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Pedidos de Patente sobre Energia Eólica - Nº 8

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1. INTRODUÇÃO

1.1 - Alerta Tecnológico

O Instituto Nacional da Propriedade Industrial (INPI) é uma Autarquia Federal, vinculada ao Ministério do Desenvolvimento, Indústria e Comércio Exterior (MDIC), responsável pela concessão de patentes, registros de desenhos industriais, registro de marcas, averbação de contratos de transferência de tecnologia, registro de programas de computador, indicações geográficas e topografias de circuito integrado.

O Centro de Disseminação da Informação Tecnológica (CEDIN), subordinado à Diretoria de Cooperação para o Desenvolvimento (DICOD), mantém um acervo com a descrição dos pedidos de patente e de registros de desenhos industriais. Uma de suas atribuições é divulgar e disseminar a utilização destas informações bibliográficas e técnicas. Para tanto, o CEDIN dispõe da Coordenação de Estudos e Programas – CEPRO, cuja incumbência é elaborar publicações fundamentadas, essencialmente, em informações extraídas de documentos de patente.

A patente é uma importante fonte formal de informação, por meio da qual se pode ter acesso a detalhes técnicos de invenções que, em alguns casos, não estão descritos em outros meios de divulgação[1] (livros, artigos técnicos etc.).

O objetivo desta publicação, de periodicidade semestral, é o de alertar sobre os depositantes mais expressivos em determinado período, os países onde o primeiro depósito foi solicitado (país de prioridade), as áreas tecnológicas mais solicitadas, e de divulgar os títulos dos pedidos de patente publicados mundialmente em determinado período, permitindo, desta forma, a atualização periódica de seu público alvo.

Um pedido de patente é constituído de uma folha de rosto, do relatório descritivo da invenção, das reivindicações (quadro reivindicatório), dos desenhos (se necessário) e do resumo. A folha de rosto contém os dados bibliográficos do pedido de patente, tais como, os nomes dos depositantes e dos inventores, as datas e os

[1] Hong, Soonwoo. **The Magic of Patent Information**, Disponível em: <http://www.wipo.int/sme/en/documents/patent_information.htm#basics>. Acesso em 10 de outubro de 2008.

números de depósito, de publicação e de prioridade do pedido, a classificação internacional, o título e o resumo da invenção, entre outros.

Os dados bibliográficos e a cópia completa do pedido de patente podem ser obtidos nas seguintes bases de patente disponíveis, gratuitamente, na internet:

1. Base Brasileira de Pedidos de Patente [2]: http://www.inpi.gov.br

2. Base do Escritório Europeu de Patentes[3] : http://worldwide.espacenet.com

3. Base do Escritório Americano de Patentes [4]: http://uspto.gov

Caso haja interesse em se conhecer o(s) depósito(s) de patente no Brasil, correspondente(s) (família do pedido de patente [5]) aos pedidos de patente estrangeiros listados no Anexo I, sugere-se uma busca de família dos pedidos de interesse. Neste caso, o Centro de Documentação do INPI – CEDIN informará os procedimentos a serem seguidos. Abaixo, seguem endereço e formas de contatar o CEDIN.

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Instituto Nacional da Propriedade Industrial – INPI

Diretoria de Cooperação para o Desenvolvimento – DICOD

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As cópias integrais dos pedidos de patente de interesse também podem ser solicitadas por meio do endereço copdocpat@inpi.gov.br ou por correio postal ao endereço anteriormente mencionado.

[2] Esta base contém somente pedidos de patente depositados e publicados no Brasil a partir de 1982
[3] Contêm pedidos de patente depositados e publicados em mais de 70 países
[4] Contêm pedidos de patente depositados ou concedidos e publicados apenas nos Estados Unidos.
[5] Uma família de patentes é a coleção de documentos de patente relacionados à mesma invenção ou a invenções correlacionadas, publicados em diferentes países. Cada documento de patente da família baseia-se, normalmente, nos dados do primeiro pedido depositado no país da prioridade. Existem diferentes estruturas de famílias de patente. Para este Alerta, o termo família de patente refere-se ao conceito de "família simples", na qual todos os documentos de patente têm em comum o número e a data da prioridade unionista (WIPO, 2008)

1.2 - Pedidos de patente sobre Energia Eólica

A conversão da energia eólica em mecânica era utilizada, inicialmente, para a moagem de grãos ou bombeamento de água, por exemplo. Atualmente, é utilizada para mover aerogeradores para produção de energia elétrica. Os aerogeradores são grandes turbinas com formato de catavento ou moinho, colocados em locais de vento intenso e que produzem energia elétrica por meio do movimento de suas pás. Podem ser utilizados isoladamente ou agrupados em parques eólicos. Se utilizados agrupadamente, tornam a produção de energia elétrica mais rentável.

Algumas tecnologias mais recentes utilizam turbovelas ou volutas verticais. Estes equipamentos capturam o vento ao passar em rotores axiais protegidos internamente e assim, eliminam os riscos de colisão das pás com objetos voadores, tais como pássaros.

Assim, objetivando fornecer informações importantes sobre o estado da técnica relacionado às tecnologias de aproveitamento da energia eólica, como suporte aos interessados em desenvolver tecnologia endógena, o INPI, por meio da Coordenação de Estudos e Programas do CEDIN, publica este alerta tecnológico com os mais recentes desenvolvimentos nesse setor, os quais foram alvo de depósitos de patente em todo o mundo.

Para a realização deste trabalho, utilizou-se o banco de dados do Escritório Europeu de Patentes. O período selecionado para pesquisa compreendeu os pedidos de patente publicados entre 01/07/2012 a 31/12/2012. A metodologia para a coleta dos documentos levou em conta as áreas da Classificação Intrernacional de Patentes, na qual foram selecionados os pedidos de patente em que pelo menos uma das classificações internacionais[6] seja **F03D – Motores Movidos a Vento**.

[6] Um documento de patente pode conter uma ou mais classificações.

2. RESULTADOS

2.1 - Mundo

A busca realizada no sistema resultou num total de 3513 documentos de patente publicados ao redor do mundo no período considerado. Um ponto importante a ser analisado diz respeito ao país da prioridade unionista do depósito, que é o país onde foi realizado o primeiro depósito. O depositante pode solicitar a prioridade de seu pedido de patente em um país diferente do de sua residência, o que não se verifica na maioria dos pedidos. Considera-se que alguns depositantes optam por não efetuar seus pedidos prioritários nos países onde residem, motivados, dentre diversos fatores, pela constatação de que outros paises apresentam mercados mais atrativos e/ou por estratégias empresariais.

Assim, a observação do número de prioridades nem sempre indica a origem da tecnologia contida nos documentos de patentes publicados, portanto, havendo necessidade, deve-se proceder a análises mais profundas para elaborar uma avaliação mais precisa do potencial de desenvolvimento tecnológico de cada país.

Os documentos identificados nas pesquisas efetuadas estão distribuídos por 55 países, cujos depósitos são designados, inicialmente, por duas letras que identificam o país de depósito (vide Anexo I, pág. 328). Além desses, há duas organizações internacionais receptoras de pedidos. A Organização Mundial da Propriedade Intelecutal (OMPI), agência da ONU, é a responsável pelos depósitos efetuados utilizando o Tratado de Cooperação em Matéria de Patentes (em inglês Patent Cooperation Treaty – PCT), sendo os mesmos designados inicialmente pela sigla WO (WIPO Organization) e o Escritório Europeu de Patentes (em inglês European Patent Office – EPO) cujos depósitos são designados inicialmente pela sigla EP (European Patent).

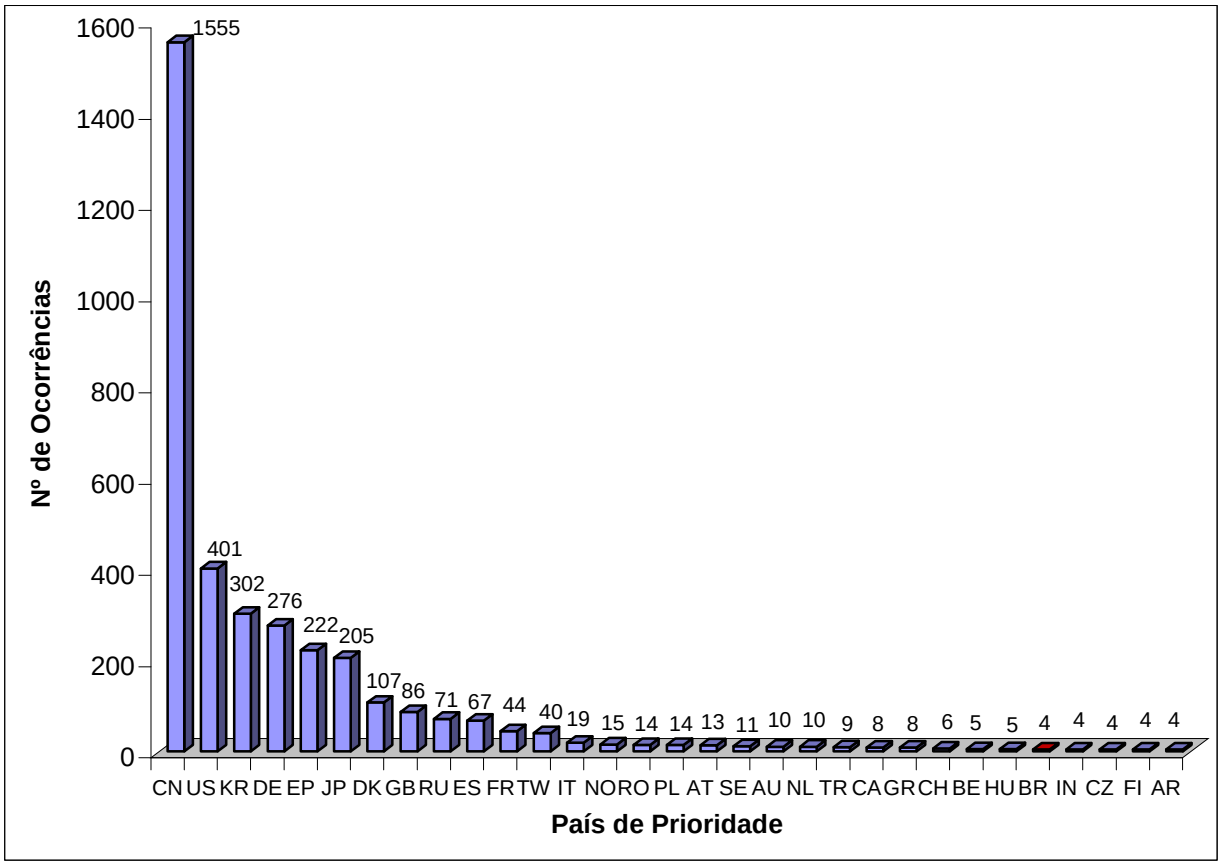
No Gráfico 1 são apresentados os países de prioridade dos documentos recuperados no período considerado, bem como o número de ocorrências em cada país. Foram encontrados 1555 documentos com prioridade chinesa. Este número representa 44,26% dos pedidos de patente publicados. Os Estados Unidos ocupam

o segundo lugar no ranking de prioridades de pedidos de patente, com um total de 401 pedidos publicados, representando 11,27% dos pedidos totais.

Os depósitos via PCT, ocupam a terceira posição do ranking, com 328 pedidos prioritários, equivalendo a 9,33% do total. O quarto lugar no ranking de prioridades é ocupado pela Coréia do Sul, com 302 pedidos, o que equivale a 8,5% do total de documentos publicados no segundo semestre de 2012.

No que diz respeito aos pedidos no Brasil, foram publicados 16 documentos com prioridade nacional, o que corresponde a vigésima oitava posição no ranking.

Gráfico 1: Países de prioridade dos documentos recuperados em nível mundial x número de ocorrências.



Fonte: Elaboração própria a partir do banco de dados do Escritório Europeu de Patentes.

Os dados referentes aos documentos de patente prioritários recuperados no levantamento, e constantes da Tabela 2, comprovam a primazia da China com 1555

pedidos de patente publicados, sendo a maior parte dos mesmos efetuados por inventores independentes. Cabe ressaltar que o total de documentos prioritários chineses representa quase quatro vezes o número de documentos prioritários publicados nos Estados Unidos no mesmo período. Também foram contabilizados na China 203 pedidos de patente com prioridade estrangeira no segundo semestre de 2012. Os Estados Unidos, que totalizaram 401 pedidos publicados com prioridade nacional, também se destacam pelo fato de que foram alvo 46 prioridades estrangeiras. O terceiro lugar é ocupado pela Coréia do Sul que totalizou 302 pedidos prioritários nacionais e também contou com 19 pedidos prioritários estrangeiros publicados no 2º semestre de 2012.

Os dados da Tabela 2 também comprovam a tendência identificada em alertas anteriores do mesmo tema, no que diz respeito a intensa concentração tecnológica no setor, refletida no número de pedidos de patente publicados, no período considerado. Tal situação pode ser constatada pelo fato de que dentre os 3513 pedidos de prioridade, os seis países que ocupam as primeiras posições (China, Estados Unidos, Coréia do Sul, Alemanha, Japão e Dinamarca) detém 81,01% do total de pedidos. Assim, os outros 49 países concentram apenas 18,9% de pedidos prioritários publicados no período.

Na tabela 1, a seguir, são identificados os principais depositantes em energia eólica, com maior número de pedidos de patente publicados, seus respectivos países de origem, e o total de pedidos publicados em cada um destes.

Tabela 1: Relação dos principais depositantes dos países com pedidos de prioridade de patente e do número de pedidos publicados no 2º semestre de 2012

Depositante	Total de Documentos
VESTAS WIND SYS AS [DK]	113
SIEMENS AG [DE]	108
GEN ELECTRIC [US]	102
MITSUBISHI HEAVY IND LTD [JP]	65
SINOVEL WIND GROUP CO LTD [CN]	51
GUODIAN UNITED POWER TECH CO [CN]	48
GUANGDONG MINGYANG WIND POWER INDUSTRY GROUP CO LTD [CN]	23
GAMESA INNOVATION & TECH SL [ES]	22
HAOZHONG XU [CN]	21
SAMSUNG HEAVY IND [KR]	21
WOBBEN ALOYS [DE]	20
LM WIND POWER AS [DK]	19
SANY ELECTRIC CO LTD [CN]	19
REPOWER SYSTEMS SE [DE]	18
ENVISION ENERGY DENMARK APS [DK]	16
HONGYI YU [CN]	14
DENGRONG ZHOU [CN]	13
NORDEX ENERGY GMBH [DE]	13
JIAN ZHOU [CN]	13
WUXI TONGCHUN NEW ENERGY TECH [CN]	12
LM GLASFIBER AS [DK]	11
WOBBEN PROPERTIES GMBH [DE]	11
ALSTOM WIND S L U [ES]	10
SSB WIND SYSTEMS GMBH & CO KG [DE]	10
UNIV NORTH CHINA ELEC POWER [CN]	10

Fonte: Elaboração própria a partir do banco de dados do Escritório Europeu de Patentes.

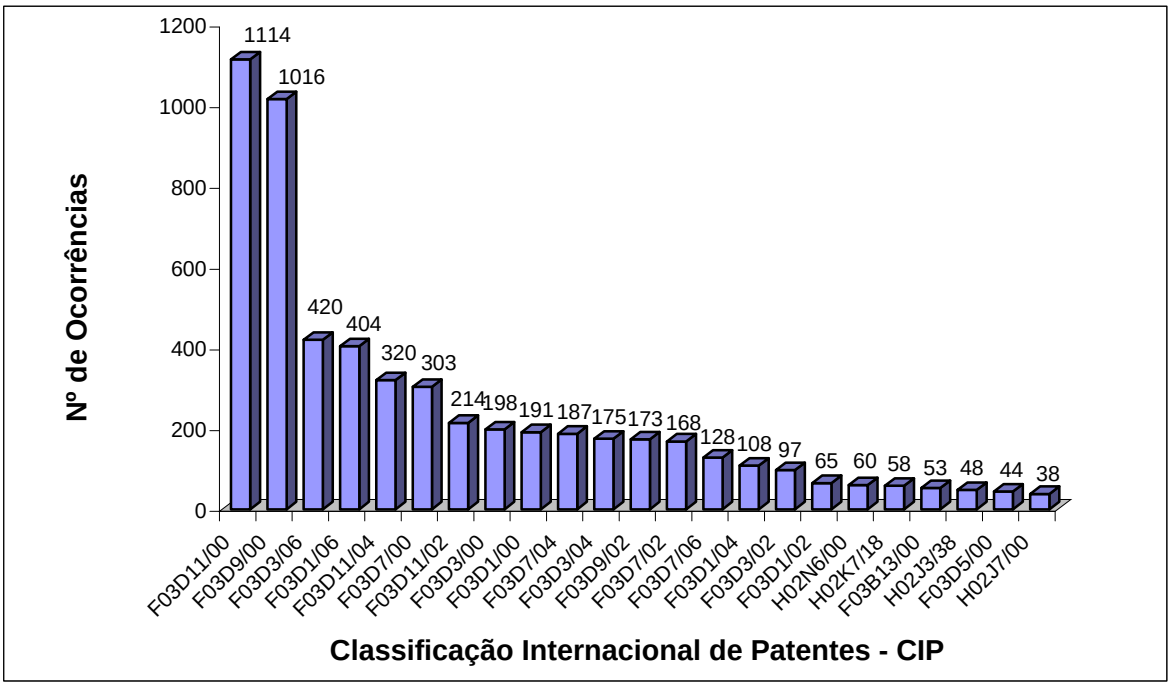
Na Tabela 1 são identificados os 25 maiores depositantes em nível mundial, no segundo semestre de 2012, tendo sido selecionados aqueles com dez ou mais depósitos publicados. Pode-se observar o predomínio dos dez depositantes chineses, que totalizam 224 depósitos publicados. Destaca-se ainda a presença de seis empresas alemãs que totalizam 180 depósitos, quatro empresas de origem dinamarquesa que somam 159 depósitos, uma empresa norte americana, com 102 depósitos, uma empresa japonesa com 65 depósitos, duas empresas espanholas com 32 depósitos e uma empresa sul coreana com 21 depósitos. Cabe ressaltar que pela primeira vez nesta série de alertas tecnológicos, a soma dos depósitos das

empresas de origem chinesa detém a liderança do ranking dos maiores depositantes.

No que diz respeito às áreas de concentração de tecnologia no presente alerta, foi verificado em quais itens da Classificação Internacional de Patentes - CIP estavam distribuídos os documentos encontrados.

O Gráfico 2, permite visualizar quais são as tecnologias relacionadas à energia eólica com maior número de incidências, descritas nos pedidos de patente publicados no segundo semestre de 2012, sendo consideradas todas as classificações com número igual ou superiror a 31 ocorrências no período.

Gráfico 2: Distribuição dos documentos na Classificação Internacional de Patentes x número de ocorrências.



Fonte: Elaboração própria a partir do banco de dados do Escritório Europeu de Patentes.

F03D - Motores Movidos a Vento

F03D11/00- Detalhes, peças ou acessórios não incluídos nos, nem pertinentes aos outros grupos desta subclasse;

F03D9/00 - Adaptações de motores a vento para uso especial; Combinações de motores a vento com aparelhos por eles acionados;

F03D3/06 – Rotores de motores a vento com o eixo de rotação sensivelmente em ângulo reto com a direção do vento;

F03D1/06 – Rotores de motores a vento com o eixo de rotação sensivelmente na direção do vento;

No que diz respeito às áreas de concentração tecnológica dos pedidos, segundo a Classificação Internacional de Patentes-CIP, foram identificados vinte e tres principais grupos e sub-grupos, sendo os que os quatro primeiros concentram 55,38% de todos os pedidos publicados. Com relação as alterações observadas, em comparação ao último levantamento, verifica-se que a alteração mais significativa ocorreu no grupo principal F03D3/00, que subiu da décima primeira para a oitava posição do ranking. Entretanto, foi mantida a maior incidência de pedidos no grupo principal F03D11/00, referente a detalhes, peças e acessórios dos motores eólicos. Cabe ressaltar que um único pedido pode conter mais de uma classificação.

2.2 - Brasil

Como pode ser identificado na Tabela 2, foram publicados no Brasil 16 depósitos sobre energia eólica no segundo semestre de 2012, sendo tres com a primeira prioridade nacional e outros treze com prioridades estrangeiras, assim distribuídos: oito pedidos com prioridade reivindicada no Escritório Europeu de Patentes, dois pedidos com prioridade japonesa, e outros três pedidos com uma única prioridade dos seguintes países; Alemanha, Taiwan e Estados Unidos.

Os três depósitos com prioridade nacional foram efetuados pelo mesmo inventor independente. Foi também identificado um único depósito no exterior com prioridade brasileira, sendo o mesmo efetuado via PCT - Tratado de Cooperação de Patentes, que é designado pela sigla (WO).

Tabela 2: Dados bibliográficos dos pedidos de patente sobre Energia Eólica, publicados no 2º semestre de 2012

(Ordenados segundo o código do país de publicação)

Obs:

1- Os depósitos efetuados pelo sistema PCT – Patent Cooperation Treaty, representados pela sigla WO – World Patent Organization, e correspondem a pedidos de prioridade de diversas nacionalidades, já que o sistema PCT atualmente é adotado por 142 países.

2- A sigla EP não representa um país, e sim a designação inicial dos depósitos efetuados com prioridade no Escritório Europeu de Patentes.

Número do Documento	Prioridade	Depositante	Classificação Internacional	Título
CN202360306U U 20120801	CN20112523622U 20111214	JIANGSU JINFENG JIATE ELECTROMECHANICAL CO LTD	F03D11/00	shaped support for cylindrical tower of new energy wind generator set
CN202326043U U 20120711	CN20112483523U 20111129	NANTONG DONGTAI NEW ENERGY EQUIPMENT CO LTD	F03D11/00	2.0 megawatt (MW) carbon fiber wind driven generator blade
CN202338452U U 20120718	CN20112483518U 20111129	NANTONG DONGTAI NEW ENERGY EQUIPMENT CO LTD	F03D11/00	2.0 MW high-rotating speed prolonged direct-drive wind driven generator blade
CN202326042U U 20120711	CN20112483501U 20111129	NANTONG DONGTAI NEW ENERGY EQUIPMENT CO LTD	F03D11/00	2.0-megawatt II-class wind filed high-rotation speed blade of direct-driving type wind driven generator
CN202338451U U 20120718	CN20112483504U 20111129	NANTONG DONGTAI NEW ENERGY EQUIPMENT CO LTD	F03D11/00	2.0MW III-grade wind field direct-driven type fan-driven generator blade
CN202560454U U 20121128	CN20122150692U 20120411	WU CHENGWEI	F03D1/02; F03D1/06; F03D11/00; G09F13/22; G09F15/00; G09F15/02	3D mobile windmill
KR101214277B B1 20121220	KR20110065433 20110701	WOO JUNG TAEK [KR]	F03D5/00; F03D3/00; F03D5/06; F03D11/04	A AERIAL WIND POWER GENERATING SYSTEM HAVING AN ELECTRIC GENERATOR ON THE GROUND
KR20120082792 A 20120724	KR20110004728 20110114	OM JAE PUNG [KR]	F03D9/02; F03D11/00	A AIR COMPRESSOR FOR WIND POWER
KR20120095265 A 20120828	KR20110015384 20110218	OM JAE PUNG [KR]	F03D9/02; A47L9/00; F16J12/00	A AIR COMPRESSOR TANK FOR GENERATE ELECTRICITY SYSTEM
CN202483802U U 20121010	CN20112503475U 20111206	SHANGHAI ELECTRIC WINDPOWER EQUIPMENT CO LTD	F03D11/00	A big trailing edge structure for wind turbine blades

Número do Documento	Prioridade	Depositante	Classificação Internacional	Título
WO2012110486 A1 20120823	DK20110070085 20110214	SE BLADES TECHNOLOGY B V [NL]; SLOTH ERIK BILLESKOV [DK]; JENSEN RASMUS [DK]; GONZALEZ ALEJANDRO GOMEZ [DK]; RECK MADS [DK]; NIELSEN THOMAS BJERTRUP [DK]; ANDERSEN PETER BJOERN [DK]	F03D1/06; F03D7/02	A BLADE FOR A WIND TURBINE AND A PRODUCTION METHOD THEREFORE
EP2527128 A2 20121128	ES20110000576 20110524	GAMESA INNOVATION & TECH SL [ES]	B29C65/50; F03D1/06; F16B11/00	A bonding method for a wind turbine multi-panel blade
EP2494197 A2 20120905	DK20090070177 20091028; US20090255688P 20091028; WO2010EP66359 20101028	VESTAS WIND SYS AS [DK]	F03D11/00	A COOLING SYSTEM FOR A WIND TURBINE
PT2016284E E 20121129	WO2006IT00343 20060510	KITE GEN RES S R L [IT]	F03D5/00; F03D3/00; F03D7/00; F03D7/06	A DEVICE FOR THE PRODUCTION OF ELECTRIC ENERGY AND PROCESS FOR THE AUTOMATIC CONTROL OF SAID DEVICE
WO2012092967 A1 20120712	WO2011EP50095 20110105	VESTAS WIND SYS AS [DK]; MOELLER HANSEN FRANK [DK]; KRISTENSEN JONAS [DK]	F03D9/00; F03D11/00; H02K5/24; H02K7/08	A DIRECT DRIVE GENERATOR
GEP20125608 B 20120810	GE2011AP12292 20110711		F03D1/02	ELECTRIC POWER INSTALLATION
KR20120081533 A 20120719	KR20110003415 20110111	OM JAE PUNG [KR]	F03D9/00; B60K16/00	A EQUIPMENT OF SUPPLY OXYGEN AND ASSIST BATTERY FOR CAR
KR20120102213 A 20120918	KR20110020201 20110308	PYEONG SAN CO LTD [KR]	F03D11/00; B65G1/00; B65G1/14; B65G1/16	A FIXTURE OF SHAFT FOR WIND-DRIVEN GENERATOR

Número do Documento	Prioridade	Depositante	Classificação Internacional	Título
NZ594974 A 20120727	EP20100180125 20100927	SIEMENS AG [DE]	B66C1/00; B66C1/10; B66C1/22; B66C1/42; B66C1/62; B66C1/68; F03D1/00; F03D1/02; F03D1/06	A frame to simultaneously lift at least two rotor blades to mount on a wind turbine hub
CN202531306U U 20121114	CN20112540530U 20111220	YANGZHOU KEGUANG TECHNOLOGY DEV CO LTD	F02M25/12; F03D9/00	A fuel-saving device capable of generating hydrogen and oxygen with wind energy of a vehicle
EP2513474 A2 20121024	WO2010GB52135 20101217; GB20090022067 20091217; GB20100005557 20100401	TRADEWIND TURBINES LTD [GB]	F03D3/06	A FURLING MECHANISM FOR A VERTICAL AXIS TURBINE
WO2012130240 A1 20121004	US201161489289P 20110524; DK20110070150 20110330	VESTAS WIND SYS AS [DK]; BITSCH MICHAEL LUNDGAARD [DK]; ANDERSEN JESPER LYKKEGAARD [DK]	F03D1/06	A HUB FOR A WIND TURBINE
EP2516845 A2 20121031	DK20090070287 20091221; US20090288617P 20091221; WO2010EP70387 20101221	VESTAS WIND SYS AS [DK]	F03D1/06	A HUB FOR A WIND TURBINE AND A METHOD FOR FABRICATING THE HUB
CN102575650 A 20120711	WO2010EP65872 20101021; DK20090070169 20091023; US20090254479P 20091023	VESTAS WIND SYS AS [DK]	F03D11/00	A lubrication system for a gear system providing emergency lubrication

Número do Documento	Prioridade	Depositante	Classificação Internacional	Título
EP2499357 A2 20120919	FI20090006161 20091109; WO2010FI50898 20101108	EASYWIND OY [FI]	F03D1/00	A METHOD AND AN APPARATUS FOR ASSEMBLING A WIND POWER PLANT
EP2481915 A1 20120801	EP20110000594 20110126	CHAPDRIVE AS [NO]	F03D7/02; F03D7/04	A method and system for connecting a wind turbine system to an electric grid
WO2012139584 A1 20121018	US201161475683P 20110415; DK20110070183 20110415	VESTAS WIND SYS AS [DK]; STEVENS ROBERT [DK]	F03D7/02	A METHOD FOR ADAPTING WIND TURBINE POWER PRODUCTION TO A POWER DEMAND
CN102791608 A 20121121	WO2011DK50012 20110118; DK20100070017 20100119	AH IND PROJECTS APS	B66C13/06; B66D1/50; F03D1/06; F03D11/04	A method for controlling the orientation of a load suspended from a bearing wire about said bearing wire and a winch arrangement
WO2012097819 A1 20120726	US201161435953P 20110125; DK20110070031 20110120	VESTAS WIND SYS AS [DK]; CAO SHU YU [SG]; LI BING [SG]; TRIPATHI ANSHUMAN [SG]; THIA HOCK HENG [SG]; MOHAMED ARIF RASOOL BEEVI D-O [SG]; ANG KHENG HONG [SG]	F03D1/00; F03D11/00; G05B23/02	A METHOD FOR DIAGNOSTIC MONITORING OF A WIND TURBINE GENERATOR SYSTEM
CN102782311 A 20121114	WO2011EP00176 20110118; EP20100155963 20100309	LM GLASFIBER AS [DK]	F03D1/00; F03D11/04	A method of craneless mounting or demounting of a wind turbine blade
CN102713263 A 20121003	WO2011EP00422 20110131; EP20100000974 20100201	LM GLASSFIBER AS [DK]	F03D1/06; F03D7/02	A method of in situ calibrating load sensors of a wind turbine blade
EG25953 A 20121112	9	NAT RES CT [EG]	B01J21/06; B01J35/08; B01J37/12	A method to prepare photocatalytic spheres depending on polymeric materials

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NL2006936C C 20121218	NL20112006936 20110615	UNIV DELFT TECH	B32B3/12; B63H1/36; B64C3/46; F03D1/06	A MORPHING STRUCTURE AND METHOD FOR MORPHING A STRUCTURE.
KR20120113384 A 20121015	KR20110031069 20110405	PARK CHANG HWAN [KR]	F03D5/00; F03D11/00; F03D11/04	A MULTISTAGE LEVITATIONAL BLADE WIND POWER GENERATOR
WO2012147108 A2 20121101	IN2011CH01466 20110428	SRIKANTH SEELIN N [IN]	F03D3/04; F03D3/02; F03D11/04	A PORTABLE WIND POWER GENERATOR SYSTEM WITH ADJUSTABLE VANES USING WIND DRAFT FROM VEHICULAR TRAFFIC
CN102642617 A 20120822	CN20111041334 20110221	YUEPING ZHOU	B64C33/02; F03B13/00; F03D9/00	A reciprocating flapping wing fluid energy conversion device
EP2516846 A2 20121031	DK20090070286 20091221; US20090288623P 20091221; WO2010EP70388 20101221	VESTAS WIND SYS AS [DK]	F03D1/06	A REINFORCED HUB FOR A WIND TURBINE
GB2488592 A 20120905	GB20110003694 20110303	RICARDO UK LTD [GB]	F16C19/34; F03D11/00	A rotary mechanism for a rolling element bearing
KR20120088958 A 20120809	KR20110009968 20110201	ENERGYN INC [KR]	F03D3/06; F03D11/00	A ROTOR FOR WIND POWER GENERATOR
EP2496831 A2 20120912	DK20090070185 20091102; US20090257221P 20091102; WO2010EP66614 20101102	VESTAS WIND SYS AS [DK]	F03D1/00; E04G21/32	A SAFETY BLANKET FOR A TOWER OF A WIND POWER INSTALLATION
KR101190167B B1 20121012	KR20120064104 20120615	GECHO [KR]	F21S9/04; E01F9/04; F03D9/00	A SAFETY INDICATING LAMP USING WIND FORCE
WO2012113403 A1 20120830	US201161446165P 20110224; DK20110070100 20110224	VESTAS WIND SYS AS [DK]; HAMMERUM KELD [DK]; THOEGERSEN MORTEN [DK]	F03D7/02; F03D11/00	A SAFETY SYSTEM FOR A WIND TURBINE

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DK201170319 A 20121222	DK20110070319 20110621	LOGIMA APS [DK]	F03D11/04; B63B35/00	A self-propelled semi-submersible offshore wind farm installation vessel with a large crane
TW201226699 A 20120701	TW20100144343 20101217	CHANG TING-YU [TW]	F03D9/00	A small scale wind power generating system
KR101189681B B1 20121011	KR20120080563 20120724	SAMKANG M & T CO LTD [KR]	F03D11/00; E02D27/52; E04H12/00; F03D11/04	A SUPPORT APPARATUS FOR SEA WIND POWER GENERATOR
NO332202B B1 20120723	NO20110000329 20110302	HAMMERFEST STROM AS [NO]	F03D11/04; F03B17/00	A SYSTEM FOR INSTALLING A NACELLE FOR AN AXIAL TURBINE ON A SUBMERGED FOUNDATION, A NACELLE, AND SADDLE FOR INSTALLING THE NACELLE
NZ590012 A 20120727	EP20090015864 20091222	SIEMENS AG [DE]	F03D11/00; F03D7/04; G01P3/42; G01P15/00; G06Q99/00; G08B1/08	A system for triggering an emergency system of a wind turbine to stop the wind turbine
KR20120096224 A 20120830	KR20110015500 20110222	DAEGU CITY TALSO DISTR [KR]	G08G1/09; F03D9/00	A SYSTEM OF DISPLAYING TRAFFIC-GUIDE MESSAGE
EP2531674 A1 20121212	DK20100070284 20100622; DK20100070030 20100201; WO2011DK50022 20110131	CONELTO APS [DK]	E04H12/12; B66C1/66; E04H12/16; E04H12/22; F03D11/04	A TOWER CONSTRUCTION AND A METHOD FOR ERECTING THE TOWER CONSTRUCTION
DK177238B B1 20120730	DK20110070118 20110311	ENVISION ENERGY DENMARK APS [DK]	B60P3/40; F03D1/00	A Transportation Method for a Wind Turbine Blade
WO2012150128 A2 20121108	GB20110007329 20110504	ROLLS ROYCE PLC [GB]; CHIR ADAM [GB]	F03B3/10	A TURBINE ARRAY AND A METHOD OF CONTROLLING A TURBINE ARRAY DURING A LOSS-OF-GRID EVENT

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AU2011252767 A1 20121206	AU20100902065 20100513; WO2011AU00566 20110513; AU20110252767 20110513	RESA INTELLECTUAL PROPERTY PTY LTD	F03D1/06; F03B3/08; F03B3/12; F03D11/00	A turbine blade assembly
CN202441548U U 20120919	CN20112522023U 20111214	DENGRONG ZHOU; JIAN ZHOU	F03D11/00	A turbine turbofan structure
KR20120095267 A 20120828	KR20110015386 20110218	OM JAE PUNG [KR]	A47L5/12; F03D9/00; F03D9/02	A VACUUM CLEANER FOR AIR PRESS POWER
WO2012163635 A1 20121206	GB20110009123 20110527	STEVEN IAIN [CN]; LINKE TERENCE [BG]; DAVIES JOHN [CN]	B63B35/00; F03D1/00	A VESSEL AND A METHOD FOR INSTALLING OR REPAIRING AN OFFSHORE STRUCTURE
WO2012163359 A1 20121206	US201161491344P 20110531; DK20110070282 20110603	VESTAS WIND SYS AS [DK]; KJAER MARTIN ANSBJERG [DK]; ZAIB ALI [DK]; MIRANDA ERIK CARL LEHNSKOV [DK]	F03D7/04; F03D7/02	A WIND FARM AND A METHOD OF OPERATING A WIND FARM
KR101191861B B1 20121016	KR20120012112 20120207	JANG TAK GYUN [KR]	F03D3/06; F03D11/00; F03D11/02	A WIND POWER APPARATUS
AU2011274315 A1 20121206	AU20100902917 20100630; WO2011AU00811 20110630; AU20110274315 20110630	WOJNAR SEBASTIAN	F03D3/04; F03D1/04	A wind turbine air flow device
CN102606397 A 20120725	DK20110000043 20110124; US201161435415P 20110124	VESTAS WIND SYS AS [DK]	F03D7/04; F03D9/02	A wind turbine and a method for powering one or more hydraulic pitch actuators

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CN102648346 A 20120822	WO2010EP66139 20101026; DK20090070174 20091027; US20090255292P 20091027	VESTAS WIND SYSTEMS AKTIESELSKAB	F03D11/00; F03D11/04	A wind turbine and a mounting method thereof
CA2775559 A1 20121029	DK20110070210 20110429	ENVISION ENERGY DENMARK APS [DK]	F03D11/00; F03D1/06	A WIND TURBINE AND AN ASSOCIATED CONTROL METHOD
CA2766867 A1 20120804	DK20110070066 20110204	ENVISION ENERGY DENMARK APS [DK]	F03D7/02; F03D1/06	A WIND TURBINE AND AN ASSOCIATED CONTROL METHOD
DK177292B B1 20121008	DK20110070342 20110630	ENVISION ENERGY DENMARK APS [DK]	F03D7/04	A wind turbine and an associated yaw control method
CA2776057 A1 20121106	DK20110070224 20110506	ENVISION ENERGY DENMARK APS [DK]	F03D7/00; F03D1/00; F03D7/04	A WIND TURBINE AND ASSOCIATED CONTROL METHOD
DK177278B B1 20120917	DK20110070247 20110519	ENVISION ENERGY DENMARK APS [DK]	F03D7/02	A wind turbine and associated control method
CA2776216 A1 20121119	DK20110070248 20110519	ENVISION ENERGY DENMARK APS [DK]	F03D11/00; F03D1/06; F03D7/02	A WIND TURBINE AND WIND TURBINE BLADE
CA2775557 A1 20121029	DK20110070209 20110429	ENVISION ENERGY DENMARK APS [DK]	F03D11/00; F03D1/06	A WIND TURBINE AND WIND TURBINE BLADE
WO2012103894 A2 20120809	DK20110070065 20110204; US201161439585P 20110204	VESTAS WIND SYS AS [DK]; ROSENVARD PAW [DK]	F03D1/02	A WIND TURBINE ARRANGEMENT WITH A MAIN WIND TURBINE AND AT LEAST ONE SECONDARY WIND TURBINE
CA2778548 A1 20121217	DK20110070309 20110617	ENVISION ENERGY DENMARK APS [DK]	F03D1/06; F01D7/00	A WIND TURBINE BLADE
CA2772211 A1 20120922	DK20120070127 20120320; DK20110070133 20110322	ENVISION ENERGY DENMARK APS [DK]	F03D1/06	A WIND TURBINE BLADE
DK177296B B1 20121015	DK20110070303 20110615	ENVISION ENERGY DENMARK APS [DK]	F03D1/06; F03D7/02	A Wind Turbine Blade

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DK177257B B1 20120820	DK20110070133 20110322	ENVISION ENERGY DENMARK APS [DK]	F03D11/00	A Wind Turbine Blade
DK177291B B1 20121008	DK20110000155 20110308	SUZLON BLADES TECHNOLOGY B V [NL]	B29C70/02; F03D1/06	A wind turbine blade
DK201170097 A 20120824	DK20110070097 20110223	ENVISION ENERGY DENMARK APS [DK]	F03D1/06	A wind turbine blade
DK177305B B1 20121112	DK20110070096 20110223	ENVISION ENERGY DENMARK APS [DK]	F03D1/06	A wind turbine blade
EP2481914 A1 20120801	EP20110152678 20110131	VESTAS WIND SYS AS [DK]	F03D1/06	A wind turbine blade and a method of manufacturing thereof
WO2012140058 A2 20121018	EP20110161904 20110411; EP20110161903 20110411	LM WIND POWER AS [DK]; DAHL MARTIN [DE]; MORTENSEN BJARNE KRAB [DK]; HORNBLOW BENJAMIN [DK]	F03D1/06; B29C65/48; B29C65/56; F03D1/00; F03D11/00	A WIND TURBINE BLADE COMPRISING RESISTIVE HEATING MEANS
WO2012103891 A2 20120809	DK20110070059 20110202	VESTAS WIND SYS AS [DK]; DAYNES STEPHEN [GB]; WEAVER PAUL [GB]	F03D1/06	A WIND TURBINE BLADE HAVING A FLAP
EP2524133 A1 20121121	WO2010SE50031 20100114	SAAB AB [SE]	F03D1/06; B29C70/14; B82B1/00; F03D11/00	A WIND TURBINE BLADE HAVING AN OUTER SURFACE WITH IMPROVED PROPERTIES
DK201270075 A 20121129	DK20120070075 20120215	VESTAS WIND SYS AS [DK]	F03D1/06; B32B1/00; C09J7/00	A Wind Turbine Blade Protection System
GB2488789 A 20120912	GB20110003861 20110307	VESTAS WIND SYS AS [DK]	G01M5/00; F03D11/00; G01N3/36; G01N3/38	A wind turbine blade tester
WO2012097825 A1 20120726	US201161434890P 20110121; DK20110070032 20110121	VESTAS WIND SYS AS [DK]; LUO XUE WEN [SG]; TUMABCAO MICHAEL CASEM [SG]; PARKHOU MASOUD [DK]	F03D11/00; H02H3/16; H02M1/32; H03D9/00	A WIND TURBINE FAULT DETECTION CIRCUIT AND METHOD
DK201170533 A 20121008	DK20110070533 20110927	VESTAS WIND SYS AS [DK]	H02H7/122; F03D7/00; H02H3/087	A wind turbine generator

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AU2012100696 A4 20120719	AU20110901781 20110512; AU20120100696 20120513	OVCHARENKO VIKTOR	H02P9/04; F03D1/00; F03D3/00; F03D11/00	A wind turbine generator assembly (device)
CN102628420 A 20120808	DK20110070067 20110207; US201161440054P 20110207	VESTAS WIND SYS AS [DK]	F03D1/00; F03D7/02; F03D9/00	A wind turbine generator with a lifting device
WO2012092965 A1 20120712	WO2011EP50083 20110105	VESTAS WIND SYS AS [DK]; STAGHOEJ MICHAEL [DK]; LARSEN GERNER [DK]; OLSEN NIELS CHRISTIAN [DK]; HANSEN FRANK MOELLER [DK]	F03D11/00; F03D11/04; H02K7/18	A WIND TURBINE GENERATOR WITH A STATOR SUPPORT STRUCTURE
WO2012092963 A1 20120712	WO2011EP50081 20110105	VESTAS WIND SYS AS [DK]; STAGHOEJ MICHAEL [DK]; LARSEN GERNER [DK]; OLSEN NIELS CHRISTIAN [DK]; HANSEN FRANK MOELLER [DK]; WADEHN JOERG [DK]	F03D9/00; F03D11/00; F16C32/06	A WIND TURBINE GENERATOR WITH FLUID FILM BEARING UNITS
NZ582889 A 20121130	AU20070903448 20070627; WO2008AU00951 20080627	GROCON INNOVATIONS PTY LTD	F03D3/00; F03D3/04; F03D11/00	A WIND TURBINE HAVING AN AIRFLOW DEFLECTOR
EP2472103 A2 20120704	US201061427485P 20101228; DK20110070011 20110111	VESTAS WIND SYS AS [DK]	F03D1/00	A wind turbine maintenance system and a method of maintenance therein

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CN102686878 A 20120919	WO2010EP68642 20101201; DK20090070237 20091201; US20090265546P 20091201	VESTAS WIND SYS AS [DK]	F03D11/00	A wind turbine nacelle comprising a heat exchanger assembly
CN102782505 A 20121114	WO2011DK50028 20110203; GB20100001855 20100204; US20100301451P 20100204	VESTAS WIND SYS AS [DK]	G01P5/20; F03D11/00; G01P5/26; G01P13/00; G01P13/04	A wind turbine optical wind sensor
WO2012149940 A1 20121108	DK20110070219 20110504; US201161482627P 20110505	VESTAS WIND SYS AS [DK]; OLESEN IB SVEND [DK]	G01P5/20; F03D7/02; G01P5/26; G01P13/04	A WIND TURBINE OPTICAL WIND SENSOR
WO2012164305 A1 20121206	GB20110009412 20110603	BLADE DYNAMICS LTD [GB]; HAYDEN PAUL TREVOR [GB]; WHILEY DAVID ANTHONY [GB]	F03D1/06	A WIND TURBINE ROTOR
EP2526287 A2 20121128	US20100297290P 20100122; DK20100070019 20100121; WO2011DK50015 20110119	VESTAS WIND SYS AS [DK]	F03D1/06	A WIND TURBINE ROTOR BLADE HAVING A BUCKLING TRAILING EDGE
WO2012146447 A1 20121101	GB20110007205 20110428	INNOVENTUM AB [SE]; HARRYSON SIGVALD [SE]; MATTSSON JOHAN [SE]; HASSELQVIST FREDRIK [SE]; TOERNQVIST FREDRIK [SE]	E04H12/04; E04H12/18; E04H12/34; F03D11/04	A WIND TURBINE TOWER MADE OF WOOD AND A METHOD OF ERECTION THEREOF

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EP2492503 A1 20120829	EP20110156047 20110225	SIEMENS AG [DE]	F03D9/00; F03D9/02	A wind turbine with a generator
EP2492502 A1 20120829	EP20110156045 20110225	SIEMENS AG [DE]	F03D9/00	A wind turbine with a generator
EP2481917 A1 20120801	EP20110000596 20110126	CHAPDRIVE AS [NO]	F03D7/02; F03D7/04	A wind turbine with hydrostatic transmission and lvrt control
CN202500722U U 20121024	CN20122045614U 20120208	PENG LU	F03D9/00; F03D1/02; F03D1/04; F03D1/06; H02K7/18	A wind-driven generator
WO2012168747 A1 20121213	WO2011IB01265 20110608	SINGH DIVYARAJ [IN]	F03D1/02; F03D1/06	A WINDMILL
KR20120082186 A 20120723	KR20110003548 20110113	CHO YOUNG HEE [KR]	F03D3/00; F03D7/06; F03D11/00; F03D11/02	A WIND-POWER GENERATOR
CN102792016 A 20121121	WO2011JP55467 20110309; JP20100056193 20100312; JP20110046247 20110303	NTN TOYO BEARING CO LTD [JP]	F03D11/00; F03D11/02	Abrasion detection device, wind power generator equipped therewith, and abrasion detection method
CN102628422 A 20120808	DK20110070256 20110524; US201113021993 20110207	VESTAS WIND SYS AS [DK]	F03D1/00	Access apparatus for a wind turbine and method of using same
CN102734080 A 20121017	EP20110162609 20110415	SIEMENS AG [DE]	F03D11/00	Access means for an electrical machine
US2012235409 A1 20120920	US201113048599 20110315	VESTAS WIND SYS AS [DK]	F03D9/02	ACCURATE ESTIMATION OF THE CAPACITY AND STATE OF CHARGE OF AN ENERGY STORAGE SYSTEM USED IN WIND FARMS
KR20120102837 A 20120919	KR20110020680 20110309	INHA IND PARTNERSHIP INST [KR]	F03D11/00; F03B3/12; F03B13/12; F03D1/06	ACTIVE CONFIGURATION CHANGING BLADE

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WO2012166270 A1 20121206	US201113118812 20110531	CONVERTEAM TECHNOLOGY LTD [GB]; MCCOY TIMOTHY J [US]	F03D11/04	ACTIVE CONTROL SYSTEM FOR FLOATING OFFSHORE WIND TURBINE PLATFORMS
EP2482418 A1 20120801	EP20110152893 20110201	SIEMENS AG [DE]	H02J3/24; F03D9/00; H02J3/01; H02J3/38; H02M1/12; H02M1/44	Active desynchronization of switching converters
CN102709939 A 20121003	CN20121160289 20120522	CHINA ELECTRIC POWER RES INST	H02J3/38; F03D7/00	Active power control method of wind power station for improving power generation efficiency of wind power station
CN102538053 A 20120704	CN20121040484 20120222	UNIV JIAOTONG SOUTHWEST	F24D12/02; F03D9/02	Active solar energy and wind energy combined heating system
CN102562462 A 20120711	CN20121038056 20120220	UNIV HENAN SCIENCE & TECH	F03D7/06; F03D3/06	Active stall adjusting device of high-power three-halberd perpendicular shaft wind wheel
CN202441543U U 20120919	CN20122054330U 20120220	UNIV HENAN SCIENCE & TECH	F03D7/06; F03D3/06	Active stall regulation device for high-power three-halberd vertical axis wind turbine
CN202431447U U 20120912	CN20112572226U 20111231	GONGDONG KEWANG POWER EQUIPMENT CO LTD	F03D9/00; F03D1/00; F03D1/04; F03D7/04	Active wind-collecting power generation system
DK201270045 A 20120729	US201113015693 20110128	GEN ELECTRIC [US]	F03D1/06	Actuatable surface features for wind turbine rotor blades
DK201270043 A 20120729	US201113015716 20110128	GEN ELECTRIC [US]	F03D1/06	Actuatable surface features for wind turbine rotor blades
ES2391863T T3 20121130	DE200810040393 20080714; WO2009EP58890 20090713	AUFLEGER MARKUS [DE]; AUFLEGER MARKUS [DE]	F03B13/06; F03D9/02	Acumulador hidrßulico de energÝa de gran capacidad
WO2012103599 A1 20120809	BA20110002836 20110204	MUFTIC OMER [BA]; MUFTIC DZENAN [BA]	F03D1/06; F03D3/06	ADAPTABLE ROTOR WITH ELECTRIC GENERATOR
CN102748226 A 20121024	CN20121195655 20120614	JIANGSU JUYUAN WIND POWER TECHNOLOGY CO LTD	F03D9/00; F03D9/02; F03D11/02	Adjustable air pressure energy storage power generation device

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CN202391649U U 20120822	CN20112423222U 20111031	YIMIN MA	F03D7/00; F03D11/00	Adjustable blade of wind-power generator
US2012301273 A1 20121129	US201113114571 20110524	JUSTAK JOHN F [US]	F03D7/02; F01D9/04	ADJUSTABLE EXHAUST APPARATUS FOR A RAM AIR TURBINE GENERATING SYSTEM
US2012243993 A1 20120927	US201113071568 20110325	FRONTIER WIND LLC [US]	F03D11/00; G01P5/14	Adjustable Height Pressure Sensing Port
CN202300856U U 20120704	CN20112425862U 20111031	JIANGSU XINGMALI TECHNOLOGY CO LTD	F03D9/00; F03D7/00; H02N15/00	Adjustable maglev vane wind driven generator
CN202483793U U 20121010	CN20122106444U 20120320	UNIV SUZHOU VOCATIONAL	F03D7/00; F03D9/00	Adjustable wind power generation device
TW201233896 A 20120816	DE201010052272 20101123	WOBBEN ALOYS [DE]	F03D11/00	Adjusting device for adjusting a rotor blade pitch angle of a wind power installation
CN202381269U U 20120815	CN20112456512U 20111117	CHINA MCC17 GROUP CO LTD	F03D11/04	Adjusting device of mounting levelness of basic ring of wind driven generator
ES1077855U U 20121019	ES20120000863U 20120919	CORTES REKALDE JUAN LUIS [ES]	F03D3/00	Aeorgenerador portßtil
KR20120087661 A 20120807	KR20110009002 20110128	LG ELECTRONICS INC [KR]	F03D3/04; F03D11/00	AERO GENEARTING SYSTEM
GEU20121733Y Y 20120810	GE2010AU12008U 20101118		F03D1/00	ELECTRIC POWER INSTALLATION FOR RAILROAD TUNNELS
CN102720642 A 20121010	CN20121224481 20120629	ZHIMING LI	F03D9/02; F03D11/04; F04D25/08; H02J7/00	Aerodynamic power generation device
ES2390322 A1 20121108	ES20100001426 20101108	MUSIAL KRZYSZTOF [PL]	B60L8/00; F03D9/00	AEROGENERADOR DE BAJO IMPACTO AERODINAMICO PARA USO EN VEHICULOS ELECTRICOS O HIBRIDOS.
ES1077837U U 20121016	ES20120000722U 20120723	ORTEGA CASASNOVAS JULIO [ES]	F03D1/00	Aerogenerador elÚctrico
KR20120105937 A 20120926	KR20110023678 20110317	LEE JOO SANG [KR]	F03D3/04; F03D11/00	AEROGENERATOR

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KR101171263B B1 20120806	KR20110013020 20110214	AJOU UNIV IND ACAD COOP FOUND [KR]	F03D5/00; F03D1/04; F03D7/00; F03D11/00	AEROGENERATOR
KR101216308B B1 20121228	KR20120038215 20120413	INDUSTRY ACADEMIC COOPERATION FOUNDATION KUNSAN NAT UNIVERSITY [KR]	F03D1/06; F03D3/06; F03D11/00	AEROGENERATOR BLADE OF ROOT AIRFOIL
KR101216252B B1 20121228	KR20120038213 20120413	INDUSTRY ACADEMIC COOPERATION FOUNDATION KUNSAN NAT UNIVERSITY [KR]	F03D1/06; F03D3/06; F03D11/00	AEROGENERATOR BLADE OF TIP AIRFOIL
CN202469234U U 20121003	CN20112442202U 20111109	BEIJING JINFENG KECHUANG WIND POWER EQUIPMENT CO LTD	F16L3/06; F03D11/00	Aerogenerator cable transition apparatus
JP4995357B1 B1 20120808	WO2011JP58647 20110405; WO2011JP68284 20110810; WO2011JP71673 20110922; JP20120503813 20110922		F03D9/00; F03D11/00	POWER GENERATING APPARATUS OF RENEWABLE ENERGY TYPE
KR101141090B B1 20120712	WO2010JP69336 20101029		F03D7/00; F03D11/00	CONTROL DEVICE FOR WIND POWER GENERATOR, WIND FARM, AND CONTROL METHOD OF WIND POWER GENERATOR
KR101199459B B1 20121109	KR20120006055 20120119		F03D5/02; F03D7/00; F03D9/00	Wind Turbine
ITPO20110012 A1 20121221	IT2011PO00012 20110620	EN ECO ENERGY FOR ECOLOGY S R L	F03D3/005; F03D3/061	AEROGENERATORE PERFEZIONATO AD ASSE VERTICALE
CN102732904 A 20121017	CN20111092672 20110413	JINTANG LIN	C25B1/04; F03D9/00	Aerological lift balloon array windmill power generation hydrogen equipment

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ES2391741 A1 20121129	ES20120000979 20120928	UNIV LA RIOJA [ES]	F03D3/00; F03D3/04	Aeroturbina de eje vertical de arrastre con admisi¾n variable
ES2392237 A1 20121205	ES20100000493 20100416	CALERO GOMEZ VICTOR JULIAN [ES]	F03D3/06	AEROTURBINA DE EJE VERTICAL MEJORADA.
ES2391969 A1 20121203	ES20100000144 20100208	CALERO GOMEZ VICTOR JULIAN [ES]	F03D3/06	AEROTURBINA DE EJE VERTICAL.
EP2525088 A1 20121121	EP20110166240 20110516	SIEMENS AG [DE]	F03D11/00; F24D19/08	Air bleeding arrangement
CN102758733 A 20121031	CN20121216839 20120628	UNIV HUAZHONG SCIENCE TECH	F03D9/00; F03G6/04	Air channel device for chimney air draft equipment
JP2012132429 A 20120712	JP20100267325 20101130; JP20110173858 20110809	DAIKIN IND LTD	F03B17/02; F03D9/00	AIR COMPRESSION UNIT, SOLAR LIGHT TRACKING SYSTEM, AND WATER SUPPLY SYSTEM
CN102538096 A 20120704	CN20121010739 20120116	ANRAN ZHANG	F24F5/00; F03D9/00; F03G7/04	Air conditioner with function of power generation
CN102536674 A 20120704	CN20121036792 20120217	GENFU WANG	F03D9/00; F03D1/00; F03D3/00	Air conditioning air exhaust wind power generation device
US2012187685 A1 20120726	US201113011935 20110124	AMIN JOSEPH [US]; NETZEL SR ROBERT J [US]; DENST SHELDON [US]	F03D9/02	AIR DRIVEN ELECTRIC GENERATOR FOR CHARGING A BATTERY
GB2488394 A 20120829	GB20110017154 20111005	STENFALT PATRICK VERNON [GB]; SIMON PATRICK SENFALT [GB]	F03D1/04; F01D1/36; F03D3/04; F03D9/02	Air driven Tesla turbine with Halbach array generator
RU2460901 C1 20120910	RU20110111016 20110323	OOO AEHROSTART [RU]	F03D11/00	AIR PROPELLER OF WIND-DRIVEN POWER PLANT WITH BLADES OF VARIABLE GEOMETRY
CZ24009U U1 20120704	CZ20120026104U 20120523	FROLIK JIRI [CZ]	F03D3/00	Air turbine with moving blades and vertical axis of rotation
CN202468167U U 20121003	CN20122028059U 20120123	WENJUN LI	F03D9/00	Air velocity generator

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MX2012000776 A 20121126	EP20110167663 20110526	INT AUTOMOTIVE COMPONENTS [DE]	F03D7/02	AIRBAG COVER, IN PARTICULAR FOR AIRBAGS IN A MOTOR VEHICLE AND METHOD FOR PRODUCING SAME.
KR101167857B B1 20120723	KR20110114313 20111104	CTK CO LTD [KR]	F03D5/06; F03D7/00; F03D11/00	AIRBORNE WIND POWER GENERATING SYSTEM
WO2012171105 A1 20121220	US201161520807P 20110615; US201161575120P 20110816	C E L ENERGY RECUPERATION INC [CA]; LUSSIER CHARLES [CA]	G01M15/14; B64F5/00; F01K27/00; F02G5/02; F03D9/00	AIRCRAFT ENGINE TEST CELL COMPRISING AN ENERGY RECUPERATION SYSTEM AND METHOD OF RECUPERATING ENERGY FROM THE AIRCRAFT ENGINE
CN102795340 A 20121128	CN20121284169 20120812	XUYANG ZHAO	B64C33/02; B64D27/24; F03B13/00; F03D9/00	Aircraft, hydrodynamic force generator and oars
CN202451369U U 20120926	CN20122019007U 20120112	JIFU QI	F03D9/00; F03D1/04	Airflow energy accumulation power generation device
JP2012162072 A 20120830	US20100968473 20101215	BOEING CO	B29C70/06; B64F5/00; F03D11/00	AIRFOIL MANUFACTURING SYSTEM
KR20120136198 A 20121218	KR20110055270 20110608	SAMSUNG HEAVY IND [KR]	F03D11/00; F03D1/04	AIRSTREAM RISING DEVICE FOR WIND POWER GENERATOR
ES2393123T T3 20121218	DE200610009127 20060224; WO2007EP01594 20070223	REPOWER SYSTEMS AG [DE]; REPOWER SYSTEMS SE [DE]	F03D7/04; H02H3/18; H02M1/32	Alimentaci¾n de energÝa para el dispositivo de regulaci¾n de las aspas de una instalaci¾n de energÝa e¾lica
CN102634907 A 20120815	CN20121135712 20120504	CHANGZHOU TIANMA GROUP CO LTD	D03D15/00; C03C25/32; F03D11/00	Alkali-free glass fiber machine-woven one-way cloth for wind power generation blade and preparation method for alkali-free glass fiber machine-woven one-way cloth

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KR101210847B B1 20121211	KR20120075627 20120711	PUSAN NAT UNIV IND COOP FOUND [KR]	F16F15/02; F03D11/04; F16F15/023	ALL-DIRECTIONAL TUNED LIQUID DAMPER AND FLOATING-TYPE OFFSHORE WIND POWER GENERATION SYSTEM WITH ALL DIRECTIONAL TUNED LIQUID DAMPER
CN102606392 A 20120725	CN20111024955 20110124	CHUANMING YING	F03D3/02	All-weather and all-terrain diffusion and ejection type breeze power generator
CN102606402 A 20120725	CN20111025950 20110125	FENGDE LIU	F03D9/00; F03D1/00; F03D7/02; H02K7/10	All-weather wind power generator
CN102748235 A 20121024	CN20121271241 20120731	DAQING PERMANENT MAGNETIC MOTOR MFG CO LTD	F03D9/00; F03D3/06; F03D11/00	All-wind-direction combined multi-power permanent magnetic wind power generator
WO2012171578 A2 20121220	WO2011EP60112 20110617	ABB TECHNOLOGY [CH]; VON GRUENBERG HUBERTUS [CH]; TERWIESCH PETER [CH]	F03D1/00	ALTERNATIVE MECHANICAL AND ELECTRICAL CONCEPT FOR OFFSHORE WIND FARMS
US2012189449 A1 20120726	US20110931037 20110124	MIGLER BERNARD [US]	F03D11/00	Alternative sail restraints for Migler's vertical axis wind turbine
KR101203675B B1 20121121	KR20120038135 20120412		F03D9/00; F03B13/00; F03B17/00	WIND POWER GENERATOR USING SEWAGE WATER TREATMENT FACILITY WHICH INCLUDES USE OF AIR
CN102635517 A 20120815	CN20121155631 20120519	LIQING SUN	F03D11/02; F03D9/00	Amplification power supply device of wind driven generator
RO127908 A2 20121030	RO20110000375 20110420	LACEANU VASILE [RO]	F03D1/04; F03D5/04	AMPLIFYING WIND COLLECTOR
EP2504153 A2 20121003	GB20090020749 20091126; WO2010GB02189 20101126	BLADE DYNAMICS LTD [GB]	B29C65/54; B29C65/78; F03D1/06	AN AERODYNAMIC FAIRING FOR A WIND TURBINE AND A METHOD OF CONNECTING ADJACENT PARTS OF SUCH A FAIRING
KR101206203B B1 20121128	KR20120032141 20120329		F03D3/00; F03D3/02; F03D11/02	WIND POWER GENERATOR

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KR20120082505 A 20120724	KR20110003782 20110114	KIM CHUN SIK [KR]	F03D1/04; F03D1/02	AN AEROGENERATOR WITH AT LEAST TWO GENERATORS
KR20120105664 A 20120926	KR20110023235 20110316	WHASHIN ENERGY CO LTD [KR]; KOH JAE WOOK [KR]	F03D1/06; F03D11/00	AN APPARATUS FOR FOLDING BLADES OF WIND POWER GENERATOR
GB2489897 A 20121010	NO20100000154 20100201; WO2011NO00038 20110201	VELUND DAG [NO]	F03D11/04; F03D1/00	An arrangement and a method in connection with a floating wind turbine
NZ589913 A 20120727	DE200910058595 20091217	SIEMENS AG [DE]	F03D1/06; F01D5/12; F03D11/00; G01B7/30	An arrangement to detect deformation of a wind turbine blade using a radio transmitter and antenna array
CN202529799U U 20121114	CN20112510168U 20111209	SHANGHAI LIFENG ENERGY TECHNOLOGY CO LTD	B66F11/04; F03D11/00	An automatic balance device for an overhead working platform
EP2535582 A1 20121219	GB20110010189 20110616	ROLLS ROYCE PLC [GB]	F03D11/02; F16H3/72	An electrical generation system
EP2492497 A2 20120829	ES20110000204 20110224	GAMESA INNOVATION & TECH SL [ES]	F03D1/06	An improved wind turbine multi-panel blade
EP2538073 A2 20121226	DK20110070324 20110624	VESTAS WIND SYS AS [DK]	F03D1/00; F03D1/06	An improvement for horizontal blade installation for wind turbines
CN202431437U U 20120912	CN20112464098U 20111121	CHINA NAT PETROLEUM CORP; LIAOHE PETROLEUM EXPLORATION	F03D7/00	Analogue pitch controller for megawatt wind turbine generators

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WO2012107045 A2 20120816	DK20110000086 20110210	UGGEN PER [DK]	F03D11/04	ANCHOR OR MOORING ARRANGMENT, FOR ACTIVELY CONTROLLING THE DIRECTION OF FLOATING FOUNDATIONS EQUIPPED WITH TWO OR MORE WIND TURBINES, IN ORDER TO BE ABLE TO HOLD OR POINT THE FLOATING FOUNDATION INTO THE BEST GIVEN DIRECTION OF THE WIND
CN202468169U U 20121003	CN20122095811U 20120308	ZHONGJIN LIU	F03D9/00; F03D3/06	Anemometer mast type vertical shaft wind driven generator
CN102650267 A 20120829	CN20121109682 20120416	UNIV YANSHAN	F03D9/00; F03D11/04	Annular tilting sail type wind turbine
CN102597500 A 20120718	WO2010DE01214 20101014; EP20090013547 20091028	BARD HOLDING GMBH	F03D1/00; F03D11/04	Anode retainer for cathodic corrosion protection devices of foundation pipes of offshore wind turbines, foundation pipe of an offshore wind turbine and connecting structure therebetween, cathodic corrosion protection device for foundation pipes and offsho
SE1150184 A1 20120902	SE20110050184 20110301	BYRON HULSART MED NJORDS AERA FA [SE]	F03D1/00	Anordning för underhåll av rotorblad hos ett vindkraftverk
DK2267301T T3 20121126	EP20090008270 20090624	SIEMENS AG [DE]	F03D7/04; F03D11/00	Anordning og fremgangsmÕde til at styre kr÷jningen af en vindm÷lle
DE202011050703U U1 20120716	DE201120050703U 20110712	ENERTRAG SYSTEMTECHNIK GMBH [DE]	F03D11/00	Anordnung mit wenigstens einer Windenergieanlage
DE102011002488 A1 20120712	DE201110002488 20110110	REPOWER SYSTEMS SE [DE]	F03D11/04; F03D11/00	Anordnung von Bauteilen einer Windenergieanlage
CN102797642 A 20121128	CN20111141222 20110527	SINOVEL WIND GROUP CO LTD [CN]	F03D11/00	Anti-corrosion method for wind driven generator base and wind driven generator base

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CN102635502 A 20120815	CN20121140404 20120508	GUODIAN UNITED POWER TECH CO [CN]	F03D7/00	Anti-freezing control method for fan
CN102661250 A 20120912	CN20121140723 20120508	GUODIAN UNITED POWER TECH CO [CN]	F03D11/00; H05B3/02	Anti-freezing fan blade
WO2012097962 A2 20120726	EP20110000317 20110117	FM EN GMBH & CO KG [DE]; MITSCH FRANZ [DE]; DOERSAM MATHIAS [DE]	F16C25/08; F03D11/00; F16C27/06	ANTI-FRICTION BEARING WHICH CAN BE PRESTRESSED HYDRAULICALLY
CN202545142U U 20121121	CN20122204282U 20120508	GUODIAN UNITED POWER TECH CO [CN]	F03D11/00; H05B3/02	Anti-frozen fan blade
CN102686877 A 20120919	WO2010EP68675 20101201; GB20090021154 20091202; US20090265982P 20091202	VESTAS WIND SYS AS [DK]	F03D11/00; F03D1/00	Anti-oscillation apparatus and technique for securing wind turbine blades against oscillations
CN202338445U U 20120718	CN20112534436U 20111219	RENERGY ELECTRIC SUZHOU CO LTD	F03D7/00; H03K3/013	Anti-shaking circuit of variable-propeller motor
CN102536662 A 20120704	US20100973315 20101220	GEN ELECTRIC [US]	F03D7/04	Apparatus and method for operation of an off-shore wind turbine
KR20120088328 A 20120808	KR20110009605 20110131	KOREA ENERGY RESEARCH INST [KR]	F03D11/00; F03D7/02; G01P3/00; G05D13/00	APPARATUS AND METHOD FOR REDUCING ROTOR LOAD OF A WIND-DRIVEN GENERATOR
KR20120071007 A 20120702	KR20100132578 20101222	POSCO [KR]; RES INST IND SCIENCE & TECH [KR]	F03D11/00; F03D11/04	APPARATUS AND METHOD FOR SUPPORTING OVERSEA AEROGENERATOR
KR101206701B B1 20121129	KR20120059572 20120604		F03D3/04; F03D3/06; F03D11/00	Wind Power Generation Apparatus for Low Wind Speed
WO2012122989 A1 20120920	DK20110070130 20110321; US201161453810P 20110317	VESTAS WIND SYS AS [DK]; ABOLFAZLIAN MAZYAR [DK]; MOGENSEN MORTEN [DK]; BOVBJERG JAN RIIS [DK]	F03D11/00; F03D1/00	APPARATUS FOR ACCESSING THE NACELLE OF A WIND TURBINE AND ASSOCIATED METHODS

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KR200461806Y Y1 20120807	KR20090016247U 20091214		F03D9/00; F03D1/04; F03D11/02	WIND FORCE AND AIR-CIRCULATING TYPE SELF-GENERATION DEVICE OF INSTALLATION TO BUILDINGS
WO2012137356 A1 20121011	JP20110081775 20110401	MITSUBISHI HEAVY IND LTD [JP]; SHIGEMIZU TETSURO [JP]; WAKASA TSUYOSHI [JP]; YASUGI AKIRA [JP]	F03D9/00; F03D7/04	APPARATUS FOR CONTROLLING WIND POWER GENERATION APPARATUS, WIND POWER GENERATION APPARATUS, WIND FARM, AND METHOD FOR CONTROLLING WIND POWER GENERATION APPARATUS
GB2490314 A 20121031	GB20110006554 20110418	MATHCLICK LTD [GB]	F03B13/18; F03D5/06	Apparatus for converting movement into energy
KR20120076923 A 20120710	KR20100138697 20101230	SEO YOUNG TECH CO LTD [KR]	F03D1/00; F03D7/02; F03D11/00	APPARATUS FOR EVADING HIGH SPEED WIND IN HORIZONTAL AXIS WIND POWER GENERATOR
KR20120115612 A 20121019	KR20110033019 20110411	SEO YONG SEOG [KR]; PARK JONG HUN [KR]	F03D3/06; F03D3/04; F03D11/00	APPARATUS FOR GENERATING BY WIND POWER
AU2011248758 A1 20121108	US201113016828 20110128; US201113016895 20110128; US20100328396P 20100427; WO2011US33856 20110426	OSCILLA POWER INC [US]	H01H47/00	Apparatus for harvesting electrical power from mechanical energy
EP2497606 A1 20120912	US201113044990 20110310	GEN ELECTRIC [US]	B25B27/00; B23P19/04; F03D11/00	Apparatus for installing a seal
WO2012110338 A1 20120823	DE201110000823 20110218	DEWIND ENGINEERING GMBH [DE]; SZEMKUS FRANK [DE]; POHLMANN GERNOT [DE]	G05B19/042; F03D1/00	APPARATUS FOR LOCAL MAINTENANCE DATA STORAGE IN ENERGY CONVERSION

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WO2012163358 A1 20121206	DK20110070264 20110527; US201161491286P 20110530	VESTAS WIND SYS AS [DK]; HANCOCK MARK [GB]; BECH ANTON [DK]; THOMSEN PETER FRANS [DK]	F03D1/00	APPARATUS FOR MANIPULATING A WIND TURBINE BLADE AND METHOD OF BLADE HANDLING
KR20120088511 A 20120808	KR20110101458 20111005	LEE KANG WOOK [KR]	E01H5/10; E01C11/26; F03D9/00; H01L31/042	APPARATUS FOR MELTING SNOW
DE102011107672 A1 20120906	DE201110012188 20110223; DE201110012189 20110223; DE201110012168 20110223; DE201110107672 20110713	ZIMMERLY WALTER [DE]	F03D3/00; F03D3/02; F03D3/04; F03D3/06	Apparatus for recovering energy from flowing medium, particularly fluid or granular medium, or kinetic energy, has unit for converting flow energy or kinetic energy of fluid, granular medium or solid body into kinetic energy
KR20120099891 A 20120912	KR20110018398 20110302	KOREA OCEAN RES DEV INST [KR]	F03D11/00; E02D27/52	APPARATUS FOR REDUCING DRAG OF OFFSHORE WIND POWER SYSTEM
WO2012175078 A1 20121227	DE201110077917 20110621	ITEA ECOTECH GMBH [DE]; KELAIDITIS KONSTANTIN [DE]	F03D3/00; F03D3/06	APPARATUS FOR USING FLOW ENERGY
CA2773729 A1 20121015	US201113087874 20110415	GEN ELECTRIC [US]	B32B1/08; B29C70/00; B32B3/08; E04H12/00; E04H12/02; F03D11/04	APPARATUS, COMPOSITE SECTION, AND METHOD FOR ON-SITE TOWER FORMATION
CN202451372U U 20120926	CN20112479643U 20111128	RENXIANG YUAN	F03D11/00	Aqueous-suspension wind power generating set
CA2775326 A1 20121027	EP20110163910 20110427	SIEMENS AG [DE]	H02G1/00; H02G3/00	ARRANGEMENT AND METHOD FOR INSTALLING CABLES
CN102536679 A 20120704	EP20100194166 20101208	SIEMENS AG [DE]	F03D11/00	Arrangement and method for transporting a wind turbine rotor

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DE102011014542 A1 20120920	DE20111014542 20110319	HEINIG JUERGEN [DE]	F03D9/02	Arrangement for energy storing devices to store energy from wind turbines, comprises wind turbines equipped with high-pressure air compressors, where high-relaxation units are provided in wind turbines
DE102011018164 A1 20121025	DE20111018164 20110419	SCHILLING HARRY [DE]	F03D3/04; F03D1/04	Arrangement for limiting force of e.g. air on wings of e.g. vertical-shaped wind-power plant, has aperture allowing restricted amount of air made to flow into opening, where aperture surface is specific value smaller than surface of housing
DE102011016922 A1 20121018	DE20111016922 20110413	HEINIG JUERGEN [DE]	F03D9/02	Arrangement of device for large-scale and flexible storage of pneumatic energy, comprises large volume pressure pipes that are arranged to form energetic primary system which is designed as a ring line
CA2770938 A1 20120911	EP20110157898 20110311	SIEMENS AG [DE]	F03D1/06	ARRANGEMENT TO IMPROVE THE SURFACE OF A WIND TURBINE BLADE
CA2767269 A1 20120807	EP20110153559 20110207	SIEMENS AG [DE]	G01S13/88; F03D11/00	ARRANGEMENT TO MEASURE THE DEFLECTION OF AN OBJECT
DE102011080228 B3 20121129	DE201110080228 20110801	SUZLON ENERGY GMBH [DE]	F03D11/00	Arretierungsvorrichtung f³r Windturbinen
CN102562476 A 20120711	CN20121073662 20120320	JIANGUO XU	F03D9/00; F03D11/00	Artificial hurricane power generating device
CN102758729 A 20121031	CN20111103408 20110425	LONGZHONG LIU	F03D9/00	Artificial wind energy power generation device
CN102787979 A 20121121	CN20121256250 20120714	JUNTONG LIU	F03D9/00; F04D25/08	Artificial wind power generation device
CN202431030U U 20120912	CN20122029282U 20120120	GUOCHENG HUANG	E04H5/02; F03D9/00; H02N6/00	Assembled wind-solar complementary self-powered communication base station

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CN102561745 A 20120711	CN20121020548 20120120	GUOCHENG HUANG	E04H5/02; F03D9/00; H02N6/00	Assembled wind-solar hybrid self-powered communication base station
EP2477301 A1 20120718	EP20110150695 20110112	VENPOWER GMBH [DE]	H02J3/38; F03D9/00	Assembly for feeding electrical energy into an energy supply network
EP2525089 A2 20121121	DE201110075953 20110517	ZAHNRADFABRIK FRIEDRICHSHAFEN [DE]	F03D11/00	Assembly for mounting a transmission system of a wind power assembly
KR20120110810 A 20121010	KR20110028925 20110330	KUMOH NAT INST TECH ACAD COOP [KR]; SHIN JONG SEOP [KR]	F03D11/00; F03D3/06	ASSEMBLY MEMBER AND MANUFACTURING METHOD FOR HELIX TYPE SAVONIUS ROTOR
WO2012141603 A1 20121018	PL20110394367 20110414	PISKORZ WALDEMAR [PL]; PISKORZ TOMASZ TADEUSZ [PL]	F03D3/00; F03D3/04; F03D9/02; F04D3/02	ASSEMBLY OF AIR AND PNEUMATIC DEVICES
WO2012110979 A1 20120823	FR20110051281 20110216	LEROY SOMER MOTEURS [FR]; MOREAU LUC [FR]; RIGAUD PIERRE [FR]; VERCHERE THOMAS [FR]	H02P9/30; F03D7/04; H02P9/48	ASSEMBLY OPERATING IN A VARIABLE REGIME
WO2012107051 A1 20120816	US201161440426P 20110208	VESTAS WIND SYS AS [DK]; VAN DUIJVENDIJK MARCEL [NL]	F03D11/00	ASSESSING REMAINING USEFUL LIFE FOR PORTIONS OF WIND TURBINE SUPPORT STRUCTURES
WO2012152561 A1 20121115	DE20111075675 20110511	WOBBEN PROPERTIES GMBH [DE]; JANSEN GERHARD [DE]	G01N21/88; F03D11/00; G01N21/95	ASSESSMENT OF ROTOR BLADES
CN202550581U U 20121121	CN20122119139U 20120327	SHANGHAI MUNICIPAL ELEC POWER; EAST CHINA ELECTRIC POWER RES INST CO LTD	H02J3/38; F03D9/00	Asynchronous constant speed wind generation set device
WO2012154873 A1 20121115	US201113103963 20110509	SEFE INC [US]; OGRAM MARK ELLERY [US]	F03D5/00	ATMOSPHERIC ELECTRICITY COLLECTOR

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US2012261918 A1 20121018	US201213414569 20120307; US201113098476 20110501; US201161447674P 20110228	HANBACK JOHN [US]	H02P9/04; F03D9/00	ATMOSPHERIC ENERGY EXTRACTION DEVICES AND METHODS
US2012274068 A1 20121101	US201113098476 20110501	HANBACK JOHN [US]	H02P9/04; F03D9/00	ATMOSPHERIC ENERGY EXTRACTION DEVICES AND METHODS
DE202012004196U U1 20120904	DE201220004196U 20120426	LUEFTL THOMAS [DE]	F03D9/00	Aufwindkraftwerk mit doppelwandigem Aufwindturm
WO2012088592 A1 20120705	US201061427980P 20101229	ORGANOWORLD INC [CA]; CHURCHILL FREDERIC [CA]	F03D1/04; F01D17/14; F03B3/16; F03D3/04; F03D11/00	AUGMENTED FLUID TURBINE WITH RETRACTABLE WALL PANELS AND AERODYNAMIC DEFLECTORS
WO2012093244 A1 20120712	US201161429790P 20110105; GB20110000046 20110104	VESTAS WIND SYS AS [DK]; KINGSLEY SIMON [GB]; HEDGES ANDREW [GB]	F03D1/06; B29C70/38	AUTOMATED TECHNIQUES FOR MANUFACTURING FIBROUS PANELS
KR20120117062 A 20121024	KR20110034566 20110414	CHOI SUN YOUN [KR]	F03D9/00; F03D7/00; F24F7/04	AUTOMATIC CONTROL WIND-POWER GENERATION DEVICE
CN202345381U U 20120725	CN20112329570U 20110902	ZHANG PINGXIN	B60K16/00; F03D9/02	Automatic electric energy storage structure for automobile
CN102606405 A 20120725	CN20111461773 20111223	YUANJUN LV	F03D9/00; F01B21/00; F03G6/00; H02J7/32; H02N6/00	Automatic kinetic resistance energy storage and resistance discharge power machine
CN102661249 A 20120912	CN20121140289 20120509	BEIJING NORTHERN KIDD ENERGY EQUIPMENT CO LTD; SHANDONG ZHONGKAI WIND POWER EQUIPMENT MFG CO LTD; XUNFENG WEI	F03D11/00; E04H12/18	Automatic lifting rod of small wind driven generator
CN202392412U U 20120822	CN20112532112U 20111219	JIANGSU WENDE NEW ENERGY CO LTD	F16N11/00; F03D11/00	Automatic lubricating device of wind wheel locking pin

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CN102691620 A 20120926	CN20111068625 20110322	SHANGHAI WIND POWER CO LTD	F03D7/04	Automatic pitch control and braking device for permanent-magnetic direct-drive wind power generator
CN102635495 A 20120815	CN20121109250 20120416	JIANGYIN GIANSUN PREC MACHINERY PARTS CO LTD	F03D1/06; F03D7/04	Automatic pitch-adjusting wind wheel
KR20120096180 A 20120830	KR20110015440 20110222	HOLYMA LTD [NZ]	F03D9/02; B60L11/18	AUTOMATIC POLLUTION-FREE ENERGY GENERATION DEVICE FOR TRANSPORT
CN102691619 A 20120926	CN20121193098 20120613	SHANGHAI INST TECHNOLOGY	F03D7/00	Automatic variable-pitch speed regulating device based on air speed
CN102536667 A 20120704	CN20101614314 20101217	YONG ZHANG	F03D9/00; F03D3/04; F03D3/06	Automatic wind guide vertical shaft wind-driven generator
TW201241304 A 20121016	TW20110112233 20110408	CHEN RUI-MAO [TW]	F03D3/04	Automatic wind-guiding device for vertical-axis wind turbine
CN202360309U U 20120801	CN20112339316U 20110909	XIAOLONG FENG	F03D11/04	Automatically opened and closed wind turbine
CN102700406 A 20121003	CN20111084535 20110328; CN20111263200 20110823	WENJI HAN	B60K16/00; F03D9/00	Automobile with breeze power generation device
CN102555819 A 20120711	CN20101588182 20101214	FUSHUN YANG	B60L8/00; B60G13/00; B60K6/00; B60K16/00; B60N2/005; B60R21/23; F01D15/10; F03B13/00; F03D9/00; F16F13/00	Automobile with hybrid power transmission device and outside power access device thereof
US8253262 B1 20120828	US20100978074 20101223; US20080283345 20080910	KILER TIMOTHY W [US]	F03D9/00; H02P9/04	Automotive wind powered generator system

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RO127673 A2 20120730	RO20110000072 20110128	UNIV POLITEHNICA DIN BUCURESTI [RO]	F03D3/00; F24F3/02; F24J2/36	AUTONOMOUS HYBRID SYSTEM FOR PRODUCING ELECTRIC ENERGY BY USING WIND AND SUN ENERGY
EP2506397 A2 20121003	US201113076610 20110331	GEN ELECTRIC [US]	H02K1/20; F03D9/00; H02K1/14; H02K3/50; H02K5/20; H02K7/18; H02K9/00; H02K9/04	Axial cooled generator
CN102628427 A 20120808	CN20121121625 20120424	HEBEI TIANZE HEAVY MACHINERY CO LTD	F03D9/00; F03D1/02	Axial flow disrotatory direct driving type wind power generation device
CN202510291U U 20121031	CN20122176357U 20120424	HEBEI TIANZE HEAVY MACHINERY CO LTD	F03D9/00; F03D1/02	Axial-flow, opposite-rotation and direct-driven wind power generation device
DE102011000769 A1 20120816	DE201110000769 20110216	ROTHE ERDE GMBH [DE]	F16C19/38; F03D11/04	Axial-Radialwälzlager, insbesondere für die Lagerung von Rotorblättern an einer Windkraftanlage
CN102588225 A 20120718	CN20121063130 20120312; CN20121076972 20120322	SHANDONG SIBATE ELECTRIC DRIVE TECHNOLOGY CO LTD	F03D11/00; F03D9/00	Axis-free wind power generation tower with a cylindrical frame structure
DE102011015199 A1 20120927	DE20111015199 20110325	AMSBECK MASCHINENTECHNIK GMBH [DE]	F03D11/00	Azimuth drive device for horizontal wind-tracking of housing of wind power plant, has torque limiter arranged between azimuth drive and azimuth transmission in inner groove of plug-in sleeve and provided for limiting torque acting on drive
DE102011003602 A1 20120809	DE201110003602 20110203	REPOWER SYSTEMS SE [DE]	F03D1/06	Backup system for rotor blade of wind turbine, has longitudinally extended and tension transmitting main strand element formed in rotor blade, and attached to several elongate and tensile load transmitting auxiliary group elements

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CN202370737U U 20120808	CN20112522059U 20111214	ZHISEN PANG; WENZHONG WANG; DAZHONG ZHANG; MING PANG; YICHANG FAZHONG SHIPPING CO LTD	F03B13/00; B63B35/34; F03D9/00; F03G6/00	Barge and flowing water power generation combined power station
CN202391651U U 20120822	CN20112392287U 20111014	GUOBIN GAO	F03D9/00; F03D1/04; F03D1/06	Barrel type wind power generator
CN202531356U U 20121114	CN20122198001U 20120506	ZHENZHI DAI	F03D9/00; F03D1/00; F03D1/04; F03D7/04; F03D11/00	Barrel-type wind power generating device
TW201231803 A 20120801	TW20110103608 20110128	LIU EDDY YU-LIN [TW]	F03D11/00; F03D1/04	Barrel-type wind turbine to cascade tornado-type wind turbine
CN202300870U U 20120704	CN20112381388U 20111010	ZHEJIANG JINYE TECHNOLOGY CO LTD	F03D11/00	Base frame adjustment device for vertical axis wind turbine
CN102661248 A 20120912	CN20121126740 20120426	GUANGDONG MINGYANG WIND POWER INDUSTRY GROUP CO LTD	F03D11/00	Base structure of wind generating set
CN202342788U U 20120725	CN20112479191U 20111128	WUXI TONGCHUN NEW ENERGY TECH	A63B63/08; A63B71/06; F03D9/00	Basketball display backboard with wind power generation for supplying power to image sensor
DE202012009889U U1 20121210	DE201220009889U 20121017	E N O ENERGY SYSTEMS GMBH [DE]	E04H12/00; E04B1/38; F03D11/04	Bauelementbefestigung in einem Turm einer Windenergieanlage
WO2012130305 A1 20121004	WO2011EP54953 20110330	AMSC WINDTEC GMBH [AT]; GOEBEL WERNER [DE]; PICK MATHIAS [DE]; VESSELINOV VLADIMIR [DE]	F16C19/54; F03D11/00; F16C19/36; F16C19/38; F16C23/06; F16C35/12	BEARING ARRANGEMENT AND WIND ENERGY CONVERTER
EP2518306 A1 20121031	EP20110163927 20110427	TEKMAR ENERGY LTD [GB]	F03D1/00; E04H9/02; F03D11/00; F03D11/04	Bearing assembly for a transition piece of a wind turbine tower

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CN102639884 A 20120815	WO2010EP65578 20101017; DE200910049769 20091016	SUZLON ENERGY GMBH	F16C17/10; F03D11/00; F16C33/26; F16C41/00; F16C43/02	Bearing assembly for a wind turbine
JP2012163145 A 20120830	JP20110023126 20110204	UNIV MIE; MIE TLO CO LTD; MIE DENSHI KK	F16C41/00; F03D11/00; F03D11/02; F16C19/06; F16D3/41	BEARING DEVICE AND DEVICE HAVING THE SAME
JP2012132333 A 20120712	JP20100283420 20101220	MITSUBISHI HEAVY IND LTD [JP]	F03D11/02; F03D1/06; F03D11/00	BEARING OIL SUPPLY STRUCTURE FOR WIND POWER GENERATION APPARATUS
CN202301474U U 20120704	CN20112440940U 20111109	BAODING TIANWEI WIND POWER TECHNOLOGY CO LTD	F16C35/00; F03D11/00	Bearing pedestal with dual-rotor lock symmetrical structure
JP2012149757 A 20120809	JP20110010991 20110121	NTN TOYO BEARING CO LTD [JP]	F16C33/62; F03D11/00; F16C33/64; F16C33/66	BEARING RING AND ROLLING BEARING
CN202561055U U 20121128	CN2012265131U 20120227	BEIJING JINGCHENG NEW ENERGY CO LTD	F16J15/32; F03D11/00	Bearing seal device applied to wind power generation unit main shaft system
EP2503164 A1 20120926	FR20110052517 20110325	DEFONTAINE [FR]	F16C19/16; F03D11/00; F16C19/18; F16C19/38; F16C19/49; F16C19/54; F16C33/36	Bearing with three and more rows of rolling elements
CN202402213U U 20120829	CN20112508289U 20111208	UNIV KUNMING SCIENCE & TECH	F03D9/00; F03D1/00; F03D11/00; H02J3/38; H02N6/00	Beverage bottle solar wind power generation device
CN202510283U U 20121031	CN20112508274U 20111208	UNIV KUNMING SCIENCE & TECH	F03D9/00; F03D1/00; F03D7/06; F03D11/00; H02K7/18	Beverage bottle wave and wind power generation device
CN102720636 A 20121010	CN20111078386 20110330	ZHANGJIAGANG JIUDING MACHINERY CO LTD	F03D9/00; B62J6/06; B62M6/00; F03D1/04; F03D1/06	Bicycle auxiliary apparatus

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FR2974782 A1 20121109	FR20110053935 20110506	PEUGEOT CITROEN AUTOMOBILES SA [FR]	B62J6/00; F03D9/00	Bicycle, has frame including tube extended between front and back portions of frame, where tube includes front and rear ends, which include device for producing electricity from wind to supply to illumination device
CN202338449U U 20120718	CN20112522599U 20111214	YUCHEN WANG	F03D9/00; F03D1/02; F03D7/04; F03D11/00	Bidirectional blade wind driven generator
CN202431449U U 20120912	CN20122035613U 20120118	WEIXING SU	F03D9/00	Bidirectional rotating generating set
CN202349857U U 20120725	CN20112464092U 20111121	YUHUAN ZHENG	F21S9/04; F03D3/06; F03D9/00; F21V23/00; G09F7/00	Billboard-rotating type wind-powered street lamp
CN102738983 A 20121017	CN20121172334 20120529	CHUZHOU CONSTANT BOON PHOTOELECTRIC TECHNOLOGY CO LTD	H02K16/00; F03D9/00	Birotor permanent magnet breeze generator
WO2012139667 A1 20121018	US201113087505 20110415	SIEMENS AG [DE]; EGEDAL PER [DK]; KUMAR SATHEES [DK]; NIELSEN KAJ SKOV [US]	H02J3/38; F03D9/00	BLACK START OF WIND TURBINE DEVICES
CN202545111U U 20121121	CN20122161000U 20120416	SHANGHAI GHREPOWER GREEN ENERGY CO LTD	F03D7/00	Blackout feathering control system of permanent magnet variable pitch wind-driven generator set
CN102619697 A 20120801	CN20121113140 20120417	LIHUA ZHAO	F03D9/00; F03D3/06	Blade and impeller of vertical shaft wind driven generator
CN102758728 A 20121031	CN20121244988 20120713	SINOVEL WIND GROUP CO LTD [CN]	F03D7/00	Blade and method for controlling flowing-around, and wind turbine provided with blade
WO2012102294 A1 20120802	JP20110013825 20110126	FUJIKURA RUBBER LTD [JP]; SAITOU HITOSHI [JP]; NAKAMURA TAKATO [JP]; SUZUKI NOBUAKI [JP]	F03D11/00; F03D1/06	BLADE AND PROTECTIVE LAMINATED SHEET FOR BLADE

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KR200463435Y Y1 20121105	KR20110003544U 20110426		H01L31/058; F03D9/00; H02N6/00	Solar-wind hybrid power generator
EP2511522 A1 20121017	EP20110003033 20110411	BAUMER INNOTEC AG [CH]	F03D7/02; G01B11/16	Blade angle control for a rotor blade of a wind turbine
KR20120005729U U 20120809	KR20110000951U 20110201		F03D11/00; F03D11/02; F21S8/00	Wind power generator with function of light
KR20120111448 A 20121010	KR20110029919 20110331	NAT UNIV CHONBUK IND COOP FOUN [KR]; DELTA ES CO LTD [KR]	F03D11/00; G01B13/22; G01B21/30; G01P5/00	BLADE ASSEMBLY OF WIND GENERATOR FOR ASSESSMENT OF SURFACE ROUGHNESS
WO2012175204 A1 20121227	DE201110113122 20110621	IMO HOLDING GMBH [DE]; FRANK HUBERTUS [DE]	F16C19/18; F03D11/00; F16C33/62; F16C33/64	BLADE BEARING FOR A WIND POWER PLANT AND METHOD FOR MANUFACTURING SAME
CN202370747U U 20120808	CN20112513644U 20111212	JINAN RAILWAY VEHICLES EQUIP	F03D7/00	Blade braking device
DK177322B B1 20130102	DK20110070194 20110420	A2SEA AS [DK]	F03D1/00; B65D61/00; B65D85/68	Blade Carrier
CN202390071U U 20120822	CN20112501089U 20111202	GOLDWIND SCIENCE & TECHNOLOGY CO LTD	B66C1/10; B66C13/08; B66D1/60; F03D11/00	Blade change auxiliary system of wind-power generator set
CN202326036U U 20120711	CN20112454292U 20111116	SANY ELECTRIC CO LTD	F03D11/00	Blade deicer and wind driven generator
US2012257982 A1 20121011	US201213446715 20120413; DK20050001451 20051017; US20080083638 20080416; WO2006DK00582 20061017	LM GLASFIBER AS [DK]	F03D1/06	BLADE FOR A WIND TURBINE ROTOR
CN202300851U U 20120704	CN20112394067U 20111017	PINGDINGSHAN ZHONGJIA ENERGY TECHNOLOGY CO LTD	F03D9/00; F03D1/06; F03D3/06	Blade for electric vehicle wind power generation apparatus
KR20120007287U U 20121023	KR20120007249U 20120813		E01C1/00; E01C11/26; F03D9/00	ground-floon-pen a two stoneyed bundle a road enection gang

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WO2012150691 A1 20121108	JP20110103295 20110502	BIRUMEN KAGOSHIMA CO LTD [JP]; NOMOTO KAZUKI [JP]; NOMOTO KAZUOMI [JP]; YAGI MANABU [JP]	F03D1/06; F03D11/00	BLADE FOR IMPELLER WHEEL FOR WIND TURBINE DEVICE, AND IMPELLER WHEEL FOR WIND TURBINE DEVICE
KR20120083586 A 20120726	KR20110004777 20110118	UNIV HOSEO ACAD COOP FOUND [KR]; EEGEN CO LTD [KR]	F03D11/00; F03D3/06; F03D7/06	BLADE FOR VERTICAL AXIS TURBINE SYSTEM ABLE TO RAGULATE AUTO-PITCH
CN202500732U U 20121024	CN20122084124U 20120301	SHANDONG JUYI NEW ENERGY CO LTD	F03D11/00	Blade for wind power generator
CN102575651 A 20120711	WO2011KR06368 20110829; KR20100084326 20100830	MI-KYOUNG KIM	F03D11/00; F03D1/06	Blade for wind power generator
US2012328399 A1 20121227	ES20100000225 20100225; WO2011ES00036 20110218	COLOMA FERNANDEZ GONZALO [ES]; GAMINDE LARRETA BEINAT [ES]	B66C1/62; B66D1/28; B66D1/60	BLADE HANDLING TOOL
CN102713279 A 20121003	WO2010ES00533 20101230; ES20100000042 20100114; ES20100000330 20100312	GAMESA INNOVATION & TECH SL [ES]	F03D11/04; B66C1/66; F03D1/06	Blade hoisting element and method followed
TWM438747U U 20121001	CN2011207183U 20110111	SHIP AND OCEAN IND R & D CT [TW]	H01T4/08	Blade lightning connection flash controller
CN202326035U U 20120711	CN20112453920U 20111116	JINAN RAILWAY VEHICLES EQUIP	F03D11/00; H01R39/64	Blade lightning protection device for wind generating set
CN102644546 A 20120822	EP20110001206 20110215	SSB WIND SYSTEMS GMBH & CO KG [DE]	F03D7/00	Blade load reduction for wind turbine
CN102705157 A 20121003	CN20121207846 20120621	XIANGZENG ZHANG	F03D1/06; B29C70/52	Blade of horizontal axis WTGS and forming method and equipment thereof

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CN202468156U U 20121003	CN20122038170U 20120207	QINHUANGDAO FENGRIHE TECHNOLOGY CO LTD	F03D3/06	Blade of vertical axis wind-driven generator
CN102562442 A 20120711	CN20121026191 20120207	QINHUANGDAO FENGRIHE TECHNOLOGY CO LTD	F03D3/06	Blade of vertical-axis wind turbine
CN102748247 A 20121024	CN20121253710 20120721	JINAN RAILWAY VEHICLES EQUIP	F03D11/00; F03D7/00	Blade of wind driven generator with speed capable of being adjusted passively
KR101215076B B1 20121224	KR20120060045 20120604	JEONG IN TECH CO LTD [KR]	F03D1/06; F03D3/06; F03D11/00	BLADE OF WIND ENERGY FACILITY AND THE MANUFACTURING METHOD THEREOF
KR20120136030 A 20121218	KR20110055001 20110608	SAMSUNG HEAVY IND [KR]	F03D11/00	BLADE OF WIND POWERGENERATOR AND POWERGENERATOR
CN202391661U U 20120822	CN20112539562U 20111221	TAI LI	F03D11/00	Blade of wind-driven generator
CN102797646 A 20121128	CN20121334006 20120911	TPI COMPOSITES MEMBER TAICANG CO LTD	F03D11/00; B29C70/34	Blade of wind-driven generator and manufacturing method thereof
EP2489873 A1 20120822	EP20110154655 20110216	AREVA WIND GMBH [DE]	F03D7/02	Blade pitch angle adjusting apparatus for a wind turbine
KR20120090757 A 20120817	WO2010JP71063 20101125	MITSUBISHI HEAVY IND LTD [JP]	F03D7/00; F03D1/06; F03D7/04; F03D11/02	BLADE PITCH CONTROL DEVICE, WIND POWER GENERATOR, AND BLADE PITCH CONTROL METHOD
CA2741597 A1 20120911	WO2011JP55792 20110311	MITSUBISHI HEAVY IND LTD [JP]	F03D7/00; F03D11/00	BLADE PITCH CONTROL SYSTEM, WIND TURBINE GENERATOR, AND BLADE PITCH CONTROL METHOD
EP2505833 A1 20121003	EP20110382085 20110329	ALSTOM WIND S L U [ES]	F03D11/04; H02K3/28; H02K16/04; H02P25/22	Blade Pitch System with a dual winding drive
CN102797644 A 20121128	CN20121301048 20120822	TIANJIN DONGFANG ELECTRICAL WIND POWER BLADE ENGINEERING CO LTD	F03D11/00; B29C33/00; B29C70/34	Blade root baffle plate and manufacturing method thereof, die special for clapboard and die special for manhole plate

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CN202326038U U 20120711	CN20112463203U 20111119	NINGBO JINWEI STANDARD PART CO LTD	F03D11/00; F16B35/00; F16B37/00	Blade root bolt assembly for wind generation
KR101178992B B1 20120831	KR20120028038 20120320	HANLIM [KR]	F03D3/00; F03D3/02; F03D3/06; F03D11/00	BLADE SEGMENT FOR WIND POWER GENERATION
PL394308 A1 20120924	PL20110394308 20110322	WIECZOREK PAWEL [PL]; FUHRMANN RYSZARD [PL]	F03D3/06; F03D3/00	Blade set of the wind turbine with a vertical axis of rotation
CN102661253 A 20120912	CN20121155628 20120519	LIQING SUN	F03D11/00	Blade stretching and contracting device of wind power generator
CN202483808U U 20121010	CN20122083043U 20120307	SUN LIQING	F03D11/00	Blade stretching device of wind driven generator
KR101188058B B1 20121004	KR20120006816 20120120	PUSAN NAT UNIV IND COOP FOUND [KR]	F03D3/06; F03D11/00	BLADE STRUCTURE HAVING PIVOTS FOR SAVONIUS WIND GENERATOR
CN102606417 A 20120725	CN20121072677 20120319	UNIV XI AN JIAOTONG	F03D11/00	Blade structure of wind power generator with serrated blade apexes
CN102606406 A 20120725	CN20121045789 20120227	BLUESTAR ENVIRONMENTAL PROT ENERGY CO LTD	F03D9/00; F03D1/06	Blade tilt angle variable horizontal-shaft blade type wind-driven generator
CN102650262 A 20120829	CN20121133269 20120424	JIE LI	F03D3/06; F03D7/06	Blade underspeed-controllable vertical axis wind turbine
CN202431443U U 20120912	CN20122019288U 20120117	ANHUI SCIENCE AND TECHNOLOGY UNVIERSITY	F03D7/00	Blade vibration active control system of wind driven generator
EP2527247 A1 20121128	WO2010ES70027 20100120	SOLUCIONES ENERGETICAS S A [ES]	B64C3/44; F03D1/06	BLADE WITH A VARIABLE PROFILE AND SHAPE
CN202381268U U 20120815	CN20122013999U 20120103	BAOTOU VOCATIONAL & TECHNICAL COLLEGE	F03D11/00	Blade with turbulator
WO2012111518 A1 20120823	JP20110033922 20110218	MITSUBISHI HEAVY IND LTD [JP]; SHINDO KENTARO [JP]; HIRANO TOSHIYUKI [JP]; KAWASETSU NOZOMU [JP]	F03D11/00; F03D1/06	BLADE-ROOT-FORMING PIECE FOR WIND TURBINE BLADE, BLADE ROOT STRUCTURE FOR WIND TURBINE BLADE USING SAME, WIND TURBINE BLADE, WIND TURBINE AND METHOD FOR PRODUCING WIND TURBINE BLADE

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CN102748207 A 20121024	CN20121287071 20120813	LIHUA ZHAO	F03D3/06	blades and impeller of vertical-shaft wind power generator
DE102011003788 A1 20120809	DE201110003788 20110208	STROMAG WEP GMBH [DE]	F03D11/00	Blocking device for rotor of wind power plant, has cylinder designed such that force for transferring piston from releasing position to blocking position is smaller or equal to force for transferring piston from blocking position
CN102788655 A 20121121	CN20121288220 20120814	BEIJING JINFENG KECHUANG WIND POWER EQUIPMENT CO LTD	G01L5/16; F03D7/00; G01M15/00	Blower load measuring device and system and blower control system
CN102619696 A 20120801	CN20121108191 20120413	XIAOXIN ZHANG	F03D9/00; F03D3/06	Boat-shaped blade vertical axis wind turbine generator
EP2527556 A2 20121128	US201113115530 20110525	GEN ELECTRIC [US]	E04C3/08; E04H12/10; F03D11/04	Bolt Connection for a Wind Tower Lattice Structure
CA2762968 A1 20120704	EP20110150101 20110104	SIEMENS AG [DE]	F16B33/02; F03D11/00	BOLTED CONNECTION FOR CONNECTING TWO WIND TURBINE COMPONENTS BY BOLTS
CN102777317 A 20121114	CN20121282951 20120810	WUXI C SOLAR NEW ENERGY TECHNOLOGY LTD	F03D1/04; F03D3/04	Bowler hat type wind gathering device
CN102748250 A 20121024	CN20121204244 20120620	WUXI CHIRUN SHEET METAL MACHINERY MFG CO LTD	F03D11/04; F03D9/00	Bracket component structure of out-cabinet fan of wind power generation system
WO2012163629 A1 20121206	DE201120050344U 20110603	HANNING & KAHL GMBH & CO KG [DE]; SCHOLZ MALTE [DE]	F16D66/00; F03D7/02	BRAKE
WO2012164637 A1 20121206	JP20110119828 20110530	WING INTERNAT CO LTD A [JP]; SATSUKI KABUSHIKI GAISHA [JP]; KAKI NAOKI [JP]; KITANO MICHIYO [JP]	H02P3/00; F03D7/04; F03D9/00	BRAKE APPARATUS FOR GENERATOR

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KR20120097131 A 20120903	KR20110016507 20110224	TAE CHANG N E T CO LTD [KR]	F03D3/00; F03D11/00; F16D65/02	BRAKE APPARATUS FOR VERTICAL TYPE WIND GENERATOR SYSTEM
CN202451365U U 20120926	CN20112573163U 20111231	SHENZHEN FENGFA TECHNOLOGY DEV CO LTD	F03D7/06	Brake device of vertical axis wind turbine
CN202431438U U 20120912	CN20112543230U 20111222	SINOVEL WIND GROUP CO LTD [CN]	F03D7/00; F16D65/12	Brake disc device of yaw system of wind generating set
EP2500597 A1 20120919	EP20110158736 20110317	HANNING & KAHL GMBH & CO KG [DE]	F16D65/14; F03D7/04	Brake for wind farms
KR20120134740 A 20121212	KR20110053871 20110603	SAMSUNG HEAVY IND [KR]	F03D11/00; F03D11/02	BRAKE SYSTEM FOR WIND TURBINE
WO2012172022 A1 20121220	BE20110000360 20110615	FAIRWIND S A [BE]; DEBLESER YVES [BE]	F03D7/06; F03D3/06	BRAKING DEVICE FOR A WIND TURBINE HAVING A VERTICAL AXIS
AU2011213427 A1 20120705	CN201019114063 20100208; WO2011CN00175 20110131	NAT WIND ENERGY CO LTD [CN]	F03D3/00; F16D65/28	Braking equipment for vertical shaft wind generator and braking method therefor
FR2976326 A1 20121214	FR20110055078 20110609	OKWIND [FR]	F03D11/00; F03B13/00; F03B15/00; F03D7/00; F03D9/00; H02K7/106	Braking module for e.g. small vertical axis wind turbine, used in energy production installation installed in e.g. industrial space in urban environment, has activation unit allowing connection between generator and production unit
CN202525145U U 20121114	CN20122129168U 20120327	UNIV ZHEJIANG NORMAL	A41D13/11; F03D9/00; H02J7/32	Breathing type generating mask
CN102777327 A 20121114	CN20121277507 20120807	UNIV NANJING AERONAUTICS	F03D9/00; H02N2/18	Breeze power generation device based on piezoelectric effects
CN202326027U U 20120711	CN20112481491U 20111129	CHENGDU DYNA POWER TECHNOLOGY CO LTD	F03D9/00; F03D1/06; F03D7/02; F03D11/00; F16B43/00	Breeze-starting low-wind power generation off-grid horizontal axle-type wind driven generator
CN202424285U U 20120905	CN20112578615U 20111229	JIANGUO DAI	H02J7/14; F03D9/00; H02J7/00	Bridge opening wind power generation system

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US2012256422 A1 20121011	US201113080488 20110405	FRADELLA RICHARD B [US]	F03D9/00; F03B13/08; F03G5/06; H02K7/102; H02K9/22; H02P9/48	BROAD-SPEED-RANGE GENERATOR VARIATIONS
KR20120109889 A 20121009	KR20110027694 20110328	LIM KYONG SOO [KR]; KIM YOUNG OK [KR]; LIM YONG HYUN [KR]; LIM SOONG HUYON [KR]; LIM KYUNG YUN [KR]	F03D9/00; H01L31/042	BUILDING PHOTOVOLTAICS AND WIND TURBINE SYSTEM
KR20120074163 A 20120705	KR20100136129 20101227	RES INST IND SCIENCE & TECH [KR]	F03D9/00; F03D1/00; F03D11/04	BUILDING TYPE WIND POWER GENERATOR
CN102748230 A 20121024	CN20121243492 20120716	HUAOJUN ZHU	F03D9/00; E04F17/00; F03G7/04; F23J11/00; F24C15/20; F24F13/02	Building-pipeline spraying type power generation method capable of reducing urban heat island effect
CN102639284 A 20120815	WO2010JP71564 20101202; JP20090277021 20091204; JP20090277050 20091204	NIPPON STEEL CORP [JP]	B23K31/00; B23K15/00; B23K15/06; F03D11/04	Butt welded joint of welded structure, and method for manufacturing same
CN202326039U U 20120711	CN20112463704U 20111118	GUANGDONG DONGXING FENGYING WIND POWER EQUIPMENT CO LTD	F03D11/00	Cabin cover for wind generating sets
CN202300183U U 20120704	CN20112382494U 20111010	BEIJING JINFENG KECHUANG WIND POWER EQUIPMENT CO LTD	E06C5/16; F03D11/00	Cabin ladder of wind generating set
CN202300877U U 20120704	CN20112484908U 20111115	TAIYUAN HEAVY INDUSTRY CO LTD	F03D11/00	Cabin of wind turbine generator system
CN202370761U U 20120808	CN20112503483U 20111206	SHANGHAI ELECTRIC WINDPOWER EQUIPMENT CO LTD	F03D11/00; H02G15/02; H02G15/06	Cable connection structure of wind power generating set without twisting or untwisting cable

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CN102602751 A 20120725	CN20111114733 20110424; CN20121101117 20120410	CONGGUI LUO	B65H75/34; B65H75/44; F03B13/00; F03D9/00	Cable controller, kite, kite drive operating mechanism, kite power generator and automobile and boat wind-driving method
CN202301482U U 20120704	CN20112423904U 20111101	YONGJI XINSHISU ELECTRIC EQUIP	F16C35/08; F03D11/00; F16C41/00; F16L3/06	Cable core shaft for wind driven generator
CN202451375U U 20120926	CN20122080550U 20120306	CSR ZHUZOU ELECTRIC LOCOMOTIVE RES INST CO LTD	F03D11/00	Cable protection device for wind generating set
KR20120134739 A 20121212	KR20110053870 20110603	SAMSUNG HEAVY IND [KR]	H02G3/30; F03D11/00	CABLE PROTECTION STRUCTURE AND WIND TURBINE HAVING THE SAME
CN202302316U U 20120704	CN20112382380U 20111010	BEIJING JINFENG KECHUANG WIND POWER EQUIPMENT CO LTD	F16L3/06; F03D11/00	Cable tray for wind power generator set
CN202417838U U 20120905	CN20122011217U 20120112	CHINA CREATIVE WIND ENERGY CO LTD	F03D11/00	Cable twisting angle limiting device for wind generating set
CN102644560 A 20120822	CN20121152806 20120517	FUJIAN MYEIR NEW ENERGY TECHNOLOGY CO LTD	F03D11/00	Cable twist-off preventing device of small-sized wind power generator
CN202451367U U 20120926	CN20112345029U 20110914	JUNHAO ZENG	F03D9/00; F03D1/04; F03D1/06; F03D7/02	Cage-type wind generating set with strip-shaped blades
EP2492500 A1 20120829	EP20110155944 20110225	SIEMENS AG [DE]	F03D7/04	Capacitance placement in wind farms
ES2385233 A1 20120720	ES20120030983 20120622	E3 EFICACIA ENERGETICA EOLICA S L [ES]	F03D3/00	Captador energÚtico combinado
US2012181791 A1 20120719	US201113373962 20111206; US201161461153P 20110113	RENNAR EDWARD D [US]	F03D9/00	Captured wind energy (CWE)

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CN202300854U U 20120704	CN20112420598U 20111028	SHANGHAI FENGJING MIDDLE SCHOOL	F03D9/00; F03D3/00; F03D3/06; F03D11/00	Carbon-fiber curtain type wind wheel Antarctic power station
WO2012091244 A1 20120705	KR20100138089 20101229	KYUNGDONG NAVIEN CO LTD [KR]; MIN TAE SIK [KR]	F03D3/02; F24D19/08; F24D19/10	CASCADE SYSTEM, METHOD OF CONTROLLING SAME, AND HEATING-DEDICATED BOILER CONSTITUTING THE CASCADE SYSTEM
CN102691535 A 20120926	US201113069471 20110323	GEN ELECTRIC [US]	F01D25/24; C22C37/00; F01D9/02; F03D11/00	Cast turbine casing and nozzle diaphragm preforms
KR20120083941 A 20120726	GB20090020927 20091130	JOHNSON MATTHEY PLC [GB]	B01J29/80; B01D53/56	CATALYSTS FOR TREATING TRANSIENT NOX EMISSIONS
CN102562473 A 20120711	CN20121029327 20120131	YAOZHONG LI	F03D9/00	Cavity self-generating wind device and power generation method thereof
US2012177509 A1 20120712	US201213420700 20120315; US20080249086 20081010; US20070978860P 20071010	DELTA T CORP [US]	F04D27/00; F04D19/00; F04D29/00	CEILING FAN WITH CONCENTRIC STATIONARY TUBE AND POWER-DOWN FEATURES
CN202348590U U 20120725	CN20112290318U 20110811; CN20112392955U 20111014	YUNHE DENG	F03D11/04	Center tower for vertical shaft wind generator
CN202520488U U 20121107	CN20122119360U 20120326	JIANGSU NEW UNITED HEAVY INDUSTRY SCIENCE & TECHNOLOGY CO LTD; NEW UNITED GROUP	F03D11/00; F03D9/00	Centralized cooling and heating device for wind generator set
CN202348566U U 20120725	CN20112350092U 20110919	HONGTAO ZHANG	F03D7/04	Centrifugal blade-adjusting and speed-stabilizing device of small-type wind turbine generator

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CN102536684 A 20120704	CN20121029960 20120211	HONGTAO ZHANG	F03D11/00; F03D7/00	Centrifugal variable pitch speed stabilizing hub for small-sized wind driven generator
US2012308386 A1 20121206	US201113279738 20111024; US201161491843P 20110531	CLIPPER WINDPOWER LLC [US]	F03D11/02	Chain Drive Train for a Wind Turbine
TWM436726U U 20120901	TW20120200558U 20120110	HWA YAO TECHNOLOGIES CO LTD [TW]	F03D9/02	Charge-collection device for wind-power generator
AR081360 A1 20120829	DE201010028038 20100421	WOBBEN ALOYS [DE]	E02D27/42	CIMIENTO DE INSTALACION DE ENERGIA EOLICA, PROCEDIMIENTO DE MONTAJE E INSTALACION DE ENERGIA EOLICA
US2012306213 A1 20121206	DE201010000082 20100114; WO2011EP50228 20110110	WOODWARD KEMPEN GMBH [DE]	F03D9/00; H02B1/24; H02B1/56	Circuit Arrangement of Electronic Circuit Breakers of a Power Generation Device
CN102723840 A 20121010	CN20121214599 20120626	HENG ZHANG; KAILEI LIU	H02K35/02; F03B13/00; F03B13/14; F03D9/00; H02K35/04	Circumference magnet-cutting fluid power generation device
FR2975445 A1 20121123	FR20120002233 20120813	BENHAIEM PIERRE [FR]	F03D5/00	Circumferential drive aerogenerator for mass production of electricity on high seas, has fulcrum formed by support of rotor, and aerogenerator jointly relieving aerogenerator with bearing structure and airborne aerogenerator
CN102536675 A 20120704	CN20101607820 20101227	SUZHOU INST OF BIOMEDICAL ENGINEERING AND TECHNOLOGY	F03D9/02; F03G7/00	Clean energy recycling system
CN202300874U U 20120704	CN20112418028U 20111028	CHUZHOU CONSTANT BOON PHOTOELECTRIC TECHNOLOGY CO LTD	F03D11/00	Cloud platform seat for automatic windward full-angle rotating generator

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CN102644552 A 20120822	CN20111045743 20110219	BEIHAI YINTONG BUSINESS CO LTD; ZHI LI	F03D9/00; F03D1/00; F03D1/04; F03D11/00	Cluster wind tunnel power tower
CN102748206 A 20121024	CN20121259968 20120725	ZHAOPING JIAO; GANG JIAO; XIANDI JIAO	F03D3/06	CNJT adjustable speed safe intelligent high-power vertical axis windmill sail
WO2012151815 A1 20121115	CN20111117320 20110509	TONG JIALIN [CN]	B60K16/00; F03D3/02	COAXIAL INCONGRUOUS ROTARY WINGS VEHICLE
KR20120090150 A 20120817	KR20110010386 20110205	PARK JAE HYUN [KR]	F03D1/04; F03D1/02	COCHLEATE AEROGENERATOR
CN102624140 A 20120801	CN20111035145 20110130	ZEXING GAO	H02K7/00; F03D9/00; H02K7/10	Cofrequency synchronization control apparatus and aerogenerator
CN102635507 A 20120815	CN20121123161 20120424	GUANGDONG MINGYANG WIND POWER INDUSTRY GROUP CO LTD	F03D9/00	Cold starting system of wind generating set
KR20120083751 A 20120726	KR20110005069 20110118	SAMSUNG HEAVY IND [KR]	B63B21/50; B63B35/44; E02D23/02; F03D9/00	COLLAPSIBLE-EXPANDIBLE FAIRING AND WIND TURBINE INSTALLATION VESSEL HAVE THE SAME
KR101186748B B1 20120928	KR20110130140 20111207	SONG WON GU [KR]	F03D3/04; F03D11/00	COLLECTION COVER FOR WIND POWER GENERATION APPARAUS AND WIND POWER GENERATION APPARAUS
CN202543876U U 20121121	CN20122198154U 20120504	ZHANPENG LI	E02B15/10; F03D9/00	Collection device for garbage on water
KR20120100637 A 20120912	KR20110019672 20110304	SAMSUNG HEAVY IND [KR]	B03C1/02; F03D7/04	COLLECTOR FOR METALLIC WASTE DISPOSAL AND SYSTEM FOR PITCH ANGLE CONTROL OF WIND TURBINE HAVING THE SAME
US2012267901 A1 20121025	US201113091989 20110421	MIASOLE [US]	F03D9/00; F03G6/06	COMBINATION PHOTOVOLTAIC AND WIND POWER GENERATION INSTALLATION
CN202493387U U 20121017	CN20122096832U 20120315	SHANGYU BEST VENTILATOR CO LTD	F03D11/00	Combination-type wind driven generator unit ventilating device

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CN102803712 A 20121128	WO2011DE00185 20110225; DE20101009647 20100227	EN GLOBALE GMBH	F03D1/04; F03D9/00	Combined cycle thermodynamic power plant
CN202309237U U 20120704	CN20112359827U 20110923	JIAHAO NEW ENERGY INVEST CO LTD	H02J15/00; F01K27/00; F03D9/00	Combined energy acquisition, integration, storage and application system
CN202431942U U 20120912	CN20122044900U 20120213	SHANGHAI MINTAI HYDRAULIC COMPONENTS CO LTD	F16H57/04; F03D11/00	Combined lubrication device of wind power gear boxes
CN102562464 A 20120711	CN20101605481 20101227	CHANGFU LI	F03D9/00; F03D1/06; H02N6/00	Combined type wind driven generator
CN202545107U U 20121121	CN2012290012U 20120312	UNIV ZHEJIANG TECHNOLOGY	F03D3/02; F03D3/06; F16D41/06	Combined vertical axis wind turbine
CN102734069 A 20121017	CN20111087198 20110407	UNIV TONGJI	F03D9/00; F03D1/02; H02J3/38; H02J7/00	Combined wind driven generator
CN202545122U U 20121121	CN20122186847U 20120427	DELTA OPTOELECTRONICS INC	F03D9/00; F03D1/06; F03D11/00	Combined wind generating set with replaceable components
CN102733638 A 20121017	CN20121241379 20120711	SHUGUANG LI; ZHANG SIOU; HARBIN HIGH POWER VERTICAL WIND POWER EQUIPMENT ENGINEERING TECHNOLOGY RES CT CO LTD	E04H12/00; E04H12/14; F03D3/04; F03D3/06; F03D9/00; F03D11/00	Communication tower with wind power generation system provided with double-power blades and wind leakage protection
EP2508753 A1 20121010	EP20110161449 20110407	SIEMENS AG [DE]; WINERGY AG [DE]	F03D11/00; F03D7/02	Compact drive-generator unit for wind turbines
CN202531361U U 20121114	CN20122101506U 20120319	TIANJIN XIANGWEI TRANSMISSION LTD	F03D11/00; F16H1/28	Compact wind power generation speed-increasing gearbox
KR20120095752 A 20120829	KR20110015263 20110221	KOREA OCEAN RES DEV INST [KR]	F03B13/26; F03B17/06; F03D3/06; F03D9/00	COMPLEX GENERATOR USING CURRENT AND WIND

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KR20120095751 A 20120829	KR20110015262 20110221	KOREA OCEAN RES DEV INST [KR]	F03B13/22; F03B13/14; F03D3/06; F03D9/00	COMPLEX GENERATOR USING WAVE AND WIND
KR101208116B B1 20121205	KR20110071069 20110718	KOREA OCEAN RES DEV INST [KR]	F03D11/04; H01L31/042	COMPLEX TYPE WIND POWER GENERATION PLANT FOR OCEAN
EP2483076 A1 20120808	WO2010US02656 20100930; US20090277934P 20091001	MILLIKEN & CO [US]	B32B23/00	COMPOSITE CORES AND PANELS
JP2012135994 A 20120719	JP20100291367 20101227	MITSUBISHI HEAVY IND LTD [JP]	B29C43/34; B29C43/12; B29C43/18; F03D11/00	COMPOSITE MATERIAL PANEL STRUCTURE AND METHOD FOR MANUFACTURING THE SAME
WO2012138445 A1 20121011	US201113066002 20110404	MILLIKEN & CO [US]; DAY STEPHEN W [US]; SHEPPARD MICHAEL S [US]; JONES JOHN P [US]; EWRY THOMAS J [US]; TILTON DANNY E [US]; STOLL FREDERICK [US]	B29C70/08; B29C70/86; B29D99/00; B32B5/02; B32B5/18; B32B5/24; B32B5/28; E04C2/20; E04C2/36; F03D1/06	COMPOSITE PANEL WITH REINFORCED CORE
CA2765435 A1 20120730	CN20111033463 20110130	SINOVEL WIND GROUP CO LTD [CN]	F03D11/00; G01L5/00; G01M7/02	COMPREHENSIVE ASSESSMENT SYSTEM AND ASSESSMENT METHOD FOR VIBRATION AND LOAD OF WIND GENERATING SET
CN202300862U U 20120704	CN20112397079U 20111018	ELECTRIC POWER RES INST OF JILIN ELECTRIC POWER CO LTD; JILIN ELECTRIC POWER RES INST CO LTD	F03D9/02	Compressed air electric energy storage device
KR20120072121 A 20120703	KR20100133930 20101223	KOREA INST GEOSCIENCE & MINERA [KR]	F03D9/00; F03D9/02; F03D11/00	COMPRESSED AIR ENERGY STORAGE AND ELECTRICITY GENERATION SYSTEMS CONNECTED WITH OFFSHORE WIND FARM

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KR20120072118 A 20120703	KR20100133927 20101223	KOREA INST GEOSCIENCE & MINERA [KR]	F03D9/00; F03D9/02	COMPRESSED AIR STORAGE AND ELECTRICITY GENERATING SYSTEM CONNECTED WITH OFFSHORE WIND FARM AND COMPRESSED AIR STORAGE TANK
US2012230835 A1 20120913	ES20090002248 20091127; WO2010ES00479 20101126	GAMON POLO VICENTE MARIA [ES]	F03D1/06	CONCAVE BLADE FOR A WIND GENERATOR
EP2525087 A2 20121121	US201113111023 20110519	GEN ELECTRIC [US]	F03D7/04; G05B17/00; G05B17/02; G05B23/02; G06F11/30; G06F17/50	Condition monitoring of windturbines
ES2390577T T3 20121114	EP20090382237 20091102	GEN ELECTRIC [US]	F03D11/02; F03D11/00	Configuraci¾n de g¾ndola de turbina e¾lica
WO2012128619 A2 20120927	NL20111038701 20110323	AQUA GUTTA B V [NL]; VAN DER VLIET KARL HANS [NL]	E03B3/28; F03D9/00; F04B35/00; F25B49/02	CONFIGURATION AND PROCESS FOR COMPRESSING A GAS
CN202370961U U 20120808	CN20112510049U 20111209	LIANYUNGANG ZHONGFU LIANZHONG COMPOSITES GROUP CO LTD	F16B35/00; F03D11/00	Connecting bolt at root part of fan blade
CN202326045U U 20120711	CN20112497834U 20111202	SINOVEL WIND GROUP CO LTD [CN]	F03D11/00	Connecting device for wind generator room cover
WO2012118186 A1 20120907	JP20110045761 20110302	NIPPON STEEL CORP [JP]; TAENAKA SHINJI [JP]; MATSUOKA KAZUMI [JP]; ISHIKAWA TADASHI [JP]	E02D5/28; E02D27/12; E02D27/32; E02D27/42; F03D11/04	CONNECTING STRUCTURE FOR CONNECTING STEEL PIPE PILE AND STEEL OUTER PIPE
CN102748246 A 20121024	CN20121249673 20120719	CHINAPOWER UNITED POWER TECHNOLOGY LIANYUNGANG CO LTD	F03D11/00	Connecting structure of fan blade and variable propeller bearing

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CN102678319 A 20120919	CN20111069045 20110310	SHENZHEN ANTUOSHAN SPECIAL ELECTROMECHANICAL CO LTD	F02B63/04; F01D15/10; F03B13/00; F03D11/00	Connecting structure of rare earth permanent magnet generator without iron core and diesel engine
EP2474747 A1 20120711	EP20110150396 20110107	F & G ENGINEERING GMBH [DE]	F16B2/08; B29C70/54; F03D1/06; F16B43/02; F16L3/12; F16L21/06; F16L33/04	Connection component for fibre compound elements
NL2006276C C 20120824	NL20112006276 20110222	ITOMFORCE INNOVATIONS B V	F03D1/02; F03D3/02	CONSTRUCTIE MET MEERVOUDIGE WINDTURBINE.
EP2513471 A2 20121024	AT20090000798U 20091216; WO2010AT00483 20101216	SCHABERL PETER [AT]	F03D1/04	CONSTRUCTION FOR THE ARRANGEMENT OF A WIND TURBINE
KR20120007529U U 20121101	KR20110003138U 20110413		F03D11/00; F03D3/06; H01L31/042	Vertical wind power generation Module and application idea
WO2012091104 A1 20120705	JP20100294197 20101228	MITSUBISHI HEAVY IND LTD [JP]; NAKAMURA SHIGEAKI [JP]; IWASAKI KAORU [JP]	F03D7/04	CONSTRUCTION TIME SELECTION DEVICE AND CONSTRUCTION TIME SELECTION METHOD
WO2012175914 A1 20121227	GB20110010317 20110620	PEACE STEVEN JOHN [GB]; MARSH PAUL ROBERT [GB]; HUNTER PETER CHRISTOPH [GB]	F03D3/00; F03D3/06; F03D7/02; F03D7/06	CONTROL APPARATUS AND METHOD FOR BLADE ALIGNMENTS ON A VERTICAL AXIS WIND TURBINE
KR20120093378 A 20120822	DE200920018040U 20091117	SSB WIND SYSTEMS GMBH & CO KG [DE]	F03D11/00; H01M10/42	CONTROL CABINET FOR A WIND TURBINE
DE102011104825 A1 20121220	DE201110104825 20110620	FRAUNHOFER GES FORSCHUNG [DE]	F03D5/00; F03D9/00	Control device for controlling kite-like flying body of aircraft system, has steering element rotatably arranged at base body around axis, which lies in plane that is perpendicularly cut by connecting passage between cable guide elements

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WO2012091102 A1 20120705	JP20100294142 20101228	MITSUBISHI HEAVY IND LTD [JP]; WAKASA TSUYOSHI [JP]; SHINODA HISANOBU [JP]; HASHIMOTO MASAYUKI [JP]; YAMASHITA YUKIO [JP]; NAKA TAKEHIRO [JP]; YASUGI AKIRA [JP]; NAKASHIMA TAKUMI [JP]	F03D7/04; F03D7/02; H02P9/00	CONTROL DEVICE FOR WIND POWER GENERATION DEVICE, WIND POWER GENERATION SYSTEM, AND CONTROL METHOD FOR WIND POWER GENERATION DEVICE
KR20120008364U U 20121205	KR20110004664U 20110527		F03D11/00; F03D11/04	Wind turbine foundation monitoring system with pressure sensor
CN102597507 A 20120718	WO2010JP69318 20101029	MITSUBISHI HEAVY IND LTD [JP]	F03D7/04	Control device for wind-powered electricity-generating device, wind farm, and control method for wind-powered electricity generating device
CN102644547 A 20120822	CN20121129352 20120421	SSB WIND ENERGY TECHNOLOGY QINGDAO CO LTD	F03D7/00	Control device of variable-pitch system and control method
CN102748218 A 20121024	CN20121272474 20120801	SINOVEL WIND GROUP CO LTD [CN]	F03D7/00	Control method and device of wind power generator set
EP2486272 A2 20120815	DK20090001106 20091008; DK20100070274 20100618; US20100356179P 20100618; US20090249885P 20091008; WO2010EP64666 20101001	VESTAS WIND SYS AS [DK]	F03D7/04	CONTROL METHOD FOR A WIND TURBINE
WO2012089211 A2 20120705	US20100980704 20101229	VESTAS WIND SYS AS [DK]; LAFFERTY WALLACE [US]; BYREDDY CHAKRADHAR [US]	F03D7/04; H02P9/04	CONTROL NETWORK FOR WIND TURBINE PARK

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US2012224965 A1 20120906	US201013509187 20101111; DK20090070199 20091111; US20090260416P 20091112; WO2010DK00149 20101111	VESTAS WIND SYS AS [DK]	F03D7/04	CONTROL OF WIND TURBINE BLADE LIFT REGULATING MEANS
DK201170731 A 20121211	DK20110070731 20111220	VESTAS WIND SYS AS [DK]	F03D7/02	Control of Wind Turbine Tower Oscillations
CN102536651 A 20120704	CN20121008977 20120112	SHANGHAI GHREPOWER GREEN ENERGY CO LTD	F03D7/00	Control system of permanent magnetic variable-pitch wind driven generation unit
CN202417819U U 20120905	CN20122013147U 20120112	SHANGHAI GHREPOWER GREEN ENERGY CO LTD	F03D7/00	Control system of permanent magnetic variable-pitch wind generating set
US2012261919 A1 20121018	US201213420134 20120314; US201113017375 20110131; WO2010JP69336 20101029; US20100409250P 20101102	MITSUBISHI HEAVY IND LTD [JP]	H02P9/04	CONTROL SYSTEM OF WIND POWER GENERATOR, WIND FARM, AND METHOD FOR CONTROLLING WIND POWER GENERATOR
CN102536656 A 20120704	US20100974567 20101221	GEN ELECTRIC [US]	F03D7/02	Control system, wind farm, and methods of optimizing the operation of a wind turbine
US2012256424 A1 20121011	US201013387731 20101228; WO2010US62272 20101228; US20090290396P 20091228	AWR ENERGY INC [US]	F03D9/00; F03D11/00	CONTROLLED, DIFFUSED, AND AUGMENTED WIND ENERGY GENERATION APPARATUS AND SYSTEM

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US2012211982 A1 20120823	WO2011JP54044 20110223	MITSUBISHI HEAVY IND LTD [JP]	H02P9/04	CONTROLLER FOR WIND TURBINE GENERATOR, WIND TURBINE GENERATOR, AND METHOD OF CONTROLLING WIND TURBINE GENERATOR
CN102536655 A 20120704	CN20121034057 20120215	SANY ELECTRIC CO LTD	F03D7/00; F03D9/00; F03D11/00	Controller, floating type wind driven generation unit and control method thereof
CN202560464U U 20121128	CN20102287678U 20100811; CN20112330969U 20110811	JIMING ZHOU	F03D7/06	Controlling device
LU92010 A1 20120925	WO2011CN00626 20110411; CN20101171988 20100514	GUANGXI YINHE WIND POWER CO LTD [CN]	F03D7/04	Controlling method for a wind turbine set under strong wind
EP2526293 A1 20121128	EP20100162190 20100506; EP20100159632 20100412; WO2010EP63612 20100916; EP20100757187 20100916	SIEMENS AG [DE]	F03D11/00; B64D15/12	CONTROLLING OF A HEATING MAT ON A BLADE OF A WIND TURBINE
EP2518308 A1 20121031	EP20110164254 20110429	SIEMENS AG [DE]	F03D7/04	Controlling the operation of a wind turbine based on a terrain class parameter value
WO2012123707 A1 20120920	GB20110004208 20110314	FLATT SIMON [GB]	F03D9/00; F03D9/02; F03G6/04	CONVECTION TURBINE RENEWABLE ENERGY CONVERTER
CN202431462U U 20120912	CN20112576384U 20111231	GUANGDONG MINGYANG WIND POWER INDUSTRY GROUP CO LTD	F03D11/04	Conveniently-dismounted novel wind driven generator tower

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WO2012177111 A2 20121227	MA20110033978 20110624	UNIV HASSAN II CASABLANCA [MA]; ENNAJI MOHAMED [MA]; SAADI JANAH [MA]	F03D3/00; F03D3/06	CONVERTIBLE, SELF-ADJUSTING, VERTICAL-AXIS WIND TURBINE COMBINING SAVONIUS AND DARRIEUS CONFIGURATIONS, AND HAVING A COMPOSITE BLADE SYSTEM
WO2012177112 A2 20121227	MA20110033977 20110624	UNIV HASSAN II CASABLANCA [MA]; ENNAJI MOHAMED [MA]; SAADI JANAH [MA]	F03B17/065; F03D3/061; F03D3/062; F03D3/067; F05B2210/16; F05B2240/212; F05B2240/213	CONVERTIBLE, SELF-ADJUSTING, VERTICAL-AXIS WIND TURBINE COMBINING SAVONIUS AND DARRIEUS CONFIGURATIONS, AND HAVING FOLDING BLADES
WO2012177110 A2 20121227	MA20110033976 20110624	UNIV HASSAN II CASABLANCA [MA]; ENNAJI MOHAMED [MA]; SAADI JANAH [MA]	F03B17/065; F03D3/067; F05B2210/16; F05B2240/212; F05B2240/213; F05B2240/31	CONVERTIBLE, SELF-ADJUSTING, VERTICAL-AXIS WIND TURBINE COMBINING SAVONIUS AND DARRIEUS CONFIGURATIONS, AND HAVING RETRACTABLE BLADES
US2012211993 A1 20120823	US201213458779 20120427; US201113028858 20110216; US20070974675 20071015	PAGLIASOTTI ROBERT R [US]	F03D9/00	CONVERTING WIND ENERGY TO ELECTRICAL ENERGY
EP2530312 A2 20121205	US201113152783 20110603	GAMESA INNOVATION & TECH SL [ES]	F03D11/00	Cooling and climate control system and method for an offshore wind turbine
KR20120109210 A 20121008	KR20110027586 20110328	ROH SOON CHANG [KR]	F24D15/04; F03D9/00; F24D5/02	COOLING AND HEATING SYSTEM USING INDUCTION HEATING DEVICE
KR20120119943 A 20121101	KR20110038123 20110424		H02K57/00; F03D9/00; H02K21/14	Generator of method using electromagnet and assistance permanent pole
CN102562478 A 20120711	EP20100189995 20101104	SIEMENS AG [DE]	F03D11/00	Cooling arrangement for a wind turbine

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KR20120119996 A 20121101	KR20120022380 20120305		F03D7/04; F03D1/06; F03D5/00; F03D11/00	WIND POWER GENERATOR
CA2776061 A1 20121106	EP20110165132 20110506	SIEMENS AG [DE]	F03D11/00; F03D1/00	COOLING ARRANGEMENT OF A WIND TURBINE
CA2771494 A1 20120918	CN20111066311 20110318	SINOVEL WIND GROUP CO LTD [CN]	H02K9/19; F03D1/00; H05K7/20	COOLING DEVICE USED FOR COOLING WIND TURBINE GENERATOR SYSTEM AS WELL AS WIND TURBINE GENERATOR SYSTEM
CN102619707 A 20120801	CN20121128013 20120427	DONGFANG TURBINE CO LTD DONGFANG ELECTRIC CORP	F03D11/00; F24F7/007; F24F13/28; H02K9/02	Cooling system for offshore wind power generation unit
CN202468176U U 20121003	CN20122005901U 20120109	JIANGSU NEW UNITED HEAVY INDUSTRY SCIENCE & TECHNOLOGY CO LTD	F03D11/00	Cooling system of wind turbine generator system
CN102661251 A 20120912	CN20121145663 20120510	CSIC CHONGQING SEA WINDPOWER EQUIPMENT CO LTD	F03D11/00	Corrosion-resistant cooling structure for offshore wind turbine
WO2012134044 A1 20121004	KR20110029521 20110331	SAMSUNG HEAVY IND [KR]; KIM KIHYUN [KR]; LEE JEONGSANG [KR]; OH EUN JUNG [KR]	F03D11/00; F03D1/06; F03D3/06	CORRUGATED PANEL FOR WIND POWER GENERATOR BLADE
CN102536678 A 20120704	CN20101623271 20101230	CHINA NAT OFFSHORE OIL CORP; OFFSHORE OIL ENG CO LTD	F03D11/00; F16F7/00	Coupled buffering device
WO2012174863 A1 20121227	CN20111175953 20110624	LEI YUENING [CN]; LEI SHENGQING [CN]	F03D9/00; F03D7/00	COUPLED CONVERGENCE POWER GENERATION APPARATUS FACING WIND
DK201270008 A 20121106	DK20120070008 20120103	VESTAS WIND SYS AS [DK]	F03D11/00	Coupling housing with service access
CN102530724 A 20120704	DE201020015616U 20101118	LIEBHERR WERK EHINGEN	B66C13/04; F03D11/00	Crane

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GB2487230 A 20120718	GB20110000654 20110117	GRANADA MATERIAL HANDLING LTD [GB]	B66C23/683; F03D1/00	Crane assembly for an offshore wind turbine
CN102705166 A 20121003	CN20121181150 20120521	GUOXIAN HU	F03D9/00; F03D1/00; F03D3/00	Cross double-fan blade wind energy generator
WO2012089908 A1 20120705	FI20100006374 20101228	NIEMI PERTTI [FI]	E04H12/10	CROSS HATCHING STRUCTURED MAST
KR20120102839 A 20120919	KR20110020682 20110309	INHA IND PARTNERSHIP INST [KR]	F03D9/00; F03B13/12; F03D11/00	CURRENT POWER DEVICE APPLIED TO OFFSHORE WIND POWER SYSTEM
KR20120102838 A 20120919	KR20110020681 20110309	INHA IND PARTNERSHIP INST [KR]	F03D11/00; F01D5/14; F03B13/12	CURRENT POWER TURBINE BLADE
WO2012128539 A2 20120927	KR20110025097 20110322	KIM YONG TAK [KR]	F03D3/02; F03D11/00; F03D11/02; F03D11/04	CURTAIN-SUSPENSION-TYPE POWER-GENERATING APPARATUS
CN102678466 A 20120919	CN20121164832 20120525	LINGUI ZHONG	F03D9/00; F03D1/04; F03D7/04	Cyclone-type wind power generation wind tunnel
WO2012097472 A1 20120726	WO2011CN00090 20110120	GREAT PROMISE INTERNAT LTD [CN]; CHAU KINWANG [CN]	F03D3/04; F03D11/00	CYCLONIC WIND POWER GENERATOR
DE102011019002 A1 20121031	DE20111019002 20110428	IMO HOLDING GMBH [DE]	F03D11/04	Cylindrical or annular energy transmission component for use as part of e.g. wind energy plant for transmission of energy from e.g. mechanical forces, has bearing rings coupled or linked with drive side or with hub of wind energy plant
MX2012002822 A 20121001	KR20090083907 20090907; WO2010KR06015 20100903	RYU BYUNG-SUE [KR]	F03D3/06; F03D11/00	CYLINDRICAL WINDMILL FOR WIND POWER GENERATION.
DE202011104180U U1 20121123	DE201120104180U 20110809	KESSLER MAURICE [DE]; VANETTA GINO [DE]	F03D11/04	Dachwindenergieanlage auf einem Dachfirst eines Gebõudes montiert
RU2466296 C1 20121110	RU20110113521 20110407	OOO IR NII LESNOJ PROMY [RU]	F03D1/02	DAISY-CHAIN WIND-DRIVEN POWER PLANT

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CN102706392 A 20121003	CN20121198449 20120616	WUXI TONGCHUN NEW ENERGY TECH	G01D21/02; F03D9/00; H02J7/00; H02J9/00	Dam observation instrument with power supply of wind-light compensation power-generating system
KR20120107753 A 20121004	KR20110025464 20110322	EEGEN CO LTD [KR]	F03D11/00; F03D11/02	DAMPER AND WIND GENERATOR HAVING THAT
CN202300878U U 20120704	CN20112450835U 20111115	YUNLONG SUN	F03D11/04; F16F7/00	Damping and muffling device of vertical axis wind driven generator
CN102801380 A 20121128	CN20121307137 20120824	GUODIAN UNITED POWER TECH CO [CN]	H02P9/00; F03D7/00	Damping torque correction control method and device for transmission chain of wind generation set
CN202402220U U 20120829	CN20112531493U 20111216	JIANGSU JINFENG JIATE ELECTROMECHANICAL CO LTD	F03D11/00	Damping wind power generation tower
EP2502174 A1 20120926	US20090261473P 20091116; WO2010US56850 20101116	NRG SYSTEMS INC [US]	G06F19/00; F03D7/04; F03D11/00; G05B23/02	DATA ACQUISITION SYSTEM FOR CONDITION-BASED MAINTENANCE
CN102654104 A 20120905	JP20110045534 20110302	AU OPTRONICS CORP	F03D11/02; F16H1/28	Deceleration device for wind power generating apparatus and deceleration device provided with output pinion
KR20120094238 A 20120824	KR20110013606 20110216	HYUN DAI HEAVY IND CO LTD [KR]	H02J3/38; F03D9/02; H02J9/06	DECREASING THE STANDBY POWER FOR WIND TURBINE GENERATOR SYSTEM
CN202555126U U 20121128	CN20122121109U 20120328	CHAOZHONG ZHANG	B01D50/00; F03D9/00	Dedusting and wind power generation device
CN102635482 A 20120815	CN20111041079 20110212	MINGMAO WU	F03B13/00; B63B38/00; F03B3/00; F03B13/14; F03D3/00; F03D9/00	Deep sea floating type offshore generation platform for synchronously collecting sea wind, sea wave and sea current energies
CN102619705 A 20120801	CN20121124178 20120425	GUODIAN UNITED POWER TECH CO [CN]	F03D11/00	Deflection resistant wind wheel vane with reinforcing rib structure of wind driven generator
CN202545139U U 20121121	CN20122180178U 20120425	GUODIAN UNITED POWER TECH CO [CN]	F03D11/00	Deflection-resistant wind turbine wind wheel blade with reinforcing rib structure

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CN202381265U U 20120815	CN20112519694U 20111213	EULIKIND TIANJIN CO LTD	F03D11/00	Defrosting device of glass fiber reinforced plastic wind power engine cabin cover
KR101165274B B1 20120719	KR20110072655 20110721	SHIN HYUN SOO [KR]	E01F9/06; F03D9/00; F21S9/02	DELINEATOR BY USING AEROGENERATOR
GR20110100005 A 20120903	GR20110100005 20110107	AGAPAKIS EMMANOUIL MICHAIL [GR]	F03D7/02; F03D1/06	DEPLOYMENT AND RETRACTION OF A TRIANGULAR SAIL OPERATING AS A WIND MILL BLADE
ES2391348 A1 20121123	ES20120031174 20120723	ORFILA MARQUES JERONIMO [ES]	F03D7/02	Desacelerador de turbina e¾lica
CN102588221 A 20120718	CN20121052296 20120301	UNIV NORTH CHINA ELEC POWER	F03D11/00	Design method for simplifying wind power blade main beam structure
CN102588220 A 20120718	CN20121052172 20120301	UNIV NORTH CHINA ELEC POWER	F03D11/00	Design method of wind power blade in view of pneumatic and structural balance
CN102650400 A 20120829	CN20111045474 20110225	SHANGHAI NAIMIPAI IND CO LTD	F21S9/04; F03B7/00; F03B13/00; F03D1/00; F03D9/00; F21V19/00; F21V23/04	Desk lamp
EG25950 A 20121112	WO2009GB50190 20090225; GB20080004570 20080312	JOHNSON MATTHEY PLC [GB]	B01J23/80; C10G45/04	Desulphurisation materials
CN202531362U U 20121114	CN20122146330U 20120410	TIANJIN WANDE WIND POWER EQUIPMENT FITTINGS CO LTD	F03D11/00; E05C19/00; E05D3/06; E05D7/10; E06B3/36; E06B7/16	Detachable hatch cover
EP2472238 A1 20120704	EP20100197278 20101229	SIEMENS AG [DE]	G01H1/00; F03D11/00	Determination of a vibrational frequency of a wind turbine rotor blade with a sensor device being placed at a structural component being assigned to and/or being part of the rotor

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GB2491045 A 20121121	GB20110010003 20110614; GB20110008476 20110520; GB20110010360 20110620	ROMAX TECHNOLOGY LTD [GB]	F03D11/00	Determining damage to, or remaining useful life of, rotating machinery eg drive trains, gearboxes and generators of wind and water turbines
CN102635510 A 20120815	CN20121115789 20120419	UNIV JIANGSU	F03D9/02; F03B13/14; F04B35/04	Device and control method for preparing wind energy, ocean energy and solar energy
WO2012140267 A1 20121018	DE201110007440 20110414	SUZLON ENERGY GMBH [DE]; IBENDORF INGO [DE]; VILBRANDT REINHARD [DE]	F03D7/02; F03D11/00	DEVICE AND METHOD FOR DETERMINING A BLADE POSITION AND FOR ENDING A SAFETY RUN
KR20120113340 A 20121015	KR20110031002 20110405	MEGABESS INC [KR]; KANG JEONG WOOK [KR]	F03D11/00; H02J3/02; H02P9/04	DEVICE AND METHOD FOR LOW VOLTAGE RIDE THROUGH OF WIND GENERATOR
CN102770664 A 20121107	WO2011EP00606 20110209; DE20101009863 20100302	BOSCH GMBH ROBERT [DE]	F03D11/00; F03D7/02; F16F15/02	Device and method for reducing loads
EP2481924 A1 20120801	EP20110382021 20110201	ALSTOM WIND S L U [ES]	F03D11/00	Device and method for visual analysis of a wind turbine blade
US2012292915 A1 20121122	US201013502932 20101022; US20090254133P 20091022; WO2010US53810 20101022	UNIV CORNELL [US]	F03D9/00	DEVICE AND SYSTEM FOR HARVESTING ENERGY
DK177336B B1 20130121	DK20110070173 20110412	COMPOENERGY APS [DK]	F03D3/04; F01D1/02; F03B17/06	Device and system for harvesting the energy of a fluid stream comprising

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FR2970047 A1 20120706	FR20110000025 20110105	COURGEON OLIVIER [FR]	F03D3/06; F03D7/06	Device e.g. vertical axis wind turbine, for deploying blades according to thrust of wind and folding blades during upwind, for transmitting power to electric generator, has gear rims whose simultaneous revolution create variable distance
KR20120118589 A 20121029	KR20110036037 20110419	ADTECS CO LTD [KR]	F16C43/06; F03D11/00; F16C19/06; F16C43/04	DEVICE FOR ASSEMBLING LARGE SLEWING BEARING FOR WIND POWER GENERATOR AND METHOD FOR ASSEMBLING THE BEARING
EP2536881 A1 20121226	EP20100164284 20100528; WO2010EP67927 20101122; EP20100784753 20101122	SIEMENS AG [DE]	E02D5/80; E02D7/24; E02D27/42; E02D27/52; F03D1/00	DEVICE FOR ASSISTING IN INSTALLING A PILE IN THE SEABED, OFFSHORE FOUNDATION STRUCTURE AND METHOD OF ESTABLISHING AN OFFSHORE FOUNDATION
CN102678477 A 20120919	CN20121138828 20120426	RISHENG SONG	F03D11/00	Device for collecting natural energy resources
EG26033 A 20121213	EP20090171936 20091001	VOITH PATENT GMBH [DE]	B61G11/12; B61G9/04	Device for damping tractive and compressive forces
US2012217089 A1 20120830	DK20090001164 20091028; WO2010DK50289 20101028	LIFTRA APS [DK]	F03D11/00; B66B11/06	DEVICE FOR ESTABLISHING ADMITTANCE AND TRANSPORT OF CARGO TO AND FROM A WIND TURBINE CONSTRUCTION ABOVE GROUND LEVEL
DE102011075500 A1 20121115	DE20111075500 20110509	LABIN MAREK [DE]	F03D9/00; F03D9/02	Device for generating electric energy converted to electric power produced from e.g. nuclear power plant, has lever arms whose sides are provided opposite to sides of rotatable shaft and with sides of lever arm drive units
RS20100495 A2 20120831	RSP20100495 20101116	MILEV DEJAN [RS]	F03D9/00	DEVICE FOR GENERATING ELECTRICITY (IMPOSSIBLE MACHINE)

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CN202493383U U 20121017	CN20122085491U 20120309	WUXI INST OF COMMERCE	F03D9/00	Device for generating electricity by utilizing wind power of air conditioner
EP2484899 A1 20120808	DE201110010929 20110203	PETERSEN OLAF [DE]	F03D3/06	Device for generating energy from flowing media
DE102011110280 A1 20121227	DE201110110280 20110621	HOCHSCHULE BREMEN [DE]	F03D1/06	Device for hindering cross-flow of flow medium on surface of wing profile i.e. rotor blade, for e.g. wind energy plant, has channel for producing barrier from medium, where device is aligned transverse to longitudinal direction of profile
CN202417828U U 20120905	CN20112543875U 20111222	LUOYANG WEIQI SOLAR ENERGY TECHNOLOGY CO LTD	F03D9/00; F03D5/00	Device for improving wind power generation efficiency
EP2517863 A1 20121031	JP20090296149 20091225; WO2010JP73368 20101224	MITSUBISHI HEAVY IND LTD [JP]	B29C70/06; F03D11/00	DEVICE FOR LAMINATING REINFORCEMENT FIBER BASE MATERIAL AND METHOD FOR LAMINATING SAME
AU2012201011 A1 20120906	BE20110000122 20110222	GEOSEA N V	F03D11/04; E02B17/02; E02D27/12; F03D11/00	Device for manufacturing a foundation for a mass located at height, associated method and assembly of the device and a jack-up platform
AU2012201012 A1 20120906	BE20110000119 20110222	GEOSEA N V	E02D27/12; E02B17/02; F03D11/00; F03D11/04	Device for manufacturing a foundation for a mass located at height, associated method and assembly of the device and a jack-up platform
DE102011003378 A1 20120802	DE201110003378 20110131	REPOWER SYSTEMS SE [DE]	B29C70/00; B29C70/44; B29C70/48; B29C70/54; F03D1/06	Device for manufacturing component for rotor blade of wind turbine, comprises manufacturing mold for receiving fiber material, flow aid, and suction unit for generating negative pressure in manufacturing mold

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WO2012168460 A1 20121213	FR20110001764 20110609	RAFFIN MICHEL [FR]	F03D9/00; F03D9/02; F04B9/123; F04B9/129; F04B17/02; F04B23/06	DEVICE FOR RAISING WATER IN A POWER TRANSFER STATION, AND POWER
FR2974154 A3 20121019	FR20110001181 20110415	GAUDE KEVIN [FR]; MICHAUX VINCENT [FR]; HAURAT DAMIEN [FR]; BENKHAIRA YOUSSEF [FR]; ABASSI SOPHIA [FR]	F03D1/04; F03D3/04	Device for recovering and converting wind forces into electrical energy in e.g. geographical zones, has guide fixed by small end to air acceleration system that accelerates flow of air arrived in inlet located on outer surface of cylinder
WO2012127334 A1 20120927	IT2011VI00015U 20110228	REEL SRL [IT]; AUTEC S R L [IT]; BERTOTTO EZIO [IT]; BONAN ALESSANDRO [IT]; SILVESTRI ANTONIO [IT]	F03D7/04	DEVICE FOR REMOTE CONTROLLING AN ENERGY GENERATOR PLANT AND GENERATOR COMPRISING THE DEVICE
DE102011102325 A1 20121129	DE201110102325 20110525	WAGNER PHILIPP [DE]	F03D1/00; F03D11/04	Device for retaining generator nacelles of wind power plant, has actuated connection that is connected between generator nacelles and tower shaft to freely rotate around tower shaft
WO2012146382 A1 20121101	DE201110019002 20110428; DE201110019001 20110428	IMO HOLDING GMBH [DE]	F16H1/22; F03D9/00	DEVICE FOR TRANSMITTING ROTATIONAL ENERGY, AND WIND ENERGY PLANT WHICH IS EQUIPPED THEREWITH
CN102748240 A 20121024	CN20121189657 20120611	QIUDONG WEI	F03D11/00	Device for transporting wind power vanes in mountain region
EP2516848 A2 20121031	DE200910060437 20091222; WO2010DE01515 20101219	ITEA ECOTECH GMBH [DE]	F03D5/04; F03D3/06	DEVICE FOR USING FLOW ENERGY
WO2012116678 A1 20120907	DE201120003442U 20110302	SCHMITT SIEGFRIED [CH]	F03D3/00; F03D3/02; F03D3/06	DEVICE FOR USING WIND POWER HAVING AT LEAST ONE ROTOR
HU1100192 A2 20121029	HU20110000192 20110407	MEZEY GYULA DR [HU]	F03B17/06; F03D5/06; H01L41/08	DEVICE FOR UTILIZING ENERGY OF A STREAMING FLUID

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KR20120114066 A 20121016	KR20110031816 20110406	MIRTECH R & D [KR]; MIRTECH CO [KR]	F03D9/00; F03D3/00; F24F7/00	DEVICE FOR VENTILATION AND WIND FORCE
EP2535566 A1 20121219	FR20110001841 20110616	LAMY JACKY [FR]	F03D3/06	Device for vertical wind-turbine blades
US2012269628 A1 20121025	US201213541671 20120704; US201113081460 20110406	LIU KUO-SHEN [TW]	F03D11/04; F03D1/00	Device of Floating Wind Turbine Capable of Counterbalancing Torques Therein
US2012256423 A1 20121011	US201113081460 20110406	LIU KUO-SHEN [TW]	F03D9/00	DEVICE OF FLOATING WIND TURBINE CAPABLE OF COUNTERBALANCING TORQUES THEREIN
CN102725515 A 20121010	WO2010NO00471 20101217; NO20090003591 20091223; NO20100000589 20100423	NADER HASSAVARI	F03B13/14; E02B9/08; F03B13/18; F03D9/00	Device of power plant
CN202510294U U 20121031	CN20122160318U 20120417	RENERGY ELECTRIC SUZHOU CO LTD	F03D11/00	Device used for installing wind power variable propeller driver
US2012187684 A1 20120726	US201213357145 20120124; US201161436275P 20110126	KAWAS PERCY [US]; KAWAS GULNAR [US]	F03D9/02	DEVICE, SYSTEM AND METHOD TO LOWER STARTING TORQUE FOR ELECTRICAL SYSTEM
CN202483803U U 20121010	CN20112531599U 20111217	SHANGHAI GHREPOWER GREEN ENERGY CO LTD	F03D11/00	Diagonal pull rod tower for wind driven generator
GB2489718 A 20121010	GB20110005779 20110405	ANAKATA WIND POWER RESOURCES S A R L [CH]	F03D1/04; F03D1/02	Diffuser augmented wind turbines
GB2490170 A 20121024	GB20110006823 20110421	ANAKATA WIND POWER RESOURCES S A R L [CH]	F03D1/04	Diffuser-augmented wind turbines

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KR20120101812 A 20120917	KR20110019849 20110307	UNISON TECHNOLOGY CO LTD [KR]	F03D11/00; F03D11/02	DIRECT CONNECTING TYPE VIBRATION REDUCING APPARATUS FOR GEAR BOX OF WIND POWER GENERATOR
CN202550587U U 20121121	CN20122172404U 20120420	GUODIAN UNITED POWER TECH CO [CN]	H02J3/38; F03D7/00; F03D9/00	Direct drive type grid-connected wind generating set
CN102769374 A 20121107	CN20121159920 20120522	GUODIAN UNITED POWER TECH CO [CN]	H02K55/04; F03D9/00	Direct drive type wind turbine generator system
KR20120115372 A 20121017	EP20100000194 20100111	SIEMENS AG [DE]	F03D11/00; F03D11/02; F16C37/00	DIRECT DRIVE WIND TURBINE WITH A COOLING SYSTEM
KR20120120195 A 20121101	WO2010EP52681 20100303; EP20090015262 20091209		F03D11/00; H02G13/00; H02K11/00	LIGHTNING PROTECTION SYSTEM FOR A WIND TURBINE AND WIND TURBINE WITH A LIGHTNING PROTECTION SYSTEM
CA2775534 A1 20121103	EP20110164589 20110503	SIEMENS AG [DE]	F16C37/00; F03D11/00; F16C41/00	DIRECT DRIVE WIND TURBINE WITH A THERMAL CONTROL SYSTEM
WO2012107192 A2 20120816	EP20110000939 20110207	XEMC VWEC B V [NL]; VERSTEEGH CORNELIS JOHANNES ANTONIUS [NL]; TREUR GERARD ALBERT JACOBUS [NL]	F03D1/00; F03D11/00	DIRECT DRIVE WIND TURBINE WITH SLIP RING
US2012268081 A1 20121025	US201113273558 20111014; EP20080163325 20080829; WO2009EP61150 20090828; US20080093864P 20080903	VESTAS WIND SYS AS [DK]	H02P9/26	DIRECT POWER AND STATOR FLUX VECTOR CONTROL OF A GENERATOR FOR WIND ENERGY CONVERSION SYSTEM
CN202431448U U 20120912	CN20122026607U 20120119	SINOVEL WIND GROUP CO LTD [CN]	F03D9/00; F03D7/00; F03D11/04	Direct torque control-based wind turbine generator system

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US2012306212 A1 20121206	WO2009ES70639 20091230	SARMIENTO MUNOZ GUSTAVO [ES]; MERINO AZCARRAGA JOSE MARIA [ES]; GARCIA-TEJEDOR PEREZ JAVIER [ES]; IBANEZ ERENO PEDRO [ES]; APINANIZ APINANIZ SUSANA [ES]; SCUOTTO MATTIA [ES]	F03D9/00	DIRECT-ACTION SUPERCONDUCTING SYNCHRONOUS GENERATOR FOR A WIND TURBINE
CN102638056 A 20120815	CN20121118758 20120420	GUODIAN UNITED POWER TECH CO [CN]	H02J3/38; F03D7/00; F03D9/00	Direct-drive type grid-connected wind generating set
KR20120120540 A 20121102	KR20110038151 20110425		F03D1/06; F03D7/04; F03D11/00	WIND COURSE BACK PELLING GENERATER CLOSING AND OPENING WINGS BY THE SELF CENTRIFUGAL FORCE
US2012169062 A1 20120705	US201213415420 20120308; US20100805659 20100812; WO2010JP57613 20100428	MITSUBISHI HEAVY IND LTD [JP]	F03D9/00	DIRECT-DRIVE WIND TURBINE GENERATOR
EP2503147 A1 20120926	ES20090002201 20091120; WO2010ES00468 20101118	GAMESA INNOVATION & TECH SL [ES]	F03D9/00; F03D11/00	DIRECTLY ACTUATED POWER TRAIN FOR A WIND TURBINE
CN102748695 A 20121024	CN20111106297 20110422	WEIXING SU	F21S9/03; F03D9/00; F21V15/00; F21V17/00	Disc-type vertical-shaft solar-light generating illuminating lamp with lightning-protection indicating lamp
CN202541338U U 20121121	CN20112468853U 20111122	SHANGHAI FENGJING MIDDLE SCHOOL	B60L8/00; B60K16/00; F03D9/00	Disc-type wind wheel sail-generating intelligent South Pole vehicle
CN102801360 A 20121128	CN20121320159 20120901	UNIV ZHEJIANG NORMAL	H02N2/18; F03D9/00	Disk cam excited and limited high-power rotary piezoelectric wind generator

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EP2535562 A1 20121219	CN201019114069 20100208; WO2010CN00958 20100628	NAT WIND ENERGY CO LTD [CN]	F03D3/04; F03D7/06	DISPLACEMENT MECHANISM OF ENERGY-INCREASING WING FOR VERTICAL AXIS WIND POWER GENERATOR
CN102737545 A 20121017	CN20111092946 20110412	WEIXING SU	G09F7/00; F03D9/00; G09F13/02	Display panel with wind and solar power generation devices
BRPI1101091 A2 20120821	EP20100157977 20100326	SIEMENS AG [DE]	F03D7/00	disposição para direcionar uma corrente de iluminação dentro de uma turbina eólica
ES2392683T T3 20121212	WO2002DK00729 20021101	VESTAS WIND SYS AS [DK]; VESTAS WIND SYS AS [DK]	H02P9/00; F03D9/00; H02P9/42	Disposici¾n de circuito para su uso en un sistema de turbina e¾lica de velocidad variable que comprende un generador de inducci¾n de doble alimentaci¾n y un convertidor reversible
ES2392215T T3 20121205	EP20090014635 20091124	SIEMENS AG [DE]	F03D11/00	Disposici¾n de una g¾ndola con un radiador extensible
ES2392214T T3 20121205	EP20090014634 20091124	SIEMENS AG [DE]	F03D11/00	Disposici¾n de una g¾ndola de turbina e¾lica con un instrumento
ES2392216T T3 20121205	EP20090014850 20091130	SIEMENS AG [DE]	B66F9/065; B60P3/40; B62D53/06; F03D1/00	Disposici¾n para el transporte de componentes de turbina e¾lica
FR2972421 A1 20120914	FR20110052014 20110311	NASS & WIND IND [FR]	B63B21/50; F03D11/04	DISPOSITIF FLOTTANT AVEC SYSTEME D'ANCRAGE PARTICULIER
ES2393329 A1 20121220	ES20120001073 20121022	UNIV LA RIOJA [ES]	F03D1/06	Dispositivo hiper-hipo sustentador para la regi¾n de la raÝz de una pala de aerogenerador
WO2012122004 A2 20120913	US201161449578P 20110304	HUGO RONALD J [CA]; KEITH DAVID W [US]; MOHAMADABADI HOSSEIN SAFAEI [CA]	F03D9/00; F01D1/00; F03D9/02	DISTRIBUTED COMPRESSED AIR ENERGY STORAGE SYSTEM AND METHOD
KR20120075138 A 20120706	KR20100137179 20101228	JUNSUNG E & R CO LTD [KR]	H02J3/38; F03D9/02; H02J7/35	DISTRIBUTED ELECTRICITY GENERATING SYSTEM WITH INVERTER IN WINDOW FRAME

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CN102619683 A 20120801	CN20111033456 20110130	SINOVEL WIND GROUP CO LTD [CN]	F03D7/00	Distributive control system for pitch control and yawing of wind power generator
CN102678469 A 20120919	CN20121174945 20120530	UNIV CHINA AGRICULTURAL	F03D9/00; F03D3/04; F03D7/06	Diversion type vertical shaft wind turbine
CN202324912U U 20120711	CN20112468152U 20111121	SHANGHAI TAISHENG WIND POWER EQUIPMENT CO LTD	E05B67/06; E05B3/00; E05B17/08; E06B7/16; F03D11/00	Door lock device for wind turbine tower
TW201231777 A 20120801	DE201010043436 20101104	WOBBEN ALOYS [DE]	E05B65/00; F03D11/00	Door locking arrangement
CN202391662U U 20120822	CN20112544330U 20111223	JIANGSU HAILI WIND POWER EQUIPMENT TECHNICAL CO LTD	F03D11/00	Door of wind generating equipment pylon in intertidal zone
AU2011254036 A1 20120705	US20100969976 20101216	GEN ELECTRIC [US]	F03D11/00; E04H12/00; E06B1/04; F03D11/04	Doorway for a wind turbine tower
EP2501946 A1 20120926	EP20100192048 20101122; WO2011EP62058 20110714; EP20110732451 20110714	SIEMENS AG [DE]	F16C19/38; F03D11/00; F16C33/60	DOUBLE ROW TAPERED BEARING ASSEMBLY AND WIND TURBINE
CN202348579U U 20120725	CN20112499984U 20111201	HUADONG ZHANG	F03D9/00; F04B17/02	Double wind wheel water pumping generating device
CN202493381U U 20121017	CN20122031445U 20120201	GUANSHUN LIU	F03D9/00; F03D3/00; F03D3/06; H02K11/00	Double-airflow wind driven generator
CN102536672 A 20120704	CN20121022112 20120201	GUANSHUN LIU	F03D9/00; F03D3/00; F03D3/06; H02K11/00	Double-airflow wind-power generator
CN202431436U U 20120912	CN20122004219U 20120106	XIYUAN WU	F03D3/06; F03D9/00; F24F7/08	Double-blade wind driven generator
CN102748249 A 20121024	CN20121241454 20120709	SHENGZHOU YUANJIAN MACHINERY TECHNOLOGY CO LTD	F03D11/02	Double-blade wind energy transmission mechanism

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CN202417813U U 20120905	CN20112547527U 20111224	HUZHOU SHENLAN COMP TECHNOLOGY DEV CO LTD	F03D3/06; F03D9/00	Double-curvature strong-wind-resistant wind power generator blade
CN102797647 A 20121128	CN20121316946 20120830	GUANGDONG MINGYANG WIND POWER INDUSTRY GROUP CO LTD	F03D11/04	Double-deck supporting connection structure of tower drum of wind driven generator and jacket foundation
CN102619678 A 20120801	CN20111030322 20110128	QUAN MA	F03D3/06; F03B3/12; F03B13/26; F03D9/00	Double-drum flow power turbine
CN102787978 A 20121121	CN20121204028 20120620	SHIWU LUO	F03D9/00; H02N2/18	Double-effect piezoelectric wind wheel generator
CN202300829U U 20120704	CN20112388232U 20111004	UNIV QINGDAO TECHNOLOGICAL	F03D1/06	Double-fan-blade wind-driven generator
CN202545118U U 20121121	CN20122119113U 20120327	SHANGHAI MUNICIPAL ELEC POWER; EAST CHINA ELECTRIC POWER RES INST CO LTD	F03D9/00; H02J3/18; H02J3/38	Double-fed wind generation set
KR20120100228 A 20120912	KR20110018989 20110303	LS CABLE LTD [KR]	H02P9/08; F03D9/00; H02J3/32; H02M7/48	DOUBLE-SIDED CONVERTER FOR INITIAL OPERATING IN WIND TURBINE, APPARATUS AND METHOD FOR INITIAL OPERATING USING THE SAME
WO2012159227 A1 20121129	CN20111131637 20110520	GUODIAN UNITED POWER TECH CO [CN]; XIAO SHANCAI [CN]; SHI WENJIANG [CN]; LIU JINGBO [CN]; QIN MING [CN]; MA LIHONG [CN]	H02K16/04; F03D9/00; H02K5/16; H02K5/173	DOUBLE-STATOR PERMANENT MAGNETIC DIRECT-DRIVEN WIND POWER GENERATOR
CN102588863 A 20120718	CN20111008791 20110114	SHANGHAI TAILOR STEEL STRUCTURE ENGINEERING CO LTD	F21S9/03; F03D9/00; F21S9/04; F21V23/00	Double-way wind-source wind-solar hybrid streetlight
WO2012123019 A1 20120920	WO2011EP53844 20110315	3E [BE]; DE BROE ALEX [BE]; DUFFEY THOMAS [BE]; PICOT NATALIE [BE]	F03D7/04	DOWNWIND TURBINE WITH FREE YAW SYSTEM

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TW201229388 A 20120716	JP20100198443 20100906	HITACHI LTD [JP]; FUJI HEAVY IND LTD [JP]	F03D9/02	Downwind type wind turbine
CN102748232 A 20121024	CN20121252233 20120719	JIANGSU YUANZHONG DC MICROGRID CO LTD	F03D9/00; F03D3/06; F03D11/00; H02K7/14; H02K7/18	Drag-lift type composite medium-sized magnetic suspension wind driven generator
CN102619680 A 20120801	JP20100268829 20101201	MARUYOSHI SHOKAI CO LTD	F03D3/06	Drag-type wind turbine for wind-driven electricity generators and wind-driven electricity generators using drag-type wind turbine
DE102011078080 A1 20121227	DE20111078080 20110627	SCHAEFFLER TECHNOLOGIES AG [DE]	F16H19/00	Drehverbindung
CN102691618 A 20120926	CN20111081998 20110325	CHANGQING XIE	F03D3/02; F03D3/04; F03D11/00	Drift current type horizontal-column-shaped wind energy machine
CN202510284U U 20121031	CN20112508291U 20111208	UNIV KUNMING SCIENCE & TECH	F03D9/00; F03D11/00	Drink bottle wind power generation device
WO2012136809 A1 20121011	FR20110052940 20110405	CONVERTEAM TECHNOLOGY LTD [GB]; PERMUY ALFRED [FR]	H02J3/38; F03D9/00; H02H7/06; H02P9/00	DRIVE CHAIN COMPRISING A DOUBLY-FED ELECTRIC MACHINE AND A BAND-STOP FILTER CONNECTED BETWEEN AN INVERTER AND THE ROTOR OF THE MACHINE
WO2012136814 A1 20121011	FR20110052938 20110405	CONVERTEAM TECHNOLOGY LTD [GB]; PERMUY ALFRED [FR]	H02J3/38; F03D9/00; H02H7/06; H02P9/00	DRIVE CHAIN COMPRISING A DOUBLY-FED ELECTRIC MACHINE AND AN INVERTER CONTROLLED ACCORDING TO A LAW LIMITING THE DELIVERED ACTIVE POWER
EP2525091 A2 20121121	DE201110101823 20110517; DE20111081861 20110831	WINERGY AG [DE]	F03D11/02	Drive system for a wind turbine
EP2508754 A1 20121010	EP20110002782 20110404	SIEMENS AG [DE]	F03D11/02	Drive system for a wind turbine

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DE102011012437 A1 20120830	DE201110012437 20110225	POWERWIND GMBH [DE]	F03D11/04	Drive train arrangement for wind energy plant, has drive train element placed rotatable around rotor axis running by rotor in direction on generator and another torque proof drive train element connected with former drive train element
AU2010317919 A1 20120705	DE200910053757 20091120; DE200910052809 20091113; WO2010EP67518 20101115	SUZLON ENERGY GMBH	F03D11/02; F16H1/28	Drive unit for a wind turbine
KR20120110792 A 20121010	KR20110028901 20110330	LEE DAL JOO [KR]	F03D11/02; F03D3/00	DRIVER OF WIND POWER GENERATOR
EP2472110 A2 20120704	US20100981652 20101230	GEN ELECTRIC [US]	F03D11/02	Drivetrain for generator in wind turbine
CN102562488 A 20120711	US20100957770 20101201	GEN ELECTRIC [US]	F03D11/02	Drivetrain for generator in wind turbine
CN102748224 A 20121024	CN20111099330 20110420	UNIV TIANJIN TECHNOLOGY	F03D9/00; F03D1/04; F03D1/06	Drum-type wind driven generating device
GB2487302 A 20120718	GB20110000592 20110114	ROMAX TECHNOLOGY LTD [GB]	F03D1/02; F03B13/26; F03B17/06	Dual rotor wind or water turbine with a planetary gearbox
CN102537044 A 20120704	CN20101604112 20101224	DALIAN METALLURG BEARING CO LTD	F16C32/00; F03D11/00; F16C32/06	Dual-angle supporting oil film bearing of wind-power spindle
CN102758739 A 20121031	CN20121263981 20120725	SHENGZHOU YUANJIAN MACHINERY TECHNOLOGY CO LTD	F03D9/00; F03D1/02; F03D7/04	Dual-blade wind generator with wind rudder
CN102678464 A 20120919	CN20121137932 20120504	WEIWU ZHOU	F03D9/00; F03D7/00; F03D11/00	Dual-cyclone wind power generation device
CN102635496 A 20120815	CN20111036903 20110213	SHANJUN SUN	F03D3/06	Dual-drive fan

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CN202468165U U 20121003	CN20112560666U 20111229	GUANGWU WANG	F03D9/00; H02P9/06	Dual-drive wind power generation device
WO2012134459 A1 20121004	WO2011US30477 20110330	AMSC WINDTEC GMBH [AT]; JANDL ARMIN [AT]; SCHWARZ MICHAEL [AT]; WOLF ANTON [DE]	F03D9/00; H02K1/18	DUAL-GENERATOR ARRANGEMENT FOR A WIND POWER PLANT
CN202391656U U 20120822	CN20112533083U 20111219	DENGRONG ZHOU; JIAN ZHOU	F03D9/00; F03D11/00	Duct well for wind tower power station
WO2012134458 A1 20121004	WO2011US30440 20110330	AMSC WINDTEC GMBH [AT]; WEICHBOLD PETER [AT]; RACA DEJAN [AT]	H02P9/00; F03D7/00; H02P9/10	DYNAMIC BRAKING AND LOW VOLTAGE RIDE THROUGH
US2012201060 A1 20120809	US201213356593 20120123; US20080231663 20080904; US20080218297 20080714	OGRAM MARK ELLERY [US]	H02M7/42; F03D9/00; H01R39/02	DYNAMIC ELECTRICAL CONVERTER SYSTEM
CN102647874 A 20120822	CN20121140515 20120509	JIANGSU PHONODA ELECTRIC CO LTD	H05K5/02; F03D7/00	Dynamic positioning linkage device
CA2741101 A1 20121124	CA20112741101 20110524	MIVA ENGINEERING LTD [CA]	F03D11/02; F01D15/10; F03B13/12; F16H1/46	DYNAMIC RATIO SPEED INCREASER FOR WINDMILLS AND SIMILAR APPLICATIONS
CN202484301U U 20121010	CN20112357922U 20110922	BEIJING JINFENG KECHUANG WIND POWER EQUIPMENT CO LTD	F16J15/16; F03D11/00; F16J15/20; F16J15/28	Dynamic sealing device used for wind driven generator and wind driven generator
WO2012096616 A1 20120719	SE20110000015 20110110	EHRNBERG SOLUTIONS AB [SE]; EHRNBERG DANIEL [SE]	F03D3/00; F03D3/06; F03D7/06	DYNAMIC TURBINE SYSTEM
CN102748217 A 20121024	CN20121263015 20120727	GUODIAN UNITED POWER TECH CO [CN]	F03D7/00	Dynamically optimal blade pitch angle control method and device of wind generator set

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MX2012002823 A 20121001	KR20090085230 20090910; WO2010KR00869 20100211	RYU BYUNG-SUE [KR]	F03D3/02; F03D3/04; F03D11/00; F03D11/02	ECCENTRIC DUAL ROTOR ASSEMBLY FOR WIND POWER GENERATION.
CN102705170 A 20121003	CN20121216291 20120628	EAST CHINA INST TECHNOLOGY	F03D9/00; F03D3/06; F03D11/02	Eccentric multi-power wind driven generator
WO2012174864 A1 20121227	CN20112208230U 20110620	LIU HAIPING [CN]	F03D3/06	ECCENTRIC RING WIND POWER MECHANISM
CN102747843 A 20121024	CN20111100328 20110420	SHANGHAI GAOGE ENGINEERING DESIGN CONSULTING CO LTD	E04H1/02; C12M1/107; F03D9/00; F24D3/08; F24D12/02; F24F5/00; H02N6/00	Ecological house energy supply system and method
CN102536641 A 20120704	CN20121030273 20120213	YONGDI PAN	F03D3/00; F03D3/04; F03D3/06; F03D7/06	Efficient diversion type vertical axis fan
CN102797648 A 20121128	CN20111141522 20110527	TIESHENG CAO; XIANGSHENG ZHANG; ZHEN WANG	F03G3/00; F03D9/02	Efficient environment-friendly gravity energy storage method and device
CN102644556 A 20120822	CN20121140869 20120508	ANHUI ZHIJIEKECHUANG WIND & SOLAR POWER GENERATING EQUIPMENT CO LTD	F03D9/00; F03D3/06; F03D11/00; H02N6/00	Efficient low-resistance breeze and solar energy complemented generator
CN102797615 A 20121128	CN20121321703 20120904	HUI CHENG	F03B13/00; F03B3/00; F03D1/02; F03D9/00; H02K7/18	Efficient wind-power/water-power generator with stator and rotor in antidromic rotation
DE202012008475U U1 20121106	DE201220008475U 20120829	JACEK PAUL [DE]	F03D11/00	Einbau einer Elektroflõchenheizung in die Rotorblõtter und Nabe einer horizontalen Windkraftanlage zur vermeidung des Eisschlags
CN202431454U U 20120912	CN20112554488U 20111227	ZHENJIANG TIEKE RUBBER & PLASTIC PRODUCTS CO LTD	F03D11/00	Elastic support piece of wind power generator

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CN102792015 A 20121121	WO2011EP00107 20110113; EP20100000451 20100119	FRANZ MITSCH	F03D11/00; F16F1/40	Elastomeric spring having mechanically controllable stiffness
WO2012153197 A2 20121115	US201161484343P 20110510	CONDOR WIND ENERGY LTD [GB]; CARUSO SILVESTRO [GB]; JAKUBOWSKI MARTIN [GB]; CAIOLI LUCIANO [GB]	F03D1/06	ELASTOMERIC TEETERING HINGE
DK2263021T T3 20121119	EP20080006773 20080403; WO2009EP02320 20090331	FM EN GMBH & CO KG [DE]	F16F1/36; F03D11/04; F16F1/387	ELASTOMERKOMPONENTER DER KAN FORSP?NDES AF TRYKORGAN OG FREMGANGSMAADE TIL FREMSTILLING DERAF
WO2012174684 A1 20121227	CN20111171109 20110623	GUODIAN UNITED POWER TECH CO [CN] [CN]; XIAO SHANCAI [CN]; SHI WENJIANG [CN]; QIN MING [CN]	F03D9/00; F03D11/00; H02K51/00	ELECTRIC CONTINUOUSLY VARIABLE LARGE SYNCHRONOUS WIND POWER GENERATOR SET
CN202550643U U 20121121	CN20122140634U 20120405	UNIV NORTH CHINA ELEC POWER	H02J7/14; F03D9/00	Electric energy management device of perpendicular shaft wind power generation system
CN202348587U U 20120725	CN20112512742U 20111212	DALIAN VOCATIONAL & TECH COL	F03D9/02	Electric energy storing device
CN202381355U U 20120815	CN20112443172U 20111110	UNIV SHANGHAI DIANJI	F04D25/08; F03D9/02	Electric fan capable of generating electricity
TWM437895U U 20120921	TW20110215768U 20110824	LI CONG-JIE [TW]	F03D3/00; F24F7/00; F24H9/00	Electric generating windmill with indoor heat exhausting function
KR20120088070 A 20120808	KR20110009137 20110129	KIM YONG TAK [KR]	F03D9/00; H02G7/00; H02G13/00	ELECTRIC GENERATION OF SUSPEND BY THE ROPE
WO2012114264 A1 20120830	IT2011VI00013U 20110223	REEL SRL [IT]; BERTOTTO EZIO [IT]	F03D7/04; F03D11/00	ELECTRIC GENERATOR

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CN102793483 A 20121128	CN20121317389 20120831	WUXI TONGCHUN NEW ENERGY TECH	A47J37/06; F03D9/00	Electric heating BBQ device taking wind power generation system as power source
KR20120102633 A 20120918	JP20090238618 20091015	SUMITOMO ELECTRIC INDUSTRIES [JP]	F03D9/00; F03D1/06; F03D9/02; H02K7/18	ELECTRIC POWER GENERATION SYSTEM
KR20120120809 A 20121102	KR20110038587 20110425		F03D3/02; F03D11/02; F03D11/04	aero generator
KR20120120920 A 20121102	KR20120109835 20121004		F03B13/14; F03B17/00; F03D3/06	Multifunction high rotor
CN102743869 A 20121024	CN20121265681 20120730	WUXI TONGCHUN NEW ENERGY TECH	A63G31/02; F03D9/00; H02N6/00	Electric swing machine for children using wind and solar hybrid generating system as supplied power source
RO127974 A2 20121129	RO20110000412 20110502	PRUNES NICOLAE [RO]	F03D3/06	ELECTRIC WIND-GRAVITATIONAL INSTALLATION
WO2012123700 A2 20120920	GB20110004273 20110314	CLEAN ENERGY LTD [GB]; ROGERS ALAN [GB]; RUTT JOHN [GB]	F03D9/02	ELECTRICAL ENERGY GENERATING SYSTEM
US2012306211 A1 20121206	US201113312782 20111206; US20100852101 20100806; US20100305912P 20100218	OSCILLA POWER INC [US]	F03B13/00; H02K21/02	ELECTRICAL GENERATOR THAT UTILIZES ROTATIONAL TO LINEAR MOTION CONVERSION
CA2769128 A1 20120828	EP20110156219 20110228	SIEMENS AG [DE]	H02K3/04; F03D11/00	ELECTRICAL MACHINE, IN PARTICULAR AN ELECTRICAL GENERATOR
CN202560484U U 20121128	CN20122160707U 20120408	SICAN ZHANG	F03D11/02; F03D3/02	Electricity generating device capable of increasing vertical wind-power electric energy production
TW201231804 A 20120801	TW20110102089 20110120	UNIV NAT CHENG KUNG [TW]	F03D5/00; F02B63/04	Electricity generation system of land carrier
KR101171715B B1 20120807	KR20110134709 20111214	SON GUN HO [KR]; SON SE WOOK [KR]; SON SANG CHEOL [KR]	F03B13/12; F03D9/00; F03D11/02	Electricity Generation System use of Wave Height

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TW201234745 A 20120816	TW20110103890 20110201	CHANG SHIH-CHENG [TW]	H02K7/18; F03D1/00	Electricity generator system, energy harvester and lighting system using the same
US2012187682 A1 20120726	US201113333797 20111221; US20090357862 20090122; US20080011701P 20080122; US20080066650P 20080222; US20080199598P 20081118	CARMEIN DAVID [US]; WHITE DAWN [US]	F03D9/00	ELECTRO-HYDRODYNAMIC WIND ENERGY SYSTEM
CN202520479U U 20121107	CN20122212599U 20120429	INNER MONGOLIA HUADE NEW TECHNOLOGY CO	F03D7/00	Electromagnetic stepless braking system of small-sized wind power generator set
CN102644549 A 20120822	CN20121049193 20120229	UNIV NANTONG	F03D7/06	Electromechanical coordination inhibiting method and device for chattering of rotary spindle of vertical axis wind machine
CN202483794U U 20121010	CN20122070226U 20120229	UNIV NANTONG	F03D7/06	Electro-mechanical coordination restraining device for chattering of rotary spindle of vertical axis wind turbine
GB2491488 A 20121205	GB20110009307 20110603	ROMAX TECHNOLOGY LTD [GB]	F03D11/02; F16H3/72	Electromechanical driveline with power splitting device
US2012257972 A1 20121011	ES20110030559 20110408	CLAVERIA CANAL ANTONIO [AD]; RODRIGUEZ MONTES ANGEL [AD]; HARO CERVANTES DIEGO [AD]; COLL MARGUERITE [AD]	F03D11/00	Electrostatic charge de-ionizing lightning rod for protection of wind turbine generator blades and wind turbine generator with blades provide with electrostatic charge de-ionizing lightening rod

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DE202012007048U U1 20121115	DE201220007048U 20120720	LANGE OLIVER [DE]	F16M13/00; F03D9/00; H01L31/04	Elektrische Energiegewinnung an Windkraftanlagenturmoberflõchen, mittels Einsatz von direkt bzw. indirekt integrierten, photovoltaisch oder elektrochemisch wirkenden Materialschichten, auf Basis von Lichtreaktion (Photoneneinfall) auf der Turmaussenoberfl
DE202012007047U U1 20121115	DE201220007047U 20120720	LANGE OLIVER [DE]	F03D9/00	Elektrische Energier³ckgewinnung bzw. Energiegewinnung, mittels Vertikalwindkraftanlagen im Mittelbereich (Fahrbahnabgrenzungsbereich) an Autobahnen, durch Nutzung, der im Fahrtwind der Automobile vorhandenen, kinetischen Energie
DE102011003459 A1 20120802	DE201110003459 20110201	ALSTOM GRID GMBH [DE]	H02J3/38; F03D7/00; F03D11/00	Elektrische Schaltung für einen Windpark
DE202012009612U U1 20121218	DE20122009612U 20121009	WIEDEMANN ANDRE [DE]	F03D1/06; F03D1/04; F03D9/00	Elektrostatische Windenergieanlage mit Mini-Rotoren
CN202300846U U 20120704	CN20112375259U 20110928	JIAHAO NEW ENERGY INVEST CO LTD	F03D9/00; F03D3/06; F03D11/00; F16C32/04	Elevated magnetic suspension wind generation system
CN202334386U U 20120711	CN20112500581U 20111206	SHANXI SHENGHUA ENERGY TECHNOLOGY CO LTD	H02N6/00; F03D9/00; G05D3/12	Embedded automatic linkage tracking solar and wind power hybrid generating device
CN202484038U U 20121010	CN20122009009U 20120110	SHANGHAI SHENGUANG HIGH STRENGTH BOLTS CO LTD	F16B37/00; F03D11/00	Embedded screw sleeve for high-power wind power generation blade
CN102804592 A 20121128	WO2010EP02775 20100506; DE20091029884 20090623	BOSCH GMBH ROBERT [DE]	H02P25/16; F03D7/02; F03D11/00	Emergency adjusting device for blade adjusting systems of wind power plants

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CN102716559 A 20121010	CN20121179980 20120604	SICHUAN WITT DRAGON FIRE EQUIPMENT CO LTD	A62C3/16; F03D11/00	Emergency closing device for air inlet of cabin of wind-driven generator
CN102619687 A 20120801	CN20121113244 20120418	CNR WIND TURBINE CO LTD	F03D7/00	Emergency control method with failure of anemorumbometer of wind generating set
CN102801200 A 20121128	CN20121334395 20120912	NANJING COLLEGE CHEMICAL TECH	H02J7/00; F03B13/00; F03D9/00; F03G7/04	Emergency power supply for self power generation kitchen
CN102748213 A 20121024	CN20121240228 20120710	GUODIAN UNITED POWER TECH CO [CN]	F03D7/00	Emergency shutdown control system and method for wind generating set
NO20110563 A 20121015	NO20110000563 20110413	SEATOWER AS [NO]	E02D27/52; E02B17/00; E02D27/42; E04H12/08; E04H12/22; F03D1/00; F03D11/04	En fremgangsmate for vertikal innretting av et tarn
CN202510286U U 20121031	CN2012227387U 20120120	XUANMU LIU	F03D9/00	Encoder-free permanent magnet synchronous motor direct-driven wind power generating set
CN202417837U U 20120905	CN20122001945U 20120105	DONGFANG ELECTRIC NEW ENERGY EQUIPMENT HANGZHOU CO LTD	F03D11/00; F16J15/02	End sealing device of cabin cover
DE202012102872U U1 20120822	AT20110001252 20110901	HEHENBERGER GERALD [AT]	F03D11/04	Energiegewinnungsanlage
AT510848 A4 20120715	AT20110000331 20110310	HEHENBERGER GERALD DIPL ING [AT]	F03D11/02; H02K7/116; H02P9/48	ENERGIEGEWINNUNGSANLAGE
DE202011102374U U1 20121001	DE201120102374U 20110627	PROSOL INVEST DEUTSCHLAND GMBH [DE]	H02J3/00; F03D11/00; H02J3/28; H02J3/38	Energiespeicher- und/oder Versorgungsvorrichtung
EP2535561 A1 20121219	CN201019114067 20100208; WO2010CN00956 20100628	NAT WIND ENERGY CO LTD [CN]	F03D3/04; F03D1/04; F03D9/00	ENERGIZATION WING AND WIND WHEEL OF WINDMILL GENERATOR WITH VERTICAL AXIS HAVING ENERGIZATION WING

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CN102787997 A 20121121	HK20110111686 20111028	JINHUA DAI	F04B23/04; F03D9/00; F04B9/08	Energy collector
NO332201B B1 20120723	NO20110000018 20110107	SMARTMOTOR AS [NO]	F03D9/00; H02J3/28	ENERGY CONVERSION SYSTEM
CN102748222 A 20121024	CN20111095989 20110418	YONGGANG LIU	F03D9/00; F03D1/00; F03D1/06	Energy converter for wind blade
US2012261926 A1 20121018	US20090289161P 20091222; US20100313153P 20100312; US201013516319 20101222; US20100321705P 20100407; WO2010US61806 20101222	DESIGN PROTOM INC [CA]	F03D3/00; F03D9/00	ENERGY GENERATION SYSTEM AND RELATED METHODS
WO2012103553 A1 20120802	US201161437586P 20110128	OSCILLA POWER INC [US]; NAIR BALAKRISHNAN [US]; GILL ANDREW JOSEPH [US]; MURPHREE ZACHARY [US]	H01L41/06	ENERGY HARVESTING METHODS AND DEVICES, AND APPLICATIONS THEREOF
WO2012129809 A1 20121004	WO2011CN72345 20110331	HUNG JUI-TUNG [CN]	H02J7/14; F03D9/02; F03G5/00; F03G6/00; F03G7/00	ENERGY MANAGEMENT AND ENERGY PRODUCTION SYSTEM
US2012286517 A1 20121115	US201213557018 20120724; US201113193267 20110728; US20090388457 20090218; US20080066445P 20080219	GILBERT JEFFREY RYAN [US]	H02K7/18	ENERGY RECOVERY SYSTEM AND METHOD FOR EXHAUST ENERGY CAPTURE AND ELECTRICAL GENERATION

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CN202348585U U 20120725	CN20112419744U 20111029	YUNHE DENG	F03D9/02; F03B3/00; F03B13/00; F03D3/02; F03D11/00; H02K7/18	Energy storage and power generation system of vertical axis wind generator
CN102738905 A 20121017	TW20120105018 20120216	CHUNGHWA TELECOM	H02J15/00; F03D9/02; F24J2/00; H02N6/00	Energy storage and supply system integrating natural energy
WO2012119018 A1 20120907	US201161448791P 20110303	RES TRIANGLE INST INTERNAT [US]; GOODWIN SCOTT H [US]; BAHNER MARK [US]	F03D9/02	ENERGY STORAGE RESERVOIR
CN102734077 A 20121017	CN20111086071 20110402	ZEXING GAO	F03D11/00; F03D9/02; F16H33/00; F16H48/08; F16H48/20	Energy storage system and aerogenerator comprising the energy storage system
CN202468171U U 20121003	CN20122025569U 20120119	DENGRONG ZHOU; JIAN ZHOU	F03D9/02	Energy storage type generation device for wind tower power station
WO2012147157 A1 20121101	WO2011JP60137 20110426	HITACHI LTD [JP]; ISHIKAWA TAKAO [JP]; NOUJIMA MASAFUMI [JP]; SHIMADA ATSUSHI [JP]	C25B1/04; C01B3/00; F03D9/02; H01M8/06; H01M8/10; H01M8/12	ENERGY STORAGE/SUPPLY APPARATUS
CN102797638 A 20121128	CN20111138392 20110523	JINGCHOU MAO	F03D9/02	Energy storing device of wind driven generator
CN102691633 A 20120926	CN20111068238 20110322	CHANGSHENG HE	F03G5/00; C01B13/02; F03B13/00; F03D9/00	Energy-consumption-free magnetic force oxygen enriching device
CN102767306 A 20121107	CN20111116110 20110506	XINGUANG LIU	E04H14/00; E04B1/74; E04B1/76; E04B7/02; E04D13/16; E04D13/18; E06B5/16; F03B13/00; F03D9/00; F24J2/00	Energy-saving and water-saving building
CN202300618U U 20120704	CN20112389387U 20111013	GEELY AUTOMOBILE RES INST ZJ; ZHEJIANG GEELY HOLODING GROUP	F01P7/12; F02G5/00; F03D9/02	Energy-saving cooling system of automobile engine

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CN202454086U U 20120926	CN20122057289U 20120214	XIAOZHI XIE	G08G1/095; F03D9/00	Energy-saving traffic signal board
CN202348584U U 20120725	CN20112419743U 20111029	YUNHE DENG	F03D9/02; F03B3/00; F03B13/00; F03D3/00; F03D3/02; F03D11/00; H02K7/18	Energy-storage power-generation system for vertical axis wind turbine
CN202370757U U 20120808	CN20112555360U 20111228	XIAOMING SHI	F03D9/02; F03D11/04	Energy-storage wind power generating set
RU2467203 C1 20121120	RU20110126436 20110627	KOZHANOV ANATOLIJ TIMOFEEVICH [RU]	F03D3/04; F03D9/00; F03G7/06	ENGINE
CN202493384U U 20121017	CN20112546717U 20111223	GUANGDONG DONGXING FENGYING WIND POWER EQUIPMENT CO LTD	F03D11/00; F03D9/00	Engine cabin ventilating scoop of wind driven generator and wind driven generator
CN202441550U U 20120919	CN20122055261U 20120220	ZHEJIANG HUAYI WIND ENERGY DEV CO LTD	F03D11/00; F03D9/00	Engine room cooling device, wind driven generator using engine room cooling device and wind power generation system using engine room cooling device
CN102678478 A 20120919	CN20121146255 20120514	GUODIAN UNITED POWER TECHNOLOGY LIANYUNGANG CO LTD	F03D11/00	Engine room cover of ultra-large type wind driven generator
CN202520486U U 20121107	CN2012292080U 20120313	JINAN RAILWAY VEHICLES EQUIP	F03D11/00	Engine room cover used for offshore wind driven generator
CN202300869U U 20120704	CN20112381280U 20111009	SINOVEL WIND GROUP CO LTD [CN]	F03D11/00	Engine room housing of wind generating set
TWM438539U U 20121001	TW20120204620U 20120314	UNIV CHAOYANG TECHNOLOGY [TW]	F03D9/00; F03G6/00; F03G7/04	Environmental air compressing energy storing system of natural energy
CN102733474 A 20121017	CN20121236909 20120710	UNIV ZHEJIANG	E03F1/00; E03F3/02; E03F5/10; E03F5/14; E04D13/18; F03B13/00; F03D9/02; H02J7/00; H02J9/00	Environmentally-friendly method for additionally supplying water and power for building and system

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KR20120083600 A 20120726	KR20110004796 20110118	WANG TZENG CHYUAN [TW]	A01K1/00; F03D9/00; F24D3/00; F24J2/02	ENVIRONMENT-FRIENDLY STABLE
CN202468175U U 20121003	CN20112545677U 20111223	BEIJING KHAN WIND TECHNOLOGY CO LTD	F03D11/00; B29C70/36	Environment-friendly wind-driven generator cabin cover
BRPI0712840 A2 20121218	DK20060000893 20060630; WO2007DK00313 20070627	VESTAS WIND SYS AS [DK]	B66C1/66; F03D1/00; F03D11/04; F16B5/02	equipamento de iþamento para manejar um componente de turbina e¾lica em conexÒo com meios de iþamento, e mÚtodo para manejar um componete de turbina e¾lica
EP2511520 A1 20121017	ES20090002312 20091211; WO2010ES00505 20101210	GRUPO DE INGENIERIA OCEANICA [ES]	F03D1/00; F03D1/06; F03D11/04	EQUIPMENT AND METHOD FOR INSTALLING THE THIRD BLADE OF A WIND TURBINE
CN202560480U U 20121128	CN20122139935U 20120406	RENERGY ELECTRIC TIANJIN LTD	F03D11/00	Equipment box in wheel hub of wind power generator
CN102536630 A 20120704	US20100952552 20101123	GEN ELECTRIC [US]	F03D1/06; B32B18/00; B32B33/00	Erosion protection coating for rotor blade of wind turbine
DE102011054711 A1 20120906	US20100911202 20101025	GEN ELECTRIC [US]	F03D1/06	Erweiterungsvorrichtung für einen Rotorflügel einer Windkraftanlage
CN202300044U U 20120704	CN20112384806U 20111011	SINOVEL WIND GROUP CO LTD [CN]	E06B5/10; E05B1/00; E05C19/00; E05F3/00; F03D11/00	Escape door for wind-driven generator set
WO2012149347 A2 20121101	US201161479897P 20110428; US201161570458P 20111214	E NET LLC [US]; MAHAWILI PH D IMAD [US]	F03D9/00; F03D11/00; F23J11/00; F24F7/00	EXHAUST ENERGY RECOVERY SYSTEM
EG26026 A 20121210	WO2009SG00238 20090630; SG20080005072 20080704	3RD BRAND PTE LTD [SG]	G06F15/16; G06F15/173	Extended messaging platform
CN102619692 A 20120801	CN20121081433 20120326	UNIV HARBIN ENG	F03D9/00; F03D3/06; F03D7/06	Extensible vertical axis wind power generator

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CN102788094 A 20121121	CN20121258228 20120725	DALIAN METALLURG BEARING CO LTD	F16C41/00; F03D11/00	External gear yaw bearing capable of preventing lightening strikes
CN202493386U U 20121017	CN20122058905U 20120222	FUXIN JINYIN NEW EENRGY TECHNOLOGY CO LTD	F03D11/00	External prestressing steel and concrete wind power tower
CN202545136U U 20121121	CN20122175745U 20120424	FUXIN JINYIN NEW ENERGY TECHNOLOGY CO LTD	F03D11/00; F03D11/04	External-prestressed bonded rebar connecting type concrete wind power tower
CN102767472 A 20121107	CN20121249691 20120718	UNIV NORTH CHINA ELEC POWER	F03D7/00	Extracting method of power curve of wind generating set
CN102678463 A 20120919	CN20121102620 20120401	SHUCHUN SONG	F03D9/00; F03D3/04; F03D3/06; F03D7/06	F-11 strong-energy-concentrating retracted paddles parallelly-connected intelligent wind driven generator
WO2012130339 A2 20121004	EP20110159782 20110325	SIEMENS AG [DE]; SCHIBSBYE KARSTEN [DK]	F03D1/06	FACILITY AND METHOD FOR MANUFACTURING A ROTOR BLADE OF A WIND TURBINE AND METHOD FOR SETTING UP THE FACILITY
CN102678458 A 20120919	CN20111062766 20110316	SHANGHAI TIANDI RENHE INVEST CO LTD	F03D9/00; F16H39/02; H02K7/18	Fan
TWM439713U U 20121021	TW20120207446U 20120420	EVER WIN & VICTORY IND CO LTD [TW]	F03D11/00	fan blade device of wind turbine
CN202300875U U 20120704	CN20112444487U 20111111	JIANWU CHEN	F03D11/00	Fan blade for fishing
CN102767470 A 20121107	CN20121228669 20120629	FANG HUANG	F03D3/06	Fan blade of wind-driven generator
CN202381267U U 20120815	CN20112558408U 20111228	FUJIAN MYEIR NEW ENERGY TECHNOLOGY CO LTD	F03D11/00	Fan blade protection device of small-size wind driven generator
CN102588216 A 20120718	CN20121023254 20120202	JIANGSU JVYUAN WIND POWER TECHNOLOGY CO LTD	F03D9/00; F03D3/06; F03D7/06	Fan blade set device for wind generator system
CN202545127U U 20121121	CN20122128771U 20120330	YANGZHOU SHENZHOU WIND DRIVEN GENERATOR CO LTD	F03D11/00	Fan blade structure of wind driven power generator

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CN202417822U U 20120905	CN20122059561U 20120221	SHENHUA GROUP CORP LTD; GUOHUA ENERGY INVEST CO LTD; GUOHUA SHANWEI WIND POWER CO LTD	F03D7/00; F16D65/14	Fan braking equipment
CN102635500 A 20120815	CN20121124517 20120425	GUANGDONG MINGYANG LONGYUAN POWER ELECTRONICS CO LTD	F03D7/00; F03D11/00	Fan electric control system and fan converter integrated control topology
CN102748241 A 20121024	CN20121204246 20120620	WUXI CHIRUN SHEET METAL MACHINERY MFG CO LTD	F03D11/00	Fan fixing frame of wind power generation system
CN202468172U U 20121003	CN20112520850U 20111214	BEIJING JINFENG KECHUANG WIND POWER EQUIPMENT CO LTD; BEIJING TIANYUAN SCIENCE & TECHNOLOGY CREATION WINDPOWER TECHNOLOGY CO LTD	F03D11/00; F03D9/00	Fan impellor locking device and wind-driven power generator set
CN202301605U U 20120704	CN20112440935U 20111109	BAODING TIANWEI WIND POWER TECHNOLOGY CO LTD	F16D65/12; F03D7/00	Fan parking brake disc structure
CN202441549U U 20120919	CN20122011679U 20120112	NANJING WIND POWER TECHNOLOGY CO LTD	F03D11/00	Fan pitch debugging and maintaining device
CN202370767U U 20120808	CN20112549707U 20111226	TIANJIN RUITUO ELECTRONICS TECHNOLOGY DEV CO LTD	F03D11/04	Fan support frame convenient to fold
CN102734088 A 20121017	CN20121244864 20120713	GUODIAN UNITED POWER TECH CO [CN]	F03D11/00	Fan tower
CN102787984 A 20121121	CN20121278264 20120807	CHINAPOWER UNITED POWER TECHNOLOGY LIANYUNGANG CO LTD	F03D11/00	Fan tower tube cooling device

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WO2012155881 A2 20121122	DE201120100897U 20110517	WINDNOVATION ENGINEERING SOLUTIONS GMBH [DE]; STOER ROLAND [DE]	F03D1/06	FASTENING ROTOR BLADES TO THE HUB OF WIND TURBINES
CN102619684 A 20120801	CN20111034115 20110131	SINOVEL WIND GROUP CO LTD [CN]	F03D7/00; G01M15/00	Fault diagnosis method and system
KR20120111136 A 20121010	KR20110029463 20110331	KOREA ELECTRONICS TECHNOLOGY [KR]; UNISON CO LTD [KR]	F03D7/00; F03D11/00; G05B23/00; G06F9/44	FAULT TOLERANCE SERVICE MIDDLEWARE FOR WIND POWER GENERATION CONTROL SYSTEM
CN102570496 A 20120711	EP20100194143 20101208	SIEMENS AG [DE]	H02J3/38; F03D9/00	Fault-ride-through method, converter and power generating unit for a wind turbine
WO2012130239 A2 20121004	DK20110070145 20110330	VESTAS WIND SYS AS [DK]; DANIELSEN NIELS ERIK [DK]	F03D11/00	FAULT-TOLERANT FIRE PROTECTION SYSTEM
CN102536647 A 20120704	CN20111377849 20111124	ZHEJIANG HUAYING WIND POWER GENERATOR CO LTD	F03D7/00	Feathering shutdown mechanism of small and medium sized wind driven generators
CN202360299U U 20120801	CN20112471895U 20111124	ZHEJIANG HUAYING WIND POWER GENERATOR CO LTD	F03D7/00	Feathering shut-down mechanism of small and medium-sized wind driven generator
CN102705158 A 20121003	CN20121164955 20120525	UNIV JIANGNAN	F03D7/00	Feedback control method of wind energy converting system based on fuzzy performance estimator
KR20120097910 A 20120905	KR20110017469 20110226	OH JEONG KYU [KR]	F03D3/06; F03D11/00	FILM TYPE BLADE VERTICAL WIND TURBINE
CN202402925U U 20120829	CN20112525694U 20111215	JIUJIANG 707 INST OF PREC MECHATRONICS SCI & TECH CO LTD	F16N39/06; F03D11/00; F16H57/04	Filter element for lubrication system of wind power gearbox
CN102588210 A 20120718	CN20111432282 20111221	ZHONGNENG POWER TECH DEV CO LTD	F03D7/00	Filtering method for preprocessing fitting data of power curve
EG25992 A 20121127	9	BASSEM GAMIL FARAG ALLAH [EG]	A62C2/00	Fire extinguisher

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EP2526292 A1 20121128	EP20100159631 20100412; WO2010EP63590 20100916; EP20100755143 20100916	SIEMENS AG [DE]	F03D11/00	FIXATION OF A HEATING MAT TO A BLADE OF A WIND TURBINE
CN202348588U U 20120725	CN20112454356U 20111116	NANJING OULU ELECTRIC TRANSMISSION CO LTD	F03D11/00	Fixing mode of wind-driven generator
CN202431459U U 20120912	CN20112575390U 20111231	SINOVEL WIND GROUP CO LTD [CN]	F03D11/00	Fixing piece for connecting structure of fan blade root and fan blade
WO2012113491 A1 20120830	DE20111012391 20110225	HYDAC ACCESSORIES GMBH [DE]; CASPARI JOCHEN [DE]; YAGCI BURHAN [DE]; MARYNIOK PETER [DE]	F03D11/00; B66D1/36; F16L3/10; F16L3/22; H02G3/30	FIXING SYSTEM FOR CABLES, IN PARTICULAR IN WIND TURBINES
CN202442067U U 20120919	CN20122026352U 20120119	SINOVEL WIND GROUP CO LTD [CN]	F16L59/10; F03D11/00	Flameproof enclosure
CN202391660U U 20120822	CN20112537663U 20111220	BAODING HUAYI TURBINE BLADE RES & DEV CO LTD	F03D11/00; B32B33/00	Flame-retardant wind power generation blade
EP2497878 A2 20120912	US201113045623 20110311	GEN ELECTRIC [US]	E04H12/08; F03D11/04	Flange and wind energy system
CN202300867U U 20120704	CN20112342794U 20110914	NANTONG DAWNTINE NEW ENERGY EQUIPMENT CO LTD	F03D11/00	Flange assembly positioning device for roots of embedded bolt fan blades
CN102678694 A 20120919	CN20121185410 20120606	GUODIAN UNITED POWER TECH CO [CN]	F16B7/02; F03D11/00; F16B7/18	Flange-free connection mode and implementation method for barrel-type tower frame of large size wind turbine

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EP2504570 A2 20121003	GB20090020681 20091125; US20090264463P 20091125; WO2010EP68042 20101123	VESTAS WIND SYS AS [DK]	F03D1/06; F03D7/02	FLAP CONTROL FOR WIND TURBINE BLADES
EP2503142 A1 20120926	EP20110158990 20110321	SIEMENS AG [DE]	F03D1/06	Flap for a wind turbine blade
CN202348554U U 20120725	CN20112541830U 20111222	ZHU FENGMING; CHAO YE; DONGWEI DUAN	F03D1/06	Flexible blade of wind power generator
CN202545143U U 20121121	CN20122185067U 20120427	SECOND ENGINEERING COMPANY OF CCCC FOURTH HARBOR ENGINEERING CO LTD	F03D11/04	Flexible socket and alignment device for mounting sea fan
KR20120071255 A 20120702	KR20100132923 20101222	SAMSUNG HEAVY IND [KR]	B63C1/02; B63B9/00; B63B27/12; F03D11/00	FLOATING DOCK AND CONSTRUCTING METOHD FOR WIND POWER GENERATOR USING THE SAME
CN102656363 A 20120905	WO2010SE51346 20101207; SE20090001531 20091207	HEXICON AB	F03D11/04	Floating energy producing plant
EP2499364 A2 20120919	DK20090001213 20091113; WO2010EP66806 20101104	VESTAS WIND SYS AS [DK]	F03D11/04	FLOATING OFF-SHORE WIND TURBINE
CN102562445 A 20120711	CN20121043581 20120224	MINGHUI QIN	F03D5/02; F03D11/00	Floating shaftless annular type vertical blade wind energy machine
CN202468158U U 20121003	CN20122062569U 20120224	MINGHUI QIN	F03D5/04	Floating shaftless annular vertical blade wind turbine
EP2479103 A1 20120725	FR20110050579 20110125	DCNS [FR]	B63B21/50; B63B35/44; F03D1/00	Floating support for a structure such as a wind turbine

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EP2479101 A1 20120725	FR20110050580 20110125	DCNS [FR]	B63B9/06; B63B35/44; F03D11/04	Floating support for an offshore structure such as a wind turbine
WO2012131116 A1 20121004	WO2011ES70225 20110401	SARRASIN GOMEZ DAVID [ES]	F03D11/04; B63B35/44	FLOATING SUPPORT FOR INSTALLING A WIND TURBINE IN BODIES OF SEA WATER, LAKES AND RESERVOIRS, AND WIND TURBINE TOWER INCLUDING THE FLOATING SUPPORT
KR20120121485 A 20121106	KR20110039327 20110427		F03D11/00; F03D11/02	simulation equipment for wind power generator
CN102705175 A 20121003	CN20121141331 20120509	ZHANXIANG MARINE DALIAN CO LTD	F03D11/00; B63B35/44; F03D9/00	Floating type wind power tower
CN202300850U U 20120704	CN20112383661U 20111011	JINAN QIQUAN THERMOELECTRICITY CO LTD	F03D9/00; F03B3/14; F03B13/00	Floating type wind-and-water complementation generating system on Yellow River water
KR20120103641 A 20120919	US20090287157P 20091216; US20100314146P 20100315	CLEAR PATH ENERGY LLC [US]	E02B17/04; B63B22/00; F03B13/12; F03D9/00	FLOATING UNDERWATER SUPPORT STRUCTURE
US2012207600 A1 20120816	WO2010US52998 20101018; US201013503634 20101018; US20090253562P 20091021	TECHNIP FRANCE [FR]	F03D3/00; B23P6/00; F03D11/04	FLOATING VERTICAL AXIS WIND TURBINE MODULE SYSTEM AND METHOD
US2012267897 A1 20121025	US201213451249 20120419; US201161517457P 20110420	WILLIAMS HERBERT L [US]	F03D9/02	Floating Wind Farm
WO2012159379 A1 20121129	US201113111954 20110520	WONG CARLOS [CN]; WONG LIVIA [CN]; CHEN LIQIANG [CN]; NG YUE CHU [CN]	F03D11/04; F03D9/02	FLOATING WIND FARM WITH ENERGY STORAGE FACILITY

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JP2012149531 A 20120809	JP20110006801 20110117	FUJI HEAVY IND LTD [JP]	F03D11/04; F03D1/06; F03D9/00	FLOATING WIND POWER GENERATOR
DE102011016824 A1 20121018	DE20111016824 20110412	UFERMANN RUEDIGER [DE]	F03D11/04	Floating wind power plant for use in offshore, has mast provided with force-fit or form-fit connected ball and floatable ring torus that is provided with identical webs
NO332528B B1 20121008	NO20110001329 20110929	WINDEL AS [NO]	F03D11/04; E02B17/04; E02B17/08; E04H12/34; F03D11/00	FLOATING WIND TURBINE
EP2496836 A2 20120912	US20090613305 20091105; WO2010US53349 20101020	FLORIDA TURBINE TECH INC [US]	F03D11/04	FLOATING WIND TURBINE
CN202295230U U 20120704	CN20112351939U 20110920	HYDROCHINA HUADONG ENGINEERING CORP	B63B35/00; F03D11/00	Floating-type offshore wind power foundation
CN202295236U U 20120704	CN20112361587U 20110926	HYDROCHINA HUADONG ENGINEERING CORP	B63B35/44; F03D11/00	Floating-type offshore wind power platform
CN202391658U U 20120822	CN20112552399U 20111226	INST ENG THERMOPHYSICS CAS	F03D9/00; B63B35/00	Floating-type wind farm
US2012301296 A1 20121129	US201113576849 20110216; US20100304842P 20100216; WO2011IL00165 20110216	TECHNION RES & DEV FOUNDATION [IL]	F03D7/06; F03D3/00; F03D11/00	FLOW CONTROL ON A VERTICAL AXIS WIND TURBINE (VAWT)
RU2467200 C1 20121120	RU20110116882 20110427	SERDJUKOV ALEKSEJ ALEKSEEVICH [RU]	F03B17/06; F03D3/06	FLOW ENERGY CONVERTER
CN202531352U U 20121114	CN2012281603U 20120306	UNIV CHINA AGRICULTURAL	F03D3/00; F03D3/04	Flow guiding type vertical axis wind turbine

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TW201235556 A 20120901	TW20110105119 20110216	WU CHUNG-PIN [TW]; LIN SIAO JYUAN [TW]	F03B15/02; F03D3/04	Fluid based generator
CN102644550 A 20120822	CN20111040850 20110218	KEJUN GAO	F03D9/00; F03B3/00; F03B13/00; F03D3/00	Fluid combined sliding and rotating energy collecting device
WO2012159152 A1 20121129	AU20110901987 20110520	LINEAR TECHNOLOGIES PTY LTD [AU]; SARICH RALPH TONY [AU]	F03B9/00; F03D3/00; F03D5/02; F03D11/00	FLUID ENERGY CONVERSION APPARATUS
TW201235558 A 20120901	TW20110105740 20110222	LIN YUH-BIN [TW]	F03D5/00	Fluid energy converter
WO2012159226 A1 20121129	CN20111135504 20110525; CN20112168163U 20110525	JIANG SU JUYUAN TECHNOLOGY CO LTD [CN]; SHI JIANYONG [CN]	F03D1/04; F03B3/06; F03B3/18; F03B13/26; F03B15/06; F03D1/06; F03D7/04; F03D9/00; F03D11/00	FLUID ENERGY INCREASING AND CONVERTING DEVICE
GB2488853 A 20120912	GB20110003874 20110308	BURLEIGH CHRISTOPHER FREDRICK [GB]	F03D5/06; F03B17/06; F03D3/06	Fluid flow harnessing arrangement with thrust and return positions
WO2012173139 A1 20121220	JP20110133946 20110616	UNIVANCE CORP [JP]; KATO TADAHIKO [JP]	F03D11/02; F03B11/00	FLUID FORCE POWER GENERATION DEVICE
CN102691616 A 20120926	CN20121145677 20120511	BAOSHU LIAO	F03D1/06; F03B3/14	Fluid power machine
EP2529107 A1 20121205	US20100749951 20100330; US20100299206P 20100128; US20100793931 20100604; US20100749341 20100329; US20100828698 20100701; WO2011US22962 20110128	FLODESIGN WIND TURBINE CORP [US]	F03D1/04	FLUID TURBINE

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CN102782312 A 20121114	WO2011US24509 20110211; US20100303339P 20100211; US20100749341 20100329; US20100332722P 20100507; US20100914509 20101028; US20100415610P 20101119; US20100983082 20101231	FLODESIGN WIND TURBINE CORP [US]	F03D1/04	Fluid turbine
US2012301297 A1 20121129	US201113134068 20110528	LUDWICK MARION [US]	F03D3/06	Fluid turbine device for power generation
EP2496835 A1 20120912	US20090614232 20091106; WO2010US02921 20101108	STEPHENS THOMAS GLENN [US]; BRANTLEY BRANDON D JR [US]; CORMEY JASON DANIEL [US]; VANCE ROBERT CLIFTON [US]; SKARZENSKI PETER CHRIS [US]	F03D3/06	FLUID TURBINE OPTIMIZED FOR POWER GENERATION
WO2012135638 A1 20121004	US201161469133P 20110330; US201161493833P 20110606	FLODESIGN WIND TURBINE CORP [US]; PRESZ WALTER M JR [US]; WERLE MICHAEL J [US]; HJORT SOREN [DK]; RUBAK RUNE [DK]; LOVMAND BO [DK]; DALSGAARD SOREN [DK]	F03D1/04; F03D7/02	FLUID TURBINE WITH VARIABLE PITCH SHROUD SEGMENTS

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MX2012009317 A 20120912	US20100303339P 20100211; US20100749351 20100329; US20100332722P 20100507; US20100914509 20101028; US20100415610P 20101119; US20100983082 20101231; WO2011US24509 20110211	FLODESIGN WIND TURBINE CORP [US]	F03D1/04	FLUID TURBINE.
TW201233895 A 20120816	US20100415626P 20101119	FLODESIGN WIND TURBINE CORP [US]	F03B1/00; F03D11/02	Fluid turbines
WO2012120485 A2 20120913	IT2011MI00376 20110310	WILIC S AR L [LU]; CASAZZA MATTEO [IT]; FOLIE GEORG [IT]; GELMINI EMMANUELE [IT]	H02K1/27; F03D9/00; F03D11/00; H02K1/32; H02K5/20; H02K7/18	FLUID-COOLED WIND TURBINE
WO2012094336 A2 20120712	US201161429307P 20110103	ROTER SAMUEL [US]; PEPPER LAURENCE A [US]	F03B17/06; F03B11/00; F03D5/00; F03D11/00	FLUIDIC FLOW CAPTURE AND ACCELERATION APPARATUS FOR HYPER-CONVERSION
NZ593565 A 20121130	US20060448640 20060606; NZ20070573203 20070606	OCEANA ENERGY COMPANY	F03D5/00; F03B9/00; F03B13/18; F03D5/04; H02K7/18	Fluid-powered electricity generator with radially outward directed blade intersecting plane of loop element around which the blade moves
US2012298793 A1 20121129	US201213479011 20120523; US201161488894P 20110523; US201161488902P 20110523	SKY WINDPOWER CORP [US]	F03D7/06; B64C27/08; F03D3/02	FLYING ELECTRIC GENERATORS WITH CLEAN AIR ROTORS

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CN102787980 A 20121121	CN20121275057 20120806	QINGDAO BOFENG WIND POWER GENERATOR CO LTD	F03D9/00; F03D3/02; F03D3/06; F03D7/06; F03D11/00	Flying saucer type antipole double speed direct-driven wind driven generator
US2012248782 A1 20121004	US201213493487 20120611	PICKETTE WAYNE DOUGLAS [US]; EPELBAURN-PICKETTE ANNA VICTOR [US]; GOMEZ WILLIAM [US]	F03D9/00; F03B13/10; H02K1/27	Flying-magnet-dynamo applied in electrical energy generation from Wind, Marine or Mechanical energy transformation
EP2534374 A1 20121219	DK20100070052 20100212; WO2011DK50036 20110210	THOMAS HOLDING AARHUS AS [DK]	F03D1/06; B29C44/00	FOAM MEMBERS AND A SPAR ARE ASSEMBLED THEN COATED AND FINISHED TO FORM A BLADE FOR A WIND TURBINE
EP2524135 A1 20121121	WO2009EP07721 20091028	POWERWIND GMBH [DE]	F03D11/00	FOLDABLE COOLER
CN102562440 A 20120711	CN20101614236 20101221	WENXUE FENG	F03D3/00; F03D3/06	Foldable portable vertical-shaft wind turbine
KR101213232B B1 20121218	KR20120046467 20120502	PUSAN NAT UNIV IND COOP FOUND [KR]	F03D11/00; B63B35/00; E02D27/52; F03D11/04	FOLOATING-TYPE WIND POWER GENERATOR WITH BLOCK-TYPE SUBSTRUCTURE FOR DEEP SEA
CN102661243 A 20120912	CN20121140540 20120508	CHINA ELECTRIC POWER RES INST	F03D7/00	Forecast correction pitch variation control method for doubly-fed induction wind power generator set
EP2534314 A1 20121219	EP20100163757 20100525; WO2010EP63905 20100921; EP20100760295 20100921	SIEMENS AG [DE]	E02D27/42; E02D27/50; E02D27/52; F03D1/00	FOUNDATION STRUCTURE FOR OFFSHORE CONSTRUCTIONS
CN102734085 A 20121017	CN20121221450 20120630	GUODIAN UNITED POWER TECHNOLOGY LIANYUNGANG CO LTD	F03D11/00	Framework of large wind generating set
CN202465343U U 20121003	CN20122008279U 20120110	SECOND INST OF OCEANOGRAPHY SOA	C02F1/44; F03D9/00	Frequency-conversion controlled wind energy sea water desalting device

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EP2508292 A1 20121010	US201113079854 20110405	GEN ELECTRIC [US]	B23K20/12	Friction stir welding process for large structures
CN102536693 A 20120704	CN20121021752 20120201	MINGHUA ZHONG	F03G4/00; F03D9/00; F03D11/00; F03G6/06	Fuel-free comprehensive generating equipment
CN202326728U U 20120711	CN20112304709U 20110819	JIANYI TANG	F16C32/04; F03D9/00; H02N15/00	Full magnetic suspension wind driven generator and motor adopting full magnetic suspension bearings
CN102787974 A 20121121	CN20121241523 20120712	UNIV SHANGHAI JIAOTONG	F03D7/00; H02P6/06; H02P27/06	Fully digital servo driver for AC permanent magnet synchronous motor for wind power generation pitch
CN102777332 A 20121114	CN20121282852 20120810	WUXI C SOLAR NEW ENERGY TECHNOLOGY LTD	F03D11/00	Functional main body structure for narrow pipe wind-condensation power generation
DE102011102249 A1 20121129	DE201110102249 20110523	THAELE HANNS [DE]	F03D1/04; F03D3/04	Funnel-shaped wind power plant for use in e.g. windy area for converting wind energy into electrical energy, has funnel opening, outer enclosure and wind turbines, where plant is exposed to wind flow and compatibly fitted in landscape
CN102606412 A 20120725	CN20111021281 20110119	TIANJIN SANXIN SUNSHINE COMPANY	F03D11/00	Gasket for regulating angle of blade of wind power generator
CN102536686 A 20120704	CN20121006454 20120110	SANY ELECTRIC CO LTD	F03D11/02; F03D9/00	Gear box and wind power generator comprising same
CN202301858U U 20120704	CN20112384804U 20111011	SINOVEL WIND GROUP CO LTD [CN]	F16H57/02; F03D11/00	Gear box body unloading groove of wind generating set
CN102792018 A 20121121	WO2010JP52101 20100212	MITSUBISHI HEAVY IND LTD [JP]	F03D11/02; F16H1/28; F16H57/04	Gear box for wind turbine generator and wind turbine generator
CN102678900 A 20120919	GB20110004455 20110316; GB20110005650 20110404; GB20110007316 20110503	ROMAX TECHNOLOGY LTD [GB]	F16H57/08; F03D11/02; F16H57/021; F16H57/029; F16H57/031	Gear box, seal, and cover arrangements

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CN202510295U U 20121031	CN2012223907U 20120119	DENGRONG ZHOU; JIAN ZHOU	F03D11/02; F16H1/22	Gear engagement speed change system for turbine turbofan of wind power tower
DE102011101140 A1 20121115	DE201110101140 20110511	BOSCH GMBH ROBERT [DE]	F16H57/00; F03D11/04	Gearbox for wind turbine installed in offshore wind farm, has transmission component having several gear teeth with different radioactivity marks
WO2012139674 A1 20121018	DE20112001559U 20110115; DE20112001560U 20110115	GINZEL LOTHAR [DE]; RUITER MARC [NL]	F03D11/02; F16H1/32	GEARING MECHANISM
ES1077965U U 20121102	ES20120000594U 20120612	RODRIGUEZ RAMIREZ MARCO ANTONIO [ES]	F03D11/00	Generador elÚctrico alimentado por fuerzas independientes
UY33812 A 20121031	AR2011P103701 20111005	IND METALURGICAS PESCARMONA S A I C Y F [AR]	F03D1/02; H02K1/14	Generador Eólico Sincrónico
MC200149 A 20120926	MC20110002580 20110902	FLORENT SAEZ [MC]	F01B23/10	Generateur bionique hybride universel
CN102748257 A 20121024	CN20121237607 20120711	ZHONGWU GOU	F03G7/00; F03B13/00; F03B17/02; F03D9/00; F03G6/06	Generating set utilizing lift and buoyancy of fluid
CN202560467U U 20121128	CN20122155864U 20120413	SHENGJIN WANG	F03D9/00; F03D1/06; F03D11/02	Generation device of lift tower
KR20120115910 A 20121019	KR20110033499 20110411	DONG KUK ELECTRIC MACHINERY CO LTD [KR]	H01L31/058; F03D9/00	GENERATION SYSTEM USING SOLAR MODULES AND WIND POWER GENERATOR, THE MANUFACTURING METHODS
CN102678461 A 20120919	CN20111069161 20110310	WENQING GUO	F03D9/00; F03D3/02; F03D3/06	Generator
CN102577044 A 20120711	WO2010EP65607 20101018; DE200910045902 20091021	SIEMENS AG [DE]	H02K7/18; F03D9/00; H02K1/20; H02K9/04	Generator

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CN102678320 A 20120919	CN20111069074 20110310	SHENZHEN ANTUOSHAN SPECIAL ELECTROMECHANICAL CO LTD	F02B63/04; F01D15/10; F03B13/00; F03D9/00; H02K5/00; H02K5/04; H02K5/16	Generator and auxiliary supporting structure thereof
KR20120122325 A 20121107	KR20110040407 20110428		F03G3/06; F03D7/06; F03D11/00; F03D11/02	An aerogenerator
EP2514076 A1 20121024	DE200910059671 20091219; WO2010EP07496 20101209	BOSCH GMBH ROBERT [DE]	H02K7/18; F16H37/04	GENERATOR ASSEMBLY FOR A WIND POWER PLANT
CN202441553U U 20120919	CN20112498924U 20111205	DENGRONG ZHOU; JIAN ZHOU	F03D11/02	Generator gearbox for wind tower power station
KR20120119233 A 20121031	KR20110037021 20110421	PARK CHAN HEE [KR]	H02K57/00; F03D9/00; H02K21/14	GENERATOR OF HYBRID EXCITE METHOD USING PERMANENT AND ELECTROMAGNET
KR20120123799 A 20121112	KR20110041354 20110502		F03D3/06; F03D7/06; F03D11/00	Wind turbine and aerogenerator having the same
KR20120111793 A 20121011	KR20110029703 20110331	SAMSUNG HEAVY IND [KR]	F01K25/02; F02G5/04; F03D1/06; F03D9/02	GENERATOR OF SHIP USING THE ORGANIC RANKINE CYCLE
CN202300845U U 20120704	CN20112345747U 20110904	YUNNAN HUILE HIGH TECH CO LTD	F03D9/00; F03D3/00; F03D3/06; H02K7/18	Generator set for roads
KR101194893B B1 20121025	KR20110130082 20111207	SHIN IK JO [KR]; CHOI WON CHEL [KR]; BIOMECCA INC [KR]	F03D3/00; F03B13/00; F03D9/00	GENERATOR USING WIND POWER AND WATER POWER
KR20120091745 A 20120820	KR20110011714 20110210	PARK PAN SEOK [KR]	E01F9/04; B60Q7/00; F03D9/00; F21S9/02	GENERATOR-OPERATED DELINEATOR
CN202470208U U 20121003	CN20122059932U 20120220	CAI JINHONG	F24D13/04; F03D9/00; F24D19/00	Geothermal heating system with wind power generation
BRPI1102297 A2 20121120	EP20100161945 20100505	SIEMENS AG [DE]	H02K15/02; F03D11/04	gerador com um estator segmentado

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BRPI1104101 A2 20120904	BR2011PI04101 20110804	BOTELHO PAULO AFONSO ALVES [BR]	F03D11/04; B60K16/00; H02P9/00	gerador de energia eólica em plataforma na base da captação dos ventos
BRPI0714369 A2 20121225	EP20060014634 20060714; WO2007EP03018 20070404	AHRENS UWE [DE]	F03D5/00	gerador el?trico operado por vento
BRPI1102743 A2 20121211	EP20100167615 20100629	SIEMENS AG [DE]	H02K21/02; F03D11/04; H02K15/00	gerador, turbina e¾lica, mÚtodo de montagem de um gerador e uso de um gerador na turbina e¾lica
DE112010004882T T5 20120927	GB20090022345 20091218; WO2010US61359 20101220	ROMAX TECHNOLOGY LTD [GB]	F16H1/46; F03D11/04; F16H57/02	Getriebekastenanordnungen
WO2012089212 A1 20120705	US20100979884 20101228	VESTAS WIND SYS AS [DK]; MORAN GARRETT [US]; MCNEILL SHANSHAN [US]	F03D11/00; F03D1/06	GLOBAL WIND FARM SURVEILLANCE SYSTEMS USING FIBER OPTIC SENSORS
CN102639869 A 20120815	WO2010EP67291 20101111; US20090261231P 20091113	SCHAEFFLER TECHNOLOGIES GMBH	F03D11/00	GPS automated tracking of mobile monitoring units
CN202348592U U 20120725	CN20112507541U 20111208	TIANJIAO YOU	F03D11/04	Gravity sail-unfurling windmill
CN202348582U U 20120725	CN20112516111U 20111212	WENYOU CHEN	F03D9/00; F03D3/02; F03D7/06	Great-energy wind power generation device
KR20120093671 A 20120823	KR20110013372 20110215	KOREA ENERTECH CO LTD [KR]	H02J3/38; F03D9/02; G01R31/02; H02J7/35	GRID-CONNECTED GENERATING SYSTEM WITH PHOTOVOLTAIC AND WIND POWER HYBRID GENERATION AND GENERATOR THEREOF
CN202500724U U 20121024	CN20122084123U 20120301	SHANDONG JUYI NEW ENERGY CO LTD	F03D9/00	Grid-connected wind-driven generator

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KR20120124022 A 20121112	KR20120020943 20120229		F03D7/00; F03D1/06; F03D7/02; H02K7/18	WIND POWER GENERATION SYSTEM AND CONTROL METHOD THEREOF
CN202402216U U 20120829	CN20112567327U 20111230	YUXI WANG	F03D9/00; F03D1/02; F03D11/00; H02K7/10; H02K7/18	Group fan blade combined wind driven generator
CN102678479 A 20120919	CN20121149469 20120515	UNIV HARBIN ENG	F03D11/00	Guide edge concave-convex fan
WO2012110808 A2 20120823	GB20110002566 20110214	INTELLIGENT ORGANICS LTD [GB]; GORDON ROBERT WILLIAM LINDSAY [GB]	E04B1/34	HABITABLE STRUCTURE
DE202012006650U U1 20120823	DE201220006650U 20120707	HAWART SONDERMASCHB GMBH [DE]	B25B11/02; B23Q1/03; F03D11/04	Handhabevorrichtung f³r Stege bei der Rotorblattherstellung, insbesondere Stegsetzer
CN102705163 A 20121003	CN20121020949 20120130	XINTAI FENGLONGWANG EQUIPMENT CO LTD	F03D9/00; F03D7/02; F16D65/14	Hand-operated air-brake wind turbine
KR20120111138 A 20121010	KR20110029469 20110331	WESTERN ENERGY TECHNOLOGIES [KR]	F03D9/00; F03D3/00; F21S13/10; H01L31/042	HANGER TYPE WINDPOWER AND HYBRID TYPE STREET LIGHT USING SOLAR POWER AND THE WINDPOWER
CN102621980 A 20120801	CN20121116273 20120419	SHANGHAI KALU AUTOMATIC SCIENCE AND TECHNOLOGY CO LTD	G05B23/02; F03D7/00	Hardware-in-loop testing platform used for wind power generation electric variable-pitch system
WO2012089725 A1 20120705	EP20100016097 20101227	AREVA WIND GMBH [DE]; KOEHNE ANSGAR [DE]; ARNDT JOACHIM [DE]	E06B9/06; F03D11/00	HATCH COVER FOR WIND DRIVEN POWER PLANT
CN202342696U U 20120725	CN20112389792U 20111012	WUXI TONGCHUN NEW ENERGY TECH	A61N2/02; F03D9/00	Health-care device for reducing blood viscosity by using electromagnetic field formed by wind power generation
CN202483806U U 20121010	CN20122017766U 20120116	GUODIAN UNITED POWER TECH CO [CN]	F03D11/00; F28D15/02	Heat dissipation device of wind power generation water-cooling system and water-cooling system

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CN202451373U U 20120926	CN20112553941U 20111227	UNIV SOUTHEAST	F03D11/00	Heat-assisted ultrasonic combined deicing device
CN102748242 A 20121024	CN20121204249 20120620	WUXI CHIRUN SHEET METAL MACHINERY MFG CO LTD	F03D11/00	Heater fixing bracket for wind power generation system
EP2526294 A1 20121128	EP20100159632 20100412; WO2010EP63622 20100916; EP20100759607 20100916	SIEMENS AG [DE]	F03D11/00; B64D15/12	HEATING MATS ARRANGED IN A LOOP ON A BLADE
CN102700031 A 20121003	CN20111076392 20110328	SANY ELECTRIC CO LTD	B29C33/04; F03D11/00	Heating method in wind turbine generator blade manufacturing process and heating device for manufacturing
KR20120124030 A 20121112	KR20120044373 20120427		F03D7/00; F03D11/00; H02P9/04	WIND POWER GENERATION SYSTEM AND CONTROL METHOD THEREOF
CN202326044U U 20120711	CN20112495438U 20111202	SINOVEL WIND GROUP CO LTD [CN]	F03D11/00; F16L59/04	Heat-insulating device for low-temperature wind generating set
CN202468138U U 20121003	CN20112365558U 20110913	XIANGYANG LIUHECHUN POWER GENERATION RES CENTRAL; FEIFEI ZHOU; WEIZHONG ZHOU	F03B13/00; F03D9/00	Heavy metal water-guiding pressurizing generation device
JP2012149638 A 20120809	JP20100293373 20101228; JP20110290135 20111228	MITSUBISHI HEAVY IND LTD [JP]	F03D11/00	HEAVY OBJECT SUSPENSION STRUCTURE INSIDE NACELLE, AND WIND POWER GENERATOR HAVING THE SAME
WO2012150502 A1 20121108	US201161482574P 20110504	CONDOR WIND ENERGY LTD [GB]; JAKUBOWSKI MARTIN [GB]; CARUSO SILVESTRO [GB]; CAIOLI LUCIANO [GB]	F03D1/00; F03D11/00	HELICOPTER LANDING DECK
CN202326030U U 20120711	CN20112499366U 20111205	TANG ZHUIYUAN	F03D9/00; F03D3/00; F03D3/06	Hemispherical rotary equipment of wind power generating system

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CN202326615U U 20120711	CN20112463426U 20111119	NINGBO JINWEI STANDARD PART CO LTD	F16B35/00; F03D11/00; F16B43/00	Hexagon bolt component for wind power generation equipment
CN102536681 A 20120704	CN20121003890 20120106	GUANGDONG MINGYANG WIND POWER INDUSTRY GROUP CO LTD	F03D11/00	Hexagonal tower structure of wind driven generator
US2012248770 A1 20121004	US201113078952 20110402	BYUN JOONBUM [US]	H02P9/04; B64C31/06; F03D9/00	High Altitude Wind Power Generator with Kite and Dual Purpose Circular Fan
WO2012160446 A2 20121129	US201161489368P 20110524	CONDOR WIND ENERGY LTD [GB]; JAKUBOWSKI MARTIN [GB]; CARUSO SILVESTRO [GB]; CAIOLI LUCIANO [GB]	F03D1/00	HIGH CAPACITY ELEVATOR FOR WIND TURBINE MAINTENANCE
US2012275919 A1 20121101	US201113238217 20110921; US201113094952 20110427	SKYWOLF WIND TURBINE CORP [US]	F03D11/00	HIGH EFFICIENCY WIND TURBINE HAVING INCREASED LAMINAR AIRFLOW
US2012275903 A1 20121101	US201113293326 20111110; US201113094952 20110427; US201113238217 20110921	SKYWOLF WIND TURBINE CORP [US]	F03B13/00	HIGH EFFICIENCY WIND TURBINE INCLUDING PHOTOVOLTAIC CELLS
CN102628428 A 20120808	CN20121123720 20120425	DONGFANG TURBINE CO LTD DONGFANG ELECTRIC CORP	F03D9/00; F03D11/04	High power wind generating set
WO2012091918 A1 20120705	US201061427232P 20101227	DOW GLOBAL TECHNOLOGIES LLC [US]; VO VAN-CHAU [CH]; SAGNARD ALAIN [CH]; GORDON-DUFFY JOHN [CH]	C08J9/00; B32B5/18; C08J9/04; F03D11/00	HIGH STRENGTH EXTRUDED THERMOPLASTIC POLYMER FOAM

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WO2012126470 A1 20120927	DK20110000205 20110323	DANFOSS IXA AS [DK]; GREEN INSTR AS [DK]; JENSEN JENS MOELLER [DK]; SOERENSEN POUL KODAHL [DK]; BUCHNER RAINER [DK]; CHRISTENSEN PER ROMEDAHL [DK]; PIHL KENNETH [DK]; OLESEN OLUF SIGH [DK]	F03D1/06	HIGH TEMPERATURE GAS SENSOR
CN102606390 A 20120725	CN20121079931 20120325	HAOZHONG XU	F03D3/00; F03D3/06	High-effect hinge type wind power machine
CN202431435U U 20120912	CN20122044063U 20120213	YONGDI PAN	F03D3/00	High-efficiency flow guide type vertical axial fan
AU2011213426 A1 20120705	WO2011CN00174 20110131; CN201019114066 20100208	NAT WIND ENERGY CO LTD [CN]	F03D3/04	High-efficiency high-power vertical axis wind generator
CN102606391 A 20120725	CN20121079932 20120325	HAOZHONG XU	F03D3/00; F03D3/04; F03D3/06	High-efficiency hinge type fan engine
CN202381263U U 20120815	CN20122033518U 20120101	SICAN ZHANG	F03D9/00; F03D3/00	High-efficiency vertical wind power generation device
CN202545115U U 20121121	CN20112528874U 20111216	JIANHUA HUANG	F03D9/00; F03D11/00	Highly efficient wind driven generator
CN202531353U U 20121114	CN20122114245U 20120325	HAOZHONG XU	F03D3/00; F03D3/06	High-performance hinge-type wind energy power machine
EP2499338 A1 20120919	IT2009MI01997 20091113; WO2010EP66624 20101102	ALFONSI GIANCARLO [IT]	F01D1/14; F03B3/08; F03B3/16; F03B11/02; F03D3/04	HIGH-PERFORMANCE TURBINE WITH INCREASED SPECIFIC POWER
CN202328110U U 20120711	CN20112448295U 20111114	BANGJIAN LIU	F21V29/02; F03D9/00	High-power light emitting diode (LED) heat dissipation device

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CN102536676 A 20120704	CN20111156612 20110531; CN20111224995 20110808	ZIXIN WANG; YUN WANG; XINYUAN WANG; YULIN LIU	F03D9/02; F03D11/02	High-speed engine
CN202468780U U 20121003	CN20122056395U 20120221	SHANXI JIANGHUAI HEAVY INDUSTRY CO LTD	F16D55/225; F03D7/00; F16D65/18	High-speed shaft brake of wind power generating set
CN202451563U U 20120926	CN20122009054U 20120110	SHANGHAI SHENGUANG HIGH STRENGTH BOLTS CO LTD	F16B35/00; F03D11/00; F16B37/00; F16B41/00; F16B43/00	High-strength bolt connecting pair for environment-friendly chromium-free dacromet wind power
CN102606413 A 20120725	CN20111023583 20110121	XIAOTONG CHEN	F03D11/00; B23P21/00; F16B35/06	High-strength specially-strong tower drum connection structure and high-strength specially-strong fan tower drum as well as manufacturing method of high-strength specially-strong fan tower drum
CN202500726U U 20121024	CN20122114258U 20120325	CHONGQING XIZHI MACHINERY EQUIPMENT CO LTD	F03D9/00; F03D3/00; F03D3/06; H02K7/18	Hinge type efficient wind energy turbine
CN202531351U U 20121114	CN20122114251U 20120325	CHONGQING XIZHI MACHINERY EQUIPMENT CO LTD	F03D1/06	Hinge type efficient wind generator
CN202500713U U 20121024	CN20122114257U 20120325	CHONGQING XIZHI MACHINERY EQUIPMENT CO LTD	F03D1/06	Hinge type efficient wind-driven generator
CN202500717U U 20121024	CN20122114256U 20120325	HAOZHONG XU	F03D3/00; F03D3/06	Hinge type high-efficiency wind energy power machine
CN202500714U U 20121024	CN20122114264U 20120325	HAOZHONG XU	F03D1/06	Hinge type high-efficiency wind power machine
CN202500715U U 20121024	CN20122114247U 20120325	HAOZHONG XU	F03D3/00; F03D3/04; F03D3/06	Hinge type high-efficiency wind power machine

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CN202500727U U 20121024	CN20122114266U 20120325	CHONGQING XIZHI MACHINERY EQUIPMENT CO LTD	F03D9/00; F03D3/00; F03D3/04; F03D3/06	Hinge type high-efficient wind driven generator
CN202500718U U 20121024	CN20122114263U 20120325	HAOZHONG XU	F03D3/00; F03D3/04; F03D3/06	Hinge type high-performance wind energy power machine
CN202500729U U 20121024	CN20122114270U 20120325	CHONGQING XIZHI MACHINERY EQUIPMENT CO LTD	F03D9/00; F03D3/00; F03D3/06	Hinge type wind power generator
CN202500728U U 20121024	CN20122114269U 20120325	CHONGQING XIZHI MACHINERY EQUIPMENT CO LTD	F03D9/00; F03D3/04; F03D3/06; F03D11/00	Hinge type wind power generator
CN202500716U U 20121024	CN20122114249U 20120325	HAOZHONG XU	F03D3/00	Hinge upright shaft type high-effect wind energy engine
CN102606389 A 20120725	CN20121079930 20120325	HAOZHONG XU	F03D3/00	Hinge vertical shaft type high-effect wind energy power machine
DK177338B B1 20130121	DK20110000019 20110111	LIFTRA APS [DK]	B66C1/42; F03D1/00; F03D11/04	Hjälperedskab for löft af tunge og relativt lange emner, navnlig vinger til vindmöller.
DE102011102474 A1 20121129	DE201110102474 20110525	WAGNER PHILIPP [DE]	F03D11/04	Hoist for construction of wind turbine, comprises tower shaft that is attached with lift rail and crane, such that crane can be moved towards lift rail
EP2520792 A1 20121107	EP20110164948 20110505	SIEMENS AG [DE]	F03D1/00	Hoist system and method of providing a hoist system
CN202449761U U 20120926	CN20122065026U 20120227	ZHEJIANG HUAYI WIND ENERGY DEV CO LTD	B66C19/00; B66C7/08; F03D9/00	Hoister in cabin and wind generating set applying same
CN202300865U U 20120704	CN20112329575U 20110905	SHANDONG SHUANGYI GROUP CO LTD	F03D11/00	Hoisting opening cover for nacelle cover
CN202346583U U 20120725	CN20112500839U 20111206	HEBEI CHANGJIANG ZHONGYUAN RIGGING CO LTD	B66C1/12; B66C13/08; F03D11/00	Hoisting rigging for tower cylinder
US2012242087 A1 20120927	US201113072694 20110326	RUDER MATTHEW LEO [US]	F03D9/00	Hollow Core Wind Turbine

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CN202520487U U 20121107	CN2012299910U 20120316	UNIV JIAOTONG SOUTHWEST	F03D11/00	Hollow fan blade of wind driven generator
CN102588224 A 20120718	CN20121070121 20120316	UNIV JIAOTONG SOUTHWEST	F03D11/00	Hollow fan blade of wind generator
CN102606387 A 20120725	CN20121066883 20120314	UNIV XI AN JIAOTONG	F03D1/06	Horizontal axial-flow type wind turbine blade with slit structures
CA2732543 A1 20120823	CA20112732543 20110223	JET AGE WIND INC [CA]	F03D1/06	HORIZONTAL AXIS AIRFOIL TURBINE
EP2496834 A1 20120912	US20090257578P 20091103; WO2010US55239 20101103	888 CORP [US]	F03D3/02	HORIZONTAL AXIS RADIAL WIND TURBINE
CN202348555U U 20120725	CN20112544975U 20111213	INNER MONGOLIA SPACEFILGHT YIJIU TECHNOLOGY DEV CO LTD	F03D1/06	Horizontal axis wind generating set with variable wind wheel diameter
WO2012150623 A1 20121108	WO2011JP60499 20110502	E & E CO LTD [JP]; MOCHIZUKI NOBORU [JP]; HIRATA HIROMASA [JP]	F03D11/04; F03D1/06	HORIZONTAL AXIS WIND POWER GENERATOR
CN202326012U U 20120711	CN20112474972U 20111125	CHENGGE ZHANG	F03D7/04; F03D9/00	Horizontal axis windmill with wind-speed rudder
CN102767484 A 20121107	CN20121226832 20120629	FANG HUANG	F03D9/00; F03D7/04	Horizontal shaft type wind-driven generator
CN202326006U U 20120711	CN20112438509U 20111108	FUJIAN AVIONIC CONTROL EQUIPMENT CO LTD	F03D3/04; F03D3/06; F03D7/06	Horizontal type windmill device
US2012189446 A1 20120726	US20110930922 20110121	SAAREM MYRL J [US]	F03D7/02	Horizontal wind turbine with a vertical shaft
HK1132027 A1 20120706	WO2006FR00068 20060112	NHEOLIS SARL [FR]	F03D1/06	HORIZONTAL-AXIS WIND GENERATOR
RO127840 A0 20120928	RO20120000323 20120510	PUIE IOAN [RO]	F03D9/00	HORIZONTAL-AXIS WIND TURBINE

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CN102606386 A 20120725	CN20121030005 20120211	BLUESTAR ENVIRONMENTAL PROT ENERGY CO LTD	F03D1/06	Horizontal-shaft blade type wind-driven generator
CN202402214U U 20120829	CN20112521770U 20111214	HANQING CHENG; MA ZHICHAO	F03D9/00; F03D1/02; F03D11/00	Horizontal-shaft high-speed wind driven generator with multiple wind wheels mounted on high-rise wind wheel frame
CN202510285U U 20121031	CN2012216535U 20120115	UNIV HENAN SCIENCE & TECH	F03D9/00	Hot air tower generating device using industrial waste heat and solar energy
CN102691626 A 20120926	CN20121011095 20120115	UNIV HENAN SCIENCE & TECH	F03D9/00; F01K27/00; F03D11/00; F03G6/06; F24J2/04	Hot wind tower power generation device and method by using industrial waste heat and solar energy
CN202450809U U 20120926	CN20122064949U 20120227	QIGUI GUO	E04H5/02; F03D9/00	Hotairpower generating device
CN202370749U U 20120808	CN20112386112U 20110926	ZHANGFU DING	F03D9/00; F03D9/02	Household small-sized wind power generation device
CN202326046U U 20120711	CN20112507730U 20111208	SINOVEL WIND GROUP CO LTD [CN]	F03D11/00	Hub for wind generating set
CN202326047U U 20120711	CN20112510487U 20111208	SINOVEL WIND GROUP CO LTD [CN]	F03D11/00	Hub of wind turbine
CN202560482U U 20121128	CN20122153232U 20120412	JIANGSU GLOBAL LONGSHENG ENVIRONMENTAL TECHNOLOGY & DEV CO LTD	F03D11/00	Hubcap of wind driven generator
DE202011109985U U1 20120809	DE201120109985U 20110115	ZELL HORST [DE]	G01M13/00; B64C27/00; F03D11/00	Hubschrauber zur Überprüfung des baulichen Zustands von Windkraftanlagen
KR20120094333 A 20120824	KR20110013772 20110216	JANG JUN YOUNG [KR]	B25J5/00; F03D9/00	HUMANOID ROBOT HAVING SELF-GENERATION TYPE VANE
CN202417825U U 20120905	CN20112514500U 20111212	UNIV TSINGHUA RES INST	F03D9/00; F03D3/00; F03D3/06; F03D7/06	Hurricane-resisting high-efficiency wind-driven generator
KR20120140229 A 20121228	KR20120139770 20121204	HEO DONG BEOM [KR]	F03D9/00; F03B17/00; F03B17/02; F03D5/00	HVBRID WIND GENERATOR

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US2012308387 A1 20121206	US201113279755 20111024; US201161491849P 20110531	CLIPPER WINDPOWER LLC [US]	F03D11/02; F16H7/06; F16H37/02	Hybrid Drive Train for a Wind Turbine
KR20120124237 A 20121113	KR20110042012 20110503		F03D3/06; F03D11/00	Sabonius blade assembly of vertical axis wind turbine
KR20120124366 A 20121113	KR20120046280 20120502		F03D11/00; H05F3/02	LIGHTNING PROTECTION SYSTEM FOR A WIND TURBINE, WIND TURBINE AND METHOD FOR PROTECTING COMPONENTS OF A WIND TURBINE AGAINST LIGHTNING STRIKES
JP2012137039 A 20120719	JP20100290367 20101227	FUJITA YASUHIRO	F03D3/04; F03D3/06; F03D11/04	HYBRID POWER GENERATION DEVICE COMBINING SOLAR POWER GENERATION WITH WIND POWER GENERATION
GR1007651 B 20120717	GR20110100391 20110706	GIAKAS PANAGIOTIS [GR]	F03D3/00; F03D9/00; F03D9/02; H01L31/048; H01L31/058; H02N6/00	HYBRID POWER GENERATION ENGINE
WO2012127134 A2 20120927	FR20110000882 20110324; FR20110001233 20110420	UNG SENG-HONG [FR]; AZOUVY ALBERT [FR]	F03D3/00; F03G6/04; F03G6/06; F03G7/04	HYBRID SOLAR-WIND POWERED POWER STATION
KR101169546B B1 20120727	KR20110012652 20110214	NAT UNIV CHONBUK IND COOP FOUN [KR]	F03D9/00; F03G7/04; H01L31/042	HYBRID SYSTEM FOR GENERATING POWER
KR20120077650 A 20120710	KR20100139688 20101230	RES INST IND SCIENCE & TECH [KR]	F03D11/04; E04H12/02	HYBRID TOWER STRUCTURE
KR20120083174 A 20120725	KR20110004686 20110117	PISHON ENERGY INC [KR]	F03D9/00; F03D11/00; H01L31/042; H02J3/02	HYBRID TYPE WIND POWER GENERATION APPARATUS AND INVERTER CIRCUIT OF THE SAME

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CN202417814U U 20120905	CN20122026316U 20120119	MCC CAPITAL ENG & RES INC LTD; BEIJING JINGCHENG ZEYU ENERGY ENVIRONMENTAL PROT ENGINEERING TECHNOLOGY CO LTD	F03D3/06	Hybrid vertical-axis wind rotor of wind driven generator
WO2012169991 A1 20121213	WO2011US01021 20110606	KAMENOV KAMEN GEORGE [US]	F03D9/00; F03B13/00; F03B17/00	HYBRID WATER PRESSURE ENERGY ACCUMULATING WIND TURBINE AND METHOD
EP2531725 A1 20121212	WO2010EP00727 20100205; WO2011EP00526 20110204; EP20110703596 20110204	SKF AB [SE]	F03D11/00; F03D7/02; F16C27/06	HYBRID WIND TURBINE BLADE BEARING
CN202393082U U 20120822	CN20112381208U 20111009	YUGUI SU	F25B27/00; F03B13/00; F03D9/00	Hybrid wind-water power combination driving absorption type refrigerating system
CN202545110U U 20121121	CN2012229877U 20120130	XINTAI FENGLONGWANG EQUIPMENT CO LTD	F03D7/00; F03D11/00; F03D11/04	Hydraulic automatic variable-pitch wind turbine
CN102797635 A 20121128	CN2012120614 20120130; CN20121290469 20120815	XINTAI FENGLONGWANG EQUIPMENT CO LTD	F03D7/04; F03D1/06; F15B11/02	Hydraulic automatic variable-pitch wind turbine
CN102758869 A 20121031	CN20121267890 20120731	ZHANGZHOU NHEOLIS TECHNOLOGY CO LTD	F16D65/14; F03D7/06	Hydraulic brake system of wind driven generator
KR20120124371 A 20121113	KR20120047029 20120503		F03D11/00; F03D11/02; F16C33/00; F16C37/00	DIRECT DRIVE WIND TURBINE WITH A THERMAL CONTROL SYSTEM
CN102536648 A 20120704	CN20111435316 20111222	JIAOZUO RETHEL DISC BRAKES CO LTD	F03D7/00; F15B11/02	Hydraulic control method of wind power yaw system and yaw device for implementing method

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CN202370748U U 20120808	CN20112543694U 20111222	JIAOZUO RETHEL DISC BRAKES CO LTD	F03D7/00	Hydraulic control yawing device of wind-power yawing system
GR20110100071 A 20120920	GR20110100071 20110210	ASLANIS EMMANOUIL ANDREA [GR]	F03D9/00; H02K7/18	HYDRAULIC DRIVE TRANSMISSION SYSTEM PRACTICABLE FOR WIND GENERATORS
CN102705182 A 20121003	CN20121207283 20120621	RUJIAN ZHANG	F03D11/02; F03D7/00; F03D9/02	Hydraulic drive wind power generation system
CN102628426 A 20120808	CN20121113072 20120418	UNIV ZHEJIANG	F03D9/00; F03D7/00; F03D11/02; F15B1/02; F16H39/42	Hydraulic driving-based wind turbine and control method thereof
CN102635506 A 20120815	CN20121123051 20120424	GUANGDONG MINGYANG WIND POWER INDUSTRY GROUP CO LTD	F03D9/00; F03D7/00	Hydraulic lubrication cooling comprehensive control device of wind generation set
KR20120090759 A 20120817	WO2010JP06981 20101130	MITSUBISHI HEAVY IND LTD [JP]	F03D11/02; F03D7/04; F16H47/02; F16H47/04	HYDRAULIC PUMP STRUCTURE FOR WIND TURBINE GENERATOR OR TIDAL CURRENT GENERATOR AND METHOD OF MOUNTING HYDRAULIC PUMP
CN202370746U U 20120808	CN20112443610U 20111110	SANY ELECTRIC CO LTD	F03D7/00; F03D11/04	Hydraulic rotary driving device
CN102678471 A 20120919	CN20121193972 20120613	LUSHENG HUANG	F03D9/00; F03D11/02	Hydraulic speed-governing type wind power generation device with flywheel
DK201270160 A 20121001	US201161469888P 20110331	VESTAS WIND SYS AS [DK]	F03D11/02	Hydraulic transmission

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WO2012100783 A2 20120802	US201161437669P 20110130	VESTAS WIND SYS AS [DK]; LINDHOLDT NIELSEN PER [DK]; HERBSLEB EIK [DK]; JOERGENSEN ALLAN HOLM [DK]; NIELSEN CHRISTIAN MARK [DK]; HOEJSGAARD HANS HENRIK [DK]; KOLDKJAER PETER [DK]; GREGERSEN KRISTIAN [DK]	F03D7/02	HYDRAULIC TRANSMISSION METHODS AND APPARATUS FOR WIND TURBINES
CN102562456 A 20120711	US20100973221 20101220	GEN ELECTRIC [US]	F03D7/02	Hydraulic yaw drive system for a wind turbine and method of operating the same
WO2012094261 A2 20120712	US201161460623P 20110106	ROZNITSKY SAMUEL [US]	B63B35/34; B63B35/44; F03D11/04	HYDRODYNAMIC STABILIZATION OF A FLOATING STRUCTURE
US2012210944 A1 20120823	US20110932237 20110222	GODINICH STEPHEN LEE [US]	A01K61/00; F03D9/00; F15D1/00; H02P9/04	Hydro-electric generation method and system with saltwater flume for
AU2010352432 A1 20121115	WO2010ES70272 20100428	ACCIONA EN S A; INGETEAM ENERGY SA	C25B1/02; C25B15/02; F03D9/02	Hydrogen production system for regulating the power at renewable energy electric plants, and a regulation method
US2012187693 A1 20120726	US201113272482 20111013; US20100392724P 20101013	HOUVENER ROBERT C [US]; DOYLE TYLER NATHANIEL [US]	F03B13/10; F03D1/06; F03D9/00; F03D11/04	HYDROKINETIC ENERGY TRANSFER DEVICE AND METHOD
EP2505831 A2 20121003	ES20110000367 20110330	GAMESA INNOVATION & TECH SL [ES]	F03D11/00	Ice detection method and system for wind turbines, using sun radiation sensors
GB2491275 A 20121128	GB20110010003 20110614	ROMAX TECHNOLOGY LTD [GB]	F03B11/00; F03D11/00	Identifying wind or water turbines for maintenance

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WO2012088740 A1 20120705	CN20101623950 20101231	BEIJING HENGJU CHEMICAL GROUP CORP [CN]; GUO WENLI [CN]	F03D9/00; F03D1/04; F03D3/04; F03D7/06	IMPACT TYPE WIND-DRIVEN POWER GENERATING DEVICE
JP2012137079 A 20120719	JP20100294849 20101224	TAKAO NOBUHIRO	F04D29/38; F03D1/06; F03D11/00; F04D29/32	IMPELLER
CN102536659 A 20120704	CN20121045922 20120227	GUANGDONG MINGYANG WIND POWER INDUSTRY GROUP CO LTD	F03D7/02; F03D1/06	Impeller locking automatic control system and method for large wind power generator
CN202493375U U 20121017	CN20112378980U 20110925	DAHUBAYAER	F03B3/14; F03D1/06	Impeller pantographic fluid dynamic power generation device
ITPD20110199 A1 20121216	IT2011PD00199 20110615	BOSELLO MARCO; CAZZARO PAOLO	F03D3/002; F03D3/005; F03D3/02; F03D3/068; F05B2240/9112	IMPIANTO EOLICO AD ASSE VERTICALE O ORIZZONTALE
EP2490975 A1 20120829	US20090604817 20091023; WO2010EP66002 20101022	VESTAS WIND SYS AS [DK]	B66C17/06; B66C23/62; F03D1/00	IMPROVED APPARATUS AND METHOD FOR ASSEMBLING WIND TURBINES
AU2012101179 A4 20120830	WO2011AU00464 20110418; AU20120101179 20110418	KIRKE BRIAN	F03D3/06; F03B3/14; F03B3/18; F03B15/18; F03D3/04; F03D7/06	Improved cross flow wind or hydrokinetic turbines
SG181892 A1 20120830	WO2010US61183 20101218; US20090644739 20091222	LUCID ENERGY TECHNOLOGIES LLP [US]	F03D3/064; Y02E10/74	IMPROVED DESIGNS FOR TURBINE ASSEMBLIES
CN102635100 A 20120815	CN20121126762 20120425	UNIV GUILIN TECH GUT	E02B9/00; F03B13/08; F03D9/00	Improved ecotype generating set
CN202301181U U 20120704	CN20112391041U 20111014	ZHONGYI GUO; GAO ZHENKAI	F04D29/38; F03D1/06	Improved structure of fan blade
CN102748212 A 20121024	CN20121204281 20120620	WUXI CHIRUN SHEET METAL MACHINERY MFG CO LTD	F03D7/00; H05K5/02	Improved variable pitch structure for wind power generation system

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CN202560461U U 20121128	CN20122215854U 20120514	BAOYANG LI	F03D3/06	Improved wind driven generator blade
CN102619685 A 20120801	ES20110000090 20110131	GAMESA INNOVATION & TECH SL [ES]	F03D7/00	Improved wind turbine control methods and systems
WO2012146252 A2 20121101	DK20110070203 20110428	VESTAS WIND SYS AS [DK]; ABDALLAH IMAD [DK]; GODSK KRISTIAN [DK]; ROMBLAD JONAS [DK]; LIM CHEE KANG [SG]	F03D7/02	IMPROVED WIND TURBINE NOISE CONTROL METHODS
CZ24508U U1 20121114	CZ20120026662U 20120911	VALEK FRANTISEK [CZ]	F03B7/00; F03B3/12; F03B13/12; F03D3/04	Impulsive hydraulic turbine
US2012207604 A1 20120816	US20110931915 20110214	HOBSON GREGORY LEE [US]	F03D9/00	Incapsulated horizontal wind turbine
GB2488803 A 20120912	GB20110003971 20110309	SWAY TURBINE AS [NO]	F03D1/00; F03D11/00; F03D11/04	Inclined mounting with hinging hooks for fixing wind turbine rotor fixed shaft to tower
CN102536644 A 20120704	CN20121062932 20120312	BEIJING SHIGUANG LONGTENG WINDPOWER TECHNOLOGY DEV CO LTD	F03D5/00; F03D9/00	Inclined-axis wind power generation set
CN202441538U U 20120919	CN20122089329U 20120312	BEIJING SHIGUANG LONGTENG WINDPOWER TECHNOLOGY DEV CO LTD	F03D5/00; F03D9/00	Inclined-shaft wind generator set
CN202326025U U 20120711	CN20112473477U 20111124	SINOVEL WIND GROUP CO LTD [CN]	F03D9/00; F03D11/00; F16H1/28	Increasing gear for wind generating set and wind generating set
US2012251316 A1 20121004	US201213526397 20120618; US201113032431 20110222; US20100378740P 20100831	CATCH THE WIND INC [US]	F03D7/04	INDEPENDENT BLADE PITCH CONTROL

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PL393945 A1 20120827	PL20110393945 20110216	INST LOTNICTWA [PL]	F03D3/04; F03D1/04	Independent of wind direction enclosed wind turbine with vertical rotation axis and horizontal position of the rotor
CN102536649 A 20120704	CN20111447352 20111228	UNIV YANSHAN	F03D7/00	Independent pitch variable system for proportional valve-controlled hydraulic motor
CN102777330 A 20121114	CN20121268895 20120801	GUODIAN UNITED POWER TECHNOLOGY LIANYUNGANG CO LTD	F03D11/00; F16H57/04; H02K9/19; H02M1/00; H05K7/20	Independent water cooling device of large-scale megawatt-level wind generating set
DK2325483T T3 20121119	EP20090014633 20091124	SIEMENS AG [DE]	F03D11/00	Indretning med en modulõr nacelle med en udstrÕler
DK1650431T T3 20121203	DE200410051054 20041019	REPOWER SYSTEMS SE [DE]	F03D7/02; F03D11/00	Indretning til et vindenergianlõg
WO2012169398 A1 20121213	JP20110128713 20110608	SUMITOMO ELECTRIC INDUSTRIES [JP]; UNIV KYOTO [JP]; OKAZAKI TORU [JP]; MATSUO TETSUSHI [JP]; MIFUNE KEN [JP]	H05B6/02; F03D9/00; F03D9/02; H05B6/10	INDUCTION HEATING DEVICE AND POWER GENERATION SYSTEM PROVIDED WITH SAME
NL2006355C C 20120911	NL20112006355 20110308	S4 ENERGY B V	F03D9/02; F03G3/08; F16F15/167	INERTIAL ENERGY ACCUMULATING DEVICE.
US2012243991 A1 20120927	US201213425501 20120321; US201213384621 20120118; US201161466056P 20110322	HAN KYUNG SOO [US]	H02P9/02; F03B3/00; F03D1/00; F16H57/08	INFINITELY VARIABLE MOTION CONTROL (IVMC) FOR GENERATORS, TRANSMISSIONS AND PUMPS/COMPRESSORS
CN202428737U U 20120912	CN20112574860U 20111231	SINOVEL WIND GROUP CO LTD [CN]	B32B17/04; B32B17/12; F03D11/00	Inflaming-retarding nacelle,nacelle cover plate wind turbine generator set and inflaming-retarding nacelle,nacelle cover plate of wind generator set
CN102562485 A 20120711	CN20121018028 20120119	UNIV TSINGHUA; ZENG JIAO	F03D11/00	Inhaul cable device used for reinforcing stability of blades of large wind driven generator

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US2012175882 A1 20120712	US20110930542 20110110	STERLING PETER JOHN [US]; STERLING ZINA [US]; STERLING KETZAL [US]; WOODS GEOFFREY [US]	F03D9/00	Injector venturi accelerated, wind turbine
EP2495370 A1 20120905	EP20110001808 20110304	LEENAARS CEES EUGEN JOCHEM [NL]	E02D27/42; E02B17/02; F03D1/00	In-line piling method for offshore wind turbine foundation applications
CN202392080U U 20120822	CN20112337558U 20110909	CHONGQING GEARBOX CO LTD	F16H57/02; F03D11/02; F16H57/08	Input connection structure of wind-power gearbox
CN102691784 A 20120926	CN20121134018 20120503	NANJING HIGH SPEED GEAR MFG CO LTD	F16H57/08; F03D11/02; F16H57/04	Input planet carrierin gearbox of high-power wind driven generator
CN102777321 A 20121114	CN20121301237 20120822	SINOVEL WIND GROUP CO LTD [CN]	F03D7/02	Input signal acquisition device and method of independent variable-pitch control system
US2012207607 A1 20120816	CN20091175881 20090923; CN20101215195 20100624; WO2010CN01468 20100921	SUZHOU RED MAPLE WIND BLADE MOULD CO LTD [CN]	F03D11/00; B23P15/04	INSERT FOR WIND TURBINE BLADE ROOT
CN102704894 A 20121003	CN20121172216 20120530	UNIV SHANGHAI JIAOTONG	E21B43/00; E21B43/16; E21B43/22; E21B43/24; E21B43/34; F03D9/00; H02J7/00; H02N6/00	In-situ submarine natural gas hydrate exploiting device and method thereof
EP2530311 A2 20121205	ES20110000618 20110601	GAMESA INNOVATION & TECH SL [ES]	F03D11/00; F03D1/00	Inspection trolley
ES2390672T T3 20121115	DE200410012946 20040317	STEMMANN TECHNIK GMBH [DE]	F03D11/00	Instalaci¾n de energÝa e¾lica
ES2387662 A1 20120927	ES20100001243 20100928	TORRES MARTINEZ M [ES]	F03D1/06; B29C65/78; F03D11/00	INSTALACION PARA ENSAMBLADO DE ESTRUCTURAS DE MATERIALES COMPUESTOS.

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CN202558447U U 20121128	CN20122185154U 20120427	SECOND ENGINEERING COMPANY OF CCCC FOURTH HARBOR ENGINEERING CO LTD	B66C1/10; B66C13/08; F03D11/04	Installation auxiliary support system for offshore wind turbine
CN102705178 A 20121003	CN20121187130 20120607	UNIV SHANGHAI JIAOTONG	F03D11/00; B23P21/00	Installation device for offshore wind generating set
FR2970525 A1 20120720	FR20110050367 20110117	WILS GERARD [FR]	F03B17/06; F03B13/12; F03D5/02	INSTALLATION ENERGETIQUE ADAPTEE POUR EXPLOITER UN FLUX DE FLUIDE
CN202422634U U 20120905	CN20122012220U 20120112	YINGKOU LINTONG WEINING TECHNOLOGY CO LTD	G09F13/02; F03D9/00	Integral wind-solar hybrid billboard
CN102767485 A 20121107	CN20121270156 20120731	UNIV NORTH CHINA ELEC POWER	F03D9/02; F03B13/16; F03D3/00; F15B1/02	Integrated power generation system using sea wind waves
CN102748896 A 20121024	CN20111194269 20110712	SHENZHEN CITY NUOBIDA ENERGY SAVING ENVIRONMENTAL PROT CO LTD	F25B29/00; F03D9/00; F25B49/02	Integrated system combining complementary power supply device, heat supply and refrigeration
KR101171714B B1 20120809	KR20110139387 20111221	YANG SEUNG JIK [KR]	F03D11/04; E02B17/00; E04H12/00	INTEGRATED TOWER WITH A CRANE FOR WIND POWER GENERATOR AND CONSTRUCTION METHOD OF THE WIND POWER GENERATOR USING THEREOF
CN202520481U U 20121107	CN2012241578U 20120209	BAILI ZHANG	F03D9/00	Integrated wind driven generator array with low wind operation
US2012328434 A1 20121227	US201113581286 20110225; US20100308219P 20100225; WO2011US26372 20110225	UNIV CALIFORNIA [US]	F03D1/06; F03D3/06	INTEGRATED WIND TURBINE

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CN202363061U U 20120801	CN20112484716U 20111129	NANJING CHUHE ENGINEERING ADMINISTRATION; UNIV HEHAI	G09F13/22; F03D9/02	Intelligent advertising box based on wind power generation
CN102644548 A 20120822	CN20121145885 20120512	YONGPING LI	F03D7/00	Intelligent control kite wind power generating device
CN102588213 A 20120718	CN20111009837 20110117	SHOUQUAN SUN	F03D7/04; F03D1/06; G01N21/88	Intelligent monitoring device for blades of wind driven generator
CN202391652U U 20120822	CN20112445483U 20111111	NANTONG TEXTILE VOCATIONAL TECHNOLOGY COLLEGE	F03D9/00; F03D3/06; F03D7/06	Intelligent reducing self-starting vertical axis wind generating device
CN202468160U U 20121003	CN20122112922U 20120323	HEILONGJIANG RUIHAO TECHNOLOGY GROUP CO LTD	F03D7/00	Intelligent regulation and control device of 3MW wind generating set
CN202340414U U 20120725	CN20112389832U 20111012	WUXI TONGCHUN NEW ENERGY TECH	A01C11/02; F03D9/00; H04N5/335	Intelligent transplanter with wind power generation system to supply power for image sensor
CN202381261U U 20120815	CN20112537872U 20111220	ZIGENG LI	F03D9/00; F03D3/00; F03D3/06; F03D7/06	Intelligent vertical blade adjusting device for wind driven generator
CN102734086 A 20121017	CN20121226752 20120629	BEIJING JINFENG KECHUANG WIND POWER EQUIPMENT CO LTD	F03D11/00; E05F15/00; F03D7/00	Internal corrosive prevention device and method for wind driven generator
CN202360305U U 20120801	CN20112501563U 20111205	GOLDWIND SCIENCE & TECHNOLOGY CO LTD	F03D11/00; F03D7/00	Internal environment control system of wind generating set
CN102788095 A 20121121	CN20121259220 20120725	DALIAN METALLURG BEARING CO LTD	F16C41/00; F03D11/00	Internal gear yaw bearing capable of preventing lightening strikes
CN202500731U U 20121024	CN20122058873U 20120222	FUXIN JINYIN NEW ENERGY TECHNOLOGY CO LTD	F03D11/00	Internal prestressed steel-concrete wind power tower
CN102748233 A 20121024	CN20121252262 20120719	JIANGSU YUANZHONG DC MICROGRID CO LTD	F03D9/00; F03D3/06; H02N15/00	Internal resistance type magnetic suspension wind driven generator with vertical blades

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CN202545137U U 20121121	CN20122175765U 20120424	FUXIN JINYIN NEW ENERGY TECHNOLOGY CO LTD	F03D11/00; F03D11/04	Internally-prestressed planted bar connection type concrete wind power tower
CN202484091U U 20121010	CN20112564576U 20111229	SHANGHAI UNITED BEARING CO LTD	F16C33/37; F03D11/00; F16C33/66	Isolating block of wind power generator yaw bearing
CN102734081 A 20121017	EP20110162612 20110415	SIEMENS AG [DE]	F03D11/00; F03D11/04	Jacket assembly guide
EP2534313 A1 20121219	EP20100163754 20100525; WO2010EP63546 20100915; EP20100757061 20100915	SIEMENS AG [DE]	E02D27/42; F03D1/00	JACKET STRUCTURE FOR OFFSHORE CONSTRUCTIONS
EP2534309 A1 20121219	EP20100163758 20100525; WO2010EP63446 20100914; EP20100755133 20100914	SIEMENS AG [DE]	E02B17/00; E04H12/10; E04H12/14; F03D11/04	JACKET STRUCTURE FOR OFFSHORE CONSTRUCTIONS
US2012187697 A1 20120726	US201213351161 20120116; US201161461661P 20110121	OFRAY ALVIN [US]	F03D9/00; F01D25/24	Jet Streamer Turbine
WO2012114855 A1 20120830	JP20110035806 20110222; JP20110244103 20111108; JP20110244104 20111108	TAKATA MITUKUNI [JP]	F03D1/04; F03D1/06; F03D7/04; F03D9/00	JET WIND POWER GENERATING DEVICE
CN202370759U U 20120808	CN20112467445U 20111122	SANY ELECTRIC CO LTD	F03D11/00	Jigger driving adjusting device and wind driven generator
WO2012150915 A1 20121108	WO2011US00766 20110503	MORALES FRANQUI JOSE E [US]	F03D1/02	JMF DOUBLE TUNNEL WIND TURBINE

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CN102536634 A 20120704	US20100963159 20101208	GEN ELECTRIC [US]	F03D1/06	Joint sleeve for a rotor blade assembly of a wind turbine
CN102541264 A 20120704	CN20101602353 20101223	FUTAIHUA IND SHENZHEN CO LTD; HON HAI PREC IND CO LTD	G06F3/02; F03D9/00	Keyboard capable of generating power
CN102619698 A 20120801	CN20121130907 20120501	YONGPING LI	F03D9/00; A63H27/08; F03D7/00	Kite wind power generation system
CN102635508 A 20120815	CN20121131800 20120502	YONGPING LI	F03D9/00; F03D7/00	Kite wind power generation system with high-efficiency gesture control mechanism
DK2345811T T3 20121119	EP20100000317 20100114	SIEMENS AG [DE]	F03D1/00; B66C1/42; B66C1/62	Klemme til klemning af et blad til en vindturbine og fremgangsmÕde til installering af vindturbineblade
DE202012009007U U1 20121123	DE201220009007U 20120919	BRANDES HENNING [DE]	F03D9/00	Kombination eines Auftriebskraftwerk mit einer Entsalzungsanlage
DK2216547T T3 20121126	US20090355124 20090116	GEN ELECTRIC [US]	F03D11/02; F16H1/28; F16H1/46; H02K7/116	Kompakt geardrivvõrk til en vindturbine
DE202012007247U U1 20120823	DE201220007247U 20120727	BOTTIN REINHOLD [DE]	F03D11/04	Kompaktwindkraftanlage
DE202012006368U U1 20120821	DE201220006368U 20120702	HUBER GERNOT [DE]	F03D11/00	Konturenaufl÷sung durch Farbgebung an Windkraftanlagen
CN202326024U U 20120711	CN20112473427U 20111124	UNIV SHENYANG TECHNOLOGY	F03D9/00; F03D7/04; F03D11/04	KW-level off-grid and on-grid type direct-driven permanent wind-driven generator set
CN202545126U U 20121121	CN20122111355U 20120323	SHENYANG WIND POWER EQUIPMENT DEV CO LTD	F03D11/00	Laminated lightweight hub of composite material
DE102011051172 A1 20121220	DE20111051172 20110617	KAESTNER LARS [DE]	F03D1/06	Laminated rotor blade for wind turbine, has several pultrusion portions that are arranged at surface of insert portion, and are coated with fiber or woven fabric tube that is longer than that of insert portion

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WO2012142695 A1 20121026	US201161475729P 20110415	BRYSON THOMAS PATRICK [CA]	H02J7/02; B60L11/18; B60S5/06; H01R24/86	LAMP POST WITH POWER RECEPTACLE FOR ELECTRIC VEHICLE CHARGING
CN202560466U U 20121128	CN20122143462U 20120409	UNIV HEBEI AGRICULTURE	F03D9/00; F03B13/06; H02J7/32; H02N6/00	Landscape type wind-solar-water complementary generation system
CN102562479 A 20120711	CN20111394097 20111123	INNER MONGOLIA SPACEFILGHT YIJIU TECHNOLOGY DEV CO LTD	F03D11/00; F03D7/02	Large fan blade deicing system and method thereof
KR20120118588 A 20121029	KR20110036036 20110419	ADTECS CO LTD [KR]	F16C33/58; F03D11/00; F16C19/06	LARGE SLEWING BEARING FOR WIND POWER GENERATOR
CN102606420 A 20120725	CN20121111340 20120416	GUODIAN UNITED POWER TECH CO [CN]	F03D11/00; F03D7/00	Large wind driven power generator and sectional type blade thereof
CN102720632 A 20121010	CN20121225362 20120629	GUODIAN UNITED POWER TECH CO [CN]	F03D1/06	Large wind generating set blade and application thereof
CN202483796U U 20121010	CN20112400695U 20111020	MAOLIN LIU	F03D9/00; F03D1/02; F03D7/02; F03D11/00	Large windmill type strong wind driven generator
CN202370763U U 20120808	CN20112554765U 20111227	TIANJIN XINMAO XINFENG ENERGY TECHNOLOGY CO LTD	F03D11/00	Large-diameter wind power blade of aluminum honeycomb sandwich material
US2012230811 A1 20120913	US201013261251 20101013; US20100799202 20100420; US20090278813P 20091013; WO2010US02738 20101013; US20090214151P 20090420	TIANCHON CARMELITO B [US]	F03D3/04; F03D3/06; F03D11/04; F16F15/315	LARGE-SCALE VERTICAL-AXIS HYBRID TURBINE, ROTOR AND FLYWHEEL SYSTEM
CN202545133U U 20121121	CN20122159821U 20120416	GUODIAN UNITED POWER TECH CO [CN]	F03D11/00; F03D7/00; F03D9/00	Large-scale wind-driven generator and segmental blades thereof

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CN102536666 A 20120704	CN20101580635 20101209	XIAMEN LANXI TECHNOLOGY CO LTD	F03D9/00; F03D11/04	Large-size direct-drive double wind-driven generator system and installation method thereof
CN202403169U U 20120829	CN20112365810U 20110926	ZIFAN LING	F21S9/04; F03D3/02; F03D9/00	LED street lamp with wind energy
KR20120072538 A 20120704	KR20100134327 20101224	SAMSUNG HEAVY IND [KR]	B63B35/44; B21D5/10; E02B17/00; F03D11/00	LEG OF WIND TURBINE INSTALLATION VESSEL AND METHOD FOR MANUFACTURE THEREOF
CN202417811U U 20120905	CN20122051875U 20120217	BEIJING KHAN WIND TECHNOLOGY CO LTD	F03D1/06	Lengthened type wind driven generator blade
CN102606410 A 20120725	CN20121097244 20120405	ENCHANG CHEN	F03D9/00; F03B13/00; F03D11/02; F16H21/12	Lever driving power generating mechanism
CN102691615 A 20120926	US201113053532 20110322	GEN ELECTRIC [US]	F03D1/06	Lift device for rotor blade in wind turbine
CN102758740 A 20121031	CN20111394140 20111202; CN20121266956 20120731	KANGWANG WU; ZHAOQI HUANG; QING ZHANG	F03D9/00; F03D3/04; F03D3/06; F03D11/00; F03D11/02	Lift force and resistance combined vertical axis wind power generation system
CN202520482U U 20121107	CN2012251098U 20120215	XIAMEN LIYIXIN ENERGY TECHNOLOGY CO LTD	F03D9/00; F03D3/06	Lift-drag combined vertical axis breeze-driven generator
CN202300873U U 20120704	CN20112411267U 20111025	SHANGHAI ELECTRIC WINDPOWER EQUIPMENT CO LTD	F03D11/00; H02G3/00	Lifting basket structure for power cables of large wind power generator set
DE102011011603 A1 20120823	DE20111011603 20110217	BODE MARTIN [DE]; WREDE JAN [DE]	B66C1/66; B66C1/54; F03D11/04	Lifting device for lifting e.g. tower section of offshore-wind turbine, has grippers moved through opening of front end limited by annular flange in retracted state and engaged behind flange at underside of device in extended state
CN202429934U U 20120912	CN20112570452U 20111230	SINOVEL WIND GROUP CO LTD [CN]	B66C25/00; F03D11/04	Lifting device for parts in hub of wind generating set, and wind generating set

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CN102661254 A 20120912	CN20121155629 20120519	LIQING SUN	F03D11/00	Lifting device for wind power generator
CN202483795U U 20121010	CN20122083045U 20120307	SUN LIQING	F03D7/06; F03D11/00	Lifting device of wind power generator
CN102659015 A 20120912	CN20121171613 20120529	CHINA NAT OFFSHORE OIL CORP; OFFSHORE OIL ENG CO LTD; UNIV HARBIN ENG	B66C1/10; B66C13/08; F03D11/00	Lifting machine tool for impellers of offshore wind turbines
CA2765973 A1 20120731	EP20110152655 20110131	SIEMENS AG [DE]	B66C1/16; B65D85/68; B66C1/62; F03D11/00	LIFTING SYSTEM AND METHOD FOR LIFTING ROTOR BLADES OF WIND TURBINES
NL2006963C C 20121218	NL20112006963 20110617	HEEREMA MARINE CONTRACTORS NL	B66C1/10; B66C1/16; B66C23/52; E02B17/00	LIFTING SYSTEM FOR LIFTING AN ITEM.
DE102011102371 A1 20121129	DE201110102371 20110525	WAGNER PHILIPP [DE]	F03D11/04	Lifting unit for construction, maintenance and demounting of wind energy plants, has tower structure, such that outer side of tower structure is moved freely up and down, where tower shaft is trained for free movability of lifting unit
AU2011231622 A1 20120927	DE201020004093U 20100323; WO2011EP54432 20110323	WOBBEN PROPERTIES GMBH [DE]	B66C1/12	Lifting unit for lifting a rotor of a wind energy installation
CN102536665 A 20120704	CN20111407623 20111209	UNIV HEHAI; NANJING HEHAI TECHNOLOGY CO LTD	F03D7/06	Lifting-power type vertical shaft windmill adopting aerodynamic brake
CN202381254U U 20120815	CN20112510773U 20111209	UNIV HEHAI; NANJING HEHAI TECHNOLOGY CO LTD	F03D3/06; F03D7/06	Lift-type blade
EP2494190 A1 20120905	US20090254889P 20091026; WO2010CA01676 20101026	LUX GLENN RAYMOND [CA]	F03D3/06; B64C27/473; F01D5/30	LIFT-TYPE VERTICAL AXIS TURBINE

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CN102704716 A 20121003	CN20111125007 20110505	HUAIMIN LV; SHEN LV	E04H5/00; C02F1/14; C02F3/34; C05F7/00; C05F9/02; C05F9/04; F03D9/00; F24J2/00; H02N6/00	Light shed energy source device
CN202417830U U 20120905	CN20112547767U 20111224	SHENGRAN LI	F03D9/00; F03D3/06; H02K3/04; H02K3/28; H02K5/04	Light wind driven generator
US2012235410 A1 20120920	US201113048828 20110315	SERRANO RICHARD J [US]	H01L31/052; B64B1/50; F03D9/00; G05D1/00; H02P9/04	LIGHTER THAN AIR WIND AND SOLAR ENERGY CONVERSION SYSTEM
US2012319407 A1 20121220	US201213565916 20120803; US20090579839 20091015; US20080105509P 20081015	ALTAEROS EN INC [US]	F03D9/00	LIGHTER-THAN-AIR CRAFT FOR ENERGY-PRODUCING TURBINES
CN102606428 A 20120725	CN20121072820 20120316	ZAOJUN LIANG	F03G6/06; F01D15/10; F03D9/00; F24J2/10	Light-gathering energy-storage type solar thermal power and airflow mixed power generation system
EP2504494 A1 20121003	NL20092003865 20091125; WO2010NL50790 20101125	WEST 6 B V [NL]	E01F9/015; F03D9/00	LIGHTING DEVICE WITH A WIND-POWERED CLEANING MEMBER
CN202384732U U 20120815	CN20112531061U 20111213	EULIKIND TIANJIN CO LTD	H02G13/00; F03D11/00	Lightning conductor for glass fiber-reinforced plastic wind power cabin cover

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EP2513476 A2 20121024	EP20090179235 20091215; US20090286413P 20091215; WO2010EP07507 20101209; EP20100787706 20101209	VESTAS WIND SYS AS [DK]	F03D11/00	LIGHTNING CURRENT TRANSFER ASSEMBLY FOR A WIND TURBINE
JP2012164446 A 20120830	JP20110022215 20110204	UNIV NIIGATA	H05F3/04; F03D11/00	LIGHTNING DAMAGE COUNTERMEASURE DEVICE OF HIGH-RISE BUILDING STRUCTURE
CA2764849 A1 20120731	CN20111034134 20110131	SINOVEL WIND GROUP CO LTD [CN]	H02G13/00; E04B1/92; E04H9/00; E04H9/14; F03D11/00; H01R4/30; H01R4/66	LIGHTNING PROTECTION DEVICE AND WIND TURBINE
CN202545124U U 20121121	CN2012213081U 20120112	TIANJIN ELECTRIC POWER CORP; TIANJIN ELECTRIC POWER DESIGN INST	F03D11/00; H02H9/04	Lightning protection device for protecting microgrid miniature fan
CN102536682 A 20120704	CN20121008361 20120112	TIANJIN ELECTRIC POWER CORP; TIANJIN ELECTRIC POWER DSEIGN INST	F03D11/00	Lightning protection device for protecting small fan in microgrid
CN202431453U U 20120912	CN20112529407U 20111217	CHONGQING GENERAL INDUSTRY GROUP CO LTD	F03D11/00; H01T19/00	Lightning protection device for wind turbine blades
JP2012149569 A 20120809	JP20110008690 20110119	INST NAT COLLEGES TECH JAPAN; UNIV TOYOHASHI TECHNOLOGY	F03D11/00; F03D1/06; H05F3/04	LIGHTNING PROTECTION METHOD AND DEVICE FOR WINDMILL
MX2012008907 A 20120815	JP20100023504 20100204; WO2011JP52299 20110203	JAPAN STEEL WORKS LTD [JP]	F03D11/00; H02G13/00; H05F3/04	LIGHTNING PROTECTION STRUCTURE FOR BLADE FOR WIND POWER GENERATION.

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KR20120124969 A 20121114	KR20110042940 20110506		E02D27/02; E04H12/22; F03D11/04	Construction method for infrastructure which is established in the sea
KR20120124999 A 20121114	KR20110042991 20110506		F03D9/00; F03B13/14; F03D3/00; F03D11/02	Hybrid electric power generator using wave force and wind force
CA2775627 A1 20121103	EP20110164586 20110503	SIEMENS AG [DE]	H02G13/00; F03D11/00	LIGHTNING PROTECTION SYSTEM FOR A WIND TURBINE, WIND TURBINE AND METHOD FOR PROTECTING COMPONENTS OF A WIND TURBINE AGAINST LIGHTNING STRIKES
CN102619703 A 20120801	CN20121083327 20120326	GUANGDONG MINGYANG WIND POWER INDUSTRY GROUP CO LTD	F03D11/00; G01R31/00	Lightning-proof on-line monitoring device on wind driven generator
CN202431456U U 20120912	CN20112566761U 20111230	SINOVEL WIND GROUP CO LTD [CN]	F03D11/00	Lightning-proof wind-powered tower drum
CN102646909 A 20120822	CN20121123045 20120424	GUANGDONG MINGYANG WIND POWER INDUSTRY GROUP CO LTD	H01R39/24; F03D11/00; H01R39/20	Lightning-protection brush used for lightning-protection conducting ring of vane of wind driven generator
CN202390775U U 20120822	CN20112577193U 20111231	YUXIN LIU	E01F7/02; F03D9/00	Light-reflection and electricity-generation dual-purpose highway reflection plate
CN202326874U U 20120711	CN20112448226U 20111114	JIANGSU YUJIE STEEL STRUCTURE MACHINE CO LTD; UNIV SOUTHEAST	F16F7/104; F03D11/00	Line pendulum type wind driven generator tower vibration damping device
CN102758911 A 20121031	US201113097808 20110429	GEN ELECTRIC [US]	F16H57/08; F03D11/02; F16H1/32	Liquid equalized gear system and method for using same
DE102011001906 A1 20121011	DE20111001906 20110408	SCHULER PRESSEN GMBH & CO [DE]	E02D27/42; F03D11/04	Load distribution element for armature assembly used for base of wind turbine, has several tabs which are projected away from inner side of flange portion to form raising unit that places component inside tower of wind turbine

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DE102011116189 B3 20121004	DE201110116189 20110621	REPOWER SYSTEMS SE [DE]	F03D11/04	Load handling device for raising rotor blade of wind energy plant to mounting position, has support assembly having supporting surface projected in vertical plane to make contact of rotor blade or attaching element with support assembly
WO2012093022 A2 20120712	US20110985589 20110106	SIEMENS AG [DE]; MEDINA PAUL F [US]; OBRECHT JOHN M [US]; STANDISH KEVIN J [US]	F03D1/06; F03D7/02	LOAD MITIGATION DEVICE FOR WIND TURBINE BLADES
WO2012125842 A2 20120920	US201161452891P 20110315	PURDUE RESEARCH FOUNDATION [US]; ADAMS DOUGLAS E [US]; YUTZY JOSEPH [US]; DANA SCOTT R [US]	F03D7/00; F03D1/00; F03D7/02; F03D7/04	LOAD SHAPE CONTROL OF WIND TURBINES
CN102720633 A 20121010	CN20121208257 20120622	CONGGUI LUO	F03D3/06; F03B3/12; F03B11/00; F03B13/00; F03D9/00; F03D11/00	Loading/unloading wing ring, loading/unloading wing ring mechanism, and power generator, water activator and water activating method thereof
CN102725521 A 20121010	WO2011EP50197 20110110; EP20100150465 20100111	ALSTOM WIND S L U [ES]	F03D11/00	Locking device of a wind turbine auxiliary drive
CN202300839U U 20120704	CN20112440934U 20111109	BAODING TIANWEI WIND POWER TECHNOLOGY CO LTD	F03D7/00; F03D11/00	Locking structure of rotor lock of wind generating set
CN202560483U U 20121128	CN20122221060U 20120517	BEIJING NASHENGTONG NEW MATERIAL TECHNOLOGY CO LTD	F03D11/00; B32B33/00	Long fiber reinforced thermoplastic composite blade for wind-driven generator

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CN102675740 A 20120919	CN20121152456 20120517	BEIJING NASHENGTONG NEW MATERIAL TECHNOLOGY CO LTD	C08L23/12; B29C45/00; C08K7/06; C08K7/14; C08K13/04; C08L23/26; C08L25/12; C08L51/00; C08L67/00; C08L75/04; F03D11/00	Long-fiber enhanced thermoplastic composite material vane used for wind energy generator
CN102758730 A 20121031	CN20111105519 20110426	JUNPING SU	F03D9/00; F03B3/12; F03B13/00; F03D3/06	Loose-leaf type vertical shaft fluid generator set
CN102705167 A 20121003	CN20121187432 20120608	BEIJING YINGBOYUAN TECHNOLOGY CO LTD	F03D9/00; F03D3/04; F03D3/06; H02K5/04	Lotus-shaped wind power generation device
CN202560469U U 20121128	CN20122162683U 20120417	HONGYI YU	F03D9/00; F03D3/04; F03D3/06	Louver blade generator
CN202348577U U 20120725	CN20112446107U 20111113	HONGYI YU	F03D9/00; F03D3/04; F03D3/06; F03D11/04	Louver laminated wind driven generator
CN202348571U U 20120725	CN20112446088U 20111113	HAOZHONG XU	F03D9/00; F03D3/00	Louver type wind generator
CN102536642 A 20120704	CN20121095731 20120403	HONGYI YU	F03D3/00; F03D11/04	Louver vertical shaft universal wind motor
CN202560474U U 20121128	CN20122162691U 20120417	HONGYI YU	F03D9/00; F03D3/06	Louvered universal wind driven generator
CN202560473U U 20121128	CN20122162690U 20120417	HONGYI YU	F03D9/00; F03D3/00; F03D3/04; F03D3/06; H02K7/18	Louvered vertical-shaft wind driven generator
KR20120095224 A 20120828	KR20110014762 20110218	SAMSUNG HEAVY IND [KR]	F03D11/00	LOW TEMPERATURE WIND TURBINE AND OPERATION PROCESS FOR THE SAME
KR20120073786 A 20120705	KR20100135653 20101227	POSCO [KR]; RES INST IND SCIENCE & TECH [KR]	F03D11/00; F03D11/04	LOWER STRUCTURE OF OFFSHORE WIND ENERGY PLANT

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CN102536687 A 20120704	CN20121049119 20120229	HARBIN INST OF TECHNOLOGY AT WEIHAI	F03D11/02; F03B13/26; F03B15/00; F03D7/02	Low-flow-rate no-load starting device for fans or tide power generation mechanisms
AU2011207151 A1 20120809	US20100296280P 20100119; WO2011US21765 20110119	WATTENBERG IND LLC	F03D9/00	Low-profile power-generating wind turbine
CN202483798U U 20121010	CN20122062689U 20120222	UNIV NORTH CHINA ELEC POWER	F03D9/00; F03D3/06	Low-resistance vertical-axis draught fan
CN102654101 A 20120905	CN20121160552 20120523	UNIV SHANGHAI	F03D7/06; F16D43/08	Low-speed start and high-speed protection device for vertical shaft type wind driven generator
CN202531810U U 20121114	CN20122180019U 20120425	CHONGQING GEARBOX CO LTD	F16H57/04; F03D11/00; F16N39/02; F16N39/06	Low-temperature lubricating system for offshore high-power wind power gearbox
CN202381670U U 20120815	CN20112537651U 20111220	BEIJING NANKOU RAILWAY TRANSIT MACHINERY CO LTD	F16H57/04; F03D11/00	Lubricating and cooling system for gear box of wind turbines
EP2484939 A1 20120808	DE201120000275U 20110207	BAIER & KOEPPEL GMBH & CO [DE]	F16H57/04; F03D11/00	Lubricating pinion
DE102011077561 A1 20121220	DE20111077561 20110615	ZAHNRADFABRIK FRIEDRICHSHAFEN [DE]	F16N29/00; F03D11/04	Lubricating pump unit for use in wind turbine gearbox, has lubricating oil pump for mounting on gear housing, where oil level sensor and lubricating oil pump are mounted on common mounting element at gear housing
CN202360732U U 20120801	CN20112522996U 20111213	HARBIN DONGAN ENGINE GROUP CO LTD	F16H57/04; F03D11/00	Lubricating system of lubricating oil
CN202300844U U 20120704	CN20112334419U 20110907	JIAHAO NEW ENERGY INVEST CO LTD	F03D9/00; F03D1/06; F03D3/04; F03D3/06; F03D11/00; F16C32/04; H01T19/04	Luminous energy-wind energy gradient power generation system applying magnetic levitation technology

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BRPI1100957 A2 20121225	JP20100179329 20100810	YASKAWA DENKI SEISAKUSHO KK [JP]	F03D1/06; F03D11/04	m?quina el?trica rotativa, sistema de geraÃþo de pot?ncia de vento e m?todo de fabricaÃþo de m?quina el?trica rotativa
EP2525080 A1 20121121	ES20110000558 20110519	GAMESA INNOVATION & TECH SL [ES]	F03D1/00	Machining tool
US2012286520 A1 20121115	EP20100000542 20100120; WO2011EP50262 20110111	BOOTH JAMES KENNETH [DK]	F03D9/00; H01F7/02; H02K21/12	Magnet assembly
CN102741545 A 20121017	WO2010EP69602 20101214; EP20090179056 20091214	LM GLASFIBER AS [DK]	F03D7/02	Magnetic active flap
WO2012116492 A1 20120907	WO2011CN71444 20110302	SHENZHEN WIND WATER WHEEL NEW ENERGY TECHNOLOGY CO LTD [CN]; CHEN HONG [CN]	F03D3/06	MAGNETIC SUSPENSION SHAFT-POSITIONING AEROFOIL-WIND-SAIL WIND GENERATOR
CN102748228 A 20121024	CN20121228258 20120704	SHENZHEN SUOYANG NEW ENERGY CO LTD	F03D9/00; F03D3/06; F03D11/00	Magnetic suspension wind driven generator
CN202360302U U 20120801	CN20112455264U 20111116	YANGJIANG LIQIAO INDUSTRY CO LTD	F03D9/00	Magnetic suspension windmill generator
TWM439163U U 20121011	TW20120209109U 20120514	LIN JI-FEI [TW]	F24F7/02; F03D3/00	Magnetic ventilating power generator
CN102788652 A 20121121	US201113112214 20110520	GEN ELECTRIC [US]	G01L1/12; F03D11/00	Magnetostrictive sensor system and method
EP2510230 A2 20121017	NL20092003925 20091208; WO2010NL50830 20101208	LAGERWEY WIND BV [NL]	F03D11/00; F16C19/38	MAIN BEARING FOR A WIND TURBINE
CN202545132U U 20121121	CN20122145607U 20120409	CSIC CHONGQING SEA LOADING WINDPOWER EQUIPMENT CO LTD	F03D11/00	Main frame of wind driven generator

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CN102678465 A 20120919	CN20121161262 20120522	GUANGDONG MINGYANG WIND POWER INDUSTRY GROUP CO LTD	F03D9/00; F03D11/00; F16H57/02	Main machine of wind generating set
CN202300835U U 20120704	CN20112450845U 20111115	YUNLONG SUN	F03D3/06; F16C3/02	Main shaft of vertical-shaft wind driven generator
CN202354020U U 20120725	CN20112533634U 20111219	RENERGY ELECTRIC SUZHOU CO LTD	H05K7/20; F03D7/00	Main-control box heating system
JP2012154034 A 20120816	JP20110011494 20110124	TOMOE GIKEN KK; TOMOE CORP	E04G23/02; E04G3/28; E04H12/00; F03D11/04	MAINTENANCE METHOD OF TOWERING STRUCTURE
CN102691474 A 20120926	ES20110000346 20110325	GAMESA INNOVATION & TECH SL [ES]	E06C7/16	Maintenance platform
CN202545116U U 20121121	CN2012229919U 20120130	XINTAI FENGLONGWANG EQUIPMENT CO LTD	F03D9/00; F03D7/02; F16D65/14	Manual air brake wind turbine
CN202360643U U 20120801	CN20112445461U 20111111	JIAOZUO BRAKE DEV CO LTD	F16D55/02; F03D7/00	Manual mechanical brake
CN102588212 A 20120718	CN20121077419 20120322	GUODIAN UNITED POWER TECH CO [CN]	F03D7/00	Manual variable-propeller device for wind generating set
CN102672970 A 20120919	CN20111056660 20110309	SANY ELECTRIC CO LTD	B29C70/30; B29C70/54; F03D11/00	Manufacturing method for blade female die gel coat layer, blade female die and blade
US2012315146 A1 20121213	ES20110000762 20110706	GAMESA INNOVATION & TECH SL [ES]	F03D11/00; B23P17/00	MANUFACTURING METHOD OF WIND TURBINE BLADES OF VARIABLE LENGTH
TR201100967 A2 20120822	TR20110000967 20110201	DEDELI DOGALGAZ ELEK K UERETIM VE TICARET ANONIM SIRKETI [TR]	F03D1/06	Manyetik kuvvet destekli rüzgar türbini.
BRPI1101291 A2 20121016	JP20100171781 20100730; JP20100115144 20100519	YASHAWA DENKI KK [JP]	F03D1/06; H02K1/18	máquina elétrica rotativa, método de fabricação de uma máquina elétrica rotativa, sistema gerador de energia eólica

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US2012211987 A1 20120823	US201213465483 20120507; US20070775692 20070710; US20060828957P 20061010; US20060806836P 20060710	ROE JUSTIN C [US]; YOUNT MICHAEL H [US]	F03B13/12; F03D9/00	MARINE ENERGY HYBRID
CN102758741 A 20121031	CN20121282966 20120810	JIANGSU ZHONGYUN WIND POWER SCIENCE & TECHNOLOGY CO LTD	F03D9/00; B63B35/44; F03D11/00	Marine floating type platform narrow pipe wind-concentrating generating system
CN202414127U U 20120905	CN20112372308U 20110928	LI MENGZHU	B63B35/613; F03D9/00	Marine hanging garden and vegetable garden sightseeing boat
SK472011 A3 20121203	SK20110000047 20110602	KALISKY ALEXANDER [SK]	F03B13/00; F03D9/00	Marine hybrid power system
WO2012161500 A2 20121129	KR20110048703 20110523	UNIV KONKUK IND COOP CORP [KR]; KIM KI DU [KR]	E04C5/08; E02D27/52; F03D11/04	MARINE STRUCTURE AND METHOD FOR CONSTRUCTING SAME
CN202483805U U 20121010	CN20112570496U 20111230	JIANGSU DAODA MARINE EQUIPMENT TECHNOLOGY CO LTD	F03D11/00; F16L55/04	Marine wind generation wind vibration preventing device
WO2012138120 A1 20121011	KR20110030641 20110404	DAEWOO E & C CO LTD [KR]; KIM SEONG-WOON [KR]; KIM YOUNG-JIN [KR]; KIM YOU-SEOK [KR]; BAE KYUNG-TAE [KR]	F03D11/04; E02D27/52	MARINE WIND POWER GENERATION FACILITY FOR AUTOMATICALLY CORRECTING TILT DURING OPERATION
DE202011104315U U1 20121120	DE201120104315U 20110815	REPOWER SYSTEMS SE [DE]	F03D1/06; F03D11/00	Markierungslaminat
DE102011007836 B3 20121004	DE201110007836 20110421	REPOWER SYSTEMS SE [DE]	F03D11/00; F03D11/04	Maschinenträger einer Windenergieanlage mit Verkabelung und Verfahren zum Verlegen eines Kabelstrangs an einem Maschinenträger einer Windenergieanlage

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KR20120125031 A 20121114	KR20110043065 20110506		F03D11/00; F03D3/06	Blade arrangement of vertical axis windpower generation
CN202532698U U 20121114	CN20122116912U 20120326	UNIV HENAN TECHNOLOGY	F24H1/20; F03D9/00; F24H9/20	Material-saving water heating system having concentrated wind power supply function and used for office building
WO2012111416 A1 20120823	WO2011JP53294 20110216	YASKAWA DENKI SEISAKUSHO KK [JP]; FUJII JUNJI [JP]; YAMAMOTO HITOSHI [JP]; OOYAMA TETSUO [JP]; TANAKA TAKASHI [JP]	F03D9/00; F03D11/00; H02J3/38; H02M5/293	MATRIX CONVERTER DEVICE FOR WIND-POWER ELECTRICITY-GENERATION, WIND-POWER ELECTRICITY-GENERATION DEVICE, WIND FARM, AND WIND TURBINE MANUFACTURING METHOD
DE102011105737 A1 20121227	DE201110105737 20110624	FREY DIETER [DE]	F03D11/00	Measuring device for use in blade tip of rotor blade of wind energy plant for measuring ice layer thickness on blade, has wireless device transmitting signal obtained from sensors and/or information derived from signal to control device
PT105596 A 20121001	PT20110105596 20110330	VIRGILIO JESUS CARDOSO [PT]	F03D11/02	MECANISMO DE TRANSMISS?O VARI?VEL PARA AEROGERADORES, AEROGERADOR COMPREENDENDO TAL MECANISMO E PROCESSO DE TRANSMISS?O VARI?VEL DE POT?NCIA NO AEROGERADOR
BRPI1100292 A2 20120821	TW20100203506U 20100226	CHAMPION ENGINEERING TECHNOLOGY COMPANY LTD [TW]	F03D5/00	mecanismo de vela eólica planetário
ES2392301 A1 20121207	ES20080003279 20081118	GAMESA INNOVATION & TECH SL [ES]	F03D1/06	MECANISMO Y METODO DE UNION ENTRE INSERTOS.
EP2532886 A1 20121212	ES20100000131 20100204; WO2011ES00017 20110126	GAMESA INNOVATION & TECH SL [ES]	F03D7/02	MECHANICAL BRAKE FOR A WIND TURBINE

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CN202326032U U 20120711	CN20112516082U 20111212	UNIV SHANDONG	F03D9/02	Mechanical coupling type compressed air energy storage micro hybrid wind power generation system
CN202417834U U 20120905	CN20122018219U 20120116	XIANLAN KONG; CHAO ZHANG	F03D9/00; F03B13/00	Mechanical energy generating equipment
WO2012151495 A2 20121108	US201113100492 20110504	HUANG C HENRY [US]; HUANG JANE [US]	F03B13/00; F03B11/00; F03B17/02; F03D11/00; F03G7/00	MECHANICAL ENERGY STORAGE METHOD AND DEVICE
EP2497945 A1 20120912	FR20110052013 20110311	EPSILON COMPOSITE [FR]	F03D1/06; F03D11/00	Mechanical reinforcement for a part made of a composite material, in particular for a large wind-turbine blade
CN202468159U U 20121003	CN20112516195U 20111209	GENXIN GU	F03D7/00	Mechanical-type automatic variable torque blower fan
TW201238482 A 20121001	TW20110110902 20110330	UNIV NAT CHENG KUNG [TW]	A01K61/00; F03D1/06	Mechanism driven by wind power to increase dissolved oxygen in water
WO2012113815 A2 20120830	ES20110030227 20110222	BATZ S COOP [ES]; ENNERA ENERGY AND MOBILITY S L [ES]; PALACIO ARGUEELLES JOSEBA [ES]; CORRAL RODRIGUEZ PEDRO [ES]; AUSIN CALVO JUAN CARLOS [ES]	E04H12/18	MECHANISM FOR RAISING AND LOWERING A TOWER, AND TOWER COMPRISING SUCH A MECHANISM
WO2012097005 A1 20120719	US201161431412P 20110110	FILARDO BENJAMIN PIETRO [US]	H02K7/18; F03D9/00	MECHANISMS FOR CREATING UNDULATING MOTION. SUCH AS FOR PROPULSION. AND FOR HARNESSING THE ENERGY OF MOVING FLUID
CN202370760U U 20120808	CN20112470864U 20111122	UNIV JILIANG CHINA	F03D11/00; B29C70/44; B29C70/54	Medium-sized wind turbine blade middle section and preparation equipment
CN202300838U U 20120704	CN20112425471U 20111101	CHINA NAT PETROLEUM CORP; LIAOHE PETROLEUM EXPLORATION	F03D7/00	Megawatt fan yaw debugging device

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CN202483810U U 20121010	CN20122093499U 20120313	GUODIAN UNITED POWER TECH CO [CN]	F03D11/00	Megawatt level wind wheel blade and shear web thereof
CN102588222 A 20120718	CN20121064912 20120313	GUODIAN UNITED POWER TECH CO [CN]	F03D11/00	Megawatt wind wheel blade and shear web plate thereof and manufacturing method of web plate
KR20120118996 A 20121030	KR20110036692 20110420	KNU INDUSTRY COOPERATION FOUND [KR]	F03D7/00; F03D11/00; H02K7/18	METHOD AND APPARATUS FOR CONTROLLING WIND TURBINE USING WIND SPEED
WO2012089545 A1 20120705	EP20100197350 20101230	LM WIND POWER AS [DK]; SKOVBY CASPER [DK]	G01M5/00; F03D11/00	METHOD AND APPARATUS FOR DETERMINING LOADS OF A WIND TURBINE BLADE
CN102597510 A 20120718	WO2011EP58865 20110530; GB20100009013 20100528	ARTEMIS INTELLIGENT POWER LTD	F03D11/02; F03D9/00; F03D11/00	Method and apparatus for extracting energy from a fluctuating energy flow from a renewable energy source
WO2012117272 A2 20120907	WO2011IB03353 20110120	LANGE WILLIAM [US]	F03B3/04	METHOD AND APPARATUS FOR EXTRACTING FLUID MOTION ENERGY
CN102536635 A 20120704	US20100961722 20101207	GEN ELECTRIC [US]	F03D1/06; F03D11/00	Method and apparatus for mounting a rotor blade on a wind turbine
WO2012089916 A1 20120705	FI20100006376 20101228	EASYWIND OY [FI]; LUHTALA PEKKA [FI]; SIPOLA MARKO [FI]	F03D1/00; F03D11/04	METHOD AND APPARATUS FOR MOUNTING A WIND POWER PLANT IN A HIGH BASE STRUCTURE
EP2516852 A2 20121031	WO2010EP70443 20101221; GB20090022601 20091223; US20090289872P 20091223	VESTAS WIND SYS AS [DK]	F03D7/04	METHOD AND APPARATUS FOR PROTECTING WIND TURBINES FROM DAMAGE
WO2012097814 A1 20120726	GB20110000856 20110118; US201161433707P 20110118	VESTAS WIND SYS AS [DK]; CREABY JUSTIN [US]; BOWYER ROBERT [GB]; SPRUCE CHRIS [GB]	F03D7/00	METHOD AND APPARATUS FOR PROTECTING WIND TURBINES FROM EXTREME EVENTS

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GB2487715 A 20120808	GB20110000856 20110118	VESTAS WIND SYS AS [DK]	F03D7/02	Method and apparatus for protecting wind turbines from extreme wind direction changes
EP2516850 A2 20121031	US20090289865P 20091223; GB20090022592 20091223; WO2010EP70553 20101222	VESTAS WIND SYS AS [DK]	F03D7/02	METHOD AND APPARATUS FOR PROTECTING WIND TURBINES FROM FATIGUE DAMAGE
EP2513473 A2 20121024	US20090286959P 20091216; WO2010US60342 20101214	KAWAS PERCY [US]; KAWAS GULNAR [US]	F03D3/04; F03D3/06; F03D11/00; F03D11/02	METHOD AND APPARATUS FOR WIND ENERGY SYSTEM
WO2012146258 A1 20121101	US201161479854P 20110428; DK20110070267 20110530	VESTAS WIND SYS AS [DK]; BOWYER ROBERT [GB]; WESTERGAARD CARSTEN HEIN [US]; CREABY JUSTIN [US]; SPRUCE CHRIS [GB]	G01N21/53; F03D7/02; F03D7/04; G01P5/26; G01P13/02; G01S17/95	METHOD AND APPARTAUS FOR PROTECTING WIND TURBINES FROM EXTREME EVENTS
WO2012152280 A1 20121115	DK20110070221 20110506; US201161483070P 20110506	VESTAS WIND SYS AS [DK]; SPRUCE CHRIS [GB]; BOWYER ROBERT [GB]; PALMER CHRISTOPHER [GB]	F03D7/04	METHOD AND APPRATATUS FOR PROTECTING WIND TURBINES FROM EXTREME EVENTS
CA2771730 A1 20120921	EP20110158992 20110321	SIEMENS AG [DE]	H02H7/26; F03D7/00; H02J3/38	METHOD AND ARRANGEMENT FOR CONTROLLING AN OPERATION OF AN ELECTRIC ENERGY PRODUCTION FACILITY DURING A DISCONNECTION TO A UTILITY GRID
CA2770668 A1 20120909	EP20110157466 20110309	SIEMENS AG [DE]	G01M1/16; F03D1/06; G01M1/38	METHOD AND ARRANGEMENT FOR DETECTING A BLADE PITCH ANGLE UNBALANCE OF A ROTOR BLADE SYSTEM OF A WIND TURBINE

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WO2012146277 A1 20121101	WO2011EP56658 20110427	SIEMENS AG [DE]; HERNANDEZ MANCHOLA ALVARO JOSE [DE]; AUGSBURGER FRIEDEMANN [DE]	H02J3/18; F03D7/00; H02J3/38	METHOD AND ARRANGEMENT FOR FEEDING ELECTRICAL POWER FROM A WIND TURBINE INTO AN AC VOLTAGE NETWORK
CA2775493 A1 20121103	EP20110164590 20110503	SIEMENS AG [DE]	F03D11/00; F03D1/06; G06F19/00	METHOD AND COMPUTING MODULE FOR DETERMINING PITCH ANGLE ADJUSTMENT SIGNALS OF A WIND TURBINE BASED ON THE MAXIMUM ROTATIONAL SPEED
EP2487367 A2 20120815	DE201110011116 20110212; DE201110122688 20111230	WINDPARKSERVICE GMBH [DE]	F03D11/00	Method and container for performing the method for changing oil in drives and other devices in wind energy assemblies
US2012306204 A1 20121206	US201113578107 20110223; DK20100070069 20100225; US20100308132P 20100225; WO2011EP52678 20110223	VESTAS WIND SYS AS [DK]	H02J3/18	METHOD AND CONTROL ARRANGEMENT FOR CONTROLLING A REACTIVE POWER SOURCE
CN102536670 A 20120704	EP20100194150 20101208	SIEMENS AG [DE]	F03D9/00; F03D7/04; F03D11/00	Method and control system for reducing vibrations of a wind turbine
WO2012136663 A1 20121011	US201113079998 20110405	SIEMENS AG [DE]; EGEDAL PER [DK]; NGUYEN KHANH [US]	F03D7/02	METHOD AND CONTROLLER FOR GENERATING A BLADE PITCH ANGLE CONTROL SIGNAL AND WIND TURBINE COMPRISING THE CONTROLLER
CN102797633 A 20121128	CN20121335801 20120911	SINOVEL WIND GROUP CO LTD [CN]	F03D7/00	Method and device for adjusting angles of blades of wind-driven generator

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EP2531776 A1 20121212	DE201010001438 20100201; WO2010EP51365 20100204	BUSS HELMUT [DE]	F24F3/14; F03D11/00; F24F12/00	METHOD AND DEVICE FOR DEHUMIDIFYING INTERIOR AIR IN OFFSHORE APPLICATIONS
CN102738956 A 20121017	CN20111081341 20110401	QINGSHAN YANG	H02K7/116; F03D9/00; H02K7/18	Method and device for driving blades of clean energy generator
WO2012151436 A1 20121108	US201113333173 20111221; US201161482152P 20110503; US201161526640P 20110823; US201161545448P 20111010	OSCILLA POWER INC [US]; MURPHREE ZACHARY [US]	F03B13/12	METHOD AND DEVICE FOR HARVESTING ENERGY FROM FLUID FLOW
EP2511524 A1 20121017	EP20110003035 20110411	BAUMER INNOTEC AG [CH]	F03D11/00	Method and device for monitoring a rotor blade for a wind energy plant
RO128042 A2 20121228	RO20110000530 20110602	CAZACU MIRCEA DIMITRIE [RO]	F03D3/02; F01D3/02	METHOD AND DEVICE FOR OBTAINING THE MAXIMUM OF ENERGY FROM A FLUID CURRENT
WO2012159718 A2 20121129	DE201110102736 20110520	THYSSENKRUPP SYSTEM ENGINEERING GMBH [DE]; SCHOLZ JOSEF [DE]; PUNDT CHRISTIAN [DE]	F03D1/06; B23B5/16; B23C3/00; B23P9/00; B23P13/00; B23Q9/00; B23Q9/02; B24B7/16; B24B19/14; B24B27/00; B24B49/02	METHOD AND DEVICE FOR PLANE MACHINING A FLANGE OF AN ASSEMBLED ROTOR BLADE IN PARTICULAR FOR A WIND TURBINE
CN102705159 A 20121003	CN20121167898 20120525	BEIJING SANYI AUTOMATION TECHNOLOGY CO LTD	F03D7/00; H02J9/06	Method and device for safely controlling blade withdrawing
WO2012175178 A1 20121227	DE201110105542 20110624	ADENSIS GMBH [DE]; MUELLER TIM [DE]; BECK BERNHARD [DE]	F02C6/16; F03D9/02; F28D20/02	METHOD AND DEVICE FOR STORING ENERGY BY MEANS OF A COMBINED HEAT AND PRESSURE STORAGE DEVICE
CN102650263 A 20120829	EP20110156223 20110228	SIEMENS AG [DE]	F03D7/00; G01R31/34	Method and device for testing a wind turbine assembly

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US2012282092 A1 20121108	US201213460951 20120501; US201161481297P 20110502	SWIST JASON [CA]	F03D1/00	METHOD AND DEVICES FOR COMPACT FORCED VELOCITY TURBINES
CA2764082 A1 20120717	EP20110151130 20110117	SIEMENS AG [DE]	F03D11/00; F03D7/00; G01M99/00	METHOD AND MONITORING APPARATUS FOR AUTOMATED SURVEILLANCE OF A WIND TURBINE AND A METHOD FOR CREATING A LINEAR MODEL
DK201270256 A 20121125	US201113114683 20110524	GEN ELECTRIC [US]	B29C65/48; F03D1/06	METHOD AND SYSTEM FOR BONDING WIND TURBINE BLADES
EP2472104 A1 20120704	US20110984039 20110104	GEN ELECTRIC [US]	F03D7/02; F03D11/00	Method and system for braking in a wind turbine
EP2487365 A1 20120815	KR20110011409 20110209	NAT UNIV CHONBUK IND COOP FOUN [KR]	F03D9/00; F03D7/04	Method and system for controlling wind farm when wind speed varies abruptly.
EP2531724 A2 20121212	EP20100159626 20100412; WO2010EP58333 20100615; EP20100725422 20100615	SIEMENS AG [DE]	F03D11/00; F03D7/04	METHOD AND SYSTEM FOR DETERMINING A MASS CHANGE ON A ROTATING BLADE OF A WIND TURBINE
US2012293109 A1 20121122	US201213468182 20120510; US201161487734P 20110519	GLAZER YARIV [US]	H02J7/00; F03D9/00; H01R43/00; H02J17/00	Method and System for Efficiently Exploiting Renewable Electrical Energy Sources
WO2012145780 A2 20121101	DE201110017564 20110426	AEROSPY SENSE AND AVOID TECHNOLOGY GMBH [AT]; NADERHIRN MICHAEL [AT]; LANGTHALER PETER [AT]	G01M5/00; B64C39/00; F03D11/00; G01C11/00; G01N25/72; G05D1/02; G06T7/00	METHOD AND SYSTEM FOR INSPECTING A SURFACE AREA FOR MATERIAL DEFECTS
CN102539538 A 20120704	US20100868312 20100825	GEN ELECTRIC [US]	G01N29/14; F03D7/02	Method and system for monitoring wind turbine

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CN102654100 A 20120905	US201113038490 20110302	GEN ELECTRIC [US]	F03D7/00	Method and system for operating a wind turbine
US2012299305 A1 20121129	US201113116806 20110526	BROGAN PAUL BRIAN [GB]; NELSON ROBERT J [US]	F03D9/00; G05F1/70	Method and System for Operating and Controlling a Wind Turbine to Prevent Excitation of Subsynchronous Oscillations within the Wind Turbine
DK201270093 A 20120904	US201113039602 20110303	GEN ELECTRIC [US]	F03D11/00	Method and system for securing lightning protection cables in a wind turbine rotor blade
CN102628425 A 20120808	US201113021056 20110204	GEN ELECTRIC [US]	F03D7/02; F03D11/00	Method and system for wind turbine inspection
WO2012119963 A1 20120913	ES20110030300 20110304	INNEO TORRES S L [ES]; FERNANDEZ GOMEZ MIGUEL ANGEL [ES]; JIMENO CHUECA JOSE EMILIO [ES]	E04G3/28; E04G3/30; F03D1/00	METHOD FOR ACCESSING THE OUTER SURFACE OF WIND TURBINE TOWERS AND DEVICE FOR USE WITH THIS METHOD
WO2012129721 A1 20121004	WO2011CN00534 20110329	GEN ELECTRIC [US]; ZHU GUANGYI [CN]; WANG DONG [CN]; ZANG XIAOYUN [CN]; ZHU WEI [CN]	F03D7/04	METHOD FOR ADJUSTING POWER OUTPUT OF WIND TURBINE
EP2526608 A1 20121128	WO2010EP00961 20100216	SIEMENS AG [DE]	H02K1/27; H02K7/18	METHOD FOR ASSEMBLING PART OF A GENERATOR, GENERATOR AND WIND TURBINE
EP2479430 A1 20120725	EP20110382018 20110124	ALSTOM WIND S L U [ES]	F03D11/04; E04H12/08; E04H12/12; F03D1/00	Method for assembling shell segments for forming tower sections of a hybrid wind turbine tower
KR20120072122 A 20120703	KR20100133931 20101223	KOREA INST GEOSCIENCE & MINERA [KR]	F03G7/04; F03B17/00; F03D9/02	Method for compressed air storage and generating electricity
CN102536663 A 20120704	US20100973466 20101220	GEN ELECTRIC [US]	F03D7/04; F03D9/00; F03D11/00	Method for controlling a wind turbine, and wind turbine arrangement

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MA33403 B1 20120703	DE200910026407 20090520; WO2010EP56724 20100517	WOBBEN ALOYS [DE]; MEHDI SALMOUNI ZERHOUNI M	B64F1/20; F03D11/00; F03D11/04	METHOD FOR CONTROLLING AN OBSTRUCTION LIGHT
DE102011000169 A1 20120719	DE201110000169 20110117	BURGHARDT CHRISTOPH [DE]; WEISSINGER KARL-HEINZ [DE]	F03D7/00	Method for controlling generation of sound level in wind turbine installed in village, involves measuring wind speed at measuring point of wind turbine, and guiding measured data to evaluation unit
EP2525082 A1 20121121	EP20110166156 20110516	SIEMENS AG [DE]	F03D7/02; F03D7/04	Method for controlling positioning and run-up procedures in wind power plants
GR20110100031 A 20120903	GR20110100031 20110126	BOURLIS DIMITRIOS CHRISTOU [GR]	F03D7/04	METHOD FOR CONTROLLING THE POWER FOR VARIABLE-SPEED WIND GENERATORS HAVING ROTOR BLEDES AT A CONSTANT PITCH ANGLE, BASED ON THE EFFECTIVE WIND SPEED
CN102767478 A 20121107	CN20111125925 20110506	YALI SONG	F03D9/00; F01D15/10; F04B35/02	Method for converting wind energy into electric energy by wind air compressors
DE102011007434 A1 20121018	DE20111007434 20110414	SUZLON ENERGY GMBH [DE]	G06F17/50; F03D7/00; G06F19/00	Method for creating software-simulation module for simulating correlation between input and output variables and/or behavior of wind energy plant in energy supply network, involves forming model from transfer and combination functions
PL396179 A1 20120702	PL20110396179 20110902	AKAD GORNICZO HUTNICZA [PL]	G01M13/02; F03D11/00	Method for detecting planetary gear damage in wind turbines
CN102777331 A 20121114	CN20121277450 20120806	GUODIAN UNITED POWER TECH CO [CN]	F03D11/00	Method for determining diameter of wind wheels of wind driven generator set

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US2012304588 A1 20121206	SE20100000122 20100209; WO2011SE00021 20110207	VON AHN PATRIK [SE]	E04H12/00	Method for Erecting a Wind Turbine Tower
DE102010052595 A1 20120705	DE201010052595 20101125	POWERWIND GMBH [DE]	F03D11/04	Method for establishing wind turbine, involves limiting degree of freedom of horizontal movement of powertrain by guide track in direction of installation position during lowering movement of powertrain
CN102562470 A 20120711	CN20111462490 20111228	XIANGQIAN ZHANG	F03D9/00; H02K7/18	Method for generating electric power from wind power source
DE102011100905 A1 20121115	DE201110100905 20110509	MORGENSTERN INGO [DE]	F03D9/02	Method for handling e.g. optimization of problems of wind turbine, involves altering energy landscape of optimization problem by barriers, and calculating probabilities from probability distribution of profits or losses of portfolio
WO2012146233 A1 20121101	DE201110018840 20110427	BYCHKOV GMBH [DE]; BYCHKOV YURY [RU]	F03D9/00; F03B1/00	METHOD FOR HARVESTING WIND ENERGY AND CONVERTING SAME INTO DIFFERENT FORMS OF ENERGY, AND WIND TURBINE FOR CARRYING OUT SAID METHOD
EG25961 A 20121113	WO2008EP02206 20080319; EP20070405087 20070319	SMS CONCAST AG [CH]	G01N21/88	Method for identifying surface characteristics of metallurgical products, especially continuously cast and rolled products, and a device for carrying out said method
WO2012090009 A1 20120705	GE2010AP01204 20101230	ABRAMIAN VITALI; ABRAMIAN RONALD [GE]	F03B3/02; F03B3/12; F03D3/00	METHOD FOR IMPARTING MOTION TO A ROTOR, AND ROTOR

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AU2010338383 A1 20120712	US20090284315P 20091216; DK20090070277 20091216; WO2010EP69921 20101216	VESTAS WIND SYS AS [DK]; COMMW SCIENT IND RES ORG	B29C65/00; C08J5/12; C08J7/12	Method for joining fibre-containing composite materials
CA2767022 A1 20120808	EP20110153696 20110208	SIEMENS AG [DE]	F16N29/02; F03D11/00; F16N25/00	METHOD FOR LUBRICATING AT LEAST ONE BLADE PITCH BEARING OF A WIND TURBINE
CN102606396 A 20120725	CN20121105516 20120411	GUODIAN UNITED POWER TECH CO [CN]	F03D7/00	Method for managing and optimally controlling yawing sectors among multiple units in wind farm and system of method
KR20120111143 A 20121010	KR20110029480 20110331	KOREA ELECTRONICS TECHNOLOGY [KR]; UNISON CO LTD [KR]	F03D7/00; F03D11/00; H02J3/00	METHOD FOR MANAGING WIND POWER CONTROL SYSTEM FOR HIGH AVAILABILITY IN WIND FARM
US2012219424 A1 20120830	US201113036853 20110228	GEN ELECTRIC [US]	F03D11/00; B05D3/10	METHOD FOR MANUFACTURE OF AN INFUSED SPAR CAP USING A LOW VISCOSITY MATRIX MATERIAL
US2012263600 A1 20121018	EP20110162406 20110414	GROVE-NIELSEN ERIK [DK]	F03D1/06; B29C45/02; B32B5/08	METHOD FOR MANUFACTURING A WORK PIECE BY VACUUM ASSISTED RESIN TRANSFER MOULDING
CN102562477 A 20120711	CN20101600438 20101222	SHANGHAI AEOLON WIND ENERGY TECHNOLOGY DEV CO LTD	F03D11/00	Method for manufacturing oblique corners of core materials of wind power generation vanes
KR20120108780 A 20121005	KR20110027092 20110325	MOKPO NAT UNIV IND ACAD COOP [KR]	F03D11/00; G01M9/00	METHOD FOR MANUFACTURING OF WIND POWER TURBINE WITH SMALL HORIZONTAL AXIS THROUGH DEVELOPMENT OF STANDARD PROCESS
CN102654103 A 20120905	CN20111094514 20110411	ZHENXIN SHEN	F03D9/00; F24J2/48	Method for manufacturing rod-shaped hollow-tube solar power generation system

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WO2012113966 A1 20120830	ES20110030249 20110225	GARCIA CASTRO FRANCISCO JAVIER [ES]; MANSO GARCIA JUAN JOSE [ES]	F03D1/06; B29C70/38; B29C70/46	METHOD FOR MANUFACTURING WIND TURBINE BLADES, BLADES FOR PROPELLERS, WINGS OR SIMILAR STRUCTURES, AND STRUCTURE IN THE SHAPE OF A BLADE PRODUCED BY MEANS OF SAID METHOD
US2012263592 A1 20121018	EP20110162814 20110418	LIND SOEREN OEMANN [DK]	F03D11/00; G01P13/00	Method for measuring the wind direction in the wake of a wind turbine rotor
CN102705168 A 20121003	CN20121198378 20120616	WUXI TONGCHUN NEW ENERGY TECH	F03D9/00; E21B43/20	Method for mining shale gas energy in hydrofracturing mode for power supply and irrigation of wind power generation system
EP2479425 A2 20120725	DE201010053523 20101204	NORDEX ENERGY GMBH [DE]	F03D7/00; F03D11/00	Method for monitoring the static and/or dynamic stability of a wind energy assembly
EP2508749 A1 20121010	EP20110160956 20110404	SIEMENS AG [DE]	F03D1/00; F03D9/02	Method for mounting an electric machine
CN102562489 A 20120711	CN20101601791 20101222	REN WEI; ZIFANG REN; WANG ZHONG; WANG XIAOJING; WENJUN HUANG; YEJUN XUE	F03D11/04; B66C23/00	Method for mounting offshore wind turbine
DE102011011116 A1 20120816	DE201110011116 20110212	WINDPARKSERVICE GMBH [DE]	F03D11/00; F03D11/04	Method for oil exchange in gearboxes and other devices in wind energy plants, involves arranging tanks for waste oil, flushing oil and fresh oil, pumps, controlling unit and energy supplying unit in transport unit
CN102562446 A 20120711	DE201010054013 20101210	NORDEX ENERGY GMBH [DE]	F03D7/00	Method for operating a pitch-controlled wind turbine
US2012301295 A1 20121129	DE201010002203 20100222; WO2011EP00292 20110125	REPOWER SYSTEMS SE [DE]	F03D7/04; F03D1/00	METHOD FOR OPERATING A WIND ENERGY INSTALLATION

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AU2012203674 A1 20120712	AU20120203674 20120625; AU20090201116 20090320	WOBBEN ALOYS [DE]	F03D9/00; F03D7/02; F03D7/04; H02P9/00	Method for operating a wind energy plant
WO2012168089 A1 20121213	DE201110077129 20110607	WOBBEN PROPERTIES GMBH [DE]; JEPSEN TORSTEN [DE]	F03D7/02; F03D11/00	METHOD FOR OPERATING A WIND ENERGY PLANT IN ICING CONDITIONS
EP2535568 A1 20121219	EP20070700184 20070104; DE200610001613 20060111	REPOWER SYSTEMS AG [DE]	F03D7/02; F03D7/04	Method for operating a wind farm and wind farm
EP2481919 A1 20120801	EP20110152550 20110128	NORDEX ENERGY GMBH [DE]	F03D7/02; F03D7/04; F03D11/00; G01S7/41	Method for operating a wind farm, assembly and system
WO2012107195 A1 20120816	DE201110003974 20110211	REPOWER SYSTEMS SE [DE]; SIEVERS OLIVER [DE]; WARFEN KARSTEN [DE]	F03D7/02; F03D7/04	METHOD FOR OPERATING A WIND POWER INSTALLATION AND WIND POWER INSTALLATION
EP2525083 A2 20121121	DE201110101897 20110518	NORDEX ENERGY GMBH [DE]	F03D7/02	Method for operating a wind turbine
KR20120125198 A 20121114	KR20120048261 20120507		F03D11/00; F03D11/04; H02K9/00	COOLING ARRANGEMENT OF A WIND TURBINE
CN102619689 A 20120801	EP20110152546 20110128	NORDEX ENERGY GMBH [DE]	F03D7/04; F03D9/00; G01S13/91; G01S13/95	Method for operating a wind turbine, arrangement and system
EP2535571 A1 20121219	FR20110001879 20110617	IFP ENERGIES NOUVELLES [FR]	F03D7/02; F03D7/04	Method for optimising the power recovered by wind turbine by reducing the mechanical impact on the structure.

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WO2012172132 A1 20121220	ES20110000674 20110613	INVEST Y DESARROLLOS EOLICOS S L [ES]; MONTEJO YUSTE ROBERTO [ES]; AMEZQUETA PUEYO CARLOS [ES]; LAHUERTA CALAHORRA FRANCISCO [ES]; NUIN MARTINEZ DE LAGOS INAKI [ES]; GUELBENZU BLASCO JAVIER [ES]; SANZ MILLAN MERCEDES [ES]; DEL RIO CARBAJO MARCOS [ES]	F03D1/06	METHOD FOR PLACING INSERTS IN PARTS MADE FROM COMPOSITE MATERIAL
WO2012109461 A1 20120816	US201113024508 20110210	INVENTUS HOLDINGS LLC [US]; LOHAN MARTIN E [US]; NALDER JOSEPH W [US]	F03D11/00	METHOD FOR POSITIONING A HYDRAULIC ACCUMULATOR IN A HUB OF A WIND- POWERED ELECTRIC GENERATOR
CN102708266 A 20121003	CN20121193816 20120612	INST ENG THERMOPHYSICS CAS	G06F17/50; F03D1/06	Method for predicting and calculating limit load of horizontal-axis wind turbine blade
KR101177435B B1 20120827	KR20120022817 20120306	NAT UNIV CHONBUK IND COOP FOUN [KR]	F03D7/00; F03D11/00; G06F19/00	METHOD FOR PREDICTING WIND RESOURCE OF WIND FARM
WO2012153063 A1 20121115	FR20110054048 20110511	ARKEMA FRANCE [FR]; HAVEL MICKAEL [FR]; GAILLARD PATRICE [FR]	C08J5/00; B82Y30/00; C08J3/22; C08J5/24; C09D5/00; F03D11/00; G01S7/36; H01B1/24	METHOD FOR PRODUCING A MATERIAL ABSORBING ELECTROMAGNETIC WAVE RADIATION, COMPRISING CARBON NANOPARTICLES, AND MATERIAL OBTAINED BY SAID METHOD
WO2012113412 A1 20120830	EA20110000270 20110225	KALININ VSEVOLOD DMITRIEVICH [RU]; KALININA LIUDMILA BORISOVNA [RU]; KRIULIN URIY VALENTINOVICH [RU]	F03D1/02; F03D1/04; F03D3/00; F03D3/04; F03G7/10	METHOD FOR PRODUCING ELECTRIC POWER AND AERODYNAMIC POWER STATION FOR CARRYING OUT SAID METHOD

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AU2011217219 A1 20120913	DE201010002131 20100218; WO2011EP52422 20110218	WOBBEN PROPERTIES GMBH [DE]	B29C44/12; B29C45/14; B29C70/44; B29C70/54	Method for producing wind power plant rotor blades and a wind power plant rotor blade
FR2970748 A1 20120727	FR20110050437 20110120	NASS & WIND IND [FR]	F03D1/00; B63B21/00; B63C1/00; F03D11/00	Method for realizing maintenance operations i.e. replacement of heavier parts, of floating wind turbine device of off-shore wind energy production system, involves positioning floating wind turbine device on maintenance device
KR20120111139 A 20121010	KR20110029471 20110331	KOREA ELECTRONICS TECHNOLOGY [KR]; UNISON CO LTD [KR]	F03D7/00; F03D11/00; H02J3/00	METHOD FOR RECOVERING WIND POWER GENERATION CONTROL SYSTEM FAULT
DK201270098 A 20120909	US201113042592 20110308	GEN ELECTRIC [US]	F03D1/06	Method for repairing a wind turbine blade
DE102011018253 A1 20121025	DE20111018253 20110420	KOEHLER VOLKER [DE]; WIBEL CARSTEN-SOEHNKE [DE]	F03D7/00; F03D11/00	Method for replacing normal power supply with emergency power supply of offshore wind turbine, to supply power to ships, involves forming electrical line connection between replacement power supply and wind turbine power supply
RO127975 A0 20121129	RO20120000417 20120611	UNIV TRANSILVANIA DIN BRASOV [RO]	F03D7/00	METHOD FOR SENSORLESS REGULATION OF SPEED AND POWER OF WIND GENERATORS WITH LOW POWER PERMANENT MAGNETS
WO2012159775 A2 20121129	DE201110102316 20110525	HEIJMANS OEVERMANN GMBH [DE]; WAGNER PHILIPP [DE]	F03D1/00	METHOD FOR SETTING UP, MAINTAINING AND DISASSEMBLING A WIND TURBINE

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AU2011244512 A1 20121101	DE201110007085 20110408; DE201010015595 20100419; WO2011EP55737 20110412	WOBBEN PROPERTIES GMBH [DE]	F03D7/04; F03D11/00	Method for the operation of a wind turbine
CA2764842 A1 20120724	EP20110151847 20110124	SIEMENS AG [DE]	F03D7/00; F03D11/00; F16F15/00	METHOD FOR THE OSCILLATION DAMPING OF A DRIVE TRAIN IN A WIND TURBINE, WIND TURBINE AND USE OF A BRAKING DEVICE
EP2525079 A1 20121121	EP20110166239 20110516	SIEMENS AG [DE]	F03D1/00	Method for the production of wind turbine tower segments and wind turbine tower
DE102011106145 B3 20120705	DE201110106145 20110630	ARENS STEPHAN [DE]	F03D11/04	Method for torque and energy transmission for horizontal wind-power plant, involves moving traction cables or draw bars with energy transfer in pulling direction or against pulling direction without torque transmission
CH705024 A1 20121130	CH20110000854 20110518; CH20110000926 20110529	SEILER HANS JOERG [CH]	F03D9/02; B60K16/00; B60L8/00	Method for using wind to produce energy and/or current for charging battery of e.g. vehicle, involves providing wind receiving devices and aggregates of vehicle in forward movement to produce wind, and converting energy of wind into power
CA2764789 A1 20120728	EP20110152475 20110128	LM WIND POWER AS [DK]	F03D11/00; B66F7/02; B66F11/00; E04G3/00; E04H12/00	METHOD OF ATTACHING A REPAIR PLATFORM TO A WIND TURBINE
EP2520794 A1 20121107	EP20110164587 20110503	SIEMENS AG [DE]	F03D7/04	Method of checking a wind turbine in a wind farm for a yaw misalignment, method of monitoring a wind turbine in a wind farm and monitoring apparatus

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US2012211985 A1 20120823	US201213463954 20120504; US20070929273 20071030	GEN ELECTRIC [US]	H02P9/00	METHOD OF CONTROLLING A WIND ENERGY SYSTEM AND WIND SPEED SENSOR FREE WIND ENERGY SYSTEM
GB2487072 A 20120711	GB20110000182 20110106	VESTAS WIND SYS AS [DK]	G01M5/00; B60P3/40; B65D79/02; B65D90/48; F03D11/00; G01D1/18; G01D3/08; G01D3/10; G01M99/00	Method of detecting damage to a wind turbine component during transport
EP2533969 A2 20121219	GB20100002249 20100210; WO2011GB50203 20110207	WALTERS ALBERT EDWARD DAVID [GB]	B29C70/84; B29C65/00; B29C65/42; F03D1/06	METHOD OF FORMING AN AERODYNAMIC ARRANGEMENT BY JOINING OF SEGMENTS
EP2535171 A1 20121219	EP20110170311 20110617	LM WIND POWER AS [DK]	B29C70/44; B29C70/48; B29C70/54	Method of manufacturing an oblong shell part and such shell part
NZ592931 A 20120831	EP20100163393 20100520	SIEMENS AG [DE]	B29C41/00; B29C33/42; B29C33/68; B29C63/18	METHOD OF MOULDING A WIND TURBINE BLADE
CA2766316 A1 20120801	EP20110152904 20110201	SIEMENS AG [DE]	B29C70/30; B29D22/00; F03D1/06; F03D3/06	METHOD OF MOULDING A WIND-TURBINE BLADE
EP2516851 A1 20121031	DK20090070229 20091125; WO2010DK50318 20101124	HYDRATECH IND WIND POWER AS [DK]	F03D7/02; F15B1/00	METHOD OF MOUNTING A HYDRAULIC PITCH CONTROL SYSTEM IN A WIND TURBINE HUB
CN102536650 A 20120704	DE201010054014 20101210	NORDEX ENERGY GMBH [DE]	F03D7/00	Method of operating a pitch controlled wind turbine
TW201231805 A 20120801	DE201010052565 20101125	WOBBEN ALOYS [DE]	F03D7/00; G01L25/00	Method of operating a wind power installation

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CN102782318 A 20121114	WO2011EP51482 20110202; DK20100000099 20100205; US20100301886P 20100205	VESTAS WIND SYS AS [DK]	F03D7/04; F03D1/00	Method of operating a wind power plant
CA2773335 A1 20121004	EP20110160969 20110404	SIEMENS AG [DE]	F03D9/00	METHOD OF OPTIMISING A WIND PARK CONSTRUCTION
US2012257984 A1 20121011	EP20090180341 20091222; WO2010EP70510 20101222	LM GLASFIBER AS [DK]	B29C70/36; F03D1/06	METHOD OF PRODUCING A COMPOSITE SHELL STRUCTURE
CN102534148 A 20120704	US20100969803 20101216	GEN ELECTRIC [US]	C21D5/00; C21D1/18; C22C37/10; F03D11/00; F16C3/02	Method of producing large components form austempered ductile iron alloys
TW201233898 A 20120816	DE201010041940 20101004	WOBBEN ALOYS [DE]	F03D11/04	Method of replacing a transformer of a wind power installation
EG25811 A 20120815	WO2007SE50683 20070927; SE20070000701 20070319	ERICSSON TELEFON AB L M [SE]	H04L12/56; H04W48/08	Method of using an uplink grant as trigger of first or second type of cqi report
WO2012158131 A1 20121122	UA20110006319 20110519	MITA TEKNIK AS [DK]; MYKHAYLYSHYN VIKTOR [UA]	F03D7/02; F03D7/04	METHOD OF WIND TURBINE YAW ANGLE CONTROL AND WIND TURBINE
EP2527648 A1 20121128	EP20110167444 20110525	SIEMENS AG [DE]	F03D11/00	Method to determine a site for a wind turbine
EP2527649 A1 20121128	EP20110167447 20110525	SIEMENS AG [DE]	F03D11/00	Method to inspect components of a wind turbine
EP2518309 A2 20121031	US201113097367 20110429	GEN ELECTRIC [US]	F03D7/04	Method, system and computer program product for dynamic rule engine for a wind turbine farm

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CN102797631 A 20121128	CN20121306870 20120824	GUODIAN UNITED POWER TECH CO [CN]	F03D7/00	Method, system and device for carrying out online self-correcting on optimal gain of wind generating set
CN102767473 A 20121107	CN20121270628 20120731	GUODIAN UNITED POWER TECH CO [CN]	F03D7/00; G06F17/50	Method, system and device for on-line computation of optimal gain of wind generation set control strategy
CN102748216 A 20121024	CN20121245044 20120713	GUODIAN UNITED POWER TECH CO [CN]	F03D7/00; F03D9/00	Method, system and device for regulating active power of wind power generator unit
CN102767476 A 20121107	US201113100466 20110504	GEN ELECTRIC [US]	F03D7/04	Methods and apparatus for controlling wind turbine thrust
WO2012097076 A2 20120719	US201161431696P 20110111	OPHIR CORP [US]; O'BRIEN MARTIN [US]; CALDWELL LOREN M [US]; ACOTT PHILLIP E [US]; SPAETH LISA G [US]	G01W1/00; F03D7/00; G01P5/26; G01S17/95	METHODS AND APPARATUS FOR MONITORING COMPLEX FLOW FIELDS FOR WIND TURBINE APPLICATIONS
WO2012130245 A2 20121004	US201161469433P 20110330; DK20110070164 20110406	VESTAS WIND SYS AS [DK]; DONESCU VICTOR [US]; ANDERSEN JACOB KAROTTKI FALK [DK]; HANSEN ERLAND FALK [DK]	F03D11/00; F03D1/00; F03D11/04	METHODS AND APPARATUS FOR SERVICING WIND TURBINE COMPONENTS THROUGH A LOWER PORTION OF A TOWER
EP2500562 A2 20120919	ES20110000307 20110317	GAMESA INNOVATION & TECH SL [ES]	F03D7/04; F03D7/02	Methods and systems for alleviating the loads generated in wind turbines by wind asymmetries
CA2764612 A1 20120724	EP20110151812 20110124	SIEMENS AG [DE]	F03D7/02; F16F15/00	METHODS AND SYSTEMS FOR DETERMINING A PITCH ANGLE OFFSET SIGNAL AND FOR CONTROLLING A ROTOR FREQUENCY OF A ROTOR OF A WIND TURBINE FOR SPEED AVOIDANCE CONTROL

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WO2012119061 A1 20120907	US201113039846 20110303	INVENTUS HOLDINGS LLC [US]; CREAGH ALEXANDER [CA]; CARLSON DUSTIN [US]; MCINTYRE JEFFREY [US]; TOMPKINS TIMOTHY [US]; HALL TIM [US]; DOHRMANN CRAIG [US]; SIMMONS TRAVIS [US]; HAXTON BRENT [US]; GONZALEZ MIGUEL [US]; CULVER VAN R [US]; QUIROGA GEORGE [US]	F03D11/00; F03D7/04	METHODS FOR PREDICTING THE FORMATION OF WIND TURBINE BLADE ICE
CN102536638 A 20120704	US20100966219 20101213	GEN ELECTRIC [US]	F03D1/06	Methods of manufacturing rotor blades for a wind turbine
EP2505824 A2 20121003	DK20110070151 20110330	VESTAS WIND SYS AS [DK]	F03D1/06	Methods of manufacturing wind turbine blades
WO2012116428 A1 20120907	US201161447979P 20110301; US201113157689 20110610	PECK GORDON [CA]	H02J4/00; E04H12/00; F03D9/00; F03D11/04; H01L31/042; H02J3/38; H02J13/00	METHODS, SYSTEMS, AND APPARATUS FOR NATURAL POWER COLLECTION AND DISTRIBUTION
BRPI1101753 A2 20120918	EP20100004076 20100416	SIEMENS AG [DE]	F03D1/06; F03D11/00	método para fabricação de uma pá de rotor para turbina eólica e pá de rotor para turbina eólica
ES2392226 A1 20121205	ES20090002345 20091216	GAMESA INNOVATION & TECH SL [ES]	F03D7/04; G05D17/02	METODOS DE CONTROL DE AEROGENERADORES PARA MEJORAR LA PRODUCCION DE ENERGIA RECUPERANDO PERDIDAS DE ENERGIA.
CN102797640 A 20121128	CN20121308832 20120827	RENZUO XU	F03D9/02; F03B13/06; F03B13/26; F03D11/00	Micro energy field wind power generating system and power generating method
CN102705179 A 20121003	CN20121190347 20120608	SINOVEL WIND GROUP JIANGSU CO LTD	F03D11/00; B01D50/00	Micro positive pressure generating device

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CN202468166U U 20121003	CN20122020034U 20120117	SHANGHAI MEIFUJI BUILDING ENGINEERING CO LTD	F03D9/00	Micro wind tunnel generators used in building roof truss
CN202348586U U 20120725	CN20112508461U 20111208	UNIV ZHEJIANG OCEAN	F03D9/02; F03D3/06	Micro-energy cylindrical power-generating device for tunnels
CN102678447 A 20120919	CN20121170986 20120523	UNIV ZHEJIANG GONGSHANG	F03D3/06; F03D9/00	Micro-resistance tuning-free wind power device
CN102678468 A 20120919	CN20121170988 20120523	UNIV ZHEJIANG GONGSHANG	F03D9/00; F03D7/00; F03D11/00	Micro-resistance windmill power generating device
CN202560465U U 20121128	CN20112413473U 20111026	SHANXI HENGTE TECHNOLOGY CO LTD	F03D9/00; F03D1/04; F03D7/04	Mine waste wind power generation device
RO127976 A2 20121129	RO20110000105 20110207	UNIV TEHNICA DIN CLUJ NAPOCA [RO]	F03D9/00	MINI HYDRO-WIND POWER STATION
CN202474965U U 20121003	CN20122111871U 20120323	SHENYANG SHIJIE ELECTRICAL APPLIANCE CO LTD	H02J7/00; F03D9/00; F24H7/02; F24H9/02	Mini power grid system
CN102801355 A 20121128	CN20121303498 20120823	BEIJING INST TECHNOLOGY	H02N2/18; F03D9/00	Miniature wind-power piezoelectric generator
CN102767482 A 20121107	CN20121224017 20120629	FANG HUANG	F03D9/00; F03D1/04; F03D7/04	Mini-type wind-driven generator
TR201207591U U 20120822	TR20120007591U 20120629	SENOL GUEVENC [TR]	F03G6/00; F03D1/00; F03G7/00	Mobil elektrik üretim ünitesi
TWM439711U U 20121021	TW20120207217U 20120418	GREAT PHOTOELECTRIC CORP [TW]; GREAT PHOTOELECTRIC KUNSHAN CORP [CN]	F03D1/00	Mobile wind turbine structure
CN102705169 A 20121003	CN20121213575 20120626	UNIV HEHAI	F03D9/00; F03D7/00	Model machine for monitoring and controlling operation state of wind power generation
CN102588211 A 20120718	CN20121050418 20120229	SHENYANG HUAREN WIND POWER TECHNOLOGY CO LTD	F03D7/00	Model prediction control method and model prediction control system for all working conditions of wind generating set

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CN102795114 A 20121128	CN20121271717 20120802	RUNZHU XU	B60L8/00; B60K16/00; B60K25/10; F03D9/00; F03G7/08	Modern wooden ox vehicle
US2012193923 A1 20120802	US201213448802 20120417; US201113292786 20111109; US20100861263 20100823; US20080332313 20081210; US20070012759P 20071210	SQUARED WIND INC V [US]; FREDA ROBERT M [US]	F03D9/00	MODULAR ARRAY WIND ENERGY NOZZLE WITH INCREASED THROUGHPUT
CN102562438 A 20120711	US20100972590 20101220	GEN ELECTRIC [US]	F03D1/06; F03D1/00; F03D11/04	Modular rotor blade and method for mounting a wind turbine
CA2764484 A1 20120719	US201113009326 20110119	GEN ELECTRIC [US]	E04H12/00; E04H12/34; F03D11/04	MODULAR TOWER AND METHODS OF ASSEMBLING SAME
KR20120073785 A 20120705	KR20100135652 20101227	POSCO [KR]; RES INST IND SCIENCE & TECH [KR]	F03D11/04; E04F15/00	MODULAR TYPE WIND POWER GENERATION TOWER
DK201170696 A 20121127	DK20110070696 20111212	VESTAS WIND SYS AS [DK]	F03D1/06	MODULAR WIND TURBINE BLADE HAVING A SEGMENTED TIP
GB2488099 A 20120822	GB20110001582 20110131	VESTAS WIND SYS AS [DK]	F03D1/06; B25B11/02; B29C65/00; B29C65/48	Modular wind turbine blade with both spar and foil sections forming aerodynamic profile
GB2491853 A 20121219	GB20110009956 20110613	RODWAY GILES HENRY [GB]	F03D11/04	Modular wind turbine system with repositionable turbines

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WO2012097394 A1 20120726	AT20110000088 20110121	HEXCEL HOLDING GMBH [AT]; HEXCEL CORP [US]; MOELLER LARSEN FLEMMING [DK]; MOSER JOHANNES [AT]; BOURSIER BRUNO SERGE [US]	F03D1/06; B29C70/46; B29C70/86	MODULE FOR HOLDING AT LEAST ONE BUSHING
TR201112863U U 20120822	TR20110012863U 20111223	SOEZER SAMI MUTLU [TR]	F03D11/00	Modüler dikey eksenli rüzgar enerjisi türbini
ES2388823 A1 20121018	ES20100001244 20100928	TORRES MARTINEZ M [ES]	B29C33/30; B29C33/28; B29C33/50; F03D1/06	MOLDE FLEXIBLE PARA FABRICACION DE PIEZAS CON MATERIALES COMPUESTOS.
WO2012126479 A2 20120927	US201161466563P 20110323; DK20110070143 20110325	VESTAS WIND SYS AS [DK]; RAJASINGAM DAMIEN [GB]	F03D1/06; B29C33/26	MOLDING APPARATUS FOR MAKING A WIND TURBINE BLADE AND METHOD OF MAKING SAME
CN202468709U U 20121003	CN20112553981U 20111227	BEIJING NEW XINGSHENG CASTING CO LTD	F16C33/00; F03D11/00	Molding follow-up disc installed on wind turbine generating system
CN202471643U U 20121003	CN20112570207U 20111231	AVIC HUITENG WINDPOWER EQUIPMENT CO LTD	G01N27/20; F03D11/00	Monitoring device for cracks on surface of wind-wheel blade
CN202545140U U 20121121	CN20122194864U 20120502	GUODIAN UNITED POWER TECH CO [CN]	F03D11/00; G06F3/041	Monitoring device of offshore wind-driven power generator unit
CN102748219 A 20121024	US201113091987 20110421	HONEYWELL INT INC	F03D7/02	Monitoring wind turbine performance
EP2529110 A1 20121205	IT2010TO00059 20100129; WO2011IB00092 20110124	TREVI ENERGY S P A [IT]	F03D11/00	MONOBEARING EOLIC TURBINE WITH RADIAL FLOW ELECTRIC GENERATOR AND EXTERNAL STATOR
CN102582818 A 20120718	CN20121058218 20120307	UNIV BEIHANG	B64B1/50; F03D9/00	Mooring ball mounted wind power generating device
CN102777318 A 20121114	CN20111121277 20110511	XUJI GROUP CO LTD; XUJI ELECTRIC CO LTD	F03D7/00	Motion control method of megawatt wind generating set feather system

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CN102619888 A 20120801	CN20111034133 20110131	SINOVEL WIND GROUP CO LTD [CN]	F16D1/033; F03D9/00; F03D11/00; F16D1/04	Motive power transmission connecting flange and wind power generator set
CN202333968U U 20120711	CN20112490832U 20111201	ZHANGZHOU CHANGTAI NEW QILIN MACHINE CO LTD	H02J9/06; E06B9/68; F03D9/00; H02J7/00	Motor-driven door opener system powered by various new type energy
WO2012093136 A2 20120712	EP20110150159 20110105	LM WIND POWER AS [DK]; BAEK PETER [DK]	B29C33/30; B29D99/00; F03D1/06	MOULD AND METHOD FOR MANUFACTURING SHELL PARTS
EP2474735 A2 20120711	US20100420940P 20101208; GB20100020828 20101208	VESTAS WIND SYS AS [DK]	F03D11/00; F03D1/00; F03D1/06; F03D7/02	Mounting arrangement for pitch gear
CN102777335 A 20121114	CN20121256502 20120723	UNIV SHANGHAI JIAOTONG	F03D11/04	Mounting device for offshore wind generating set based on six-dimensional intelligent mechanical legs
CN102787988 A 20121121	CN20121232524 20120705	GUANGDONG MINGYANG WIND POWER INDUSTRY GROUP CO LTD	F03D11/04	Mounting method of offshore wind generating set
EP2484896 A1 20120808	EP20110153351 20110204	LM WIND POWER AS [DK]	F03D1/06	Mounting of vortex generator devices on a wind turbine rotorblade by means of mounting plate
CN202348593U U 20120725	CN20112522044U 20111214	DENGRONG ZHOU; JIAN ZHOU	F03D11/04	Mounting structure for turbine turbofan
CN102616169 A 20120801	CN20121109490 20120416	DEHENG WANG	B60P3/00; F03D3/00; F03D9/00; F03G6/00	Movable type power system of renewable energy
CN202348578U U 20120725	CN20112480212U 20111128	BINZHOU JINYI EQUIPMENT CO LTD	F03D9/00; H02J7/00; H02N6/00	Movable wind and solar combined power generation device
CN202370755U U 20120808	CN20112549678U 20111226	TIANJIN RUITUO ELECTRONICS TECHNOLOGY DEV CO LTD	F03D9/00; F03D11/04; H02N6/00	Movable wind and solar hybrid power supply system
CN102691617 A 20120926	CN20111214634 20110729; CN20121181520 20120605	BEIYUE LIANG	F03D3/00; F03D3/06	Movable wing-type lifting high-power vertical axis wind turbine

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CN102767304 A 20121107	CN20111112492 20110503	SHANGHAI HWAYE ENVIRONMENTAL PROT PTY LTD	E04H14/00; C02F3/12; C02F3/30; E04D13/18; E04H1/12; F03D9/00	Movable zero-carbon energy and environment protection cottage
CN102720635 A 20121010	CN20121216525 20120616	XIUGANG ZHU	F03D7/04	Multi-blade accelerating device of high-speed wind generating set
CN202338447U U 20120718	CN20112072211U 20110314	SHANGQING LI; LI DONGHUA	F03D9/00; F03D3/00; F03D3/06; F03D11/00	Multi-blade bridge diagonal type wind driver generator with recyclable fan blades
WO2012119281 A1 20120913	CN20111055281 20110309; CN20112059296U 20110309	ZHAO DONGNAN [CN]	F03D1/06; B63B35/44; F03D7/04; F03D11/04	MULTI-BLADE HORIZONTAL WIND MOTOR
WO2012119478 A1 20120913	CN20111055281 20110309; CN20111290143 20110928	DALIAN TIANLI WIND ENERGY DEV LLC [CN]; ZHAO DONGNAN [CN]	F03D5/04; F03D1/00	MULTI-BLADE HORIZONTAL WIND TURBINE
CN102748221 A 20121024	CN20121216524 20120616	XIUGANG ZHU	F03D7/04; F03D7/06; F03D11/02	Multi-blade wind wheel speed increasing device of high-speed wind generating set
CN102635524 A 20120815	CN20121093233 20120324	JIANG XU	F03G6/00; F01K27/02; F03B13/12; F03D9/00; F03G3/04; F03G4/00; F03G7/00	Multi-energy engine
KR20120125214 A 20121114	KR20120110550 20121005		F03D11/00; G01D21/02; G01L5/00; H01L31/042	System and Method of Measuring Parameters of Wind Power Genernator Blade including Separated Power Genernator
CN202451368U U 20120926	CN20112566445U 20111230	JIANMING QIU	F03D9/00	Multi-function wind power system
EP2523856 A1 20121121	WO2010SE50030 20100114	SAAB AB [SE]	B64D15/12; F03D1/06; F03D3/06; F03D11/00; H05B3/14	MULTIFUNCTIONAL DE-ICING/ANTI-ICING SYSTEM OF A WIND TURBINE

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GB2491386 A 20121205	GB20110009251 20110602	JONES ROSEMARY [GB]	F03D11/04; E04H12/00; F03D9/00; F03D11/00	Multifunctional electricity transmission tower
TWM440582U U 20121101	TW20120208412U 20120504	ZHANG YOU-CHENG [TW]	H02J15/00; F03D3/00; H01L31/042	Multi-functional energy storage device
CN202417839U U 20120905	CN20122027958U 20120121	CHUYANG ZHU	F03D11/00; F04D29/26	Multifunctional fan blade
CN102797616 A 20121128	CN20121264289 20120730	LIAOYUAN POWER SUPPLY CO LTD OF JILIN ELECTRIC POWER CO LTD	F03B13/06; F03B13/12; F03D9/00	Multifunctional independent power plant capable of realizing all-weather stable power supply by comprehensively utilizing various kinds of natural energy
CN102551261 A 20120711	CN20101580424 20101209	KEXUE GE	A43B3/00; F03D9/00; F21V33/00	Multifunctional shoe
CN202456810U U 20121003	CN20122059288U 20120223	TIANYI ZHANG	A45B11/00; A45B3/04; F03D9/00	Multifunctional umbrella capable of generating electricity by wind power
CN202353503U U 20120725	CN20112456272U 20111116	SHENZHEN TIMAR SCENERY ENERGY TECHNOLOGY CO LTD	H02N15/00; F03D9/00	Multilayer disk type vertical axis magnetic levitation wind driven generator
CN102787985 A 20121121	CN20121305547 20120816	KEFA DAI	F03D11/00	Multilayer wind wheel with directional wind and layout of wind farm of multilayer wind wheel with directional wind
CN202417818U U 20120905	CN20122001940U 20120105	DONGFANG ELECTRIC ENERGY EQUIPMENT HANGZHOU CO LTD	F03D7/00	Multilevel safety protection system of wind turbine generator set
CN202360303U U 20120801	CN20112507391U 20111208	GUODIAN UNITED POWER TECH CO [CN]	F03D9/00; F03D11/00; F03D11/02	Multi-megawatt compact wind turbine generator system
CN202326028U U 20120711	CN20112497836U 20111202	SINOVEL WIND GROUP CO LTD [CN]	F03D9/00; F03D11/04; F16H1/46	Multi-output wind generating set
RS20120072 A1 20120831	RSP20120072 20120224	SINIK RATOMIR [RS]	F03D3/04; F03B7/00; F03D3/00	MULTIPLE BLADE VERTICAL TURBINE WITH STABILIZED CENTRAL SPOILER

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WO2012148725 A2 20121101	US201113094952 20110427	SKYWOLF WIND TURBINE CORP [US]; BROCK GERALD E [US]	F03D1/00; F03D1/04; F03D7/00; F03D11/00	MULTIPLE MIXING INTERNAL EXTERNAL FLUID DRIVEN HIGH EFFICIENCY WIND TURBINE HAVING REDUCED DOWNSTREAM PRESSURE
EP2529108 A2 20121205	FR20100050551 20100127; WO2011FR50160 20110127	OKWIND [FR]	F03D3/04	MULTIPLE VENTURI WIND TURBINE
CN102691628 A 20120926	CN20121203225 20120619	FUHENG ZHANG	F03D9/00; F03D3/02; F03D11/02	Multiple-wheel variable-speed energy collection type hurricane wind-energy electricity generation mechanical device
CN102767481 A 20121107	CN20121223842 20120629	FANG HUANG	F03D9/00; F03D3/02; F03D3/06	Multiple-wind-direction wind-driven generator
CN202348583U U 20120725	CN20112538560U 20111220	SHUGUANG LI; HARBIN HIGH POWER VERTICAL WIND POWER EQUIPMENT ENGINEERING TECHNOLOGY RES CT CO LTD	F03D9/00; F03D3/06; F03D11/00; F16D3/54	Multiple-winding variable-pole-speed impeller vertical wind power generation system
KR101180860B B1 20120907	KR20120001958 20120106	KIM DA WON [KR]; KIM DUK BO [KR]	H02K57/00; F03D5/00; F03D9/00; F03D11/00	MULTI-POWER GENERATING SYSTEM USING WIND, SOLAR, HEALTHY
CN202353253U U 20120725	CN20112473155U 20111124	TIANJIN INST OF HYDROELECTRIC AND POWER RES	H02J7/00; F02B63/04; F03D9/00; H02J9/06; H02N6/00	Multi-power intelligent conversion charging device
WO2012148082 A2 20121101	KR20110040242 20110428	BAE MYUNG-SOON [KR]	F03B17/06; F03B3/12; F03D3/06	MULTIPURPOSE ROTARY DEVICE, AND GENERATING SYSTEM INCLUDING SAME
RO127910 A2 20121030	RO20110000389 20110426	POPA MIHAI [RO]	F03D3/06	MULTI-STAGE WIND ROTOR FOR IRRIGATIONS

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CN102561726 A 20120711	CN20121041607 20120216	ANHUI HONGLU STEEL GROUP CO; SHANJUN SUN	E04H1/00; E04B2/88; E04D13/18; E04F13/075; F03D9/00	Multi-storey and high-rise building system configured by power-assembling section plates
CN202404856U U 20120829	CN20122017473U 20120113	GUANGZHOU POEM OF LIGHT ENERGY TECHNOLOGY CO LTD	G09F13/02; F03D9/00; H02J7/00	Multi-wind-turbine independent feed type large outdoor billboard
CN102661239 A 20120912	CN20121152431 20120517	GANSU KEHUITE RESOURCE COMPREHENSIVE DEV CO LTD; SUZHOU FLY RENEWABLE ENERGY TECHNOLOGY CO LTD	F03D1/06; F03D3/06	Multi-wing collecting vane capable of utilizing wind power efficiently
DE202012006595U U1 20120828	DE201220006595U 20120710	AERODYN ENG GMBH [DE]	F03D11/00	Nabe einer Windenergieanlage
CN202545138U U 20121121	CN20122179725U 20120425	DONGFANG TURBINE CO LTD DONGFANG ELECTRIC CORP	F03D11/00; F03D9/00	Nacelle chassis of wind generating set
WO2012130243 A2 20121004	US201161469172P 20110330; DK20110070162 20110406	VESTAS WIND SYS AS [DK]; NYVAD JESPER [DK]; BITSCH MICHAEL LUNDGAARD [DK]; ABOLFAZLIAN MAZYAR [DK]; MOGENSEN MORTEN [DK]; PIZZUTO ANTONINO [DK]; DAMGAARD MADS [DK]	F03D11/00	NACELLE CONSTRUCTION FOR A WIND TURBINE
CA2778780 A1 20121201	EP20110168522 20110601	ZF WIND POWER ANTWERPEN NV [BE]	F03D11/00; B66C17/06; F16H57/025; F16M1/00	NACELLE MAIN FRAME STRUCTURE AND DRIVE TRAIN ASSEMBLY FOR A WIND TURBINE

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EP2504573 A2 20121003	EP20090014701 20091125; WO2010EP63641 20100916; EP20100754510 20100916	SIEMENS AG [DE]	F03D9/00; F03D11/00	NACELLE SHELL STRUCTURE, LOCK LABYRINTH AND WIND TURBINE
CN102619704 A 20120801	CN20121114449 20120418	CSIC CHONGQING HAIZHUANG WINDPOWER EQUIPMENT CO LTD	F03D11/00	Nacelle-cooling system
WO2012105971 A1 20120809	WO2011US23480 20110202	SMITH MATTHEW K [US]	F03D11/00; F03D1/00; F03D11/02	NACELLE-MOUNTED MAINTENANCE SYSTEM FOR WIND TURBINES
WO2012165444 A1 20121206	JP20110123225 20110601; JP20110149016 20110705	ALBATROSS TECHNOLOGY LLC [JP]; AKIMOTO HIROMICHI [JP]	F03D9/00; F03B7/00; F03B17/06; F03D7/06; F03D9/02	NATURAL ENERGY EXTRACTION APPARATUS
US2012267896 A1 20121025	US201113090789 20110420	CLIPPER WINDPOWER LLC [US]	F03D9/00; H02H7/00	Network Protection for Power Spot Networks
CN102750891 A 20121024	CN20121242831 20120714	WUXI TONGCHUN NEW ENERGY TECH	G09F13/22; F03D9/00	New energy cultural signboard with wind and PV complementary generation
CN102606239 A 20120725	CN20121084058 20120327	GUANGSHUN WANG	F01K23/06; F01D15/10; F01K23/04; F03D1/04; F03D9/00	New energy hybrid power station with cascaded steam turbine
KR20120103777 A 20120920	KR20110021184 20110310	KENERTEC CO LTD [KR]	F01K25/14; C02F11/04; F03D9/00; H01L31/042	NEW RENEWABLE ENERGY HYBRID POWER GENERATION SYSTEM
CN202402217U U 20120829	CN20122022758U 20120118	DENGRONG ZHOU; JIAN ZHOU	F03D9/00; F03D1/06	N-group small-size turbine turbofan power generation system of wind power generation tower

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EG26006 A 20121209	WO2009JP56028 20090318; JP20080071101 20080319; JP20090015105 20090127	SUMITOMO CHEMICAL CO [JP]	C07C255/31; A01N37/34; A01N43/04; C07D303/38	Nitrile compound and its use for control of arthropod pest
DK201270274 A 20121201	US201113149513 20110531	GEN ELECTRIC [US]	F03D7/02	Noise reducer for rotor blade in wind turbine
CN102536639 A 20120704	US20100972806 20101220	GEN ELECTRIC [US]	F03D1/06; B32B7/12; B32B27/06; B32B27/30	Noise reducer for rotor blade in wind turbine
CN102562436 A 20120711	US20100970119 20101216	GEN ELECTRIC [US]	F03D1/06	Noise reducer for rotor blade in wind turbine
KR20120125300 A 20121114	WO2010EP01971 20100329; DE201010006299 20100120		F03D7/02; F16D65/18; F03D11/00; F03D11/02	Hydraulic braking device for a yaw drive of a wind turbine and control device therefor
AU2012101632 A4 20121213	AU20120101632 20121115	WILKINSON ROGER	F03D11/00; B64C3/58; B64C11/18	Noise, airflow and efficiency improvements for propeller fans, wind-turbines and wind-mills
CN202402219U U 20120829	CN20112531472U 20111216	JIANGSU JINFENG JIATE ELECTROMECHANICAL CO LTD	F03D11/00	Non-corrosive wind power generating tower
CN202440333U U 20120919	CN20112437199U 20111108; CN20122081588U 20120227	JIANGSU FENGSHENG SEA WATER DESALINIZATION TECHNOLOGY CO LTD	C02F1/00; F03D9/02; H02J7/00	Non-grid-connection wind power sea water desalting device
CN102648417 A 20120822	WO2010EP67288 20101111; US20090261224P 20091113	SCHAEFFLER TECHNOLOGIES GMBH	G01P3/00; F03D7/00; G08C23/04	Non-invasive speed sensor

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WO2012142563 A1 20121018	US201161476103P 20110415	UNIV NORTHEASTERN [US]; THORP DYLAN [US]; BYERS LIAM [US]; NOAH MITCHELL [US]; OLSEN THOMAS [US]; WEINER EVAN [US]; TASLIM MOHAMMAD [US]	F03D9/00	NON-ROTATING WIND ENERGY GENERATOR
CN202480900U U 20121010	CN20122123768U 20120320	YUEWEI YU	B60L8/00; F03D9/00	Novel automobile wind turbine generator
CN202510293U U 20121031	CN20122144319U 20120409	HUADIAN NEW ENERGY DEV CO LTD	F03D11/00; F03D11/04	Novel buffer device applied to foundation ring of wind generating set
CN102644554 A 20120822	CN20121139536 20120508	UNIV SHANDONG	F03D9/00; C08K3/04; C08K7/06; C08K7/10; C08K7/14; C08L23/06; C08L23/12; C08L61/06; C08L61/16; C08L63/00; C08L75/04; C08L77/00; C08L81/02; C08L83/04; F03D3/06	Novel carbon fiber wind driven generator and preparation method thereof
CN102787972 A 20121121	CN20121306428 20120827	HENAN JINSHAN ENVIRONMENTAL PROT TECHNOLOGY IND PARK CO LTD; ZHIGANG NI	F03D3/06	Novel efficient windmill
CN202545128U U 20121121	CN20122128772U 20120330	YANGZHOU SHENZHOU WIND DRIVEN GENERATOR CO LTD	F03D11/00	Novel fan blade structure for wind power generator
CN102748236 A 20121024	CN20111108271 20110422	ZHONGSHENG ZHENG	F03D9/02; F03D1/06; F03G3/00	Novel fluid transmission wind driven generator for guaranteeing stability of grid connection

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CN202431463U U 20120912	CN20122006189U 20120106	GUANGDONG MINGYANG WIND POWER INDUSTRY GROUP CO LTD	F03D11/04	Novel hexagonal fan tower
CN102678457 A 20120919	CN20111054511 20110308	XIAOLIN ZHAO; YONG MA; ZHAO JINZHU	F03D9/00; F03D5/00; F03D7/00	Novel medium- and high-attitude kite power generation device
CN102619681 A 20120801	CN20121072660 20120319	YUNZE RAN	F03D5/02	Novel method and mechanism for efficiently collecting huge wind energy
CN202560478U U 20121128	CN20122237076U 20120524	PEIXIN LV	F03D9/00; F03D11/00	Novel navigation wind driven generator
CN102619686 A 20120801	CN20121112166 20120417	UNIV LANZHOU JIAOTONG	F03D7/00	Novel pitch control device with low-voltage ride through capability and control method
CN102734070 A 20121017	CN20111088785 20110411	BO YAN	F03D9/00; F03D3/00; F03D3/06	Novel rotating device
CN202500725U U 20121024	CN20122097970U 20120315	LIXIN XUE	F03D9/00; F03G6/00	Novel solar wind power generation device
US2012306205 A1 20121206	US201213353317 20120119; US201161493937P 20110606	LUCID ENERGY INC [US]	F04D17/06; B21K25/00; F03B3/00; F03D3/04; H02K7/18	NOVEL SYSTEMS FOR INCREASING EFFICIENCY AND POWER OUTPUT OF IN-CONDUIT HYDROELECTRIC POWER SYSTEM AND TURBINE
CN202391663U U 20120822	CN20112544627U 20111223	JIANGSU HAILI WIND POWER EQUIPMENT TECHNICAL CO LTD	F03D11/00	Novel tower rack for intertidal wind power generation equipment
WO2012146141 A1 20121101	CN20112134557U 20110428	GUANGZHOU HONGYING ENERGY TECHNOLOGY CO LTD [CN]; ZHAO WEIQIANG [CN]	F03D1/06; F03D7/04	NOVEL UNASSISTED VARIBALE-PITCH WIND GENERATOR
CN202545112U U 20121121	CN20122161925U 20120417	UNIV LANZHOU JIAOTONG	F03D7/00	Novel variable-pitch control device with low voltage ride-through capacity
CN202470461U U 20121003	CN20112577497U 20111229	UNIV ZHEJIANG NORMAL	F24J2/00; F03D9/00	Novel water heater

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CN102562465 A 20120711	CN20101610506 20101229	SUZHOU FLEXTECH INC	F03D9/00; F03D3/06; H01L31/042; H02J7/00; H02N6/00	Novel wind and light integrated generating system
CN102691621 A 20120926	CN20121199960 20120618	ZONGFAN YUAN	F03D7/04; F03D11/02	Novel wind driven generator
CN202300858U U 20120704	CN20112442601U 20111110	LIPING HE	F03D9/00; F03D7/00; F03D11/04	Novel wind driven generator
CN202483804U U 20121010	CN20112537920U 20111220	GUANGDONG MINGYANG WIND POWER INDUSTRY GROUP CO LTD	F03D11/00	Novel wind driven generator tower
CN202326023U U 20120711	CN20112471772U 20111123	GUANGDONG DONGXING FENGYING WIND POWER EQUIPMENT CO LTD	F03D9/00; H02J3/38; H02K7/10	Novel wind generating set structure
CN202431461U U 20120912	CN20112539271U 20111220	GUANGDONG MINGYANG WIND POWER INDUSTRY GROUP CO LTD	F03D11/02	Novel wind generator tower body
CN102678459 A 20120919	CN20111064492 20110312	YOUQI XIA	F03D9/00; F03D11/00	Novel wind power generating device
CN102748208 A 20121024	CN20111095800 20110418	JIANGSU PROVINCE FLY LIGHTING MFG CO LTD	F03D7/00	Numerical control speed regulating device for micro wind driven generator
CN102748220 A 20121024	CN20111095929 20110418	JIANGSU PROVINCE FLY LIGHTING MFG CO LTD	F03D7/04; F03D11/02	Numerical control speed-regulating mini-type wind driven generator
DE202012006365U U1 20121022	DE201220006365U 20120828	JACEK PAUL [DE]	F03D9/00	Nutzung der vorhandenen Verkehrsinfrastruktur Bauten zur gewerblichen Energieerzeugung mit Windkraftanlagen
DE202012008123U U1 20121115	DE201220008123U 20120827	JACEK PAUL [DE]	F03D9/00	Nutzung der vorhandenen Verkehrsinfrastrukturbauten zur gewerblichen Energieerzeugung mit Windkraftanlagen
TWM438538U U 20121001	TW20110223822U 20111216	QIU JIN-HE [TW]	F03D5/00	Ocean wind integrated power generation device

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CN102644553 A 20120822	CN20121122778 20120425	UNIV ZHEJIANG OCEAN	F03D9/00; F03D11/02; H02K7/18	Ocean wind power generation device based on stepless speed change
CN202326015U U 20120711	CN20112429883U 20111103	SHANDONG ZHONGKAI WIND POWER EQUIPMENT MFG CO LTD; XUNFENG WEI	F03D9/00; H02N6/00	Off-grid scene complementary mobile box type power generation system
WO2012105034 A1 20120809	WO2011JP52329 20110204	HITACHI LTD [JP]; SAKAMOTO KIYOSHI [JP]; MATSUNOBU TAKASHI [JP]; YANAGIBASHI TAKUJI [JP]; AZEGAMI KENICHI [JP]; HASEGAWA TSUTOMU [JP]	F03D11/04; F03D9/00	OFFSHORE DOWNWIND WIND TURBINE SYSTEM
NO332557B B1 20121022	NO20110000369 20110310	VICI VENTUS TECHNOLOGY AS [NO]	F03D11/04; E02B17/02	OFFSHORE FOUNDATION FOR INSTALLATION ON THE SEABED AND METHOD FOR INSTALLATION OF THE OFFSHORE FOUNDATION
EP2522780 A1 20121114	DE201120100627U 20110512; DE201120101599U 20110531	MARITIME OFFSHORE GROUP GMBH [DE]	E02B17/00; F03D11/04	Offshore foundation for wind energy facilities
WO2012130291 A1 20121004	WO2011EP54844 20110329	AMSC WINDTEC GMBH [AT]; KRAUSE MARKUS [AT]	E02B17/02; F03D1/00	OFFSHORE FOUNDATION STRUCTURE WITH HULL FOR WIND TURBINES
KR20120076794 A 20120710	KR20100138511 20101230	NAT UNIV PUKYONG IND UNIV COOP [KR]	A01G33/00; F03D11/04	OFFSHORE SEAWEED FARMING FACILITY ASSOCIATED WIND POWER GENERATING STRUCTURE
KR20120135637 A 20121217	KR20110054459 20110607	UNIV KONKUK IND COOP CORP [KR]	F03D11/04; E02D27/52	OFFSHORE STRUCTURE AND CONSTRUCTION METHOD USING THE SAME

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WO2012144884 A1 20121026	WO2011NL50265 20110418	LIANDON B V [NL]; KORNDORFFER CONTRACTING INTERNAT K C I B V [NL]; KORNDORFFER DIETER [NL]; KNOL KLAAS PIETER [NL]	F02D1/00; F03D11/00	OFFSHORE SUBSTATION FOR A WIND FARM
DK201170598 A 20121008	DK20110070598 20111101	VESTAS WIND SYS AS [DK]	E02B17/02; B63B35/44; F03D11/04	OFFSHORE SUPPORT STRUCTURE AND MANUFACTURE THEREOF
CN102797617 A 20121128	CN20121288335 20120814	CHINA HUANENG GROUP CLEANING ENERGY TECHNOLOGY RES INST CO LTD	F03B13/14; F03D9/00	Offshore wind power and ocean wave energy combined generating set
CN102619706 A 20120801	CN20121128011 20120427	DONGFANG TURBINE CO LTD DONGFANG ELECTRIC CORP	F03D11/00	Offshore wind power generation unit
WO2012169914 A1 20121213	PL20110395163 20110607	VISTAL WIND POWER SP Z O O [PL]; RYLKE ANTONI [PL]; ZAWADSKI KRZYSZTOF [PL]	F03D1/00; B63B21/50; F03D11/04	OFFSHORE WIND POWER TURBINE AND A METHOD OF ERECTING OFFSHORE WIND POWER TURBINE.
US2012257973 A1 20121011	DK20110070169 20110411	ENVISION ENERGY DENMARK APS [DK]	F03D7/00; E04B1/16	OFFSHORE WIND TURBINE HAVING A SUPPORT SYSTEM FOR INTERCHANGEABLE CONTAINERS, THE SUPPORT SYSTEM BEING COMBINED WITH A WAVE RUN-UP DEFLECTOR AND METHOD OF MANUFACTURING SAME
KR101164227B B1 20120710	KR20110142807 20111226	MOKPO NAT UNIV IND ACAD COOP [KR]	E02D27/00; E02D27/52; F03D11/04	OFFSHORE WIND TURBINE STRUCTURE USING STEEL PIPE PILE FOUNDATION AND PREFABRICATED STRUCTURE
DE102011075700 A1 20121115	DE201110075700 20110512	BOSCH GMBH ROBERT [DE]	F03B13/10; F03D9/00	Offshore-System zur Erzeugung regenerativer Energie

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KR20120137189 A 20121220	KR20110056948 20110610	MIN SUNG GI [KR]	H01L31/052; F03D9/00; F24J2/46	OMITTED
KR20120135968 A 20121218	KR20110054890 20110608	KIM JUU HWAN [KR]	F03D9/00; F03B13/00	OMITTED
KR20120134529 A 20121212	KR20110053475 20110601	MIN SUNG GI [KR]	H01L31/052; F03D9/00; H01L31/058	OMITTED
KR20120098358 A 20120905	KR20110018275 20110225	MIN SUNG GI [KR]	F03G6/00; F03D9/00; H01L31/042; H01L31/052	OMITTED
KR20120087110 A 20120806	KR20120067061 20120521	CHOI JAE SONG [KR]	F03B13/06; F03B17/00; F03D9/00	OMITTED
KR20120094600 A 20120827	KR20110013960 20110217	MIN SUNG GI [KR]	F03D9/00; F03D1/04; F03D3/04; H01L31/042	OMITTED
CN202348580U U 20120725	CN20112500806U 20111206	HE ZHANG	F03D9/00; F03B3/00; F03B3/12; F03B13/26; F03D3/00; F03D3/06; F03D11/00	Omnidirectional loose blade vertical shaft wind tide magnetic transmission generating set
CN202417824U U 20120905	CN20112478889U 20111128	XI AN CO MEN ELECTRONIC TECHNOLOGY CO LTD	F03D9/00; F03D1/06	Omnidirectional portable wind power generating set
US2012326445 A1 20121227	US201113167255 20110623	APPLE INC [US]	F03D9/02	ON-DEMAND GENERATION OF ELECTRICITY FROM STORED WIND ENERGY
KR20120114796 A 20121017	KR20110032557 20110408	NAT UNIV CHONBUK IND COOP FOUN [KR]	F03D11/02; F03D7/00; H02K7/18	ONE-WAY WIND POWERED GENERATOR
CN102628424 A 20120808	CN20111038551 20110207	WENLI NING	F03D5/00; F02B75/02; F03B3/14; H02K35/02	Open-close type driving machine
EP2522851 A2 20121114	DE201110100981 20110510	BOSCH GMBH ROBERT [DE]	F03D7/02; F03D7/04	Operating method for a wind energy assembly
HU1000374 A2 20121128	HU20100000374 20100716	CSUERKE ZOLTAN [HU]; KORNHERR TIBOR [HU]	B60K6/00; F03D1/00	OPERATING TRUCKS BY HYBRID ENERGY SOURCE

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WO2012097816 A1 20120726	US201113007825 20110117	VESTAS WIND SYS AS [DK]; HJORT THOMAS [DK]	H02J3/48; F03D7/02; F03D9/00	OPERATING WIND TURBINES UNDER CONVERTER FAULTS
WO2012089210 A1 20120705	US20100981851 20101230	VESTAS WIND SYS AS [DK]; WESTERGAARD CARSTEN HEIN [US]	G01P13/00; F03D7/02; G01P5/26; G01P13/02; G01S17/58	OPTICAL ANGLE OF ATTACK DETECTOR BASED ON LIGHT DETECTION AND RANGING (LIDAR) FOR CONTROL OF AN AERODYNAMIC SURFACE
WO2012110188 A1 20120823	DE201110011392 20110217	SSB WIND SYSTEMS GMBH & CO KG [DE]; VAN SCHELVE JENS [DE]; SPIELMANN JENS [DE]	F03D11/00; F03D7/02; G01B11/00; G01B11/16	OPTICAL MEASURING DEVICE FOR THE DEFORMATION OF A ROTOR BLADE OF A WIND TURBINE
CN102536652 A 20120704	CN2012118320 20120120	JIANGSU ELEC POWER DES INST	F03D7/00	Optimized arranging method for wind generator groups in wind farm
WO2012153138 A1 20121115	GB20110007858 20110511	ANWYLL JOSEPH [GB]	F03D7/02	ORIENTATION CONTROL DEVICE FOR A WIND TURBINE AND A METHOD THEREOF
RU2462612 C1 20120927	RU20110127078 20110704	LJATKHER VIKTOR MIKHAJLOVICH [RU]	F03B13/10; F03D3/06	ORTHOGONAL POWER GENERATING UNIT TO CONVERT ENERGY OF WATER OR AIR FLOWS
GB2491839 A 20121219	GB20110009868 20110613	COXON CHRISTOPHER JOHN [GB]	F03B17/06; F03D5/06	Oscillating wing power generator
CN102712360 A 20121003	WO2010IL00980 20101123; US20090288386P 20091221	UNIV RAMOT [IL]	B64C21/02; F03D1/06	Oscillatory vorticity generator and applications thereof
EP2481923 A1 20120801	WO2010JP71061 20101125	MITSUBISHI HEAVY IND LTD [JP]	F03D9/02; F03D9/00; H02J3/32	OUTPUT CONTROL METHOD AND OUTPUT CONTROL DEVICE FOR WIND-POWERED ELECTRICITY GENERATING FACILITY
CN202531365U U 20121114	CN20122102939U 20120319	TIANJIN XIANGWEI TRANSMISSION LTD	F03D11/02; F16H1/28	Overdrive gear box of high-power wind driven generator

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NO20120618 A 20121128	NO20110000776 20110527; NO20120000618 20120525	OWEC TOWER AS [NO]	F03D11/04; E02B17/02; E02D27/42; E04B1/19; E04B1/58; E04H12/10	Overgangselement for festing av et tarn til en jacket
CN202300849U U 20120704	CN20112376396U 20110928	JIAHAO NEW ENERGY INVEST CO LTD	F03D9/00; F03D1/00; F03D3/00; F03D11/00; F16C32/04; H01T19/04; H02N6/00	Overhead light energy and wind energy power generation system
GB2491548 A 20121212	GB20100016493 20100930	VESTAS WIND SYS AS [DK]	F03D7/04; F03D9/00	Over-rating control of a wind turbine power plant
CN202338450U U 20120718	CN20112418058U 20111028	HANGZHOU XINLONG WIND ENERGY TECHNOLOGY CO LTD	F03D11/00; F16D59/00	Overspeed protection device for wind driven generators
EG25916 A 20121014	WO2009EP01766 20090312; SE20080000605 20080314	TETRA LAVAL HOLDINGS & FINANCE [CH]	B32B27/10; C08J7/04	Packaging laminate, method for manufacturing of the packaging laminate and packaging container produced therefrom
CN202402210U U 20120829	CN20112563473U 20111229	DALIAN DESIGN INST CO LTD CHINA FIRST HEAVY IND; CHINA FIRST HEAVY INDUSTRIES	F03D7/00	Paddle changing system for ocean high-power wind generation set
ES2391016 A1 20121120	ES20100031306 20100901	BATZ S COOP [ES]; IBAIA EN S L; FPK S A U; ENERA ENERGY AND MOBILITY S L	F03D1/06; B29C45/00; B29C45/14; B29D99/00	PALA DE AEROGENERADOR
ES2385726 A1 20120731	ES20120000492 20120510	TORRES MARTINEZ M [ES]	F03D1/00	Pala de aerogenerador formada por tramos
ES1078090U U 20121123	ES20120031104U 20121023	VEHI LORENTE EUDALD	F03D11/00	Pala de aerogenerador perfeccionada
ES2388514 A1 20121016	ES20120000519 20120518	TORRES MARTINEZ M [ES]	F03D7/02; B64C21/08; F03D1/06	Pala de aerogenerador, de geometrŸa variable con control pasivo

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CN102650264 A 20120829	CN20111043949 20110223	JINLIAN ZENG	F03D9/00; E04H5/02; F03D3/02; F03D3/04; F03D11/00	Parallel matrix integrated wind power generation system
CN202300857U U 20120704	CN20112427801U 20111102	SHANDONG CHANGXING WIND POWER TECHNOLOGY CO LTD	F03D9/00; F03D11/00; F16H1/20; H02K7/116	Parallel type wind generating set for multi-stage speed-increasing box
EP2529479 A1 20121205	BE20100000049 20100129; WO2010EP55637 20100427	3E [BE]	H02P9/10	PASSIVE CONVERTER
CN102678452 A 20120919	CN20121161598 20120522	UNIV JIANGNAN	F03D7/00	Passive fault-tolerant control method for wind turbine based on linear parameter varying (LPV) variable gain
KR20120117057 A 20121024	KR20110034558 20110414	CHOI SUN YOUN [KR]	F03D9/00; F03D1/04; F03D7/02; F24F7/06	PASSIVITY CONTROL WIND-POWER GENERATION DEVICE
KR20120112617 A 20121011	FR20090059607 20091224	SOLETANCHE FREYSSINET [FR]	B63B35/00; B63B9/06; F03D11/00	PENDULAR SYSTEM FOR TRANSPORTING A CIVIL ENGINEERING STRUCTURE IN AN AQUATIC MEDIUM
ES2393332 A1 20121220	ES20120001072 20121022	UNIV LA RIOJA [ES]	F03D1/06	Perfil aerodinßmico con sustentaci¾n hÝbrida para una pala de aerogenerador
WO2012168499 A1 20121213	WO2011ES70418 20110609	DYNATECH DYNAMICS & TECHNOLOGY S L [ES]; MATEO MUR FRANCISCO DE ASIS [ES]	F03D3/00; F03D3/06	PERGOLA INTENDED FOR THE ROOFTOP OF A BUILDING AND ATTACHMENT OF A WIND GENERATOR
FR2971560 A1 20120817	FR20110000476 20110216	BARATOUX GILLES [FR]	F03D11/00; F03D3/00	Peripheral device for use in wind turbine that is installed in land to produce electricity, has support fixed to vertical axle of rotor of wind turbine, and fixed wing supporting counterweight of adjustable wing and centrifugal drive system

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US2012169063 A1 20120705	ZA20090006507 20090918; WO2010IB02329 20100917	UNIV STELLENBOSCH [ZA]	H02K5/02; F03D9/00; H02K1/12; H02K15/02	PERMANENT MAGNET GENERATOR
CN202550580U U 20121121	CN20122119120U 20120327	SHANGHAI MUNICIPAL ELEC POWER; EAST CHINA ELECTRIC POWER RES INST CO LTD	H02J3/38; F03D9/00	Permanent-magnet directly-driving wind turbine generator unit device
CN202451366U U 20120926	CN20112574278U 20111231	SHENZHEN FENGFA TECHNOLOGY DEV CO LTD	F03D7/06	Perpendicular shaft wind machine disturbed flow device, support and perpendicular shaft wind machine
US2012299526 A1 20121129	US201113068831 20110523	LAMBERT STEVEN R [US]	H01M10/46; F03D9/00	Perpetual EV split power system
EG25903 A 20121007	WO2008IB50874 20080311; ZA20070002086 20070312; ZA20070004073 20070521; ZA20070008349 20071001	ACTIVETRAD PROPRIETARY LTD [ZA]	A01N43/74; A01N43/76	Pest attractant
EG25991 A 20121121	WO2008JP56641 20080327; JP20070091202 20070330	SUMITOMO CHEMICAL CO [JP]	A01P7/02; A01P7/04	Pesticidal composition and method for controlling harmful insects
EP2481926 A1 20120801	JP20110014995 20110127	FUJI HEAVY IND LTD [JP]	F03D11/00; F03D7/02	Phase change method and phase change jig for a blade bearing
EP2484904 A2 20120808	US201161440500P 20110208	BUNGE STEFFEN [CA]	F03D11/00	Photogrammetric assessment to verify or determine alignment angles of wind turbine parts
KR20120080155 A 20120716	KR20120060668 20120606	KIM YOUNG CHAN [KR]	F03D9/00; F03D3/00; H01L31/042; H02N6/00	PHOTOVOLTAIC AND WIND POWER COMBINED ELECTRIC GENERATOR

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AR082325 A1 20121128	DE201010038311 20100723	WOBBEN ALOYS [DE]	B60P7/06; B65D85/68	PIE DE PROTECCION PARA UNA CARGA GENERAL, EN ESPECIAL SEGMENTOS DE TORRE DE HORMIGON
CN102720639 A 20121010	CN20121236018 20120710	UNIV SHANDONG	F03D9/00; F03D7/06; H02N2/18	Piezoelectric type wind power generation device
CN102628478 A 20120808	US201113021964 20110207	GEN ELECTRIC [US]	F16C35/08; F03D11/00	Pillow block for bed plate of wind turbine
CN102588215 A 20120718	CN20121076648 20120321	YANG LUO	F03D7/06; F03D3/06; F03D9/00	Pitch angle adjusting mechanism for blades of vertical axis wind generator and vertical axis wind generator
CN202545113U U 20121121	CN20122108934U 20120321	YANG LUO	F03D7/06; F03D3/06	Pitch angle adjusting mechanism for vertical shaft wind turbine blade
CN102734060 A 20121017	EP20110162405 20110414	SIEMENS AG [DE]	F03D1/06; F03D7/02	Pitch bearing
CN102748210 A 20121024	CN20121204268 20120620	WUXI CHIRUN SHEET METAL MACHINERY MFG CO LTD	F03D7/00; F03D11/00	Pitch cabinet structure for wind power generation system
CN202370752U U 20120808	CN20112519175U 20111213	BEIJING JINFENG KECHUANG WIND POWER EQUIPMENT CO LTD; BEIJING TIANYUAN SCIENCE & TECHNOLOGY CREATION WINDPOWER TECHNOLOGY CO LTD	F03D9/00; F03D7/00	Pitch control device for wind generating set and wind generating set
CN102562453 A 20120711	CN20121052182 20120301	GUODIAN UNITED POWER TECH CO [CN]	F03D7/00	Pitch control method of variable-speed constant-frequency wind driven power generator at rated revolution speed stage
CA2765434 A1 20120730	CN20111033400 20110130	SINOVEL WIND GROUP CO LTD [CN]	F03D7/00	PITCH CONTROL SYSTEM AND METHOD FOR WIND TURBINE

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AU2011231625 A1 20121011	DE20101016105 20100323; WO2011EP54438 20110323	MOOG UNNA GMBH [DE]	F03D7/02	Pitch drive device capable of emergency operation for a wind or water power plant
EP2502334 A2 20120926	DE200910046883 20091119; WO2010EP67700 20101117	MOOG UNNA GMBH [DE]	H02K23/64; B60L11/18; F03D7/04; F03D9/00; H02K27/12; H02P4/00; H02P25/02; H02P29/00	PITCH DRIVE DEVICE FOR A WIND POWER OR HYDROELECTRIC POWER STATION
JP2012137093 A 20120719	JP20120055482 20120313	MITSUBISHI HEAVY IND LTD [JP]	F03D7/04	PITCH DRIVE DEVICE OF WIND POWER GENERATOR AND WIND POWER GENERATOR
EP2495435 A1 20120905	EP20110001661 20110301	AREVA WIND GMBH [DE]; MOOG UNNA GMBH [DE]	F03D7/02	Pitch drive system and method for controlling a pitch of a rotor blade of a wind energy plant
CN102562454 A 20120711	GB20100020834 20101208; US20100420936P 20101208	VESTAS WIND SYS AS [DK]	F03D7/02; F03D1/06; F16H55/17	Pitch gear
CN102562452 A 20120711	CN20121017722 20120119	AUTO CONTROL TECHNOLOGY INST OF SHENYANG UNIVERSITY OF TECHNOLOGY	F03D7/00	Pitch-varying system for synchronous variable-pitch wind generating set with protection function
GR20110100081 A 20120920	GR20110100081 20110211	CHATZAKIS GEORGIOS EMMANOUIL [GR]	F03D1/06	PLACEMENT OF PERFORATED POLYESTER FABRIC BLADES IN WINDMILL PROPELLERS
EP2474733 A2 20120711	US20110987596 20110110	VESTAS WIND SYS AS [DK]	F03D1/06; F03D11/00	Plain bearing for a wind turbine blade and method of operating a wind turbine having such a plain bearing
GB2491248 A 20121128	GB20110008773 20110525	ROMAX TECHNOLOGY LTD [GB]	F03D11/02; F16H1/28	Planet carrier with twin offset gear sets
EP2518371 A1 20121031	US201113097900 20110429	GEN ELECTRIC [US]	F16H57/08; F03D11/02; F16H1/28	Planet pin and planetary gear system

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CN202360735U U 20120801	IT2010BO00109U 20101029	BONFIGLIOLI RIDUTTORI SPA	F16H57/08; F16H55/17	Planetary reduction gear
WO2012120005 A1 20120913	DE201110005240 20110308	SKF AB [SE]; STEINHAUS FRANK [DE]; BUCH STEPHAN [DE]	F03D11/02; F16H57/08	PLANETARY TRANSMISSION OF A WIND TURBINE
CN202360738U U 20120801	CN20112523041U 20111213	HARBIN DONGAN ENGINE GROUP CO LTD	F16H57/08; F03D11/02; F16H57/023	Planetary transmission structure of wind power gear box
CN102730644 A 20121017	CN20111087363 20110408	JINHUA CUI	C01B13/02; C01B13/11; C01B31/00; C01B31/18; F03D9/00; H02N6/00	Plasma carbon dioxide oxygen-generator powered by solar energy compensated by wind power
ES1077698U U 20120914	ES20120000734U 20120807	PLAZA VILAR JESUS [ES]	F03D11/00	Plataforma modular para mantenimiento en aerogeneradores
WO2012149935 A1 20121108	DK20110000339 20110504	PP ENERGY APS [DK]; TEICHERT PAUL [DK]	E04G3/24; F03D1/00	PLATFORM ASSEMBLY FOR ENABLING ACCESS TO A WIND TURBINE
WO2012152287 A2 20121115	DK20110070231 20110512	INVENSTAR APS [DK]; STARUP AAGE [DK]	E04H3/24; E04B1/00; E04H12/00; F03D11/04	PLATFORM CONSTRUCTION
DE102011010830 A1 20120809	DE201110010830 20110204	TEMBRA GMBH & CO KG [DE]	F03D11/00	Pneumatic brake azimuth for wind turbines, has multiple planar pneumatic actuators that are positioned on lower side of machine frame, braking pads act on upper side of stationary bearing ring
CN202326016U U 20120711	CN20112444787U 20111111	SHUJUN HAN	F03D9/00; F03D1/00; F03D11/00; F16H47/02	Pneumatic hydraulic generator set
CN202290361U U 20120704	CN20112402037U 20111020	XU LI	B05B1/18; B05B15/00; F03D9/00	Pneumatic light-emitting shower head
CN102705271 A 20121003	CN20121020947 20120130	XINTAI FENGLONGWANG EQUIPMENT CO LTD	F04F1/06; F03B13/06; F03D9/00	Pneumatic pumping energy storage system and potential energy generation system

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CN102536664 A 20120704	CN20121003343 20120109	QINGDAO MINSHEN WIND POWER TECHNOLOGY CO LTD	F03D7/04	Pneumatic variable pitch brake system of wind power generator
CN202431442U U 20120912	CN20122004892U 20120109	QINGDAO MINSHEN WIND POWER TECHNOLOGY CO LTD	F03D7/00	Pneumatic variable-paddle braking system of wind driven generator
CN102748237 A 20121024	CN20121253086 20120722	UNIV HEBEI TECHNOLOGY	F03D9/02	Pneumatic wind power generating equipment
CN202300863U U 20120704	CN20112429922U 20111103	UNIV WUHAN TECH	F03D9/02; F03B13/00; H02J7/00; H02N6/00	Pontoon composite cleaning energy distributed power supply system
TW201236314 A 20120901	TW20110105279 20110217	SUNWELL DYNAMICS RESOURCES CORP [TW]	H02J7/34; F03D3/00; H02J7/35	Portable complex power supply apparatus
CN102661247 A 20120912	CN20121154365 20120518	SHANDONG ZHONGKE JIEGAO PHOTOELECTRIC TECHNOLOGY CO LTD	F03D9/00; F03D3/06; H02K5/26	Portable magnetic suspension wind power generation device
CN202326010U U 20120711	CN20112466861U 20111122	BEIJING HUADIAN TIANREN ELECTRIC POWER CONTROL TECHNOLOGY CO LTD	F03D7/00	Portable manually-assisting pitch changing device
TW201231806 A 20120801	TW20110103365 20110128	JIANG DING-YUAN [TW]; KANG YOU-PING [TW]	F03D9/02	Portable power generation device
CN202391657U U 20120822	CN20112535257U 20111220	JIANKE WEI; ZHAOCHENG WEI	F03D9/00; F03D11/00; F03G5/00; H02N6/00	Portable power generator
CN202326029U U 20120711	CN20112498030U 20111205	YABEI LU; YANG BAI	F03D9/00; F03D3/00; F03D3/06	Portable wind power generator
CN202444445U U 20120919	CN20122043339U 20120210	DONGFANG ELECTRIC INVEST DEV CO LTD OF DONGFANG ELECTRIC CORP	H02N6/00; F03D9/00	Portable wind-light complementary generation system
CN102792019 A 20121121	WO2011EP00685 20110215; DE20101009050 20100223	EMB SYSTEMS AG	F03D11/02; F03D1/00	Positioning device for a wind power station and wind power station

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CN202433004U U 20120912	CN20112529409U 20111217	CHONGQING GENERAL INDUSTRY GROUP CO LTD	G01B21/00; F03D11/00; G01B21/22	Positioning device of zero signboard of wind power generating blade
DE202012006622U U1 20120920	DE201220006622U 20120601	KUPKE MARTIN [DE]	F03G3/00; F03D9/02; F03G6/00; H02J15/00	Potentialspeicher f³r elektrische Energie
KR20120095248 A 20120828	KR20110014799 20110218	CONVERTEAM TECHNOLOGY LTD [GB]	H02J3/38; F03D9/00; H02M3/28	POWER COLLECTION AND TRANSMISSION SYSTEMS
KR101168031B B1 20120727	KR20110017173 20110225	SAMSUNG HEAVY IND [KR]	H02J3/38; F03D9/00; H02M7/48	POWER CONVERTER AND WIND TURBINE SYSTEM INCLUDING THE SAME
KR101168030B B1 20120727	KR20110017171 20110225	SAMSUNG HEAVY IND [KR]	H02J3/38; F03D9/00; H02M7/48	POWER CONVERTER AND WIND TURBINE SYSTEM INCLUDING THE SAME
WO2012128414 A1 20120927	KR20110025010 20110321	YUYANG DNU CO LTD [KR]; KIM SANG OK [KR]; KIM BYUNG OH [KR]; CHO MIN JIN [KR]; KIM DONG SIK [KR]; KANG GU YOUN [KR]	H05B37/02; F03D9/00; H02H7/18; H02J7/35	POWER DISTRIBUTION APPARATUS USING CONVERGENCE OF SMART LED LIGHTING AND NEW RENEWABLE ENERGY AND DRIVING METHOD THEREOF, AND PROTECTIVE CIRCUIT FOR POWER DISTRIBUTION APPARATUS USING CONVERGENCE OF SMART LED LIGHTING AND NEW RENEWABLE ENERGY AND DRI
CN102758732 A 20121031	CN20121150994 20120515	UNIV NORTH CHINA ELEC POWER	F03D9/00; F03D11/00; F21S9/04	Power generating and monitoring integrated aerial wind power generation system
AU2011228893 A1 20121108	GB20100004654 20100319; WO2011GB00392 20110318	RELENTLESS POWER LTD	F03B13/24; F03B13/26; F03B17/02; F03D9/00	Power generating apparatus and method

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US2012285150 A1 20121115	WO2010JP06977 20101130; WO2010JP06981 20101130; WO2011JP58647 20110405; WO2011JP71674 20110922; WO2011JP71676 20110922; WO2011JP71677 20110922; WO2011JP06695 20111130	MITSUBISHI HEAVY IND LTD [JP]	F15B13/00	POWER GENERATING APPARATUS OF RENEWABLE ENERGY TYPE
US2012255291 A1 20121011	WO2011JP58647 20110405; WO2011JP71674 20110922	MITSUBISHI HEAVY IND LTD [JP]	F03D11/02; F03D1/00	Power generating apparatus of renewable energy type
KR20120126045 A 20121120	KR20120110549 20121005		F03D7/00; F03D1/00; F03D7/04; F03D11/00	System and Method of Measuring Parameters of Wind Power Genernator Blade including Separated Power Genernator
US2012257994 A1 20121011	WO2011JP58646 20110405	MITSUBISHI HEAVY IND LTD [JP]	F04B17/02; B23P11/00	POWER GENERATING APPARATUS OF RENEWABLE ENERGY TYPE AND METHOD FOR INSTALLING HYDRAULIC PUMP

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WO2012164789 A1 20121206	WO2011JP03005 20110530; WO2011JP03000 20110530; WO2011JP03002 20110530; WO2011JP06694 20111130	MITSUBISHI HEAVY IND LTD [JP]; HAMANO FUMIO [JP]; HOKAZONO SHIGERU [JP]; NAKAYAMA KEN [JP]; TSUTSUMI KAZUHISA [JP]; BALDINI FRANCESCO [GB]; CALDWELL NIALL [GB]; DUMNOV DANIIL [GB]; ABRAHAMS DANIEL [GB]; LAIRD STEPHEN [GB]	F03D9/00; F03D7/02; F03D11/02	POWER GENERATING APPARATUS OF RENEWABLE ENERGY TYPE AND OPERATION METHOD THEREOF
EP2486274 A2 20120815	GB20100020264 20101130; GB20100020263 20101130; WO2010JP06977 20101130; WO2010JP06978 20101130; WO2010JP06979 20101130; WO2010JP06982 20101130; WO2010JP06981 20101130; WO2011JP00920 20110218; WO2011JP00917 20110218; WO2011JP03002 20110530; WO201	MITSUBISHI HEAVY IND LTD [JP]	F03D9/00; F03D7/02	POWER GENERATING APPARATUS OF RENEWABLE ENERGY TYPE AND OPERATION METHOD THEREOF
WO2012096474 A2 20120719	KR20110003051 20110112	KIM HYUNG JUN [KR]	F03D9/00; F03D9/02; F03G7/00	POWER GENERATING APPARATUS USING AIR PRESSURE

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CN202360301U U 20120801	CN20112421257U 20111031	DONG XUE	F03D9/00	Power generating device for cooling towers
WO2012093896 A2 20120712	KR20110001364 20110106; KR20120001958 20120106	KIM DUK BO [KR]; KIM DA WON [KR]	F03D5/00; F03D1/04; F03D3/04; F03D9/00; F03D11/00; F24J2/00; H02K57/00	POWER GENERATING DEVICE HAVING LOW-RESISTANCE WIND INDUCTIVE DEVICE, AND HYBRID GENERATING SYSTEM USING WIND POWER, SUNLIGHT, AND EXERCISE EQUIPMENT
US2012190497 A1 20120726	US201213437642 20120402; US20110918705 20110503; WO2010US29077 20100329; US20090251844P 20091015	AIRGENESIS LLC [US]	F16H15/10	Power Generation Coupler
CN102795113 A 20121128	US201113116340 20110526	LUU VO HOANG	B60L8/00; F03D9/00	Power generation device
CN102734072 A 20121017	CN20111102046 20110414	YAOZHONG LI	F03D9/00; F03D1/00; F03D1/04; F03D1/06; F03D3/00	Power generation device for self-promoted wind power by air collected in material cavity through using pregnant method
CN202468145U U 20121003	CN20122085931U 20120309	GUXUE SONG	F03B13/00; F03D9/00	Power generation device using natural running water or wind power as power
KR20120074926 A 20120706	KR20100136917 20101228	RES INST IND SCIENCE & TECH [KR]	F03G6/06; F03D9/00; F03G7/04	POWER GENERATION DEVICE USING WASTE HEAT
CN202468164U U 20121003	CN20112525098U 20111215	JINHAN LI	F03D9/00; F03D11/04	Power generation device utilizing secondary wind generated by high-speed vehicle on expressway
CN102777324 A 20121114	CN20111124257 20110512	WENFENG YOU	F03D9/00; F03D3/06; F03D7/06	Power generation device with automatically adjustable vertical-axis wind turbine blade

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US2012169061 A1 20120705	US201213414692 20120307; US20090560387 20090915	LEE TAI KOAN [US]; LEE HAE SOOK [US]	F03D9/00; H02K47/20	Power Generation System, Power Generator and Method Thereof
CN102689823 A 20120926	CN20121182639 20120531	ZHEJIANG ZHONGWU JIUDING TECHNOLOGY INCUBATOR CO LTD; ZONGXI FAN	B66B1/06; B66B11/04; F03D7/06; F03D9/00	Power generation type elevator
GB2492040 A 20121219	GB20100010222 20100617; GB20110008909 20110526; WO2011GB51122 20110616	WILSON RONALD DAVENPORT [GB]	F03D1/04	Power generator
KR20120119302 A 20121031	KR20110037141 20110421	CHOE SI SU [KR]	F03D9/00; F03B7/00; F03B13/00; F03D3/00	POWER GENERATOR
DE102012101928 A1 20120913	DE20111001122 20110307; DE201210101928 20120307	SMA SOLAR TECHNOLOGY AG [DE]	H02J3/14; F03D7/00; H02J3/38; H02N6/00	Power grid decentralized stabilizing method, involves minimizing feed-in power of power grid decentralized stabilizing system in relation to actual maximum generator power according with requirements for feed-in power
WO2012153185 A1 20121115	US201161484800P 20110511	CONDOR WIND ENERGY LTD [GB]; CARUSO SILVESTRO [GB]; JAKUBOWSKI MARTIN [GB]; CAIOLI LUCIANO [GB]	F03D7/04; F03D1/06; F03D7/02	POWER MANAGEMENT SYSTEM

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DE102011089588 A1 20121115	DE20111089588 20111222	SIEMENS AG [DE]	G01R21/06; F03D7/00; G05F1/67; H02J1/14; H02J13/00; H02N6/00	Power monitoring device for determining electric power of medium voltage network, has power generation system for feeding electric power into network, and software program including controller that reduces power injected to network
US2012265356 A1 20121018	WO2011JP59231 20110414	MITSUBISHI HEAVY IND LTD [JP]	G05D7/06	POWER OUTPUT LEVELING METHOD AND APPARATUS FOR WIND TURBINE GENERATING FACILITY
DE102011108379 A1 20121031	DE20111018952 20110429; DE201110108379 20110722	FISCHER INA [DE]	F03D9/00; F03D9/02	Power plant for use in power ship for converting wind energy into mechanical power using wind power machine, has sail part moved in water, and float body supporting repelling unit that is movably driven in water for setting net power
US2012235415 A1 20120920	US201113199943 20110913; US20100403348P 20100913	EBARA INTERNAT CORP [US]	F03B13/00; F01K25/08; F03D1/04; F17C13/00	Power recovery system using a rankine power cycle incorporating a two-phase liquid-vapor expander with electric generator
CN202483812U U 20121010	CN20122083044U 20120307	SUN LIQING	F03D11/02; F03D9/00	Power supply amplification device for wind driven power generator
CN202520484U U 20121107	CN20122161900U 20120417	WUXI TONGCHUN NEW ENERGY TECH	F03D9/02	Power supply device capable of applying wind and photovoltaic hybrid power generation to seismic forecasting instrument
CN102635509 A 20120815	CN20121112155 20120417	WUXI TONGCHUN NEW ENERGY TECH	F03D9/02; H02J7/00	Power supply device complementarily applying wind power generation and photovoltaic power generation on seismic telemetry instrument

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WO2012136727 A1 20121011	DE201110001786 20110404	WOODWARD KEMPEN GMBH [DE]; EICHLER MARKUS [DE]; NOWAK HANS-GEORG [DE]; HITPAS MARIANNE [DE]	H05K7/14; F03D9/00; H02J3/38; H02M7/00	POWER SWITCHGEAR CABINET OF A DEVICE FOR PRODUCING ELECTRIC ENERGY
CN202381259U U 20120815	CN20112466327U 20111122	DENGRONG ZHOU; JIAN ZHOU	F03D9/00; F03D1/06; F03D11/00	Power tower turbine turbofan operating structure
TW201237264 A 20120916	TW20110108414 20110311	IND TECH RES INST [TW]	F03D5/00; F03D11/02	Power transmission and wind turbine having the same
CN202560485U U 20121128	CN20122173083U 20120420	WENZHOU OUTELAI TECHNOLOGY CO LTD	F03D11/02; F03D11/00; F16H37/00	Power transmission system of vertical-shaft type wind driven generator
AU2011238163 A1 20121115	EP20100003691 20100406; WO2011EP01672 20110404	GE ENERGY POWER CONVERSION TECHNOLOGY LTD	H02J3/38; F03D9/00	Power transmissions systems
CN202483801U U 20121010	EP20100003576 20100331	WINERGY AG	F03D11/00; F16H1/22	Power-branching transmission mechanism for wind power equipment
WO2012116532 A1 20120907	CN20112052626U 20110302	ZHAO JILIANG [CN]	H02J3/38; F03D9/00	POWER-GENERATING APPARATUS
CN102606400 A 20120725	CN20121111395 20120416	SHANGHAI GHREPOWER GREEN ENERGY CO LTD	F03D7/04	Power-loss feathering control system for permanent magnet pitch variation wind driven generator set
CN102562495 A 20120711	CN20111036721 20110130	ZHENDUO WANG	F03G3/04; F03D9/00; H02N6/00	Power-storage generating system utilizing sand as medium
US2012248256 A1 20121004	US201213413247 20120306; US20090424617 20090416	FRONTIER WIND LLC [US]	B64C3/58; F03D1/06; F03D11/00; G01K13/00; G01L13/00; G01W1/00; G06F17/00; G06F19/00	Pressure Based Load Measurement
CN202294094U U 20120704	CN20112239183U 20110708	JIANPING ZHU	B60C5/20; F03D9/00	Pressure energy recovery tire
CN202370765U U 20120808	CN20112543218U 20111222	QINGBO MENG	F03D11/04	Prestressed anchor bolt

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CN102536680 A 20120704	US20100974506 20101221	GEN ELECTRIC [US]	F03D11/00	Pre-stressed stiffening system for a wind turbine generator frame
JP2012132381 A 20120712	JP20100285892 20101222	HAMASHITA HIROSHI	F03D3/06; F03D9/00; F03D9/02; F03D11/04	PRIVATE POWER GENERATOR
WO2012136277 A1 20121011	EP20110161707 20110408	SIEMENS AG [DE]; BJERGE MARTIN HUUS [DK]; FRYDENDAL IB [DK]; HOEGH GUSTAV [DK]; KRISHNA RAMAKRISHNAN [DK]; LAURBERG HANS [DK]	F03D7/04	PROACTIVE CONTROL OF THE OPERATION OF A WIND TURBINE
ES2392132T T3 20121204	EP20090180845 20091229	KYOWA CO LTD [JP]; SUMITOMO CORP [JP]	F03D1/00; B63B21/26	Procedimiento para construir un cimiento para un sistema de generaci¾n de energŸa e¾lica
ES2393369T T3 20121220	DE200610060323 20061220	NORDEX ENERGY GMBH [DE]	F03D7/00; F03D7/02; F03D7/04; F03D9/00; H02P9/10	Procedimiento para el funcionamiento de una planta de energŸa e¾lica en caso de cambios bruscos de tensi¾n en la red
ES2392881T T3 20121214	DE200610034251 20060721; WO2007EP05956 20070705	REPOWER SYSTEMS AG [DE]; REPOWER SYSTEMS SE [DE]	F03D7/00; F03D7/04; F03D11/00	Procedimiento para la operaci¾n de una instalaci¾n de energŸa e¾lica
RO127838 A2 20120928	RO20110000218 20110314	IPA S A SOCIETATE COM A PENTRU CERCETARE [RO]	F03D3/00	PROCESS AND SYSTEM FOR COLLECTING AND CONVERTING WIND ENERGY
RO127839 A2 20120928	RO20110000219 20110314	IPA S A SOCIETATE COM A PENTRU CERCETARE [RO]	F03D3/00	PROCESS AND SYSTEM FOR MAKING MULTI-SYSTEM WIND FARMS FOR COLLECTING WIND ENERGY
RO127977 A2 20121129	RO20110000486 20110520	BIDULESCU GEORGE DAN [RO]	F03D9/02	PROCESS FOR EFFICIENTLY USING THE WIND ENERGY
CN102644562 A 20120822	CN20121146988 20120514	JIANGSU LONGYUAN ZHENHUA MARINE ENGINEERING CO LTD	F03D11/04	Process for installing impeller assembly elephant foot balance bracket of offshore wind power field

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CN102562472 A 20120711	CN20111341669 20111023; CN20121022576 20120105	UNIV JILIANG CHINA	F03D9/00	Process for utilizing wind force generated during running of vehicles on expressways to generate electric power
WO2012171617 A1 20121220	DE201110077609 20110616	REPOWER SYSTEMS SE [DE]; BENDEL URS [DE]	F03D1/06	PRODUCTION OF A ROTOR BLADE SHELL
WO2012175406 A2 20121227	DE20111078016 20110622	WOBBEN PROPERTIES GMBH [DE]; KAPITZA JAN [DE]; ALBERS KARSTEN [DE]; HORN GUENTHER [DE]	B28B7/22; B28B7/00; B28B17/00; B28B21/02; B28B21/82; B28B23/00; E04H12/12; F03D11/04; G01B11/24	PRODUCTION OF A TOWER
CN202500719U U 20121024	CN20112558712U 20111228	UNIV YANSHAN	F03D7/00	Proportional valve controlled hydraulic motor independent variable propeller pitch system
CN102705177 A 20121003	CN20121180485 20120604	CHINA MCC17 GROUP CO LTD	F03D11/00	Protection method and device for blade transportation of wind driven generator
CN102606418 A 20120725	CN20122090050U 20120312; CN20121099041 20120406	SHANDONG SIBATE ELECTRIC DRIVE TECHNOLOGY CO LTD	F03D11/00	Protective cover of wind turbine or wind power generation equipment
CN202431460U U 20120912	CN20122010677U 20120111	CHINA MCC17 GROUP CO LTD	F03D11/00	Protective saddle of tower drum of wind driven generator
CN202391664U U 20120822	CN20112556471U 20111228	WIPO WIND POWER WUXI CO LTD	F03D11/00	Pull-off preventing fixing device of blade
WO2012119758 A2 20120913	DE20111013329 20110308	ROENTDEK HANDELS GMBH [DE]; SCHMIDT-BOECKING HORST [DE]; LUTHER GERHARD [DE]	F03B3/10; F03B13/06; F03D9/02; H02J15/00	PUMPED-STORAGE POWER PLANT
JP2012154187 A 20120816	JP20110011527 20110124	CHOSHOIN YASUHISA	F03D1/06; F03D9/00; F03D9/02	PUMPING SYSTEM USING WIND FORCE AND ELECTRIC MOTOR

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DE102011106040 A1 20121227	DE201110106040 20110625	DADGAR ARMIN [DE]	E02B9/00	Pumpspeicherkraftwerk
CN102536688 A 20120704	CN20121032190 20120214	JIANGSU MARINE LONGYUAN WIND POWER GENERATION CO LTD	F03D11/04	Rabbit ear type assembling and mounting process for offshore wind driven generation units
GB2488561 A 20120905	GB20110003493 20110301	VESTAS WIND SYS AS [DK]	H01Q17/00; F03D11/00	Radar absorbing material compatible with lightning protection systems
DE202011004732U U1 20121024	DE201120004732U 20110401	LUCKY DAVID EVINCE [DE]	F03D5/00; F03D9/00	Raddreher mit Luftpotential-Kraft
CN102635516 A 20120815	CN20121149461 20120515	NANJING WIND POWER TECHNOLOGY CO LTD	F03D11/00	Radial wind wheel locating device
CN102562484 A 20120711	CN20121012368 20120116	GUODIAN UNITED POWER TECH CO [CN]	F03D11/00; F28D15/02	Radiating device of wind power generation water cooling system and water cooling system
CN102619784 A 20120801	CN20111030543 20110128	TIANJIN SANXIN SUNSHINE COMPANY	F04D29/32; F03D11/00; F04D29/38	Radiating fan for wind driven generator
CN102588218 A 20120718	CN20111020240 20110118	TIANJIN SANXIN SUNSHINE COMPANY	F03D11/00; B01D45/08; E06B7/086	Radiating louver at bottom of engine room of 2MW wind power generating unit
CN202391655U U 20120822	CN20112531026U 20111216	ZAIJUN PENG	F03D9/00; F03D5/04	Rail wind-sail generator
CA2775470 A1 20121125	US201113115209 20110525	HAMILTON SUNDSTRAND CORP [US]	B64D41/00; B64D25/00; F01D25/28; F03D9/00; F03D11/04	RAM AIR TURBINE DEPLOYMENT ACTUATOR
GB2492206 A 20121226	US201113167801 20110624	HAMILTON SUNDSTRAND CORP [US]	B64D41/00; F03D9/00	Ram air turbine governor
US2012237347 A1 20120920	US201113051213 20110318	HAMILTON SUNDSTRAND CORP [US]	F03D11/04	Ram Air Turbine with Controlled Vibrational Resonances
CN102650270 A 20120829	CN20111048209 20110228	SHANGHAI QIMOU ENERGY TECHNOLOGY DEV CO LTD	F03D11/04	Rapid mounting method of wind driven generator on sea

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WO2012089213 A1 20120705	US20100980700 20101229	VESTAS WIND SYS AS [DK]; HAJ-MAHARSI MOHAMED [US]; SINGH SUNITA [US]	H02J3/18; F03D9/00; H02J3/36	REACTIVE POWER MANAGEMENT FOR WIND POWER PLANT INTERNAL GRID
AU2012200304 A1 20120816	CN20111033986 20110131	SINOVEL WIND GROUP CO LTD [CN]	F03D7/00; F03D11/00; H02P7/32	Reactive voltage control system and method for wind power field of double-fed wind power-generating unit
CN102767474 A 20121107	CN20121279205 20120806	ELEC POWER RES INST GUANGDONG; CHINA ELECTRIC POWER RES INST	F03D7/02	Real-time assessment method and system for active power for wind power
CN202391650U U 20120822	CN20122002585U 20120105	SHANDONG ELEC POWER RES INST	F03D7/00	Real-time remote monitoring system for wind power station group
TWM437896U U 20120921	TW20120203012U 20120220	CHEN CHUNG-HSIEN [TW]	F03D9/02	Rear-mounted wind turbine for transportation vehicles
WO2012113287 A1 20120830	CN20112042706U 20110221	ZHOU YUEPING [CN]	F03B13/00; B64C33/02; F03B13/18; F03D9/00	RECIPROCAL FLAPPING WING FLUID ENERGY TRANSFORMATION DEVICE
WO2012146158 A1 20121101	CN20112145464U 20110424; CN20111114733 20110424; CN20122145598U 20120410; CN20121101117 20120410	LUO CONGGUI [CN]; QIU HAOWEI [CN]	F03D5/04; F03B13/00; F03B17/02; F03D9/00	RECIPROCATING UNLOADING AND LOADING KITE AND KITE-DRIVING WORKING MECHANISM THEREOF, POWER GENERATION METHOD, AND VEHICLE OR BOAT TRAVELING METHOD
US2012235417 A1 20120920	US201113224853 20110902; US201161465353P 20110318	ARNTZ FLOYD [US]	F03D9/00; F03B13/10; F03D5/00	Reciprocating Wind-powered Transducer Employing Interleaved Airfoil Arrays
CN102562458 A 20120711	JP20100293613 20101228	SUMITOMO HEAVY INDUSTRIES [JP]; JAPAN STEEL WORKS LTD [JP]	F03D7/04	Reduction gear used in wind power generating equipment

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US2012321473 A1 20121220	DE201010010958 20100310; WO2011EP52726 20110224	SSB WIND SYSTEMS GMBH & CO KG [DE]	F03D7/04; F03D1/06; F03D11/00	REDUNDANT PITCH SYSTEM
WO2012130247 A1 20121004	DK20110070146 20110330	VESTAS WIND SYS AS [DK]; DANIELSEN NIELS ERIK [DK]	F03D9/00; H02J9/06	REDUNDANT POWER SUPPLY ARCHITECTURE
CN202348594U U 20120725	CN20112176766U 20110530	WUHAN AOV ENERGY TECHNOLOGY CO LTD	F03G6/06; F03D1/02	Reflection condenser unit, solar-wind energy integrated generating unit
WO2012137370 A1 20121011	WO2011JP58647 20110405; WO2011JP68284 20110810	MITSUBISHI HEAVY IND LTD [JP]; AKASHI YU [JP]; MATSUO TAKESHI [JP]; SATO SHINSUKE [JP]; KAMEDA TAKURO [JP]; MORII YOSHIYUKI [JP]; HAMANO FUMIO [JP]	F03D9/00; F03D11/00	REGENERATED ENERGY ELECTRICITY GENERATION DEVICE
CN102797628 A 20121128	CN20121140468 20120509	JIANGSU HUINENGDA ELECTRICAL CO LTD	F03D7/00; H05K5/00	Regular hexagonal prism wind energy pitch control cabinet body
FR2976643 A1 20121221	FR20110001875 20110617; FR20110003135 20111014	MORMINA JACQUES JOSEPH [FR]	F16F15/31; F03D7/04	REGULATEUR DE VITESSE ET ACCUMULATEUR D'ENERGIE MECANIQUE A INERTIE VARIABLE
FR2970526 A1 20120720	FR20110050436 20110119	OKWIND [FR]	F03D7/00; F03B15/00	REGULATEUR DIFFERENTIEL POUR EOLIENNE
US2012273617 A1 20121101	EP20090177783 20091202; WO2010EP68521 20101130	BLADENA APS [DK]	B64C3/18; B23P11/00; B23P17/04; B32B1/06; F03D11/00	REINFORCED AIRFOIL SHAPED BODY
CN202348589U U 20120725	CN20112290311U 20110811; CN20112392916U 20111014	YUNHE DENG	F03D11/04	Reinforced concrete prefabricated vertical axis wind driven generator tower column

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JP2012176542 A 20120913	JP20110040585 20110225	MITSUBISHI HEAVY IND LTD [JP]	B32B5/00; B29C43/20; B29C70/10; F03D11/00	REINFORCED PLASTIC STRUCTURE, METHOD OF MANUFACTURING REINFORCED PLASTIC STRUCTURE, STRUCTURE, WINDMILL BLADE AND WINDMILL
CN102562483 A 20120711	US20100972841 20101220	GEN ELECTRIC [US]	F03D11/00	Reinforcement system for wind turbine tower
US2012218632 A1 20120830	US201213401565 20120221; US20100723333 20100312	CATCH THE WIND INC [US]	G02B23/16	REMOTE LENS UNIT ASSEMBLY FOR LASER DOPPLER VELOCIMETER
WO2012176294 A1 20121227	JP20110138031 20110622	MITSUBISHI HEAVY IND LTD [JP]; ICHINOSE HIDEKAZU [JP]	H04L12/28	REMOTE MONITORING DEVICE, POWER GENERATION SYSTEM, AND REMOTE MONITORING DEVICE CONTROL METHOD
CN202510279U U 20121031	CN20122144318U 20120409	HUADIAN NEW ENERGY DEV CO LTD	F03D7/00	Remote monitoring system for wind farm
TW201241302 A 20121016	DE201010040596 20100910	WOBBEN ALOYS [DE]	F03D1/06	Removable rotor blade tip
EP2486273 A1 20120815	GB20100020264 20101130; WO2011JP00917 20110218; WO2011JP06692 20111130	MITSUBISHI HEAVY IND LTD [JP]	F03D9/00; F03D11/02	RENEWABLE ENERGY EXTRACTION DEVICE SUCH AS A WIND TURBINE WITH HYDRAULIC TRANSMISSION
WO2012137371 A1 20121011	WO2011JP58647 20110405	MITSUBISHI HEAVY IND LTD [JP]; KAMEDA TAKURO [JP]; AKASHI YU [JP]; MATSUO TAKESHI [JP]; SATO SHINSUKE [JP]; MORII YOSHIYUKI [JP]	F03D11/00	RENEWABLE ENERGY GENERATOR

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WO2012155970 A1 20121122	WO2011EP58071 20110518	YOUNIVERSE UNIP LDA [PT]; BERNARDES PEDRO [PT]	F03D3/00; B60K16/00; F03D3/04; F03D9/00; F03D9/02	RENEWABLE ENERGY SELF-CHARGING SYSTEM
US2012230827 A1 20120913	US201213476297 20120521; US20080340154 20081219; US20080045043P 20080415	FRONTIER PRO SERVICES LLC [US]	F03D1/06; B23P6/00; F03D11/00	REPAIR OF ROTOR BLADE ROOTS
WO2012140278 A1 20121018	WO2011ES00134 20110414	MANTENIMIENTOS ELECTRICOS CAMPO DE AVIACION S L [ES]; OLEA PORCEL FRANCISCO [ES]; AVILA ESPIGARES JOSE ANTONIO [ES]	F03D1/00	REPAIR/CLEANING SCAFFOLDING TOWER FOR WIND TURBINES
CN202531790U U 20121114	CN20122103345U 20120319	TIANJIN XIANGWEI TRANSMISSION LTD	F16H57/021; F03D11/02; F16H57/023	Replacing and maintaining structure of wind power gearbox output shaft
CA2762876 A1 20120704	EP20110150106 20110104	SIEMENS AG [DE]	F16N31/00; F03D11/00; F16C33/66; F16N19/00	REPOSITORY FOR A LUBRICANT
CN102635503 A 20120815	CN20111039019 20110211	HONGSHAN GE	F03D9/00; B60L8/00; B63H21/17; F03B13/00	Resistance rectifying power cylinder channel
CN102758737 A 20121031	CN20121252235 20120719	JIANGSU YUANZHONG DC MICROGRID CO LTD	F03D9/00; F03D3/06; F03D11/00; H02K7/14; H02K7/18	Resistance-lift-type compound medium magnetic suspension wind driven generator
CN102758736 A 20121031	CN20121252234 20120719	JIANGSU YUANZHONG DC MICROGRID CO LTD	F03D9/00; F03D3/06; F03D11/00; H02K7/14; H02K7/18	Resistance-lift-type compound medium magnetic suspension wind driven generator
CN202417826U U 20120905	CN20112533869U 20111220	LIANGBI ZHAO; JI ZHAO	F03D9/00; F03G7/00	Resonance energy power generation system
CN202509421U U 20121031	CN20122107790U 20120321	TECHEYE OPTICS TECHNOLOGIES CO LTD	E01F9/06; F03D9/00; F21S9/04	Road reflective marking

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WO2012142420 A2 20121018	US201161576189P 20111215; US201161475089P 20110413	ABC NATIONWIDE INC [US]; BEHNIA LADAN [US]; YAZDANSHENAS ALIREZA [US]	F03D9/00; F03D9/02; F03D11/00; F03G7/00	ROADWAY ENERGY HARVESTING
WO2012153959 A2 20121115	KR20110043654 20110509	HONG JONG SU [KR]	F03D9/02; H02J7/35	ROADWAY POWER-GENERATING APPARATUS
US2012282100 A1 20121108	US201213544205 20120709; JP20050363661 20051216; JP20050363662 20051216; JP20060087829 20060328; US20080086501 20080613; WO2006JP321698 20061031	NTN TOYO BEARING CO LTD [JP]	F03D11/00; F16C33/46	ROLLER BEARING AND MAIN SHAFT SUPPORT STRUCTURE OF WIND-POWER GENERATOR
CN202560455U U 20121128	CN20122151293U 20120412	XUEYUN WANG	F03D1/06	Roller type windmill
JP2012172623 A 20120910	JP20110037001 20110223	NTN TOYO BEARING CO LTD [JP]	F03D11/00	ROLLING BEARING AND WIND TURBINE GENERATOR
CN202301691U U 20120704	CN20112382008U 20111010	UNIV TONGJI	F16F7/02; F03D11/00; F16F15/08	Rolling shaft damping device and wind power generation high tower using same
CN202417829U U 20120905	CN20112546141U 20111222	LUOYANG WEIQI SOLAR ENERGY TECHNOLOGY CO LTD	F03D9/00; F01D15/10; H02N6/00	Roof energy supply system
TWM441036U U 20121111	TW20120212173U 20120625	TU YI-RU [TW]; HUANG QIU-YUAN [TW]; ZHENG SHOU-HONG [TW]; LAI YI-CHEN [TW]	F03D9/00; E04B7/18	Roof ventilator power generation device

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DK201270257 A 20121121	US201113112148 20110520	GEN ELECTRIC [US]	F03D1/06	ROOT FLAP FOR ROTOR BLADE IN WIND TURBINE
CN202332116U U 20120711	CN20112434298U 20111031	HUI ZHANG	G09F9/33; F03D9/00; F21S9/03; F21S9/04; H02J9/04	Rotary automatic subtitle display structure for wind-solar hybrid street lamp
JP2012154036 A 20120816	JP20110011575 20110124	NTN TOYO BEARING CO LTD [JP]	E02F9/12; F03D11/00; F16C33/58	ROTARY BEARING
EP2532891 A1 20121212	JP20090296146 20091225; WO2010JP73349 20101224	MITSUBISHI HEAVY IND LTD [JP]	F03D11/00; F03D1/06	ROTARY BLADE OF WINDMILL AND METHOD OF MANUFACTURING ROTARY BLADE OF WINDMILL
JP2012154239 A 20120816	JP20110013692 20110126	KUMIKAWA TEKKOSHO KK	F03D3/06; F03D11/00	ROTARY BODY
WO2012111913 A2 20120823	KR20110013580 20110216	LEE SEUNG GEUN [KR]	F03D1/06; F03D11/00	ROTARY BODY FOR A WIND POWER GENERATING APPARATUS
CN202545114U U 20121121	CN20122109266U 20120321	UNIV CHONGQING	F03D7/06	Rotary radius adjusting mechanism for paddles of vertical shaft wind-driven generator
CN202381262U U 20120815	CN20112561456U 20111229	QINGDAO XINGGUANG WIND POWER EQUIPMENT TECHNOLOGY CO LTD	F03D9/00; F03D1/00; F03D7/04	Rotary shaft type rear wing mechanism of horizontal shaft wind driven generator
CN102619880 A 20120801	CN20121089408 20120330	HERION ADMINISTRATION CONSULTING QINGDAO CO LTD	F16C33/76; F03D11/00	Rotary support sealing type plug and sealing method
TW201237262 A 20120916	TW20110108019 20110310	TAIWAN HODAKA IND CO LTD [TW]	F03D11/00	Rotary wheel structure of fixed blades in wind power generator
CN102536811 A 20120704	CN20111419884 20111211	JINBO GAO; HUIYING GUO	F04C15/00; F03D3/00; F03D9/00; F04C2/10	Rotary wind-driven lifting machine with two corner pistons
US2012243980 A1 20120927	US201113071673 20110325	FRONTIER WIND LLC [US]	F03D11/00; B01D53/02; B01D53/26; F03D11/04	Rotatable Dry Air Supply

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KR101163173B B1 20120706	KR20120002388 20120109	WON BAIK HEE [KR]; LEE HEE HYUNG [KR]; INDUK ELECTRIC POWER CO LTD [KR]	F03D11/00	ROTATING AIRFOIL STRUCTURE FOR REDUCTION OF AIR RESISTANCE IN AEROGENERATOR
CN102611224 A 20120725	JP20110009665 20110120; JP20110009666 20110120; JP20110118020 20110526	YASKAWA DENKI SEISAKUSHO KK [JP]	H02K1/27; F03D9/00; H02K15/03	Rotating electric machine and wind power generation system
TW201241457 A 20121016	TW20110112925 20110414	UNIV CHUNG YAN CHRISTIAN [TW]	G01R31/34; F03D11/00	Rotating electrical machine anomaly detecting method and apparatus, and wind generating system
CN202384861U U 20120815	JP20100227579 20101007	YASKAWA DENKI SEISAKUSHO KK [JP]	H02K1/22; F03D9/00	Rotating motor and wind power generating set
CN102705160 A 20121003	CN20121170109 20120528	SINOVEL WIND GROUP JIANGSU CO LTD	F03D7/00	Rotating speed control method and device of wind generation set
CN102635499 A 20120815	CN20121114448 20120418	CSIC CHONGQING HAIZHUANG WINDPOWER EQUIPMENT CO LTD	F03D7/00	Rotational speed and torque control device and method of wind turbine generator set
WO2012118797 A2 20120907	US201161447404P 20110228	UNIV MICHIGAN STATE [US]; MUELLER NORBERT [US]; PIECHNA JANUSZ [PL]	H04L5/00; H04B7/14; H04W72/04; H04W72/12	ROTOR APPARATUS
WO2012119771 A2 20120913	DE201110013547 20110310	VOITH PATENT GMBH [DE]; HENNES PATRICK [DE]; SAUER ALEXANDER [DE]	F03D1/06	ROTOR ARRANGEMENT FOR AN AXIAL TURBINE AND A METHOD FOR MOUNTING SAME
CN102562433 A 20120711	US20100946963 20101116	GEN ELECTRIC [US]	F03D1/06	Rotor blade assembly having an auxiliary blade
KR20120084434 A 20120730	KR20110005797 20110120	SPCK CO LTD [KR]	F03D1/06; F03D11/00	ROTOR BLADE FOR A WIND POWER PLANT

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CN102606384 A 20120725	DE201010053369 20101203	EADS DEUTSCHLAND GMBH	F03D1/06; F03D11/00; H01Q1/22; H01Q15/14	Rotor blade for a wind turbine, and a combination of a radar station and a wind turbine
DE102011011084 A1 20120816	DE201110011084 20110211	NORDOX ENORGY GMBH [DE]	F03D1/06	Rotor blade for wind energy plant, has planar elements supported in retracted position of leaf magnification unit, and support arms guided in or at main portion and rearwardly extended and attached at posterior ends of planar elements
DE102011012965 A1 20120906	DE201110012965 20110304	WINDTECHNIK AG DEUTSCHE [DE]	F03D1/06	Rotor blade for wind energy plant, has transition section formed between blade root and blade section and comprising front edge and blunt rear edge, and aerodynamic element i.e. plate, arranged at blunt rear edge of transition section
DE102011076082 A1 20121122	DE20111076082 20110518	UNIV CHEMNITZ TECH [DE]	F03D1/06; B29C65/02; B29C70/00; F03D3/06	Rotor blade for wind power plant, has rotor blade shell structure, which is designed for passing air flow away from edges, where rotor blades are made of textile reinforced fiber
DK201270065 A 20120811	US201113024623 20110210	GEN ELECTRIC [US]	F03D1/06	Rotor blade for wind turbine
CN202370758U U 20120808	DK20100070331 20100714	HOSH WIND ENERGY DENMARK LTD	F03D11/00	Rotor blade for wind turbine
DE102011000627 A1 20120816	DE201110000627 20110210	PENN ANNELIESE [DE]	F03D3/06	Rotor blade for wind turbine with orthogonal rotor axis arranged in wind direction, has slat and main wing, where slat has round or oval cross section
EP2527642 A2 20121128	DE201110050661 20110526	L & L ROTORSERVICE GMBH [DE]; SPITZNER ENGINEERS GMBH [DE]	F03D1/06	Rotor blade of a wind turbine

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WO2012167891 A1 20121213	DE201110077402 20110610	REPOWER SYSTEMS SE [DE]; BENDEL URS [DE]; FUGLSANG-PETERSEN JOCHEN [DE]; OBERENDER KARL-HERMANN [DE]	F03D11/00; F03D1/06	ROTOR BLADE OF A WIND TURBINE, AND WIND TURBINE
DK201270273 A 20121126	US201113115604 20110525	GEN ELECTRIC [US]	F03D1/06	Rotor blade section and method for assembling a rotor blade for a wind turbine
NL2006654C C 20121023	NL20112006654 20110422	E J H KUIPERS B V	F03D1/06; F03D3/06	ROTOR BLADE WITH AN ASYMMETRICAL MAIN ELEMENT FOR CARRYING A FLAT WISE BENDING MOMENT.
FR2975138 A1 20121116	FR20110054139 20110512	CASTAGNOU BENOIT [FR]	F03D3/06	ROTOR D'EOLIENNE A AXE VERTICAL DU TYPE DARRIEUS ET EOLIENNE EQUIPEE D'UN TEL ROTOR
EP2513472 A2 20121024	WO2010FR52781 20101217; FR20090059112 20091217	CHAIGNEAU MARC ALBERT [FR]	F03D3/00; F03D3/02; F03D3/06	ROTOR ELEMENT FOR A POWER GENERATION SYSTEM AND POWER GENERATION SYSTEM USING SAME
US2012177502 A1 20120712	DE201120001101U 20110107; DE201120001452U 20110113	UNGER FRITZ [DE]	F03D1/06	ROTOR FOR A WIND POWER GENERATOR
KR20120099088 A 20120906	DE200910044667 20091126	SSB WIND SYSTEMS GMBH & CO KG [DE]	F03D7/02; F03D1/06; F03D11/02	ROTOR FOR A WIND POWER PLANT
AU2011246663 A1 20121129	DK20100070170 20100426; WO2011EP56065 20110415	SUZLON BLADE TECHNOLOGY B V [NL]	F03D1/06; F03D7/04	Rotor for a wind turbine

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US2012189445 A1 20120726	WO2010EP64699 20101003; DE200910045467 20091007	SSB WIND SYSTEMS GMBH & CO KG [DE]	F03D1/06; F03D7/02; F03D11/00	ROTOR FOR A WIND TURBINE
EP2511651 A1 20121017	EP20110003032 20110411	BAUMER INNOTEC AG [CH]	G01B11/16; F03D11/00	Rotor for a wind turbine and method for detecting deformation of a rotor blade
US2012207601 A1 20120816	US201113025236 20110211	WANG YU-HAN [TW]	F03D7/02	Rotor having a Lower Resistance or Drag
FR2972230 A1 20120907	FR20110000636 20110303	RAMPAL ETIENNE JEAN [FR]	F03D11/00; F01D5/30	Rotor hub assembly device for e.g. medium-sized wind turbine, has blades whose incidence articulation is achieved by direct rotation of foot of each blade on threading of spindle to recover centrifugal force of blade without axial locknut
EP2486269 A2 20120815	GB20090017414 20091005; WO2010GB01853 20101004	ELEMENTAL ENGINEERING AG [CH]	F03D3/06; F03D3/00; F03D11/04	ROTOR SYSTEM
RU2464443 C1 20121020	RU20110122098 20110531	FEDERAL NOE G AVTONOMNOE OBRAZOVATEL NOE UCHREZHDENIE VYSSHEGO PROFESSIONAL NOGO OBRAZOVANIJA URAL S [RU]	F03B13/00; F03D3/06	ROTOR WIND HYDRAULIC ENGINE
WO2012164045 A1 20121206	DE201110050777 20110531	DEWIND EUROP GMBH [DE]; NAEGLER THOMAS [DE]	F03D1/06	ROTOR WITH A CURVED ROTOR BLADE FOR A WIND POWER PLANT
DK1754886T T3 20121217	EP20050107564 20050817	GEN ELECTRIC [US]	F03D1/06; F03D11/00; F16F7/104	Rotorblad til en vindenergiturbine
DE202012005356U U1 20120710	DE201220005356U 20120530	STAUDE PETRA [DE]	F03D1/06	Rotorblatt f³r Windturbinen mit Profilen in Tandemanordnung

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DE202012101705U U1 20120716	DE201220101705U 20120509	WEIDEN FRANK VON DER [DE]	F03D1/06; F03D11/00	Rotorblatt mit einer Anwõrmvorrichtung
DE112010004168T T5 20121227	US20090256331P 20091030; WO2010EP51184 20100201	SIEMENS AG [DE]	F03D1/00; B66C1/16	Rotorblatt-Demontagesystem mit Bandbewegung
DE102011005448 A1 20120913	DE20111005448 20110311	SIEMENS AG [DE]	F03D1/06; F03D11/00	Rotorblattverstellanordnung und Verfahren mit kontaktloser elektrischer Energieversorgung und zugehörige Windenergieanlage
KR20120073158 A 20120704	US20100792203 20100602; US20100907967 20101019; US20090253925P 20091022; US20100404149P 20100927	CALVERLEY GRANT [US]	B64C31/02; F03D9/00	ROTORCRAFT POWER-GENERATION, CONTROL APPARATUS AND METHOD
DE202011103238U U1 20121011	DE201120103238U 20110708	REHAU AG & CO [DE]	F03D1/06	Rotorfl³gel f³r Windkraftwerke
DE102011008958 A1 20120719	DE201110008958 20110119	IMO HOLDING GMBH [DE]	F03D11/04	Rotorlager für eine Windkraftanlage
DE102011011164 A1 20120809	DE201110011164 20110204	IMO HOLDING GMBH [DE]	H02K7/08; F03D11/04; H02K5/173	Rotorlagerung für elektrische Maschine
CN202381253U U 20120815	CN20112331011U 20110906	QINGHUA TAN	F03D1/06; F03D3/06; F03D7/02; F03D7/06	Round blade windmill
CN202545129U U 20121121	CN20122128784U 20120330	YANGZHOU SHENZHOU WIND DRIVEN GENERATOR CO LTD	F03D11/00	Rudder of wind driven generator
TR201103966 A1 20121121	TR20110003966 20110423	AYGUEN MEHMET [TR]	F03D9/00; F03D7/00; F03D9/02	Rüzgar enerjisinden basinç ve elektrik enerjisi elde etme yöntemi

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TR201202142 A2 20120723	TR20120002142 20120227	BAF ENERJI ARASTIRMA GELISTIRME ELEK K MAKINA DANISMANLIK SANAYI TICARET LTD SIRKETI [TR]	F03D1/00	Rüzgar türbin sistemi için eksenel akili sabit miknatisli senkron jeneratör
TR201203414U U 20121022	TR20120003414U 20120326	IBIS HASAN HUESEYIN [TR]	F03D11/00; F03B11/00	Rüzgar ve su kuvveti ile çalisan türbin
KR20120126747 A 20121121	KR20110044777 20110512		F03D3/00; F03D5/04; F03D11/00; F03D11/02	WIND TURBINE GENERATING SYSTEM
CN102562448 A 20120711	CN20111425181 20111219	DONGFANG TURBINE CO LTD DONGFANG ELECTRIC CORP	F03D7/00	Safe feathering system of wind driven power generator
CN102748215 A 20121024	CN20121241596 20120712	GUODIAN NANJING AUTOMATION CO [CN]	F03D7/00	Safety chain system of wind generating set and fault rapid identification method thereof
CN102756801 A 20121031	CN20121245132 20120716	UNIV DALIAN OCEAN; YANNA ZHENG	B63H9/06; B63H21/17; F03D9/00	Sail propulsion-wind power comprehensive energy-saving ship
CN102678443 A 20120919	CN20111059326 20110314	PING LI	F03D3/00; F03D3/06	Sail type fan blade
CN102606404 A 20120725	CN20111223468 20110805	CHENGYOU HU	F03D9/00; F03D3/00; F03D3/06	Sail type wind power generation device
CN102588207 A 20120718	CN20121055263 20120306	JUNYE LI	F03D3/00	Sail wind motor without reverse wind resistance
WO2012149618 A1 20121108	WO2011BR00152 20110505	PIMENTEL DO REGO FREITAS LUIZ FERNADO [BR]	F03D3/00; F03D11/04	SAIL WIND TURBINE
WO2012136175 A2 20121011	DE20112004964U 20110405	WOCHIAN OLIVER [DE]	F03D3/06	SAVONIUS ROTOR WITH CENTRAL SUPPORT CONSTRUCTION
DK201200305 A 20121106	DE201110100630 20110505	UNIV MAGDEBURG TECH [DE]	F03D3/04; F03D3/06	Savonius turbine
CN102678448 A 20120919	CN20121179591 20120601	FUHAO MAI	F03D3/06	Savonius wind rotor of small-type wind driven generator

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WO2012127196 A1 20120927	GB20110004929 20110324	LIVERPOOL RENEWABLE ENERGY RES CT [GB]; MURPHY GARY [GB]	F03D3/00; F03D3/02; F03D3/04; F03D7/06	SAVONIUS WIND TURBINE
CN202300871U U 20120704	CN20112398390U 20111019	DALIAN CHUANGDA TECH TRADE MK	F03D11/00	Sawtoothed auxiliary beam wind turbine generator blade
DE202011100479U U1 20120813	DE201120100479U 20110510	COLLING CLAUS [DE]	F03D11/04	Schwimmfähiges Windkraftsystem
CN202360294U U 20120801	CN20112492726U 20111201	LIAOYUAN POWER SUPPLY CO LTD OF JILIN ELECTRIC POWER CO LTD	F03B13/22; F03D9/00	Sea wave energy power generator
CN202483813U U 20121010	CN20122115594U 20120326	HONGJING LIU	F03D11/04	Seaborne wind driven generator basis with sinking base plate and supporting piles
WO2012128103 A1 20120927	JP20110060266 20110318; JP20120008553 20120119	NTN TOYO BEARING CO LTD [JP]; HORI MICHIO [JP]	F16C33/78; F03D11/00; F16C19/16; F16C33/58; F16J15/32	SEAL STRUCTURE FOR SLEWING BEARING, AND SLEWING BEARING
EP2511578 A1 20121017	JP20090278022 20091207; WO2010JP71741 20101203	MITSUBISHI HEAVY IND LTD [JP]	F16J15/18; F03D11/02	SEAL STRUCTURE OF MECHANICAL DEVICE, AND WIND POWER GENERATOR
CN202560481U U 20121128	CN20122143657U 20120406	CSIC CHONGQING HAIZHUANG WINDPOWER EQUIPMENT CO LTD	F03D11/00; F16J15/447	Sealing device used between cabin cover and tower of wind-driven generator
CN102644739 A 20120822	CN20111041310 20110218	GOLDWIND SCIENCE & TECHNOLOGY CO LTD	F16J15/14; F03D11/04; F16J15/02	Sealing method of connecting flange and wind driven generator
CN202545131U U 20121121	CN20122145606U 20120409	CSIC CHONGQING SEA LOADING WINDPOWER EQUIPMENT CO LTD	F03D11/00; F16J15/16; F16J15/447	Sealing structure between air guide sleeve and cabin sleeve

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CN202338443U U 20120718	CN20112512972U 20111209	VESTAS WIND SYS AS [DK]	F03D1/06	Sealing structure for blade of wind driven generator, blade assembly of wind driven generator and wind driven generator
CN202545125U U 20121121	CN2012290983U 20120312	ZHEJIANG WINDEY WIND POWER CO LTD	F03D11/00	Sealing structure for flow guide hood and paddle of wind power generator unit
WO2012113402 A1 20120830	US201161444794P 20110221	VESTAS WIND SYS AS [DK]; BAUN TORBEN FRIIS [DK]; ROWNTREE ROBERT [GB]	F03D11/00	SEALING SYSTEM AND METHOD OF MAINTAINING A CLEAN ENVIRONMENT IN A WIND TURBINE BY ABSORBING LUBRICANT USED IN THE PITCH OR YAW BEARINGS
BRPI1101889 A2 20121120	EP20100160555 20100421	SIEMENS AG [DE]	E04H12/00; E05D5/02; F03D1/00	seÃþo de parede para uma torre de turbina eÓlica e torre de turbina
CN102720637 A 20121010	CN20121217556 20120628	ZONGFAN YUAN	F03D9/00; C01D3/06; C02F1/44; C25B1/26; F03D1/00; F03D3/00; F03D11/00	Seawater desalination system and seawater desalination method using wind energy
CN202545350U U 20121121	CN20122161786U 20120417	DEYONG ZHAN	F04D29/38; F03D11/00	Secondary-forming fan blade
US2012308396 A1 20121206	US201113578119 20110210; DK20100070045 20100210; US20100303488P 20100211; WO2011EP51931 20110210	VESTAS WIND SYS AS [DK]	F03D1/06; B32B37/12	SECTIONAL BLADE
CN202545141U U 20121121	CN20122196271U 20120502	GUODIAN UNITED POWER TECH CO [CN]	F03D11/00	Sectional blade for large wind generator unit
CN102734084 A 20121017	CN20121212757 20120626	KUNMING FENGCHAO SCIENCE CO LTD	F03D11/00	Sectional blade of wind driven generator

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CN102635514 A 20120815	CN20121135305 20120502	GUODIAN UNITED POWER TECH CO [CN]	F03D11/00; F03D11/04	Sectional type blade of large-scale wind power generator set and connecting method for sectional type blade
CN202360593U U 20120801	CN20112415703U 20111027	LUOYANG SHUANGLONG PLASTIC PRODUCT CO LTD	F16C33/38; F03D11/00; F16C33/50	Sectional type retainer for spindle bearing of direct-driven wind generating set
CN102606419 A 20120725	CN20121111011 20120416	GUODIAN UNITED POWER TECH CO [CN]	F03D11/00	Sectional type wind wheel blade and connection mechanism and mounting method thereof
EP2507508 A2 20121010	DK20090070240 20091202; US20090265978P 20091202; WO2010EP68712 20101202	VESTAS WIND SYS AS [DK]	F03D1/06	SECTIONAL WIND TURBINE BLADE
CN102562486 A 20120711	CN20121026153 20120207	GUODIAN UNITED POWER TECH CO [CN]	F03D11/00	Sectional wind turbine blade and installation method thereof
EG25941 A 20121105	WO2009ES00122 20090306; ES20080000676 20080307	NAC DE MONEDA Y TIMBRE REAL CASA DE LA MONEDA FAB [ES]	D21F1/44; D21H21/42	Security paper, production method thereof and security documentation produced form same
CN102650261 A 20120829	CN20121155462 20120518	CHINA MCC17 GROUP CO LTD	F03D1/06; B66C1/16; B66C13/04	Segmental lifting method for impeller of high-power wind driven generator
CN202545134U U 20121121	CN20122160312U 20120416	GUODIAN UNITED POWER TECH CO [CN]	F03D11/00; F16B39/24	Segmental wind turbine blade and connecting mechanism thereof
CN102661252 A 20120912	CN20121154279 20120518	LIANYUNGANG ZHONGFU LIANZHONG COMPOSITES GROUP CO LTD	F03D11/00; B29C65/52; B29C70/36	Segmented fan blade as well as preparation and assembly method of segmented fan blade

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EP2526288 A2 20121128	US20100297291P 20100122; DK20100070020 20100121; WO2011DK50016 20110119	VESTAS WIND SYS AS [DK]	F03D1/06	SEGMENTED ROTOR BLADE EXTENSION PORTION
US2012213642 A1 20120823	CN20101033771 20100111; WO2010CN01688 20101025	SINOVEL WIND GROUP CO LTD [CN]	F03D1/06; B21K3/04	SEGMENTED WIND ROTOR BLADE FOR WIND TURBINE GENERATOR SYSTEM AND ASSEMBLYING METHOD THEREOF
WO2012171532 A2 20121220	US201161496599P 20110614; DK20110070438 20110809	VESTAS WIND SYS AS [DK]; HAJ-MAHARSI MOHAMED [US]; HOFFMAN JASON [US]	F03D7/02	SELECTIVE DROOP RESPONSE CONTROL FOR A WIND TURBINE POWER PLANT
GB2491343 A 20121205	GB20110008546 20110604	CARRINGTON SIMON PAUL [GB]	F03D3/06	Self erecting rail guided sail eg for a wind turbine rotor
CN102720643 A 20121010	CN20121069289 20120315; CN20121088957 20120329	LIWU HE	F03D11/00; F03D11/02	Self-adapting wind blade for wind power generation
WO2012138244 A1 20121011	WO2011RU00228 20110406	ORLOV VIKTOR FEDOROVICH [RU]; KAMENSCHIKOV IGOR ALEKSANDROVICH [RU]	F03D3/00; F03D7/06	SELF-ADJUSTING WIND-DRIVEN PLANT
WO2012138243 A1 20121011	WO2011RU00224 20110406	ORLOV VIKTOR FEDOROVICH [RU]; KAMENSCHIKOV IGOR ALEKSANDROVICH [RU]	F03D5/00; F03D7/06	SELF-ADJUSTING WIND-DRIVEN PLANT FOR EXTRACTING FLOW ENERGY
CN202545572U U 20121121	CN20122148018U 20120410	JINAN RAILWAY VEHICLES EQUIP	F16C23/08; F03D11/00; F16C33/58; F16C33/66; F16C35/06	Self-aligning roller bearing for main shaft of wind driven generator

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CN102654102 A 20120905	CN20111056608 20110301	ZHENWEN ZHOU	F03D9/00; F03D5/02; F03D7/00; F03D11/04	Self-control kite group generator
CN102678470 A 20120919	CN20121181433 20120605	UNIV KUNMING SCIENCE & TECH	F03D9/00; F03D1/06; F03D7/04; F03D11/00	Self-elevating overhead wind power generating set
CN202484029U U 20121010	CN20122009042U 20120110	SHANGHAI SHENGUANG HIGH STRENGTH BOLTS CO LTD	F16B33/06; F03D11/04; F16B43/00	Self-lubricating torque coefficient controllable high-strength bolt connecting pair used for wind power tower
CN102777062 A 20121114	CN20121282851 20120810	WUXI C SOLAR NEW ENERGY TECHNOLOGY LTD	E04H5/02; F03D1/02; F03D1/04; F03D1/06; F03D9/00; F03D11/00	Self-starting funneling wind concentration wind power generation system
WO2012089214 A2 20120705	US201061427943P 20101229; DK20100070590 20101230	VESTAS WIND SYS AS [DK]; SAMUEL AMALAN PAUL [IN]	F03D7/02; F03D11/00; G01P13/02	SENSOR ALIGNMENT USING DIRECTIONAL COMPASS
KR20120071045 A 20120702	KR20100132622 20101222	DAEWOO SHIPBUILDING & MARINE [KR]	F03D11/00; F03D11/02	SEPARABLE MAIN FRAME FOR WIND TURBINE
CN102654105 A 20120905	CN20121141062 20120509	UNIV JIANGSU	F03D11/02; F15B21/00	Separating flexible speed increasing device based on inner-curve hydraulic motor
CN202338446U U 20120718	CN20112534455U 20111219	RENERGY ELECTRIC SUZHOU CO LTD	F03D7/00	Serial-parallel conversion circuit of wind power generating pitch system
CN102562444 A 20120711	CN20121058747 20120307	UNIV BEIHANG	F03D5/00; F03D9/00; F03D9/02	Serial-type mooring ball-carrying wind driven power generation device
CN202300843U U 20120704	CN20112334332U 20110907	LIPING LOU	F03D9/00; B60K16/00; F03D1/02; F03D1/04; F03D1/06; H02K7/18	Series connection impeller wind power generation device fixed on motor vehicle
EP2520533 A1 20121107	EP20110164952 20110505	SIEMENS AG [DE]	B66C23/18; F03D11/00	Service crane for a wind turbine
US2012305331 A1 20121206	GB20100002581 20100216; WO2011GB50301 20110216	EXTREME ACCESS HIRE LTD [GB]	B08B1/00; A46B15/00; B08B1/04; B66F11/04; F03D11/00	SERVICE PLATFORM

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CN102734063 A 20121017	CN20121234871 20120709	XIN ZHAO	F03D3/06; F03D9/00; F03D11/02	Shaft-free and gearless combined type wind driven generator with vertical double vanes and double water wheels
CN102704895 A 20121003	CN20121198377 20120616	WUXI TONGCHUN NEW ENERGY TECH	E21B43/00; E03B1/00; E21B43/26; F03D9/02; H02J7/00; H02N6/00	Shale gas energy explored in hydraulic fracturing mode for wind and light complementary power generation system irrigation
KR20120113013 A 20121012	KR20110030672 20110404	SAMSUNG HEAVY IND [KR]	B63B35/44; B63B9/00; B63B27/12; F03D11/04	SHIP FOR INSTALLING SEA WIND POWER GENERATOR AND METHOD USING THE SAME
KR20120072537 A 20120704	KR20100134326 20101224	SAMSUNG HEAVY IND [KR]	B63B35/00; B63B9/00; B63B27/00; F03D11/00	SHIP FOR INSTALLING WIND POWER GENERATOR AND INSTALLING METHOD OF WIND POWER GENERATOR
US2012301284 A1 20121129	KR20090111682 20091118; WO2010KR04531 20100713	KIM JUEN SOO [KR]	F03D3/04	SHIP HAVING A WIND POWER GENERATOR
KR20120082624 A 20120724	KR20110004012 20110114	SAMSUNG HEAVY IND [KR]	B63J99/00; B63B15/00; B63J3/00; F03D3/06	SHIP HAVING ENERGY RECOVERY DEVICE
CN202518449U U 20121107	CN20122176659U 20120425	CHENGDE HUANG	B63H13/00; B63H23/02; F03D9/00	Ship wind energy using device
KR20120127013 A 20121121	KR20110045205 20110513		F03D11/00; F03D1/00; F03D11/02	WINDMILL
WO2012089215 A2 20120705	DK20100070589 20101229	VESTAS WIND SYS AS [DK]; WONG LIP PANG [SG]; BRORSEN HANS [DK]	G01H1/00; F03D7/02	SHOCK SENSOR FOR WIND TURBINE GENERATOR
CN102562469 A 20120711	CN20111442703 20111227	UNIV NORTH CHINA ELEC POWER	F03D9/00; G01L3/24; G06N3/08	Short-term wind driven generator output power predicting method based on correction algorithm

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US2012183387 A1 20120719	US201213431206 20120327; US20070845094 20070827; US20060871135P 20061221	FEDOR JOHN W [US]; CIRONI MARK L [US]	F03D1/04; F03D7/04	SHROUDED WIND TURBINE SYSTEM WITH YAW CONTROL
US2012230810 A1 20120913	US201213417764 20120312; US201161451147P 20110310	KING ABDULAZIZ CITY SCIENCE AND TECHNOLOGY [SA]	F03D1/04; B23P17/00; F03D11/00	SHROUNDED WIND TURBINE CONFIGURATION WITH NOZZLE AUGMENTED DIFFUSER
CN102797630 A 20121128	CN20121289117 20120815	XEMC WINDPOWER CO LTD	F03D7/00; H02J9/06	Shutdown control method and shutdown control device of wind turbine generator set
CN202348563U U 20120725	CN20112446113U 20111113	HONGYI YU	F03D3/04; F03D3/06; F03D11/04	Shutter overlaid type universal wind turbine
CN202348575U U 20120725	CN20112446100U 20111113	HAOZHONG XU	F03D9/00; F03D3/06; F03D11/04	Shutter overlaid type wind driven generator
CN202348559U U 20120725	CN20112446117U 20111113	HAOZHONG XU	F03D3/02; F03D3/06	Shutter overlying type universal wind turbine
CN202348572U U 20120725	CN20112446092U 20111113	HAOZHONG XU	F03D9/00; F03D3/04; F03D3/06; F03D11/04	Shutter overlying-type wind driven generator
CN202348573U U 20120725	CN20112446093U 20111113	HONGYI YU	F03D9/00; F03D3/04; F03D3/06; F03D11/04	Shutter stacked type wind-driven generator
CN202348561U U 20120725	CN20112446089U 20111113	HONGYI YU	F03D3/04; F03D3/06; F03D11/04	Shutter superimposed universal wind powered machine
CN202348564U U 20120725	CN20112446096U 20111113	HAOZHONG XU	F03D3/06; F03D11/04	Shutter superposed universal wind turbine
CN202348574U U 20120725	CN20112446098U 20111113	HAOZHONG XU	F03D9/00; F03D3/00	Shutter type wind driven generator
CN202560457U U 20121128	CN20122162685U 20120417	HONGYI YU	F03D3/00; F03D3/04; F03D3/06	Shutter wind engine
CN202348576U U 20120725	CN20112446106U 20111113	HAOZHONG XU	F03D9/00; F03D3/04; F03D3/06; F03D11/04	Shutter-stacked wind-driven generator

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CN202348558U U 20120725	CN20112446103U 20111113	HAOZHONG XU	F03D3/02; F03D3/06	Shutter-superposed universal wind turbine
CN202348562U U 20120725	CN20112446099U 20111113	HAOZHONG XU	F03D3/04; F03D3/06; F03D11/04	Shutter-superposed universal wind turbine
CN202348570U U 20120725	CN20112446086U 20111113	HAOZHONG XU	F03D9/00; F03D3/06; F03D11/04	Shutter-superposed wind-driven generator
KR20120085452 A 20120801	KR20110006781 20110124	LEE JOO SANG [KR]	F03D9/00; F03D3/04; F03D7/06	SIDE WALL TYPE AEROGENERATOR
CN102720641 A 20121010	CN20121215644 20120627	UNIV CHONGQING TECHNOLOGY	F03D9/02; E21D9/14; E21D11/38; F02B63/04; F03D11/00; H02J7/00; H02N6/00	Sight and firewood integrated off-grid power supply system
FR2974861 A3 20121109	FR20110001401 20110506	TONARELLI GIOVANNI [FR]	F03D11/04; B60L3/00; B60L9/00; F03D3/00; F03D9/00	Simple/telescopic pivoting support hoop for electric wind kit that is mounted on roof of vehicle e.g. car, has hoop body pivoting around axis to tilt kit backward and utilize turbulences without affecting drag factor of vehicle
KR20120127191 A 20121121	KR20120020918 20120229		F03D11/00; F03D1/00; F03D7/00; H02K11/00	WIND POWER GENERATION SYSTEM
DE102011002842 A1 20120719	DE201110002842 20110118	SUZLON ENERGY GMBH [DE]	G05B17/02; F03D7/00; H02J3/38	Simulationsmodell für eine Windenergieanlage sowie Erzeugung und Verwendung
CN202500730U U 20121024	CN20122121774U 20120328	DONG XUE	F03D9/00; F03D1/04	Single sail type wind driven generator with guide function
TW201242223 A 20121016	TW20110112051 20110407	CHEN WEN-YUN [TW]	H02K5/16; F03D11/00	Single-bearing type power generator
CN202418272U U 20120905	CN20122000172U 20120101	LUOYANG JINGLIAN MACHINE COMPONENTS CO LTD	F16D1/091; F03D11/00	Single-cavity hydraulic locking disc
CN102725519 A 20121010	WO2011CN79295 20110902	SHANGHAI GHREPOWER GREEN ENERGY CO LTD	F03D7/00; B64C27/06; B64C27/12; F03B15/00	Single-driven synchronous variable propeller device for multi-paddles

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CN202545569U U 20121121	CN20112551057U 20111226	WAFANGDIAN BEARING GROUP CO	F16C19/38; F03D11/00; F16C33/48	Single-support spindle bearing of integrated solid retainer structure of wind driven generator
CN102684286 A 20120919	CN20121164472 20120524	DY LINK ENGINEERING & TECHNOLOGY CO LTD	H02J7/35; E04H5/02; E04H12/00; F03D7/00; F03D9/00	Single-tube tower-type wind-light complementary base station
CN102654099 A 20120905	CN20111051865 20110304	QUAN MA	F03D3/00; F03D3/06	Single-wheel multi-blade upright wind paddle-type wind wheel for wind power generation
CN102536702 A 20120704	CN20101619209 20101231	GUOQING SHI	F03G6/06; F01D15/10; F01K19/00; F03D9/02; F22B1/00; F24J2/16	Siphon air-cooling tower type solar thermal power generation device with horizontal condenser
CN102536703 A 20120704	CN20101619401 20101231	GUOQING SHI	F03G6/06; F01D15/10; F01K19/00; F03D9/02; F22B1/00; F24J2/16	Siphon air-cooling tower-type solar thermal power generation device with exhaust valve
BRPI1103915 A2 20121225	EP20100173580 20100820	SIEMENS AG [DE]	G01R31/02; F03D11/00; H05F3/02	sistema de mediÃþo para um condutor descendente de uma l?mina de turbina eÓlica
ES2391734 A1 20121129	ES20100000852 20100630	GAMESA INNOVATION & TECH SL [ES]	F03D11/00; F03D1/06	SISTEMA DE SENSORIZACION DE UNA PALA.
BRPI0908552 A2 20121225	US20080034254P 20080306; US20080249086 20081010; WO2009US36347 20090306	DELTA T CORP [US]; ASPEN MOTION TECHNOLOGIES INC [US]	F01D15/12; F03D11/02	sistema de ventilador de teto com motor sem escova
CN202370745U U 20120808	CN20112458680U 20111118	CHANGXING YUFENG ELECTROMECHANICAL CO LTD	F03D3/06	Six-blade wind tube of wind energy generator
CN102767486 A 20121107	CN20111126615 20110505	YUANLIN LV; LI XIPING	F03D11/00	Skeleton ring outside windmill propeller hub
CN102644558 A 20120822	CN20121139318 20120507	CHINA NAT COAL GROUP CORP	F03D11/00; F03D9/00	Skeleton-type helical wind energy blade and wind energy power generating device

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DE102012102746 A1 20121122	DE20111001654 20110330; DE201210102746 20120329	DEUTSCH ZENTR LUFT & RAUMFAHRT [DE]	F03D1/06; F03D3/06	Slat for extensible storage at leading edge of wing in aerofoil of aircraft e.g. commercial aircraft, has flexible outer layers that are adjoined on front structure, such that concave curvature is extended on underside of slat
DE102011103441 A1 20121213	DE201110103441 20110607	LUIKEN ENNO [DE]	F16C33/76; F03D11/00; F16C33/78	Slewing bearing seal has seal carrier which is connected over transverse pin and is connected with elastic elements, and fixing screws on periphery are axially movable with main seal carrier
CN202510560U U 20121031	CN20122127757U 20120330	HERION MAN CONSULTING QINGDAO CO LTD	F16C33/76; F03D11/00	Slewing bearing sealed plug
RO128034 A2 20121228	RO20110000523 20110601	UNIV TEHNICA DIN CLUJ NAPOCA [RO]	F02B53/00; F03D1/04; F03D5/04	SLOW HYDRAULIC ENGINE
CN202402218U U 20120829	CN20122022792U 20120118	DENGRONG ZHOU; JIAN ZHOU	F03D9/00; F03D11/00; F03D11/04	Small turbofan power generation device
CN202545120U U 20121121	CN20122162267U 20120417	NAT WIND ENERGY CO LTD [CN]	F03D9/00; F03D3/00; F03D3/06; H02K7/18	Small vertical axis wind driven generator structure
CN202431450U U 20120912	CN20122045585U 20120208	PENG LU	F03D9/00; F03D1/00; F03D1/06; F03D7/04	Small-type wind turbine generator
CN202350359U U 20120725	CN20112375104U 20111008	UNIV KUNMING SCIENCE & TECH	F24J2/46; F03D9/00	Solar centralized heating system using wind energy for heating remained water
CN202348591U U 20120725	CN20112410905U 20111025	WUXI C SOLAR NEW ENERGY TECHNOLOGY LTD	F03D11/04	Solar drag-up hot-air-flow guiding functional tower system
CN202300881U U 20120704	CN20112366960U 20110928	JINCHEN CHEN	F03G6/00; F03D9/02	Solar energy and wind energy combined power generation system
CN202300882U U 20120704	CN20112430468U 20111103	JIANCHENG ZHANG	F03G6/06; F03D9/00; F22B1/06; F24J2/34; F28D20/02	Solar energy and wind energy complementary energy storage thermal power generation device

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CN202542936U U 20121121	CN20122119378U 20120327	WUHAN HENGLIANGZI ENVIRONEMENT EGINEERING CO LTD	C02F3/02; F03D9/00; H02J7/35	Solar energy and wind energy integrated sewage treatment device
CN102787981 A 20121121	CN20111127129 20110517	TAO HU	F03D9/02; B32B33/00; H02K7/14; H02N6/00	Solar energy storage power generation system
CN102679479 A 20120919	CN20121148736 20120504	ZHAO YU	F24F5/00; F03D9/00; H02N6/00	Solar energy wind energy air conditioner
KR20120107612 A 20121004	KR20110025215 20110322	LEE MI HWA [KR]	F03G6/00; F03D1/04; F03D9/00	SOLAR-HEATED WIND POWER JENERATOR
GB2491372 A 20121205	GB20110009141 20110531	JONES ROSEMARY [GB]	F03D9/00; F03D11/04	Solar-wind assembly
KR20120127377 A 20121121	KR20120112273 20121010		F03D3/04; F03D3/02; F03D11/00	Wind power generator
WO2012163063 A1 20121206	CN20111141960 20110530	AOV ENERGY TECHNOLOGIES CO LTD [CN]; LIU SHOUHUA [CN]; ZHANG JIAFENG [CN]	G02B5/10; F03D9/00; F03D11/00; H02N6/00	SOLAR-WIND POWER GENERATION UNIT AND SYSTEM THEREOF BASED ON REFLECTING CONDENSER
CN202468177U U 20121003	CN20122025623U 20120119	DENGRONG ZHOU; JIAN ZHOU	F03D11/00	Sound deadening device of wind turbine tower
CN102562435 A 20120711	US20100964877 20101210	GEN ELECTRIC [US]	F03D1/06	Spar assembly for a wind turbine rotor blade
CN102730552 A 20121017	CN20121216074 20120627	GUANGDONG ELECTRIC POWER DESIGN INST OF CHINA ENERGY ENGINEERING GROUP CO LTD	B66C1/48; F03D11/04	Special hold hoop equipment for complete machine installation of marine fan
CN202529738U U 20121114	CN2012280403U 20120306	HUADIAN ZHENGZHOU MECHANICAL DESIGN INST CO LTD; ZHENGZHOU KERUN ELECTROMECHANICAL ENGINEERING CO LTD	B66C23/10; F03D11/00	Special lifting machine for wind power

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WO2012111022 A1 20120823	IN2011CH00412 20110214	VALAGAM RAJAGOPAL RAGHUNATHAN [IN]	F03D7/02; F03D7/06	SPEED CONTROL OF WIND TURBINE BY IMPLYING DRAG USING CENTRIFUGAL CONTROL
CN102562999 A 20120711	CN20111424983 20111216	SANY ELECTRIC CO LTD	F16H39/04; F03D11/00	Speed increasing device and wind generating set
CN102562481 A 20120711	CN20111424972 20111216	SANY ELECTRIC CO LTD	F03D11/00; F03D9/00; F16H47/02	Speed increasing device and wind generating set
WO2012127736 A1 20120927	JP20110063892 20110323	SUMITOMO HEAVY INDUSTRIES [JP]; SEISA GEAR LTD [JP]; HARA KAZUTOSHI [JP]; HASHIMOTO ATSUSHI [JP]; SATOH YASUMASA [JP]; KONISHI TOSHIYUKI [JP]; KANEMITU MASAHIRO [JP]; INA TAKURO [JP]	F03D11/02; F16H1/06; F16H1/28; F16H55/08	SPEED INCREASING GEAR FOR WIND TURBINE
EP2514967 A2 20121024	JP20110096209 20110422	SUMITOMO HEAVY INDUSTRIES [JP]	F03D9/00	Speed reducer used for wind power generation facility
CN102678455 A 20120919	CN20121146022 20120508	JIE LI	F03D7/06; F03D3/06	Speed-adjustable vertical shaft wind driven generator of wind wheel blade
DE202011105132U U1 20121206	DE201120105132U 20110829	PRAETORIUS JOERG [DE]	F03B7/00; F01D1/00; F03B1/02; F03D1/06; F03D3/06	Speichenturbine
US2012328440 A1 20121227	US201113169354 20110627	VETTESE SHAROLYN [CA]; BALEAN DAN [CA]; PINNAU MARTIN [CA]	F03D11/00	Spindle
CN102654238 A 20120905	CN20121141098 20120508	GUANGDONG MINGYANG WIND POWER INDUSTRY GROUP CO LTD	F16N7/40; F03D11/00; F16N29/04; F16N39/04; F16N39/06	Spindle bearing lubricating system for wind driven generator
US2012183402 A1 20120719	US201113008203 20110118	BORTOLI STEPHEN MICHAEL [US]	F03D11/02; B23P11/00; F16H1/14	SPIRAL BEVEL GEAR SET FOR RAM AIR TURBINE

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CN102661255 A 20120912	CN20121060336 20120302	LI JIANXIN; YUANLIN LV	F03D11/02	Spiral coil spring device for energy storage and transmission of rotation power of windmill shaft
CN202560468U U 20121128	CN20122160484U 20120417	CAIDE LUO	F03D9/00	Spiral pipeline type wind driven generator
CN102748204 A 20121024	EP20110162978 20110419	SIEMENS AG [DE]	F03D1/06	Spoiler for a wind turbine blade
CA2774582 A1 20121019	EP20110162976 20110419	SIEMENS AG [DE]	F03D1/06; F15D1/10	SPOILER FOR A WIND TURBINE ROTOR BLADE
CN102797639 A 20121128	CN20111146086 20110527	SUMEI LU	F03D9/02; F03D7/02; F03D11/00	Spring energy storage-type wind power generation system
CN202493379U U 20121017	CN20112534594U 20111219	LICHENG YANG	F03D9/00; F03D7/00	Squash wind power generation system
RU2458246 C1 20120810	RU20110112080 20110331	GUBANOV ALEKSANDR VLADIMIROVICH [RU]	F03D7/04; F03D9/00	STABILISING WIND POWER UNIT
CN202326017U U 20120711	CN20112445797U 20111112	SICHUAN ELECTRIC POWER CORP GUANG AN ELECTRIC POWER BUREAU	F03D9/00; F03D9/02	Stable power generation system device
CN202326018U U 20120711	CN20112446144U 20111113	UNIV DONGHUA	F03D9/00; F03B13/08; H02J3/38	Stable power-generating system based on conversion of wind energy and water energy
US2012201666 A1 20120809	US201213365123 20120202; US201161462749P 20110208	CURTIS TOM B [US]	F03D3/02; F03D3/04	STAGGERED MULTI-LEVEL VERTICAL AXIS WIND TURBINE
CN202560459U U 20121128	CN2012263440U 20120224	TAIPING ZHU	F03D3/06; F03D11/00	Star-shaped combined windmill fan blade
CN102705181 A 20121003	CN20121174505 20120531	UNIV SHANGHAI	F03D11/02; F03D3/06; F03D9/00; F16D43/08; F16D43/18	Starting device for vertical axis wind turbine (VAWT)
CN202431441U U 20120912	CN20112570246U 20111230	SINOVEL WIND GROUP CO LTD [CN]	F03D7/00; F03D11/00	State monitoring system of wind turbine

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CN202326011U U 20120711	CN20112509626U 20111208	SINOVEL WIND GROUP CO LTD [CN]	F03D7/00	State-monitoring and fault-diagnosis system of wind-power set
DK2389509T T3 20121112	DE200910006054 20090124; WO2009EP09164 20091219	BOSCH GMBH ROBERT [DE]	F03D7/04; F03D7/02	Stationõrt energiproducerende anlõg med bremseindretning
CA2762978 A1 20120703	EP20110150030 20110103	SIEMENS AG [DE]	H02K3/12; F03D11/00; H02K3/48	STATOR ELEMENT FOR AN ELECTRICAL MACHINE
KR20120128275 A 20121127	KR20110046118 20110517		F03D9/00; F03D3/04; F03D11/00	Aerogenerator using air inhalers at expressway
CN102537069 A 20120704	CN20121064865 20120313	JIANGSU LIXING GENERAL STEEL BALL CO LTD	F16C33/32; C21D9/36; F03D11/00	Steel ball special for bearing of large-scale offshore wind power generator group and manufacturing process for steel ball
WO2012131852 A1 20121004	WO2011JP57434 20110325	NIPPON STEEL CORP [JP]; HONMA RYUICHI [JP]; ISHIKAWA TADASHI [JP]; SHIMANUKI HIROSHI [JP]	B23K9/028; B23K9/00; E04H12/08; F03D11/04	STEEL PIPE HAVING FLANGE DISK WELDED THERETO
CN202431444U U 20120912	CN20122020569U 20120117	UNIV HEHAI	F03D7/04	Steering device for large wind driven generator
CN102562449 A 20120711	CN20111441940 20111226	ZK ENERGY SCIENCE & TECHNOLOGY CO LTD	F03D7/00	Stepless blade pitch transformation system of medium and small power wind-driven generator
CN202381256U U 20120815	CN20112551368U 20111226	ZK ENERGY SCIENCE & TECHNOLOGY CO LTD	F03D7/00	Stepless propeller pitch conversion system of middle/small power wind-driven generator
CN202468879U U 20121003	CN20112501178U 20111130	ZEXING GAO	F16H9/22; F03D11/02	Stepless rope transmission device and wind turbine with same
EP2530313 A1 20121205	WO2010JP52094 20100212	MITSUBISHI HEAVY IND LTD [JP]	F03D11/02	STEP-UP GEAR DEVICE FOR WIND-DRIVEN ELECTRICITY GENERATION DEVICE, AND WIND-DRIVEN ELECTRICITY GENERATION DEVICE

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WO2012108086 A1 20120816	JP20110023560 20110207	SUMITOMO HEAVY INDUSTRIES [JP]; SEISA GEAR LTD [JP]; HARA KAZUTOSHI [JP]; HASHIMOTO ATSUSHI [JP]; SATOH YASUMASA [JP]; KONISHI TOSHIYUKI [JP]; KANEMITU MASAHIRO [JP]; INA TAKURO [JP]	F03D11/02; F16C19/36; F16C25/04; F16C27/06; F16C27/08; F16F7/00	STEP-UP MECHANISM FOR WIND-POWERED GENERATOR
CN202560337U U 20121128	CN20122119898U 20120327	GUANGSHUN WANG	F01K23/06; F01D15/10; F01K23/04; F03D1/04; F03D9/00	Stepwise steam turbine mixed new energy generating station
CN102644555 A 20120822	CN20121140840 20120508	ANHUI ZHIJIEKECHUANG WIND & SOLAR POWER GENERATING EQUIPMENT CO LTD	F03D9/00; F03D3/06	Stereo efficient breeze generator
DE102011004699 A1 20121227	DE201010009153 20100224; DE201110004699 20110224	SUZLON ENERGY GMBH [DE]	F03D11/00; F03D7/02	Steuereinheit und Windturbine mit einer solchen Steuereinheit
US2012183408 A1 20120719	EP20110151248 20110118	NOERLEM MICHAEL [DK]	F03D1/06; B32B3/00; B32B37/14	STIFFENING SHEET FOR USE IN A FIBRE REINFORCED LAMINATE, FIBRE REINFORCED LAMINATE AND WIND TURBINE BLADE, AND A METHOD OF MANUFACTURING A FIBRE REINFORCED LAMINATE
CN202419944U U 20120905	CN20112529581U 20111218	UNIV HUNAN SCI & TECHNOLOGY	F24J2/00; F03D9/00; F24D15/04; F24D19/10; F24H4/04; F24J2/04	Stirring type wind power heating solar air source heat-pump water heater
EP2500588 A1 20120919	DE201110005498 20110314	SKF AB [SE]	F16C3/02; B29C70/32; F03D11/00; F16C35/04; F16C35/06	Storage concept with wound tubes

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AU2010320483 A1 20120712	IS20100008923 20100816; IS20090008862 20091120; WO2010IS50009 20101122	CRI EHF	C10G2/00; C01B3/04; C01B13/02; C07C29/00; C10J3/00; C25B1/04; F02C3/00; F03D9/00	Storage of intermittent renewable energy as fuel using carbon containing feedstock
DE112011100557 A5 20121122	DE201020002478U 20100217; WO2011DE00134 20110212	SCHMIDT HELMUT [DE]	F03B17/06; F03D3/06; F03D5/02	Str÷mungs-Kraftanlage
CN102612597 A 20120725	WO2010US49399 20100917; US20090244039P 20090919	SALOMO MURTONEN	F03D1/00	Streamlined wind turbine optimized for laminar layer
CN202402224U U 20120829	CN20122026845U 20120120	DENGRONG ZHOU; JIAN ZHOU	F03D11/00; B01D46/12; F04D25/08	Strong air supply dust removing system of wind power generation tower
CN202441551U U 20120919	CN20122065175U 20120227	ZHUZHOU TIMES NEW MAT TECH CO	F03D11/00	Structural adhesive collecting device applied to wind-power generation blade
WO2012123551 A1 20120920	GB20110004339 20110315	GURIT UK LTD [GB]; LAVOIE BERNARD JOSEPH [CA]	B29C65/20; B29C70/08; B29C70/44; B32B3/18; B32B5/18; B32B27/06; B32B37/10; B32B37/18; F03D1/06	STRUCTURAL FOAM, SANDWICH PANEL AND MANUFACTURE THEREOF
TWM439712U U 20121021	TW20120207218U 20120418	GREAT PHOTOELECTRIC CORP [TW]; GREAT PHOTOELECTRIC KUNSHAN CORP [CN]	F03D1/00	Structure for wind generator
KR20120094223 A 20120824	KR20110013575 20110216	WESTERN ENERGY TECHNOLOGIES [KR]	F03D3/06; F03D11/00	STRUCTURE OF SAFE INSTALLATION FOR VERTICAL AXIS WIND TURBINE
CN102787977 A 20121121	CN20111132187 20110520	JINHE QIU	F03D9/00; F03D1/02; F03D1/06; F03D7/02; F03D11/00	Structure of wind power generation

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US2012269634 A1 20121025	US201113089754 20110419	HAMILTON SUNDSTRAND CORP [US]	F03D11/02; B23P11/00; B23P15/04	STRUT DRIVESHAFT FOR RAM AIR TURBINE
EP2538072 A1 20121226	DE201110051305 20110624	TECSOL GMBH [DE]	F03B13/06; F03D9/02	Subterranean pump storage power plant
RO128041 A2 20121228	RO20100000187 20100225	TOROK ARPAD [RO]	F03D3/00	SUN AND WIND ENERGY SYSTEM
CN202300853U U 20120704	CN20112410904U 20111025	WUXI C SOLAR NEW ENERGY TECHNOLOGY LTD	F03D9/00; F03G6/04; F03G6/06	Sun tower-type power output optimization integrated system of wind-light integrated heating power-assisted mechanism
CN202441542U U 20120919	CN20122055827U 20120221	CHENGDU FORWARD TECHNOLOGY LTD	F03D7/00	Super capacitor monitoring system
PT1613861E E 20121031	CH20030000635 20030407	ROTH & MESSMER SECURITY TEAM GMBH [CH]	F03D9/00; F24J2/54; H01L31/045; H01L31/058	SUPPLY UNIT FOR POWER AND WATER BASED ON RENEWABLE ENERGY
FR2970938 A1 20120803	FR20110050756 20110201	TECHNIP FRANCE [FR]	B63B35/44; F03D11/04	Support assembly for wind turbine utilized for generating power at sea, has three semi-submersible floats that are connected to seabed by set of lines, where each base is provided with tank with neutral buoyancy
MA33408 B1 20120703	EP20090380102 20090519; WO2010IB52222 20100519	PACADAR S A [ES]; MEHDI SALMOUNI ZERHOUNI M	E04H12/12; E04H12/16; F03D11/04	Support structure for a wind turbine
WO2012153137 A1 20121115	GB20110007857 20110511	ANWYLL JOSEPH [GB]	F03D11/04; E04H12/18	SUPPORT STRUCTURE FOR A WIND TURBINE AND A METHOD THEREOF
JP2012167662 A 20120906	JP20110046959 20110215	SUZUKI KENICHI	F03D11/04; F03D3/06	SUPPORT STRUCTURE FOR VERTICAL WIND TURBINE
EP2535565 A1 20121219	CN201019114070 20100208; WO2010CN00960 20100628	NAT WIND ENERGY CO LTD [CN]	F03D3/06	SUPPORTING ROD STRUCTURE OF WIND WHEEL IN VERTICAL AXIS WIND POWER

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US2012168252 A1 20120705	US20100981156 20101229	BOGAERT JOOST [BE]	F03D11/00; E04G3/24; E04G3/32; E04G5/00	SUSPENDED ACCESS CHAIR WITH RESCUE SYSTEM
CN102684553 A 20120919	CN20121183222 20120601	UNIV ZHEJIANG NORMAL	H02N2/18; F03D9/00	Suspended piezoelectric wind energy collector
AU2011227142 A1 20121025	US20100314716P 20100317; WO2011US28908 20110317	ECOPORT INC	E04B1/348; B60P3/32; B65D88/10; F03D9/00; H01L31/042	Sustainable modular structure powered by green energy
CN102725524 A 20121010	WO2011EP00294 20110125; DE201010007136 20100205	ABB TECHNOLOGY [CH]	F03D11/04; F03D11/00; H02B13/025	Switchgear, in particular switchgear for an offshore wind turbine
HU1100313 A2 20121228	HU20110000313 20110614	KISS MIHALY [HU]	F03D5/06	SYNCHRONOUS PRESSURED WIND POWER PLANT
MX2011014045 A 20120704	AR2010P103701 20101008	IND METALURGICAS PESCARMONA S A I C Y F [AR]	F03D9/00	SYNCHRONOUS WIND GENERATOR.
CN202431439U U 20120912	CN20112548620U 20111223	SINOVEL WIND GROUP CO LTD [CN]	F03D7/00	System achieving communication between variable paddle control module and main control module
EP2481925 A2 20120801	US201113013933 20110126	GEN ELECTRIC [US]	F03D11/00	System and method for collecting particles in a wind turbine rotor blade
KR20120095710 A 20120829	KR20110015194 20110221	SAMSUNG HEAVY IND [KR]	F03D11/00; F03D7/00; F03D11/02; G01P3/00	SYSTEM AND METHOD FOR COMPENSATION NACELLE WIND VELOCITY OF WIND TURBINE
WO2012109616 A2 20120816	US201161442136P 20110211; US201161442135P 20110211	XZERES CORP [US]; BLACK NATHANIEL [US]; HOLDER MICHAEL [US]	F03D7/00; F03D11/00	SYSTEM AND METHOD FOR CONTROLLING A WIND TURBINE INCLUDING CONTROLLING YAW OR OTHER PARAMETERS
CN102536657 A 20120704	US20100974525 20101221	GEN ELECTRIC [US]	F03D7/02	System and method for controlling wind turbine power output
CN102607850 A 20120725	US20100977792 20101223	GEN ELECTRIC [US]	G01M15/00; F03D7/02	System and method for detecting anomalies in wind turbines

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WO2012110041 A1 20120823	GB20110002640 20110215; US201161442932P 20110215	VESTAS WIND SYS AS [DK]; GLAVIND LARS [DK]; OLESEN IB SVEND [DK]; HANCOCK MARK [GB]; CRAVEN RICHARD [GB]	G01M5/00; F03D7/00; F03D11/00; G01M11/08	SYSTEM AND METHOD FOR DETECTING DAMAGE TO A WIND TURBINE BLADE
KR20120078259 A 20120710	KR20100140498 20101231	KOREA INST CONSTRUCTION TECH [KR]	F03D7/00; H02J3/00	SYSTEM AND METHOD FOR DISPLAYING APPLICATION DOCUMENT
KR20120088618 A 20120808	KR20120064881 20120618	RHEE SHIE WOO [KR]	F03D9/00; F03G4/00; F24J3/08	SYSTEM AND METHOD FOR HARVESTING AND STORING COMPRESSED AIR BY WIND ENERGY IN EGS POWER PLANT
CN102691631 A 20120926	US201113053368 20110322	GEN ELECTRIC [US]	F03D11/00	System and method for increasing energy capture by wind turbines
CN102562480 A 20120711	US20100955384 20101129	GEN ELECTRIC [US]	F03D11/00	System and method for locating a maintenance device approximate an area of interest of a wind turbine
WO2012149984 A1 20121108	EP20110164757 20110504	SIEMENS AG [DE]; BJERGE MARTIN HUUS [DK]; ESBENSEN THOMAS [DK]; FRYDENDAL IB [DK]; HOEGH GUSTAV [DK]; KRISHNA RAMAKRISHNAN [DK]	F03D7/02; F03D7/04	SYSTEM AND METHOD FOR OPERATING A WIND TURBINE USING AN ADAPTIVE SPEED REFERENCE
EP2506383 A2 20121003	US201113076475 20110331	GEN ELECTRIC [US]	H02J3/18; F03D9/00; G01R19/25; G06Q50/06; H02J3/38	System and method for operating capacitor banks
WO2012097475 A1 20120726	WO2011CN00098 20110121	GEN ELECTRIC [US]; FRITZ PETER JAMES [US]; HARDING KEVIN GEORGE [US]; SONG GUIJU [CN]; YANG YONG [CN]; LI TAO [CN]; WAN XINJUN [CN]	F03D1/06; F03D11/00; G01N21/88	SYSTEM AND METHOD FOR PERFORMING AN INTERNAL INSPECTION ON A WIND TURBINE ROTOR BLADE

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WO2012128412 A1 20120927	KR20110025015 20110321	YUYANG DNU CO LTD [KR]; KIM SANG OK [KR]; KIM BYUNG OH [KR]; CHO MIN JIN [KR]; KIM DONG SIK [KR]; KANG GU YOUN [KR]	H02J7/34; F03D9/02; H02J7/35; H05B37/02	SYSTEM AND METHOD FOR POWER DISTRIBUTION USING CONVERGENCE OF SMART LED LIGHTING AND NEW RENEWABLE ENERGY, AND POWER DISTRIBUTION DEVICE USING CONVERGENCE OF SMART LED LIGHTING AND NEW RENEWABLE ENERGY AND DRIVING METHOD THEREOF
CN102740505 A 20121017	US201113080384 20110405	GEN ELECTRIC [US]	H04W84/18; F03D11/00	System and method for providing wireless communication to a wind farm
CN102562451 A 20120711	CN20121014048 20120117	WIND POWER TECHNOLOGY CT OF GANSU PROVINCIAL POWER COMPANY	F03D7/00	System and method for real-time monitoring of ten-million-kilowatt large wind farm
WO2012112990 A2 20120823	US201113030386 20110218	BARUH BRADFORD G [US]	B63H9/06; B63B1/10; B66D1/40; F03D9/00; H01L31/042	SYSTEM AND METHOD OF ADJUSTING THE LOCATION AND POSITION OF THE FORESAIL ON A SAILBOAT
CN102588205 A 20120718	US20110984222 20110104	GEN ELECTRIC [US]	F03D1/06; F03D7/04	System and method of manipulating a boundary layer across a rotor blade of a wind turbine
KR20120128351 A 20121127	KR20110046232 20110517		F23D1/04; F03D9/00; F03D11/00	Amplification efficiency wind generator
KR20120128364 A 20121127	KR20110046255 20110517		B63J3/04; B63B15/00; B63J99/00; F03D1/00	Ship With Generation Function of Electricity Using The Wind Power
WO2012123968 A2 20120920	IN2011CH00767 20110314	VALAGAM RAJAGOPAL RAGHUNATHAN [IN]	F03D3/02; F03D11/04	SYSTEM AND METHOD OF NACELLE MOUNTING ENABLING STACKING/CASCADING OF AIRFOIL BLADE(S) IN WIND TURBINE
CN102562461 A 20120711	US20100975014 20101221	GEN ELECTRIC [US]	F03D7/04; F03D1/06; F03D9/00	System and method of operating an active flow control system for manipulating a boundary layer across a rotor blade of a wind turbine

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CN102562471 A 20120711	US20100972207 20101217	GEN ELECTRIC [US]	F03D9/00; F03D7/00	System and method to provide constant speed mechanical output in a machine
CN102536661 A 20120704	US20100968525 20101215	GEN ELECTRIC [US]	F03D7/04	System and methods for adjusting a yaw angle of a wind turbine
EP2532882 A1 20121212	EP20110382193 20110610	GEN ELECTRIC [US]	F03D1/06; F03D7/04	System and methods for assembling a wind turbine with a pitch assembly
WO2012103668 A1 20120809	WO2011CN00173 20110131	GEN ELECTRIC [US]; HUANG XIONGZHE [CN]; ZHENG DANIAN [US]; XIONG WEI [US]	F03D7/04; F03D7/02	SYSTEM AND METHODS FOR CONTROLLING WIND TURBINE
EP2518363 A2 20121031	US201113094215 20110426	GEN ELECTRIC [US]	F16D66/02; F03D11/00	System for actively monitoring wear on wind turbine brake pads and related methods
WO2012127444 A1 20120927	IT2011TO00251 20110323	KITENERGY S R L [IT]; FAGIANO LORENZO [IT]; MILANESE MARIO [IT]	F03D5/02; F03D11/04	SYSTEM FOR CONVERTING WIND ENERGY INTO ELECTRICAL ENERGY THROUGH THE FLIGHT OF POWER WING PROFILES TETHERED TO THE GROUND BY CABLES OF A FIXED LENGTH, WITHOUT PASSIVE PHASES, AND WITH AUTOMATIC ADAPTATION TO WIND CONDITIONS
DE102011015002 A1 20120927	DE20111015002 20110325	LINDNER KLAUS [DE]	F03D9/00; F03D9/02	System for ecological and economic power generation for supplying power to electric car, has photovoltaic plant installed on mobile container including energy storage units, and water and wind turbines arranged above photovoltaic plant

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WO2012173489 A1 20121220	NO20110000864 20110615; NO20110001142 20110821; NO20110001344 20111004; NO20120000689 20120614	VAVIK GEIR MONSEN [NO]	F03D1/06; F03D7/02; F03D11/02	SYSTEM FOR ENHANCEMENT OF FLUID FOIL PERFORMANCE
NO20110864 A 20121217	NO20110000864 20110615	VAVIK GEIR MONSEN [NO]	F03D1/04	System for generering av elektrisk energi gjennom fangst og omforming av fornybar energi
WO2012120161 A1 20120913	WO2011ES70166 20110310	VALLESPI SAGARRA JORGE [ES]; BOCANEGRA CABEZA MARCOS [ES]; CISTERE PORRAS CAROLINA [ES]; VALLET TOFINO LUIS [ES]; FINQUES GESTIOMAR S L [ES]; SAMANIEGO RODRIGUEZ JESUS [ES]; DALMAU VIDAL FRANCESC [ES]; FONT RERRATER LUIS [ES]	F03D9/00; F03B13/06; F03B17/00	SYSTEM FOR INTEGRATING RENEWABLE ENERGIES IN ORDER TO LOCALLY SUPPLY LOW-VOLTAGE ELECTRICAL ENERGY

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WO2012156547 A1 20121122	ES20110000527 20110513	INVEST Y DESARROLLOS EOLICOS S L [ES]; MONTEJO YUSTE ROBERTO [ES]; AMEZQUETA PUEYO CARLOS [ES]; LAHUERTA CALAHORRA FRANCISCO [ES]; NUIN MARTINEZ DE LAGOS INAKI [ES]; GUELBENZU BLASCO JAVIER [ES]; SANZ MILLAN MERCEDES [ES]; DEL RIO CARBAJO MARCOS [ES]	F03D1/06	SYSTEM FOR JOINING COMPONENT PORTIONS OF WIND-TURBINE BLADES
EP2495434 A1 20120905	EP20110001767 20110303	FRAUNHOFER GES FORSCHUNG [DE]	F03D7/00; F03D11/00; H04B10/00	System for monitoring the status of rotor blades on wind energy facilities
NO20120689 A 20121217	NO20110000864 20110615; NO20110001142 20110821; NO20110001342 20111004; NO20120000689 20120614	VAVIK GEIR [NO]	F03D11/00; F03D1/04	System for oking av ytelse med fluid foiler
EP2487366 A1 20120815	ES20090030806 20091006; WO2010ES00384 20100917	LINEAS Y CABLES S A [ES]	F03D11/00; H02G13/00	SYSTEM FOR PROTECTING WIND TURBINES AGAINST ATMOSPHERIC DISCHARGES
PT1321670E E 20121112	DE20011063538 20011221	PLAMBECK NORBERT [DE]	F03D1/00	SYSTEM FOR THE TRANSPORT AND INSTALLATION OF OFFSHORE WIND TURBINES
WO2012116679 A1 20120907	DE201120003456U 20110302	SAMSON RAINER [DE]	F03D3/02; F03D3/00; F03D11/04	SYSTEM FOR USING WIND POWER

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CN102606393 A 20120725	CN20111027043 20110125	CHEN JIANHUA	F03D7/00	System power setting strengthening device
US2012269625 A1 20121025	US201113089822 20110419	SABHAPATHY PERI [US]	F03D11/00	SYSTEM TO COOL THE NACELLE AND THE HEAT GENERATING COMPONENTS OF AN OFFSHORE WIND TURBINE
EP2526276 A2 20121128	US20100282303P 20100119; WO2011US00100 20110119	WARD MARVIN WESLEY [US]	F02B63/04; F01B23/10; F01K15/02; F02D29/06; F03D9/00	SYSTEM, APPARATUS AND METHOD FOR CLEAN, MULTI-ENERGY GENERATION
WO2012088640 A1 20120705	WO2010CN02219 20101230	GEN ELECTRIC [US]; ZHU WEI [CN]	F03D7/04; H02P9/04	SYSTEM, DEVICE, AND METHOD FOR ADJUSTING WIND TURBINE COMPONENT WORKLOAD
EP2525460 A1 20121121	US201113108046 20110516	GEN ELECTRIC [US]	H02G13/00; F03D11/00; G01R29/08; G01W1/16	System, device, and method for detecting electrical discharges on a structure
CN102562459 A 20120711	US20100961269 20101206	GEN ELECTRIC [US]	F03D7/04; G06F19/00	System, device, and method for estimating possible power output of wind turbines
CN102562447 A 20120711	US20100961322 20101206	GEN ELECTRIC [US]	F03D7/00	System, device, and method for noise-based wind turbines operation
US2012261924 A1 20121018	US201213445031 20120412; US201161474666P 20110412	CHRISTENSEN KIM [US]	F03B13/00; F03D3/06	System, Method and Apparatus for Capturing Kinetic Energy
EP2472033 A2 20120704	US20100979741 20101228	GEN ELECTRIC [US]	E04H12/34; F03D1/00	Systems and method of assembling a tower section
CN102562457 A 20120711	US20100967319 20101214	GEN ELECTRIC [US]	F03D7/02	Systems and methods for determining deflection of a wind turbine shaft
US2012263591 A1 20121018	US201113088366 20110417	KWONG YAT WAI EDWIN [HK]	F03D7/04	SYSTEMS AND METHODS FOR ENHANCING PERFORMANCE OF WINDMILLS

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CN102562468 A 20120711	US20100972221 20101217	GEN ELECTRIC [US]	F03D9/00; F03D1/06; F03D7/04; G01B11/00; G01B11/24; G01B11/26	Systems and methods for monitoring a condition of a rotor blade for a wind turbine
AU2011207156 A1 20120809	US20100296444P 20100119; WO2011US21770 20110119	VILHAUER SHELDON; MODULAR WIND ENERGY INC; MADRID BERNARD; ARENDT CORY; BAKER MYLES	B63H1/00	Systems and methods for performing structural tests on wind turbine blades
AU2010315090 A1 20120705	US20090258576P 20091105; WO2010US55613 20101105	BASSETT CLIFF	F03D3/00	Systems and methods to generate electricity using a flow of air
WO2012118549 A1 20120907	US20100421479P 20101209	NORTHERN POWER SYSTEMS INC [US]; BYWATERS GARRETT L [US]; COLE TREVOR H [US]; PETTER JEFFREY K [US]	F03D7/02	SYSTEMS FOR LOAD REDUCTION IN A TOWER OF AN IDLED WIND-POWER UNIT AND METHODS THEREOF
WO2012129435 A2 20120927	US201161466442P 20110322	UNIV TUFTS [US]; QUEK SHU CHING [US]	F03D1/00; F03D1/06; F03D11/00	SYSTEMS, DEVICES AND METHODS FOR IMPROVING EFFICIENCY OF WIND POWER GENERATION SYSTEMS
AR082669 A1 20121226	DE201020011397U 20100813	WOBBEN ALOYS [DE]	F03D11/00; F03D11/04	TABLADO DE TRABAJO PARA INSTALACION DE ENERGIA EOLICA, E INSTALACION DE ENERGIA EOLICA
CN202500721U U 20121024	CN20122021127U 20120117	SHANGHAI PEOPLE ELECTRIC CO LTD	F03D7/04; F03D9/00	Tail vane of aerogenerator and aerogenerator applying the tail vane
CN102748223 A 20121024	CN20111097720 20110419	DONGHAO GAO	F03D9/00; F03B3/00; F03B13/14; F03B13/26; F03B15/00; F03D1/00; F03D7/04	Tail vane series offshore power generator

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CN102748225 A 20121024	CN20111099342 20110420	UNIV TIANJIN TECHNOLOGY	F03D9/00; F03D1/00; F03D3/00; F03D7/00	Taper cylinder type wind power generating device
CN102734061 A 20121017	CN20111087053 20110408	ZHAOYUN SUN	F03D3/02; F03D3/06; F03D7/06	Taper pipe type wind power generation device
CN102588208 A 20120718	CN20111434252 20111222	UNIV SHANGHAI	F03D3/06	Tapered blade of wind power generator with perpendicular shaft
EP2483554 A2 20120808	IL20090201222 20090929; WO2010IL00785 20100921	RE 10 LTD [IL]	F03D3/06	TAPERED HOLLOW HELICAL TURBINE FOR ENERGY TRANSDUCTION
WO2012168990 A1 20121213	DE201120101634U 20110609	MITSUBISHI HEAVY IND LTD [JP]; EUROS ENTWICKLUNGSGESELL SCHAFT FUR WINDKRAFTANLAGEN MBH [DE]; SEUFERT BERND [DE]; CREMER ANDREAS [GB]	F03D1/06	T-BOLT ATTACHMENT OF A BLADE ROOT OF A WIND TURBINE
FR2971303 A1 20120810	FR20110000357 20110205	STEINKE GALLO SABRINA [FR]	F03D11/00; F03D3/06; G09F7/22; G09F19/02	Technical device for customizing design and appearance of blades of vertical axis wind turbine used in e.g. urban environment to produce electricity, has expansion modules fixed in notch, and screws provided at outer end of blade of turbine
US2012288372 A1 20121115	US201213558179 20120725; US20070899422 20070906	HAMILTON SUNDSTRAND CORP [US]	F03D1/06; F03D11/00	TEETER-RESTRAINT DEVICE FOR WIND TURBINES
SG181577 A1 20120730	ES20090002314 20091211; WO2010ES00507 20101210	GRUPO DE INGENIERIA OCEANICA [ES]	E04H12/182; F05B2240/9151; Y02E10/72; Y02E10/728	TELESCOPIC STRUCTURE AND HOISTING SYSTEM THEREOF

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CN202402222U U 20120829	CN20112571621U 20111231	JIANGSU NEW UNITED HEAVY INDUSTRY SCIENCE & TECHNOLOGY CO LTD; NEW UNITED GROUP	F03D11/00	Temperature adjustment system of wind power generator set
KR20120073787 A 20120705	KR20100135654 20101227	POSCO [KR]; RES INST IND SCIENCE & TECH [KR]	B63B35/44; B63B21/50; B63B43/12; F03D9/00	TENSION LEG PLATFORM HAVING STATIONARY BUOYANCE HOLDING BY TENDON AND MOVABLE BUOYANCE
EP2536944 A2 20121226	US20100300598P 20100202; DK20100070033 20100202; WO2011DK50027 20110202	VESTAS WIND SYS AS [DK]	F03D7/02	TEST SYSTEM FOR WIND TURBINE DUMP LOAD
WO2012095111 A1 20120719	US201161433294P 20110117; DK20110070017 20110113	VESTAS WIND SYS AS [DK]; HOLZWEBER PAUL [BG]; ANDREASEN CARSTEN T S [DK]	F03D11/00; F01D21/20; G01R31/327	TESTING AN OVERSPEED PROTECTION SYSTEM OF A WIND TURBINE
EP2525206 A2 20121121	ES20110000532 20110516	GAMESA INNOVATION & TECH SL [ES]	G01M5/00; F03D11/00; G01L1/24; G01M11/08	Testing methods for wind turbine blades
KR20120089945 A 20120816	KR20100138836 20101230	TECHNOVALUE CO LTD [KR]	E01F9/08; F03D9/00; F21S9/02; H01L31/042	THE APPARATUS FOR IMPROVING OBSERVABILITY OF A CROSS ROAD WITH LED SIGNAL BLOCK
KR20120128458 A 20121127	KR20110046419 20110517		F03D1/02; F03D11/02	WIND POWER GENERATOR
KR20120083004 A 20120725	KR20110004404 20110117	JCENC CO LTD [KR]	F03D1/02; F03D11/00	THE HAVE MANY PROPELLER IS WIND POWER GENERATION SYSTEM
KR20120104012 A 20120920	KR20110022045 20110311	KIM WOON HAE [KR]; KIM MOON GYEOM [KR]	B66C23/18; F03D11/04	THE HOISTING AND INSTALLING METHOD AND APPARATUS OF WIND TURBINES BY USING THE SELF TOWER

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CA2732381 A1 20120824	CA20112732381 20110224	BILJANA RAKIC [CA]	F03D11/00; F03D1/04	THE PLANT FOR RUNNING WIND TURBIN
KR20120128637 A 20121127	WO2011FR50179 20110128; FR20100050634 20100129		B63B35/00; F03D1/00	FLOATING SUPPORT FOR OFFSHORE STRUCTURE SUCH AS A WIND GENERATOR IN PARTICULAR
KR20120117593 A 20121024	KR20110035422 20110416	OH DAE KUK [KR]	B63J3/04; B63H9/04; F03D3/02; H01L31/042	THE SHIP SAILED INTO SOLAR ENERGY, WIND POWER ENERGY AND A CANVAS
WO2012137028 A2 20121011	WO2011IB00940 20110407	GORDON DAVID BELL [GB]	F03D3/00; F03D3/06	THE SUNDERLAND VAWT
KR101162185B B1 20120705	KR20110050270 20110526	KWANGJU INST SCI & TECH [KR]	G01H17/00; F03D11/00	THE SYSTEM FOR MEASURING BLADE NOISE
KR101183683B B1 20120918	KR20120027861 20120319	SHIN MYEONG CONSTRUCTION ENGINEERING CO LTD [KR]	E01F15/12; F03D9/00	THE VEHICLE TO BE ESTABLISHED IS SOUR AT THE ROAD
KR20120110211 A 20121010	KR20110027922 20110329	HWANGBO TAEKWON [KR]	F03D5/00; F03D11/02; H01L31/042	THE WIND POWER GENERATIONR WHICH HAS A GENERATION FUNCTION
KR20120112947 A 20121012	KR20110030559 20110404	CHO SUNG KU [KR]	F03D3/06; F03D11/00; F03D11/02	THE WIND POWER GENERATOR
KR20120105957 A 20120926	KR20110023718 20110317	SUN MIN HO [KR]	B60L8/00; B60K16/00; F03D9/00	THE WINDMILL GENERATOR OF VEHICLE
CN202370751U U 20120808	CN20112427404U 20111102	QIGUI GUO	F03D9/00; F03D11/00	Thermal wind tunnel power generating device
CN202441545U U 20120919	CN20122049709U 20120216	AIGUO HUANG	F03D9/00; F03D3/00	Thin-film photovoltaic battery and magnetic levitation breeze generator combined power supply system
CN102734065 A 20121017	CN20111091095 20110330	YUANLIN LV	F03D7/00	Three-stage automatic paddle changing technical scheme for windmill paddles
CN102582817 A 20120718	CN20121058063 20120307	UNIV BEIHANG	B64B1/06; B64B1/08; F03D9/00	Through type captive ball-carried wind power generating device

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CN102603035 A 20120725	CN20121062030 20120309	UNIV DALIAN TECH	C02F1/44; F03B13/14; F03B13/26; F03D9/00	Tidal energy unsteady boosting seawater desalinization and power generation assembly
CA2729084 A1 20120727	CA20112729084 20110127	JUNG KIM SUK [KR]; SAM KWANG SPECIAL MACHINERY CO LTD [KR]	F03B13/26; E02B9/08; F03D9/00	TIDAL POWER GENERATING MODULE AND TIDAL POWER GENERATING METHOD USING THE SAME
KR20120109475 A 20121008	DE200910051425 20091030	VOITH PATENT GMBH [DE]	F03D1/00; E02D27/52; E04H12/22; F03D11/04	TIDAL POWER PLANT AND METHOD FOR THE CREATION THEREOF
CN202431455U U 20120912	CN20112563825U 20111230	WIPO WIND POWER WUXI CO LTD	F03D11/00	Tip-jet blade
DE102011103255 A1 20121206	DE201110103255 20110601	HANS WILHELM BOELLINGHAUS GBR VERTRETUNGSBERECHTIGTER GESELLSCHAFTER HANS WILHELM BOELLINGHAUS [DE]	F03D9/00; F03D1/04	Tornado tower type wind power plant has repeller that is arranged on flow channel so as to drive generator, and suction screen which is spaced apart from tower region connected to suction region in predetermined direction
CN102777320 A 20121114	CN20121277908 20120806	GUODIAN UNITED POWER TECH CO [CN]	F03D7/00; H02P9/06	Torque and variable-pitch decoupling control method for wind driven generator set, controller and system thereof
KR20120128851 A 20121128	KR20110046748 20110518		F03D3/06; F03D11/00	Vertical axis windpower generation of H-rotor
KR20120110685 A 20121010	KR20110028710 20110330	DMS CO LTD [KR]	F03D7/00; F03D11/00; H02P9/04	TORQUE CONTROL METHOD FOR WIND TURBINE
CN102725523 A 20121010	WO2010US61734 20101222; US20100683877 20100107	AMERICAN SUPERCONDUCTOR CORP	F03D11/02	Torque limiting coupling for wind turbine
EP2484903 A1 20120808	US201113021323 20110204	VESTAS WIND SYS AS [DK]	F03D11/00	Torsional dynamic damper for a wind turbine and method of using same
CN202326041U U 20120711	CN20112478829U 20111125	SANY ELECTRIC CO LTD	F03D11/00	Tower and wind driven generator

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CN202360307U U 20120801	CN20112523625U 20111214	JIANGSU JINFENG JIATE ELECTROMECHANICAL CO LTD	F03D11/00	Tower barrel for tower frame on new energy wind energy generator set
EP2495439 A1 20120905	CN20091236600 20091027; WO2010CN01690 20101025	SINOVEL WIND GROUP CO LTD [CN]	F03D11/00	TOWER BARREL FOR WIND ELECTRIC POWER GENERATION
KR20120073788 A 20120705	KR20100135655 20101227	POSCO [KR]; RES INST IND SCIENCE & TECH [KR]	F03D11/04; E04F15/00	TOWER BLOCK TYPE WIND POWER GENERATION TOWER
CN202381266U U 20120815	CN20112525253U 20111214	JIANGSU JINFENG JIATE ELECTROMECHANICAL CO LTD	F03D11/00	Tower cabin door
CN202380931U U 20120815	CN20112525239U 20111214	JIANGSU JINFENG JIATE ELECTROMECHANICAL CO LTD	E06B5/00; E06B1/52; E06B3/70; E06B7/16; F03D11/00	Tower cabin door for new energy generating set
CN202360308U U 20120801	CN20112524609U 20111214	JIANGSU JINFENG JIATE ELECTROMECHANICAL CO LTD	F03D11/00	Tower cylinder platform of new energy wind energy power generating set
CN202440279U U 20120919	CN20122040115U 20120208	CHUANMING ZHAO	B66F11/00; F03D11/00	Tower drum climbing machine
KR20120128868 A 20121128	KR20110046780 20110518		F03D11/00; F03D1/06	Blade angle adjustment apparatus for Electric Generator using fluid flow
CN102782319 A 20121114	WO2010EP05032 20100817; DE20091040908 20090911	TIMBER TOWER GMBH	F03D11/04; E04H12/06	Tower for a wind power station and method for erecting a tower for a wind power station
CN202391665U U 20120822	CN20112544615U 20111223	JIANGSU HAILI WIND POWER EQUIPMENT TECHNICAL CO LTD	F03D11/04	Tower for intertidal wind power equipment

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CN102720207 A 20121010	CN20121189144 20120608	BEIJING JINFENG KECHUANG WIND POWER EQUIPMENT CO LTD	E02D27/42; F03D11/00	Tower foundation and tower of wind-driven generator
CN202326033U U 20120711	CN20112313892U 20110826	YUNING YAO	F03D11/00	Tower frame of wind driven generator
CN102678480 A 20120919	CN20121152773 20120516	GUANGDONG MINGYANG WIND POWER INDUSTRY GROUP CO LTD	F03D11/00	Tower frame of wind turbine generator set
CN202402221U U 20120829	CN20112531964U 20111216	JIANGSU JINFENG JIATE ELECTROMECHANICAL CO LTD	F03D11/00; B66F11/00	Tower frame with climbing device
AU2010334882 A1 20120705	EP20090306323 20091223; WO2010EP70528 20101222	SOLETANCHE FREYSSINET [FR]	E04H12/16; E04H12/34; F03D11/04	Tower having a pre-stressed concrete column and construction method
KR101182676B B1 20120914	KR20110077233 20110803	KG INC [KR]	B66B11/06; B66B7/06; F03D9/00	TOWER LIFT UP-DOWN STRUCTURE FOR AEROGENERATOR
US2012291833 A1 20121122	US201113112183 20110520	HAND ART [US]	H01L31/042; E04H12/00; F03D11/04; F16M11/00	Tower Mounting Apparatus
CN102720645 A 20121010	CN20121178080 20120531	GUANGDONG MINGYANG WIND POWER INDUSTRY GROUP CO LTD	F03D11/00	Tower of offshore wind turbine generator
CN202391666U U 20120822	CN20122002246U 20120105	ZEYU LI	F03D11/04	Tower of truss structure
WO2012146317 A1 20121101	TR20110004141 20110427	UZTEK ENDUSTRI TESISLERI INSAAT IMALAT VE MONTAJ SANAYI VE TICARET LTD SIRKETI [TR]; UNAN CEVDET [TR]	B21C37/18; F03D1/00; F03D11/00	TOWER PRODUCTION METHOD

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DE102011102473 A1 20121129	DE201110102473 20110525	WAGNER PHILIPP [DE]	F03D11/04	Tower structure for wind energy plants, comprises multiple nested tubes inserted into one another in polygon shape and tubes are interconnected by web, whose cavities are filled with mass
CN202431452U U 20120912	CN20112514562U 20111212	GUANGDONG MINGYANG WIND POWER INDUSTRY GROUP CO LTD	F03D11/00	Tower structure used for supporting fan
KR20120101890 A 20120917	KR20110019988 20110307	DAEWOO SHIPBUILDING & MARINE [KR]	F03D11/00; F03D11/04	TOWER SUPPORTING APPARATUS FOR WIND TURBINE
CN102720644 A 20121010	CN20121135683 20120503	CHINA CREATIVE WIND ENERGY CO LTD	F03D11/00	Tower tube structure
CN102777328 A 20121114	CN20121282908 20120810	WUXI C SOLAR NEW ENERGY TECHNOLOGY LTD	F03D9/00; F03D1/02; F03D1/04; F03D1/06; F03D11/00; H02K7/116	Tower type drag-up wind power recovering generation device
EP2522850 A2 20121114	DE201110101271 20110512	WOELFEL BERATENDE INGENIEURE GMBH & CO KG [DE]	F03D1/00; E04B1/98; E04H12/00; F03D11/04	Tower vibration absorber and tower with same
DE102011014009 A1 20120920	DE20111014009 20110315	CHIO CHUY-NAN [TW]	F03D3/06; F03D3/02	Tower wind-power plant for generating current by kinetic wind energy,
CN102619691 A 20120801	CN20111279979 20110921	SHOUSHENG QIN	F03D9/00; F03D3/06; F03D11/00	Tower-type turbine wind power generation device
CN102619700 A 20120801	CN20121078163 20120317	WEIXIANG YU	F03D9/02; B60K16/00; B60L8/00	Traffic constant-pressure air pump
CA2728588 A1 20120718	CA20112728588 20110118	NIXON NEVILLE PIGOTT [CA]	F03D9/00; F03D5/00; F03G7/00	TRAFFIC DRIVEN WIND TURBINE
CN202419888U U 20120905	CN20112498499U 20111205	UNIV SHANGHAI DIANJI	F24H1/18; F03D9/00; H02N6/00	Train water tank heating system utilizing solar energy and wind energy
WO2012090821 A1 20120705	JP20100289044 20101226	KUBOMURA KENJI [JP]	F03D5/02	TRANSLATIONAL BLADE DRIVE DEVICE FOR WINDMILL OR THE LIKE
CN102536685 A 20120704	CN20111441793 20111227	GUODIAN UNITED POWER TECHNOLOGY LIANYUNGANG CO LTD	F03D11/02; F03D9/00	Transmission chain device of compact-type wind generating set

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WO2012146579 A1 20121101	CH20110000711 20110426	SINELL AG [CH]; MATHIS WALTER [CH]	F16H1/16; F03D11/02	TRANSMISSION FOR CONVERTING ROTATIONAL MOTIONS, TRANSMISSION GEAR FOR SUCH A TRANSMISSION, AND USE OF SUCH A TRANSMISSION
EP2514970 A1 20121024	JP20090284254 20091215; WO2010JP69141 20101028	MITSUBISHI HEAVY IND LTD [JP]	F03D11/02; F03D1/06; F16H3/54	TRANSMISSION FOR WIND POWER GENERATION EQUIPMENT, AND WIND POWER GENERATION DEVICE
CZ24644U U1 20121212	CZ20120026806U 20120817	VATKOVICE MKV S R O [CZ]	F16H3/087; F03D7/00	Transmission of wind power plant drive
CN202370764U U 20120808	CN20112522025U 20111214	NAT WIND ENERGY CO LTD [CN]	F03D11/02; F03D3/06; F03D9/00	Transmission structure of externally hung vertical-axis wind turbine generator and wind turbine generator
EP2505823 A2 20121003	US201113075742 20110330	GEN ELECTRIC [US]	F03D1/00; B66C1/10	Transport frame for nacelle/rotor hub unit of a wind turbine, method of transporting and mounting a nacelle/rotor hub unit
CN102616339 A 20120801	CN20111033443 20110130	SINOVEL WIND GROUP JIANGSU CO LTD	B63B35/00; B63B27/16; F03D11/04	Transport installation ship of wind generation set and ship transport and installation method for wind generation set
CN102628429 A 20120808	EP20110152923 20110201	SIEMENS AG [DE]	F03D11/00	Transport structure and methods for transporting and/or lift-ing a large scale generator
EP2495162 A1 20120905	FR20110051640 20110301	STX FRANCE S A [FR]	B63B1/12; B63B35/00; F03D1/00; F03D11/04	Transport vessel of a wind turbine to an offshore site and method for its implementation
WO2012123480 A1 20120920	DE201110013844 20110314	REPOWER SYSTEMS AG [DE]; SCHULZ BIRGER [DE]; LUETJEN JAN [DE]; GAEDE STEFAN [DE]	F03D1/00	TRANSPORTATION FRAME FOR THE DRIVE TRAIN OF A WIND TURBINE SYSTEM

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CN102616340 A 20120801	CN20111033444 20110130	SINOVEL WIND GROUP JIANGSU CO LTD	B63B35/00; B63B27/10; F03D11/00	Transporting and installing vessel and method for transporting and installing wind turbine generator set using same
EG26025 A 20121211	WO2006EP60926 20060321	TAMINCO [BE]	A23K1/16; A23K1/18; A61K31/197	Treatment of poultry for reducing the feed conversion rate or for reducing the incidence of asites
CN202560479U U 20121128	CN20122169823U 20120420	UNIV XIANGFAN	F03D9/02; H02N2/18	Tree-based generator combined with piezoelectric generating sheets, springs and elastic sheets
CN102644551 A 20120822	CN20111041413 20110221	HUIFENG LIN; XIUMEI HUANG	F03D9/00; F03D1/02; F03D1/04; F03D1/06; F03D3/02; F03D3/04; F03D3/06; F03D7/04; F03D7/06	Triangular column flow guide cover type wind driven generator
TW201233899 A 20120816	TW20110104841 20110215	LIN HUI-FENG [CN]; HUANG HSIU-MEI [CN]	F03D3/00	Triangular- prism air-shroud wind turbine
CN102562439 A 20120711	CN20121012430 20120116	UNIV CHINA AGRICULTURAL	F03D1/06	Triangular prism blade of horizontal-axis wind-driven heating machine
WO2012113130 A1 20120830	WO2011CN71119 20110221	LIN HUI-FENG [CN]; HUANG HSIU-MEI [CN]	F03D3/02	TRIANGULAR PRISM DIVERSION COVER TYPE OF AEROGENERATOR
TWM434828U U 20120801	TW20120201070U 20120117	SUN ROBERT [US]	F03G6/00; F03D5/00	Triple ways power generation device
CN102777333 A 20121114	CN20121254505 20120721	GUANGDONG MINGYANG WIND POWER INDUSTRY GROUP CO LTD	F03D11/04	Truss structure of wind turbine generator set
CN102720640 A 20121010	CN20111078490 20110330	MANG LIN	F03D9/02; F03D3/04; F03D3/06	T-type vertical shaft wind-driven generator containing wind storage device
KR101186769B B1 20120927	KR20110125336 20111128	SONG WON GU [KR]	F03D3/04; F03D11/00; F03D11/02	TUNNEL TYPE MAGNETIC LEVITATION GENERATION APPARATUS WIHT WIND FOWER
ES2385536 A1 20120726	ES20120000509 20120517	MARTOS CARMONA ALFONSO [ES]	F03D3/00; F16C32/04	Turbina con eje de levitaci¾n magnÚtica

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ES2391673T T3 20121128	GB20050016149 20050805; WO2006GB02857 20060801	UNIV STRATHCLYDE [GB]	F03B13/26; F03B3/12; F03B13/10; F03D1/02; H02K7/18; H02K16/00	Turbina con un juego de hÚlices coaxiales
AR082425 A4 20121205	AR2011M102754U 20110729	CUNADO JUAN RODOLFO [AR]	F03D9/00; F24F7/02	TURBINA EOLICA
AR081415 A1 20120829	AR2011P101763 20110523	SONAJALG ANDRES [ET]; SONAJALG OLEG [ET]	F03D11/00; H02K7/18	TURBINA EOLICA
BRPI1102576 A2 20121016	EP20100162687 20100512	SIEMENS AG [DE]	F03D1/04	turbina eólica
BRPI1104839 A2 20121120	BRPI1104839 20111125	DE BARROS MARCELO MONTEIRO [BR]	F03D9/00	turbina eÓlica de energia para ve?culos el?tricos e h?bridos
BRPI1104840 A2 20121120	BRPI1104840 20111125	DE BARROS MARCELO MONTEIRO [BR]	F03D1/00	turbina eÓlica multi-geradora de energia el?trica
CO6480906 A2 20120716	US20090179968P 20090520; US20090179903P 20090520; US20100714913 20100301; US20100714982 20100301	E NET LLC [US]	F03D1/00	TURBINA EÓLICA.
SE1230048 A1 20121117	SE20110030040 20110516; SE20120030048 20120515	KARLSSON BO-HENRIK [SE]	F03D3/06	Turbinblad för vertikala vindturbiner
EG25892 A 20121002	WO2009US38099 20090324; US20080039003P 20080324	NORDIC WINDPOWER [US]	F03D11/02	Turbine and system for generating power from fluidflow and method therefor
WO2012127218 A2 20120927	GB20110004744 20110322	ACASTER JAMES GRAEME [GB]	F03B17/06; F03D3/00; F03D3/04; F03D3/06	TURBINE APPARATUS

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AU2010334621 A1 20120719	GB20090022615 20091224; WO2010GB52156 20101220	TIDAL GENERATION LTD	F03B3/12; F03D1/06	Turbine assemblies
KR20120114885 A 20121017	KR20110032708 20110408	INHA IND PARTNERSHIP INST [KR]	F03B3/12; F03B13/26; F03D1/06	TURBINE BLADE IN KID FORM AND ASSEMBLY METHOD
WO2012112613 A2 20120823	US201113185459 20110718; US201161442761P 20110214; US201161453941P 20110317	CAITIN INC [US]; GEORGIA TECH RES CORP GEORGIA INST OF TECHNOLOGY [US]; LEES PAUL [US]; ENGLAR ROBERT J [US]; BLAYLOCK GRAHAM M [US]	F03D1/06; F03D3/06; F03D11/00	TURBINE BLADES, SYSTEMS AND METHODS
EP2495438 A2 20120905	US201113038495 20110302	GEN ELECTRIC [US]	F03D9/00; F03D7/02	Turbine drive-train apparatus
WO2012156592 A1 20121122	FR20110001476 20110516	PERRIERE BERNARD [FR]	F03D7/04; F03D7/02; F03D9/00	TURBINE HAVING OPTIMISED EFFICIENCY
US2012301283 A1 20121129	US201213481444 20120525; US201161490841P 20110527	FLODESIGN WIND TURBINE CORP [US]	F04D29/40	TURBINE WITH UNEVENLY LOADED ROTOR BLADES
MX2012006061 A 20120823	GB20090020929 20091130; WO2010GB51313 20100809	CROSS FLOW ENERGY COMPANY LTD [GB]	F03D3/04	TURBINE.
UY4377U U 20121130	UY20110004377U 20110425	DIEGO EILENDER [UY]	F03D1/00	TURBINEXTRACTOGENERADOR EOLICO
CN202381260U U 20120815	CN20112522022U 20111214	DENGRONG ZHOU; JIAN ZHOU	F03D9/00; F03D11/00; F03D11/04	Turbofan power generation system

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CN102734073 A 20121017	CN20111085999 20110407; CN20121094460 20120401	JIRONG LU; YAO LU	F03D9/00; B60L8/00; F03D1/02; F03D1/06; H02K13/00	Turbofan-type double-blade horizontal axis axial torque balance wind turbine generator
DE102011003208 A1 20120726	DE201110003208 20110126	REPOWER SYSTEMS SE [DE]	F03D11/00; F03D11/04	Turm einer Windenergieanlage mit Stromleitmitteln
DE102011010417 A1 20120809	DE201110010417 20110207	NORDEX ADVANCED DEV GMBH [DE]	F03D11/04; E04H12/20	Turm für eine Windkraftanlage
CN202300872U U 20120704	CN20112411253U 20111025	SHANGHAI ELECTRIC WINDPOWER EQUIPMENT CO LTD	F03D11/00	Turning gear
CN202451374U U 20120926	CN20122048792U 20120215	SANY ELECTRIC CO LTD	F03D11/00	Turning gear and fan
EP2500590 A1 20120919	JP20090260009 20091113; WO2010JP70084 20101111	THK CO LTD [JP]	F16C29/02; F03D1/00; F03D11/00; F16C21/00; F16C29/06	TURNING STRUCTURE AND HORIZONTAL WIND TURBINE USING SAME
CN102720766 A 20121010	CN20121228199 20120702	BEIJING JINGYE BEARING MANUFACTURE FOR ROLLING MILLS CO LTD	F16C33/78; F03D11/00	Turntable bearing
FI9757U U1 20120823	IT2011MI00329 20110302	WILIC S AR L [LU]	F03D1/065; F03D11/0025	Tuuliturbiini
CN202483807U U 20121010	CN20122074079U 20120301	GUODIAN UNITED POWER TECH CO [CN]	F03D11/00	Twisting cable fixing and separating structure of wind turbine tower
CN202545130U U 20121121	CN20122143324U 20120406	CSIC CHONGQING SEA LOADING WINDPOWER EQUIPMENT CO LTD	F03D11/00	Twisting support ring of tower cable
CN202326021U U 20120711	CN20112451742U 20111115	XINJIANG SHANGNENG SOLAR POWER TECHNOLOGY CO LTD	F03D9/00; F03D3/06; F03D11/00; F16C32/04	Two-way air duct type magnetic suspension wind power generation device
CN102678449 A 20120919	CN20111064487 20110312	YOUQI XIA	F03D7/00; F03D11/00	Typhon air receiver

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CN202489113U U 20121017	CN20122063988U 20120227	UNIV NORTH CHINA ELEC POWER	A01M29/18; A01M29/24; F03D11/00	Ultrasonic protection system for wind driven generator
CN102730792 A 20121017	CN2011191629 20110412	SH GRANDAR LIGHT ART & TECH	C02F1/32; F03D9/00	Ultraviolet device for algae prevention and removal in water bodies
CN202531358U U 20121114	CN20122217102U 20120515	BING YANG	F03D9/00; F03D5/02	Umbrella chain wind generating set
CN102691623 A 20120926	CN20111069093 20110322	NANJING BUJIN MOTOR FACTORY; XIANG HU	F03D9/00; F03D3/00; F03D11/00	Umbrella-shaped chimney-type wind power station
CO6480910 A2 20120716	IE20090000476 20090619; IES20090598 20090731	NEW WORLD ENERGY ENTPR LTD [IE]	F03D1/04	UN SISTEMA DE MEJORA DE PRESION CONTROLADA PARA UNA TURBINA EOLICA
CN102562460 A 20120711	CN20111447892 20111229	UNIV YANSHAN	F03D7/04; F15B1/02	Undamped hydraulic yaw system based on pressure detection and control method of undamped hydraulic yaw system
CN202441540U U 20120919	CN20112559412U 20111229	UNIV YANSHAN	F03D7/00	Undamped hydraulic yawing system based on pressure detection
NO332863B B1 20130128	NO20110000888 20110620	SEATOWER AS [NO]	F03D11/04; E02B17/02; E02D15/06; E02D27/52	Understottelseskonstruksjon for installasjon pa en havbunn
CN102667003 A 20120912	WO2010JP71560 20101202; JP20090274365 20091202	NIPPON STEEL CORP [JP]	E02D27/32; E02B3/06; E02B17/00; E02D27/14; E02D27/52; F03D11/04	Underwater structure, method for constructing same, method for designing underwater structure, and method for modifying same
CA2731297 A1 20120810	CA20112731297 20110210	THOURET BRICE [CA]	F03B17/06; F03D3/00; F03D5/04; F03G3/00	UNDULANT TURBINE
ES2387439 A1 20120921	ES20100001337 20101018	GAMESA INNOVATION & TECH SL [ES]	F03D11/02	UNION ENTRE EL EJE DE ENTRADA DE LA MULTIPLICADORA Y EJE DE GIRO DEL ROTOR.

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CA2764991 A1 20120731	CN20111033983 20110131	SINOVEL WIND GROUP CO LTD [CN]	G01C9/36; F03D11/04	UNIVERSAL PRECISE LEVELING MEASURING DEVICE AND MEASUREMENT METHOD THEREOF
CN202370766U U 20120808	CN20112548380U 20111223	CHINA EPRI ZHANGBEI WIND POWER RES & TEST CO LTD; CHINA ELECTRIC POWER RES INST	F03D11/04	Universal wind power generator set base
CN202348557U U 20120725	CN20112446105U 20111113	HAOZHONG XU	F03D3/00; F03D3/06	Universal wind turbine
CN202348556U U 20120725	CN20112446101U 20111113	HAOZHONG XU	F03D3/00; F03D3/06	Universal wind turbine
CN202417812U U 20120905	CN20112456870U 20111117	DEHENG WANG	F03D3/06	Upper support of vertical shaft wind driven generator blade rotor shaft
CN202338444U U 20120718	CN20112417331U 20111028	HANGZHOU XINLONG WIND POWER TECHNOLOGY CO LTD	F03D3/06	Upright shaft fan-driven generator
CN202441537U U 20120919	CN20122071019U 20120229	ZHANYOU CUI	F03D3/06	Upright shaft wind driven generator fan
CN202468155U U 20121003	CN20112427104U 20111102	LIZHONG TAN	F03D3/06; F03B3/14; F03B3/18; F03D7/06	Upwind or upriver half-circulation automatic blade feathering vertical shaft wind power and water power engine
CN202370762U U 20120808	CN20112526440U 20111216	LUOYANG FENGRE MACHINERY CO LTD	F03D11/00	Upwind-through wind cup and wind collecting disc
MX2011003409 A 20121001	MX20110003409 20110330	ANGUIANO RAMSES DOLORES [MX]	F03D9/00	USE OF KINETIC ENERGY IN THE FORM OF THRUST FORCE TRANSFERRED TO THE AIR BY THE FRICTION OR DRAG OF AN OBJECT IN MOTIO, A TRANSPORT MEANS.
KR20120104573 A 20120921	DE200910058101 20091212	BAYER IP GMBH [DE]	B32B27/40; B32B27/12; F03D1/06; F03D3/06	USE OF LAYER SUPERSTRUCTURES IN WIND POWER PLANTS
KR20120080688 A 20120718	KR20110002042 20110109	HWANG YUN SANG [KR]	B60Q7/00; F03D11/00	USING A SAFETY TRIANGLE WIND DEVICE

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KR20120119413 A 20121031	KR20110037317 20110421	KYUNGPOOK NAT UNIV IND ACAD [KR]	F03D7/00; F03D7/04	USING BUOYANCY GENERATOR
CN102778045 A 20121114	CN20121274295 20120726	LINGSONG MENG	F24J2/00; F03D9/00	Vacuum solar brick air duct well power station, refueling station and other multifunctional equipment
CN102536677 A 20120704	CN20101600233 20101222	SHANGHAI AEOLON WIND ENERGY TECHNOLOGY DEV CO LTD	F03D11/00; H01T19/00	Vane lightning arrestor for wind power generation
CN202326034U U 20120711	CN20112432150U 20111103	SANY ELECTRIC CO LTD	F03D11/00	Vane rain cover and wind driven generator
CN202431457U U 20120912	CN20112567227U 20111230	SINOVEL WIND GROUP CO LTD [CN]	F03D11/00	Vane root structure for wind power generator and vane
RU2463473 C1 20121010	RU20110114063 20110411	JAKIMOV VADIM IVANOVICH [RU]	F03D1/00	VANE-SAIL WIND POWER PLANT
CN102782310 A 20121114	WO2011GB50355 20110223; GB20100003003 20100223; GB20100013773 20100817	ARTEMIS INTELLIGENT POWER LTD	F03D1/00; F03D9/00; F03D11/02; F04B1/053	Variable displacement radial piston fluid working machine
GB2487810 A 20120808	GB20110001646 20110131	ROMAX TECHNOLOGY LTD [GB]	F16H57/02	Variable offset transfer box for use in a test rig for testing rotating machines
CN202510280U U 20121031	CN20122160057U 20120416	RENERGY ELECTRIC SUZHOU CO LTD	F03D7/00	Variable pitch control system
CN202510281U U 20121031	CN20122164083U 20120418	RENERGY ELECTRIC SUZHOU CO LTD	F03D7/00	Variable pitch control system during low voltage ride through process
CN102758726 A 20121031	CN20111103837 20110425	SINOVEL WIND GROUP CO LTD [CN]	F03D7/00; F03D9/00	Variable pitch control system, variable pitch control method and wind generating set
CN102678451 A 20120919	CN20111160081 20110615	SINOVEL WIND GROUP CO LTD [CN]	F03D7/00	Variable pitch propeller control method for wind generating set

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CN102748211 A 20121024	CN20121204269 20120620	WUXI CHIRUN SHEET METAL MACHINERY MFG CO LTD	F03D7/00; H02J7/00; H05K5/02; H05K7/20	Variable pitch structure convenient for overhauling capacitor device of wind power generation system
CN102748209 A 20121024	CN20121204263 20120620	WUXI CHIRUN SHEET METAL MACHINERY MFG CO LTD	F03D7/00; H02J7/00; H05K5/02	Variable pitch structure of high-power wind power generation system
CN102536653 A 20120704	CN20121018457 20120119	A & C INST OF SHENYANG UNIVERSITY OF TECHNOLOGY	F03D7/00	Variable pitch system belonging to independent variable pitch wind generating set and having protection function
CN102678450 A 20120919	CN20111066883 20110318	SINOVEL WIND GROUP CO LTD [CN]	F03D7/00; F03D9/00	Variable propeller control system of wind turbine generator system and wind turbine generator system
CN202300828U U 20120704	CN20112373287U 20111008	ZHONGYUAN LU	F03D1/06; F03D7/02	Variable propeller pitch stay wire wind wheel
NZ581669 A 20121130	GB20070011043 20070608; US20070942675P 20070608; WO2008GB01953 20080606	ORBITAL 2 LTD	F16H47/04; F03D11/02	Variable ratio transmission for providing a constant speed output from a prime mover input
CN102650265 A 20120829	CN20111044786 20110225	JIANYONG SHI	F03D9/00; F03D3/06; F03D7/06	Variable sail type wind power generation system
CN102545474 A 20120704	US20100970406 20101216	GEN ELECTRIC [US]	H02K7/18; F03D9/00; H02K7/20; H02P9/14	Variable speed machine assembly and method for making the same
KR20120103966 A 20120920	KR20110021974 20110311	SAMSUNG HEAVY IND [KR]	F03D7/00; F03D11/00; H02P9/04	VARIABLE SPEED WIND TURBINE SYSTEM
CN102720634 A 20121010	CN20121234372 20120709	UNIV LANZHOU JIAOTONG	F03D7/00	Variable universe fuzzy electric pitch control method for optimizing parameters
CN102678454 A 20120919	CN20111059345 20110314	HAIBING ZHU	F03D7/06	Variable-angle fan blade control device
CN102767477 A 20121107	CN20111113520 20110503	MANHE DU	F03D9/00; F03D3/00; F03D3/06; F03D7/06	Variable-paddle type vertical axis wind turbine

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CN102748395 A 20121024	CN20121243164 20120710	ZHUJI CHENGFANG MACHINERY CO LTD	F16C33/58; F03D11/00; F16C33/62; F16C33/64	Variable-pitch bearing for wind power generator
CN102536654 A 20120704	CN20121026747 20120207	GUODIAN UNITED POWER TECH CO [CN]	F03D7/00	Variable-pitch control method of variable-speed constant frequency wind turbine at pitching-in stage
CN202441541U U 20120919	CN20122018530U 20120116	SINOVEL WIND GROUP CO LTD [CN]	F03D7/00	Variable-pitch control system for wind generation set
CN202360300U U 20120801	CN20112471912U 20111124	ZHEJIANG HUAYING WIND POWER GENERATOR CO LTD	F03D7/00	Variable-pitch linear driving mechanism for small and medium-sized wind driven generators
CN102678467 A 20120919	CN20121167105 20120528	UNIV HARBIN ENG	F03D9/00; F03D7/06; F03D11/02	Variable-pitch vertical-shaft wind turbine
CN202326037U U 20120711	CN20112455097U 20111116	DALIAN EASY SOUND ELECTROMECHANIC CO LTD	F03D11/00; F03D7/00; H01R39/39	Variable-propeller slip ring
CN102654106 A 20120905	CN20121147334 20120514	CHINA CREATIVE WIND ENERGY CO LTD	F03D11/02; F03D7/00	Variable-ratio speed regulation device
CN202300864U U 20120704	CN20112329573U 20110905	SHANDONG SHUANGYI GROUP CO LTD	F03D11/00	Variable-section glass-reinforced-plastic wood reinforcing rib
TW201229385 A 20120716	KR20100074721 20100802	LEE IN-NAM [KR]	F03D11/00; F03D3/00	Varible windmill wing wind power generator having power generation efficiency increasing means
NZ591345 A 20120727	NZ20110591345 20110224	HOLYMA LTD [NZ]	F03D11/04; F03D9/00	Vehicle mounted wind powered generator with air temperature, density, and humidity sensor, battery, discharge device, and ac/dc convertor
JP2012177354 A 20120913	JP20110041789 20110228	TOYODA GOSEI KK	F03D9/00; F03D3/04; F03D3/06	VEHICLE-MOUNTED WIND POWER GENERATOR
CN102602298 A 20120725	CN20121090931 20120331	LICHENG YANG	B60L8/00; F03D9/00	Vehicular breeze generating system

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AR081238 A1 20120718	DE201010003694 20100407; DE201010042783 20101021	WOBBEN ALOYS [DE]	B60P3/022; B60P3/40; F03D11/04; F03D11/6	VEHICULO DE TRANSPORTE PARA PALETAS DE ROTOR DE INSTALACIONES DE ENERGIA EOLICA Y/O SEGMENTOS DE TORRE Y BASTIDOR DE TRANSPORTE PARA UN VEHICULO DE TRANSPORTE
US8283799 B1 20121009	US201113214160 20110820; US20100375268P 20100820	THORPE EDWARD L [US]	F03D9/00; H02P9/04	Vent turbine generator
CN102748244 A 20121024	CN20121244359 20120713	GUODIAN UNITED POWER TECH CO [CN]	F03D11/00; F28F19/01	Ventilating and filtering heat exchange device and method of offshore wind driven generator set
CN102748245 A 20121024	CN20121245043 20120713	GUODIAN UNITED POWER TECH CO [CN]	F03D11/00; F28F19/01	Ventilating and filtering heat exchange device and method of onshore wind driven generator set
KR20120111340 A 20121010	KR20110029764 20110331	SOLRADIO INC [KR]	E04D13/16; F03D11/02; F24F7/02	VENTILATION DEVICE USING THE WINDPOWER
KR20120082567 A 20120724	KR20110003911 20110114	DAEWOO SHIPBUILDING & MARINE [KR]	B63J2/02; B63J99/00; F03D3/00	VENTILATION EQUIPMENT FOR SHIP WITH ELECTRICITY GENERATION FUNCTION
US2012280514 A1 20121108	DE201120100173U 20110503	POWERWIND GMBH [DE]	F03D9/00	VENTILATION SYSTEMS FOR A WIND TURBINE GENERATOR SYSTEM
DE102011015858 B3 20120802	DE201110015858 20110401	REPOWER SYSTEMS AG [DE]	F03D7/02; F03D11/00	Verfahren und Vorrichtung für Schnell-Ölwechsel an Antriebseinrichtungen von Windenergieanlagen
DE102011003164 A1 20120726	DE201110003164 20110126	WOBBEN ALOYS [DE]	F03D11/04	Verfahren und Vorrichtung zum Errichten eines Turms einer Windenergieanlage
DE102011003483 A1 20120802	DE201110003483 20110202	BOSCH GMBH ROBERT [DE]	F03B17/06; F03D5/00; F03D9/00	Verfahren und Vorrichtung zur Wandlung von Energie
DE102011009995 A1 20120802	DE201110009995 20110201	IAG MAGNUM GMBH [DE]	E02D27/42; E02D27/52; F03D11/04	Verfahren zum Aufbau eines Mastes für insbesondere OFF-SHORE-Windenergieanlagen

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DE102011003799 B3 20120802	DE201110003799 20110208	WOBBEN ALOYS [DE]	F03D7/00	Verfahren zum Bestimmen entgangener Energie
DE102011086608 A1 20120712	DE201010044083 20101117; DE201110086608 20111117	SUZLON ENERGY GMBH [DE]	F03D7/02	Verfahren zum Bestimmen von Betriebszuständen einer Windturbine
DE102011076648 A1 20121129	DE20111076648 20110527	MAX BOEGL WIND AG [DE]	F03D11/04	Verfahren zum Errichten einer Windkraftanlage
DE112010005081T T5 20121122	WO2010IB00235 20100105	YAQUB MUHAMMAD [DE]	F03D1/00; E04H12/12; E04H12/34; F03D11/04	Verfahren zum Errichten eines Mastes f³r einen Windturbinengenerator, Windturbinenmast, Windturbinengenerator und Windpark
DE102011077651 A1 20121220	DE20111077651 20110616	WOBBEN ALOYS [DE]	H02P9/14; F03D7/00; H02K19/36; H02P9/02	Verfahren zum Steuern einer Windenergieanlage
DE112010004883T T5 20120927	EP20090015736 20091218; WO2010EP64319 20100928	SIEMENS AG [DE]	E02D27/42; F03D1/00; F03D11/04	Verfahren zur Konstruktion eines Turms einer Windkraftanlage und Turm
WO2012107617 A1 20120816	ES20110030128U 20110210	ORTUNO SORIANO JOSE [ES]	F03D3/00; F03D3/02; F03D3/06; F03D9/00	VERTICAL ADVERTISING WIND TURBINE
CN202531355U U 20121114	CN20122185527U 20120427	DONGGUAN KEWANG NETWORK ENERGY CO LTD	F03D9/00; F03D3/06	Vertical asymmetric wind power generator
CN202468157U U 20121003	CN20122096357U 20120315	JUNTING HAN	F03D3/06; F03D9/00	Vertical axis fan blade closing and opening windmill
EP2479424 A1 20120725	ES20100001467 20101215	ARIZNABARRETA GARABIETA JOSEBA [ES]	F03D3/06; F03D3/00; F03D9/00	Vertical axis micro wind generator
FR2973450 A1 20121005	FR20110052846 20110402	FAUST JEAN-PHILIPPE [FR]	F03D3/00; F03D3/04; F03D3/06	Vertical axis renewable energy producing unit for producing renewable energy to e.g. heat high-rise building in urban environment, has hollow tube rotatably mounted in cylindrical device, where gimlet is mounted in inner side of hollow tube

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KR20120092342 A 20120821	KR20110012337 20110211	DONG HAE ENGINEERING CO LTD [KR]	F03D3/06; F03D11/00	VERTICAL AXIS TURBINE FOR WIND POWER GENERATION HAVING DOUBLE BLADE OF WING TYPE
FR2973843 A1 20121012	FR20110001110 20110411	OURY ALAIN [FR]	F03D3/02; F03D3/04	Vertical axis twin-rotor wind turbine for converting wind energy into electrical energy, has geared motor devices and driving wheels for orientation of turret, and mechanical drive driving energy recovered by blade for electric generator
KR20120129202 A 20121128	KR20110047309 20110519		F03D9/00; F03D3/04; F03D3/06	Wind Power Generation Rotor Installed on Road and Wind Power Generation System Using the Same
CN202474987U U 20121003	CN20122130721U 20120329	JIEYING SHI	H02J7/14; F03D9/00	Vertical axis type wind power generation charger
KR20120139154 A 20121227	KR20110058793 20110617	OH YOUNG LOK [KR]; KIM HYEONG JU [KR]; YOON CHANG JU [KR]; RYU BYOUNG SOO [KR]; KWACK KAE DAL [KR]	F03D3/06; F03D11/00	VERTICAL AXIS TYPE WIND POWER GENERATOR FUSED LIFT AND DRAG
KR20120104397 A 20120920	WO2010US20145 20100105	AARON MICHAEL [US]	F03D3/00; F03D3/04; F03D11/00	VERTICAL AXIS VARIABLE GEOMETRY WIND ENERGY COLLECTION SYSTEM
CN102678460 A 20120919	CN20111064781 20110317	YONGBING YANG; YUAN YANG	F03D9/00; F03D3/04; F03D3/06	Vertical axis wind generation device
EP2534375 A1 20121219	IT2010GE00015 20100209; WO2011IB50545 20110209	NATURAMICA SOCIETA COOPERATIVA [IT]	F03D3/04; F03D3/06	VERTICAL AXIS WIND GENERATOR
CN202326020U U 20120711	CN20112450851U 20111115	YUNLONG SUN	F03D9/00; F03D11/00	Vertical axis wind generator

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CN202348569U U 20120725	CN20111229267 20110811; CN20112395850U 20111014	YUNHE DENG	F03D9/00; B66C23/18; F03D3/02; F03D3/06; F03D7/06; F03D11/00; F03D11/02; F03D11/04	Vertical axis wind generator
CN202520478U U 20121107	CN20122172354U 20120423	YANGKUN XU	F03D3/06; F03D9/00	Vertical axis wind generator blade and vertical axis wind generator
CN202531354U U 20121114	CN20122211601U 20120512	XIAMEN RUISIDA ELECTROMECHANICAL TECHNOLOGY CO LTD	F03D3/06; F03D7/06	Vertical axis wind power generation device capable of automatically adjusting attack angle
CN102767471 A 20121107	CN20121263350 20120727	SHANDONG TAISHAN RUIBAO COMPOSITE MATERIAL CO LTD; TAISHAN SPORTS INDUSTRY GROUP	F03D3/06; B29C70/34; B32B1/00	Vertical axis wind power generator blade and manufacturing method thereof
CN202545119U U 20121121	CN20122128769U 20120330	YANGZHOU SHENZHOU WIND DRIVEN GENERATOR CO LTD	F03D9/00; F03D3/06	Vertical axis wind turbine
US2012269629 A1 20121025	US201213541382 20120703; US20080148875 20080422; US20070989877P 20071123	KELLY SAMUEL THOMAS [US]	F03D7/06; F03D3/02	VERTICAL AXIS WIND TURBINE
CN102536643 A 20120704	CN20121011801 20120116	UNIV HARBIN ENG	F03D3/06; F03D7/06	Vertical axis wind turbine
US2012243990 A1 20120927	US201113065372 20110321	KOSCH ALOIS J [US]	F03D3/06	Vertical axis wind turbine
KR101181596B B1 20120910	KR20110024297 20110318	JKENG CO LTD [KR]	F03D3/02; F03D3/06; F03D11/02	VERTICAL AXIS WIND TURBINE
CN102606401 A 20120725	CN20121076415 20120321	UNIV CHONGQING	F03D7/06; F03D3/06; F03D9/00	Vertical axis wind turbine and turning radius adjusting mechanism of paddles of vertical axis wind turbine

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CN102619690 A 20120801	CN20121127845 20120427	ERLI ZHENG; CHUNHUA ZHAO	F03D7/06; F03D3/00	Vertical axis wind turbine capable of adjusting attack angle by using wind power
FR2972502 A1 20120914	FR20110000714 20110310	TAULEANU MIHAIL ALEXEI [MD]; CHIMIRCIUC ELENA [MD]; CONDRAT VICTORIA [MD]; DUSCIAC DORIN [FR]	F03D3/04; F24F13/08	Vertical axis wind turbine for production of electrical energy, has movable part fixed to center of static part, where movable part includes vertical axle driven in rotation by pallets receiving air guided through guiding walls
CN202417835U U 20120905	CN20122017205U 20120113	GUOKUN LI; SHUYING WEN	F03D9/02; F03D3/06	Vertical axis wind turbine integrated with solar power generation components
CN202300834U U 20120704	CN20112416924U 20111027	WENZHOU HUALI WINDPOWER DEV CO LTD	F03D3/06	Vertical axis wind turbine rotor-connecting arm
KR20120117282 A 20121024	KR20110034948 20110415	LIM CHUN SIK [KR]	F03D3/02; F03D3/06; F03D11/00	VERTICAL AXIS WIND TURBINE WHICH IS VERTICALLY STACKABLE
GB2489325 A 20120926	GB20110004746 20110322	MARSHALL JOHN TIMOTHY JAMES [GB]	F03D3/06; F03D3/00; F03D11/04	Vertical axis wind turbine with curved blades
CN102562463 A 20120711	CN20101589394 20101215	HIWIN MIKROSYSTEM CORP	F03D9/00; F03D3/02; F03D7/06	Vertical axis wind turbine with foldable blades
US2012211992 A1 20120823	US201213455091 20120424; US20080151600 20080508; US20070715143 20070307	BOONE DANIEL N [US]	F03D9/00; F03D3/06	VERTICAL AXIS WIND TURBINE WITH MULTIPLE FLAP VANES
EP2510228 A1 20121017	US20090636334 20091211; WO2010CA01777 20101103	JANIUK PETER [CA]	F03D3/06; F01D5/14	VERTICAL AXIS WIND TURBINE WITH SELF-STARTING CAPABILITIES
AU2012244194 A1 20121115	AU20060247135 20060515; AU20120244194 20121025	UNIV CALIFORNIA [US]	F03B13/00; F03B13/10; F03D9/00; H02P9/04	Vertical Axis Wind Turbines

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US2012269627 A1 20121025	US201113092902 20110422	GRAHAME WILLIAM [US]	F03D7/06	VERTICAL AXIS WINDMILL SYSTEM
KR20120129208 A 20121128	KR20110047320 20110519		F03D1/04	APPARATUS FOR A TOWER OF A WIND TURBINE
CN202391648U U 20120822	CN20112427350U 20111102	SHANGHAI RUIKUN NEW ENERGY TECHNOLOGY CO LTD	F03D3/06	Vertical axis-superposed multilayer V-shaped wing fan for breeze power generating and heating supply device
CN102720638 A 20121010	CN20121234873 20120709	XIN ZHAO	F03D9/00; F03D3/06; F03D11/02	Vertical blade floating windmill tooth-jointed super-huge type wind generating set
CN202326013U U 20120711	CN20112377706U 20111008	ZHIPING HUANG; YUEFENG HUANG	F03D9/00; F03D3/06; F03D11/00; H02K11/00	Vertical double-shaft wind power generation device
CN202391659U U 20120822	CN20112579693U 20111224	YUANSHUN YAO	F03D9/00; F03D3/00; F03D3/06	Vertical drum type movable blade wind power generation device
CN202300876U U 20120704	CN20112448687U 20111114	WANPING DING	F03D11/00; F16C35/12	Vertical full suspension structure wind power generator
CN202451370U U 20120926	CN20122072689U 20120229	WEI HUA	F03D9/00; F03D3/06	Vertical lift type blade ventilation generator
CN102734064 A 20121017	CN20121250294 20120719	JIANGSU YUANZHONG DC MICROGRID CO LTD	F03D3/06; F03D9/00; F03D11/00	Vertical magnetic suspension wind driven generator with internal resistance type blades
CN102758735 A 20121031	CN20121251636 20120719	JIANGSU YUANZHONG DC MICROGRID CO LTD	F03D9/00; F03D3/00	Vertical magnetic-suspension wind driven generator with internal resistance type vanes
CN102777329 A 20121114	CN20121246627 20120717	NANTONG MAILONG ENERGY EQUIPMENT CO LTD	F03D9/02; F03D3/06; F03D11/00; F21V21/14	Vertical main shaft wind wheel adjustable wind and optical complementary structure

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US2012288357 A1 20121115	US201213488400 20120604; US20100834722 20100712; US20090355411 20090116; US20060608658 20061208; US20050766003P 20051229	KRIPPENE BRETT C [US]	F03D7/06	VERTICAL MULTI-PHASED WIND TURBINE SYSTEM
CN202431446U U 20120912	CN20112369656U 20110928	SHANGHAI HING HIVE BUILDING MATERIALS CO LTD	F03D9/00; F03D3/06; F03D7/06	Vertical shaft aerogenerator
CN202431445U U 20120912	CN20112369642U 20110928	SHANGHAI HING HIVE BUILDING MATERIALS CO LTD	F03D9/00; F03D3/06; F03D11/00	Vertical shaft aerogenerator prepared by honeycomb plates
CN202545108U U 20121121	CN20122217336U 20120515	HUANGHE SEIENCE & TECHNOLOGY COLLEGE	F03D3/06; B32B9/02; B32B9/04	Vertical shaft lifting type wind wheel blade and blade plate of vertical shaft lifting type wind wheel blade
CN102606411 A 20120725	CN20121116248 20120420	XINMIN LI	F03D9/02; F03D3/02; F03D3/06; F03D7/06	Vertical shaft multi-state dual-blade bidirectional rotation wind
CN202370756U U 20120808	CN20112560252U 20111228	WENZHOU OUTELAI TECHNOLOGY CO LTD	F03D9/00; F03D11/00; F03D11/02	Vertical shaft type fan tower top device and vertical shaft type wind driven generator
CN202560470U U 20121128	CN20122162687U 20120417	HONGYI YU	F03D9/00; F03D3/06	Vertical shaft type universal wind driven generator
CN202560472U U 20121128	CN20122162689U 20120417	HONGYI YU	F03D9/00; F03D3/06	Vertical shaft type wind driven generator
CN202520483U U 20121107	CN20122171306U 20120420	WENZHOU OUTELAI TECHNOLOGY CO LTD	F03D9/00; F03D7/06; F03D11/00	Vertical shaft type wind driven generator with brake system
CN202468170U U 20121003	CN20122109229U 20120316	JIANFU ZHAO	F03D9/00; F03D3/00	Vertical shaft type wind power-generating equipment

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CN202348567U U 20120725	CN20112364456U 20110927	YONGSHENG ZHAO	F03D7/06	Vertical shaft wind generator stopper
AU2010342640 A1 20120726	CN20101022775 20100114; WO2010CN78904 20101119	SHANGHAI FANHONG ENVIRONMENTAL PROT TECHNOLOGY DEV CO LTD	F03D7/06; F03D3/06	Vertical shaft wind power generating system and blade angle automatic regulating device thereof
CN202545117U U 20121121	CN2012293939U 20120313	UNIV NORTH CHINA ELEC POWER	F03D9/00; F03D3/00	Vertical shaft wind power generation system by using wind energy of subway tunnel
CN202300848U U 20120704	CN20112375781U 20110928	JIAHAO NEW ENERGY INVEST CO LTD	F03D9/00; F03D3/04; F03D3/06; F03D11/00	Vertical shaft wind power generation system for deserts
CN202326007U U 20120711	CN20112427377U 20111102	SHANGHAI RUIKUN NEW ENERGY TECHNOLOGY CO LTD	F03D3/06; F03D7/06	Vertical shaft wind power heating and generating superimposed multi-layer V-shaped wing variable-pitch variable-speed blade
CN102734062 A 20121017	CN20121224052 20120614	XUEZHANG WANG	F03D3/06; F03D7/06; F03D11/00	Vertical shaft wind scoop type universal windmill
CN102619679 A 20120801	CN20111030812 20110128	FENG LI	F03D3/06; F03D9/00	Vertical shaft wind wheel and wind generating set with same
CN202560471U U 20121128	CN20122162688U 20120417	HONGYI YU	F03D9/00; F03D3/04; F03D3/06	Vertical shaft wind-energy generator
CN202520480U U 20121107	CN20122185683U 20120427	ERLI ZHENG; CHUNHUA ZHAO	F03D7/06; F03D3/00	Vertical shaft windmill for adjusting attack angle by using wind power energy
KR20120088133 A 20120808	KR20110009266 20110131	PARK JOON KOOG [KR]	F03D9/00; F03G6/06; F24J2/02	VERTICAL SOLAR AND WIND POWER GENERATION APPARATUS
CN202300859U U 20120704	CN20112448570U 20111114	WANPING DING	F03D9/00; F03D11/00	Vertical suspension structure wind-driven generator
CN202545123U U 20121121	CN20122198320U 20120504	WEIWU ZHOU	F03D9/00; F03D11/00	Vertical type double rotational flow wind power generation device

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CN202417836U U 20120905	CN20112178311U 20110526; CN20122034114U 20120117	XIAOYING HU	F03D9/02; F03D3/04; F03D7/06	Vertical type energy collecting wind driven generator
CN102797636 A 20121128	CN20111143335 20110526	XIAOYING HU	F03D9/00; F03D5/04; F03D11/00	Vertical type energy-gathering wind driven generator
CN102734087 A 20121017	CN20121234386 20120709	UNIV NANJING AERONAUTICS	F03D11/00; F16C32/04	Vertical type wind driven generator with long service life and high efficiency
TW201241303 A 20121016	TW20110111507 20110401	CHEN WEN-YUN [TW]	F03D3/00	Vertical type wind power generator
KR20120116199 A 20121022	KR20110033800 20110412	WESTERN ENERGY TECHNOLOGIES [KR]	F03D3/06; F03D3/02; F03D11/00	VERTICAL TYPE WINDPOWER GENERATION APPARATUS HAVING PLURAL LAYER
CN102562443 A 20120711	CN20121067216 20120314	SHUGUANG LI; HARBIN HIGH POWER VERTICAL WIND POWER EQUIPMENT ENGINEERING TECHNOLOGY RES CT CO LTD	F03D3/06	Vertical wind power aluminium alloy fan blade system
KR20120129413 A 20121128	KR20110047655 20110520		F03D7/00; F03D11/00	STATUS DEFINITION METHOD AND CONTROL METHOD FOR WIND TURBINE SYSTEM
KR20120112908 A 20121012	KR20110030490 20110404	KBID CO LTD [KR]	F03D3/00; F03D3/04; F03D7/06	VERTICAL WIND POWER GENERATION SYSTEM
CN102691627 A 20120926	CN20121162972 20120521	SHUGUANG LI	F03D9/00; F03D3/02; F03D3/04; F03D3/06; F03D11/00	Vertical wind power generation system of multi-layer reinforced concrete frame and butt combined fan blade
KR101117476B B1 20120904	KR20110071243 20110719	GU CO LTD [KR]	F03D3/06; F03D11/00	VERTICAL WIND POWER GENERATO

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US2012195757 A1 20120802	US201213350020 20120113; SE20110000069 20110202; US201161438656P 20110202	PAULIN MOTOR COMPANY AB [SE]	F03D7/06	VERTICAL WIND POWER GENERATOR
BG1579U U1 20120731	BG20120002171U 20120327	ZHELEV ZHELCHO [BG]	F03D3/06; F03D3/00; F03D11/00	VERTICAL WIND TURBINE
WO2012138129 A2 20121011	KR20110030537 20110404	RHO YOUNG-GYU [KR]	F03D3/06; F03D11/00	VERTICAL WIND-POWER GENERATING APPARATUS HAVING MOVABLE BLADES
KR20120077523 A 20120710	KR20100139504 20101230	UNIV ULSAN FOUND FOR IND COOP [KR]	F03D3/06; F03B13/12; F03D11/00	VERTICAL WING STRUCTURE OF TURBINE USING WIND POWER OR WATER POWER
CN102588209 A 20120718	CN20121037882 20120217	BEIJING SHIGUANG LONGTENG WINDPOWER TECHNOLOGY DEV CO LTD	F03D3/06	Vertical-axis fan blade
CN102661242 A 20120912	CN20121149730 20120515	HUANGHE S & T COLLEGE	F03D3/06; B29C65/52; B29C70/38	Vertical-axis lift-force type wind wheel blade, vertical-axis lift-force type wind wheel blade board and corresponding manufacture methods thereof
CN102536640 A 20120704	CN20121013951 20120117	XIANGHUA CHENG	F03D3/00; F03D11/04	Vertical-axis movable-blade sail wheel type universal fluid kinetic-energy receiving device
CN102705171 A 20121003	CN20121234872 20120709	XIN ZHAO	F03D9/00; B63B35/00; F03D3/06; F03D11/00	Vertical-axis super-large wind turbine generator system structure with double struts and water-floating boats
CN202513538U U 20121031	CN20122171982U 20120420	WENZHOU OUTELAI TECHNOLOGY CO LTD	H02G13/00; F03D9/00; F03D11/04	Vertical-axis type wind driven generator and lightning protection system thereof
KR20120129429 A 20121128	KR20110047677 20110520		F03D3/06; F03D7/02; F03D11/00	Aerogenerator equipped with Dual Rotating Airfoil

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US2012183407 A1 20120719	US201213425843 20120321; US20100886557 20100920; US20090244847P 20090922	VALLEJO ROBERTO [US]	F03D11/02	VERTICAL-AXIS WIND TURBINE
CN102562441 A 20120711	CN20121022212 20120201	UNIV SOUTH CHINA AGRICULT	F03D3/06; F03D9/00	Vertical-axis wind turbine with counterweights
GR20110100003 A 20120903	GR20110100003 20110103	KARAMOLEGKOS STAMATIS NIKOLAOU [GR]	F03D3/00	VERTICAL-AXLE WIND GENERATOR WITH HORIZONTAL HOLLOW BLADES
CN202369227U U 20120808	CN20112497830U 20111202	INTERCONTINENTAL UNITED CHAULEN TECHNOLOGY BEIJING CO LTD; ZONGQUAN XIA	B66B7/02; B66B5/02; B66B5/14; B66B7/10; B66B11/02; F03D11/00	Vertical-lift hanging basket
CN202417817U U 20120905	CN20122054122U 20120217	BEIJING SHIGUANG LONGTENG WINDPOWER TECHNOLOGY DEV CO LTD	F03D3/06	Vertical-shaft fan blade
CN202431434U U 20120912	CN20122020567U 20120117	XIANGHUA CHENG	F03D1/06; F03B3/12	Vertical-shaft loose sailing boat-type universal fluid kinetic energy receiving device
CN202300833U U 20120704	CN20112416702U 20111027	WEN ZHANG	F03D3/06	Vertical-shaft loose-leaf wind turbine
CN102691629 A 20120926	CN20121208145 20120615	GUOXIAN HU	F03D9/00; F03D11/02	Vertical-shaft right-angle transmission type double-fan blade wind energy generator
CN202560458U U 20121128	CN20122162686U 20120417	HONGYI YU	F03D3/00; F03D3/06	Vertical-shaft universal wind-driven generator using air in nature
CN202300832U U 20120704	CN20112374813U 20110929	WEILIN WANG	F03D3/02; F03D3/06	Vertical-shaft wind driven generator
CN202560460U U 20121128	CN20122153358U 20120412	HEBEI YOUHE ENERGY TECHNOLOGY CO LTD	F03D3/06	Vertical-shaft wind driven generator wind blade

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CN202338448U U 20120718	CN20112498568U 20111205	WANZHU XU	F03D9/00; F03D3/02; F03D11/00	Vertical-shaft wind power generation device
CN202560456U U 20121128	CN20122162682U 20120417	HONGYI YU	F03D3/00; F03D3/06	Vertical-shaft wind-driven generator
DE102011004723 A1 20120830	DE201110004723 20110225	BAYER MATERIALSCIENCE AG [DE]	F03D1/06	Verwendung von Schichtaufbauten in Windkraftanlagen
EP2487364 A2 20120815	US201113023567 20110209	GEN ELECTRIC [US]	F03D1/00; B63B35/00	Vessel and method for mounting an offshore wind turbine
US2012219364 A1 20120830	CN20091241617 20091127; WO2010CN01683 20101025	SINOVEL WIND GROUP CO LTD [CN]	F03D11/04; B63B25/00	VESSEL AND METHOD FOR TRANSPORTING AND HOISTING THE OFFSHORE WIND TURBINE GENERATOR SYSTEM
US2012267207 A1 20121025	WO2011JP59932 20110422	MITSUBISHI HEAVY IND LTD [JP]	F16F15/00; F16F7/00; F16F7/10; F16F7/104	VIBRATION CONTROL APPARATUS, WIND TURBINE GENERATOR AND VIBRATION
WO2012090259 A1 20120705	WO2010JP73514 20101227	MITSUBISHI HEAVY IND LTD [JP]; MITSUBISHI HEAVY IND BRIDGE & STEEL STRUCTURES ENGINEERING CO LTD [JP]; KAWABATA MINORU [JP]; KUBO ATSUSHI [JP]	F03D11/04	VIBRATION CONTROL DEVICE FOR WINDMILL FOR WIND-POWERED ELECTRICITY GENERATION, AND WINDMILL FOR WIND-POWERED ELECTRICITY GENERATION
CN202326899U U 20120711	CN20112473493U 20111124	SINOVEL WIND GROUP CO LTD [CN]	F16F15/023; F03D11/00; F16F15/08	Vibration damper
US2012326536 A1 20121227	US201113333173 20111221; US201061425753P 20101221; US201161482146P 20110503	OSCILLA POWER INC [US]	H01L41/06; F03B13/02	VIBRATION ENERGY HARVESTING APPARATUS

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NO20120360 A 20120926	NO20110000462 20110325; NO20120000360 20120325	BRAGSTAD KRISTIAN [NO]	F03B13/18; F03D11/04	Vind- og bolgekraftmaskiner, og arrangementer for bruk av slike maskiner, saerlig i kraftanlegg med hydraulisk trykkenergi som mellomledd.
DK2402605T T3 20121217	EP20100168260 20100702	SIEMENS AG [DE]	F03D11/04; E04H12/08; F16B5/02	Vindm÷lletÕrn
DK2321531T T3 20121210	US20080283254 20080910; WO2009US05037 20090908	MOOG INC [US]	F03D7/02; F03D9/02	Vindm÷llevingepitchstyresystem
DK201100101U U3 20121012	DK20110000101U 20110620	HCP INNOVATION APS [DK]	B29C53/82; F03D1/06	Vingeproduktion, vingedorn understöttelse og opvarmningssystem
EP2522859 A2 20121114	JP20110108537 20110513	TOSHIBA KK [JP]	F04D29/32; F04D29/68	Voltage application device, rotation apparatus and voltage application method
DE102011001250 A1 20120920	DE20111001250 20110314	STRABAG OFFSHORE WIND GMBH [DE]	E04H12/02; E04H12/12; E04H12/16; E04H12/34; F03D11/04	Vorrichtung und Verfahren für den Übergang zwischen einem Stahlturmabschnitt und einem vorgespannten Betonturmabschnitt
DE102011106428 B3 20121025	DE201110106428 20110702	NORDEX ENERGY GMBH [DE]	F03D11/04	Vorrichtung und Verfahren zum Drehen einer Rotorwelle einer Windenergieanlage
DE202012102170U U1 20120704	DE201220102170U 20120613	LUTZ OTTO [DE]	F03D11/04	Vorrichtung zum Montieren/Demontieren eines Bauteils einer Windenergieanlage
DE102011008672 A1 20120719	DE201110008672 20110115	HYDAC FILTERTECHNIK GMBH [DE]	F16H57/04; F03D11/04	Vorrichtung zum Schmieren eines Getriebes sowie eines Lagers

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DE102011107674 A1 20120906	DE201110012188 20110223; DE201110012189 20110223; DE201110012168 20110223; DE201110107674 20110713	ZIMMERLY WALTER [DE]	F03D3/00	Vorrichtung zur Energieumwandlung
DE102011083211 B3 20121227	DE201110083211 20110922	SIEMENS AG [DE]	F03B17/06; F03D5/00	Vorrichtung zur Erzeugung von elektrischer Energie mittels eines str÷menden Fluids
DE202012005704U U1 20120710	DE201220005704U 20120519	GARBERS CHRISTINE [DE]	F03D1/06; F03D1/02	Vorrichtung zur Erzeugung von Windenergie
DE202012007690U U1 20121115	DE201220007690U 20120810	LIESKE MALTE [DE]; SCHULTE HUBERTUS [DE]	F03D9/02	Vorrichtung zur Speicherung von Energie in Form von Druckluft in offenen und geschlossenen Gr³ndungs- und Tragstrukturen, Schwimm- und Tauchk÷rpern, von Offshore Windkraftanlagen
DE202011102743U U1 20121115	DE201120102743U 20110704	SKYSAILS GMBH [DE]	B63H9/04; F03D9/00	Vorrichtung zur Steuerung eines gefesselten Flugelements
DE202012102147U U1 20121011	DE201220102147U 20120612	KOKINETICS GMBH [DE]	F03D1/06	Vorrichtung zur Verstellung eines Rotorblatts
AT12642U U1 20120915	AT20110000456U 20110817	ZSB AG [CH]	F03D3/02; F03D7/04	VORRICHTUNG ZUR VERWANDLUNG EINER FLUIDSTRÖMUNG IN NUTZBARE ANTRIEBSKRAFT
DE202012007056U U1 20121113	DE201110122470 20111224; DE20122007056U 20120720	EGGERSTORFER RUDOLF [DE]	F03D9/00	Vorrichtung zur zusõtzlichen Stromgewinnung in Mastkonstruktionen zur Hochspannungs - Gleichstrom - ?bertragung
EP2484898 A1 20120808	EP20110153354 20110204	LM WIND POWER AS [DK]	F03D1/06	Vortex generator device with tapered sections for a wind turbine
EP2484897 A1 20120808	EP20110153352 20110204	LM WIND POWER AS [DK]	F03D1/06	Vortex generator for wind turbine with base having recess for adhesive

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EP2484895 A1 20120808	EP20110153350 20110204	LM WIND POWER AS [DK]	F03D1/06	Vortex generator vane pair with trapezium-shaped base
CN202431433U U 20120912	CN20122009848U 20120109	WEIYA FENG	F03D1/06	Vortex sail type fan impeller
EP2534376 A1 20121219	EP20100156336 20100312; WO2010EP58052 20100609; EP20100728622 20100609	SIEMENS AG [DE]; ANDRESEN TOWERS AS [DK]	F03D11/04; F03D1/00	WALL PORTION FOR A TOWER OF A WIND TURBINE
PL396216 A1 20120827	PL20110396216 20110905	POLITECHNIKA WROCLAWSKA [PL]	F03D3/04; F03D3/00; F03D3/02; F03D9/00	Wall wind turbine
CN202468133U U 20121003	CN20112365566U 20110913	XIANGYANG LIUHECHUN POWER GENERATION RES CENTRAL; FEIFEI ZHOU; WEIZHONG ZHOU	F03B3/00; F03B3/12; F03B13/00; F03D9/00; F03D11/00	Water power wind power generation groove impeller ring
CN202468135U U 20121003	CN20112365554U 20110913	XIANGYANG LIUHECHUN POWER GENERATION RES CENTRAL; FEIFEI ZHOU; WEIZHONG ZHOU	F03B3/18; F03D1/04; F03D3/04	Water power wind power generation water guiding wind guiding device
CN102734076 A 20121017	CN20121226157 20120702	ZONGFAN YUAN	F03D9/02; B63B35/00; F03D7/04; H02J7/14	Water wind power generation system
KR20120111371 A 20121010	KR20110029804 20110331	PUSAN NAT UNIV IND COOP FOUND [KR]; S & W CORP [KR]	F03B13/24; F03B13/14; F03D1/06	WAVE ACTIVATED GENERATOR FOR SHIP
KR20120111352 A 20121010	KR20110029777 20110331	PUSAN NAT UNIV IND COOP FOUND [KR]; S & W CORP [KR]	F03B13/24; F03B11/02; F03B17/00; F03D1/06	WAVE ACTIVATED GENERATOR FOR SHIP
CN202451357U U 20120926	CN20112525545U 20111215	JINHE QIU	F03B13/14; F03B13/26; F03D9/00	Wave and wind power generating device

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CN102554817 A 20120711	CN20101619441 20101231	SHANGHAI AEOLON WIND ENERGY TECHNOLOGY DEV CO LTD	B25B11/00; F03D11/00	Web plate locating device and blade web plate forming method
KR20120092383 A 20120821	KR20110012401 20110211	PARK DAE CHI [KR]	F03D3/00; F03D11/02; H02K7/09	WEIGHTLESSNESS GENERATOR FOR VERTICAL WIND POWER DEVICE
DE102011075688 A1 20121115	DE201110075688 20110511	SCHAEFERROLLS GMBH & CO KG [DE]	F03D9/00; F03D1/00	Wellenanordnung und Verfahren zur Herstellung einer Wellenanordnung
NL2007019C C 20121120	NL20112006816 20110519; NL20112007019 20110629	MAGNTRAC B V	B08B1/00; B08B3/02; B62D55/265; F03D1/00	WERKWIJZE EN VOERTUIG VOOR HET INSPECTEREN EN/OF BEHANDELEN VAN EEN OPPERVLAK VAN EEN WINDMOLEN OF GEBOUW, EN WINDMOLEN VOORZIEN DAARVAN.
CN202402223U U 20120829	CN20122011209U 20120112	CHINA CREATIVE WIND ENERGY CO LTD	F03D11/00	Wheel hub overhauling structure of megawatt level wind generating set
PL394412 A1 20121008	PL20110394412 20110401	GEOTERMIA PODKARPACIE SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA [PL]	F03D1/06; F03B3/04	Wheel supporting structure
CN202348568U U 20120725	CN20112290403U 20110811	HONGBIN JI	F03D9/00; F03D3/02	Wide plate type wind-driven generator
CN202520485U U 20121107	CN20122187224U 20120428	SHUOJIN REN	F03D9/02	Wind air compression energy accumulation system
CN202370753U U 20120808	CN20112536027U 20111220	WEIDONG GU	F03D9/00; F03B3/18; F03B13/00	Wind and hydraulic comprehensive power generation system
CN202470207U U 20121003	CN20122059927U 20120220	CAI JINHONG	F24D13/04; F03D9/00; H02J9/00; H02N6/00	Wind and light complementary power generation geothermal heating system
CN102795332 A 20121128	CN20121314139 20120830	HUNAN AEROSPACE ELECTROMECHANICAL EQUIPMENT AND SPECIAL MATERIAL INST	B64B1/40; F03D9/00; H02J7/00; H02J9/00	Wind and light complementary power generation tethered balloon

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CN202326014U U 20120711	CN20112389884U 20111014	BEIJING INST CIVIL ENG & ARCH	F03D9/00; C02F7/00; F03D3/00; F03D11/00; H02N6/00	Wind and light power circulation water body purification equipment
CN202513638U U 20121031	CN20122192350U 20120503	UNIV ZHEJIANG OCEAN	H02J7/00; F03D9/00; H02N6/00	Wind and luminous energy complementary power generation device of trawler
CN202551960U U 20121128	CN20122244140U 20120529	CHENGDU ZHENZHONG ELECTRIC CO LTD	A01M1/04; A01K61/00; A01M1/22; A23K1/18; A23N17/00; F03D9/00; H02J7/35	Wind and photovoltaic hybrid solar insect killing lamp for fishery
CN202303155U U 20120704	CN20112422702U 20111031	SUIZHONG ANTAI TECHNOLOGY CO LTD	F21S9/03; F03D9/00; F21S9/04; F21V17/00	Wind and solar energy hybrid power supply street lamp
CN202381264U U 20120815	CN20112528903U 20111216	YANJIAO HUANG	F03D9/02; F03D11/04; F03G6/00	Wind and solar generator
CN102536673 A 20120704	CN20121025532 20120118	JIANGXI RED EAGLE ENERGY CO LTD	F03D9/00; F03D11/00; H02N6/00	Wind and solar power complemented generation device
GB2488177 A 20120822	GB20110002946 20110221	TORCLAD LTD [GB]	F03D9/00; F03D1/04; F03D7/02	Wind and solar power installation
CN102705148 A 20121003	CN20121190338 20120611	UNIV SHAOXING	F03B13/22; F03B3/12; F03D3/06; F03D9/00	Wind and wave holding power generating mechanism
CN102635497 A 20120815	CN20121102678 20120401	XIANGQING KONG	F03D3/06; F03D3/04	Wind blade device of wind driven generator
CN202531360U U 20121114	CN2012233031U 20120202	JIANGSU JUYUAN WIND POWER TECHNOLOGY CO LTD	F03D11/00; F03D7/00	Wind blade group device for wind power generation system
WO2012161741 A2 20121129	US201161519520P 20110524	EDWARDS CHRISTOPHER M [US]	F03D1/06; B32B5/00; F03D3/06; F03D11/00	WIND BLADE SPAR CAPS
TWM436092U U 20120821	TW20120207036U 20120417	CHUNG CHIEN-LIN [TW]	F03D9/00	Wind blade with wind guide sheet and wind septum sheet and application thereof
KR20120113325 A 20121015	KR20110030975 20110405	ROH SOON CHANG [KR]	F03D9/00; F22B3/06; F24D15/04; F24J3/00	WIND BOILER WITH WIND GENERATOR

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CN202417815U U 20120905	CN20122026570U 20120120	HONGJUN WEI	F03D3/06; F03D7/06	Wind collecting device for vertical axis wind power generation
CN202520477U U 20121107	CN20122159650U 20120416	DONGGUAN KEWANG NETWORK ENERGY CO LTD	F03D3/04	Wind collection device
CN202300860U U 20120704	CN20112451589U 20111115	ZHOUQUE LI	F03D9/00; F03D3/02; F03D3/04; F03D7/06; H02N6/00	Wind collection type wind driven generator
WO2012157944 A2 20121122	KR20110047408 20110519	R & D PROJECT CO LTD [KR]; CHOI NAM HYUN [KR]	F03D3/06; F03D11/00; F03D11/02	WIND COLLECTION TYPE WIND POWER GENERATOR
FR2976980 A1 20121228	FR20110001979 20110624	SAUVAL CLAUDE RENE [FR]	F03D1/04; F03D3/04	Wind control device i.e. wind gear box, for supplying wind to wind mill that is installed on e.g. car, for electric power supply, has rotor including guides and internal ducts for forming venturi to regulate velocity of air
KR20120129430 A 20121128	KR20110047678 20110520		F03D3/06; F03D7/06; F03D11/00	Aerogenerator equipped with Inclinable Convex Rotating Airfoil
FR2972229 A1 20120907	FR20110051630 20110301	PEUGEOT CITROEN AUTOMOBILES SA [FR]	F03D3/06; B60K16/00; F03D11/04	Wind device i.e. vertical axis savonius-type wind device, for use on roof of e.g. car, to convert wind energy into electrical energy for vehicle, has inflatable blades in form of conduits extending up to circumference of wind device
US2012294728 A1 20121122	US201113300052 20111118; US20100415999P 20101122	STEWART RANDAL [US]	F03D3/06	WIND DIODE SYSTEMS
CN202468162U U 20121003	CN20122087188U 20120309	NANJING KANGNI TECHNOLOGY INDUSTRY CO LTD	F03D7/04; F03D9/00	Wind driven generator

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CN102797641 A 20121128	CN20111139161 20110527	ZEYU LI	F03D11/00; F03D1/06	Wind driven generator
CN202370750U U 20120808	CN20112412764U 20111026	SHANGHAI HAISHUN COMMERCE AND TRADE DEV CO LTD	F03D9/00; F03D1/00; F03D1/04	Wind driven generator
CN202326022U U 20120711	CN20112465017U 20111121	SANY ELECTRIC CO LTD	F03D9/00; F03D7/00; F03D11/04	Wind driven generator
CN102734089 A 20121017	CN20111083337 20110329	ZEXING GAO	F03D11/02	Wind driven generator
CN102562450 A 20120711	CN20121009128 20120112	SANY ELECTRIC CO LTD	F03D7/00; F03D9/00	Wind driven generator and pitch control method and pitch control system thereof
CN102748227 A 20121024	CN20121226632 20120629	YUNRANG PIAN; HAIYING PIAN	F03D9/00; F03D3/00; F03D3/04; F03D7/06	Wind driven generator and power generation method thereof
CN202431458U U 20120912	CN20112574717U 20111231	SINOVEL WIND GROUP CO LTD [CN]	F03D11/00	Wind driven generator blade
CN202348581U U 20120725	CN20112508164U 20111208	UNIV ZHEJIANG	F03D9/00; F03D7/02; F16D43/14	Wind driven generator capable of being matched with wind speed
CN102635504 A 20120815	CN20121104295 20120411	UNIV HARBIN ENG	F03D9/00; B63H13/00; F03D11/00	Wind driven generator for ship
CN202441544U U 20120919	CN20122039675U 20120208	NANJING WIND POWER TECHNOLOGY CO LTD	F03D9/00; G01R31/12	Wind driven generator having insulation detection function
CN102734083 A 20121017	CN20121151234 20120516	UNIV SOUTHEAST	F03D11/00; F03D7/00; F03D9/00	Wind driven generator paddle used for resisting strong wind
CN202417820U U 20120905	CN20122017784U 20120116	HUAYI ELECTRICAL APPLIANCE GROUP CO LTD	F03D7/00	Wind driven generator safety control device
CN202493388U U 20121017	CN20122143339U 20120409	CSR ZHUZOU ELECTRIC LOCOMOTIVE RES INST CO LTD	F03D11/00	Wind driven generator unit engine room protecting device
CN102619693 A 20120801	CN20121096761 20120405	HAISONG ANG	F03D9/00; F03D3/06	Wind driven generator with bionic wing structure blades
CN202417809U U 20120905	CN20112535500U 20111220	JIANXIONG XU	F03D1/00; F03D1/06; F03D7/04	Wind driven generator with built-in unloading gear

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CN102644559 A 20120822	CN20121148943 20120515	NANJING WIND POWER TECHNOLOGY CO LTD	F03D11/00; F03D7/02	Wind driven generator with de-icing device and de-icing method thereof
CN102562466 A 20120711	CN20101614374 20101217	YONG ZHANG	F03D9/00; F03D3/00; F03D3/04; F03D3/06	Wind driven generator with fixed wind guiding and accelerating vertical shaft
CN202510289U U 20121031	CN2012261741U 20120224	UNIV SOOCHOW	F03D9/00; F03D3/06; F03D7/06	Wind driven generator with retractable fan blades
CN202510290U U 20121031	CN20122169927U 20120420	CHANGYAN SHEN	F03D9/00; F03D3/04; F03D3/06	Wind driven generator with windmills
CN202300837U U 20120704	CN20112413867U 20111026	BEIJING WANYUAN INDUSTRY CO LTD; CN ACADEMY LAUNCH VEHICLE TECH	F03D7/00	Wind driven generator yaw brake system
GB2490377 A 20121031	GB20100021020 20101213	LEE GRAHAM RUSSELL [GB]; HAYES TREVOR CHARLES [GB]	F03D5/06	Wind driven rocking elements acting on thrust plate
CN202327971U U 20120711	CN20112451743U 20111115	XINJIANG SUNNON SOLAR TECHNOLOGY CO LTD	F21S9/03; F03D3/06; F03D9/00; F21S9/04; F21V17/00; F21V23/00	Wind energy and light energy complementary type spontaneous LED (Light-emitting Diode) street lamp system
CN202495777U U 20121017	CN20112460110U 20111118	XI AN BOYU GREEN ENERGY CO LTD	H02J7/00; F03D9/02	Wind energy and solar energy complementary type electric vehicle charging station
CN102758742 A 20121031	CN20111106478 20110427	SHANJUN SUN	F03D9/02; F03D3/00; F03D7/06; F04D25/04; F04D25/06; F04D25/08	Wind energy and solar energy roof power generation self-driving fan
CN102536669 A 20120704	CN20101619260 20101230	SHANGHAI WIND POWER CO LTD	F03D9/00; F03B13/06; F03B13/26; H02J3/38	Wind energy and tidal energy complementary energy-storage power generation system
CN102650268 A 20120829	EP20110001581 20110225	NORDEX ENERGY GMBH [DE]	F03D11/00	Wind energy assembly rotor blade with varying blade depth
CN202402245U U 20120829	CN20112292614U 20110812	RUNXIANG WANG	F04B35/00; F03D9/00	Wind energy cam-type air compressor

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US2012223528 A1 20120906	CL20090002068 20091112; WO2010IB55115 20101110	MENA VERGARA SERGIO LUIS [CL]	F03D9/00	WIND ENERGY CAPTURING DEVICE
CN202381255U U 20120815	CN20112572774U 20111231	DAOTONG YANG	F03D3/06; F03D11/00	Wind energy conversion device of megawatt wind power generation system
EP2483557 A1 20120808	CN20092219585U 20090930; WO2010CN77476 20100929	ASIAN PRIME SOURCES LTD [CN]	F03D11/00; F03D1/00; F03D9/00; H02G13/00	WIND ENERGY CONVERTER
CH704383 A2 20120731	CH20110000119 20110125	GYR DR ALBERT [CH]	F03D9/00	Wind energy device for generating electrical energy from wind energy produced at wall of multi-story building for e.g. charging car battery, has support and cover that are provided for fastening turbine to wall of building
CN102635512 A 20120815	CN20121134378 20120503	YIWU YAO	F03D9/02; B60K16/00; B60L8/00; F03D3/04; F03D3/06; F03D7/06	Wind energy electric motor car
TW201229386 A 20120716	TW20110100227 20110104	UNIV CHUNG YAN CHRISTIAN [TW]	F03D5/00; F03D11/00	Wind energy generator using piezoelectric material and auxiliary mechanism thereof
CN102748231 A 20121024	CN20121251771 20120720	UNIV SHANGHAI MARITIME	F03D9/00	Wind energy heating device of airfoil fan with vertical shaft
PT1595076E E 20121031	DE20031005689 20030212	WOBBEN ALOYS [DE]	F03D11/00; F03D9/00	WIND ENERGY INSTALLATION COMPRISING CONDUCTOR RAILS
DE102011005390 A1 20120913	DE20111005390 20110310	WOBBEN ALOYS [DE]	F03D11/00	Wind energy installation has synchronous generator which comprises generator stator and generator rotor for generating electrical energy
CN202302778U U 20120704	CN20112403828U 20111021	HUDONG ZHONGHUA SHIPBUILDING	F21L13/02; F03D9/00	Wind energy lighting system for shipboard operation

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DE102011012725 A1 20120906	DE201110012725 20110301	BOSCH GMBH ROBERT [DE]	F03D11/00; F03D1/06	Wind energy plant for generating current, has transmission arranged in housing and comprising main shaft that is designed as transmission input, and rotor hub for distributing fluid guided through main shaft into blades for heating fluid
DE102011012452 A1 20120830	DE201110012452 20110225	WERNER MOEBIUS ENGINEERING GMBH [DE]	F03D11/04	Wind energy plant has lifting device that is connected to housing via bearing to conversely move machine housing at lower position of tower to specified final height
DE102011019001 A1 20121031	DE20111019001 20110428	IMO HOLDING GMBH [DE]	F03D11/04	Wind energy plant has rolling elements that are provided in tracks for supporting one-piece machine element in which inner toothing is introduced
CN102713270 A 20121003	WO2011EP50831 20110121; DE201010005286 20100121	REPOWER SYSTEMS AG [DE]	F03D7/04	Wind energy plant having a blade heater
DE102011011925 A1 20120823	DE201110011925 20110217	WERNER MOEBIUS ENGINEERING GMBH [DE]	F03D3/02; F03D3/04; F03D9/00	Wind energy plant installed in e.g. ship, has electrical generators that are driven by vertical shaft of wind rotor, and rotary bearing that is provided for rotatably mounting horizontal bridge around vertical axles of tower
WO2012168387 A2 20121213	DE20111077428 20110610	WOBBEN PROPERTIES GMBH [DE]; BRENNER ALBRECHT [DE]; MERTENS RENE [DE]; PAPADOPOULOS PANOS [DE]; KERSTEN ROY [DE]	E04H12/08; F03D11/04	WIND ENERGY PLANT TOWER
CN102797627 A 20121128	CN20121284200 20120812	XIAQIU XU	F03D5/02	Wind energy power device

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CN202402212U U 20120829	CN20112391066U 20111014	ZHONGYI GUO	F03D9/00; F03D1/02; F03D1/06; F03D7/04	Wind energy power generation device
CN202441547U U 20120919	CN20122016557U 20120116	UNIV NORTHEAST PETROLEUM	F03D9/02	Wind energy recycling integrated device for wind power heat radiation large motor
EP2494189 A2 20120905	US20090256174P 20091029; US20100771898 20100430; US20090256474P 20091030; WO2010US54543 20101028	GREEN ELECTRIC COMPANY A MASSACHUSETTS CORP [US]	F03D3/04; F03D3/02; F03D11/00	WIND ENERGY SYSTEM
DE102011100039 A1 20121031	DE201110100039 20110429	LAU BERND [DE]	F03D9/00; F03D1/02; F03D1/04	Wind energy system e.g. wind power station, for producing current, has generator station located at bottom part, and energy transmission unit transmitting mechanical energy from wind wheel to power consumption station
CN102782314 A 20121114	WO2010US47059 20100828; US20090278815P 20091013	AERODYN ENERGY INC	F03D3/06; F03D5/06; F03D11/00	Wind energy systems and methods of use
CN102536668 A 20120704	CN20101614932 20101230	XIAOSHENG SHEN	F03D9/00; F03B3/12; F03B11/00; F03B13/00; F03D11/00; F16H1/28; H02N6/00; H02N15/00	Wind energy, water energy and solar energy combined power generation device
CN102562504 A 20120711	CN20111416414 20111212	UNIV XI AN JIAOTONG	F03G6/06; F02C6/18; F03D9/00	Wind energy-solar energy combined energy storage generating system
WO2012164140 A1 20121206	ES20110030920 20110603	PALACIOS PRIETO ANGEL [ES]	F03D3/02	WIND ENGINE

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RU2464444 C1 20121020	RU20110118909 20110511	G OBRAZOVATEL NOE UCHREZHDENIE VYSSHEGO PROFESSIONAL NOGO OBRAZOVANIJA UFIM G ATU [RU]	F03D7/04	WIND ENGINE
CN202468173U U 20121003	CN20112524258U 20111215	BAODING HUAYI TURBINE BLADE RES & DEV CO LTD	F03D11/00	Wind erosion prevention wind power generation blade
CN102606395 A 20120725	CN20121073674 20120320	UNIV SOUTHEAST	F03D7/00; H02J3/38	Wind farm active power optimal control method based on power prediction information
WO2012089699 A2 20120705	DE201010056457 20101229	REPOWER SYSTEMS SE [DE]; BLUHM ROMAN [DE]; FORTMANN JENS [DE]	F03D9/00	WIND FARM AND METHOD FOR OPERATING A WIND FARM
WO2012089698 A2 20120705	DE201010056458 20101229	REPOWER SYSTEMS SE [DE]; MATZEN BJOERN [DE]	F03D9/00; F03D7/02; F03D7/04	WIND FARM AND METHOD FOR OPERATING A WIND FARM
WO2012089675 A2 20120705	DE201010056456 20101229	REPOWER SYSTEMS SE [DE]; FORTMANN JENS [DE]	F03D9/00	WIND FARM AND METHOD FOR OPERATING A WIND FARM
KR20120130616 A 20121203	KR20110048692 20110523		F03D1/02; F03D11/00; F03D11/02	Generator and Wind power generating system
KR20120110992 A 20121010	KR20110029212 20110331	YOON PIL [KR]	B60L8/00; B60K16/00; F03D9/00	WIND FORCE GENERATOR OF CAR
CN102562467 A 20120711	CN20101619068 20101229	LIRONG SUN	F03D9/00; F03D3/00; F03D3/04; F03D3/06; F03D7/06; H02N15/00	Wind gathering and accelerating wind power generation device
CN202468163U U 20121003	CN20112516108U 20111213	LEI WANG	F03D9/00; F03D3/06	Wind gathering type stable wind power generation device
CN102758738 A 20121031	CN20121254409 20120722	UNIV HEBEI TECHNOLOGY	F03D9/00; F03D11/02	Wind generating equipment

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CN202402225U U 20120829	CN20112368124U 20110930	TIANCAI YIN	F03D11/04; F03D3/06; F03D7/06	Wind generating set
CN102619699 A 20120801	CN20111035161 20110130	ZEXING GAO	F03D9/02; F03D7/02	Wind generating set
CN102536646 A 20120704	CN20101581649 20101209	SANY ELECTRIC CO LTD	F03D7/00; F03D9/00	Wind generating set and control system thereof
CN102562475 A 20120711	CN20121047569 20120227	SANY ELECTRIC CO LTD	F03D9/00; F03C2/00	Wind generating set and hydraulic motor thereof
CN102606435 A 20120725	CN20121091277 20120330	SANY ELECTRIC CO LTD	F04B1/047; F03D9/00; F04B17/00; F04B53/00	Wind generating set and hydraulic pump aggregate thereof
CN202500720U U 20121024	CN20122115026U 20120323	SINOVEL WIND GROUP CO LTD [CN]	F03D7/00; F03D9/00	Wind generating set and yawing device thereof
CN202300840U U 20120704	CN20112367855U 20110929	JNC TECHNOLOGY CO LTD	F03D7/02; F03D11/00	Wind generating set control framework
CN202360304U U 20120801	CN20112337616U 20110909	GUANGDONG MINGYANG WIND POWER INDUSTRY GROUP CO LTD	F03D11/00	Wind generating set impeller lightning protection device
CN102777334 A 20121114	CN20121254529 20120721	GUANGDONG MINGYANG WIND POWER INDUSTRY GROUP CO LTD	F03D11/04	Wind generating set leveling device
CN202545109U U 20121121	CN20112314616U 20110824	GUODIAN UNITED POWER TECH CO [CN]	F03D7/00	Wind generating set optimal control system
CN202468161U U 20121003	CN20122082597U 20120307	ZHIGANG JI	F03D7/04	Wind generating set which can automatically regulate angle of fan blade according to wind power
CN202545121U U 20121121	CN20122182860U 20120426	DONGFANG TURBINE CO LTD DONGFANG ELECTRIC CORP	F03D9/00; B66C17/06	Wind generating set with crane
CN102606408 A 20120725	CN20121091247 20120330	GUANGDONG ELEC POWER DES INST	F03D9/00; B63B35/00; F03D11/00	Wind generation set at sea
CN202510282U U 20121031	CN20122164085U 20120418	RENERGY ELECTRIC SUZHOU CO LTD	F03D7/00	Wind generation set based on industrial Ethernet

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CN102748214 A 20121024	CN20121240480 20120710	GUODIAN UNITED POWER TECH CO [CN]	F03D7/00; G01M15/00	Wind generation set state monitoring and fault diagnosis system coupled to control system
CN202326019U U 20120711	CN20112448910U 20111114	HUZHOU SHENLAN COMP TECHNOLOGY DEV CO LTD	F03D9/00; F03D3/06; H02K1/14; H02K1/27	Wind generator
CN102705173 A 20121003	CN20121026101 20120207	SHENZHEN EFFSUN WIND POWER CO LTD	F03D11/00	Wind generator and blades thereof
CN202493382U U 20121017	CN20122083203U 20120307	YIRU WANG	F03D9/00; H02J3/38; H02J7/00; H02K7/18	Wind generator and electromotor combined generating device
CN102736201 A 20121017	CN20111091939 20110413	DONGJIE OPTICAL TECHNOLOGY SUZHOU CO LTD	G02B6/44; F03D11/00	Wind generator group communication optical cable
KR20120075691 A 20120709	KR20100137471 20101229	LIG ENSULTING CO LTD [KR]	F03D9/00; F03D3/00; F03D11/02	WIND GENERATOR INSTALLED AT CHIMNEY
US2012195761 A1 20120802	GR20100100011 20100108; WO2010GR00058 20101230	NOURIS MYRON [GR]	F03D11/00	WIND GENERATOR OF VERTICAL AXLE WITH INHIBITION OVERSPEED FLAPS
CA2793761 A1 20120830	CN20111058694 20110311; WO2011CN00560 20110331	BEIJING JUNANTAI PROT TECHNOLOGIES CO LTD [CN]	F03D3/06	WIND GENERATOR WITH WIND BLADE ROTATING CAGE FOR DRIVING MULTIPLE GENERATORS
KR101178031B B1 20120829	KR20110119255 20111116	INDUSTRY ACADEMIC COOPERATION FOUNDATION KUNSAN NAT UNIVERSITY [KR]	F03D1/04; F03D3/04; F03D9/00; F03D11/00	WIND GUIDE AND BUILDING WIND POWER GENERATION HAVING THE SAME
KR20120113857 A 20121016	KR20110031510 20110406	ROH SOON CHANG [KR]	F03D9/00; F03D3/04	WIND INDUCTION AND WIND CONCENTRATION STRUCTURE OF ROOFTOP
CZ24312U U1 20120919	CZ20120026010U 20120507	REHOR JOSEF [CZ]	F03D3/00	Wind motor with vertical axis of rotation and suspended propeller arms

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KR20120106106 A 20120926	KR20110023973 20110317	MIRTECH CO [KR]	F03D1/04; F03D11/00; F03D11/04	WIND OR TIDAL POWER GENERATING SYSTEM WHICH USES THE LEVITATION OR BUOYANCY TYPE
MX2012003215 A 20120801	EP20090075430 20090917; WO2010EP05607 20100830	VENPOWER GMBH [DE]	H02K21/44	WIND OR WATER ENERGY INSTALLATION.
CN202451377U U 20120926	CN20122088702U 20120312	ZHISHENG GAO; YONGHUI MAO	F03D11/00; G09F13/22	Wind powder advertising frame with self-supplying electric power
CN202370754U U 20120808	CN20112536044U 20111220	WEIDONG GU	F03D9/00; F03B13/00	Wind power and hydropower integrated power generation system
CN102748195 A 20121024	CN20121234824 20120707	ZHEJIANG YONGCHANG METER IND CO LTD	F03B13/06; F03D9/00	Wind power and waterpower hybrid generation device
CN102758724 A 20121031	CN20111107985 20110428	PEIXIAN GAO	F03D3/04	Wind power collector
CN202417821U U 20120905	CN20122053508U 20120217	SHENHUA GROUP CORP LTD; GUOHUA ENERGY INVEST CO LTD; GUOHUA SHANWEI WIND POWER CO LTD	F03D7/00	Wind power communication control system
CN202449891U U 20120926	CN20122073420U 20120301	SHANDONG SHANDONG UNIVERSITY ENERGY ENVIRONMENT CO LTD	C02F1/44; F03D9/00	Wind power compression device applicable to reverse osmosis seawater desalination
WO2012174737 A1 20121227	WO2011CN76274 20110624	ABB TECHNOLOGY [CH]; GUAN ERYONG [CN]	H02J3/38; F03D11/00; H02J3/28	WIND POWER CONVERTER
KR20120130881 A 20121204	KR20110048929 20110524		F24D15/04; F03D9/00; F24H9/18; F25B21/00	Cooling and heating system using induction heating device for low input energy.
CN202300861U U 20120704	CN20112173090U 20110527	SHIYING PENG	F03D9/02; F03D1/00	Wind power device
CN102562432 A 20120711	CN20101607428 20101227	VLADMIR NIKLAEVICH FILONOV	F03D1/00; F03D1/04; F03D1/06	Wind power device and wind power turbine

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CN102777326 A 20121114	CN20121246642 20120717	NANTONG MAILONG ENERGY EQUIPMENT CO LTD	F03D9/00; F03D9/02; F03D11/02	Wind power direct-driven refrigerating system
CN202503982U U 20121031	CN2012266912U 20120227	FENGYIN LI	A01G25/00; F03D9/00	Wind power diversion irrigation device
CN102803719 A 20121128	WO2010EP58140 20100610; IT2009MI01028 20090610	WILIC S AR L [LU]	F03D11/00	Wind power electricity generating system and relative control method
CN202440093U U 20120919	CN20122069163U 20120221	ZHEN LI	B65G25/04; F03D9/00	Wind power energy storage feeding device
KR20120140638 A 20121231	KR20120129504 20121115	OH YOON YOUNG [KR]	F03D3/04; F03D11/00	WIND POWER GENERATING APPARATUS
KR20120134446 A 20121212	KR20110053343 20110602	OH YOON YOUNG [KR]	F03D3/04; F03D11/00	WIND POWER GENERATING APPARATUS
US2012223527 A1 20120906	KR20090107409 20091109; WO2010KR07687 20101103	SUN SOOK AN [KR]	F03D1/02; F03D9/00	WIND POWER GENERATING APPARATUS
WO2012105759 A2 20120809	KR20110009960 20110201; KR20110127753 20111201	KO YOUNG EUN [KR]	F03D3/04; F03D11/00	WIND POWER GENERATING APPARATUS HAVING A WIND GUIDE
KR20120097707 A 20120905	KR20110017080 20110225	IRESYS CO LTD [KR]	F03D9/00; F03D3/04; F03D3/06	WIND POWER GENERATING APPARATUS USING DRIVE WIND FORCE
WO2012144764 A2 20121026	KR20110036188 20110419	KIM JUEN SOO [KR]	F03D1/04; F03D1/02; F03D11/00	WIND POWER GENERATING DEVICE
WO2012108333 A1 20120816	JP20110024721 20110208	NIDEC CORP [JP]; NODA MANABU [JP]; FUJITA ATSUSHI [JP]; ELSON RICKY [JP]; KAJI NOBUFUJI [JP]	H02P9/00; F03D9/00	WIND POWER GENERATING DEVICE

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CN202381257U U 20120815	DE201010035615 20100826	SSB WIND SYSTEMS GMBH & CO KG [DE]	F03D7/04	Wind power generating device and variable pitch system for wind power generating device
AU2011213447 A1 20120823	CN20101106452 20100205; WO2011CN70425 20110120	SHANDONG ZHONGTAI NEW ENERGY GROUP CO LTD	F03D3/02	Wind power generating device and wind blade structure
CN202531359U U 20121114	CN20122201780U 20120508	PINGLI WANG; LEI WANG; LONG WANG	F03D9/02; F03D3/06; F03D11/04	Wind power generating device for cities
CN202294263U U 20120704	CN20112444780U 20111111	JING CHEN; PEI CHEN	B60K16/00; F03D9/02; F03D11/00	Wind power generating device for vehicle
CN202451371U U 20120926	CN20112529211U 20111217	ZHANG XIAOMING	F03D9/02; F03D7/04; F03D11/02	Wind power generating device on port loading-unloading machine
JP2012163030 A 20120830	JP20110023431 20110206	DATUM ISLANDS LTD	F03D9/00	WIND POWER GENERATING DEVICE USING CONTINUITY EQUATION
EP2514965 A2 20121024	JP20110094854 20110421	TOSHIBA KK [JP]	F03D7/02; F03D11/00	Wind power generating system
CN202300847U U 20120704	CN20112375450U 20110928	JIANGSU JUYUAN WIND POWER TECHNOLOGY CO LTD	F03D9/00; F03D3/00; F03D7/06	Wind power generating system
CN102597505 A 20120718	WO2010KR06940 20101011; KR20090096818 20091012	SE-BIN KIM	F03D7/02; F03D7/04; F03D11/02; F03D11/04	Wind power generating system using turbine blades radially arranged along a circular structure
CN202391654U U 20120822	CN20112529325U 20111217	YUECHAN ZHANG	F03D9/00; A47G9/06	Wind power generating thermal protection bed
KR20120116626 A 20121023	KR20110034176 20110413	LAMP CO LTD [KR]	F03D3/02; F03D11/02	WIND POWER GENERATION
CN202325862U U 20120711	CN20112169853U 20110525	SHIXIAN LIN	F02D9/02; F03D7/04; F04C18/16; F04C23/02; H02N6/00	Wind power generation and energy storage device

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CN202349846U U 20120725	CN20112331127U 20110905	ZHONGHUA JIANG	F21S9/03; F03D3/06; F03D9/00; F21S9/04; F21V17/00; F21V19/00	Wind power generation and solar energy complementing road lamp
CN102734071 A 20121017	CN20111088885 20110330	WEIHAI WEIYING PLASTIC CO LTD	F03D9/00; F04B35/01; H02K7/18	Wind power generation and wind power air compression dual-purpose machine
CN102734057 A 20121017	CN20111088895 20110330	WEIHAI WEIYING PLASTIC CO LTD	F03D1/02; F03D7/04; F03D9/00; F03D11/04	Wind power generation and wind power air compression dual-purpose machine with automatic speed regulation function
WO2012111532 A1 20120823	JP20110029951 20110215	MITSUBISHI HEAVY IND LTD [JP]; MATSUO TAKESHI [JP]; OKANO YASUSHI [JP]; NAKAMURA TAISUKE [JP]; GOTOU CHUUHACHI [JP]; HIRAI SHIGETO [JP]; SATO SHINSUKE [JP]	F03D11/00; F03D1/06	WIND POWER GENERATION APPARATUS
CN102691622 A 20120926	CN20111068637 20110322	ZUODONG LIN	F03D9/00; F03D11/02; F16H1/22; F16H57/021; F16H57/023; F16H57/029	Wind power generation apparatus
JP2012172676 A 20120910	JP20110054742 20110223	TAKAO NOBUHIRO	F03D1/04; F03D1/06; F03D11/00; F03D11/04	WIND POWER GENERATION APPARATUS
CN102782317 A 20121114	WO2010JP50435 20100115	MITSUBISHI HEAVY IND LTD [JP]	F03D7/04	Wind power generation apparatus and method for activating same
KR20120130892 A 20121204	KR20110048947 20110524		F03D7/00; F03D11/00; H02P9/04	Torque control method for wind turbine
JP2012145025 A 20120802	JP20110003598 20110112	FUJITA YASUHIRO	F03D9/00; F03D3/04; F03D3/06	WIND POWER GENERATION APPARATUS MOUNTED ON MOVING BODY
CN202451376U U 20120926	CN20122085128U 20120308	ZHUZHOU TIMES NEW MAT TECH CO	F03D11/00	Wind power generation blade

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CN202402209U U 20120829	CN20112459628U 20111118	YIMIAO CHEN	F03D1/06	Wind power generation blade
CN202417827U U 20120905	CN20112543874U 20111222	LUOYANG WEIQI SOLAR ENERGY TECHNOLOGY CO LTD	F03D9/00; F03D1/06; F03D3/06; F03D11/00	Wind power generation blade or impeller
KR20120070919 A 20120702	KR20100132447 20101222	JEONG JUNG KYU [KR]	F03D9/00; F03D3/04	WIND POWER GENERATION BY CAR DRIVING WIND
KR101212574B B1 20121214	KR20110100128 20110930	KRRI [KR]	F03D9/00; F03D7/00; F03D7/06; F03D11/00	WIND POWER GENERATION BY SUBWAY TRAIN TRAVELING WIND
CN102705172 A 20121003	CN20121201649 20120619	HAOYUAN FAN	F03D9/02; B60K16/00; B60L8/00; F03D1/02; F03D1/06; F03D11/00; F16F15/04; H02J7/14	Wind power generation charging device for battery of electric vehicle
EP2535576 A1 20121219	WO2010JP51994 20100210	MITSUBISHI HEAVY IND LTD [JP]	F03D11/00; F03D7/04	WIND POWER GENERATION DEVICE
WO2012153750 A1 20121115	JP20110105585 20110510	NIDEC CORP [JP]; FUKUI TOSHIFUMI [JP]; MIZUIKE KOSUKE [JP]; INOUE HITOSHI [JP]	F03D11/02	WIND POWER GENERATION DEVICE
CN102797626 A 20121128	CN20111132250 20110523	SUZHOU SIYUN NEW ENERGY CO LTD	F03D3/02; F03D3/06; F03D7/06; F03D11/00; H02K7/10; H02K7/116	Wind power generation device
CN102748234 A 20121024	CN20121255622 20120722	UNIV HEBEI TECHNOLOGY	F03D9/00; F03D11/02	Wind power generation device
CN102767480 A 20121107	CN20121223818 20120629	FANG HUANG	F03D9/00; F03D3/04	Wind power generation device
CN102705165 A 20121003	CN20121176554 20120531	QINYUAN COUNTY BOXIANG NEW ENERGY TECHNOLOGY DEV CO LTD	F03D9/00; F03D1/04	Wind power generation device
CN202441546U U 20120919	CN20122080546U 20120306	JIANGSU JOINHOPE ELECTRIC CO LTD	F03D9/00	Wind power generation device

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CN202483799U U 20121010	CN20122075138U 20120229	HONGJINDA ENERGY TECHNOLOGY CO LTD	F03D9/00; F03D3/00; F03D3/04; F03D3/06; F03D7/06	Wind power generation device
CN202510278U U 20121031	CN2012244631U 20120213	TAIHE WAVE ENERGY RES CENTRAL QINGDAO ECONOMIC TECHNOLOGY DEV ZONE	F03D3/06; F03D7/06; F03D9/00	Wind power generation device
CN202326008U U 20120711	CN20112462130U 20111118	SHANGHAI SHICOH ELECTRONICS CO LTD	F03D7/00	Wind power generation device
CN102678446 A 20120919	CN20111059247 20110311	ZHANGJIAGANG JIUDING MACHINERY CO LTD	F03D3/02; F03D11/02; F03D11/04	Wind power generation device
EP2530304 A1 20121205	WO2010JP51062 20100127	MITSUBISHI HEAVY IND LTD [JP]	F03D7/04	WIND POWER GENERATION DEVICE AND YAW TURNING CONTROL METHOD FOR WIND POWER GENERATION DEVICE
CN202300842U U 20120704	CN20112308629U 20110823	HONGYUAN ZHU	F03D9/00; B60L8/00; F03D1/02; F03D1/04	Wind power generation device for automobile
CN102619694 A 20120801	CN20111298488 20111008; CN20121106276 20120412	YUXUE LI; GUANGMING WANG	F03D9/00; F03D5/00; F03D11/00; H02J7/14	Wind power generation device for travelling devices and electricity system with same
CN102803715 A 20121128	WO2010JP52087 20100212	MITSUBISHI HEAVY IND LTD [JP]	F03D7/04	Wind power generation device handy terminal, wind power generation device, and wind power generation site
WO2012160939 A1 20121129	JP20110118391 20110526	BIRUMEN KAGOSHIMA CO LTD [JP]; NOMOTO KAZUKI [JP]; NOMOTO KAZUOMI [JP]; YAGI MANABU [JP]	F03D1/02; F03D7/02	WIND POWER GENERATION DEVICE MANAGEMENT SYSTEM
CN202500723U U 20121024	CN20122056182U 20120220	YUZHANG LI; ZHENG HUIREN	F03D9/00; F04D25/08; F04D29/54; H02J7/32; H02K7/18	Wind power generation device of industrial positive pressure or negative pressure fan
CN102678456 A 20120919	CN20111053102 20110307	MENG ZHAO	F03D9/00; F03D3/00; F03D3/04; F03D3/06	Wind power generation device used for vehicle

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CN202300855U U 20120704	CN20112422228U 20111031	UNIV SHAOXING	F03D9/00; F03D7/02	Wind power generation device with anti-overloading device
CN102734075 A 20121017	CN20121241396 20120711	SHUGUANG LI; ZHANG SIOU; HARBIN HIGH POWER VERTICAL WIND POWER EQUIPMENT ENGINEERING TECHNOLOGY RES CT CO LTD	F03D9/00; F03D3/02; F03D3/04; F03D11/00	Wind power generation device with roof reinforced concrete frame
CN202560477U U 20121128	CN20122205887U 20120509	SHANTOU HIGH TECH ZONE HONGYUANDA PHOTOELECTRIC TECHNOLOGY CO LTD	F03D9/00; F03D3/06	Wind power generation device with vertical shaft
CN202531357U U 20121114	CN20122212437U 20120514	ZHENGFA WANG	F03D9/00; F03D5/00	Wind power generation equipment
CN102705164 A 20121003	CN20121155349 20120724	LINIX MOTOR CO LTD HENGDIAN GROUP	F03D9/00; F03D1/00; F03D1/04; F03D1/06; F03D7/04; H02K16/00	Wind power generation equipment
CN202510288U U 20121031	CN2012261740U 20120224	UNIV SOOCHOW	F03D9/00; F03D3/02; F03D3/06; F03D7/06	Wind power generation fan with multi-group wind wheels
CN202466471U U 20121003	CN20122063593U 20120222	CAI JINHONG	E01F15/02; E01F9/016; E01F15/08; F03D9/00; F21V23/00; F21V33/00; H02N6/00	Wind power generation guardrail with color lamps
KR20120071039 A 20120702	KR20100132616 20101222	DAEWOO SHIPBUILDING & MARINE [KR]	F03D11/00; F03D11/04	WIND POWER GENERATION HAVING HYDROGEN STORAGE EQUIPMENT
CN102678876 A 20120919	CN20121181627 20120604	UNIV NORTHEASTERN [US]	F16H47/08; F03D11/02; F16H57/04; F16H61/40	Wind power generation hydraulic control shifting voltage stabilizer
CN202417833U U 20120905	CN20122016607U 20120116	UNIV NORTHEAST PETROLEUM	F03D9/00; F03D11/04	Wind power generation integrated device using heat dissipation wind power of large-scale motor

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CN102650260 A 20120829	CN20111048207 20110228	SHANGHAI QIMOU ENERGY TECHNOLOGY DEV CO LTD	F03D1/02; F03D1/04; F03D1/06	Wind power generation method
CN202358969U U 20120801	CN20112452646U 20111115	HANGZHOU WATER TREAT TECHNOLOGY DEV CT CO LTD	C02F9/02; C02F1/44; F03D9/00	Wind power generation reverse osmosis desalination device
KR20120131332 A 20121205	KR20110049416 20110525		F03D1/00; F03D11/02	Wind Powered Generator with Rotation Accelerating Unit in Hub
CN102691625 A 20120926	CN20111073325 20110325	SHANJUN SUN	F03D9/00; F03D3/00; F03D3/06; F03D7/06; F03D11/00; F04D25/06	Wind power generation self-driven fan
CN202451361U U 20120926	CN20112168027U 20110520	JINHE QIU	F03D1/02; F03D1/06	Wind power generation structure
KR20120131333 A 20121205	KR20110049417 20110525		F03D1/00; F03D11/02	Wind Powered Generator
EP2522852 A1 20121114	JP20110107812 20110513	TOSHIBA KK [JP]	F03D7/02; F03D11/00	Wind power generation system
AU2012216636 A1 20120920	AU20100307248 20100329; AU20120216636 20120904	SMITH DANNY	F03D1/00	Wind power generation system
CN102758734 A 20121031	CN20121239503 20120711	CHANGLIN ZHU; JIBEN YANG	F03D9/00; F03D11/02	Wind power generation system
CN102723739 A 20121010	CN20121240261 20120710	SINOVEL WIND GROUP CO LTD [CN]	H02J3/38; F03D9/00	Wind power generation system
US8253268 B1 20120828	US201213441671 20120406; US20100918705 20100329; WO2010US29077 20100329; US20090251844P 20091015	AIRGENESIS LLC [US]	F03D9/00	WIND POWER GENERATION SYSTEM

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CN202348565U U 20120725	CN20112498310U 20111202	HUAZHOU ZHANG	F03D7/00; G08C17/02	Wind power generation system
EP2520800 A1 20121107	JP20110103083 20110502; JP20120066706 20120323	TOSHIBA KK [JP]	F03D11/00; F03D7/02	Wind power generation system and control method for the same
EP2520799 A1 20121107	JP20110103083 20110502	TOSHIBA KK [JP]	F03D11/00; F03D7/02	Wind power generation system and control method for the same
KR20120131367 A 20121205	KR20110049479 20110525		F03D1/00; F03D11/02	Direct-Drive Wind Power Generation
KR20120131573 A 20121205	KR20110049846 20110526		F03D3/04; F03D7/06; F03D11/00	Wind power developmental twin turbine structures
US2012292912 A1 20121122	US201113108766 20110516	MEDIAN WIND LLC [US]	F03D9/02	WIND POWER GENERATION SYSTEM AND METHOD
DK201170593 A 20121008	DK20110070593 20111031	VESTAS WIND SYS AS [DK]	F03D7/02	Wind power generation system and method for operating a wind power generation system
EP2530308 A2 20121205	JP20110119959 20110530	HITACHI ENG SERVICE [JP]	F03D9/02; F03D7/02; F03D7/04	Wind power generation system and method for the installation of an additional wind power generator therein
KR20120134431 A 20121212	KR20110053325 20110602	KOREA INST CONSTRUCTION TECH [KR]	F03D9/00; F03D1/04; F03D3/04	WIND POWER GENERATION SYSTEM OF PANEL-TYPE ATTACHED TO OUTER WALL OF BUILDING STRUCTURE
CN202326026U U 20120711	CN20112481009U 20111128	SINOVEL WIND GROUP CO LTD [CN]	F03D9/00; B01D53/14; C01B31/20; F02B63/04; F03D9/02	Wind power generation system suitable for carbon capture
CN202510287U U 20121031	CN2012246493U 20120214	DEGANG LV; JINKU LI	F03D9/00	Wind power generation system with power generator of scraped car
KR20120131804 A 20121205	KR20110050220 20110526		F03D3/06; F03D7/06; F03D11/00	VERTICAL-AXIS TYPE WIND TURBINE WITH VARIABLE BLADES

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WO2012147118 A1 20121101	WO2011JP02399 20110425	HITACHI LTD [JP]; AZEGAMI KENICHI [JP]; SAKAMOTO KIYOSHI [JP]; YANAGIBASHI TAKUJI [JP]; MATSUNOBU TAKASHI [JP]	F03D9/00; F03D7/04	WIND POWER GENERATION SYSTEM, DEVICE USING WIND POWER GENERATION SYSTEM, AND METHOD FOR OPERATING SAME
KR101181477B B1 20120910	KR20110127922 20111201	WOW SYSTEM CO LTD [KR]	F03D11/00; F03D7/00	WIND POWER GENERATION TEST APPARATUS
CN102797643 A 20121128	CN20121269651 20120731	UNIV TONGJI	F03D11/00	Wind power generation tower device
CN202483811U U 20121010	CN20122027187U 20120118	CHEN XUEYAN	F03D11/02	Wind power generation transmission mechanism
CN102562474 A 20120711	CN20121043066 20120224	UNIV SOOCHOW	F03D9/00; F03D3/06; F03D7/06	Wind power generation turbine with retractable blades
CN202417832U U 20120905	CN20122008391U 20120110	XIAOLONG CAO	F03D9/00; B60K16/00; F03D9/02	Wind power generation unit and wind power generation system consists of same
CN102678481 A 20120919	CN20121190047 20120611	UNIV HARBIN ENG	F03D11/00; F03D11/02	Wind power generation wind collecting dam device
CN102534646 A 20120704	CN20121029959 20120211	HONGTAO ZHANG	C25B1/04; F03D9/02	Wind power generation, hydrogen production, energy storage, hydrogen supply and reserve power generation device
KR101204476B B1 20121205	KR20110129866 20111206	CHOI HYUN SOOK [KR]; KOREA ENERGY CO LTD [KR]	F03D1/00; F03D11/00; F03D11/02	WIND POWER GENERATOR
KR20120136998 A 20121220	KR20110056260 20110610	KIM JONG SUN [KR]	F03D3/06; F03D11/00	WIND POWER GENERATOR
KR20120131827 A 20121205	KR20110050268 20110526		F03D3/06; F03D11/00	A duplicated airfoil for a small wind turbine blade and a vertical wind turbine power system using this blade
KR20120131828 A 20121205	KR20110050269 20110526		F03D11/00	The blade with riblet for decreasing noise

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KR20120131829 A 20121205	KR20110050271 20110526		F03D11/00	The rotor blade with stiffener
KR20120132041 A 20121205	KR20110050616 20110527		F03D11/00; F03D11/02	Heating system for wind turbine
TWM437386U U 20120911	TW20110222355U 20090106	SHIP AND OCEAN IND R & D CT [TW]	F03D11/02; F03D11/04	Wind power generator
KR101183487B B1 20120920	KR20120035548 20120405	HAN YOUNG HWAN [KR]; HAN HYUN U [KR]; HAN HYEON DEOK [KR]	F03D3/00; F03D3/02; F03D11/00; F03D11/02	WIND POWER GENERATOR
CN202495905U U 20121017	CN20122128554U 20120330	DONGGUAN KEWANG NETWORK ENERGY CO LTD	H02P9/14; F03D9/00; H02J7/14	Wind power generator
CN202417831U U 20120905	CN20112558364U 20111228	CHENGEN LI	F03D9/00; F03D1/00; F03D1/06	Wind power generator
CN202520476U U 20121107	CN20112505900U 20111207	JINGCHU UNIVERSITY OF TECHNOLOGY	F03D1/00; F03D1/06	Wind power generator
KR20120096318 A 20120830	KR20110015660 20110222	DMS CO LTD [KR]	F03D11/00; F03D11/02; F03D11/04	WIND POWER GENERATOR
TW201226700 A 20120701	TW20100147103 20101231	METAL IND RES & DEV CT [TW]	F03D9/02	Wind power generator
US2012251320 A1 20121004	KR20090130207 20091223; WO2010KR08531 20101130	SAMSUNG HEAVY IND [KR]	F03D1/06; F03D7/02; F03D11/00	WIND POWER GENERATOR
CN102549260 A 20120704	WO2010KR06842 20101007; KR20090105325 20091103	MU-IL LEE	F03D9/00; F03D3/02; F03D3/04; F03D11/00	Wind power generator
KR20120100284 A 20120912	KR20110019076 20110303	SAMSUNG HEAVY IND [KR]	F03D11/00; F03D1/06	WIND POWER GENERATOR AND BLADE THEREFOR
TW201241305 A 20121016	TW20110111510 20110401	CHEN WEN-YUN [TW]	F03D3/06	Wind power generator and blade thereof

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EP2530305 A1 20121205	WO2010JP52657 20100222	MITSUBISHI HEAVY IND LTD [JP]	F03D7/04	WIND POWER GENERATOR AND METHOD FOR DIAGNOSING THE INTEGRITY THEREOF
CN102526913 A 20120704	CN20111412737 20111212	SHANGHAI AUSTRI WIND POWER TECHNOLOGY CO LTD	A62C3/16; F03D7/00; G08B17/00	Wind power generator cabin fire-extinguishing system
CN102588223 A 20120718	CN20121066917 20120315	NANJING WIND POWER TECHNOLOGY CO LTD	F03D11/00; F03D7/02	Wind power generator capable of realizing freezing detection and freezing detecting method of wind power generator
CN102606403 A 20120725	CN20111026230 20110125	BEIJING JUNANTAI PROT TECHNOLOGIES CO LTD [CN]	F03D9/00; F03D3/00; F03D3/06; F03D11/00; H02N15/00	Wind power generator for driving multiple generators by magnetic suspension vertical wind blade rotating cage
DE102011003038 A1 20120726	DE201110003038 20110124	SIEMENS AG [DE]	F03D11/04; H01R39/00; H01R39/10	Wind power generator has slip-ring device with contact brushes, where one of the brushes is displaced in radial direction relative to clearance between sliding bearing and rotor shaft while maintaining electrical contact with shaft
WO2012177071 A2 20121227	KR20110060959 20110623	KWON JUMUN [KR]	F03D1/02; F03D11/00; F03D11/02	WIND POWER GENERATOR HAVING AN AUXILIARY BLADE
KR101169225B B1 20120727	KR20110109934 20111026	CHEMICAL PLANT & SYSTEM ENGINEERING CO LTD [KR]	F03D3/06; F03D9/00; F03D11/00	WIND POWER GENERATOR HAVING VERTICAL AXIS
KR101176017B B1 20120824	KR20120052762 20120518	SUNWOO INDUSTRY MACHINE CO LTD [KR]; KIM JONG PHIL [KR]	F03D1/02; F03D1/06; F03D7/00; F03D11/02	WIND POWER GENERATOR OF DUAL ROTOR BLADE TYPE
KR20120110655 A 20121010	KR20110028661 20110330	HAN SUNG HEE [KR]	F03D3/04; F03D9/00; F03D11/00; F03D11/04	WIND POWER GENERATOR OF INDUCENT GALE
KR101174291B B1 20120816	KR20110144538 20111228	LEE MOUNG HOON [KR]; LEE SEUNG CHUL [KR]	F03D3/04; F03D11/00	WIND POWER GENERATOR OF TORNADO TYPE

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CN202560476U U 20121128	CN20122199286U 20120507	BO LIU	F03D9/00	Wind power generator on chimney
CN102734066 A 20121017	CN20121223690 20120628	GOLDWIND SCIENCE & TECHNOLOGY CO LTD	F03D7/00; F03D11/00	Wind power generator safety chain and wind power generator control system
JP2012145093 A 20120802	JP20110017200 20110112	YAMAMOTO KENJI	F03D9/00; F03D1/06	WIND POWER GENERATOR SCARCELY GENERATING LOW-FREQUENCY NOISE HARMFUL TO HUMAN BODY AND CAPABLE OF CONTINUOUSLY OBTAINING POWER EVEN THOUGH WIND FORCE IS WEAK
CN102661244 A 20120912	CN20121150935 20120515	NINGBO INST MAT TECH & ENG CAS	F03D7/00; F16D63/00; F16D65/14	Wind power generator set and magnetic thixotropic flexible braking device of wind power generator set
CN102661245 A 20120912	CN20121150930 20120515	NINGBO INST MAT TECH & ENG CAS	F03D7/02; F03D9/00; F16D57/00; F16D65/14	Wind power generator set and yawing-braking magnetic thixotropic flexible braking device of wind power generator set
CN102606399 A 20120725	CN20121057841 20120307	ZHIGANG JI	F03D7/04; F03D9/00	Wind power generator unit for automatically regulating blade angle according to strength of wind power
KR20120132803 A 20121210	KR20110051150 20110530		F03D11/00	APPARATUS FOR AUTOMATIC LAMINATING FIBER OF WIND BLADE
KR20120096134 A 20120830	KR20110015345 20110222	STX OFFSHORE & SHIPBUILDING CO LTD [KR]	F03D1/04; F03D11/00	WIND POWER GENERATOR WITH ACCELERATION DUCT
CN202300831U U 20120704	CN20112198802U 20110614	JIKANG SHEN	F03D3/02; F03D11/00	Wind power generator with driving mode of two-groups of wind wheels
KR20120105645 A 20120926	KR20110023196 20110316	WHASHIN ENERGY CO LTD [KR]; KOH JAE WOOK [KR]	F03D1/06; F03D11/00	WIND POWER GENERATOR WITH FOLDING BLADES
KR20120133116 A 20121210	KR20110051628 20110530		F03D3/04; F03D3/06; F03D11/00	VERTICAL AXIS TYPE WIND POWER DEVICE

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US2012217756 A1 20120830	DE200910051651 20091102; WO2010EP66068 20101025	SIEMENS AG [DE]	F03D1/06	WIND POWER GENERATOR WITH INTERNAL COOLING CIRCUIT
TW201229387 A 20120716	TW20110101223 20110113	UNIV NAT CHANGHUA EDUCATION [TW]	F03D9/00; G09F19/12	Wind power generator with light trail information display function and electronic control method thereof
CN102691624 A 20120926	CN20111071274 20110322	XIANGMING ZHANG; XU LI	F03D9/00; F03D3/00; F03D3/06	Wind power generator with multiple stages of vertical blades
KR20120115196 A 20121017	KR20120099332 20120907	GANGNUNG WONJU NAT UNIVERSITY INDUSTRY ACADEMY COOPERATION GROUP [KR]	F03D3/00; F03D7/06; F03D11/00; F03D11/02	WIND POWER GENERATOR WITH VERTICAL ROTOR
KR20120092225 A 20120821	KR20110012124 20110211	GANGNUNG WONJU NAT UNIVERSITY INDUSTRY ACADEMY COOPERATION GROUP [KR]	F03D3/00; F03D11/02	WIND POWER GENERATOR WITH VERTICAL ROTOR
KR20120089185 A 20120809	KR20110009960 20110201	KO YOUNG EUN [KR]	F03D3/04; F03D11/00	WIND POWER GENERATOR WITH WIND GUIDE
CN102758743 A 20121031	CN20121269178 20120730	SINOVEL WIND GROUP SHANGHAI CO LTD	F03D11/00	Wind power generator yawing cable-twisting protection method and device
CN202532950U U 20121114	CN2012235806U 20120206	SHENYANG SHIJIE ELECTRICAL APPLIANCE CO LTD	F28D20/00; F03D9/00	Wind power heat producing and accumulating device
CN102661241 A 20120912	DE201010055687 20101222	EADS DEUTSCHLAND GMBH	F03D3/02; F03D3/04; F03D3/06; F03D9/00	Wind power hybrid rotor
US2012205915 A1 20120816	DK20090070176 20091028; WO2010EP66317 20101028	VESTAS WIND SYS AS [DK]	F03D9/00	WIND POWER INSTALLATION AND METHODS OF USING A MACHINE FRAME IN A WIND POWER INSTALLATION

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NZ588515 A 20121130	DE200810018790 20080415; WO2009EP54296 20090409	ALOYS WOBBEN	F03D1/00; F03D11/00; F03D11/04; H02G5/00	WIND POWER INSTALLATION WITH BUSBAR ELEMENTS PRE-INSTALLED IN PYLON SEGMENTS
WO2012089726 A1 20120705	EP20100016098 20101227	AREVA WIND GMBH [DE]; KOEHNE ANSGAR [DE]; ARNDT JOACHIM [DE]	F03D1/00; F03D11/00	WIND POWER INSTALLATION WITH HELICOPTER HOISTING PLATFORM
CN102678444 A 20120919	CN20121162334 20120523	CHUINAN QIU	F03D3/00	Wind power kinetic energy generation system for improving wind energy conversion by omnidirectional wind power resource
CN202468154U U 20121003	CN20112484490U 20111129	CHUNXIU HUANG	F03D3/02; F03D3/06; F03D7/06; F03D9/00	Wind power linking rotation energy generating device structure
CN102729722 A 20121017	CN20121242833 20120714	WUXI TONGCHUN NEW ENERGY TECH	B44D2/00; F03D9/02; G09F27/00	Wind power new energy culture music calligraphy and painting
CN202381258U U 20120815	CN20112553726U 20111227	BAODING TIANWEI GROUP CO LTD	F03D7/04	Wind power optimization controller
CN202326031U U 20120711	CN20112438149U 20111108	FUJIAN AVIONIC CONTROL EQUIPMENT CO LTD	F03D9/02; F03B13/26	Wind power or tidal energy collecting and converting system
US2012251317 A1 20121004	DE201110015970 20110404	REITMAIER MARC [DE]	F03D7/00; F03D11/00	WIND POWER PLANT
WO2012145776 A1 20121101	AT20110000591 20110428	PENZ ALOIS [AT]	F03D3/02; F03D3/04; F03D7/06; F03D11/04	WIND POWER PLANT
PL394374 A1 20121008	PL20110394374 20110329	STEPIEN ANDRZEJ JACEK [PL]	F03D3/00; F03D3/06	Wind power plant
AU2011204560 A1 20120705	DE201010000756 20100108; WO2011EP50202 20110110	WOBBEN ALOYS [DE]	F03D11/00	Wind power plant

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WO2012150027 A1 20121108	DE201110050032 20110502	VOITH PATENT GMBH [DE]; SCHECHNER HANSJOERG [DE]	F03D9/02; F03B13/06; F03D11/04	WIND POWER PLANT AND DEVICE FOR ACQUIRING ELECTRICAL ENERGY WITH SUCH A WIND POWER PLANT
EP2504575 A1 20121003	DE200910055784 20091125; WO2010EP65391 20101014	SIEMENS AG [DE]	F03D11/00	WIND POWER PLANT AND METHOD FOR TEMPERATURE REGULATION OF AT LEAST ONE COMPONENT OF A WIND POWER PLANT
AU2011209381 A1 20120816	DE201010005991 20100127; WO2011EP51116 20110127	WOBBEN PROPERTIES GMBH [DE]	F03D11/04	Wind power plant and wind power plant tower segment
CA2738519 A1 20120810	WO2011JP52885 20110210	MITSUBISHI HEAVY IND LTD [JP]	F03D9/02; F03D7/00; H02J15/00	WIND POWER PLANT AND WIND-POWER-PLANT CONTROL METHOD
US2012257968 A1 20121011	US201013376580 20101207; DK20090001327 20091215; US20090286415P 20091215; WO2010DK50332 20101207	DALSGAARD SOREN [DK]	F03D7/04	WIND POWER PLANT CONTROLLER FOR AVOIDING COMMON CAUSE SHUTDOWN
CN102612598 A 20120725	WO2010EP67431 20101115; IT2009MI02007 20091116	WILIC SARL	F03D1/00; E04H12/18; F03D11/04	Wind power plant for producing electric energy, and relative pylon construction method
DE102011102289 A1 20121129	DE201110102289 20110523	LOEWE HORST [DE]	F03D5/02; F03D3/06	Wind power plant for producing energy, has vertical asymmetrical wings for forming rigid wing, where vertical wings are provided for profile shape adjustment

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DE102011117446 A1 20121206	DE201110106192 20110606; DE201110117446 20111031	THIEME KLAUS [DE]	F03D9/00; F03D3/00; F03D3/02	Wind power plant for production of electrical power for building, has shells with rear sides provided with covers after assembly of arms, where arms are laterally guided and secured through streamlined shaped shells without planar bottom
DE102011010169 A1 20120802	DE201110010169 20110202	DAUME PATENTBESITZGMBH & CO KG [DE]	F03D11/00; F03D7/00	Wind power plant has wind power converter arrangement, where electric energy is stored in electricity network and electric energy is supplied in normal operating mode from wind power converter arrangement
WO2012126558 A1 20120927	DE201110014537 20110318	NORDEX ENERGY GMBH [DE]; MAGNUS STEFAN [DE]; THIEL ENRICO [DE]	F03D11/00; H02G13/00	WIND POWER PLANT HAVING A ROTOR BLADE AND A LIGHTNING CONDUCTOR
KR20120103211 A 20120919	KR20110021349 20110310	KIM SOUNG HYOUN [KR]	F03D9/00; F03D1/02; F03D1/04; F03D11/00	WIND POWER PLANT SYSTEM USING GASES WITH CORIOLIS EFFECT
AU2011252255 A1 20121129	DE201010015075 20100415; WO2011EP55969 20110414	REPOWER SYSTEMS SE [DE]	F03D11/00; F03D11/04	Wind power plant with modular tower system and method for the mounting thereof
CA2770637 A1 20120910	CN20111058365 20110310	SINOVEL WIND GROUP CO LTD [CN]	G01R21/00; F03D11/00; H02J13/00	WIND POWER PREDICTION METHOD OF SINGLE WIND TURBINE GENERATOR
CN202451362U U 20120926	CN20122096170U 20120314	XIAOHU XUE	F03D5/00	Wind power propulsion device
CN102582811 A 20120718	CN20121053984 20120223	UNIV QINGDAO SCIENCE & TECH	B63H19/00; B63H21/17; F03D9/00; F03D9/02	Wind power sailing boat with integral rotor and power generating method

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CN202560942U U 20121128	CN20122155664U 20120413	TIANJIN TEEK TRANSMISSION CO LTD	F16H1/28; F03D11/02; F16H57/021; F16H57/023; F16H57/033; F16H57/08	Wind power speed-up box of composite planetary transmission mechanism
CN202483800U U 20121010	CN20122128136U 20120329	YUNRANG PIAN	F03D9/00; F03D3/02; F03D3/06	Wind power station
JP2012137059 A 20120719	JP20100291231 20101227	SINFONIA TECHNOLOGY CO LTD	F03D3/06; F03D11/00	WIND POWER STATION
CN102606407 A 20120725	CN20121089573 20120329	YUNRANG PIAN	F03D9/00; F03D1/00; F03D1/04; F03D1/06; F03D3/00; F03D3/04; F03D3/06; F03D11/00	Wind power station and power generation method thereof
CN102792014 A 20121121	WO2011US24788 20110214; US20100721628 20100311	BOEING CO	F03D9/02; F03D5/02	Wind power system
CN202326048U U 20120711	CN20112463402U 20111119	NINGBO JINWEI STANDARD PART CO LTD	F03D11/04	Wind power tower assembly
CN102705180 A 20121003	CN20121209546 20120625	JINAN RAILWAY VEHICLES EQUIP	F03D11/00; B32B1/08; B32B17/04; B32B17/06; B32B27/04; B32B27/06; B32B27/40	Wind power tower cylinder made of composite materials
KR20120114702 A 20121017	KR20110032394 20110407	KIM SUNG YOUL [KR]	F03D3/06; F03D3/04; F03D11/00	WIND POWER TURBINE, AND VERTICAL WIND GENERATOR THEREOF
WO2012169411 A1 20121213	JP20110128353 20110608	MIKAMI HIROYASU [JP]	F03D9/00; F03D5/02	WIND POWER UTILIZATION SYSTEM
CN202468168U U 20121003	CN20122051386U 20120217	DENGRONG ZHOU; JIAN ZHOU	F03D9/00; F03D1/06; H02J3/38	Wind power utilization system
CN102787975 A 20121121	CN20121241525 20120712	UNIV SHANGHAI JIAOTONG	F03D7/00	Wind power variable propeller control system based on alternating current permanent magnet synchronous motors

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KR20120133331 A 20121210	KR20110051959 20110531		F03D1/06; F03D11/00	Noise reduction technology for wind turbine blade
CA2734267 A1 20120928	CA20112734267 20110328	WARD RICHARD [CA]	F03D5/00	WIND POWERED GENERATOR
EP2514968 A1 20121024	JP20090285537 20091216; WO2010JP71219 20101129	MITSUBISHI HEAVY IND LTD [JP]	F03D11/00	WIND POWERED GENERATOR
KR20120133689 A 20121211	KR20110052464 20110531		F03D11/04	Tower Entrance For Wind Turbine
US2012286513 A1 20121115	US201113200309 20110923	MARANO ANDREW CARMEN [US]	F03D9/02; F03D9/00	Wind powered vehicle turbine
KR20120103783 A 20120920	KR20110021605 20110311	LEE MYUNG SOO [KR]; LEE SANG MOON [KR]	B60L8/00; B60K16/00; F03D9/00	WIND PRESSURE GENERATION AUTOMOBILE
JP2012154311 A 20120816	JP20110045683 20110122	ABE YOSHIO	F03D3/06; F03D11/00	WIND RELIEVING WINDMILL VANE
WO2012141237 A1 20121018	JP20110090955 20110415	MITSUBISHI HEAVY IND LTD [JP]; SHIGETOMI TOSHIKAZU [JP]; KAWASETSU NOZOMU [JP]; KUROIWA TAKAO [JP]	F03D11/00; F03D1/06	WIND ROTOR BLADE
US2012301301 A1 20121129	US201213357424 20120124; US201113134049 20110527; US20100456876P 20101115	SAUER DIETER [US]	F03D3/00; F03D11/02	Wind Sail Turbine
MX2012001112 A 20121126	US201113134049 20110527	SAUER ENERGY INC [US]	F03D7/02	WIND SAIL TURBINE.

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EP2494192 A1 20120905	EP20090013565 20091028; WO2010EP66008 20101023; EP20100775762 20101023	SSB WIND SYSTEMS GMBH & CO KG [DE]	F03D7/04; F03D11/00; G01P5/00; G01P13/02	WIND SENSOR SYSTEM USING BLADE SIGNALS
DE102011015421 A1 20121004	DE20111015421 20110329	SCHMIDT RAINER [DE]	F03D9/00; F03D1/02; F03D3/02	Wind small power plant has rotor and electric generator such that rotor and generator are arranged in housing, where arrangements are interchangeably combined with rotor systems that are different from each other
CN202404854U U 20120829	CN20112445795U 20111112	XINHAN SHEN	G09F13/02; F03D9/00; H02J9/04	Wind solar hybrid independent power supply outdoor advertising lighting system
CN202417863U U 20120905	CN20112528110U 20111216	SHANDONG LINYI TOBACCO CO LTD	F04B17/00; F03D9/00; H02J7/35	Wind solar hybrid power generation pumping system
KR101193271B B1 20121019	KR20120093569 20120827	INDUSTRY ACADEMIC COOPERATION FOUNDATION KUNSAN NAT UNIVERSITY [KR]	F03D9/00; F03D3/00; F03D3/04; F03D11/00	WIND THERMAL APPARATUS FOR BUILDING HAVING THE WIND GUIDE
CN102734067 A 20121017	CN20121235673 20120706	CHINA CREATIVE WIND ENERGY CO LTD	F03D7/00	Wind thrust pitch-variable mechanism
CN102635505 A 20120815	CN20121105172 20120405	XIANGQING KONG	F03D9/00; F03D1/04; F03D7/04	Wind tunnel type wind power energy conversion generating set
KR20120133809 A 20121211	KR20110052667 20110601		A47C11/00; F03D9/00; F21V33/00; H01L31/042	hybrid multi bench
WO2012172349 A1 20121220	GB20110009894 20110613	SOUTH BOATS SPECIAL PROJECTS LTD [GB]; HUGHES DEREK [GB]	F03D3/02; F03D3/04	WIND TURBINE

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US2012306215 A1 20121206	GB20100002558 20100216; WO2011GB00193 20110215	WESBY PHILIP [GB]; TURNER CHRISTOPHER [GB]	F03D9/00	Wind Turbine
KR20120102710 A 20120918	DE200910044570 20091117	SSB WIND SYSTEMS GMBH & CO KG [DE]	F03D7/02; F03D7/04	WIND TURBINE
KR20120097908 A 20120905	KR20110017463 20110225	UNIV SOGANG IND UNIV COOP FOUN [KR]	F03D11/00; F03D1/06; F03D3/06	WIND TURBINE
CN102777323 A 20121114	CN20121257580 20120724	MINGXUE YANG	F03D7/06	Wind turbine
WO2012155536 A1 20121122	CN20111148490 20110518	YUAN HONG [CN]	F03D9/02; F24J2/06; H02K7/18	WIND TURBINE
CN102678441 A 20120919	CN20121136850 20120507	YIFANG YANG	F03D1/00; F03D1/06	Wind turbine
WO2012131032 A2 20121004	DE201110006635 20110401	WOBBEN PROPERTIES GMBH [DE]; STOLTENJOHANNES JUERGEN [DE]; BRENNER ALBRECHT [DE]	F03D11/00; G01M5/00; G01M11/08	WIND TURBINE
WO2012138518 A1 20121011	US201113083432 20110408	MOK PETER [US]	F03D1/02; F03D7/02	WIND TURBINE
WO2012120484 A2 20120913	IT2011MI00374 20110310	WILIC S AR L [LU]; CASAZZA MATTEO [IT]; PABST OTTO [IT]; FASOLO ALESSANDRO [IT]	H02K1/27; F03D9/00; H02K5/18; H02K7/18	WIND TURBINE
CA2770666 A1 20120910	IT2011MI00375 20110310	WILIC S AR L [LU]	H02K1/30; F03D1/00	WIND TURBINE
CA2769295 A1 20120825	EP20110155931 20110225	SIEMENS AG [DE]	H02K3/04; F03D11/00; H02H7/10; H02J3/38; H02K3/28	WIND TURBINE

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CA2769274 A1 20120825	EP20110156049 20110225	SIEMENS AG [DE]	H02J3/46; F03D11/00; H02M1/32	WIND TURBINE
CA2764623 A1 20120718	EP20110151237 20110118	SIEMENS AG [DE]	F03D11/00; F03D7/00; H02K7/10; H02K7/18	WIND TURBINE
EP2514964 A1 20121024	EP20110461512 20110420	PISKORZ WALDEMAR [PL]	F03D3/04	Wind turbine
US2012195759 A1 20120802	US201113086148 20110413; US20100342343P 20100413	FELDHAUS PHIL [US]	F03D3/06	Wind Turbine
EP2505541 A1 20121003	EP20110382091 20110331	ALSTOM WIND S L U [ES]	B66C17/04; B66C23/18; B66C23/30; F03D1/00; F03D11/04	WIND TURBINE
EP2505830 A1 20121003	EP20110382090 20110331	ALSTOM WIND S L U [ES]	F03D11/00	Wind turbine
EP2505822 A1 20121003	EP20110382089 20110331	ALSTOM WIND S L U [ES]	F03D1/00; F03D11/00	Wind turbine
CN102639867 A 20120815	WO2010KR09413 20101228; KR20090134940 20091230	MOK YOON JEEN	F03D1/00; F03D11/02	Wind Turbine
KR20120073072 A 20120704	KR20100135080 20101226	RES INST IND SCIENCE & TECH [KR]	F03D11/00; F03D11/04	WIND TURBINE
EP2499363 A2 20120919	DE200910052493 20091111; WO2010DE01242 20101020	UNI WIND GMBH [DE]	F03D11/02; F03D1/02; F03D7/02; F03D9/00	WIND TURBINE
EP2472105 A2 20120704	ES20100031996 20101229	ACCIONA WINDPOWER S A [ES]	F03D7/02	Wind turbine - floating platform assembly and method for orienting said assembly

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CN102661238 A 20120912	DK20100070510 20101126; US20100417335P 20101126	VESTAS WIND SYS AS [DK]	F03D1/06; F03D7/02	Wind turbine and a method for pitching a blade of a wind turbine
DK201170046 A 20120727	DK20110070046 20110126	SE BLADES TECHNOLOGY B V [NL]	F03D7/00; F03D11/00	Wind Turbine and a method of temperature conditioning a wind turbine
KR20120133954 A 20121211	KR20110052909 20110601		F03D1/06; F03D11/00	Blade for horizontal axis wind power generation
CA2778636 A1 20121203	EP20110168738 20110603	WILIC S AR L [LU]	F03D7/00; F03D7/04; H02P9/06	WIND TURBINE AND CONTROL METHOD FOR CONTROLLING THE SAME
EP2527651 A2 20121128	CN20111141198 20110527	GEN ELECTRIC [US]	F03D11/00	Wind Turbine and Method for Determining Parameters of Wind Turbine
CN102562491 A 20120711	US20100976530 20101222	GEN ELECTRIC [US]	F03D11/04; F03D1/00	Wind turbine and method for operating wind turbine erected in a body of water
EP2532889 A1 20121212	EP20110382186 20110606	ALSTOM WIND S L U [ES]	F03D9/00; H02P9/00; H02P27/08	Wind turbine and method of operating a wind turbine
WO2012125684 A1 20120920	US201213353998 20120119; US201161453811P 20110317	VIA VERDE LTD [US]; MILLER COURTLAND G [US]	F03D9/00; F03D3/02; F03D3/06	WIND TURBINE APPARATUS
EP2505832 A2 20121003	US201161469246P 20110330; DK20110070148 20110330	VESTAS WIND SYS AS [DK]	F03D11/00; F03D9/00	Wind turbine arrangement
US2012207610 A1 20120816	US201013501483 20101102; US20090257564P 20091103; WO2010US55047 20101102	SEPSTAR INC [US]	F03D11/00	WIND TURBINE BLADE

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CN102536633 A 20120704	DK20100070569 20101221	ENVISION ENERGY DENMARK APS [DK]	F03D1/06	Wind turbine blade
CN202370744U U 20120808	CN20112482985U 20111129	UNIV JILIN	F03D1/06	Wind turbine blade airfoil
US2012189444 A1 20120726	US201213438319 20120403; US20080331224 20081209; WO2006DK00326 20060609	VESTAS WIND SYS AS [DK]	F03D1/06; F03D7/02; F03D11/00	WIND TURBINE BLADE AND A PITCH CONTROLLED WIND TURBINE
US2012237356 A1 20120920	CN20091175882 20090923; WO2010CN01450 20100920	SUZHOU RED MAPLE WIND BLADE MOULD CO LTD [CN]	B32B37/14; B32B37/12; F03D1/06	WIND TURBINE BLADE AND ITS PRODUCING METHOD
CN102536632 A 20120704	DK20100070584 20101223; US201061424265P 20101217	VESTAS WIND SYS AS [DK]	F03D1/06; F03D1/00	Wind turbine blade and method for manufacturing a wind turbine blade with vortex generators
EP2504569 A2 20121003	US20090264039P 20091124; WO2010US57801 20101123	RONNER DAVID E [US]	F03D1/06	WIND TURBINE BLADE AND METHODS, APPARATUS AND MATERIALS FOR FABRICATION IN THE FIELD
WO2012164167 A1 20121206	FI20110005536 20110531	TEKNOLOGIAN TUTKIMUSKESKUS VTT [FI]; PELTOLA ESA [FI]; VUOMAJOKI PAULI [FI]; WALLENIUS TOMAS [FI]; HUUHTANEN RAIMO [FI]	F03D11/00	WIND TURBINE BLADE AND RELATED METHOD OF MANUFACTURE
WO2012117979 A1 20120907	JP20110043189 20110228	MITSUBISHI HEAVY IND LTD [JP]; FUKAMI KOJI [JP]	F03D11/00	WIND TURBINE BLADE AND WIND-POWERED ELECTRICITY GENERATOR PROVIDED WITH SAME
CA2764165 A1 20120717	EP20110151133 20110117	SIEMENS AG [DE]	F03D11/00; F16C35/06	WIND TURBINE BLADE BEARING

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GB2487083 A 20120711	GB20110000260 20110107	VESTAS WIND SYS AS [DK]	F03D1/00; F03D1/06	Wind turbine blade bearing removal apparatus and method
WO2012140039 A2 20121018	EP20110161888 20110411; EP20110161886 20110411; EP20110161891 20110411; EP20110161902 20110411	LM WIND POWER AS [DK]; DAHL MARTIN [DE]; MORTENSEN BJARNE KRAB [DK]; HORNBLOW BENJAMIN [DK]	F03D1/06; B29C70/54; B29C70/86; B29D1/00; F01D5/28	WIND TURBINE BLADE COMPRISING CIRCUMFERENTIAL RETAINING MEANS IN ROOT REGIONS
WO2012140049 A2 20121018	EP20110161896 20110411; EP20110161894 20110411	LM WIND POWER AS [DK]; DAHL MARTIN [DE]; MORTENSEN BJARNE KRAB [DK]; HORNBLOW BENJAMIN [DK]	B29C70/86; F01D5/28; F03D1/06	WIND TURBINE BLADE COMPRISING CYLINDRICAL METAL INSERTS IN A ROOT REGION THEREOF
EP2497941 A1 20120912	EP20110157298 20110308	LM WIND POWER AS [DK]	F03D1/06	Wind turbine blade comprising root end bulkhead
GB2486876 A 20120704	GB20100021534 20101220	VESTAS WIND SYS AS [DK]	F03D7/02; F03D1/06	Wind turbine blade flap
CN102575642 A 20120711	WO2010EP65076 20101008; EP20090172597 20091008	LM GLASFIBER AS [DK]	F03D1/06	Wind turbine blade having a forwardly oriented flow guiding device
WO2012140048 A2 20121018	EP20110161892 20110411; EP20110161908 20110411	LM WIND POWER AS [DK]; DAHL MARTIN [DE]; MORTENSEN BJARNE KRAB [DK]; HORNBLOW BENJAMIN [DK]	B29C70/86; F01D5/28; F03D1/06	WIND TURBINE BLADE HAVING A ROOT REGION WITH ELONGATED FASTENING MEMBERS PROVIDED WITH METAL FIBRES
EP2507509 A2 20121010	US20090283246P 20091130; WO2010IB03065 20101130	CLIPPER WINDPOWER LLC [US]	F03D1/06	WIND TURBINE BLADE LOWERING APPARATUS

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CA2738145 A1 20120815	WO2011JP53170 20110215	MITSUBISHI HEAVY IND LTD [JP]	F03D7/02; F03D11/00	WIND TURBINE BLADE PITCH-CONTROL SYSTEM, AND WIND TURBINE ROTOR AND WIND TURBINE GENERATOR PROVIDED WITH THE SAME
CN102803714 A 20121128	WO2010EP56817 20100518; EP20090160501 20090518	LM GLASFIBER AS [DK]	F03D1/06	Wind turbine blade provided with flow altering devices
CN102713269 A 20121003	WO2010EP68301 20101126; EP20090177500 20091130	LM GLASFIBER AS [DK]	F03D7/02; F03D7/04; G01P5/26	Wind turbine blade provided with optical wind velocity measurement system
DK201270373 A 20121209	US201113155791 20110608	GEN ELECTRIC [US]	F03D1/06	Wind turbine blade shear web with spring flanges
CN102562487 A 20120711	CN20121065228 20120313	GUODIAN UNITED POWER TECH CO [CN]	F03D11/00	Wind turbine blade with anti-ice/ice-removing function
WO2012089544 A1 20120705	EP20100197347 20101230	LM WIND POWER AS [DK]; LINDBY TORBEN [DK]; MORTENSEN IVAN ENGMARK [DK]	F03D1/06; G01M5/00	WIND TURBINE BLADE WITH CROSS-SECTIONAL SENSORS
CN102606414 A 20120725	CN20111027353 20110124	ZHONGSHAN BONDERRA IND CO LTD	F03D11/00; B29C70/54; C08L23/22; C08L45/00; C08L63/00; F16F15/10	Wind turbine blade with damping vibration attenuation structural layer and method for manufacturing wind turbine blade
WO2012140043 A2 20121018	EP20110161909 20110411	LM WIND POWER AS [DK]; DAHL MARTIN [DE]	B29C70/86; F01D5/28; F03D1/06	WIND TURBINE BLADE WITH ELONGATED FASTENING MEMBERS IN THE ROOT REGION THEREOF
CN102705176 A 20121003	CN20121161249 20120518	UNIV SHANGHAI JIAOTONG	F03D11/00; F03D7/00	Wind turbine blade with embedded diversion pipe capable of controlling tip vortex
CN202483809U U 20121010	CN20122092277U 20120313	GUODIAN UNITED POWER TECH CO [CN]	F03D11/00	Wind turbine blade with functions of anti-icing and deicing

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US2012321468 A1 20121220	EP20100155836 20100308; WO2011EP53296 20110304	LM GLASFIBER AS [DK]	F03D11/00; F03D1/06	WIND TURBINE BLADE WITH LIGHTNING PROTECTION SYSTEM
US2012243997 A1 20120927	US201213470405 20120514; EP20080011962 20080702; US20090489699 20090623	OLSEN KAJ [DK]	F03D11/00; B65H81/00; F03D1/06; H01B19/00	Wind turbine blade with lightning receptor and method for protecting the surface of a wind turbine blade
CN102549258 A 20120704	WO2010EP65078 20101008; EP20090172592 20091008	LM GLASFIBER AS [DK]	F03D1/06	Wind turbine blade with longitudinally extending flow guiding device having a plate-shaped element
CN102562437 A 20120711	US20100968709 20101215	GEN ELECTRIC [US]	F03D1/06	Wind turbine blade with modular leading edge
WO2012156359 A1 20121122	EP20110166249 20110516	LM WIND POWER AS [DK]; YAO QINGSHAN [DK]	F03D1/06	WIND TURBINE BLADE WITH NOISE REDUCTION DEVICES AND RELATED METHOD
CN102575643 A 20120711	WO2010EP65075 20101008; EP20090172594 20091008	LM GLASFIBER AS [DK]	F03D1/06	Wind turbine blade with plurality of longitudinally extending flow guiding device parts
WO2012140062 A2 20121018	EP20110161906 20110411	LM WIND POWER AS [DK]; DAHL MARTIN [DE]; MORTENSEN BJARNE KRAB [DK]; HORNBLOW BENJAMIN [DK]	B29C70/86; F01D5/28; F03D1/06	WIND TURBINE BLADE WITH TAPERING ROOT BUSHINGS
EP2511477 A1 20121017	EP20110161889 20110411; EP20110174628 20110720	LM WIND POWER AS [DK]	F01D5/28; F03D1/06	Wind turbine blade with transition region

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JP2012163049 A 20120830	JP20110024196 20110207	MITSUBISHI HEAVY IND LTD [JP]	F03D11/00; F03D1/06	WIND TURBINE BLADE, AND WIND TURBINE GENERATOR INCLUDING THE SAME
WO2012095478 A1 20120719	EP20110150993 20110114	LM WIND POWER AS [DK]; BAEK PETER [DK]	F03D1/06; F03D7/02	WIND TURBINE BLADE, WIND TURBINE AND METHOD OF CONTROLLING SUCH
US2012217754 A1 20120830	JP20110043188 20110228; WO2012JP53713 20120216	MITSUBISHI HEAVY IND LTD [JP]	F03D9/00; F03D1/06; G06F17/50	WIND TURBINE BLADE, WIND TURBINE GENERATOR WITH THE SAME, AND DESIGN METHOD OF WIND TURBINE BLADE
WO2012117866 A1 20120907	JP20110043188 20110228	MITSUBISHI HEAVY IND LTD [JP]; FUKAMI KOJI [JP]	F03D1/06; F03D9/00; F03D11/00	WIND TURBINE BLADE, WIND-POWERED ELECTRICITY GENERATOR PROVIDED WITH SAME, AND METHOD FOR DESIGNING WIND TURBINE BLADE
CN102575644 A 20120711	WO2010GB02016 20101101; GB20090019198 20091102	QINETIQ LTD	F03D1/06; H01Q17/00	Wind turbine blades
DK201270044 A 20120729	US201113015870 20110128	GEN ELECTRIC [US]	F03D1/06	Wind turbine blades with a hardened substrate construction
WO2012122669 A1 20120920	WO2011CN00395 20110314	GEN ELECTRIC [US]; XIONG WEI [US]; ZHANG DANIAN [US]; HUANG XIONGZHE [CN]; WANG JING [US]; XIA JINGYUN [CN]	F03D11/00; F03D7/00; G01L13/00; G01M9/06	WIND TURBINE BLADES WITH AIR PRESSURE SENSORS
CN102536637 A 20120704	US20100966190 20101213	GEN ELECTRIC [US]	F03D1/06	Wind turbine blades with improved bond line and associated method
CN102536636 A 20120704	US20100966173 20101213	GEN ELECTRIC [US]	F03D1/06	Wind turbine blades with improved bond line and associated method

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WO2012100772 A1 20120802	DK20110070053 20110128; US201161437035P 20110128	VESTAS WIND SYS AS [DK]; LUND LARS [DK]	C23F13/02; F03D1/06	WIND TURBINE COMPONENT HAVING A CORROSION PROTECTION STRUCTURE, AND WIND TURBINE HAVING THE SAME
DE102011000186 A1 20120719	DE201110000186 20110117	POETZSCH HOLGER [DE]	F03D1/00; F03D1/06; F03D9/00	Wind turbine comprises rotor hub which is connected with drive shaft over torsion spring device
CN102597509 A 20120718	WO2010EP06426 20101020; DE200910051215 20091029	LI TEC BATTERY GMBH	F03D9/02	Wind turbine comprising a battery arrangement
PT1794450E E 20121112	DE200410046700 20040924	WOBBEN ALOYS [DE]	F03D9/00; F03D11/00; H02K7/18; H02K9/26	WIND TURBINE COMPRISING A GENERATOR COOLING SYSTEM
EP2527643 A2 20121128	ES20110000577 20110524	GAMESA INNOVATION & TECH SL [ES]	F03D7/02	Wind turbine control methods and systems for cold climate and low altitude conditions
WO2012164387 A1 20121206	US201161490765P 20110527	CONDOR WIND ENERGY LTD [GB]; CARUSO SILVESTRO [GB]; JAKUBOWSKI MARTIN [GB]; CAIOLI LUCIANO [GB]	F03D7/02	WIND TURBINE CONTROL SYSTEM HAVING A THRUST SENSOR
WO2012130244 A2 20121004	US201161469209P 20110330; DK20110070325 20110624	VESTAS WIND SYS AS [DK]; BENGTSON JOHN [DK]; DONESCU VICTOR [US]; KJAER PHILIP CARNE [DK]; SKAUG KENNETH [DK]	F03D7/04; G05B9/03	WIND TURBINE CONTROL SYSTEM WITH DECENTRALIZED VOTING

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US2012306277 A1 20121206	US201113578449 20110223; DK20100070068 20100225; US20100308135P 20100225; WO2011EP52675 20110223	VESTAS WIND SYS AS [DK]	H02J3/00	WIND TURBINE CONTROLLER APPLYING DIFFERENTIAL POLE CONTROL ALGORITHM
WO2012150718 A1 20121108	JP20110115203 20110502; JP20110197637 20110823; JP20120105265 20120502	ISHIMINE TADASHI [JP]	F03D11/02	WIND TURBINE DEVICE
WO2012155073 A2 20121115	US201161484769P 20110511	DAVIS DANIEL E [US]	F03D11/00; B66C23/18; E04H12/00; E04H12/34; F03D11/04	WIND TURBINE ELEVATOR
WO2012105032 A1 20120809	WO2011JP52327 20110204	HITACHI LTD [JP]; YANAGIBASHI TAKUJI [JP]; MATSUNOBU TAKASHI [JP]; HASEGAWA TSUTOMU [JP]; SAKAMOTO KIYOSHI [JP]; AZEGAMI KENICHI [JP]	F03D11/04; F03D9/00	WIND TURBINE FACILITY
DE102011006665 A1 20121004	DE20111006665 20110401	SIEMENS AG [DE]	F03D11/04	Wind turbine for converting kinetic energy of wind flow into electrical energy, has nacelle for receiving generator and gear coupled to generator, where vehicle is received in nacelle and is adapted to operate generator relative to gear

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DE102011016141 A1 20120927	DE20111016141 20110324	GRIMM FRIEDRICH [DE]	F03D1/04; F03D9/00	Wind turbine for converting kinetic energy of wind flow into electrical energy, has wing projection, where flow at projection is divided into unbraked air flow and another airflow so that annular turbulence is produced at rear edge
DE102011014476 A1 20120719	DE201110008544 20110114; DE201110014476 20110319	CLASS THOMAS R [DE]	F03D3/04	Wind turbine for driving power generator in wind power plant, has wind guiding plate guiding wind and impinging at more than specified degree of rotor-circumference on rotor and over circumferential angle of specified degrees to rotor
CH704828 A2 20121015	CH20110000628 20110407	ENVERGATE AG [CH]	F03D7/06	Wind turbine for generating current, has wing profiles moved around respective pivot axes and arranged such that wind pressure acting on wing profiles is reduced and/or rotational speed of turbine is reduced in releasing position
DE102012000716 B3 20121227	DE20121000716 20120114	SSB WIND SYSTEMS GMBH & CO KG [DE]	F03D11/00	Wind turbine for use in wind energy plant for generating electric energy from wind force, has holder detachably fastened to leaf bearing flanges in area of connection of hub with rotor blades such that turbine is retrofitted with wind gauge
CN102762854 A 20121031	WO2010JP69962 20101109; JP20100231793 20101014	BIRUMEN KAGOSHIMA CO LTD [JP]	F03D7/04	Wind turbine for wind power generation apparatus, and wind power generation apparatus
CN102803720 A 20121128	WO2010NO00233 20100616; NO20090002311 20090616	OLAV OLSEN AS DR TECHN	F03D11/04	Wind turbine foundation for variable water depth

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KR20120134052 A 20121211	KR20120056955 20120529		F03D7/00; G01R11/56; H02J3/32; H02J3/38	WIND POWER GENERATION SYSTEM, AND WIND POWER GENERATOR EXTENSION METHOD FOR WIND POWER GENERATION SYSTEM
WO2012097476 A1 20120726	WO2011CN00100 20110121	GEN ELECTRIC [US]; LI RUI [CN]; PAURA INGO [DE]; FUELLHAAS WOLFGANG [DE]; YERRA RADHA KRISHNA [IN]	F03D11/04; E02D27/42; F03D1/00	WIND TURBINE FOUNDATION MOUNTING PART
WO2012156128 A1 20121122	DE201110076114 20110519	ZAHNRADFABRIK FRIEDRICHSHAFEN [DE]; VESTAS WIND SYS AS [DK]; WALLISER JOCHEN [DE]; KIENZLE ALFRED [DE]; KIRSCHNER TINO [DE]; PETERSEN KNUD ERIK [DK]	F03D11/00; F16H37/04; F16H57/02	WIND TURBINE GEAR MECHANISM
DE102011080359 A1 20121206	DE20111076825 20110531; DE20111080359 20110803	SIEMENS AG [DE]	F03D11/04	Wind turbine gearbox for use in wind power plant, has oil-sealed connection part including regulating device that regulates inflow of transmission oil from external oil reservoir into oil sump in dependent on oil temperature
JP2012137070 A 20120719	JP20100291395 20101227	UNIV MIE; SINFONIA TECHNOLOGY CO LTD	F03D3/06; F03D11/00	WIND TURBINE GENERATING EQUIPMENT
PL1665495T T3 20120731	EP20030021439 20030923		H02J3/38; F03D9/00	METHOD FOR OPERATING A WIND TURBINE DURING A DISTURBANCE IN THE GRID
WO2012124536 A1 20120920	JP20110054265 20110311; JP20120045618 20120301	THK CO LTD [JP]; HAYASHI YUKI [JP]	F03D7/04; F03D11/00	WIND TURBINE GENERATOR

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CA2738004 A1 20120728	WO2011JP51772 20110128	MITSUBISHI HEAVY IND LTD [JP]	F03D11/00; F01P1/06	WIND TURBINE GENERATOR
EP2480788 A1 20120801	WO2010JP06978 20101130	MITSUBISHI HEAVY IND LTD [JP]	F03D9/00; F03D11/02	WIND TURBINE GENERATOR
CA2741594 A1 20120828	WO2011JP54463 20110228	MITSUBISHI HEAVY IND LTD [JP]	H02P9/04; F03D7/00; F03D11/00	WIND TURBINE GENERATOR AND METHOD OF CONTROLLING THE SAME
AU2011205330 A1 20120726	US20100382346P 20100913; US20100421522P 20101209; US20100657136 20100113; WO2011US21012 20110112	GRIGG CHARLES	F03D3/02; F03D3/06; F03D11/00; F03D11/02	Wind turbine generator and motor
EP2478216 A2 20120725	WO2010JP06977 20101130	MITSUBISHI HEAVY IND LTD [JP]	F03D9/00	WIND TURBINE GENERATOR AND TIDAL CURRENT GENERATOR
KR20120090760 A 20120817	WO2010JP06982 20101130	MITSUBISHI HEAVY IND LTD [JP]	F03D7/00; F03D7/04; F03D11/00; F03D11/02	WIND TURBINE GENERATOR AND TIDAL CURRENT GENERATOR AND OPERATION METHOD THEREOF
CA2764992 A1 20120731	CN20111034132 20110131	SINOVEL WIND GROUP CO LTD [CN]	G01M99/00; F03D11/00	WIND TURBINE GENERATOR AS WELL AS PARAMETER ACQUISITION SYSTEM AND METHOD THEREOF
CN102797629 A 20121128	CN20121276153 20120803	GUODIAN UNITED POWER TECH CO [CN]	F03D7/00	Wind turbine generator control method, controller and control system of wind turbine generator
EP2538075 A1 20121226	WO2010JP52291 20100216	MITSUBISHI HEAVY IND LTD [JP]	F03D7/04	WIND TURBINE GENERATOR HANDY TERMINAL AND WIND TURBINE GENERATOR
CN202560463U U 20121128	CN20122246266U 20120529	XIN JIANG UNIVERSITY	F03D7/00	Wind turbine generator independent variable pitch control device

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CN102803070 A 20121128	WO2010DK50142 20100615; EP20090164207 20090630; US20090187065P 20090615	VESTAS WIND SYS AS [DK]	B64D1/02; B64B1/50; B64D1/22; E04H12/34; F03D1/00	Wind turbine generator installation by airship
CN102803710 A 20121128	WO2010DK50143 20100615; EP20090164257 20090630; US20090187065P 20090615	VESTAS WIND SYS AS [DK]	F03D1/00; B64D1/02; B64D1/22; B64F1/12; B64F1/14	Wind turbine generator service by airship
CN202391653U U 20120822	CN20112462271U 20111121	ZEYU LI	F03D9/00; F03D7/02; F03D11/00	Wind turbine generator system
EP2478218 A1 20120725	WO2010JP06979 20101130	MITSUBISHI HEAVY IND LTD [JP]	F03D11/02; F03D9/00; F03D9/02; F03D11/00	WIND TURBINE GENERATOR SYSTEM AND OPERATION CONTROL METHOD THEREOF
CA2741569 A1 20120904	WO2011JP55086 20110304	MITSUBISHI HEAVY IND LTD [JP]	F03D9/02; F03D7/00; H02J15/00; H02K7/18	WIND TURBINE GENERATOR SYSTEM AND WIND TURBINE GENERATOR
CN102619688 A 20120801	CN20121114450 20120418	CSIC CHONGQING HAIZHUANG WINDPOWER EQUIPMENT CO LTD	F03D7/00	Wind turbine generator system brake control device and wind turbine generator system brake control method
CA2768357 A1 20120818	CN20111040901 20110218	SINOVEL WIND GROUP CO LTD [CN]	G01M99/00; F03D11/00	WIND TURBINE GENERATOR SYSTEM FAULT PROCESSING METHOD AND SYSTEM
CN202431440U U 20120912	CN20112567103U 20111230	SINOVEL WIND GROUP CO LTD [CN]	F03D7/00	Wind turbine generator system safety protector
CN202431451U U 20120912	CN20112237336U 20110624	JIANGSU JINFENG WIND POWER EQUIPMENT MFG CO LTD	F03D11/00; F16F15/02; F16F15/023; F16F15/04	Wind turbine generator system wheel hub and wind turbine generator system thereof

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DE102011016064 A1 20121011	DE20111016064 20110405	FISCHER DIETMAR [DE]	F03D9/00	Wind turbine has pylons that are mounted vertically, and high voltage mast with rotor that is provided for generating energy propagated via existing transmission lines
WO2012159599 A1 20121129	DE201110103311 20110526	AERODYN ENG GMBH [DE]; SIEGFRIEDSEN SOENKE [DE]	F03D11/00	WIND TURBINE HAVING A CLOSED COOLING CIRCUIT
EP2529053 A2 20121205	DE20101055873 20101224; WO2011DE02112 20111213	AERODYN ENG GMBH [DE]	E02B17/00; E01F3/00; F03D1/00; F03D7/02	WIND TURBINE HAVING A HELICOPTER LANDING PAD
CN102639870 A 20120815	WO2010DE01381 20101130; DE200910056245 20091201	AERODYN ENG GMBH [DE]	F03D11/04; F03D1/00	Wind turbine having a lifting device
EP2486268 A1 20120815	FR20090056998 20091007; WO2010FR52104 20101006	OKWIND [FR]	F03D3/02; F03D3/04; F03D3/06	WIND TURBINE HAVING AN INNER BAFFLE
US2012243996 A1 20120927	US201213490845 20120607; US201213362455 20120131; US201113114272 20110524; US20100910580 20101022; US20100323500P 20100413	SEVEN INTERNAT GROUP INC [US]	F03D3/06; F03D11/00	Wind Turbine Having Blades with Medial and Lateral Openings

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WO2012107049 A1 20120816	DK20110070087 20110215; US201161440051P 20110207	VESTAS WIND SYS AS [DK]; ABOLFAZLIAN MAZYAR [DK]; MOGENSEN MORTEN [DK]	F03D1/00; F03D11/00; F03D11/04	WIND TURBINE HAVING HELIPLATFORM ARRANGEMENT AND METHOD OF USING SAME
US2012228880 A1 20120913	ES20090002200 20091120; WO2010ES00467 20101118	GAMESA INNOVATION & TECH SL [ES]	F03D9/00	WIND TURBINE HAVING INTERNAL TRANSPORTATION DEVICES SPECIFICATION IDENTIFICATION
NZ589420 A 20121026	IT2009MI02060 20091123	WILIC S AR L [LU]	F03D11/00; F03D9/00; F03D11/04; H02K7/18	Wind turbine having multiple axially aligned generators with a deformable transmission inbetween which reduces stress on the shaft
FR2974860 A1 20121109	FR20110001346 20110502	VILLEMIN FRANCOIS MARIE CHRISTIAN [FR]	F03D3/06	Wind turbine i.e. vertical axis wind turbine, for production of electricity, has blade including front profile that is movable or partly movable so as to direct flow of air toward upper surface of rear profile located over rear of blade
JP2012177322 A 20120913	JP20110040096 20110225	MAEDA HIROSHI	F03D3/04; F03D3/06; F03D9/00	WIND TURBINE IMPELLER ASSEMBLING SYSTEM FOR WIND POWER GENERATION
CN202417823U U 20120905	CN20122064849U 20120216	HAIFENG YANG	F03D7/00; F03D11/00; G08C17/02	Wind turbine monitoring system
GB2490908 A 20121121	GB20110008223 20110517	HILF WERNER [DE]; PFAFFINGER MANFRED [DE]; VERCAMER ROBERT C [DE]	F03D9/00; F03G7/10	Wind turbine motored in no wind conditions to maintain electrical output
CA2776649 A1 20121118	EP20110166598 20110518	ZF WIND POWER ANTWERPEN NV [BE]	F03D11/00; F03D1/00; F16H57/025	WIND TURBINE NACELLE
CN102644557 A 20120822	JP20110034080 20110221	HITACHI IND EQUIPMENT SYS	F03D11/00; H01F27/08	Wind turbine power generating facilities
EP2481916 A1 20120801	EP20110000595 20110126	CHAPDRIVE AS [NO]	F03D7/02; F03D7/04	Wind turbine power production system with hydraulic transmission

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CA2770806 A1 20120910	IT2011MI00378 20110310	WILIC S AR L [LU]	H02K1/06; F03D11/00; H02K1/18; H02K1/28	WIND TURBINE ROTARY ELECTRIC MACHINE
CA2770667 A1 20120910	IT2011MI00377 20110310	WILIC S AR L [LU]	H02K1/32; F03D1/00; H02K1/27	WIND TURBINE ROTARY ELECTRIC MACHINE
AU2011237561 A1 20121101	GB20100005917 20100409; GB20100005942 20100409; WO2011EP55554 20110408	SWAY TURBINE AS [NO]	F03D1/06; F03D9/00; F03D11/00; F03D11/02	Wind turbine rotor and wind turbine
CN102628421 A 20120808	GB20110002104 20110207; US201161440055P 20110207	VESTAS WIND SYS AS [DK]	F03D1/00	Wind turbine rotor and wind turbine rotor maintenance method
CN102588204 A 20120718	US20100968739 20101215	GEN ELECTRIC [US]	F03D1/06	Wind turbine rotor blade
AU2011226066 A1 20120920	DE201010002720 20100310; WO2011EP53563 20110309	WOBBEN PROPERTIES GMBH [DE]	F03D1/06	Wind turbine rotor blade
US2012301310 A1 20121129	US201213544385 20120709; US20090456363 20090616	BLANTON JEFFREY TODD [US]; PRESTON LARRY DUANE [US]	F03D1/06	Wind Turbine Rotor Blade and Airfoil Section
WO2012163918 A1 20121206	DE201110076937 20110603	WOBBEN PROPERTIES GMBH [DE]; HOFFMANN ALEXANDER [DE]	F03D1/00	WIND TURBINE ROTOR BLADE AND METHOD FOR INSTALLING A WIND TURBINE ROTOR BLADE
CN102762850 A 20121031	WO2011US21372 20110114; US20100295006P 20100114	NEPTCO INC	F03D3/06; B29B11/16; B29C70/20; B29C70/54; F03D11/00	Wind turbine rotor blade components and methods of making same

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CA2764921 A1 20120724	EP20110151803 20110124	SIEMENS AG [DE]	F03D1/06; F01D5/14; F03D3/06	WIND TURBINE ROTOR BLADE ELEMENT AND WIND TURBINE ROTOR BLADE
WO2012122262 A2 20120913	US201161449900P 20110307	MCPHERSON PERFORMANCE BLADE LLC [US]; MCPHERSON JOHN BRUCE [US]; QUACKENBUSH TODD R [US]	F03D1/06	WIND TURBINE ROTOR BLADE WITH IMPROVED PERFORMANCE
CN102536631 A 20120704	US20100961813 20101207	GEN ELECTRIC [US]	F03D1/06; F03D3/06; F03D7/04; F03D7/06	Wind turbine rotor blade with porous window and controllable cover member
DK201270255 A 20121118	US201113109358 20110517	GEN ELECTRIC [US]	F03D1/06; B29C70/68	Wind turbine rotor blade with precured fiber rods and method for producing the same
CN102705154 A 20121003	US20100961792 20101207	GEN ELECTRIC [US]	F03D1/06; F03D3/06; F03D7/04; F03D7/06	Wind turbine rotor blade with variably actuatable porous window
US2012269641 A1 20121025	US201213453747 20120423; US201161517629P 20110422	CHESSICK ANTHONY [US]	F03D11/00; F03D1/06	Wind Turbine Rotor Blades Sharing Blade Roots for Advantageous Blades and Hubs
CN102562434 A 20120711	US20100957693 20101201	GEN ELECTRIC [US]	F03D1/06; H02H9/04	Wind turbine rotor blades with enhanced lightning protection system
DK201170526 A 20120921	DK20110070526 20110923	VESTAS WIND SYS AS [DK]	F03D1/00; B66F11/04	Wind turbine rotor service platform
WO2012119603 A2 20120913	US201161450151P 20110308; US201161532595P 20110909	VESTAS WIND SYS AS [DK]; MARKUSSEN ERIK [DK]	F03D11/00	WIND TURBINE ROTOR SHAFT SUPPORT STRUCTURE
CN202360298U U 20120801	CN20112337598U 20110909	GUANGDONG MINGYANG WIND POWER INDUSTRY GROUP CO LTD	F03D7/00	Wind turbine set pitch encoder

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EP2516847 A1 20121031	FR20090059278 20091221; WO2010FR52720 20101214	LECANU PIERRE [FR]; QUEMERE ERIC [FR]	F03D3/04; F03D1/04; F03D11/00	WIND TURBINE SET UP ON THE LAST FLOOR OF A RESIDENCE, IN PARTICULAR IN AN URBAN AREA
US2012261925 A1 20121018	US201213485227 20120531; US201213431206 20120327; US20070845094 20070827; US20060871135P 20061221	MERLINI III NICHOLAS C [US]; CIRONI MARK L [US]	F03D9/00; F03D11/00	WIND TURBINE SHROUD AND WIND TURBINE SYSTEM USING THE SHROUD
EP2483555 A2 20120808	DK20090070128 20090928; WO2010DK50245 20100924; US20090246537P 20090929	VESTAS WIND SYS AS [DK]	F03D7/02	WIND TURBINE STAND STILL LOAD REDUCTION
CN102758727 A 20121031	CN20121241352 20120711	GUODIAN UNITED POWER TECH CO [CN]	F03D7/00; G01M15/05	Wind turbine state monitoring and error diagnosis system and method integrated into control system
FR2972584 A1 20120914	FR20110000698 20110309	MORNING [FR]	H04B1/18; F03D11/00; G08C17/02; H05B37/02; H05B43/00	Wind turbine structure signalling device for use in wind turbine in wind farm, has receiver coupled with sensor such that receiver does not control lighting unit when detected luminosity values are lower than given threshold
US2012326447 A1 20121227	GB20100002646 20100217; WO2011GB00293 20110303; GB20090021774 20091212	RODWAY GILES HENRY [GB]	F03D9/00	Wind Turbine System

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KR20120103380 A 20120919	KR20110021891 20110311	SAMSUNG HEAVY IND [KR]	F03D1/00; F03D1/04; F03D1/06; F03D11/00	WIND TURBINE SYSTEM
WO2012156352 A1 20121122	DE201110050462 20110518	WERNER NOPHUT GMBH DIPL ING [DE]; NOPHUT WERNER [DE]	F03D1/00; F03D11/04	WIND TURBINE SYSTEM
AU2011216996 A1 20120927	WO2011GB00293 20110303; GB20100002646 20100217	RODWAY GILES	F03D9/00; F03D3/02; F03D11/04	Wind turbine system
US2012201679 A1 20120809	US201213454378 20120424; US20100858688 20100818	HEIDENREICH DAVID C [US]; COLE JR RICHARD E [US]	F03D11/00	WIND TURBINE TORQUE LIMITING CLUTCH SYSTEM
EP2522853 A2 20121114	US201113106007 20110512	GEN ELECTRIC [US]	F03D7/02	Wind turbine torque-speed control
WO2012130292 A1 20121004	WO2011EP54847 20110329	AMSC WINDTEC GMBH [AT]; KRAUSE MARKUS [AT]	F03D11/04; F03D11/00	WIND TURBINE TOWER AND METHOD OF FABRICATING A WIND TURBINE TOWER
CN102562490 A 20120711	US20100962381 20101207	GEN ELECTRIC [US]	F03D11/04	Wind turbine tower assembly and method for assembling the same
EP2525021 A1 20121121	EP20110382151 20110516	ALSTOM WIND S L U [ES]	E04H12/08; E02D27/42; F03D11/04	Wind turbine tower supporting structure
KR101179277B B1 20120903	KR20110140703 20111223	KOREA AEROSPACE RES INST [KR]	F03D1/00; F03D11/00; F03D11/02	WIND TURBINE WHICH HAVE NACELLE FENCE
CN202560462U U 20121128	CN20122131648U 20120331	FUSHENG ZHAO	F03D7/00	Wind turbine whole-course wind-pressure variable propeller pitch apparatus

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CA2764608 A1 20120724	EP20110151849 20110124	SIEMENS AG [DE]	F03D11/00; F16D65/18	WIND TURBINE WITH A BRAKING DEVICE AND METHOD FOR BRAKING AT LEAST ONE DRIVE TRAIN COMPONENT OF A DRIVE TRAIN, AND USE OF A BRAKING DEVICE FOR BRAKING AT LEAST ONE DRIVE TRAIN COMPONENT OF A DRIVE TRAIN OF A WIND TURBINE
EP2505825 A2 20121003	ES20110000358 20110329	GAMESA INNOVATION & TECH SL [ES]	F03D1/06	Wind turbine with a broadband damping device in each blade
EP2508751 A1 20121010	EP20110461511 20110408	PISKORZ WALDEMAR [PL]	F03D3/04; F03D3/06	Wind turbine with a cylindrical rotor
CN102668363 A 20120912	WO2010US57186 20101118; US20090264931P 20091130	BARBER GERALD L	H02P9/04; F03D9/00	Wind turbine with adjustable electrical generator
CA2771729 A1 20120921	EP20110158994 20110321	SIEMENS AG [DE]	F03D11/00; F16N31/00	WIND TURBINE WITH AN AUTOMATIC LIQUID LUBRICANT CHANGING ARRANGEMENT
KR20120101891 A 20120917	KR20110019989 20110307	DAEWOO SHIPBUILDING & MARINE [KR]	F03D11/00; F03D11/04	WIND TURBINE WITH AUXILIARY STRUCTURE
US2012263601 A1 20121018	US201213488615 20120605; US20090464447 20090512; US20080122584 20080516	FRONTIER WIND LLC [US]	F03D1/06	Wind Turbine With Deployable Air Deflectors
EP2511523 A1 20121017	EP20110003034 20110411	BAUMER INNOTEC AG [CH]	F03D11/00	Wind turbine with device for measuring the distance between the rotor blade and tower and method for measuring distance thereof
WO2012125128 A1 20120920	UA20110002851 20110311	IVANURA OREST BOGDANOVYCH [UA]	F03D1/04; F03D7/02	WIND TURBINE WITH FLEXIBLE COWLING

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CN102536660 A 20120704	DK20100070508 20101126; US20100417338P 20101126	VESTAS WIND SYS AS [DK]	F03D7/04	Wind turbine with hydraulic blade pitch system
CN202451363U U 20120926	DK20100070511 20101126; US20100417340P 20101126	VESTAS WIND SYS AS [DK]	F03D7/02; F15B1/02	Wind turbine with hydraulic blade variable pitch systems
CA2779874 A1 20120823	US201113158710 20110613	WIND SMART INC [CA]	F03D11/02; F16H61/38	WIND TURBINE WITH HYDROSTATIC TRANSMISSION
CN102650266 A 20120829	CN20121027134 20120208	NANJING WIND POWER TECHNOLOGY CO LTD	F03D9/00; G01R31/12	Wind turbine with insulation detecting function
KR20120114981 A 20121017	KR20110032858 20110408	DAEWOO SHIPBUILDING & MARINE [KR]	F03D11/00; B66B9/187	WIND TURBINE WITH MOVABLE MEANS
EP2529109 A1 20121205	CA20102690955 20100128; US20100282362P 20100128; WO2011CA00100 20110127	URWIND INC [CA]	F03D3/06; F03D11/04	WIND TURBINE WITH PRESTRESSABLE SUPPORTING ARMS
KR20120077989 A 20120710	KR20100140140 20101231	HYUN DAI HEAVY IND CO LTD [KR]	F03D11/00; F03D11/02	WIND TURBINE WITH PROTECTION SYSTEM FROM DUST OR FOREIGN SUBSTANCE
RO127765 A2 20120830	RO20110000176 20110224	BELKO GEORGE [RO]	F03D3/02	WIND TURBINE WITH RUBBER HINGES
CA2776020 A1 20121117	US201113109519 20110517	GEN ELECTRIC [US]	F03D11/04; E04H12/00; E04H12/20; E04H12/34; F16M7/00	WIND TURBINE WITH TOWER SUPPORT SYSTEM AND ASSOCIATED METHOD OF CONSTRUCTION
WO2012089806 A1 20120705	BE20100000755 20101231	DACUS WALTER [BE]; BAETENS JOAN [BE]	F03D3/04; F03D7/06	WIND TURBINE WITH VERTICAL AXIS

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NZ585816 A 20121130	HU20070000705 20071030; WO2008HU00128 20081030	VIKTOR GYORGYI	F03D3/06; F03D11/00	WIND TURBINE WITH VERTICAL AXIS AND WIND POWER PLANT
US2012306214 A1 20121206	US201213564510 20120801; US20070719978 20070622; WO2004DK00812 20041123	VESTAS WIND SYS AS [DK]	F03D9/00; E04H12/00	WIND TURBINE, A METHOD FOR ASSEMBLING AND HANDLING THE WIND TURBINE AND USES HEREOF
CN102536629 A 20120704	US20100972649 20101220	GEN ELECTRIC [US]	F03D1/00; F03D11/04	Wind turbine, aerodynamic assembly for use of wind turbine, and method for assembling thereof
PL394697 A1 20121105	PL20110394697 20110427	MALISZEWSKI MAREK [PL]	F03D3/06; F03D3/00	Wind turbine, especially for low-speed generator drive
EP2514963 A1 20121024	EP20110075070 20110420	JOOSTEN WILHELMUS HELENA HENDRIKUS [NL]	F03D3/04; F03D3/06	Wind turbine, its use and a vane for use in the turbine
EP2495433 A1 20120905	EP20110382054 20110302	ALSTOM WIND S L U [ES]	F03D1/00; F03D11/00; F16H57/02	Wind turbine, lifting tool and method for lifting a gearbox torque arm
CN102536671 A 20120704	EP20100195990 20101220	SIEMENS AG [DE]	F03D9/00; F03D11/00	Wind turbine, method of control of a wind turbine and air-conditioning system
EP2519741 A2 20121107	EP20110709101 20110311; EP20100157903 20100326; WO2011EP53664 20110311	SIEMENS AG [DE]	F03D11/00; F03D11/02	WIND TURBINE, TRANSPORT SYSTEM AND METHODS OF OPERATING, MAINTENANCE AND CONSTRUCTION OF A WIND TURBINE
KR101211581B B1 20121212	KR20120055141 20120524	R & D PROJECT CO LTD [KR]	F03D9/00; F03D3/00; F03D3/04	WIND TURBINES ARE INSTALLED ON THE ROADSIDE

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WO2012152291 A1 20121115	EG20110050740 20110511	ELGAMIL MOHAMED AHMED [EG]; KASSEM MAHMOUD ABDUL-WAHAB [EG]; ELHADIDI BASMAN MOHAMED [EG]; MAHFOUZ AHMED ALAA [EG]	F03D3/04	WIND TURBINES WHICH REVERSE AIR FLOW DISCHARGE DIRECTION
CN202300852U U 20120704	CN20112397132U 20111019	SHUJUN HAN	F03D9/00; A01G25/00; F03D1/06; F03D11/02	Wind water lifting irrigation system
CN202483797U U 20121010	CN20122056882U 20120221	YONG LIU	F03D9/00; F03B3/00; F03B13/22; F03D3/00; F03D11/00; H02K7/18	Wind wave power generation wheel
CN202417810U U 20120905	CN20122027845U 20120121	ZEYU LI	F03D1/06; F03D7/04	Wind wheel
EP2518312 A1 20121031	JP20090292461 20091224; JP20090292398 20091224; WO2010JP72213 20101210	MITSUBISHI HEAVY IND LTD [JP]	F03D11/00; F03D1/06	WIND WHEEL BLADE AND WIND-DRIVEN ELECTRICITY GENERATION DEVICE WITH SAME
CN102748243 A 20121024	CN20121244203 20120713	GUODIAN UNITED POWER TECH CO [CN]	F03D11/00	Wind wheel blade with antiicing and deicing functions
CN202441552U U 20120919	CN20122070064U 20120229	ZHEJIANG HUAYI WIND ENERGY DEV CO LTD	F03D11/00	Wind wheel cover
CN102635515 A 20120815	CN20121149388 20120515	NANJING WIND POWER TECHNOLOGY CO LTD	F03D11/00	Wind wheel locating device
CN202531364U U 20121114	CN20122164651U 20120418	CNR WIND TURBINE CO LTD	F03D11/00	Wind wheel lock automatic hole alignment system for maintenance of wind generator set hub
CN202510292U U 20121031	CN20112324487U 20110831	ZHEJIANG WINDEY WIND POWER CO LTD	F03D11/00	Wind wheel lock safety mechanism of wind generating set

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CN202300866U U 20120704	CN20112337617U 20110909	GUANGDONG MINGYANG WIND POWER INDUSTRY GROUP CO LTD	F03D11/00	Wind wheel locking device for wind driven generator set
CN202545135U U 20121121	CN20122165632U 20120418	CSIC CHONGQING SEA LOADING WINDPOWER EQUIPMENT CO LTD	F03D11/00	Wind wheel locking structure
CN202493385U U 20121017	CN20112546719U 20111223	GUANGDONG DONGXING FENGYING WIND POWER EQUIPMENT CO LTD	F03D11/00	Wind wheel of wind driven generator
CN202326040U U 20120711	CN20112463705U 20111118	GUANGDONG DONGXING FENGYING WIND POWER EQUIPMENT CO LTD	F03D11/00; H01R39/26; H01R39/64	Wind wheel of wind driven generator
CN102619695 A 20120801	CN20122090048U 20120312; CN20122089999U 20120312; CN20122090053U 20120312; CN20121108181 20120413	SHANDONG SIBATE ELECTRIC DRIVE TECHNOLOGY CO LTD	F03D9/00; F03D11/00	Wind wheel power generator
CN202451364U U 20120926	CN20122017186U 20120116	SANY ELECTRIC CO LTD	F03D7/04; F03D9/00	Wind wheel revolving speed and pitch angle control system and wind driven generator comprising same
HU1000677 A2 20120730	HU20100000677 20101220	GOECZEY ANDRAS [HU]	F03D3/04	WIND WHEEL RING WITH GUIDED VANE
CN102661240 A 20120912	CN20121153158 20120516	GUODIAN UNITED POWER TECH CO [CN]	F03D1/06; F03D11/00; H02G13/00	Wind wheel vane anti-lightning device for wind generating set and mounting method thereof
CN202348553U U 20120725	CN20112442896U 20111110	SHENZHEN EFFSUN WIND POWER CO LTD	F03D1/06	Wind wheel vane wing profile of horizontal axis wind turbine

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DE102011104801 A1 20121206	DE201110104801 20110606	SPOERHASE WERNER [DE]	F03D3/04	Wind wing i.e. rotor blade, for use in wind power plant, has larger drums fixed at rear side of wing to make use of wind-stream generated by rotation of wing and provided with drive vanes that are mechanically connected by sprocket wheel
CN202493380U U 20121017	CN20112564136U 20111230	ZHEJIANG TONGXING CONSTRUCTION CO LTD	F03D9/00; F03D1/06; F03D9/02; H01L31/042	Wind/solar hybrid generation device
CN202300830U U 20120704	CN20112405157U 20111023	UNIV HEHAI	F03D3/00; F03D3/06; F03D11/00; H01L31/042	Wind-blocking power generating device with wind-light complementation
CN102748229 A 20121024	CN20121232677 20120706	CHANGCHUN INST OF TECHNOLOGY	F03D9/00; F03D1/04	Wind-concentrating type novel wind power generation device
CN102635511 A 20120815	CN20121128825 20120428	SHUOJIN REN	F03D9/02	Wind-driven compressed air energy storage system
CN102770665 A 20121107	WO2010JP73577 20101227; JP20100125350 20100531; JP20100130372 20100607; JP20100135106 20100614	BIRUMEN KAGOSHIMA CO LTD [JP]	F03D11/02; F03D1/06; F03D9/00	Wind-driven electricity generation device
CN102767483 A 20121107	CN20121224682 20120629	FANG HUANG	F03D9/00; F03D7/04; F03D11/00; F03G6/04; F03G6/06	Wind-driven generator
CN102797645 A 20121128	CN20121323340 20120904	UNIV HOHAI CHANGZHOU	F03D11/00	Wind-driven generator blade with keel structure
CN202300836U U 20120704	CN20112289706U 20110810	HEFEI LISTEN NEW ENERGY TECHNOLOGY CO LTD; ZHENG GONG; SHENGMING CHEN	F03D7/00	Wind-driven generator capable of realizing low-voltage charging maximum power point tracking and converting wind energy based on BOOST

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CN202442256U U 20120919	CN20122072114U 20120301	BO LIU	F21S9/04; F03D9/00	Wind-driven generator light tower
CN202381251U U 20120815	CN20112555724U 20111225	HUANGSHI VOCATIONAL TECHNICAL COLLEGE	F03D1/00; F03D1/06; F03D7/04	Wind-driven generator with adjusting device
CN102797637 A 20121128	CN20121322568 20120904	BAICHAO YU	F03D9/00; H02J3/38; H02P9/48	Wind-driven generator with micro-power consumption
CN202350294U U 20120725	CN20112512504U 20111212	LUOYANG FENGRE MACHINERY CO LTD	F24H1/18; F03D9/00; F24H9/18	Wind-driven horizontally-rotating magnet-friction heating water heater
TW201226698 A 20120701	TW20100147312 20101231	CHEN HUNG-CHI [TW]	F03D3/00	Wind-driven power device
RU2459976 C1 20120827	RU20110134096 20110816	VIGAEV VALERIJ PETROVICH [RU]; MIKHOV ALEKSANDR PETROVICH [RU]	F03D3/06; F03D9/00	WIND-DRIVEN POWER GENERATOR
RU2461732 C1 20120920	RU20110111894 20110329	FEDERAL NOE G AVTONOMNOE OBRAZOVATEL NOE UCHREZHDENIE VYSSHEGO PROFESSIONAL NOGO OBRAZOVANIJA DAL NE [RU]	F03D3/06	WIND-DRIVEN POWER PLANT
RU2463474 C1 20121010	RU20110109371 20110311	G OBRAZOVATEL NOE UCHREZHDENIE VYSSHEGO PROFESSIONAL NOGO OBRAZOVANIJA VORON G ARKHITEKTURNO STR NYJ [RU]	F03D1/02	WIND-DRIVEN POWER PLANT
CN102536645 A 20120704	CN20121067218 20120314	XIAOHU XUE	F03D5/04; F03D9/00; F03D11/00; F03D11/02	Wind-driven propulsion device
CN102737565 A 20121017	CN20121227664 20120625	HONGQUAN LIU	G09F21/00; F03D3/06; F03D9/02; G09F7/22	Wind-driven rotary outdoor advertising board

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RU2455524 C1 20120710	RU20110109490 20110314	SHPADI ANDREJ LEONIDOVICH [RU]	F03D9/00; F24J3/00	WIND-DRIVEN THERMAL HYDRAULIC PLANT
RU2461733 C1 20120920	RU20110122342 20110601	VNIIG IM B E VEDENEEVA AOOT [RU]	F03D5/00	WIND-DRIVEN UNIT
CN102583447 A 20120718	CN20121065205 20120314	SHOUYU ZHAO; XIANGHUA SHANG	C01D3/06; F03D9/00	Wind-driven water pumping evaporation vehicle
CN102705134 A 20121003	CN20121190344 20120611	UNIV SHAOXING	F03B3/12; F03D11/00	Wind-driven/sea-wave-driven impeller
DE102011008029 A1 20120705	DE201110008029 20110105	NORDEX ENERGY GMBH [DE]	F03D11/04	Windenergieanlage
DE202012009791U U1 20121126	DE201220009791U 20121015	PLOEHN HARRY [DE]	F03D1/06; F03D3/06	Windenergieanlage mit bestimmten geometrischen, ovalen Halbkugeln und spezieller Oberflõche der ovalen Halbkugeln
DE102011017801 A1 20121031	DE201110017801 20110429	WOBBEN ALOYS [DE]	F03D11/00; F03D11/04	Windenergieanlage mit einer Mehrzahl von Verschiebeeinheiten zur Montage oder Demontage von Rotorblättern und Verfahren hierzu
DE102011017327 A1 20121018	DE201110017327 20110417	AHLRICHS EWALD [DE]	F03D1/06	Windenergieanlage mit Haubenblattrotor
DE102011013674 B3 20120726	DE201110013674 20110311	NORDEX ENERGY GMBH [DE]	F03D11/00; F03D7/00	Windenergieanlage sowie Verfahren zum Beheizen einer Komponente in einer Windenergieanlage
DE102011006670 A1 20121004	DE201110006670 20110401	WOBBEN ALOYS [DE]	F03D7/00	Windenergieanlage und Verfahren zum Betreiben einer Windenergieanlage
DE102011105228 B3 20120920	DE201110105228 20110610	NORDEX ENERGY GMBH [DE]	F03D11/00	Windenergieanlagenbauteil mit einer in ein Laminat eingebetteten elektrischen Leitung
DE202012005576U U1 20120822	DE201220005576U 20120530	SINZ HELMUT HERMANN [DE]	F03D9/00	Wind-Energie-Automobil
DE202012006871U U1 20121206	DE20122006871U 20120714	KUTLU TACI AYDIN [DE]	F03D1/06	Windgeneratoren
CN102606409 A 20120725	CN20121096486 20120405	UNIV LANZHOU TECH	F03D9/00; F03D7/02	Wind-heating system and heat control method thereof

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US2012257971 A1 20121011	US201113020383 20110411	SCHMUTZER SCOTT [US]	F03D1/06	WindJet TM Turbine Ring
AT511478 A4 20121215	AT20110001431 20111004	PENZ ALOIS [AT]	F03D1/04; F03D1/02	WINDKRAFTANLAGE
DE202011104112U U1 20121123	DE201120104112U 20110805	MITTELSTAEDT FRIEDRICH [DE]	F03D3/06; F03D1/02; F03D1/06; F03D3/02	Windkraftanlage
DE202012101807U U1 20120704	DE201220101807U 20120516	HEHENBERGER GERALD [AT]	F03D11/04; F03D11/00	Windkraftanlage
AT510962 A4 20120815	AT20110000592 20110428	PENZ ALOIS [AT]	F03D11/04; F03D1/02; F03D1/04	WINDKRAFTANLAGE
AT510956 A4 20120815	AT20110000593 20110428	PENZ ALOIS [AT]	F03D3/04; F03G6/04	WINDKRAFTANLAGE
DE102011017373 A1 20121018	DE201110017373 20110416	VOGEL WERNER [DE]	F03D9/00	Windkraftanlage
DE102012103327 A1 20121031	US201113094237 20110426	GEN ELECTRIC [US]	F03D1/04; F03D1/06	Windkraftanlage mit Hilfsflossen
DE102011101443 A1 20121115	DE201110101443 20110512	WINDNOVATION ENGINEERING SOLUTIONS GMBH [DE]	F03D1/06	Windkraftanlage mit verstellbaren Rotorblõttern
DE202011109775U U1 20120710	DE201120109775U 20111223	ELLERBECK GERHARD [DE]	F03D3/06; F03D3/00	Windkraftgewerk
AT511374 A1 20121115	AT20110000629 20110505	BAUER EMIL [AT]	F03D3/04	WINDKRAFTMASCHINE MIT SENKRECHTER DREHACHSE
CN202309198U U 20120704	CN20112437872U 20111108	WUXI ANYDA NEW ENERGY TECHNOLOGY CO LTD	H02J9/00; F03D9/00; H02N6/00	Wind-light complementary energy-saving multifunctional service center device
CN202466469U U 20121003	CN20122055054U 20120218	CAI JINHONG	E01F15/02; E01F9/016; E01F9/03; E01F15/08; F03D9/00; H02N6/00	Wind-light complementary power generating guideboard guardrail
CN202417816U U 20120905	CN20122034168U 20120118	JIANGXI RED EAGLE ENERGY CO LTD	F03D3/06; F03D9/00; H02N6/00	Wind-light complementation generating set

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DE19580147 B3 20121129	DK19940000055 19940112; WO1995DK00017 19950111	LM GLASFIBER AS [DK]	F03D1/06; F01D5/14; F03D3/06; F03D11/00	Windm³hle
PL2082131T T3 20120731	DE200720003842U 20070315		F03D1/00	MAST FOR A WIND TURBINE
US2012292913 A1 20121122	US201113111466 20110519	TURCK JEFFREY W [US]	F03D9/00	Windmill
WO2012153717 A1 20121115	JP20110105629 20110510	MITSUBISHI HEAVY IND LTD [JP]; NAGA TAKEHIRO [JP]; TSUMURA YOICHIRO [JP]; MATSUSHITA TAKATOSHI [JP]	F03D11/00	WINDMILL
CN202348560U U 20120725	CN20112364464U 20110926	RUISHENG LI	F03D3/04; F03D3/06	Windmill
CN202381252U U 20120815	CN20112375015U 20110928	SHICOH MOTOR SHANGHAI CO LTD	F03D1/04; F03D9/00	Windmill device and wind power generation device
CN202370743U U 20120808	CN20112377346U 20110928	SHICOH MOTOR SHANGHAI CO LTD	F03D1/02; F03D1/06; F03D7/02; F03D9/00	Windmill device with luminous function and wind power generator with luminous function
WO2012150622 A1 20121108	WO2011JP60498 20110502	E & E CO LTD [JP]; MOCHIZUKI NOBORU [JP]; HIRATA HIROMASA [JP]	F03D1/06; F03D1/04	WINDMILL FOR HORIZONTAL AXIS WIND POWER GENERATOR
EP2518314 A1 20121031	JP20090296152 20091225; WO2010JP73370 20101224	MITSUBISHI HEAVY IND LTD [JP]	F03D11/00; F03D1/06	WINDMILL ROTARY VANE
EP2518313 A1 20121031	JP20090296159 20091225; WO2010JP73347 20101224	MITSUBISHI HEAVY IND LTD [JP]	F03D11/00; F03D1/06	WINDMILL ROTARY VANE AND WIND POWER GENERATING WINDMILL

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WO2012144879 A1 20121026	WO2011KZ00007 20110422	BUKTUKOV NIKOLAY [KZ]; BUKTUKOV BEISEN [KZ]; MOLDABAEVA GULNAZ [KZ]; ZHAKYP AITMUKHAMED [KZ]	F03D3/06; F03D3/04; F03D7/06	WIND-OPERATED POWER PLANT
CN202510680U U 20121031	CN2012249268U 20120215	SANY ELECTRIC CO LTD	F16H57/023; F03D11/02; F16H57/021; F16H57/08	Wind-power acceleration gearbox and mounting structure of hollow shaft thereof
CN102748239 A 20121024	CN20121263681 20120728	QINGHAI LIU	F03D9/02	Wind-power air pressure storing generating equipment
CN202304062U U 20120704	CN20112381209U 20111009	YUGUI SU	F25B15/00; F03D9/00	Wind-power drive absorption refrigeration system
CN102748238 A 20121024	CN20121259217 20120725	UNIV SHENYANG TECHNOLOGY	F03D9/02; H02J3/18; H02J3/32; H02J9/06	Wind-power energy conversion system with redundant energy storage, and application mode and control method thereof
CN202560475U U 20121128	CN20122198007U 20120506	ZHENZHI DAI	F03D9/00; F03D3/00; F03D11/04	Wind-power generation device
US2012213635 A1 20120823	TW20110105746 20110222	LIN TSO-TUNG [TW]	F03D11/02	WIND-POWER GENERATION DEVICE
CN202440551U U 20120919	CN20122018529U 20120116	SINOVEL WIND GROUP CO LTD [CN]	C25B1/04; F03D9/00	Wind-power generation seawater electrolyzing system
CN102758731 A 20121031	CN20111109726 20110429	ZEYU LI	F03D9/00; F03D1/06; F03D11/00	Wind-power generation unit
CN202391647U U 20120822	CN20112172828U 20110527	ZEYU LI	F03D1/02; F03D1/06; F03D11/04	Wind-power generator
CN102635334 A 20120815	CN20121079990 20120315	ZHENG GAI	E21B43/00; F03D9/02	Wind-power hydraulic oil pumping machine

Número do Documento	Prioridade	Depositante	Classificação Internacional	Título
DE102011008061 A1 20120712	DE201110008061 20110107	FEV GMBH [DE]	F03D11/00; F03D11/04; H02K7/18; H02P9/02	Wind-power plant i.e. off-shore-system, for power generation, has generator with low power causing rotation speed reduction for another generator with high power, where generators are coupled with each other and commonly driven
CN102777325 A 20121114	CN20111127979 20110510	QINGYUAN HUANG	F03D9/00; F03D3/00; F03D3/04	Wind-power turbine generator set and ship using same
EP2504576 A1 20121003	SE20090050903 20091127; WO2010SE51280 20101119	VERTICAL WIND AB [SE]	F03D11/02; F03D3/00	WIND-POWER UNIT WITH A VERTICAL SHAFT
AU2011211633 A1 20120830	JP20100025380 20100208; WO2011JP52490 20110207	MITSUBISHI HEAVY IND LTD [JP]	F03D11/00; F03D11/04	Wind-powered electrical generator
EP2535574 A1 20121219	WO2010JP51831 20100208	MITSUBISHI HEAVY IND LTD [JP]	F03D7/04	WIND-POWERED ELECTRICAL GENERATOR AND BLADE PITCH CONTROL METHOD THEREFOR
WO2012114891 A1 20120830	JP20110040368 20110225	MITSUBISHI HEAVY IND LTD [JP]; SATO SHINSUKE [JP]; HIRAI SHIGETO [JP]; NAKAMURA TAISUKE [JP]; MATSUO TAKESHI [JP]; GOTOU CHUUHACHI [JP]; OKANO YASUSHI [JP]	F03D11/00	WIND-POWERED ELECTRICITY GENERATING DEVICE
CN202300889U U 20120704	CN20112251541U 20110718	TANGSHAN MODERN INDUSTRY CONTROL TECHNOLOGY CO LTD	F04B17/02; F03D9/00	Wind-powered water lift
CN102635480 A 20120815	CN20111036840 20110212	QIXIANG WANG	F03B1/00; F03D9/00	Wind-power-water-power combined generating device

Número do Documento	Prioridade	Depositante	Classificação Internacional	Título
AT511315 A1 20121015	AT20110000441 20110329	HAENFLING MANFRED [AT]	F03D3/06; F03D3/04	WINDRAD ,,WIND-KOMPRESSIONS TURBINE''
WO2012088622 A1 20120705	WO2010CN02169 20101227	LIANG JIKAI [CN]	F03D9/00; F03D1/00; H02N6/00	WIND-SOLAR COMBINED GENERATING SET
CN202364158U U 20120801	CN20112455287U 20111116	YANGJIANG LIJOE IND CO LTD	H02N6/00; F03D9/00	Wind-solar complementary power supply system
CN202455120U U 20120926	CN20122070144U 20120229	XINJIANG GARSON SOLAR & WIND POWER TECHNOLOGY CO LTD	H02J7/00; F03D9/00; H02N6/00	Wind-solar energy supplementary power generating device
CN102723897 A 20121010	CN20121219372 20120629	SHANGHAI INST TECHNOLOGY	H02N6/00; F03D9/00	Wind-solar hybrid power generation device
CN202432714U U 20120912	CN20112537641U 20111220	ZHIYU LI	F24J2/00; F03D9/00; F24J2/05; F24J2/32; F24J2/46	Wind-solar hybrid water heater
EP2492499 A1 20120829	ES20090002030 20091023; WO2010ES70672 20101020	GAMESA INNOVATION & TECH SL [ES]	F03D7/02; F03D7/04	WIND-TURBINE CONTROL METHODS FOR IMPROVING POWER PRODUCTION
CH704351 B1 20120713	CH20110000925 20110530	WEPFER HANS [CH]	F03D1/02	Windturbinenanlage.
DE102011053712 A1 20120823	US20100884565 20100917	GEN ELECTRIC [US]	F03D1/06	WINDTURBINENROTORBLATT MIT BETÄTIGBAREN PROFILPASSAGEN
EP2535564 A1 20121219	CN201019114068 20100208; WO2010CN00957 20100628	NAT WIND ENERGY CO LTD [CN]	F03D3/06; F03D1/06	WIND-WHEEL BLADE FOR VERTICAL AXIS WIND POWER GENERATOR AXIS
CN202300868U U 20120704	CN20112352841U 20110920	CONGGUI LUO	F03D11/00; B61B12/00; B64C27/32; B64D27/02; F03B3/14; F03B13/00; F03D9/00	Wing ring, wing ring mechanism, vertical take off and landing aircraft, opposite-pull aircraft and wind power generation mechanism

Número do Documento	Prioridade	Depositante	Classificação Internacional	Título
PL394621 A1 20120827	PL20110394621 20110226	WOLNOWSKI IRENEUSZ TIW EKSPORT IMP FA [PL]	F03D3/06; F03D3/00; F03D11/02	Wing with moving ailerons for a vertical axis wind turbine
SI23684 A 20120928	SI20110000090 20110318	DERSTVENSEK ANDREJ [SI]	F03D9/00	WING WITH REINFORC D COLLARS
CA2770711 A1 20120908	EP20110157315 20110308	SIEMENS AG [DE]	F03D1/06	WINGLET FOR A BLADE OF A WIND TURBINE
DK201270217 A 20121031	IN2011DE01273 20110430	GEN ELECTRIC [US]	F03D1/06; F03D7/02	WINGLET FOR A WIND TURBINE ROTOR BLADE
CN202402215U U 20120829	CN20112521817U 20111214	HANQING CHENG; MA ZHICHAO	F03D9/00; F03D1/02; F03D11/00	Wire drawing wind wheel frame horizontal shaft multi-wind-wheel high-speed wind driven generator
US2012243518 A1 20120927	US201113053648 20110322	VESTAS WIND SYS AS [DK]	H04W4/00; F03D9/00; H04W84/12	WIRELESS INTERNET-PROTOCOL PHONES FOR WIND POWER PLANT SERVICE
DE202011110141U U1 20121219	DE201120110141U 20110119	IMO HOLDING GMBH [DE]	F03D11/04; F16C19/00; F16C19/34; F16C23/06	Wõlzlager mit wenigstens einem elastisch kompressiblem und/ oder verstellbarem Element
TR201112625 A2 20121221	TR20110012625 20111220	OEZKAN SERKAN [TR]; HELVACI MUSTAFA [TR]; OEZKAN ESRA [TR]	F03D1/00	Yatlar Için Düsey Eksen Rüzgar Türbini, Basinçli Hava ile Depolama ve Sürüs Sistemleri
CN202468790U U 20121003	CN20122056396U 20120221	SHANXI JIANGHUAI HEAVY INDUSTRY CO LTD	F16D65/04; F03D7/00; F16D65/18	Yaw brake for wind power generator set
CN102797632 A 20121128	CN20121325488 20120905	JIE YANG	F03D7/00; F16D65/18	Yaw control and braking hydraulic system for wind-driven generator unit
EP2535570 A2 20121219	DE201110077613 20110616	AVAILON GMBH [DE]	F03D7/02	Yaw control for wind turbine
CN102635501 A 20120815	CN20121128122 20120427	CSIC CHONGQING HAIZHUANG WINDPOWER EQUIPMENT CO LTD	F03D7/00	Yaw control method, device and system for fans

Número do Documento	Prioridade	Depositante	Classificação Internacional	Título
CN102777319 A 20121114	CN20111122240 20110512	SUZHOU TITP WIND ENERGY TECHNOLOGY CO LTD	F03D7/00	Yaw control system for wind power generation and control method thereof
CN202560486U U 20121128	CN20122193089U 20120428	CSIC CHONGQING HAIZHUANG WINDPOWER EQUIPMENT CO LTD	F03D11/02; F03D7/00	Yaw drive mechanism of wind-driven generator
CN202402211U U 20120829	CN20112568360U 20111229	DALIAN HUARUI HEAVY INDUSTRY GROUP CO LTD; DALIAN HUARUI SPECIAL TRANSMISSION EQUIPMENT CO LTD	F03D7/00; F16H1/32	Yaw driver of wind generator set
CN202441539U U 20120919	CN20112532110U 20111219	XEMC WINDPOWER CO LTD	F03D7/00	Yaw hydraulic braking device of wind generating set
CN202468174U U 20121003	CN20112532107U 20111219	JIANGSU WENDE NEW ENERGY CO LTD	F03D11/00	Yaw mechanical locking device of wind generating set
CN102588217 A 20120718	CN20111008640 20110114	WAFANGDIAN MOS WRC BEARING MANUFACTURE CO LTD	F03D11/00; F03D7/00; F16H55/12; F16H55/17	Yaw system gear ring
CN202326009U U 20120711	CN20112463116U 20111118	GUANGDONG DONGXING FENGYING WIND POWER EQUIPMENT CO LTD	F03D7/00; F03D11/00	Yaw system of wind power generator set
CN102644561 A 20120822	CN20121131166 20120428	CSIC CHONGQING HAIZHUANG WINDPOWER EQUIPMENT CO LTD	F03D11/02; F03D7/00	Yaw transmission mechanism of wind driven generator
CN202531363U U 20121114	CN20122150774U 20120411	GUANGJIAN ZENG	F03D11/00	Yawing and cable twisting connection device of wind power generator set
CN202300841U U 20120704	CN20112444486U 20111111	JIANWU CHEN	F03D7/02; F16F15/08	Yawing device for fishing boat wind generator
TR201203573 A2 20120822	TR20120003573 20120329	CIFTCI MEHMET SAHIN [TR]	F03D11/00	Yüksek hava tutma kapasitesine sahip yatay rüzgar türbini kanadi

Número do Documento	Prioridade	Depositante	Classificação Internacional	Título
CN102536683 A 20120704	CN20121017510 20120119	UNIV TSINGHUA; JI ZENG	F03D11/00	Zonal guy cable device used for enhancing blade stability of large-scale wind driven generator

Anexo 1: Códigos dos Principais Países

Código	País	Código	País
AR	Argentina	IN	Índia
AT	Áustria	**IS**	Islândia
AU	Austrália	**IT**	Itália
BE	Bélgica	**JP**	Japão
BG	Bulgária	**KR**	República Da Coréia
BR	Brasil	**LU**	Luxemburgo
BS	Bahamas	**LV**	Letônia
CA	Canadá	**MA**	Marrocos
CH	Suíça	**MD**	Republica Moldova
CN	China	**MX**	México
CZ	República Tcheca	**NL**	Holanda
DE	Alemanha	**NO**	Noruega
DK	Dinamarca	**NZ**	Nova Zelândia
DZ	Argélia	OA	African Intellectual Property Organization (OAPI)[1]
EA	Organização de Patentes da Eurásia (EAPO)[1]	**PH**	Filipinas
EE	Estônia	**PL**	Polônia
EG	Egito	**PT**	Portugal
EP	Organização Européia de Patentes (EPO)[1]	**RO**	Romênia
ES	Espanha	**RU**	Federação Russa
FI	Finlândia	**SE**	Suécia
FR	França	**SG**	Singapura
GB	Reino Unido	**SI**	Eslovênia
GR	Grécia	**SK**	Eslováquia
HK	Região Administrativa Especial de Hong Kong Da República Popular da China	TR	Turquia
HR	Croácia	**TW**	Taiwan
HU	Hungria	**UA**	Ucrânia
ID	Indonésia	**US**	Estados Unidos
IE	Irlanda	WO	Organização Mundial de Propriedade Intelectual (WIPO)[2]
IL	Israel	**ZA**	África do Sul

Fonte: http://www.wipo.int/export/sites/www/scit/en/standards/pdf/030301.pdf, acesso: março 2008

[1] A OAPI é um organismo intergovernamental encarregado de emitir títulos de proteção dos direitos de propriedade industrial e de prestar serviços relacionados com a propriedade industrial para cada um dos Estados-membros. Aplica uma legislação uniforme que tem lugar de lei nacional para cada um dos Estados-Membros: o Acordo de Bangui. Estes títulos de proteção têm efeito automático em cada um dos seguintes Estados-membros: Benim, Burquina Faso, Camarões, África Central, Congo, Costa do Marfim, Gabão, Guiné, Guiné Bissau, Guiné Equatorial, Mali, Mauritânia, Nigéria, Senegal, Chade e Togo.

[2] O código "WO" é utilizado para a publicação internacional dos pedidos depositados via Tratado de Cooperação em Matéria de Patentes (PCT) em qualquer um dos países receptores destes pedidos.