

Pedidos de Patente sobre Energia Solar – Nº 4



Pedidos publicados no
2º semestre de 2010

Diretoria de Cooperação para o Desenvolvimento – DICOD
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Coordenação de Estudos e Programas – CEPRO
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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 registro 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 fonte formal de informação, por meio da qual pode-se ter acesso a detalhes técnicos de invenções que, em alguns casos, não são descritos em livros nem em artigos técnicos.

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, divulgar os títulos dos pedidos de patentes publicados mundialmente em determinado período permitindo, desta forma, a atualização periódica de seu público alvo.

Mais detalhes sobre cada pedido de patente tais como o resumo da invenção, o(s) nome(s) do(s) inventor(es) e a cópia do documento completo podem ser obtidos nas seguintes bases de patente disponíveis gratuitamente na Internet:

1. Base Brasileira de Pedidos de Patente¹: <http://www.inpi.gov.br>
2. Base do Escritório Europeu de Patentes²: <http://ep.espacenet.com>
3. Base do Escritório Americano de Patentes³: <http://uspto.gov>

Caso haja interesse em se conhecer o depósito de patente brasileiro correspondente (família do pedido de patente¹), para algum(ns) dos pedidos de patente estrangeiros listados na Tabela 2, sugere-se uma busca de família do mesmo. Neste caso, o Centro de Documentação do INPI – CEDIN informará os procedimentos a serem seguidos, por meio do endereço abaixo.

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e-mail: cedin@inpi.gov.br

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.

¹ Esta base contém somente pedidos de patente depositados e publicados no Brasil a partir de 1982.

² Contêm pedidos de patente depositados e publicados em mais de 70 países.

³ Contêm somente pedidos depositados e publicados nos Estados Unidos.

1.2 - Pedidos de patentes sobre Energia Solar

Embora ainda não tenha sido inventado um sistema de produção de energia que seja totalmente limpo, diversas soluções para a crescente demanda energética mundial tem sido desenvolvidas visando minimizar os impactos negativos sobre o meio ambiente, dentre tais soluções destacam-se aquelas baseadas em fontes inesgotáveis de energia, tal como a energia solar.

Atualmente a produção de energia solar em grande escala ainda não apresenta custo competitivo se comparado aos sistemas tradicionais de geração de energia, tais como os baseados em combustíveis fósseis e a geração hidrelétrica, embora já existam em operação sistemas de aquecimento solares de baixo custo, usados para aquecimento de água em residências.

Deve-se considerar também que a produção de energia solar sofre a influência de condições climáticas adversas tais como: nebulosidade, chuva e neve, além de ser interrompida a noite. Tais características determinam a implantação de meios de armazenamento da energia produzida nos períodos favoráveis, aumentando os custos envolvidos na operação.

A despeito de tais fatores restritivos, o uso da energia solar apresenta muitas vantagens, podendo-se citar o fato de que a mesma tem por base uma fonte energética praticamente inesgotável.

Além disso, os processos de produção de energia solar tem baixo impacto sobre o meio ambiente, pois não emitem resíduos durante a conversão e os equipamentos utilizados tem baixo índice de manutenção, além disso podem ser instalados em localidades remotas, tal como o interior do Brasil, evitando elevados gastos com extensas linhas de transmissão.

Para ser utilizada, a energia solar inicialmente é capturada e depois é convertida para outras formas de potência, tais como calor e energia elétrica.

Os principais processos de aproveitamento da energia gerada pelo sol atualmente empregados são: o processo heliotérmico, também chamado de fototérmico ou termossolar, e o processo fotovoltaico.

No processo heliotérmico a energia solar é absorvida pelos corpos sob a forma de calor, os coletores solares, os quais aquecem fluidos (líquidos ou gasosos) que podem ser usados diretamente (como no caso da água quente) ou mantidos em reservatórios termicamente isolados. Tais fluidos aquecidos podem também gerar gases para o acionamento de turbinas.

Já no processo fotovoltaico, após a captura da luz solar, esta é diretamente convertida em energia elétrica pelo chamado efeito fotovoltaico, no qual uma diferença de potencial é gerada nos extremos de estruturas, a partir da absorção da luz por materiais semicondutores, sendo sua unidade fundamental a chamada célula fotovoltaica.

É de grande relevância notar que o território brasileiro possui latitude equatorial e está localizado, em sua maior parte, na região inter-tropical, com alto nível de incidência solar durante o ano. Outro fator extremamente positivo reside no fato de que possuímos grandes reservas de silício solar, matéria prima dos painéis de captação, constituindo importante vantagem estratégica a nível mundial.

Assim, objetivando fornecer informações importantes sobre o estado da técnica relacionado às tecnologias de aproveitamento da energia solar, como suporte aos interessados em desenvolver tecnologia endógena, o INPI, através da Divisão 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 01/07/2010 a 31/12/2010. A metodologia para a coleta dos documentos levou em conta as áreas da Classificação Internacional de patentes, na qual foram selecionados os pedidos de

patente que contém pelo menos uma das classificações internacionais discriminadas⁴ a seguir:

F24J 2/00 - Utilização de calor solar, por ex., coletores de calor solar

F24J 2/02 - Coletores de calor solar com suporte para o artigo aquecido, por ex: estufas, fogões, fornos de cadinho, fornalhas ou fornos de cozer utilizando calor [4]

F24J 2/04 - Coletores de calor solar com o fluido de trabalho conduzido através do coletor.

F24J 2/05 - Envolto por um fechamento transparente, por ex., coletores solares a vácuo

F24J 2/06 - Com elementos de concentração (elementos ou sistemas óticos per se G 02 B)

F24J 2/07 - Coletores que trabalham a alta temperatura, por ex., centrais de energia solar

F24J 2/08 - Lentes

F24J 2/10 - Refletores

F24J 2/12 - Parabólicos

F24J 2/13 - Hemisféricos

F24J 2/14 - Semi-cilíndricos ou parabólico-cilíndricos

F24J 2/15 - Cônicos

F24J 2/16 - Com placas planas

F24J 2/18 - Espaçados, as superfícies refletoras opostas interagindo

F24J 2/20 - O fluido de trabalho sendo conduzido através das placas

F24J 2/22 - Com superfícies estendidas, por ex., protuberâncias, corrugações (2/28 tem prioridade)

F24J 2/23 - O fluido de trabalho circulando livremente pelos elementos do coletor

F24J 2/24 - O fluido de trabalho sendo conduzido através de condutos tubulares absorvedores de calor

⁴ Um documento de patente pode conter uma ou mais classificações.

- F24J 2/26** - Com superfícies estendidas, por ex., protuberâncias (2/28 tem prioridade)
- F24J 2/28** - Com matéria permeável, foraminosa ou materiais porosos
- F24J 2/30** - Com meios para trocar de calor entre uma pluralidade de fluidos
- F24J 2/32** - Com seção de evaporação e condensação, por ex., tubos para conduzir calor
- F24J 2/34** - Com matéria armazenada de calor
- F24J 2/36** - Unidades coletoras giráveis ou dobráveis
- F24J 2/38** - Empregando meios de reboque (2/02, 2/06 têm prioridade; radiogoniômetros para determinar a direção da qual estão sendo recebidas as ondas eletromagnéticas G 01 S 3/78; controle da posição ou direção G 05 D 3/00)
- F24J 2/40** - Disposições de controle
- F24J 2/42** - Sistemas de calor solar não incluídos em outro local
- F24J 2/44** - Com circulação termosifonada
- F24J 2/46** - Partes componentes, detalhes ou acessórios de coletores de calor solar
- F24J 2/48** - Caracterizado pelo material absorvedor
- F24J 2/50** - Coberturas transparentes
- F24J 2/51** - Isolamento térmico (2/50 tem prioridade)
- F24J 2/52** - Disposições de montagem ou suporte
- F24J 2/54** - Especialmente adaptados para movimentos rotativos

2. RESULTADOS

2.1 - Mundo

A busca realizada no sistema resultou num total de 2686 documentos de patentes publicados ao redor do mundo no período considerado. Um ponto importante a ser analisado nesta massa de dados diz respeito ao país da prioridade unionista do depósito, o que na maioria das ocorrências indica a origem da tecnologia contida nos documentos. O país da prioridade é o país onde foi realizado o primeiro depósito do pedido de patente. Ressalta-se que o depositante pode solicitar a prioridade de seu pedido de patente em um país diferente do país de sua residência, entretanto tal prática não se verifica na maioria dos pedidos

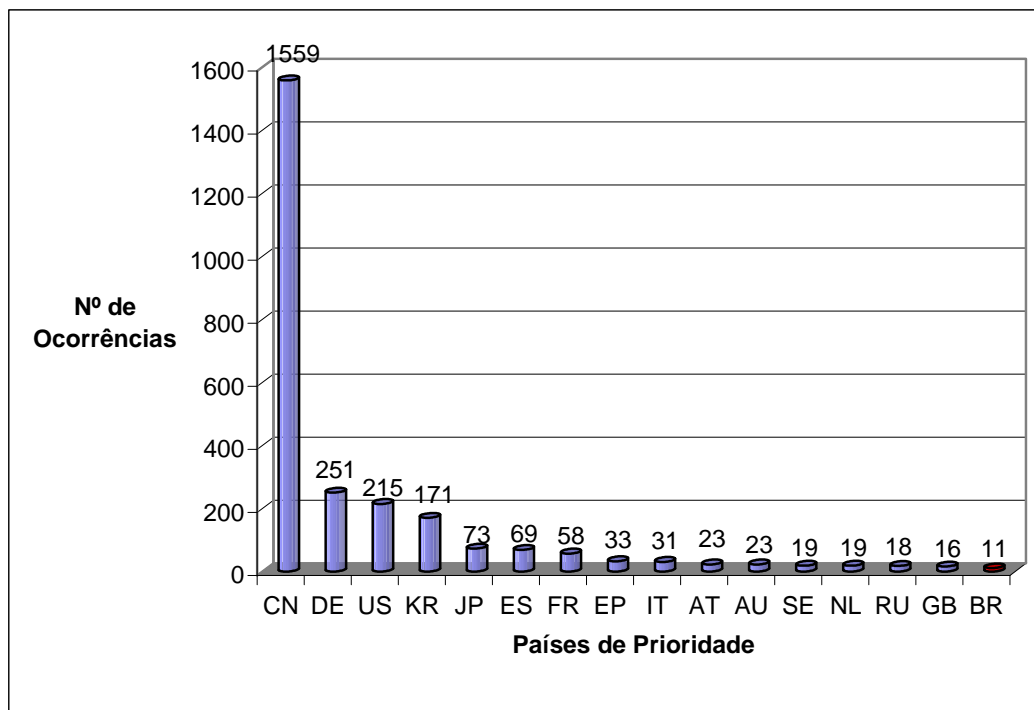
Cabe ressaltar também que um único pedido de patente pode ter mais de uma prioridade, assim os 2686 documentos encontrados no período estão relacionados a 2874 depósitos de prioridades.

O Gráfico 1 mostra que dentre o total de documentos, foram encontrados 1559 documentos com prioridade chinesa. Este número representa 58,04% das prioridades consideradas. A Alemanha ocupa o segundo lugar no ranking de prioridades de pedidos de patentes, com um total de 251 documentos, representando 9,34% do total, grande. O terceiro colocado no ranking de prioridades são os Estados Unidos com 215 pedidos publicados, equivalendo a 8,00% do total.

A seguir o Gráfico 1 permite a identificação dos países⁵ de prioridade dos documentos recuperados no período e a ocorrência em cada país.

⁵ A lista com os códigos dos países está disponível no Anexo I.

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



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

De acordo com o gráfico 1 os seis principais países de prioridades são:

CN – China

DE – Alemanha

US – Estados Unidos da América

KR – Coreia do Sul

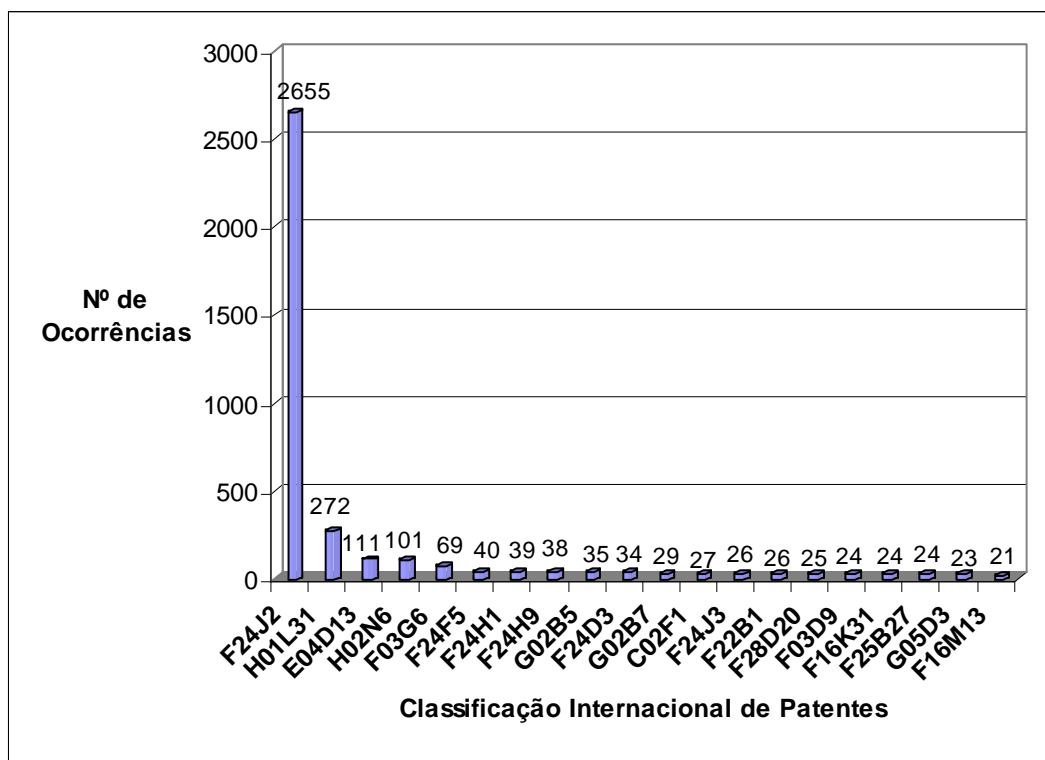
JP – Japão.

ES - Espanha

Outro ponto de análise refere-se as áreas de concentração da tecnologia. Para isto, foi verificado em quais itens da Classificação Internacional de Patentes estavam distribuídos os documentos encontrados, já que os mesmos cobriram todo o grupo F24J2/00, (a relação completa dos títulos dos subgrupos consta das páginas 8 e 9).

O gráfico 2, a seguir, apresenta tal distribuição. Este gráfico permite o monitoramento das tecnologias relacionadas à energia solar, descritas nos pedidos de patente publicados no período considerado no presente levantamento.

Gráfico 2: Distribuição dos documentos pela Classificação Internacional de Patentes



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

No que diz respeito às áreas de concentração tecnológica dos pedidos, segundo a Classificação Internacional de Patentes, não foram observadas alterações significativas, em comparação ao último levantamento que compreendeu todo o segundo semestre de 2009. A única alteração significativa diz respeito aos grupo principal F03G6 que subiu da nona para a quinta posição com 69 incidências e ainda o grupo principal F24F, saiu da décima primeira posição para sexta posição do ranking perfazendo 40 incidências.

Tabela 1: Relação dos principais depositantes dos países com pedidos de prioridade de patente e o número de pedidos publicados no 2º semestre de 2010

| Depositante | Total de Documentos |
|---|----------------------------|
| BEIJING HIKEEN TECH CO LTD [CN] | 28 |
| BEIJING WISWORD HI TECH CO LTD [CN] | 15 |
| MITAKA KOKI KK [JP] | 13 |
| ABENGOA SOLAR NEW TECHNOLOGIES [ES] | 10 |
| TM TECH CO LTD [KR] | 8 |
| UNIV MADRID POLITECNICA [ES] | 8 |
| CUBE ENERGY TECHNOLOGY SHANGHAI CO LTD E [CN] | 7 |
| GE PAN [CN] | 6 |
| GUANGDONG LIANSU TECHNOLOGY IND CO LTD [CN] | 6 |
| SAINT GOBAIN [FR] | 6 |
| SCHUECO INT KG [DE] | 6 |
| UNIV SOUTHEAST [CN] | 6 |
| YIAN FENG [CN] | 6 |
| BOSCH GMBH ROBERT [DE] | 5 |
| MITSUBISHI HEAVY IND LTD [JP] | 5 |
| MOUNTING SYSTEMS GMBH [DE] | 5 |
| SHENGLI LIU [CN] | 5 |

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

A Tabela 3 acima apresenta a relação dos principais depositantes de pedidos de patente publicados no segundo semestre de 2010, referente a energia solar. Pode-se notar a condição hegemônica das empresas de origem chinesa, que ocupam 8 posições dentre os 17 maiores depositantes; sendo os titulares cinco empresas, dois inventores independentes e uma universidade os quais perfazem o total de 79 pedidos publicados.

Constam ainda da relação duas empresas japonesas que somam 18 pedidos publicados, o mesmo número apresentado por outras duas empresas de origem espanhola, três empresas da Alemanha perfazendo 16 pedidos, uma empresa de origem coreana com 13 pedidos e outra francesa com 6 pedidos publicados.

2.2 - Brasil

Com relação aos pedidos de patente brasileiros que constam da Tabela 2, foram identificados doze documentos depositados no país, sendo onze com prioridade nacional, e um com prioridade holandesa. No período considerado o Brasil ocupou a décima primeira posição dentre os 39 países com depósitos prioritários publicados.

O perfil dos depositantes brasileiros revela que dos doze pedidos encontrados, sete foram efetuados por inventores independentes, e cinco por empresas.

Tal como ocorreu no primeiro semestre de 2010, também não foram publicados pedidos prioritários de origem brasileira em outros países no segundo semestre de 2010.

Tabela 2: Dados bibliográficos dos Pedidos de Patente sobre Energia Solar
publicados no 2º semestre de 2010
(Ordenados segundo o código do país de publicação)

Obs:

1- Os depósitos efetuados pelo sistema PCT – Patent Cooperation Treaty, representados pela sigla WO – Wipo Organization, contam com 165 ocorrências e correspondem a pedidos de prioridade de diversas nacionalidades, já que o sistema PCT atualmente é adotado por 142 países.

| Número do Documento | Prioridade(s) | Classificação Internacional | Depositante | Título |
|-------------------------|--|---|--|---|
| AP2152 A 20101031 | DE200510039404 20050820; WO2006DE01441 20060818 | F24J2/16; F24J2/38; F24J2/54 | NOVATEC BIOSOL AG [DE] | Fresnel solar collector arrangement. |
| AR073827 A1 20101201 | ES20080002897 20081014 | | IBERDROLA INGENIERIA Y CONSTRUCCION S A U [ES] | RECEPTOR SOLAR PERFECCIONADO PARA COLECTORES CILINDRO-PARABOLICOS. |
| AR073828 A1 20101201 | ES20080002896 20081014 | | IBERDROLA INGENIERIA Y CONSTRUCCION S A U [ES] | ESTRUCTURA MEJORADA APLICABLE A COLECTORES DE ENERGIA SOLAR CILINDRO-PARABOLICOS. |
| AT11369U U1 20100915 | AT20100000117U 20100302 | F24J2/38; F24J2/02; F24J2/40 | RG FERTIGUNGSTECHNIK GMBH [AT] | SOLAR ABSORBER |
| AT11437U U1 20101015 | AT20080000354U 20080623 | F24J2/06; F24J2/07 | KARLSREITER HERBERT JOSEF ING [AT] | FLÄCHENKONZENTRATOR |
| AT473402T T 20100715 | GB20040025777 20041123; WO2005GB04477 20051122 | F24J2/10; F02C1/05; F03G6/00; F03G6/06; F23G1/00; F23G5/08; F24J2/04; F24J2/24 | ARKAS EVANGELOS [GB]; ARKAS NICHOLAS [GB] | SONNENENERGIEFALLE UND TURBINE |
| AT474106T T 20100715 | DE200410009935 20040226; WO2005EP02095 20050228 | E04F13/08; F16B37/04; F24J2/52 | SECURA SERVICES AG [CH] | SYSTEM ZUR BEFESTIGUNG VON PLATTENELEMENTEN |

| Número do Documento | Prioridade(s) | Classificação Internacional | Depositante | Título |
|-------------------------|---|---|---------------------------|--|
| AT475753T T 20100815 | US20030505057P 20030924; WO2004DK00650 20040923 | E04B1/76; B32B7/02; B32B15/04; E04B1/74; E04B1/80; F24J2/04; F28D20/00 | INFINITY SYSTEMS AG [CH] | WÄRMELEITENDES BAUELEMENT, BAUKONSTRUKTION UND VERFAHREN ZUM ERRICHTEN DER BAUKONSTRUKTION |
| AT475848T T 20100815 | SE20020000287 20020131; WO2003SE00167 20030131 | F24J3/08; F24D11/00; F24J2/42; F25B30/06 | LOWTE AB [SE] | REGELVERFAHREN FÜR EINE ANLAGE ZUM TEMPERIEREN EINES GEBÄUDES |
| AT478310T T 20100915 | DE200410001875 20040114; WO2005EP00296 20050114 | F24J2/04; E04B7/22; E04D3/35; E04D13/17; F24J2/51; H01L31/048; H01L31/052 | HAKE THOMAS [DE] | VAKUUMGEDÄMMTES, MODULARES DACHSYSTEM |
| AT479873T T 20100915 | BE20070000537 20071106 | F24J2/26 | VIKTOR G [BE] | VERBESSERTER SONNENKOLLEKTOR |
| AT482365T T 20101015 | DE200710015850 20070330; DE200710026473 20070605; WO2008EP01829 20080307 | F24J2/14; F24J2/54 | AMATON SA [BE] | PARABOLRINNENKOLLEKTOR |
| AT483944T T 20101015 | US20040846112 20040514 | F24J2/04; F24J2/22; F24F5/00; F24F7/06; F24J2/28 | HOLLICK JOHN C [CA] | VERFAHREN UND VORRICHTUNG ZUM VORWÄRMEN DER VENTILATIONS LUFT EINES GEBÄUDES |
| AT483945T T 20101015 | EP20070009430 20070510 | F24J2/54; H01L31/042 | PVSTROM GMBH & CO KG [DE] | TRAGESYSTEM FÜR EINE NACHFÜHRBARE SOLARANLAGE UND BAUSATZ |

| Número do Documento | Prioridade(s) | Classificação Internacional | Depositante | Título |
|-------------------------|--|--|---------------------------------------|---|
| AT485482T T 20101115 | DE200620016382U 20061020 | F24J2/52 | HB ENERGIETECHNIK VERWALTUNGS [DE] | FLACHDACHAUFSATZ MIT SOLARMODULEN |
| AT487912T T 20101115 | NL20041027032 20040914; NL20041027699 20041209; WO2005NL00669 20050914 | F24J2/20; B21D53/04; F24J2/34; F24J2/38 | RAYVIN BEHEER B V [NL] | SOLARKOLLEKTOR UND VERFAHREN ZU SEINER HERSTELLUNG |
| AT489600T T 20101215 | IT2007MO00231 20070710; WO2008IB51874 20080512 | F28F3/12; B28B3/02; B28B3/12; B28B5/02; B30B5/06; C04B35/00; F24J2/22; F24J2/48 | SYSTEM SPA [IT] | VERFAHREN ZUR HERSTELLUNG VON SOLARPANEELEN |
| AT491123T T 20101215 | DE200710020234 20070423; DE200720006153U 20070423; WO2008DE00590 20080403 | F24J2/52; F16C11/02; F16C11/10 | HATICON GMBH [DE] | VORRICHTUNG ZUR AUFSTELLUNG VON SOLARMODULEN |
| AT507681 A4 20100715 | AT20090000270 20090217 | F24J2/52; E04D13/18; H01L31/048 | SIMMER JANE BERYL [AT] | VORRICHTUNG FÜR DIE BEFESTIGUNG VON TEILEN AN BZW. ÜBER DER DACHFLÄCHE EINES GEBÄUDES, SOWIE EINEN BESCHLAG, WELCHER TEIL DIESER VORRICHTUNG IST |
| AT507682 A4 20100715 | AT20090001056 20090706 | F28D20/02; F24H7/04; F24H7/06; F24J2/02 | ZIEGLER MAXIMILIAN [AT] | KACHELOFEN |

| Número do Documento | Prioridade(s) | Classificação Internacional | Depositante | Título |
|-------------------------|---------------------------|--|----------------------------|--|
| AT507709 A1 20100715 | AT20080000650 20080424 | F24D11/02; F24D3/00; F24D3/18; F24D15/04; F24J2/04 | VKR HOLDING AS [DK] | EINRICHTUNG ZUR WÄRMEGEWINNUNG |
| AT507710 A1 20100715 | AT20080001762 20081113 | F24D11/02; F24D3/00; F24D3/18; F24D15/04; F24J2/04 | VKR HOLDING AS [DK] | EINRICHTUNG ZUR WÄRMEGEWINNUNG |
| AT507817 A1 20100815 | AT20080002017 20081229 | F24D11/00; F24J2/34; F28D20/00 | HEFTER ARNOLD [AT] | SOLAR-WARMWASSER-FLACHSPEICHER |
| AT507964 A2 20100915 | AT20100000956 20100611 | F24J2/05; F24J2/38; F24J2/54; H01L31/048; H01L31/058 | FERSCHITZ REINOLD ING [AT] | KOMBI-SOLARKOLLEKTOR |
| AT508056 A1 20101015 | AT20090000540 20090406 | F24J2/34; F24D11/02; F24J2/40 | HEFTER ARNOLD [AT] | SOLARANLAGE |
| AT508104 A1 20101015 | AT20090000242 20090212 | H02J7/35; F24J2/40; G05F1/67; H02M7/44 | FRONIUS INT GMBH [AT] | PHOTOVOLTAIKANLAGE MIT MEHREREN WECHSELRICHTERN, WECHSELRICHTER, USB-MASSENSPEICHERGERÄT UND VERFAHREN ZUM DURCHFÜHREN VON SOFTWARE-UPDATES AN WECHSELRICHTERN |
| AT508132 A4 20101115 | AT20090000399 20090312 | F24J2/04; F24J2/40 | WISTRELA ROBERT [AT] | BAUTEIL |
| AT508133 A4 20101115 | AT20090000719 20090512 | F24J2/34 | FRELLER WALTER ING [AT] | VORRICHTUNG ZUM ERWÄRMEN VON BRAUCHWASSER |

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|-----------------------------|---|---|---|---|
| AT508340 A2 20101215 | AT20090000884 20090605 | F24J2/04; F24J2/06 | BUCHHORN GERO [CZ]; DOMME ALOIS [CZ] | VERFAHREN UND ANLAGE UM IN THERMISCHEN SOLARANLAGEN ZUR SYSTEMNUTZUNG HOHE TEMPERATUREN BIS ZUR DAMPFERZEUGUNG ZU ERZIELEN |
| AT508341 A2 20101215 | AT20090000896 20090610 | F24J2/46; F24J2/00 | HADLAUER MARTIN DIPL ING [AT] | REINIGUNGSSYSTEM FÜR SOLARKOLLEKTOREN |
| AU2009225293 A1 20100722 | AU20090225293 20090106 | F24J2/46; F21V29/00; F28F3/00; H01L31/04 | JEN SHYAN CHEN | Energy transducing apparatus and energy transducing equipment |
| AU2009248427 A1 20100701 | AU20080906409 20081212; AU20090901729 20090422; AU20090248427 20091211 | F24J2/00 | RIHA MIRKO | Care device |
| AU2009332855 A1 20100701 | ES20080003694 20081224; WO2009ES70556 20091203 | F24J2/54; H01L31/042 | GLOBAL SOLAR FUND PARTNERS SAR [LU] | Solar tracking device for panels |
| AU2010100671 A4 20100909 | AU20100100671 20100706 | F24J2/46; H01L31/042; H05K7/02 | CSANYI LASZLO | Solar (PV) array cable management solution |
| AU2010100828 A4 20100909 | AU20100100828 20100803 | F21V33/00; F24J2/00 | PLANELEC SERVICES PTY LTD | Solar lighting tower |
| AU2010100919 A4 20100930 | AU20100100919 20100824 | F24J2/00; F24J2/04; F24J2/46; F24J2/48 | ROGER ALTER | Solar home heating |
| AU2010100936 A4 20101007 | AU20100100936 20100826 | E04D1/00; E04D15/02; F24J2/46 | UCRI CORP | Solar panel accommodating roof tile |

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|------------------------------|---|---|-----------------------------------|--|
| AU2010100962 A4 20101007 | AU20100100962 20100902 | F24J2/46 | ROBERT CARPENTER | Integrated Solar Thermal Collector |
| AU2010200189B B1 20101125 | KR20090122412 20091210; WO2009KR04417 20090807 | F24J2/54 | OH BAE | Method and apparatus for separating caustic soda and fresh water from seawater by using green energy |
| AU2010200545 A1 20100902 | AU20090900597 20090213; AU20100200545 20100215 | F24D19/10; F24J2/40 | PREFORMED LINE PRODUCTS AUSTRA | A system, apparatus and method for securing solar panels to a supporting structure |
| AU2010200738 A1 20100916 | AU20090900878 20090227; AU20100200738 20100226 | F24J2/42 | SOLARPOWER PTY LTD | Solar hot water system |
| AU2010202723 A1 20100715 | AU20080203073 20080710; AU20100202723 20100629; AU20020332986 20021024; AU2001PR08658 20011102; AU2001PR09231 20011130 | F24H1/00; F24H1/18; F24H4/04; F24H9/00; F24J2/20; F24J2/26; F24J2/51; F25B30/06; F25B39/02; F25B39/04; F28D1/06 | QUANTUM ENERGY TECHNOLOGIES PT | Improved water heater |
| AU2010236094 A1 20101118 | AU20040253989 20040302; AU20100236094 20101028; WO2004EP02080 20040302; IT2003MO00191 20030626 | E04D13/147; B44C5/00; E04F17/02; E04F21/00; F24F13/20; F24J2/04; F24J2/34; F24J2/46; F24J2/52 | STRASSO PASQUALE | Apparatus and method for installing functional non-architectural elements |

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|-----------------------------|---|------------------------------------|---|---|
| BE1018302 A5 20100803 | BE20080000558 20081008 | | BARROO STEFAAN GASTON CORNEEL [BE] | KLIMATISATIE-INRICHTING. |
| BE1018381 A3 20100907 | BE20080000694 20081223 | | ARDIX [BE] | KLIKSISTEEM VOOR ZONNECOLLECTOR. |
| BRMU8702654U U2 20100803 | BR2007MU8702654U 20070928 | F24J2/46 | SCALIZA RENAN ANTONIO [BR] | aperfeiçoamentos introduzidos no sistema de captação de energia solar para aquecimento e armazenagem de água ou fluidos |
| BRMU8801747U U2 20101130 | BR2008MU8801747U 20080402 | F24J2/14 | MACTRONIC ELETROMECHANICA E HIDRAULICA LTDA [BR] | captador de energia radiante modular |
| BRMU8801893U U2 20100914 | BR2008MU8801893U 20080908 | F24J2/46 | L A M MELONI AQUECEDORES SOLAR [BR] | disposição construtiva introduzida em dispositivo coletor solar |
| BRMU8802931U U2 20100706 | BR2008MU8802931U 20081103 | F24J2/00 | BAETA JOSE GERALDO [BR] | sistema termo hidráulico de apoio a gás |
| BRMU8900630U U2 20101221 | BR2009MU8900630U 20090406 | F24J2/40; F24J2/46 | BAETA JOSE GERALDO [BR] | sistema termo hidráulico para aquecedores |
| BRMU9000039U U2 20101207 | BR2010MU9000039U 20100114 | F24J2/30; F24J2/22; F28F3/02 | MARTINEZ ORLANDO RODRIGUES [BR] | dispositivo de aquecimento de água solar |
| BRPI0601832 A2 20100810 | BR2006PI01832 20060329 | F24J2/44 | MORAES CARLOS AUGUSTO FIGUEIRA [BR]; MARTINS JOSE JR [BR] | sistema de aquecimento de água |
| BRPI0611137 A2 20100817 | NL20051029168 20050602; WO2006NL00276 20060602 | F24J2/34 | ECONCERN B V [NL] | coletor solar que tem um armazenador de calor integrado |
| BRPI0804217 A2 20100706 | BR2008PI04217 20080929 | F24J2/04; F24H1/22; F24J2/42 | BAETA JOSE GERALDO [BR] | sistema termo hidráulico de apoio a gás para hotéis |

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|----------------------------|-----------------------------|---|---|--|
| BRPI0804403 A2 20100713 | BR2008PI04403 20080911 | F24J2/46 | MARQUES JOSE [BR] | perfil para coletor solar |
| BRPI0806007 A2 20100831 | BR2008PI06007 20080929 | F24J2/42 | BAETA JOSE GERALDO [BR] | sistema termo hidráulico de apoio a gás para residência |
| BRPI0900542 A2 20101214 | BR2009PI00542 20090324 | F24J2/04; F24D17/00 | MOANA ALEXANDRE SEDLACEK [BR] | dispositivo híbrido de coleta e reserva de Água a partir de radiação solar |
| CA2664840 A1 20101105 | CA20092664840 20090505 | F24J2/00; F24J2/46; H01L31/042 | HAMMERBACHER MILFRED [CA] | PRE-ASSEMBLED PRE-WIRE-CONNECTED PHOTOVOLTAIC ARRAYS MADE OF FRAMELESS MODULES |
| CA2666024 A1 20101119 | CA20092666024 20090519 | F24J2/48; F24J2/00 | DEFORGE JOHN BRADLEY [CA]; DEFORGE DAVID [CA] | METHOD AND APPARATUS FOR A PASSIVE REFLECTOR WARMER FOR CONCENTRATING SOLAR COLLECTORS |
| CA2690427 A1 20100823 | DE200910010225 20090223 | C25B1/16; C02F1/04; C02F9/06; F24J2/00 | OLON SE [DE] | SOLAR INSTALLATION COMPRISING AT LEAST ONE SOLAR MODULE HAVING A SPRING-LOADED MOUNTING OF THE COVER PLATE |
| CA2690650 A1 20100818 | US20090153484P 20090218 | F24J2/34 | MATRIX ENERGY INC [CA] | MODULAR TRANSPIRED SOLAR AIR COLLECTOR |
| CA2690655 A1 20100723 | US20090146813P 20090123 | F24J2/00 | ENERCONCEPT TECHNOLOGIES INC [CA] | SOLAR UV TRANSMISSIVE DEVICE FOR STERILIZING AND/OR HEATING AIR |
| CA2698015 A1 20101001 | US20090416416 20090401 | F24J2/04; F24J2/00; F24J2/40 | GOJO IND INC [US] | ADJUSTABLE SOLAR-POWER UNIT FOR A DISPENSER |
| CA2699896 A1 20101107 | US20090437068 20090507 | F24J2/46 | OPSUN TECHNOLOGIES INC [CA] | LOW CONCENTRATING PHOTOVOLTAIC THERMAL SOLAR COLLECTOR |
| CA2703324 A1 20101215 | DE200920013324U 20091009 | F24J2/42; F24J2/00 | 2192780 ONTARIO INC O A GALAXY ENERGY AMERICAS [CA] | SOLAR PANEL ROOF SURFACE |

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|--------------------------|---|---------------------------------------|--|--|
| CA2703692 A1 20101113 | US20090177850P 20090513; US20090219602P 20090623; US20100754125 20100405 | F24J2/52; E04D13/18; H01L31/042 | GREAT LAKES ELECTRIC LLC [US] | MODULAR SOLAR FENCE SYSTEM |
| CA2704650 A1 20101119 | CA20092666017 20090519; CA20092666018 20090519; CA20092666024 20090519; CA20102704650 20100519 | F24J2/52; H01L31/042; H01L31/05 | DEFORGE JOHN BRADLEY [CA]; DEFORGE DAVID [CA] | ASYMMETRIC SOLAR COLLECTOR SYSTEM |
| CH700217 B1 20100831 | CH20060001227 20060729 | B63B35/44; F24J2/52; H01L31/04 | SUISSE ELECTRONIQUE MICROTECH [CH] | Plate-forme solaire |
| CH700267 A1 20100730 | CH20090000086 20090120 | F24J2/08 | BITTER GORDON [CH] | Solar collector for storing heat, has retaining frame, and lenses symmetrically engaged on plate to bundle penetrating solar energy and transmit solar energy to absorber unit, and reflectors and/or intermediate plate arranged under pipe |
| CH700407 A2 20100813 | AT20090000162 20090130 | F24J2/38; F24J2/40; F24J2/52 | VAILLANT GMBH [CH] | Verbindungsvorrichtung für Bauteile. |
| CH700626 A1 20100930 | CH20090000398 20090317 | F24J2/42; F21S11/00 | REZAGIC ZLATKO [CH] | Solar collector for use in e.g. underground area, is designed such that plastic parabolic part with highly reflective surface makes corresponding energy concentration in focal point, where stand is provided to stabilize parabolic part |

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|---------------------------|----------------------------|--|-----------------------------------|---|
| CH700627 A1 20100930 | CH20090000399 20090317 | F24J2/24 | REZAGIC ZLATKO [CH] | Tubular solar collector, has core tube provided with black plastic material for absorbing solar energy, and central and external tubes provided with gap for viewing mold of middle tube between central and external tubes |
| CH700675 A2 20100930 | CH20090000504 20090330 | F24J2/04; F24J2/42 | HARTMANN WALTER [CH] | Sonnenkollektoreinrichtung, Solaranlage und Verfahren zum Betreiben einer Solaranlage. |
| CH701001 A2 20101115 | CH20090000682 20090430 | F24J2/04; F24D10/00 | IJSPEERT ALBERT JAN [CH] | Solar cistern for heating individual house, has open type hydraulic circuits lightly inclined such that hydraulic circuits are emptied by drain in cistern when pumps are stopped to protect hydraulic circuits against frost |
| CH701134 A2 20101130 | DE200910021928 20090519 | F24J2/46 | WUERZ ENERGY GMBH [DE] | Vorrichtung zur Wärmeregelung. |
| CH701194 A2 20101215 | DE200910024359 20090609 | F24J2/32 | HEIKO PLAG [DE] | Thermal solar collectors operating method for low temperature applications, involves humiliating operating temperature of heat carrier fluid, where collector temperature lies below or is smaller than surrounding temperature |
| CN101768310 A 20100707 | CN20091247217 20091228 | E04B2/00; E04B1/76; F24J2/00; F24J2/04; F24J2/34 | SHANGHAI KINGFA SCI & TECH CO | Beta-crystal polypropylene composition for inner container of water heater and preparation method thereof |
| CN101769554 A 20100707 | CN20081204982 20081230 | F24D3/02; F24D3/10; F24H1/22; F24J2/04 | SHANGHAI BOBO QIANHE TECHNOLOG | Photoelectric collector system |
| CN101769555 A 20100707 | CN20081204981 20081230 | F24D3/08; F24H1/22; F24J2/04 | SHANGHAI BOBO QIANHE TECHNOLOG | Photoelectric heat collecting method |
| CN101769556 A 20100707 | CN20081230331 20081229 | F24D3/08; F24J2/04 | YUYING GUO | Multifunctional heating device |

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|---------------------------|---------------------------|---|--|---|
| CN101769562 A 20100707 | CN20081154667 20081229 | F24D15/02; F24H1/22; F24J2/04 | TIANJIN DEV AREA ERJIAYIMILAN | Vertical solar photoelectric complementary multi-purpose heat collecting and radiating unit |
| CN101769563 A 20100707 | CN20081205197 20081231 | F24D17/02; F24J2/00 | SHI ZHONGTIAN | Method and system for storing energy and supplying hot water in multi-temperature area |
| CN101769564 A 20100707 | CN20081205198 20081231 | F24D17/02; F24J2/00 | GUOLIANG SHI | Method for energy diversification energy storage and hot water supply and system therefor |
| CN101769565 A 20100707 | CN20081205199 20081231 | F24D17/02; F24J2/00 | SHI ZHONGTIAN | Method for hot water supply by cyclic utilization of heat energy and system therefor |
| CN101769592 A 20100707 | CN20081205194 20081231 | F24H1/12; F24J2/05 | SHI ZHONGTIAN | Sterilizing and softening method and sterilizing and softening device for exchanging heat of water into and out of water heater |
| CN101769600 A 20100707 | CN20101000241 20100105 | F24J2/00 | PEIZHOU HAN | Concentrating-type heat collector with bar lens and trough reflectors convenient to mount in glass hood |
| CN101769601 A 20100707 | CN20101028114 20100118 | F24J2/38; G06F17/40; H01L31/042 | BO LI | Sunward solar energy stove for self-synchronizing solar motion |
| CN101769602 A 20100707 | CN20101039776 20100114 | F24J2/00 | HANGZHOU LIUYI TECHNOLOGY CO L | Convenient solar heat-accumulating cake |
| CN101769603 A 20100707 | CN20081187794 20081231 | F24J2/04; F24J2/06; F24J2/34; H02N6/00 | TIANJIN BOJUYUAN LIGHT INDUSTR; TIANJIN XINGKONGJIAN INSTTUE; TIANJIN ZILI INST OF ENERGY SA | Solar heat storage method |
| CN101769604 A 20100707 | CN20101107691 20100203 | F24J2/51; F24J2/24; F24J2/46 | CHINESE ACAD TECH INST PHYSICS | Solar water heater for guiding solar energy to water storage tank by utilizing energy transfer medium |
| CN101769605 A 20100707 | CN20081154665 20081229 | F24J2/05 | TIANJIN DEV AREA ERJIAYIMILAN | Solar energy light-and-thin type vacuum glass circulating heat-collecting tube |
| CN101769606 A 20100707 | CN20081154668 20081229 | F24J2/05; F24J2/46 | TIANJIN DEV AREA ERJIAYIMILAN | Solar vertical light thin type vacuum glass circulating heat collector |

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|---------------------------|---------------------------|---|---|---|
| CN101769607 A 20100707 | CN20081205193 20081231 | F24J2/05 | SHI ZHONGTIAN | Solar disinfection and softening heat-collecting device |
| CN101769608 A 20100707 | CN20081306761 20081231 | F24J2/05; F24J2/24; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Solar collector installed with horizontally inserted, densely arranged and jacking evacuated solar collector tubes with location tube joints |
| CN101769609 A 20100707 | CN20081306762 20081231 | F24J2/05; F24J2/24; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Solar collector installed with horizontally inserted, densely arranged and jacking screwing hermetic evacuated solar collector tubes |
| CN101769610 A 20100707 | CN20081306763 20081231 | F24J2/05; F24J2/24; F24J2/32; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Transversely inserted and close-spaced all-glass vacuum heat pipe combined heat-collecting pipe type solar collector |
| CN101769611 A 20100707 | CN20081306764 20081231 | F24J2/05; F24J2/24; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Transversely inserted, close-packed and propped vacuum heat-collecting pipe combined solar collector with nozzle of core pipe positioned |
| CN101769612 A 20100707 | CN20081306765 20081231 | F24J2/05; F24J2/24; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Solar collector of longitudinally inserted, closely arranged and tightly pressed evacuated solar collector tubes provided with positioning tube heads |
| CN101769613 A 20100707 | CN20081306766 20081231 | F24J2/05; F24J2/24; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Solar thermal collector for vertical-inserted close-packed tightly-resisting assembled metal section tube compound vacuum thermal-collecting tube |
| CN101769614 A 20100707 | CN20081306767 20081231 | F24J2/05; F24J2/24; F24J2/32; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Solar thermal collector for vertical-inserted close-packed all-glass vacuum thermal-collecting tube |
| CN101769615 A 20100707 | CN20081306771 20081231 | F24J2/05; F24J2/24; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Solar collector with reducing long-diameter evacuated solar collector tubes installed in form of horizontal inserting and dense arranging |
| CN101769616 A 20100707 | CN20081306772 20081231 | F24J2/05; F24J2/24; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Solar collector installed with horizontally inserted, densely arranged and jacking metal section tube composite evacuated solar collector tubes |

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| CN101769617 A 20100707 | CN20081306773 20081231 | F24J2/05; F24J2/24; F24J2/32; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Solar collector with horizontally inserted and densely arranged metal section heating tube composite glass evacuated solar collector tubes |
| CN101769618 A 20100707 | CN20081306774 20081231 | F24J2/05; F24J2/24; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Solar collector with reducing evacuated solar collector tubes installed through tight butting in form of horizontal inserting and dense arranging |
| CN101769619 A 20100707 | CN20081306775 20081231 | F24J2/05; F24J2/24; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Transversely inserted, close-packed and propped vacuum heat-collecting pipe combined solar collector with nozzle of core pipe positioned |
| CN101769620 A 20100707 | CN20081306776 20081231 | F24J2/05; F24J2/24; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Solar collector of screw seal evacuated solar collector tubes longitudinally inserted, closely arranged and tightly pressed |
| CN101769621 A 20100707 | CN20081306777 20081231 | F24J2/05; F24J2/24; F24J2/32; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Solar thermal collector for vertical-inserted close-packed metal section heat tube compound glass vacuum thermal-collecting tube |
| CN101769622 A 20100707 | CN20081306778 20081231 | F24J2/05; F24J2/24; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Solar collector of necking reducer evacuated solar collector tubes longitudinally inserted, closely arranged and tightly pressed |
| CN101769623 A 20100707 | CN20091300014 20090104 | F24J2/05; F24J2/24; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Solar hot air collector installed with horizontally inserted and densely arranged necking long-diameter evacuated solar collector tubes |
| CN101769624 A 20100707 | CN20091300015 20090104 | F24J2/05; F24J2/24; F24J2/32; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Transversely inserted and close-spaced metal profile heat pipe combined vacuum heat-collecting pipe type solar hot air collector |
| CN101769625 A 20100707 | CN20091300016 20090104 | F24J2/05; F24J2/24; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Solar hot air collector installed with horizontally inserted, densely arranged and jacking necking reducing evacuated solar collector tubes |
| CN101769626 A 20100707 | CN20091300018 20090104 | F24J2/05; F24J2/24; F24J2/32; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Solar hot-air thermal collector for vertical-inserted close-packed metal section heat tube compound vacuum thermal-collecting tube |

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| CN101769627 A 20100707 | CN20091300019 20090104 | F24J2/05; F24J2/24; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Solar hot-air thermal collector for vertical-inserted close-packed tightly-resisting assembled necking reducing vacuum thermal-collecting tube |
| CN101769628 A 20100707 | CN20091300020 20090104 | F24J2/05; F24J2/24; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Solar hot air collector installed with horizontally inserted, densely arranged and jacking screwing hermetic evacuated solar collector tubes |
| CN101769629 A 20100707 | CN20091300021 20090104 | F24J2/05; F24J2/24; F24J2/32; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Transversely inserted and close-spaced all-glass vacuum heat pipe combined heat-collecting pipe type solar hot air collector |
| CN101769630 A 20100707 | CN20091300022 20090104 | F24J2/05; F24J2/24; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Heat collecting pipe solar and wind heat collector with air duct pipe nozzle positioning, transversal inserting, sealed arranging and jacking installation |
| CN101769631 A 20100707 | CN20091300023 20090104 | F24J2/05; F24J2/24; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Solar hot-air thermal collector for vertical-inserted close-packed tightly-resisting assembled winding sealing vacuum thermal-collecting tube |
| CN101769632 A 20100707 | CN20091300024 20090104 | F24J2/05; F24J2/24; F24J2/32; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Solar hot-air thermal collector for vertical-inserted close-packed all-glass vacuum thermal-collecting tube |
| CN101769633 A 20100707 | CN20091300025 20090104 | F24J2/05; F24J2/24; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Solar hot-air thermal collector for vertical-inserted close-packed assembled necking long-diameter vacuum thermal-collecting tube |
| CN101769634 A 20100707 | CN20091300027 20090104 | F24J2/05; F24J2/24; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Heat collecting pipe solar and wind heat collector with air duct pipe nozzle positioning, longitudinal inserting, sealed arranging and jacking installation |
| CN101769635 A 20100707 | CN20101010130 20100115 | F24J2/10 | DALIAN SIEVERT TESTING EQUIPMENT CO LTD | Heat collection module of water-injection pressure-bearing circulating full-glass vacuum tube |

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|---------------------------|---------------------------|--|-----------------------------------|--|
| CN101769636 A 20100707 | CN20081208135 20081229 | F24J2/12; F24J2/38; G02B7/182; G02B7/185; H02N6/00 | SHANGHAI SHENXI SOLAR ENERGY S | Assembled light-gathering solar collection device and assembling method thereof |
| CN101769637 A 20100707 | CN20101105095 20100131 | E04B2/14; E04C1/40; E04C1/41; F24J2/00 | DELONG YAO | Copper-free stainless steel flat-panel type solar super-high heat conduction heat collector |
| CN101769638 A 20100707 | CN20091217307 20091231 | F24J2/08; F24J2/10 | WESTECH SOLAR CO LTD | Water bath pressure-bearing open in-line full glass vacuum tube solar water heater |
| CN101769639 A 20100707 | CN20091266614 20091231 | H02N6/00; F24J2/10; F24J2/24; H02N11/00 | WESTECH SOLAR CO LTD | Direct-insert pressure-bearing open all-glass vacuum tubular solar water heater with double inner containers |
| CN101769640 A 20100707 | CN20081205189 20081231 | F24J2/32; F24J2/24 | SHI GUOQING | Glass heat tube heat-collecting tube of the heat transport of cover glass tube |
| CN101769641 A 20100707 | CN20101107959 20100210 | F24J2/24; F16L39/00; F24J2/04; F24J2/46 | ENERGY RES INST OF SHANDONG AC | Solar water heater |
| CN101769642 A 20100707 | CN20081249683 20081228 | F24J2/34; F24H1/20; F24J2/04; F24J2/46 | YICHANG DONG | Heat-accumulation solar heating water heater |
| CN101769643 A 20100707 | CN20091058051 20090106 | F24J2/34; F24J2/38; G02B3/08; H02N6/00 | CHENGDU ZHONGSHUN TECHNOLOGY C | Follow-up large-scale Fresnel lens point focusing solar system |
| CN101769644 A 20100707 | CN20081205186 20081231 | F24J2/46; F24J2/24 | XU XIUPING | Tube plate absorber embedded in elastic pipeline |
| CN101769645 A 20100707 | CN20081205187 20081231 | F24J2/46; B23K20/10 | XU XIUPING | Tube plate absorber welded with pressure tank aluminum strips |

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|----------------------------|---------------------------|--|-----------------------------------|---|
| CN101769646 A 20100707 | CN20081249774 20081231 | F24J2/46; F16L9/12; F16L59/02; F16L59/08 | SHUTANG YANG | Seamless solar PE thermal insulation pipe |
| CN101769647 A 20100707 | CN20101033714 20100111 | F24J2/38 | BEIJING SOLAR ENERGY RES INST | Water tank for solar water heater |
| CN101769648 A 20100707 | CN20081241893 20081230 | F24J2/48; B32B15/04; C23C14/34 | SHENZHEN PROSUNPRO SOLAR ENERG | Selective coating for absorbing solar light and heat |
| CN101769649 A 20100707 | CN20081241894 20081230 | F24J2/48; B32B15/04; C23C14/34 | SHENZHEN PROSUNPRO SOLAR ENERG | Selective composite coating for absorbing solar light and thermal |
| CN101769650 A 20100707 | CN20091155783 20091225 | F24J2/48; F24J2/18; F24J2/24 | ZHISHENG XIA | Intercommunicated full-glass vacuum solar heat- collecting tube |
| CN101769651 A 20100707 | CN20101004601 20100111 | F24J2/46; H01L31/042; H01L31/058 | JIANGTAO XUE | Collector tube for solar water heater |
| CN101769652 A 20100707 | CN20101039126 20100107 | F24J2/07; F24J2/14 | YUXI XINGHONG SOLAR ENERGY EQU | Pressure type solar water heater heat-collecting plate and production technology |
| CN101770230 A 20100707 | CN20091028745 20090106 | G05B19/418; F24J2/40 | JIANGSU SUNSHORE SOLAR ENERGY | Remote monitoring system of solar energy heat- collecting device |
| CN101775824 A 20100714 | CN20101104102 20100127 | G06F19/00; F24J2/46; F24J2/52; H01L25/00; H01L31/048 | ZHEN LIU | Air dehumidifier, solar energy water heater, refrigerator, battery set and steam box |
| CN101775859 A 20100714 | CN20101105632 20100130 | F24J2/48 | FANGLIN HUAI | Heat insulation building block building wall suitable for mounting solar heat collector to supply heat |
| CN101776325 A 20100714 | CN20101018320 20100113 | F24J2/38; F24J2/10; H01L31/042 | UNIV SOUTHEAST | Compound parabolic condenser combining inside condensation and outside condensation |

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|---------------------------|---------------------------|---|---|---|
| CN101776326 A 20100714 | CN20091002259 20090113 | F24J2/04; H02N11/00 | IND TECH RES INST | Solar water heater device |
| CN101776327 A 20100714 | CN20101113102 20100222 | H01L31/042; F24J2/10 | JIANGSU NEW BANSHEN SOLAR ENER | Matrix solar water heater |
| CN101776328 A 20100714 | CN20101117141 20100212 | F24J2/24; F24J2/04; F24J2/46 | CHANGHE XU | Solar drinking-water collector and solar photovoltaic generating set |
| CN101776329 A 20100714 | CN20101108139 20100210 | F24J2/32; F24J2/46 | WUXI YUKSIDE SCIENCE & TECHNOL | Flat-plate paraboloidal solar light-condensing and heat-collecting device |
| CN101776330 A 20100714 | CN20091001539 20090109 | F24J2/16; F24J2/38 | JIANGUO DAI; ZHIXIONG LIU; NING MENG | Novel solar energy light gathering and heat collecting method and system |
| CN101776331 A 20100714 | CN20091000620 20090109 | F24J2/32 | WEIJIE LIU | Ultrathin heat pipe solar thermal collector |
| CN101776332 A 20100714 | CN20091140086 20090709 | F24J2/38; F24J2/40; F24J2/46; F24J2/50 | GANG LI | Integral flat double-shaft solar water heater |
| CN101776333 A 20100714 | CN20101028060 20100111 | F24J2/48 | SHENGLI LIU | Method for driving track by using tank type solar focusing line as axes |
| CN101776334 A 20100714 | CN20091001669 20090109 | F24J2/40; G01F23/14; G01K7/22 | YIKAI LIN | Water-level and water-temperature sensor for solar water heater |
| CN101776335 A 20100714 | CN20091013791 20090113 | F24J2/46 | YICHANG DONG | Antifreezing incubator for pipelines of solar water heater |
| CN101776336 A 20100714 | CN20101109179 20100211 | E04D13/18; F24J2/52 | WENSHENG LIU | Water outlet box for two kinds of water of solar water heater |
| CN101776337 A 20100714 | CN20101110634 20100121 | B42D15/10; B42D15/00 | HEBEI HAODE NEW ENERGY EQUIPME | Solar collector |
| CN101776338 A 20100714 | CN20091264730 20091230 | G05D3/00; F24J2/38; H02N6/00 | STARARC COATING TECHNOLOGY SUZ | Solar high-temperature and heat-absorbing CrFeON film and preparation process thereof |

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|---------------------------|---------------------------|---|---|---|
| CN101776339 A 20100714 | CN20101000242 20100105 | F24J2/00; F24J2/46; F24J2/54 | PEIZHOU HAN | Vacuum heat collecting tube adopting metal heat absorbing tube |
| CN101776377 A 20100714 | CN20091243599 20091229 | F24F5/00; F24J2/00 | UNIV BEIJING FORESTRY | Drying method by using solar energy and device thereof |
| CN101776917 A 20100714 | CN20091215498 20091230 | F24J2/46 | JUNHUA LIU | Full-automatic solar sun-tracking mechanical device |
| CN101781915 A 20100721 | CN20091245143 20091228 | F24J2/04 | TIANJIN HUAXIA CULTURE & ART I; TIANJIN JUXIAN INVEST CO LTD; TIANJIN ZILI ENGINEERING DESIG | Solar energy wall body heat utilization system |
| CN101782156 A 20100721 | CN20101117277 20100303 | F24J2/00; B01D1/00 | YUHONG XIA | Full water self-closing exhaust valve used for solar water heater |
| CN101782271 A 20100721 | CN20091029062 20090117 | F24H3/00; F24J2/00; H02J7/35 | PENG ZHANG | Solar fan heater |
| CN101782276 A 20100721 | CN20091029070 20090119 | F24J2/02; F24J2/08; F24J2/32 | BIREN WANG | Focal line light-gathering and heat-collecting solar oven |
| CN101782277 A 20100721 | CN20101121890 20100311 | C01B3/04; C25B1/04; F03G6/06; F24J2/52 | JIANGUO BAI | Vacuum circulation heat conduction pipe of solar heat collector and production method thereof |
| CN101782278 A 20100721 | CN20091013960 20090118 | F24J2/06 | WEN LIU | Golden autumn solar energy |
| CN101782279 A 20100721 | CN20091013959 20090118 | F24J2/10 | WEN LIU | Hundredfold solar energy |
| CN101782280 A 20100721 | CN20091077223 20090120 | F24J2/10; E04D13/18; F24J2/38 | YANG LIU | Solar energy collecting device and building component by utilizing same |
| CN101782281 A 20100721 | CN20091139457 20090617 | F24J2/24; F24J2/46 | YANBIN ZHAO | Freeze-proofing high-efficiency solar energy water heater water tank |

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|---------------------------|---|---|---|--|
| CN101782282 A 20100721 | CN20101126073 20100317 | F24J2/00 | GUOLI GAO | Solar energy heat storage groundwater heating device |
| CN101782283 A 20100721 | CN20091013940 20090116 | F24J2/38 | HUIYUN AN; XIN JIN; YOUGUANG JIN | Focusing solar energy condenser of fixing lighting-surface and driving fixed points by imitation star titration method |
| CN101782284 A 20100721 | CN20091000822 20090119 | F24J2/46; F28D20/02 | WEIJIE LIU | Phase-change heat storage water tank used for solar water heater |
| CN101782285 A 20100721 | CN20091045550 20090120 | F24J2/46 | GE PAN | Automatic cleaning system of solar energy collector |
| CN101782286 A 20100721 | CN20091045551 20090120 | F24J2/46 | GE PAN | Sunshade device for large solar heat collector |
| CN101782287 A 20100721 | CN20101131729 20100324 | E04H6/02; E04D13/04; F24J2/52 | CUBE TECHNOLOGIES SHANGHAI CO | Method for manufacturing solar energy collector |
| CN101782291 A 20100721 | CN20091052740 20090609 | F25B27/00; F24J2/34; F24J2/48; F25B17/08; F28D15/04 | UNIV SHANGHAI MARITIME | Adsorption refrigeration device driven by parabolic solar thermal collector and heat pipe |
| CN101782312 A 20100721 | CN20091003335 20090115 | F26B9/02; F24J2/04; F26B21/00 | NAT ENGINEERING RES CT FOR GRA; CHINA ACADEMY OF AGRICULTURAL | Alternately heating solar straw bale drying device |
| CN101782745 A 20100721 | CN20091026741 20090505 | G05B15/02; F24J2/46; G05D3/12 | NANJING SHUAI RUI TECHNOLOGY C | Sunlight collector control system |
| CN101784844 A 20100721 | WO2008US66371 20080609; US20070933816P 20070608; US20080069806P 20080318 | F24J2/38 | ESOLAR INC [US] | Solar collector system for solar thermal applications |

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|----------------------------|---------------------------|--|---|---|
| CN101786805 A 20100728 | CN20091243911 20091225 | F24J2/48; C23C14/06; C23C14/35 | BEIJING TIANRUIXING VACUUM TECHNOLOGY DEV CO LTD | Sealing method of borosilicate glass and kovar alloy of solar collector tube |
| CN101788161 A 20100728 | CN20101129566 20100323 | G02B7/182; F24J2/16; F24J2/52 | UNIV SHANGHAI JIAOTONG | Building heat supplying and heating system based on solar air heat collector |
| CN101788190 A 20100728 | CN20101030165 20100113 | F24J2/00; F24J2/46; F24J2/52 | YILIE WANG | Solar photothermal conversion heating circulation system |
| CN101788191 A 20100728 | CN20101133159 20100326 | G02B6/00; F21K99/00; F21S8/10; F21V7/00; F21V13/04; G02B17/08; G02B27/09 | UNIV ZHEJIANG | Concentrating solar thermoelectric cold cogeneration system |
| CN101788192 A 20100728 | CN20101147780 20100316 | F03G6/06; F01K17/00; F22B1/00; F24J2/30 | HUAQIANG FENG | Clean magnetization energy-saving solar water heater |
| CN101788193 A 20100728 | CN20101134990 20100330 | F03G6/00; A47K5/12; A47K10/32; B67D99/00; E03C1/05; F24J2/54 | WUXI YUKSIDE TECHNOLOGY CO LTD | Solar energy collecting and utilizing device with sun- oriented illuminator |
| CN101788194 A 20100728 | CN20101131738 20100324 | F24J2/24; F24J2/05; F24J2/46 | YIKEBO ENERGY TECHNOLOGY SHANGHAI CO LTD | Solar collector |
| CN101788195 A 20100728 | CN20101141755 20100406 | F24J2/00 | HIMIN SOLAR CO LTD | Heat accumulation type flat-panel solar water heater without water tank |
| CN101788196 A 20100728 | CN20101028101 20100115 | F24J2/05; F24J2/24; | SHENGLI LIU | Pump-free high-temperature liquid automatic circulation system |

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|---------------------------|---------------------------|--|--|--|
| | | F24J2/46 | | |
| CN101788197 A 20100728 | CN20101110783 20100210 | F24J2/10; F24J2/24 | JIANGSU TAIHU BOILER CO LTD | Solar energy thermal-power-generating heat-absorption heated surface arrangement structure |
| CN101788198 A 20100728 | CN20101121560 20100310 | F25B29/00; F24J2/32; F25B21/02; H02N6/00 | YANPIN WU | Full-glass dual-channel vacuum tube heat collector |
| CN101788199 A 20100728 | CN20101131736 20100324 | F24J2/46; F24J2/52 | YIKEBO ENERGY TECHNOLOGY SHANGHAI CO LTD | Solar receiver |
| CN101788200 A 20100728 | CN20101129871 20100318 | F24J2/46; F24J2/34 | HUAI AN YINGSHUO ENERGY EQUIPM | Integrally closed water-saving anti-freezing device for solar water heater |
| CN101788201 A 20100728 | CN20101143437 20100306 | F24J2/38; F24J2/52; F24J2/54; H01L31/042 | FENG YI AN | Hot fluid transferring pipe |
| CN101788202 A 20100728 | CN20101112070 20100223 | G02B27/09; F24J2/06; G02B6/00; G02B6/42; G02B27/12; G02B27/14 | SHULIANG CAO | Black porcelain composite ceramic tube and internally connected tubular solar heat collecting system thereof |
| CN101788203 A 20100728 | CN20101104783 20100203 | F24J2/46 | JIANGUO BAI | Insulation board provided with solar heating device and manufacturing method thereof |
| CN101793080 A 20100804 | CN20091263534 20091223 | F24J2/04; F24J2/30 | SICHUAN SHENGYANG SOLAR ENERGY APPLIED TECHNOLOGY CO LTD | Embedded flat heat collecting roof/wall surface |
| CN101793081 A 20100804 | CN20101118323 20100304 | F24J2/05; C02F1/32; F24J2/46 | SHENZHEN PUXIN SCIENCE & TECHNOLOGY CO LTD | Multifunctional solar panel |

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|---------------------------|---|---|--|---|
| CN101793387 A 20100804 | CN20091246008 20091122 | F22B1/00; F24J2/24; F24J2/46 | YIAN FENG | Method for producing steam by utilizing solar energy vacuum tube |
| CN101793421 A 20100804 | JP20090019236 20090130 | F24J2/48; H02N10/00 | MATSUSHITA ELECTRIC IND CO LTD | Liquid circulation heating system |
| CN101793435 A 20100804 | CN20091028975 20090202 | F24J2/46 | CAIFEN XU | Automatic water supply device of solar water heater |
| CN101793436 A 20100804 | CN20091246006 20091122 | F24J2/46 | YIAN FENG | Solar united collection box with finned tubes |
| CN101793437 A 20100804 | CN20091244289 20091231 | F24J2/30; F24J2/05; F24J2/24; F24J2/46 | SHENYANG BELLAVAC VACUUM TECH CO LTD | Multi-purpose solar spectrum selective absorbing coating and preparation method thereof |
| CN101793438 A 20100804 | CN20101114310 20100226 | F24J2/30; F24J2/04 | CHANGSHA XINGNA AEROGEL CO LTD; DONGGUAN CHUANGYI NEW MATERIALS TECHNOLOGY CO LTD | Composite flat plate type solar heat collecting plate and preparation method thereof |
| CN101793449 A 20100804 | CN20101136139 20100323 | F24D5/00; F24D11/00; F24J2/00 | GUANGDONG MIDEA ELECTRIC APLNC | Multi-heat-source heat pump system |
| CN101794017 A 20100804 | CN20101115538 20100302 | F24J2/40; F24J2/38; F24J2/52 | DAREN DENG | Thin film solar reflecting and condensing device |
| CN101796353 A 20100804 | WO2008KR05114 20080901; KR20070087806 20070830 | F24J2/12 | RAE CHO KUK; ANG CHO SO; ANG CHO BEE | Radio wave reflector focusing electron wave of solar radiation and thermal storage unit using electron wave |

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|---------------------------|---|---|--|---|
| CN101796652 A 20100804 | WO2008US75250 20080904; US20070970007P 20070905; US20080043704P 20080409; US20080124121 20080520 | H01L31/042; F24J2/10; H01L31/052 | SKYLINE SOLAR INC [US] | Photovoltaic receiver |
| CN101798879 A 20100811 | CN20091010328 20090209 | E04H1/04; E04B1/00; E04B1/76; E04B2/00; E06B3/00; F03D9/00; F03G7/00; F16K11/00; F24J2/04; G05D23/20 | JIANLIANG YANG | Building with integrated green construction technologies |
| CN101799196 A 20100811 | CN20101134129 20100227 | F24J2/34 | ZONGLOU ZHANG | Novel superficial geothermal energy, solar energy and wind energy integrated building air conditioning system |
| CN101799210 A 20100811 | FR20090000572 20090210 | F24J2/00; F24J2/30; F24J2/46 | WISENET [FR] | Solar heater |
| CN101799211 A 20100811 | CN20091264926 20091209 | F24J2/00; F24H4/02; F24J2/30 | SUZHOU SUNSHINE SOLAR ENERGY CO LTD | Pressure-bearing type solar heat pump water heater |
| CN101799212 A 20100811 | CN20101116885 20100303 | H01L31/058; B23P11/00; F24J2/34 | HUNAN LINENG SCIENCE & TECHNOLOGY CO LTD | Unpowered concentrating recovery device for anti-freezing liquid in energy tower |
| CN101799213 A 20100811 | CN20091010314 20090206 | F24J2/04; F24H4/04; F24J3/06 | SHENYANG JINCHEN WEIYE TECHNOLOGY CO LTD | Solar water heater using wind energy heat pump for auxiliary heating |

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| CN101799214 A 20100811 | CN20081306039 20081208 | F24J2/05; F24J2/10; F24J2/32; H02N6/00 | BEIJING HUANNENG HAICHEN TECHNOLOGY CO LTD; XU BAO AN | Screwed and sealed all-glass heat pipe vacuum heat collecting pipe with built-in photovoltaic cell component |
| CN101799215 A 20100811 | CN20091005769 20090207 | F24J2/38 | LIJUN ZHANG | Quasi-two-dimensional sunlight tracking system with single connecting rod |
| CN101799216 A 20100811 | CN20091014000 20090209 | F24J2/48; C04B35/622; C04B41/87 | SHULIANG CAO | Ceramic powder press-formed combined black ceramic composite ceramic solar panel |
| CN101799217 A 20100811 | CN20081306037 20081208 | F24J2/52; F24J2/05 | BEIJING HUANNENG HAICHEN TECHNOLOGY CO LTD; XU BAO AN | Turning tooth tailstock propped solar vacuum heat collecting pipe |
| CN101799218 A 20100811 | CN20081306038 20081208 | F24J2/52; F24J2/05 | BEIJING HUANNENG HAICHEN TECHNOLOGY CO LTD; XU BAO AN | Heat-insulating turning tooth tailstock component propped and installed on threaded rod of solar vacuum heat collecting pipe |
| CN101799219 A 20100811 | CN20081306040 20081208 | F24J2/52; F24J2/05 | BEIJING HUANNENG HAICHEN TECHNOLOGY CO LTD; BAOAN XU | Heat-insulating turning tooth tailstock component propped and installed on solar vacuum heat collecting pipe |
| CN101802511 A 20100811 | WO2008US07098 20080606; US20070933620P 20070606 | F24J2/07; F24J2/48 | AUSRA INC [US] | Integrated solar energy receiver-storage unit |
| CN101806445 A 20100818 | CN20101135932 20100330 | F24J2/00; F02C6/04; H02N6/00 | UNIV SOUTHEAST | Trough type solar multistage heat utilization device |
| CN101806493 A 20100818 | CN20091203674 20090615 | F24H9/00; F24J2/46 | HAIER GROUP CO LTD; QINGDAO HAIER AIR CONDITIONER GENERAL CO LTD | Anti-freezing structure of outdoor hot water device |

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|---------------------------|---|--|---------------------------|--|
| CN101806495 A 20100818 | US20090388500 20090218; US20090473240 20090527; US20090611873 20091103 | F24J2/05; F24J2/24; F24J2/38; F24J2/54; H02N6/00 | PALO ALTO RES CT INC [US] | Two-part solar energy collection system with replaceable solar collector component |
| CN101806496 A 20100818 | CN20101125893 20100317 | F24J2/42 | YANG MENG | Production device of full-automatic solar water heater |
| CN101806497 A 20100818 | CN20101135922 20100330 | F24J2/05; E06B5/20 | UNIV SOUTHEAST | Solar energy-based combined cycle energy multi-level utilization device |
| CN101806498 A 20100818 | CN20091024755 20090213 | F24J2/05; F24J2/46; F24J2/48 | MINHUI XU | Large vacuum solar heat collecting system |
| CN101806499 A 20100818 | CN20091024530 20090212 | F24J2/16; F24J2/38; F24J2/52 | ZHIHAI LENG | Multistage linking solar energy tracking and receiving device |
| CN101806500 A 20100818 | CN20101141210 20100407 | F24J2/04 | JIAN LI | Connecting method and structure of solar heat collecting device |
| CN101806501 A 20100818 | CN20101131643 20100319 | F24J2/38 | ZONGSHENG XU | Automatic tracking type solar energy focalizing device |
| CN101806502 A 20100818 | CN20101153222 20100414 | F24J2/54 | YV QI | Solar energy collecting system of heliostat |
| CN101806503 A 20100818 | CN20091046204 20090216 | F24J2/46; B23K10/02; B23K15/00; F24J2/48 | GE PAN | Plate type solar energy collector |
| CN101806504 A 20100818 | CN20101019281 20100108 | F24J2/54 | UNIV GUANGDONG TECHNOLOGY | Novel coupling type solar high-temperature heating pipe |
| CN101806505 A 20100818 | CN20101134318 20100329 | F03G6/02; F01K27/00; F03G6/06; F24J2/42 | JIN SHEN | Device for performing centralized control on water heater pipeline |

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|---------------------------|---|--|--|--|
| CN101806506 A 20100818 | CN20101154954 20100426 | F24J2/00; F24H1/00; F24H9/20; F24J2/46 | PEIZHOU HAN | Sliding bearing of reflector frame fascinating disassembling and assembling vacuum heat collection pipe in glass cover |
| CN101806507 A 20100818 | CN20091046203 20090216 | F24J2/48; B23K9/09; B23K10/02; B23K15/00; B23K35/22; F28F1/40; F28F13/18 | GE PAN | Transparent finned solar energy collecting tube |
| CN101806508 A 20100818 | CN20101116609 20100226 | F24J2/36; F24J2/24 | BEIJING TIANRUIXING VACUUM TECHNOLOGY DEV CO LTD | High temperature solar energy selective absorption coating and preparation method thereof |
| CN101806509 A 20100818 | CN20101157219 20100423 | F24J2/46; F24J2/30 | SHENGLI LIU | Straight-through vacuum heat collecting tube |
| CN101806510 A 20100818 | CN20091096146 20090213 | F24J2/51 | FENG SHENGFENG; ZHEJIANG SHENTAI SOLAR ENERGY CO LTD | Vertical thermal insulation wall |
| CN101806511 A 20100818 | CN20091046205 20090216 | F24J2/52 | GE PAN | Device for installing and fixing solar heat collector and connecting and positioning frame |
| CN101806514 A 20100818 | CN20101121510 20100310 | F24J2/42; F01K17/04; F01K27/00; F03G6/00; F03G6/02 | USTC UNIV SCIENCE TECH CN | Composite solar photovoltaic hot-water cold supply and heating system for building |
| CN101809377 A 20100818 | WO2008US75737 20080909; US20070852854 20070910; US20080207346 20080909 | F24J2/06; H01L31/052 | BANYAN ENERGY INC | Compact optics for concentration, aggregation and illumination of light energy |

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|---------------------------|---|---|----------------------------------|---|
| CN101809811 A 20100818 | WO2008AU01092 20080730; AU20070904057 20070730 | H01Q1/12; E04B1/19; E04H12/10; F24J2/52 | STEPHEN KANEFF | Improved support frame for the dish of a large dish antenna |
| CN101812200 A 20100825 | CN20091247222 20091228 | C08L53/00; C08K5/01; C08K5/092; C08K5/098; C08K5/103; C08K5/18; C08K5/20; F24H9/00; F24J2/46 | SHANGHAI KINGFA SCI & TECH CO | Alpha-crystal form homopolymerized polypropylene composition for water-heater inner containers and preparation method thereof |
| CN101812201 A 20100825 | CN20091247224 20091228 | C08L53/00; C08K5/01; C08K5/098; C08K5/103; C08K5/134; C08K5/20; C08K5/526; F24H9/00; F24J2/46 | SHANGHAI KINGFA SCI & TECH CO | Polypropylene composition for water-heater inner containers and preparation method thereof |
| CN101812213 A 20100825 | CN20091247223 20091228 | C08L23/12; C08K5/098; C08K5/103; C08K5/134; C08K5/20; C08K5/526; F24H9/00; F24J2/46 | SHANGHAI KINGFA SCI & TECH CO | Alpha-crystal form polypropylene composition for water-heater inner containers and preparation method thereof |

| Número do Documento | Prioridade(s) | Classificação Internacional | Depositante | Título |
|----------------------------|---------------------------|---|--|---|
| CN101813038 A 20100825 | CN20101146153 20100413 | F24J2/05; F24J2/10 | SHANGHAI ZHAOYANG NEW ENERGY SCIENCE AND TECHNOLOGY CO LTD | Mirror focusing automatic co-rotational type solar thermal machine power generating system |
| CN101813349 A 20100825 | CN20091010437 20090224 | F24F5/00; F24J2/05 | YE HU | Solar air conditioner |
| CN101813354 A 20100825 | CN20101144377 20100315 | F24J2/08 | YUE WANG | Green air regulation system |
| CN101813370 A 20100825 | CN20091006562 20090219 | F24H1/20; F24H4/04; F24H9/20; F24J2/00 | SUNTECH SOLAR TECHNOLOGY CO LTD | Water storing type electric water heater and heating method thereof |
| CN101813377 A 20100825 | CN20101151898 20100416 | H01L31/042; F24J2/04; H01L31/058 | ZHONGDONG CHEN | Energy-saving environmentally-friendly wall-hanging solar device |
| CN101813378 A 20100825 | CN20101154644 20100426 | F16L59/16; F24J2/46 | SHANGHAI JITE ENTPR CO LTD; KETING ZHENG | Method for modifying general gas engine or electric water heater into solar water heater |
| CN101813379 A 20100825 | CN20091118016 20090221 | F24J2/12; F24J2/18; F24J2/46 | CAIDE TAO | Solar light-condensing water still |
| CN101813380 A 20100825 | CN20091118018 20090221 | F24J2/12; F24J2/18 | CAIDE TAO | Multipurpose solar condenser |
| CN101813381 A 20100825 | CN20091118017 20090221 | F24J2/18; F24J2/52 | CAIDE TAO | Solar condensation water still |
| CN101813382 A 20100825 | CN20091118042 20090219 | F24J2/24 | KECHUANG DAI | Energy-saving device and method for hot water boiler |
| CN101813383 A 20100825 | CN20091230246 20091114 | F24J2/24; F24J2/05; F24J2/46 | ZIBO JUNHE PATENT TECHNOLOGY DEV CO LTD | Heating installation utilizing solar |
| CN101813384 A 20100825 | CN20091230979 20091127 | F24J2/30 | SUMING LI | Unpressurized wall hanging split type solar water heater |

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|---------------------------|---------------------------|--|--|--|
| CN101813385 A 20100825 | CN20091261189 20091221 | F24H9/20; F24J2/46 | SICHUAN SHENGYANG SOLAR ENERGY APPLIED TECHNOLOGY CO LTD | Separated type heat-pipe plate solar collector and special working refrigerant thereof |
| CN101813386 A 20100825 | CN20101133988 20100224 | F24J2/30; F24D5/06 | YUMING XING | Solar heat supply system, application mode thereof and hot water supply device |
| CN101813387 A 20100825 | CN20101157788 20100427 | C02F3/00; B63B22/00; F24J2/00 | YIKEBO ENERGY SCIENCE AND TECHNOLOGY SHANGHAI CO LTD | Sun tracker of solar collector |
| CN101813388 A 20100825 | CN20091037280 20090219 | F24J2/40 | ZONOPO INTELLIGENT TECHNOLOGY CO LTD | Solar heat cycle intelligent control system |
| CN101813389 A 20100825 | CN20091046490 20090224 | F24J2/46 | GE PAN | Device for connecting solar heat collector cases |
| CN101813390 A 20100825 | CN20101136363 20100331 | F24J2/38; F24J2/10; F24J2/24; F24J2/40; F24J2/46 | KUNMING DINGHAO SOLAR ENERGY CO LTD | Separated type solar heat storage water tank |
| CN101813391 A 20100825 | CN20101141290 20100330 | F22B1/00; C02F1/14; F24F5/00; F24J2/00 | RENXIONG HUANG | Connecting piece of solar heat collecting device |
| CN101813392 A 20100825 | CN20101170719 20100427 | F24J2/48 | YIAN FENG | Elastic tube of solar vacuum tube |
| CN101813393 A 20100825 | CN20091230981 20091127 | F24J2/48 | SUMING LI | Heating sleeve for solar drinking hot water |
| CN101813394 A 20100825 | CN20101141127 20100404 | F24J2/38; H01L31/042 | DELONG YAO | High thermal conductive fin for heat collector of solar water heater |
| CN101813395 A 20100825 | CN20101170727 20100427 | F24J2/48 | YIAN FENG | Multi-stage elastic heat tube in solar vacuum tube |
| CN101813400 A 20100825 | CN20101112120 20100223 | F24J2/48; F24J2/28 | LIMING FU | Heating and cooling system for solar house |

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|---------------------------|---|--|---|--|
| CN101815908 A 20100825 | WO2008JP66639 20080916; JP20070257817 20071001 | F24J2/04; A01G7/00; A01G13/02; A01G27/00; C02F1/14; F24J2/10; F24J2/24 | MITAKA KOKI KK [JP] | Solar heat utilization system and plant cultivation employing it, and domestic animal breeding method employing it |
| CN101815909 A 20100825 | WO2008SE50891 20080724; SE20070001860 20070815 | F24J2/42; F03G6/00; F24J2/04; F24J2/50; F25B27/00 | SOLTECH ENERGY SWEDEN AB [SE] | An arrangement for generating electric energy |
| CN101816279 A 20100901 | CN20101162792 20100405 | F24J2/46 | FULAI YAO | Automatic irrigation device for plants on both sides of road in desert area |
| CN101818114 A 20100901 | CN20091117401 20090729 | C12M1/107; C12M1/02; F24J2/34 | UNIV LANZHOU TECH | Annually constant and stable methane production system by solar heating |
| CN101818941 A 20100901 | CN20101152778 20100422 | F24J2/34; F24J2/46 | HARBIN INST OF TECHNOLOGY | Air heated anti-freezing solar energy collector system |
| CN101818942 A 20100901 | CN20101180100 20100520 | F24J2/06; F24J2/10; F24J2/24; F24J2/46 | ZHEJIANG SIDITE NEW ENERGY CO LTD | Pressure-bearing solar water heater |
| CN101818943 A 20100901 | CN20101178012 20100520 | F24J2/48; C23C28/00; G02B1/11; H01L31/0232 | FUNG GIN DA ENERGY TECHNOLOGY CO LTD | Sun-oriented light concentrating heat energy generation device |
| CN101818944 A 20100901 | CN20101131481 20100224 | H01L31/042; F24J2/10 | DANLIN WANG | Indirectly-heating residential heating system |
| CN101818945 A 20100901 | CN20101153430 20100421 | F24J2/24; F24J2/05; F24J2/46; F24J2/48 | UNIV SOUTHEAST | Heat pipe type composite parabolic heat collector arranged in east-west direction |

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|---------------------------|--|--|--|---|
| CN101818946 A 20100901 | CN20091174991 20091027 | F24J2/34; F24J2/46 | ZHENG REN | Easily-operated solar furnace |
| CN101818947 A 20100901 | CN20101166200 20100415 | F24J2/38; H01L31/042 | ZHENGPIG LAI | Solar oil heat conducting and supplying device |
| CN101818948 A 20100901 | CN20101166767 20100510 | F24J2/04 | WENYING CUI | Solar heat-storage heating device for buildings in high-latitude regions |
| CN101818949 A 20100901 | CN20101145237 20100412 | F24J2/46; F24J2/05; F24J2/24 | CHEN JUN | Full automatic solar water heater watering controller |
| CN101818950 A 20100901 | CN20091010461 20090226 | F24J2/46 | WEICHANG LUAN | Device for conveniently replacing sensor of solar water heater |
| CN101818951 A 20100901 | CN20101128656 20100318 | E04D13/18; F24J2/32; F24J2/48 | UNIV WUHAN TECH | Bushing-type high temperature heat storage device applied to solar heat utilization |
| CN101818952 A 20100901 | CN20101155220 20100419 | F24J2/52 | DEPENG LIU | Emptying, anti-freezing and unfreezing device for solar pipe |
| CN101818953 A 20100901 | CN20101157316 20100428 | F24J2/05; F16L7/00; F16L37/091; F24J2/26; F24J2/46 | CHANGQIAO LI; YICHANG SANXIA NEW ENERGY EQUIPMENT CO LTD | Incubator with foaming layer provided with vacuum glass tube and manufacture method thereof |
| CN101818954 A 20100901 | CN20081127318 20071213 | F24J2/48; F24J2/00; F24J2/46 | XIAOFU LUO | Water heater system with solar green house effect |
| CN101821501 A 20100901 | WO2008IB01771 20080704; IT2007TO00088U 20070704 | F03G6/00; F24J2/14; F24J2/34 | BIOSOLAR FLENCO GROUP S R L | Modular assembly for the production and accumulation of solar energy |
| CN101825072 A 20100908 | CN20101153131 20100416 | F24J2/00 | UNIV HUAZHONG SCIENCE TECH | Trough-dish combined solar thermal power generation system with fixed focus |
| CN101825309 A 20100908 | CN20091014686 20090306 | F24D7/00; F24J2/00 | ZHENCHEN WANG | Solar energy thermal conductance warmer |

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|---------------------------|---|--|---|--|
| CN101825336 A 20100908 | CN20101173025 20100517 | F24J2/46 | JIANGSU GOMON SCIENCE & TECHNOLOGY DEV CO LTD | Multi-energy laminated inner container thermal storage tank |
| CN101825343 A 20100908 | CN20091061037 20090305 | F24J2/00; F24J2/46 | XIAOJUAN WAN | High-efficiency solar device |
| CN101825344 A 20100908 | CN20091061039 20090305 | F24J2/00; F24J2/40; F24J2/54 | XIAOJUAN WAN | Solar heat collector |
| CN101825345 A 20100908 | CN20101175105 20100513 | G02B5/08; F24J2/46; H01L31/04; H02N6/00 | ANHUI TONGLING QINGHUABAO ENERGY SOURCES EQUIPMENT CO LTD | Antifreezing method of flat plate solar water heater |
| CN101825346 A 20100908 | CN20091061038 20090305 | F24J2/04; F24J2/46 | XIAOJUAN WAN | Solar water heater |
| CN101825347 A 20100908 | CN20101182855 20100521 | F24H9/00; F24H9/02; F24J2/46 | SHANDONG ZHONGNENG NEW ENERGY RES INST | Solar heat collector |
| CN101825348 A 20100908 | CN20101182982 20100522 | F24J2/46 | WEIGUO YAO; ZHEJIANG MEIDIYA NEW ENERGY TECHNOLOGY CO LTD | Focusing flat plate solar heat collector |
| CN101825349 A 20100908 | JP20040253499 20040831; JP20040326788 20041110; JP20050059744 20050303 | F24J2/24; F24J2/06; F24J2/23 | TOKYO INST TECH | Sunlight heat collector and related system |
| CN101825350 A 20100908 | CN20101152751 20100422 | F24J2/08; G02B3/00; H01L31/052 | HARBIN INST OF TECHNOLOGY | Heat accumulating type anti-freeze solar heat collector system |

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|----------------------------|---------------------------|-------------------------------------|---|--|
| CN101825351 A 20100908 | CN20101167319 20100510 | F24J2/02; A47J41/00; F24J2/52 | CHENGDU QINGFU ENVIRONMENTAL PROT TECHNOLOGY CO LTD | Novel telescopic solar collector |
| CN101825352 A 20100908 | CN20091127305 20090303 | F24J2/38 | NENGCAI LU | Tracking concentrating solar receiving device |
| CN101825353 A 20100908 | CN20091010577 20090305 | F24J2/40 | WEICHANG LUAN | Energy-saving solar water heater sensor |
| CN101825354 A 20100908 | CN20101166526 20100427 | F24J2/38; H02N6/00 | ZESHAN XU | Freeze-proof type solar flat plate heat collector |
| CN101825355 A 20100908 | CN20101173021 20100517 | F24J2/24; F24J2/05; F24J2/46 | JIANGSU GOMON SCIENCE & TECHNOLOGY DEV CO LTD | Horizontal jacket water tank |
| CN101825356 A 20100908 | CN20101173036 20100517 | F24H9/00; F24J2/46 | JIANGSU GOMON SCIENCE & TECHNOLOGY DEV CO LTD | Horizontal finned water tank |
| CN101825357 A 20100908 | CN20101140310 20100331 | F24J2/26; F24J2/48; F24J2/50 | WANG XIAOLING; JIANZHUANG ZHAO | Solar heat collector |
| CN101825358 A 20100908 | CN20101170705 20100427 | F24J2/46; F24J2/48 | YIAN FENG | Double-layer elastic heat tube or heat conducting oil tube in solar vacuum tube |
| CN101825359 A 20100908 | CN20101170725 20100427 | F24J2/46 | YIAN FENG | Elastic heat tube in solar vacuum tube |
| CN101825361 A 20100908 | CN20091060990 20090306 | F24J3/06; F24J2/46; F24J2/48 | WUHAN KAIDI HOLDING INVEST CO LTD | Seasonal low-level energy surface water heat storage method and device |
| CN101825373 A 20100908 | CN20101199538 20100531 | F24J2/46 | HAIKOU TIANLENG SOLAR POWER CO LTD | Solar hot-water, air-conditioning and construction integrated system |

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|---------------------------|---------------------------|--|---|--|
| CN101826819 A 20100908 | CN20101142861 20100409 | F24J2/10; F24J2/38; F24J2/52; H01L31/0232; H01L31/052; H01L31/058 | BEIJING TIANPU SOLAR ENERGY INDUSTRY CO LTD | Solar energy-utilizing device capable of synchronously generating and outputting electric energy and thermal energy |
| CN101830634 A 20100915 | CN20101190374 20100603 | C03B23/057; F24J2/46 | HIMIN SOLAR CO LTD | High-frequency electric sealing device for solar vacuum tubes and sealing method thereof |
| CN101831996 A 20100915 | CN20101126648 20100318 | F24J2/12 | WUXI YIKAI SHUNDE S & T CO LTD | Modularized solar energy collecting building component |
| CN101832538 A 20100915 | CN20101130187 20100624 | F22B1/00; F22B33/00; F22G1/00; F24J2/00 | SP LONGYUAN POWER TECHNOLOGY & ENGINEERING CO LTD | Method for generating power with solar energy by jointly operating fossil fuel boiler and newly- established solar energy boiler |
| CN101832587 A 20100915 | CN20091014700 20090313 | F24D5/02; F24J2/04; F24J2/24 | LIANCAI ZHANG | Solar fan heater |
| CN101832588 A 20100915 | CN20091019801 20090313 | F24D5/02; F24D11/00; F24J2/04; F24J2/24 | LIANCAI ZHANG | Solar heat-exchange and energy-storage fan heater |
| CN101832650 A 20100915 | CN20091025304 20090309 | F24J2/00; F24J2/05; F24J2/24; F24J2/46 | YUGUI ZHANG | Wall-hanging solar water heater |
| CN101832651 A 20100915 | CN20101167056 20100510 | F24J2/34; F24J2/32; F24J2/46 | MAOLIN LIU | Solar thermos bottle |
| CN101832652 A 20100915 | CN20101168983 20100511 | F24J2/24; F24J2/40 | GUOPING TANG | Automatic tracking solar cooker, solar water heater and solar photovoltaic generating system |
| CN101832653 A 20100915 | CN20091127520 20090309 | F24J2/04; F24J2/48 | KECHUANG DAI | Device and method of film-type solar water heater |
| CN101832654 A 20100915 | CN20091019803 20090313 | F24J2/05; F24J2/46 | LIANCAI ZHANG | Solar evacuated air collector |

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|---------------------------|---------------------------|---|---|--|
| CN101832655 A 20100915 | CN20101167150 20100415 | F24J2/34; C02F1/14; F24F5/00; F24J2/02; F24J2/05; F24J2/10; F24J2/30; F24J2/46 | JIANGTAO XUE | Wall type solar water heater |
| CN101832656 A 20100915 | CN20101160327 20100421 | F24J2/32; F24J2/12; F24J2/52 | QINGDONG LIN | Solar water heater |
| CN101832657 A 20100915 | CN20101182233 20100516 | F24J2/52; F24J2/38; H01L31/042 | QINGDONG LIN | Water-storing solar water heater |
| CN101832658 A 20100915 | CN20101190861 20100528 | F24J2/00; F24J2/10; F24J2/12; F24J2/24; F24J2/48 | DENGMA HAN | Solar water heater |
| CN101832659 A 20100915 | CN20101138776 20100331 | F24J2/46; F24J2/00; F24J2/40 | JIANGSU CHUANGLAN SOLAR AIR CONDITIONER CO LTD | High-efficiency flat type solar heat collector and solar water heater |
| CN101832660 A 20100915 | CN20091300788 20090310 | F24J2/38 | BEIJING WISWORD HI TECH CO LTD | System and array for tracking solar energy linearly |
| CN101832661 A 20100915 | CN20101159630 20100429 | F24J2/04; F24J2/24 | JIANGSU SUNSHORE SOLAR ENERGY INDUSTRY CO LTD | Fixed terminal-free solar collector remote monitoring system |
| CN101832662 A 20100915 | CN20091019802 20090313 | F24J2/46 | LIANCAI ZHANG | Solar evacuated air collector tube |
| CN101832663 A 20100915 | CN20091156647 20091230 | F24J2/08 | RUIHUA ZHANG | Pipe defroster of solar water heater and using method |
| CN101832664 A 20100915 | CN20101162351 20100505 | F24J2/54 | SHENGLI LIU | Dish solar coil type vacuum heat collector |

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|---------------------------|---------------------------|--------------------------------------|---|--|
| CN101832665 A 20100915 | CN20101173455 20100517 | F24J2/46 | HANSONG YU | Water supply valve for solar water heater |
| CN101832666 A 20100915 | CN20101180872 20100504 | F24J2/00; F03D9/00 | YANBIN ZHAO | Built-in water delivery pipe emptier |
| CN101832667 A 20100915 | CN20101185983 20100528 | F24J2/06; F24J2/08; G02B6/00 | YONGSHENG HAN | Anti-freezing intelligent control device for solar water heater |
| CN101832668 A 20100915 | CN20101186675 20100531 | F24J2/04; F24D3/08; F24J2/30 | BEIJING JUNCHUANG YIJIAREN SOLAR ENERGY EQUIPMENT CO LTD; LIU SHENGPU | Siphon water supply method for solar water heater |
| CN101832669 A 20100915 | CN20101188235 20100524 | F24J2/46; F24J2/40 | GUANGDONG YUEJIA SOLAR ENERGY CO LTD | Single-floating ball water flowing device for heat-preservation water box of dual-liner solar water heater |
| CN101832670 A 20100915 | CN20101188247 20100524 | F24J2/46 | GUANGDONG YUEJIA SOLAR ENERGY CO LTD | Dual-floating ball water flowing device for heat-preservation water box of dual-liner solar water heater |
| CN101832671 A 20100915 | CN20101186187 20100528 | F24J2/46 | LANZHOU DC TECHNOLOGY HOLDINGS CO LTD; LANZHOU DC VACUUMTECHNOLOGY HOLDINGS CO LTD | Solar collector tube |
| CN101832672 A 20100915 | CN20101132092 20100325 | E04D13/18; E04B7/00; E04D13/14 | GUOBIN XU | Solar energy collecting grid structure |

| Número do Documento | Prioridade(s) | Classificação Internacional | Depositante | Título |
|---------------------------|--|--|--|---|
| CN101836055 A 20100915 | WO2008US10230 20080827; US20070007926P 20070827; US20080012821 20080205; US20080012920 20080205; US20080012829 20080205 | F24J2/16; F24J2/07; F24J2/24; F24J2/54 | AUSRA INC [US] | Linear fresnel solar arrays |
| CN101839224 A 20100922 | CN20101131000 20100316 | F24J2/38 | CHENGHUI WANG | Solar-powered thermal generating set |
| CN101839377 A 20100922 | CN20101178957 20100514 | F24J2/00; F24J2/24; F24J2/46; F24J2/52 | GUANGDONG LIANSU TECHNOLOGY IND CO LTD | Solar-powered hot water conveying pipeline and manufacturing method thereof |
| CN101839554 A 20100922 | CN20091030317 20090319 | F24J2/00; F24J2/40 | JIANGSU HUAXIA POWER COMPLETE EQUIPMENT CO LTD | Solar-powered air conditioner and water heater-integrated device |
| CN101839555 A 20100922 | CN20091030318 20090319 | F24J2/00; F24J2/40 | JIANGSU HUAXIA POWER COMPLETE EQUIPMENT CO LTD | Host machine for solar-powered air conditioner and water heater-integrated device |
| CN101839556 A 20100922 | CN20091301044 20090322 | F24J2/00; F24J2/38; F24J2/46; F24J2/52; G05D3/20 | BEIJING WISWORD HI TECH CO LTD | Solar linear zooming and unidirectional tracking vacuum tube utilization system |
| CN101839557 A 20100922 | CN20101178663 20100514 | F24J2/52; F24J2/00 | MIAOZHU LUO; JINXUAN YAN; ZHUOLI YAN; ZHUOSHENG YAN | Integral solar flat-plate heat collector |

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|---------------------------|---------------------------|--|---|--|
| CN101839558 A 20100922 | CN20091301038 20090322 | F24J2/02; F24J2/38; F24J2/46; F24J2/52; G02B3/00; G02B3/08; G02B5/08; G02B7/182 | BEIJING WISWORD HI TECH CO LTD | Solar multi-directional tracking solar cooker |
| CN101839559 A 20100922 | CN20091301046 20090322 | F24J2/02; F24J2/38; F24J2/46; F24J2/52; G05D3/20 | BEIJING WISWORD HI TECH CO LTD | Solar linear zooming and unidirectional tracking solar cooker |
| CN101839560 A 20100922 | CN20091019956 20090320 | F24J2/04; F24J2/46; F24J2/48; F24J2/50 | QINLE GAO | Solar hot-wind heat collector constructing device |
| CN101839561 A 20100922 | CN20091301036 20090322 | F24J2/05; F24J2/24; F24J2/32; F24J2/38; F24J2/40; F24J2/52; G02B3/00; G02B3/08; G02B5/08; G02B7/182 | BEIJING WISWORD HI TECH CO LTD | Solar multi-directional tracking vacuum tube utilization system |
| CN101839562 A 20100922 | CN20101122774 20100312 | F24J2/48; F24J2/05; F24J2/24 | HAINING YIMANGE SOLAR ENERGY S & T CO LTD | Preparation method, devices and product of heat-collecting element of inner glass tube with metal absorber |

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|---------------------------|---|--|---|---|
| CN101839563 A 20100922 | AU20040900788 20040217; AU20040900786 20040217; AU20040900787 20040217 | F24J2/10; F24J2/07; F24J2/16; F24J2/24; F24J2/46; F24J2/48; F24J2/50; F24J2/54 | SOLAR HEAT AND POWER PTY LTD | Multi-tube solar collector structure |
| CN101839564 A 20100922 | CN20101153422 20100421 | F24J2/06 | UNIV SOUTHEAST | Wall-hanging-type heat collector adopting half-edge compound parabolic concentrating devices |
| CN101839565 A 20100922 | CN20101203267 20100620 | F24J2/14; F24J2/24; F24J2/46 | XIAOCHUN MA | Temperature control solar water heater |
| CN101839566 A 20100922 | CN20091301037 20090322 | F24J2/20; F24J2/08; F24J2/10; F24J2/32; F24J2/34; F24J2/38; F24J2/40; F24J2/48; F24J2/52 | BEIJING WISWORD HI TECH CO LTD | Solar multi-directional tracking plane utilization system |
| CN101839567 A 20100922 | CN20101139082 20100402 | B60P3/335; F24J2/05; F24J2/24; F24J2/34; H02J7/00 | HAINING YIMANGE SOLAR TECHNOLOGY CO LTD | Preparation method and product of heat collection-exchange integral solar heat utilization device |
| CN101839568 A 20100922 | CN20101153425 20100421 | F24J2/12; F24J2/46 | UNIV SOUTHEAST | Solar directly-heated solution heat-collector and solution directly-heated heating method |
| CN101839569 A 20100922 | CN20091301039 20090322 | F24J2/32; F24J2/08; F24J2/10; F24J2/38; F24J2/40; F24J2/52 | BEIJING WISWORD HI TECH CO LTD | Solar multi-directional tracking heat pipe utilization system |

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|---------------------------|---------------------------|--|--|---|
| CN101839570 A 20100922 | CN20091301033 20090322 | F24J2/38; F24J2/08; F24J2/10; F24J2/40; F24J2/52 | BEIJING WISWORD HI TECH CO LTD | Solar linear zooming and unidirectional tracking plane unitization system |
| CN101839571 A 20100922 | CN20091301047 20090322 | F24J2/38; F24J2/46; F24J2/52; G05D3/20 | BEIJING WISWORD HI TECH CO LTD | Solar linear multi-mirror zooming and unidirectional tracking system and application |
| CN101839572 A 20100922 | CN20091301032 20090322 | F24J2/42; F24J2/38; F24J2/52; G02B3/00; G02B3/08; G02B5/08; G02B7/182; G05D3/20 | BEIJING WISWORD HI TECH CO LTD | Solar linear zooming and unidirectional tracking heat pipe utilization system |
| CN101839573 A 20100922 | CN20091047617 20090316 | F24J2/46; C03B23/047 | SHI KANCHAO | Preparation method and product of vacuum heat-collecting element inserting reducing cover glass tube in heat pipe |
| CN101839574 A 20100922 | CN20091047618 20090316 | F24J2/46; C03B23/047 | SHI KANCHAO | Cover glass tube heat-transfer heat-collection element necking section direct forming method product and equipment thereof |
| CN101839575 A 20100922 | CN20101142316 20100325 | F24J2/54 | CHANGZHOU LONGTENG SOLAR ENERGY HEATING EQUIPMENT CO LTD | Inner tube suitable for trench type thermal-collecting tube of solar thermal power generation and film coating method thereof |
| CN101839576 A 20100922 | CN20101039151 20100105 | F24J2/48 | YUNNAN YUXI JIALI SOLAR EQUIPMENT CO LTD | Process for producing solar heat collection strip anode coating film |
| CN101839577 A 20100922 | CN20101122764 20100312 | F24J2/54 | HAINING YIMANGE SOLAR ENERGY S & T CO LTD | Manufacturing method of heat collection element of selective absorption film with slightly uneven surface |

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|---------------------------|---------------------------|---|--|--|
| CN101839578 A 20100922 | CN20101123873 20100312 | F24J2/05; F24J2/46 | HAINING YIMANGE SOLAR ENERGY S & T CO LTD | Preparation method and product of vacuum heat-collecting element of inner glass tube covered, patched and sprayed with metal |
| CN101839585 A 20100922 | CN20091010821 20090320 | F25B27/00; F24D3/08; F24D3/18; F24D17/00; F24F5/00; F24J2/00; F25B13/00 | DALIAN ZHONGXING TECHNOLOGIES DEV CO LTD | Solar energy-air source heat pump composite system suitable for microthermal climate |
| CN101839616 A 20100922 | CN20091019935 20090320 | F26B9/06; F24J2/00; F26B3/06; F26B21/00 | SHEN XIAOLI | Recovery type solar drying device |
| CN101839617 A 20100922 | CN20091301034 20090322 | F26B9/06; F24J2/38; F24J2/52; F26B3/28; F28D15/02 | BEIJING WISWORD HI TECH CO LTD | Solar multi-directional tracking solar energy drying equipment |
| CN101839618 A 20100922 | CN20091301043 20090322 | F26B9/06; F24J2/38; F24J2/52; F26B3/28; F28D15/02 | BEIJING WISWORD HI TECH CO LTD | Solar linear zooming and unidirectional tracking solar energy drying equipment |

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|---------------------------|---|--|---|---|
| CN101840050 A 20100922 | CN20091301045 20090322 | G02B7/182; F24J2/04; F24J2/08; F24J2/32; F24J2/38; G02B5/08; G05D3/00; G05D3/20; H01L31/052; H02N6/00 | BEIJING WISWORD HI TECH CO LTD | Solar linear multi-mirror zooming and multi-directional tracking system and application |
| CN101840238 A 20100922 | CN20091129447 20090320 | G05D25/02; F24J2/00 | KAIZHAI GROUP CO LTD | Optical energy management method and system |
| CN101841259 A 20100922 | CN20091127679 20090319 | H02N6/00; F03D9/00; F24J2/00 | WEIHAI FANGLIN AIR CONDITIONING EQUIPMENT CO LTD | Solar energy-wind energy-building integration system |
| CN101841267 A 20100922 | CN20091264199 20091231 | F24J2/48; B32B9/04; B32B15/04; C23C14/35; C23C14/54 | ZHANGSHENG YUAN | High-energy module for solar power heat-collecting device |
| CN101842644 A 20100922 | WO2008JP69725 20081030; JP20070284110 20071031 | F24J2/38 | MITSUI SHIPBUILDING ENG | Solar light tracking sensor direction setting/measuring/re-adjusting method and solar light collecting device |
| CN101846396 A 20100929 | CN20101161657 20100504 | F24J2/52; H01L31/048 | UNIV KUNMING SCIENCE & TECH | Solar energy and wind energy heat replenishing device for high-rise buildings |
| CN101846397 A 20100929 | CN20101182135 20100525 | F24J2/10; G02B5/10; G02B7/183 | ZONOPO INTELLIGENT TECHNOLOGY CO LTD | Solar energy-wind energy-air energy comprehensive hot water supply system and implementation method thereof |
| CN101846398 A 20100929 | CN20091048473 20090327 | F24J2/05; F24J2/24; F24J2/34; F24J2/46 | SHANGHAI GENERAL ENERGY TECHNOLOGY CO LTD | Solar phase-change heat collecting and storing tube |

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|---------------------------|---------------------------|---|--|--|
| CN101846399 A 20100929 | CN20091048477 20090327 | F24J2/05; F24J2/24; F24J2/34; F24J2/40; F24J2/46 | SHANGHAI GENERAL ENERGY TECHNOLOGY CO LTD | Solar phase-change heat accumulation water heater with overheating protection device |
| CN101846400 A 20100929 | CN20101203069 20100609 | F24J2/05; F24J2/40; F24J2/46 | DALIAN SIEVERT TESTING EQUIPMENT CO LTD | Single-working medium pressure-bearing circulated layered heat-storage split solar water heater with glass heat collecting pipes |
| CN101846401 A 20100929 | CN20101203233 20100611 | F24J2/05; F24J2/46 | HEFEI RONGSHIDA SOLAR ENERGY SCIENCE & TECHNOLOGY CO LTD | Solar water heater with vacuum pipe |
| CN101846402 A 20100929 | CN20101188133 20100528 | F24J2/00; F24J2/10; F24J2/24; F24J2/38; F24J2/46; F24J2/50 | YIKEBO ENERGY TECHNOLOGY SHANGHAI CO LTD | Fresnel solar collector |
| CN101846403 A 20100929 | CN20091136874 20071213 | F24J2/20; E04D13/18; F24J2/48 | XIAOFU LUO | Solar greenhouse effect water heating plate system |
| CN101846404 A 20100929 | CN20101184040 20100527 | F24J2/00; H01L31/04 | UNIV BEIJING TECHNOLOGY | Porous material solar energy air heat-collecting device |
| CN101846405 A 20100929 | CN20091048479 20090327 | F24J2/34; F24J2/05; F24J2/24; F24J2/46 | SHANGHAI GENERAL ENERGY TECHNOLOGY CO LTD | Solar phase change thermal storage water heater |
| CN101846406 A 20100929 | CN20101173595 20100517 | F24J2/46; F16K21/18; F16K31/53 | SHANDONG WEITE ENVIRONMENT CO LTD | Trough type solar heat collector, manufacture method thereof and solar heat utilization system |
| CN101846407 A 20100929 | CN20091038334 20090327 | F24J2/40; F24J2/00; G05B19/04; G05D23/00 | DANLIN WANG | Time-interval control method of mixed-energy hot water system |

| Número do Documento | Prioridade(s) | Classificação Internacional | Depositante | Título |
|----------------------------|---------------------------|---|---|--|
| CN101846408 A 20100929 | CN20091048480 20090327 | F24J2/46; F24J2/00; F24J2/34; F24J2/40 | SHANGHAI GENERAL ENERGY TECHNOLOGY CO LTD | Water-break overheat protector and solar phase-change heat accumulation water heater with same |
| CN101846409 A 20100929 | CN20101192528 20100604 | F24J2/46; F24J2/20 | ZESHAN XU | Plate core for flat-plate solar collector |
| CN101846410 A 20100929 | CN20101194532 20100608 | F24J2/46 | QIKUN ZHANG | Balcony wall-hanging solar water tank |
| CN101846411 A 20100929 | CN20101200330 20100613 | F24J2/46 | DUANQIAO ZHANG | Solar heat storage units and solar water heater without water tank consisting of same |
| CN101846412 A 20100929 | CN20101227278 20100715 | F24J2/46 | HARBIN DEGUANG NEW ENERGY CO LTD | Circulating water anti-freezing system for solar heat collector |
| CN101846787 A 20100929 | CN20091301055 20090323 | G02B7/182; F24J2/02; F24J2/04; F24J2/08; F24J2/32; F24J2/38; G02B5/08; G05D3/20; H02N6/00 | BEIJING WISWORD HI TECH CO LTD | Solar linear lens zoom tracking system and application |
| CN101846788 A 20100929 | CN20091301057 20090323 | G02B7/182; F24J2/02; F24J2/04; F24J2/08; F24J2/32; F24J2/38; G02B5/08; G05D3/20; H02N6/00 | BEIJING WISWORD HI TECH CO LTD | Solar energy distributed linear solar optical lens tracking system and application |
| CN101847314 A 20100929 | CN20101163986 20100428 | F24J2/46 | MING XIN | Signal transmission method and transmission device for solar water heater |

| Número do Documento | Prioridade(s) | Classificação Internacional | Depositante | Título |
|---------------------------|--|--|---|---|
| CN101849145 A 20100929 | WO2006US60083 20061019; US20050728245P 20051019 | F24J2/00 | CRUZ ALUIZIO M | Distributive optical energy system |
| CN101850741 A 20101006 | CN20101138551 20100402 | F24J2/14 | SHENGLI LIU | Solar mobile vehicle for living |
| CN101851576 A 20101006 | CN20091111399 20090402 | C12M1/107; F24J2/00 | MENGZHU ZHANG | Building method of hydraulic-type solar marsh gas tank with composite material |
| CN101851991 A 20101006 | CN20101212608 20071107 | E04D13/18; F24J2/46 | SHULIANG CAO | Ceramic solar roof hot-water container |
| CN101852489 A 20101006 | CN20101184124 20100510 | F24J2/36; F24J2/40; F24J2/46 | TAILAI XIAN | Technique of water supply, heat supply and cold supply power plant by trans-critical carbon dioxide to absorb air, water and solar heat |
| CN101852492 A 20101006 | CN20101178906 20100521 | F24J2/02; A47J27/04; F24J2/05 | ZHENG YI FENG | Telescopic connected high-efficiency dual-purpose water tank |
| CN101852496 A 20101006 | CN20101113608 20100225 | F25B5/02; F24J2/05; F24J2/10; F25B7/00; F25B9/08; F25B29/00; F25B30/02 | HAERBIN KAIEN TECHNOLOGY DEV CO LTD | Multipurpose solar water heater |
| CN101852497 A 20101006 | CN20101115465 20100226 | F24J2/50; F24J2/24; F24J2/46; F24J2/48 | GUANGDONG LIANSU TECHNOLOGY IND CO LTD | Polymer-based solar collector |
| CN101852498 A 20101006 | CN20081306768 20081231 | F24J2/05; F24J2/24; F24J2/46 | BEIJING HIKEEN TECH CO LTD; BAOAN XU | Solar collector with necked long-diameter vacuum heat collection tubes in longitudinal inserted and closely packed arrangement |

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|---------------------------|---------------------------|---|---|--|
| CN101852499 A 20101006 | CN20091132985 20090401 | F24J2/38; F24J2/02; F24J2/40; G02B7/02; G02B7/182; G02B27/09 | JIE ZHANG | Disc type focusing device capable of adjusting focusing ratio |
| CN101852500 A 20101006 | CN20101182963 20100522 | F24J2/00 | WEIGUO YAO; ZHEJIANG MEIDIYA NEW ENERGY TECHNOLOGY CO LTD | Panel solar energy one-way cycle intelligent frequency-conversion auxiliary heating control system |
| CN101852501 A 20101006 | CN20101204091 20100621 | F24J2/46 | FENG CHEN | Water-saving device for pressurizing water tank and evacuating pipeline for solar water heater |
| CN101854131 A 20101006 | CN20091010972 20090401 | H02N6/00; F24J2/48 | INST METAL RES CHINESE ACAD SC | High-temperature-resistant selective solar energy-absorbing film and preparation method thereof |
| CN101857349 A 20101013 | CN20101194022 20100604 | C02F11/12; F24J2/30; F24J2/32 | UNIV ZHEJIANG | System using solar energy to dry sludge in vacuum |
| CN101858614 A 20101013 | CN20091135200 20090412 | F24D15/00; F24J2/00 | QINGHAI LIU | Solar radiator |
| CN101858649 A 20101013 | CN20101188124 20100528 | F24J2/48 | CUBE ENERGY TECHNOLOGY SHANGHAI CO LTD E | Fresnel solar collector |
| CN101858650 A 20101013 | CN20091131642 20090413 | F24J2/04; F24J2/24; F24J2/40; F24J2/46 | SHUZHEN CHEN | High-efficiency solar energy water heater |
| CN101858651 A 20101013 | CN20101203710 20100617 | F24J2/24; F24J2/46 | CHANGZHI YUTONG MECHANICAL EQUIPMENT CO LTD | Solar water heater |
| CN101858652 A 20101013 | CN20101115475 20100226 | F24J2/00; F24J2/46; F24J2/48; F24J2/50 | GUANGDONG LIANSU TECHNOLOGY IND CO LTD | Blanket-type solar heat collector |

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|----------------------------|----------------------------|--|---|--|
| CN101858653 A 20101013 | CN20101118756 20100226 | F24J2/48; C23C14/08; C23C14/16; C23C14/35 | GUANGDONG LIANSU TECHNOLOGY IND CO LTD | Heat insulating reflector panel of polymer-based solar collector |
| CN101858654 A 20101013 | CN20101197420 20100611 | F24J2/46; F24J2/40 | DEEN DONG | Anti-freezing intelligent drainage system for solar pipe in winter |
| CN101858655 A 20101013 | CN20101204965 20100618 | F24J2/46 | CUBE ENERGY TECHNOLOGY SHANGHAI CO LTD E | One-dimensional Fresnel solar energy collector |
| CN101858656 A 20101013 | CN20101209626 20100625 | F24J2/46 | YONGSHENG HAN | Built-in simple and easy emptying valve of solar water heater |
| CN101858657 A 20101013 | CN20101118757 20100226 | F24J2/46; B32B15/095; B32B27/08; F24J2/51 | GUANGDONG LIANSU TECHNOLOGY IND CO LTD | Collecting tube of polymer-based solar collector |
| CN101858658 A 20101013 | CN20101118758 20100226 | F24J2/48; C08L23/06; C08L23/12; C08L23/16; C08L51/06; C08L53/02; C08L67/02; C08L69/00; C08L77/00; C08L81/02 | GUANGDONG LIANSU TECHNOLOGY IND CO LTD | Heat-collecting tube applied to polymer-base solar heat collector |
| CN101858659 A 20101013 | US20080119855P 20081204 | F24J2/54; H01L31/052; H02N6/00 | YIKEBO ENERGY TECHNOLOGY SHANGHAI CO LTD | Polar axis tracking device of solar collector |
| CN101858669 A 20101013 | CN20101200072 20100611 | F25B29/00; F24F5/00; F24F12/00; F24J2/30; F24J3/08 | WANGDAN ZHANG | Water-cooled air conditioning and water heating system |

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|---------------------------|---------------------------|---|--|---|
| CN101859014 A 20101013 | CN20101200437 20100609 | G02B7/198; F24J2/38; F24J2/40 | INST ELECTRICAL ENG CAS | Azimuth-elevation tracking method of heliostat with reflecting mirror surface deviated from rotating center |
| CN101860264 A 20101013 | CN20091131857 20090409 | H02N6/00; E04D13/18; F24J2/50 | YULIN ZHU | Pyroelectricity cogeneration improved structure |
| CN101864582 A 20101020 | CN20101172230 20100512 | H01L31/042 | ZHENENGHE SHANGHAI SOLAR ENERY EQUIPMENT CO LTD | Preparation method of aluminum base large-area electroplating black chromium solar heat collecting panel |
| CN101865533 A 20101020 | CN20091135155 20090419 | F24J2/00; F24J2/46 | JUNSHUN CHEN | Solar cluster aerial heat connecting device |
| CN101865534 A 20101020 | CN20101188135 20100528 | F24J2/10; F24J2/46 | CUBE ENERGY TECHNOLOGY SHANGHAI CO LTD E | Solar receiver |
| CN101865535 A 20101020 | CN20101199790 20100613 | F24J2/00; F24J2/40; F24J2/54 | UNIV TIANJIN TECHNOLOGY | Solar-tracking and heat-collecting system |
| CN101865536 A 20101020 | CN20101207642 20100624 | F24J2/00; F24J2/05; F24J2/10; F24J2/20; F24J2/24; F24J2/32; F24J2/46; F24J2/48 | GUOQING WANG | Concentrating solar collector |
| CN101865537 A 20101020 | CN20101214437 20100630 | F24J2/00; F24J2/40 | SUZHOU NEW ASIA TECHNOLOGIES INC | Solar heat pump water heater |
| CN101865538 A 20101020 | CN20101214072 20100630 | F24J2/05; F24J2/46 | XUEDONG MAO | Solar energy water heater with dual water storage tanks directly communicated with dual floating glass vacuum heat-collecting tubes |
| CN101865539 A 20101020 | CN20101174691 20100513 | F24J2/48 | CUBE ENERGY TECHNOLOGY SHANGHAI CO LTD E | Linear Fresnel solar heat collector device |

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|---------------------------|---------------------------|--|--|---|
| CN101865540 A 20101020 | CN20101196164 20100610 | F24J2/20; E04D13/18; F24F7/007; F24J2/46; F24J2/48 | PEISHI ZHU | Solar air heat collection radiator integrated with building |
| CN101865541 A 20101020 | CN20101214428 20100630 | F24J2/30; F24D3/00; F24F5/00; F24J2/46; F25B15/06 | SUZHOU NEW ASIA TECHNOLOGIES INC | Solar system |
| CN101865542 A 20101020 | CN20101204210 20100621 | F24J2/32; F24J2/30; F24J2/46 | TENGFEI YANG; FEILONG ZOU | Plate-type solar water heater |
| CN101865543 A 20101020 | CN20101191069 20100603 | F24J2/34; F24J2/00; F24J2/46 | CHANGZHOU SUNLIGHT SOLAR ENERGY CO LTD | Large-scale solar water heater system |
| CN101865544 A 20101020 | CN20101159863 20100429 | F24J2/40 | YUANSHUAI NIU | Automatic water supply control device |
| CN101865545 A 20101020 | CN20091049233 20090414 | F24J2/46 | SHANGHAI GOLDEN SUN SOLAR ENERGY TECHNOLOGY CO LTD | Integral type solar energy heat pipe with unequal diameters |
| CN101865546 A 20101020 | CN20101157450 20100428 | F24J2/46 | QIN WANG | Automatic sealing device of solar water heater |
| CN101865547 A 20101020 | CN20101206512 20100623 | F24J2/46; F24J2/52 | PUYANG DIPU PETROLEUM TECHNOLOGY DEV CO LTD; MINGXUN ZHANG | Double-cabin type solar energy water heater |
| CN101865548 A 20101020 | CN20101174681 20100513 | F24J2/24; E04H17/16; F24J2/52 | CUBE ENERGY TECHNOLOGY SHANGHAI CO LTD E | Solar receiver |
| CN101865549 A 20101020 | CN20101201490 20100612 | F24J2/48 | FENGHUA DONG | High-efficiency full-glass heat tube |

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|---------------------------|--|--|---|--|
| CN101865550 A 20101020 | CN20101196630 20100608 | F24J2/50 | GUANGZHOU INST ENERGY CONV CAS | Airbag type transparent cover plate of flat plate solar heat collector |
| CN101866028 A 20101020 | CN20101174702 20100513 | F24J2/10; F24J2/48 | CUBE ENERGY TECHNOLOGY SHANGHAI CO LTD E | Solar collector |
| CN101867320 A 20101020 | CN20101184286 20100527 | F24J2/28; F24J2/48; F24J2/50 | UNIV TIANJIN | Photoelectric photo-thermal combined vacuum straight-through heat collector for trench light condensing system |
| CN101867322 A 20101020 | CN20101188297 20100601 | F24J2/52; E04D13/14; H01L31/042 | YUAN ZHANGSHENG | Fully automatic solar power generation and water supply integrated machine |
| CN101867328 A 20101020 | CN20101204941 20100618 | H02N6/00; F24J2/46; F24J2/52 | CUBE ENERGY TECHNOLOGY SHANGHAI CO LTD E | Solar collector |
| CN101868676 A 20101020 | WO2009US61948 20091023; US20080197169P 20081024; US20090605241 20091023 | F24J2/04 | BABCOCK & WILCOX POWER GENERAT | Shop-assembled solar receiver heat exchanger |
| CN101871249 A 20101027 | CN20101147016 20100320 | F24J2/10; F24J2/12; G02B5/10; H01L31/042 | XIAOFU LUO | Solar water heating tile |
| CN101871438 A 20101027 | CN20091106875 20090427 | F03G6/00; F03G7/04; F24J2/34; F25B30/06 | TIANXIANG WANG | Solar heat water low-temperature generating system |
| CN101871439 A 20101027 | CN20101134928 20100325; CN20101199847 20100531 | F25B29/00; F24D3/18; F24F5/00; F24J2/04; F25B30/06 | FANGLIANG LIU | Device for generating, refrigerating and heat supplying by solar energy and biomass energy |

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|---------------------------|---------------------------|--|---|--|
| CN101871440 A 20101027 | CN20101199189 20100613 | F03G6/06; F01D15/10; F01K17/04; F24J2/00; F25B27/00; F25B41/06 | UNIV SHANGHAI JIAOTONG | Solar energy-natural gas complementary injection type distributed combined cold heat and power supply device |
| CN101871680 A 20101027 | CN20091137430 20090421 | F24F5/00; F24J2/00; F25D23/12 | DEZHI WANG | Home appliance and decoration integration |
| CN101871687 A 20101027 | CN20091135082 20090422 | F24H1/18; F24H1/12; F24H4/02; F24H7/02; F24H9/00; F24H9/18; F24J2/00 | YUNLIU LIU | Storage and instant electric water heaters, solar water heat and heat pump water heater and water tank structure thereof |
| CN101871694 A 20101027 | CN20091026592 20090426 | F24J2/00; A01D75/00 | ZHIMING ZHU | Solar water heater on reaper |
| CN101871695 A 20101027 | CN20091020385 20090423 | F24J2/04; C02F1/48; F24J2/46 | SHAOLI CHENG | High-energy magnetizing solar water heater |
| CN101871696 A 20101027 | CN20101230437 20100720 | F24J2/05; F24J2/46 | QIANG WANG | Unpressurized serial solar energy vacuum tube heat collector |
| CN101871697 A 20101027 | CN20101213768 20100629 | F24J2/06; F24J2/30; F24J2/32; F24J2/46 | UNIV GUANGZHOU | Tracking vertical type heat storing and collecting combined type solar water heater light concentrating and heat collecting system |
| CN101871698 A 20101027 | CN20091061745 20090427 | F24J2/10 | LIN CHEN; XIAOLEI JIANG; XIAOQI JU; XIANG LI; LI LIN; XUEJUN LIN; XIAOCHUAN SHI; FANG WANG | Method for forming solar light collecting device by using reflector and light collector |

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|-------------------------------|--|---|---|---|
| CN101871811 A 20101027 | CN20101201885 20100609 | G01J1/04; F24J2/46; G01J3/28; H02K7/10 | UNIV NORTH CHINA ELEC POWER | Radiation measuring device of light-gathering heat collection pipe and scanning analysis method thereof |
| CN101871864 A 20101027 | CN20091082610 20090421 | G01N3/10; F24J2/46 | BEIJING TSINGHUA SOLAR ENERGY DEV CO LTD | On-line detection method of anti-detonating quality of all-glass heat tube type evacuated solar collector tube and device |
| CN101871865 A 20101027 | CN20091082611 20090421 | G01N3/10; F24J2/46 | BEIJING TSINGHUA SOLAR ENERGY DEV CO LTD | On-line detection method for anti-detonating quality of all-glass heat tube type evacuated solar collector tube |
| CO6180473 A2 20100719 | ES20060002226U 20061009; ES20060002371U 20061025; ES20060002756U 20061222 | F24J2/54 | CABANILLAS INGENIEROS S L [ES] | SISTEMA MOVIL DE SOPORTE PARA PANEL SOLAR |
| CZ20090312 A3 20101201 | CZ20090000312 20090520 | F24J2/52 | EKOSOLAR S R O [CZ] | Solar system load-bearing structure |
| CZ21115U U1 20100728 | CZ20100022566U 20100414 | F24J2/38 | UNIVARS SRO [CZ] | Load-bearing structure |
| CZ21199U U1 20100901 | CZ20100022836U 20100611 | F24J2/42 | HAVLICEK LUBOS [CZ] | Air- or water-heating apparatus |
| CZ21497U U1 20101201 | CZ20100023285U 20101006 | F24J2/52 | SUCHAN JIRI [CZ] | Load-bearing structure for solar panels |
| CZ21514U U1 20101208 | CZ20100023208U 20100913 | F24J2/52 | AKO PLUS S R O [CZ] | Double load-bearing bracket for solar equipment |
| CZ21516U U1 20101208 | CZ20100023297U 20101007 | H01L31/042; F24J2/52; G02B5/12 | ERYCHLEB JOSEF [CZ] | Solar plant |
| DE102008048096 A1 20100715 | DE200810048096 20080919 | F24J2/07; F03G6/06 | ECOENERGY GES FUER EN UND UMWE [DE] | Verfahren zur Überhitzung von Dampf |

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|-------------------------------|----------------------------|--|--|---|
| DE102008057012 A1 20100715 | DE200810057012 20081112 | F24J2/52; H01L31/042 | HEINTZMANN SICHERHEITSSYSTEME [DE] | Solar module supporting structure, has clamping grooves receiving spring legs of clamping pieces with flaps that are bent toward legs and connected with sections of supporting webs located next to grooves to clamp edges of solar modules |
| DE102008058355 A1 20100805 | DE200810058355 20081120 | F24J2/04 | ROOS FREIZEITANLAGEN GMBH [DE] | Solar collector for heating liquid, has distributor pipe made of plastic for supplying and discharging liquid to be heated, where wall of distributor pipe is provided with undulated profile |
| DE102008063250 A1 20100916 | DE200810063250 20081223 | G06Q10/00; F02G5/00; F24J2/40; G05B13/04; G05B17/00; H02J3/38 | NATCON7 GMBH [DE] | Verfahren und System zur Nutzung erneuerbarer Energiequellen |
| DE102008063860 A1 20100701 | DE200810063860 20081219 | F24J2/40 | VISSMANN WERKE KG [DE] | Verfahren und Vorrichtung zum Regeln einer Wärmezeugungseinrichtung |
| DE102008064295 A1 20100722 | DE200810064295 20081220 | F24J2/46 | BUTSCHEK FRANZ [DE] | Solar-flat or arc collector for use on roof of house, has collector unit made of composite material, and highly heat-resistant wire provided for heating cold water riser pipe, and mirror installed in hemispherical-shield |
| DE102008064351 A1 20100701 | DE200810064351 20081220 | F24J2/04 | ALBRECHT RENE [DE] | Sonnenkollektor |
| DE102009002504 A1 20101028 | DE200910002504 20090420 | F24J2/52 | CT TEC COMPOSITES GMBH [DE] | Carrier for solar collector module utilized e.g. for producing electricity, has angle adjusting unit with shear-like cross sidepieces provided according to type of scissor lifting arrangement that supports receiving element at base element |
| DE102009002505 A1 20101021 | DE200910002505 20090420 | H01L31/052; F24J2/10 | KIESEWETTER TOBIAS [DE]; KRAMPE KARL-HEINZ [DE] | Solar plant, particularly photovoltaic plant, has multiple power converting arrangements with retaining element, energy converter and optical device |

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| DE102009002508 A1 20101021 | DE200910002508 20090420 | G02B27/42; F21V5/04; F24J2/08; G02B3/08; G02B27/09; H01L31/052 | KIESEWETTER TOBIAS [DE]; KRAMPE KARL-HEINZ [DE] | Optische Einrichtung zum Beugen eines Strahlenbündels sowie ein Verfahren zur Beugung eines Strahlenbündels |
| DE102009003077 A1 20101118 | DE200910003077 20090513 | F24J2/52; F16S3/02; H01L31/05 | HABDANK PV MONTAGESYSTEME GMBH [DE] | Traganordnung für Solarmodule |
| DE102009003878 A1 20101118 | DE200910003878 20090505 | F24J2/42; F24J2/40 | KLOOCK MARTIN [DE] | Solartechnische Anordnung sowie Verfahren dafür |
| DE102009003913 A1 20100708 | DE200910003913 20090103 | F24J2/40 | BOSCH GMBH ROBERT [DE] | Verfahren und Vorrichtung zur Bestimmung eines Schaltpunktes einer Solarheizkreisregelung und Solaranlage |
| DE102009003914 A1 20100708 | DE200910003914 20090103 | F24J2/42 | PINKL JOACHIM [DE] | Solarabsorber und Luftwärmetauscher mit und ohne Zwangsbelüftung |
| DE102009004072 A1 20100708 | DE200910004072 20090102 | F24J2/14; F24J2/38 | AMATON SA [BE] | Parabolrinnenkollektor |
| DE102009004260 A1 20100708 | DE200910004260 20090107 | E04D13/18; E04D3/16; F24J2/52 | SOLEOS SOLAR GMBH [DE] | Dachelement, Anordnung von Dachelementen und Verfahren zur Herstellung eines Dachelements |
| DE102009004547 A1 20100715 | DE200910004547 20090114 | F24J2/46 | BECKER FRIEDRICH [DE] | Solar flat plate collector has transparent heat insulation, where collector interior space is filled with steam, which condenses at operating temperature |
| DE102009004995 A1 20100722 | DE200910004995 20090117 | E04D13/18; E06B9/24; F24J2/54; H01L31/04 | FUCHS PETER [DE] | Solar module functional unit, has solar cell modules or solar collectors movable in horizontal and/or vertical direction, where modules or collectors are supported in dynamic installation frame that is aligned in installation area |
| DE102009005332 A1 20100722 | DE200910005332 20090116 | F24J2/04 | VISSMANN WERKE KG [DE] | Solarthermische Anlage |

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|-------------------------------|----------------------------|--|--------------------------------------|--|
| DE102009005939 A1 20100729 | DE200910005939 20090123 | E04D13/18; F24J2/52 | BLASZCYK ROBERT [DE] | Mounting system for solar- and photovoltaic panels, consists of two angular sections which are made of light-, ultraviolet-, and rotting-resistant material, lower angular frame and upper mounting frame |
| DE102009006247 A1 20100729 | DE200910006247 20090127 | F24J2/42 | SIPOS ADRIENN [DE]; SIPOS JANOS [DE] | Heat recovery system for house, has natural parts e.g. brick work, comprising dynamic, mobile, thermal insulating cover, surrounded by permanent thermal insulating sleeve, and covered with weather-resistant glass |
| DE102009006722 A1 20100805 | DE200910006722 20090129 | F24J2/04 | BOSCH GMBH ROBERT [DE] | Solarheizanlage, Verfahren und Vorrichtung zur Diagnose einer Luftmenge in einem mit einem Solarfluid befüllten Solarfluidkreis und zum Betreiben einer Solarheizanlage |
| DE102009006724 A1 20100805 | DE200910006724 20090129 | F24J2/04 | BOSCH GMBH ROBERT [DE] | Solarheizanlage, Verfahren und Vorrichtung zur Verlängerung der Laufzeit einer Anlage mit einem geschlossenen Fluidkreislauf |
| DE102009006961 A1 20100805 | DE200910006961 20090131 | F24J2/52 | WOSCHKO BETEILIGUNGEN GMBH [DE] | Fastener for fastening photovoltaic modules and/or solar collectors to roof in sun direction, has metallic carrier connected with lower receptacle on lower side such that receptacle is fastened into screwing channel by fastening screw |
| DE102009007232 A1 20100805 | DE200910007232 20090203 | F01K23/02; F01K27/00; F03G6/00; F24J2/14; F25B9/14 | SIEMENS AG [DE] | Thermische Kraftwerksanlage, insbesondere solarthermische Kraftwerksanlage |
| DE102009007582 A1 20100909 | DE200910007582 20090202 | F16L13/14; B29C65/20; F24J2/24 | HERBST DONALD [DE] | Verfahren zum Verbinden sowie Verbindung eines Kapillarrohrs mit einem Stammrohr |
| DE102009008263 A1 20100819 | DE200910008263 20090210 | F24J2/40 | BOSCH GMBH ROBERT [DE] | Verfahren und Vorrichtung zum Einstellen eines Solarfluiddrucks in Leitungen einer Solaranlage sowie eine Solaranlage |

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| DE102009008426 A1 20100819 | DE200910008426 20090211 | F24J2/14 | MOSMATIC AG [CH] | Solar power station, has metal hose guided via retainer, and axial seal ring co-acting with sealing surface at discharge tube in spring stressed manner, where discharge tube is arranged in housing in rotatable manner |
| DE102009008683 A1 20100819 | DE200910008683 20090206 | F24J2/52 | K2 SYSTEMS GMBH [DE] | Solar module fastener for solar module, has mounting rail with fastening bars and retaining medium formed as U-shaped holder with base and two brackets |
| DE102009009258 A1 20100902 | DE200910009258 20090217; DE200820013279U 20080731 | F24J2/20 | LUEDECKE FREDI [DE] | Anlage und Verfahren zur Wärmegewinnung |
| DE102009009321 A1 20100819 | DE200910009321 20090217 | F28D20/00; F24J2/46 | SKRABANIK GEORG [DE] | Wärmespeicher |
| DE102009010358 A1 20100708 | DE200910010358 20090225; DE200910004084 20090102 | F01K3/08; F24J2/46 | HOLZAPFEL BERND [DE] | Wärmespeicher, Kraftwerk und Verfahren zur Bereitstellung von Prozesswärme |
| DE102009010629 A1 20100826 | DE200910010629 20090223 | F24J2/24 | NIERSMANN ULF [DE] | Thermal solar collector e.g. flat tube collector, has inner space comprising housing with sealing, and transparent cover is equipped with absorber, where inner space is evacuated or filled with transparent medium |
| DE102009011532 A1 20100909 | DE200910011532 20090303 | F24J2/00; H01L31/058 | SOLARHYBRID AG [DE] | Hybridkollektor |
| DE102009011715 A1 20100916 | DE200910011715 20090309 | F24D3/10; F24J2/40 | SOLARHYBRID AG [DE] | Hydraulic header for connection of heat generators to heating system, is provided with generator connections for connecting heat generator and storage ports for connecting heat accumulator |
| DE102009011780 A1 20100916 | DE200910011780 20090309 | F24J2/46; F24J2/40 | ROTEX HEATING SYSTEMS GMBH [DE] | Solar collector for collector arrangement, is provided with collector housing positioned in solar absorber and holding device |

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| DE102009011988 A1 20100909 | DE200910011988 20090305 | F24J2/38 | OPHTHALMOSYSTEM GMBH [DE] | Vorrichtung und Verfahren zur gerichteten Reflexion Nutzung |
| DE102009012026 A1 20100923 | DE200910012026 20090310 | E04D13/18; F24J2/52 | ROTEX HEATING SYSTEMS GMBH [DE] | Mounting system for on-roof mounting of solar collectors used in thermal solar system for producing e.g. warm water, has carrier rail brought into locking position fixed at profile claw by rotating around rail longitudinal axis |
| DE102009013113 A1 20100923 | DE200910013113 20090313 | G05D3/00; F24J2/38; H01L31/04 | FRAUNHOFER GES FORSCHUNG [DE] | Verfahren zum Nachführen eines Solargenerators nach der Sonne, Steuerung für eine Solaranlage und Solaranlage |
| DE102009013254 A1 20100923 | DE200910013254 20090314 | F24J2/07 | DEUTSCH ZENTR LUFT & RAUMFAHRT [DE] | Steam production absorber pipe for use in solar thermal power station for e.g. generating solar process steam, has water impermeable diaphragm separating two areas from each other, where steam is permeable into interior of absorber pipe |
| DE102009014491 A1 20100930 | DE200910014491 20090323 | F24J2/20 | RAWEMA COUNTERTRADE HANDELSGMB [DE] | Collector for heating fluid by solar energy, has inlet area for supplying fluid that is heated, where discharge area discharges heated fluid in collector, and fluid flow area is provided between inlet area and discharge area |
| DE102009015901 A1 20101007 | DE200910015901 20090401 | F24J2/07 | FRICKE HARALD [DE]; FRICKE MARLIES [DE]; SCHUETTAUF KERSTIN [DE] | Radiation absorber device for solar mirror unit, has primary heat transfer circuit for primary heat carrier, secondary heat transfer circuit for secondary heat carrier and burning surface for providing radiation |
| DE102009016072 A1 20101007 | DE200910016072 20090403 | F24J2/52; H01L31/042 | BAUER KUNSTSTOFFTECHNIK GMBH [DE] | Device for arranging solar modules, has open container at upper side with plastic molding for receiving bulk goods or piece goods to weigh down device |
| DE102009016923 A1 20101021 | DE200910016923 20090408 | E04D13/18; E01C5/00; E04D1/30; E04F13/074; F24J2/42 | MOLSEN CARSTEN [DE] | Roofing integrated solar system structural arrangement, has guides for tubes and pipes integrated in space below ridge tiles, and retaining element integrated in UV-stable plastic foils for retaining glass roofing tiles |

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| DE102009017164 A1 20101021 | DE200910017164 20090409 | F16B5/06; F24J2/52 | ASCHENBRENNER GMBH [DE] | Holding device, particularly for fastening plate-shaped elements, like solar panels or profile elements on carrier structure, comprises carrier element having two holding elements and fastening element |
| DE102009017741 A1 20100708 | DE200910017741 20090416; DE200810063424 20081231 | F24J2/04; F24J2/14 | AHNERT AXEL [DE]; AHNERT PETER [DE] | Receiverrohr |
| DE102009018126 A1 20101014 | DE200910018126 20090409 | C25B1/04; F03D9/00; F03D9/02; F24J2/00; H02J3/38 | ZSW [DE] | Energieversorgungssystem und Betriebsverfahren |
| DE102009018362 A1 20101111 | DE200910018362 20090423 | F16B1/02; E04D13/18; F16B5/02; F16B37/00; F24J2/52; H01L31/05 | FATH GMBH [DE] | Fastening device for fastening plate-shaped component i.e. solar module, to profile rail of supporting structure in rooftop, has nut with springs at sides and supported directly or indirectly in groove and retaining element over springs |
| DE102009018920 A1 20101104 | DE200910018920 20090428 | H02N6/00; F24J2/04; H01L31/04; H01L31/052 | A & F GMBH [DE] | Method for operating photovoltaic system for converting sunlight into electrical energy, involves measuring actual temperature and forwarding it to controlling- or regulating device |
| DE102009019345 A1 20101111 | DE200910019345 20090430 | F16B37/04; F16B1/02; F16B5/02; F24J2/52 | WAGNER & CO SOLARTECHNIK GMBH [DE] | Befestigungselement |
| DE102009019548 A1 20101104 | DE200910019548 20090430 | F24J2/52; H01L31/042 | WILHELM OETTING KUNSTSTOFFVERF [DE] | Assembling module for assembling solar collector at e.g. flat roof of house, has fastening devices displaced at holding rail and fixed in desired position, where holding rails are attached at upper side of columns |

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| DE102009019829 A1 20101111 | DE200910019829 20090504 | H01L31/05; F16B7/04; F24J2/52 | GEHRLICHER SOLAR AG [DE] | Fastening structure for fastening large solar module to substructure in e.g. commercial power generation application, has mutually corresponding engagement formations provided at pair of profiles and lockingly engaging profiles together |
| DE102009020256 A1 20101111 | DE200910020256 20090507 | F24J2/46; H01L31/05 | STIEBEL ELTRON GMBH & CO KG [DE] | Frame for solar collector has base, outer wall, inner wall and hollow chamber between outer wall and inner wall, where drainage hole is connected to hollow chamber |
| DE102009020336 A1 20101118 | DE200910020336 20090507 | F24J2/38; F24J2/54 | HAUSER EBERHARD [DE] | Heliostat has mirror, actuator for moving mirror and sensor arrangement for detecting position of sun or sunlight intensity |
| DE102009020446 A1 20101111 | DE200910020446 20090508 | H01L31/04; F24J2/54; H01L31/052 | A & F GMBH [DE] | Photo voltaic system for converting radiation energy of sun light into electrical energy, has solar altitude dependent processing parameter determined in controlling device, and changeable frame angle produced from angle difference |
| DE102009020476 B3 20100902 | DE200910020476 20090508 | G02B5/10; F24J2/10; G02B7/185 | DEUTSCH ZENTR LUFT & RAUMFAHRT [DE] | Method for manufacturing curved mirror facets of defined surface form for solar energy generating system, involves arranging flexible suction plate on vertically adjustable support |
| DE102009020620 A1 20101125 | DE200910020620 20090509 | F16S3/02; F24J2/46 | FORSCH QUALITAETSZENTRUM ODERB [DE] | Connecting and retaining construction for profiles and profile rods for e.g. frame construction, has flat connecting element extending over entire height of profiles, where construction is positioned by secondary molding element |
| DE102009021252 A1 20101230 | DE200910021252 20090514 | C03C17/23; C03C17/34; F24J2/04; F24J2/48 | HELMHOLTZ ZENT B MAT & ENERG [DE] | Vakuumkollektorröhre und Verfahren zur Herstellung einer solchen Vakuumkollektorröhre |
| DE102009021975 A1 20101202 | DE200910021975 20090519 | G05D3/00; F24J2/38 | HISTA ELEKTRO ANLAGENBAU GMBH [DE] | Solar altitude track controlling system for solar collector used for recovering energy from solar radiation, has control units delivering address commands and/or control information to other |

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| | | | | control units via data bus |
| DE102009022154 A1 20101125 | DE200910022154 20090520 | F24J2/38 | DEUTSCH ZENTR LUFT & RAUMFAHRT [DE] | Method for calibrating flat alignment of solar radiation directing, focusing, optical reflector device such as heliostat or dish, involves installing start- or end plane distant to focal length of reflector device form reflecting plane |
| DE102009022155 A1 20101125 | DE200910022155 20090520 | F24J2/38 | DEUTSCH ZENTR LUFT & RAUMFAHRT [DE] | Method for calibration of concentrator of energy generating plant, involves arranging each facet of concentrator in line on another imaging point of heliostats |
| DE102009022161 A1 20101209 | DE200910022161 20090520 | E04D13/00; E04B7/18; E04D13/18; F24J2/52 | RENSBURG MARKUS [DE] | Fastener for roof structures, is provided with fastening body, where fastening body has opening with thread, particularly for receiving fastener |
| DE102009022201 A1 20101125 | DE200910022201 20090520 | F24J2/54; H01L31/05 | KUMER STANKO [DE] | Solar module carrying device has stand element which is mounted on base, where adjusting device is provided for rotating supporting frame element around vertical axis at upper end of stand element |
| DE102009022557 A1 20101202 | DE200910022557 20090525 | F03G6/04; F02G1/04; F24J2/10; F24J3/00 | ZURHEIDE FRANK [DE] | Solar power plant, has small planar mirror plates tilted in adequate angle and directing radiation onto heater of stirling engine, which is mounted above planar steel carrier plates provided perpendicular to radiation |
| DE102009022718 A1 20101202 | DE200910022718 20090526 | F16B5/00; E04D13/18; F24J2/52 | HS SYSTEMTECHNIK GMBH [DE] | Device for fastening e.g. solar module to roof structure of house, has support arm exchangeably fastened to mounting plate i.e. angle plate, and guide brackets encompassing arm and arranged at angle legs of plate |

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| DE102009022765 A1 20101202 | DE200910022765 20090527 | F24J2/04 | BERNSTEIN HANS-FRIEDRICH [DE] | Solar system for solar heating support of heating or cooling system, comprises solar collector and heat transfer fluid, where circulation of heat transfer fluid is switchable through solar collector by two valves |
| DE102009022780 A1 20101202 | DE200910022780 20090520 | F16M13/00; F24J2/52; H01L31/05 | TRIENERGY GMBH [DE] | Stand for solar module, has holder comprising two angle sections that are pivotable opposite to each other around horizontal axis, where one of angle sections has side parts projecting from base, and another section has arms |
| DE102009022876 A1 20101230 | DE200910022876 20090527 | F24J2/54; H01L31/04 | HISTA ELEKTRO ANLAGENBAU GMBH [DE] | Nachführeinheit sowie Sonnenkollektor- oder Photovoltaikeinheit |
| DE102009022932 A1 20101202 | DE200910022932 20090527 | F24J2/28 | GIRLICH DIETER [DE] | Solar collector has absorber which is surrounded by housing, where absorber is made of metallic or metallized, netted three-dimensional structure, where three-dimensional structure is open-pored metal foam and closed-pored metal foam |
| DE102009023512 A1 20101209 | DE200910023512 20090530 | F24J2/48 | DEVINE GMBH & CO KG [DE] | Solar collector, has fluid absorbing medium to convert solar radiation energy into heat energy, where medium absorbs radiation energy transmitted by flow-chamber-wall and is simultaneously moved in and out of flow chamber for heat transfer |
| DE102009024498 A1 20100701 | DE200910024498 20090610; DE200810063398 20081230 | F24J2/00 | FALKENHAGEN JOACHIM [DE] | Method for heat supply using solar power, involves utilizing solar radiation from sun, for heating heat transfer medium in climate zone, and transporting medium to heat consumers in region with low degree of exposure to sun |
| DE102009024839 A1 20101216 | DE200910024839 20090611 | F24J2/46 | GERLACH WOLFGANG [DE] | Solar radiation utilization mechanism for heating building, has heat storage tank provided with tube system and arranged at bottom, where heat storage tank is directly connected with heating mechanism by heat pump |

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| DE102009024902 A1 20101216 | DE200910024902 20090615 | F24J2/46; F28D20/00 | SCHWAGER HARTMUTH [DE] | Method for utilization of quantities of heat from solar thermal plant in underground of building, involves extending injection well within clay layer, and removing quantity of heat of clay layer at time of increased heat within building |
| DE102009024974 A1 20101230 | DE200910024974 20090616 | F24J2/08 | NAFFIN FRIEDRICH HELGE [DE] | Device for heating sea water and/or material in e.g. drinking water treatment plant, has carrier unit including segment-like wall elements connected to dome-shaped structure and formed in multidimensional curved-shape |
| DE102009025235 A1 20101216 | DE200910025235 20090614 | F24J2/40; F24D12/00; F24D19/10; F24H1/18; F24J2/46; F28D20/00 | NUTT NORBERT [DE] | Tandem-solar storage system for building, has large heat storage units formed in individual dimensions and from prefabricated elements within |
| DE102009025543 A1 20101223 | DE200910025543 20090617 | F24J2/42 | FREITAG THOMAS [DE] | Transparent absorber for use within intermediate spaces between outer and inner shells of e.g. multi-shelled facade, has optical waveguide systems arranged in interior, where absorber has transmission degree in specific range |
| DE102009026083 A1 20100708 | DE200910026083 20090701; DE200810044380 20081205; DE200910025947 20090610 | F16M11/00; E04D13/18; F16M13/00; F24J2/52; H01L31/05 | CLIMASOL SOLARANLAGEN GMBH [DE] | System zur Befestigung eines Solarmoduls, Anordnung von Solarmodulen und Verfahren zur Befestigung eines Solarmoduls |
| DE102009029795 A1 20101125 | DE200910029795 20090618; DE200920007213U 20090519 | F24J2/00 | CHU YU-LIN [TW] | Generator-system for use in building, has solar cell-panel for receiving solar energy and converting into electrical power, discharge-pipes mounted on chamber, and mounting-frame mounted at outer side of housing for supporting housing |

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| DE102009030638 A1 20101230 | DE200910030638 20090625 | F24J2/04 | DUESSELDORF STADTWERKE [DE] | Solar-thermal plant, has thermal solar collector providing heat energy for heat consumer and/or heat accumulator via transfer medium, and cooling systems remove excess heat, which is not accepted by heat consumer and/or heat accumulator |
| DE102009043808 A1 20100916 | DE200910043808 20090819; DE200810044380 20081205; DE200910025947 20090610; DE200910026140 20090709 | E04D13/18; F24J2/52; H01L31/05 | CLIMASOL SOLARANLAGEN GMBH [DE] | Montagesystem und Dachkonstruktion |
| DE102009048086 A1 20101028 | DE200910048086 20091002; DE200910016707 20090409 | E04D13/18; E04D1/28; F24J2/42 | FLECK OSKAR [DE] | Roof covering plate for extraction of heat energy from solar irradiation, has upper part with opening, where hollow space is formed in roof covering plate by assembling lower part and upper part to roof covering plate |
| DE102010007905 A1 20100826 | AT20090000284 20090220 | F24J2/46; A47L1/02; B08B1/02; F24J2/10 | VAILLANT GMBH [DE] | Thermosyphon system for heat recovery from solar power, has heating element with safety device for switching off of power supply of heating element when preset temperature is exceeded |
| DE102010008853 A1 20101021 | DE201010008853 20100222; DE200910010116 20090224; DE200910031308 20090630 | F24J2/04; F24J2/40; F24J2/46 | SCHOTT AG [DE] | Photovoltaische Vorrichtung mit Konzentratoroptik |
| DE102010018632 A1 20101104 | DE201010018632 20100423; DE200910019301 20090424 | F24J2/46 | LUEDERS UWE [DE] | Solar-operated air collector for heating outside air, circulating air or other gaseous medium, comprises glass pane, multi-chamber window frame, and chamber |

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|--------------------------------|--|---|--------------------------------|---|
| DE102010030566 A1 20101230 | DE201010030566 20100626; DE200910027259 20090626; DE200910029003 20090829; DE200910046708 20091113; DE200910055431 20091230 | F24J2/14 | DRAHEIM PETER [DE] | Solar heating device for use as thermo-solar device for heating liquid, has concentrator changed from spherical shape into parabolic shape, where absorber medium exhibits sectional and/or contact points with caustic curve of concentrator |
| DE112008002835 A5 20100722 | DE200720011679U 20070821; WO2008DE01359 20080816 | F24J2/04 | WISCH ENGINEERING GMBH [DE] | Sonnenkollektor zur Erwärmung vorzugsweise von Luft |
| DE112008003007 A5 20100819 | DE200720012275U 20070902; WO2008DE01437 20080901 | F24J2/51; F24J2/26 | KUNZ NORMAN [DE] | Thermischer Sonnenkollektor |
| DE112008003364 A5 20100909 | DE200710048114 20071005; DE200710060991 20071214; WO2008DE01597 20081002 | F28F13/16; A01G15/00; F03G7/04; F24J2/30; F25B21/00; F28D21/00 | KLEINWAECHTER JUERGEN [DE] | Elektrostatistisch-Thermischer Wandler (ETW) |
| DE202008017839U U1 20100826 | DE200820017839U 20080611; DE200810027797 20080611 | F24J2/20; F24J2/46 | BOSCH GMBH ROBERT [DE] | Solarflachkollektor und dessen Herstellung |
| DE202009002079U U1 20100701 | DE200920002079U 20090420 | E04D13/00; E04D13/18; F24J2/52; H01L31/05 | MARSCHALL FRANZ [DE] | Dachhaken |

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|--------------------------------|---|--------------------------------------|--------------------------|--|
| DE202009005090U U1 20100930 | DE200920005090U 20090730 | E04D13/18; F24J2/52; H01L31/05 | HENKENJOHANN JOHANN [DE] | Anordnung zur Befestigung von Modulen einer Photovoltaik-Einrichtung oder von Solarpaneelen |
| DE202009005140U U1 20100715 | DE200920005140U 20090814 | F24J2/54; H01L31/04 | SCHUECO INT KG [DE] | Nachführvorrichtung |
| DE202009005141U U1 20100715 | DE200920005141U 20090814 | F24J2/54; H01L31/04 | SCHUECO INT KG [DE] | Nachführvorrichtung |
| DE202009007481U U1 20101007 | DE200920007481U 20090526 | F24J2/52; H01L31/05 | RWENERGY GMBH [DE] | Solarträgerkonsole |
| DE202009007793U U1 20101021 | DE200920007793U 20090603 | F24J2/08 | KARK AG [DE] | Solarkollektor |
| DE202009008081U U1 20101028 | DE200920008081U 20090610 | F24J2/24 | SCHUECO INT KG [DE] | Absorber |
| DE202009008630U U1 20101104 | DE200920008630U 20090622 | F24J2/36 | KORRMANN VOLKER [DE] | Bedarfskollektor |
| DE202009008781U U1 20101104 | DE200920008781U 20090626 | F24J2/10; F24J2/14 | SAMAK NABIL [DE] | Wärmeabsorbierende Hohlkammern inkl. selbsttragender Karosserieeigenschaft in den Spiegelflächen der verschiedenen Solarkollektoren, die mittels (Hydro-)Anergie Antriebskreisläufen - kombiniert mit isoliertem Warmwasserspeicher - 24 Stunden täglich Solarstrom generieren und zusätzlich hybrid (z.B. Höhendifferenz oder C-Zellen) die erzeugte Strommenge aus Solarenergie steigern, kurz SIHAM-HEG24 |
| DE202009011434U U1 20101014 | DE200920011434U 20090825 | F24J2/52; H01L31/05 | SADEF NV [BE] | Profilträger |
| DE202009011775U U1 20100923 | DE200920011775U 20090804; DE200920006317U 20090429 | F24F5/00; F24F11/02; F24J2/00 | HESTERMANN GERHARD [DE] | Standardgerät für thermosolare Klimatisierung von Gebäuden |

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|--------------------------------|--|--|--------------------------|---|
| DE202009012152U U1 20100916 | DE200920012152U 20090909; DE200910002473 20090419; DE200810001640 20080507; DE200920011203U 20090814 | H01L31/052; F24J2/14; G02B5/10; H01L31/04 | DRAHEIM PETER [DE] | Vorrichtung zum Konzentrieren von einfallendem Licht |
| DE202009017830U U1 20100923 | DE200920017830U 20090909; WO2009EP06545 20090909; DE200820011906U 20080909 | F24J2/32 | SOLA TERM GMBH [DE] | Solar-Flachkollektor |
| DE202009017831U U1 20100722 | DE200920017831U 20090713; DE200910032837 20090713; DE200820011907U 20080909; DE200920008525U 20090620 | H02N6/00; F24J2/04 | SOLA TERM GMBH [DE] | Hagelschutz für einen Solarkollektor sowie Solarkollektor mit Hagelschutz |
| DE202009017846U U1 20100722 | EP20090013296 20091021; DE200920001734U 20090211; DE200920017846U 20091021 | F16M11/00; F24J2/52; H01L31/05 | BAUERSACHS BERNHARD [DE] | Montagekonstruktion |
| DE202010000485U U1 20100715 | DE201020000485U 20100329 | F24J2/46 | WUERZ ENERGY GMBH [DE] | Vorrichtung zum Betreiben einer Solarthermianlage |

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|--------------------------------|---|---|---|--|
| DE202010000545U U1 20100722 | DE201020000545U 20100409; DE200920004746U 20090428 | F24J2/24; F24J2/00; F24J2/40; F24J2/46 | KUMATEC SONDERMASCHB & KUNSTST [DE] | Befestigungseinrichtung für einen Holm oder eine Leiste an einem C-Profil |
| DE202010001142U U1 20100708 | DE201020001142U 20100120 | F24J2/46; F16B1/00 | NUEBEL HUBERT [DE] | Trägersystem zum Aufbau von Solarmodulen, durch das die Module dem Verlauf der Sonne nachgeführt werden können |
| DE202010001332U U1 20100722 | DE201020001332U 20100126 | G05D3/12; F24J2/38 | PIENDL CHRISTIAN [DE] | Brennlinienkraftwerk |
| DE202010003483U U1 20100715 | DE201020003483U 20100225; DE200920012414U 20090911 | F24J2/05; F24J2/24 | LEMKE MANFRED [DE] | Aufstellmechanismus von Solarpaneelen für feste und mobile Standorte |
| DE202010003529U U1 20100722 | DE201020003529U 20100312 | F24J2/46; F24J2/40 | ERZ DAVID [DE]; I A AUTENRIETH KUNSTSTOFFTECHN [DE] | Solarkollektor und Schlauchführung |
| DE202010003834U U1 20100701 | DE201020003834U 20100318 | F24J2/46 | NATURHAUS SOLAR GMBH [DE] | Freilandsolarmodul |
| DE202010003889U U1 20100715 | DE201020003889U 20100315 | F24J2/46; F24J2/32 | DOLL HOLDING GMBH DR [DE] | Sonnenflachkollektor |
| DE202010003929U U1 20100708 | CZ20090021102U 20090414 | F24J2/05; F24J2/16; F24J2/24 | UTIKAL JAROSLAV [CZ] | Externer Wärmetauscher |
| DE202010004116U U1 20100812 | DE201020004116U 20100316 | F24J2/46; C02F5/00; F24J2/00; F24J2/24 | HITZLER WILFRIED [DE] | Vorrichtung zum Entfernen von zumindest Schnee- oder Eisbelag auf zumindest einem Sonnenkollektor |
| DE202010004809U U1 20100819 | DE201020004809U 20100408 | F16K11/08; F24J2/40; F24J2/46 | DAKU GMBH [DE] | Solarmodulgestellhalter Solarfix |

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| DE202010005028U U1 20100708 | DE201020005028U 20100415 | F24J2/00; F22B1/00; F24J2/05; F24J2/10; F24J2/24; F24J2/30; F24J2/34; F24J2/42; F25B27/00 | FREIMUND WOLFGANG [DE] | Thermischer Sonnenröhrenkollektor in modularer Flachbauweise |
| DE202010005305U U1 20100701 | DE201020005305U 20100426 | F24J2/46 | SCHUECO INT KG [DE] | Absorber |
| DE202010005384U U1 20101014 | DE201020005384U 20100505 | F24J2/30; F24J2/34 | IFF KOLLMANNSSBERGER KG [DE] | Anschlussvorrichtung zum Anschliessen einer Wärmequelle an einen Wärmepumpenkreislauf |
| DE202010005385U U1 20100812 | DE201020005385U 20100506 | F24J2/52; E04F13/18 | WISCHEMANN HEINRICH [DE] | Ständer eines Solarmoduls |
| DE202010005391U U1 20100729 | DE201020005391U 20100506 | F16M13/00; F24J2/52 | GEROLD JUERGEN [DE] | Montagesatz für Solarmodule auf einer ebenen Fläche |
| DE202010005547U U1 20100902 | DE201020005547U 20100602 | F16D11/00; F24J2/54; H01L31/04 | INFINITA DEV GMBH [CH] | Ringförmiges Rad-Schiene-System |
| DE202010005548U U1 20100930 | DE201020005548U 20100602 | H01L31/04; F16M11/20; F24J2/54; G05D3/00 | INFINITA DEV GMBH [CH] | Antriebsanordnung für eine der Sonne nachführbare Photovoltaikanlage |
| DE202010005563U U1 20100902 | DE201020005563U 20100604 | F24J2/52; F16M13/00 | SCHUECO INT KG [DE] | Montagevorrichtung für Solarkollektoren |
| DE202010005579U U1 20100902 | DE201020005579U 20100608 | F24J2/42 | HOFFER ANDREAS MARTIN [DE]; HOFFER MICHAEL [DE] | Wärmekollektormodul zur deckseitigen Montage auf einer Dachplatte |

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| DE202010005612U U1 20100902 | DE201020005612U 20100610 | E04D13/18; F16B5/02; F24J2/52 | BAUR JAN HENRIK [DE] | Dachbefestigung |
| DE202010006030U U1 20100722 | DE201020006030U 20100424 | F24J2/52 | EISENHAEUER MICHAEL [DE] | Luftdichtungsmanschette für den Wellrohranschluss an einem Sonnenenergie-Kollektor |
| DE202010006155U U1 20100812 | DE201020006155U 20100428 | F24J2/46 | PAUL CHRISTIANI GMBH & CO KG D [DE] | Schulungsstand Hybridkollektor zu Lehrsystem Wärmepumpe und Solarthermie |
| DE202010006229U U1 20100812 | DE201020006229U 20100429 | F24J2/46 | WIEDEMANN SVEN [DE] | Profilrohrsammler |
| DE202010006334U U1 20100805 | DE201020006334U 20100503 | F24J2/02; F24J2/52 | MELZER CHRISTOPH [DE] | Wärmetechnische Anlage |
| DE202010006377U U1 20100805 | DE201020006377U 20100503 | F24J2/40 | ABAKUS SOLAR AG [DE] | Unterkonstruktion für Solaranlage |
| DE202010006393U U1 20100805 | DE201020006393U 20100506 | F24J2/52; F16M13/00 | SWOROWSKI SERGEJ [DE] | Thermobox zur Gewinnung und Speicherung von Sonnenenergie |
| DE202010006410U U1 20100805 | DE201020006410U 20100316 | F24J2/46 | RICHARD BRINK GMBH & CO KG [DE] | Bausatz einer Halteeinrichtung für Solarelemente |
| DE202010006442U U1 20100819 | DE201020006442U 20100504 | F21S19/00; F21S11/00; F24J2/38 | IDEEMATEC DEUTSCHLAND GMBH [DE] | Gestell zur Befestigung von Solarmodulen |
| DE202010006443U U1 20100805 | DE201020006443U 20100504 | F16M13/02; F16M11/00; F24J2/52; H01L31/05 | IDEEMATEC DEUTSCHLAND GMBH [DE] | Vorrichtung zur Aufständigung von Solarmodulen |
| DE202010006461U U1 20100819 | DE201020006461U 20100505 | F24J2/40 | MOTIEE TEHRANI MEHRAN [DE] | Eurosolardach |
| DE202010006613U U1 20100812 | EP20100000453 20100119 | F24D11/00; F24J2/00 | HAFENBAHN GMBH & CO KG [DE] | Platte zur Errichtung einer Vorrichtung zur Anordnung von Solarpaneelen und/oder Wärmekollektoren auf einem Untergrund sowie eine daraus errichtete Vorrichtung |

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| DE202010006771U U1 20100826 | DE201020006771U 20100514; DE201020000993U 20100114 | F24J2/48 | VM EDELSTAHLTECHNIK GMBH [DE] | Vorrichtung zur Befestigung von Bauteilen |
| DE202010006792U U1 20100805 | DE201020006792U 20100514 | F16B5/02; F24J2/52 | DRESSEL PHILIPP [DE]; EDER ANNA [DE]; KLING MARIE [DE]; VOGT VICTOR [DE]; VOELKER LAVINIA [DE]; WECKLER JOACHIM [DE]; WEISSERMEL PHILIP [DE] | Überdruckgesteuerter Hohlspiegel |
| DE202010006877U U1 20100805 | DE201020006877U 20100517 | F24J2/00; F24J2/46 | ALTEC SOLARTECHNIK AG [DE] | Vorrichtung zur mechanischen Sicherung eines Solarmoduls |
| DE202010007139U U1 20100902 | DE201020007139U 20100526 | F24J2/24; F24J2/05; F24J2/46 | GREEN FACTORY GMBH [DE] | Vorrichtung zur Befestigung eines Moduls zur Nutzung von Sonnenenergie |
| DE202010007350U U1 20100902 | DE201020007350U 20100528 | F24J2/34; F24J2/52; F24J2/54 | TAUBITZ VOLKER [DE] | Parabolrinnenkollektor |
| DE202010007392U U1 20100902 | DE201020007392U 20100526 | F24J2/52; F16M13/00 | MOUNTING SYSTEMS GMBH [DE] | Profilschiene, Indachgestell für gerahmte Solarmodule sowie Solarmodulanordnung |
| DE202010007512U U1 20100909 | DE201020007512U 20100602 | F24J2/00; F24J2/14 | GRENZEBACH BSH GMBH [DE] | Vorrichtung zur solarthermischen Erzeugung von Prozesswärme |
| DE202010007564U U1 20100930 | DE201020007564U 20100604 | F24J2/46 | GSCHWENDTNER JOSEF [DE]; VOGLSINGER ANTON [DE]; VOGLSINGER JUN [DE] | Reinigungsvorrichtung und Reinigungsanlage für thermische Solaranlagen und Photovoltaikanlagen |
| DE202010007622U U1 20100916 | DE201020007622U 20100604; DE200920015289U 20090918 | F24J2/52; F03D11/00; F16M13/00 | FM KUNSTSTOFFTECHNIK GMBH [DE] | Verbindungselement für eine Halterung für ein regeneratives Energiemodulsystem |

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|--------------------------------|-----------------------------|--|---------------------------|---|
| DE202010007741U U1 20100826 | DE201020007741U 20100603 | F16M13/02; F24J2/52 | PIETRZAK ARNDT [DE] | Modulklemme für Solarmodule |
| DE202010007935U U1 20100930 | DE201020007935U 20100629 | F16M11/20; F24J2/54; H01L31/04 | INFINITA DEV GMBH [CH] | Traggestell für eine nachgeführte Solaranlage |
| DE202010008389U U1 20101111 | DE201020008389U 20100827 | F16S3/04; F24J2/52 | IBC SOLAR AG [DE] | Vorrichtung zum Befestigen einer Tragschiene |
| DE202010008482U U1 20101125 | DE201020008482U 20100908 | F24J2/52; H01L31/05 | IBC SOLAR AG [DE] | Verstärkung eines Flächenelements mit Rahmen |
| DE202010008521U U1 20101111 | DE201020008521U 20100913 | H01L31/058; F24J2/00 | GRIMM CLAUS PETER [DE] | Solarer Hybridkollektor zur Erzeugung elektrischer und/oder thermischer Energie |
| DE202010009651U U1 20101014 | DE201020009651U 20100629 | F24J2/54 | KARK AG [DE] | Schwenkmechanik für ein Solarpaneel |
| DE202010009832U U1 20100916 | DE201020009832U 20100703 | F16C11/04; F24J2/54 | SKF AB [SE] | Lageranordnung und Solaranlage |
| DE202010010129U U1 20101014 | DE201020010129U 20100121 | F24J2/52; F16M13/00 | LUTZENBERGER HELMUT [DE] | Solar-Energie-Module ringsum mit flexiblen Abschluss-Leisten, Marder-Kabelbiss-Eindring-Sperren Blitz-Erdung, UV-Kabelschutz, Werbefläche-Design, Kupfer-Anti-Moos-Schutz |
| DE202010010140U U1 20101111 | IT2009MI00238U 20090715 | F24J2/52; F16M13/00 | ROJ S R L [IT] | Perfektionierte schwenkbare Stütze für Solarpaneele |
| DE202010010541U U1 20101021 | DE201020010541U 20100722 | F24J2/46 | GANTENHAMMER VINZENZ [DE] | Vorrichtung zur Reinigung von auf einer Fläche angeordneten Solarmodulen |
| DE202010010648U U1 20101209 | DE201020010648U 20100726 | E04D13/14; E04D13/18; F24J2/52; H01L31/04 | STAUDT JOSEF [DE] | Schutzelement zur Anordnung an einem mit Abstand zu einer Dachfläche montierten Bauelement |
| DE202010010835U U1 20101104 | DE201020010835U 20100729 | F24J2/24 | XPERTEC GMBH [DE] | Vollaluminiumabsorber zur Wärmeerzeugung aus Sonnenlicht zur Anwendung bei Solarkollektoren |
| DE202010010858U U1 20101021 | DE201020010858U 20100730 | E04D13/18; F24J2/52 | ETANCO GMBH [DE] | Befestigungsvorrichtung für Anlagen auf Trapez- oder Wellblechdächern oder Trapez- oder Wellblechfassaden |

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| DE202010010969U U1 20101021 | DE201020010969U 20100730 | F16M13/00; F24J2/52 | PIETRZAK ARNDT [DE] | Modulklemme für Solarmodule |
| DE202010011235U U1 20101021 | DE201020011235U 20100809 | F16B5/06; F16B2/06; F24J2/52; H01L31/05 | SULFURCELL SOLARTECHNIK GMBH [DE] | Klemmeinrichtung und Solarmoduleinheit |
| DE202010011319U U1 20101021 | DE201020011319U 20100812 | F16M13/00; F24J2/52 | IFB RE ENERGY GMBH [DE] | Solarmodul-Unterkonstruktion |
| DE202010012272U U1 20101125 | DE201020012272U 20100907; DE200920012226U 20090910; DE200920011880U 20090910 | F24J2/52; F16M13/00; H01L31/05 | SCHUECO INT KG [DE] | Modulanordnung aus Solarmodulen |
| DE202010012475U U1 20101230 | DE201020012475U 20100910 | F24J2/52; E04D13/18; F16M13/00; F16S1/06 | BFU FIXING GMBH [DE] | Variabler Trapezblechhalter |
| DE202010012559U U1 20101216 | DE201020012559U 20100911 | E04D13/18; F24J2/42; F24J2/52; H01L31/05 | SOLON SE [DE] | Solares Umkehrdach |
| DE202010012726U U1 20101118 | DE201020012726U 20100914 | F24J2/02 | HENRICH MATTHIAS [DE] | Fresnel-Linse Solarkocher mit Umlenkspiegel |
| DE202010013796U U1 20101202 | DE201020013796U 20100930 | F16M11/08; F16M11/18; F24J2/54 | ELL ANDREAS [DE]; ELL ILONA [DE] | Tragkonstruktion für Solarmodule |
| DE202010013883U U1 20101202 | DE201020013883U 20101002 | F24J2/46; B08B3/12 | RAUSCH RAINER [DE] | Reinigungsvorrichtung für einen Solarkollektor |
| DE202010013976U U1 20101216 | DE201020013976U 20101006 | F16B9/02; F24J2/52; H01L31/05 | WEMEFA HORST CHRISTOPEIT GMBH [DE] | Befestigungsvorrichtung zur lösbaren Halterung von plattenförmigen Modulen |

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| DE202010014264U U1 20101216 | DE201020014264U 20101013 | F24J2/04; F16L55/07 | PAW GMBH & CO KG [DE] | Vorrichtung zum Entlüften eines drucklosen Flüssigkeitskreislaufes |
| DE202010014368U U1 20101216 | DE201020014368U 20101015 | F24J2/16 | CHEN JUN [DE] | Solar-Reflektor |
| DK200900747 A 20101112 | DK20090000747 20090427 | F24J2/02 | GNIDNINGSVARME & HULSPEJLE MM V SOEREN VASE STAGE [DK] | Koge, stegemaskine (kökkenredskab) |
| EE00956U U1 20100715 | EE20090000109U 20091105 | E04F17/04; F24F7/08; F24F12/00; F24J2/42 | BLOHHIN ALEKSEI [EE]; LEHTSAAR ALEKSANDR [EE] | Mitmekorruselise korterelamu ventilatsioonisüsteem |
| EP2203691 A1 20100707 | WO2008DK00255 20080707; DK20070001008 20070707 | F24J2/05 | LUND MADSEN CARSTEN [DK] | SOLAR COLLECTOR PANEL WITH TEMPERATURE CONTROLLED BI-DIRECTIONAL AIRFLOW |
| EP2203692 A2 20100707 | WO2008IL01214 20080910; US20070852595 20070910 | F24J2/40 | ZENITH SOLAR LTD [IL] | SOLAR ELECTRICITY GENERATION SYSTEM |
| EP2204624 A1 20100707 | WO2008JP69449 20081027; JP20070286676 20071102 | F24J2/18; G02B5/08 | KONICA MINOLTA OPTO INC [JP] | SOLAR COLLECTING SYSTEM |
| EP2206991 A2 20100714 | US20090193966P 20090113; US20090654215 20091214 | F24J2/00; C12M1/107 | GUARDIAN INDUSTRIES [US] | Mounting brackets for mirrors, and associated methods |
| EP2206992 A2 20100714 | IT2008PD00379 20081222 | F24J2/52 | FISCHERWERKE GMBH & CO KG [DE] | Anti-slip support device |
| EP2208947 A2 20100721 | TW20090200610U 20090114 | F24J2/16; F24J2/54 | SUNYEN CO LTD [TW] | Three-dimensional solar energy receiving device |

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|--------------------------|---|---|---|---|
| EP2210275 A2 20100728 | WO2008EP09418 20081107; DE200710054124 20071111 | H01L31/0216; F24J2/46 | MASSEN GMBH [DE] | SOLAR COLLECTOR |
| EP2211122 A1 20100728 | EP20090075045 20090127 | F24J2/52 | MOUNTING SYSTEMS GMBH [DE] | Construction set for placing solar modules on stands |
| EP2212262 A2 20100804 | WO2008FR52093 20081120; FR20070008192 20071122 | C04B35/536; C04B35/52; F24J2/48; F28F21/02; H01M2/16; H01M8/10 | UNIV PAUL SABATIER DE TOULOUSE [FR]; TOULOUSE INST NAT POLYTECH [FR]; CENTRE NAT RECH SCIENT [FR] | PROCESS FOR MANUFACTURING A THERMALLY AND/OR ELECTRICALLY CONDUCTING SOLID |
| EP2212485 A1 20100804 | WO2008NL50696 20081105; EP20070120054 20071106; EP20080846330 20081105 | E04C2/52; F24J2/04 | TNO [NL] | WALL OR FLOOR SYSTEM FOR A HOUSE OR BUILDING |
| EP2212563 A1 20100804 | WO2009CA00631 20090507; CA20082628605 20080509 | F04F1/14; F04F10/02; F24H1/08; F24H1/18; F24H7/04; F24J2/30; F24J2/44 | HUAZI LIN [CA]; W & E INTERNAT CANADA CORP [CA] | SELF-POWERED PUMP FOR HEATED LIQUID, FLUID HEATING AND STORAGE TANK AND FLUID HEATING SYSTEM EMPLOYING SAME |
| EP2212625 A1 20100804 | WO2008GB51082 20081118; GB20070022906 20071122 | F24J2/10; G02B5/08 | PILKINGTON GROUP LTD [GB] | SOLAR MIRROR |

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|--------------------------|--|---|---------------------------|--|
| EP2212626 A1 20100804 | WO2008US81036 20081023; US20070000358P 20071024; US20080257368 20081023 | F24J2/38 | ESOLAR INC [US] | CALIBRATION AND TRACKING CONTROL OF HELIOSTATS IN A CENTRAL TOWER RECEIVER SOLAR POWER PLANT |
| EP2212919 A1 20100804 | WO2008EP63744 20081013; FR20070058350 20071016; FR20080052216 20080403 | H01L31/042; F24J2/52 | SAINT GOBAIN [FR] | IMPROVEMENTS TO LIGHT-COLLECTING ELEMENTS |
| EP2213960 A2 20100804 | DE200920001071U 20090128 | F24J2/10; F24J2/24; F24J2/30; F24J2/46 | RALOS VERTRIEBS GMBH [DE] | Device for elevating solar modules |
| EP2213961 A2 20100804 | DE200920001072U 20090128 | F24J2/52; H01L31/042 | RALOS VERTRIEBS GMBH [DE] | Device for elevating solar modules |
| EP2215409 A1 20100811 | WO2008US79003 20081006; US20070977592P 20071004; US20080025431P 20080201; US20080047086P 20080422 | F24J2/00 | SUNGEVITY [US] | SYSTEM AND METHOD FOR PROVISIONING ENERGY SYSTEMS |

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|--------------------------|---|--|----------------------------------|---|
| EP2217771 A2 20100818 | WO2008IB02813 20081022; IT2007VE00077 20071023; IT2007VE00084 20071031; IT2008VE00026 20080327 | E04D1/30; E04D1/34; F24J2/00; H01L31/048 | MIND S R L [IT] | MODULAR ELEMENTS FOR BUILDING ROOFS |
| EP2217865 A1 20100818 | WO2007US81838 20071018 | F24J2/02; C23C14/00; C23C16/00 | MIDWEST RESEARCH INST [US] | HIGH TEMPERATURE SOLAR SELECTIVE COATINGS |
| EP2217866 A2 20100818 | WO2008EP09986 20081125; DE200710058182 20071204 | F24J2/14; F24J2/18; F24J2/24; F24J2/46; F24J2/54; F25B27/00 | FRAUNHOFER GES FORSCHUNG [DE] | SYSTEM FOR USE OF SOLAR ENERGY WITH A DEVICE FOR DISSIPATING HEAT TO THE ENVIRONMENT, METHOD FOR OPERATING SAID SYSTEM AND USE THEREOF |
| EP2217867 A1 20100818 | WO2008US12611 20081107; US20070996273P 20071108; US20080071410P 20080428; US20080071412P 20080428; US20080071411P 20080428; US20080257235 20081023 | F24J2/46 | SUNRGI [US] | COMPOSITE MATERIAL COMPOSITIONS, ARRANGEMENTS AND METHODS HAVING ENHANCED THERMAL CONDUCTIVITY BEHAVIOR |
| EP2217875 A2 20100818 | WO2008EP09102 20081028; DE200710054429 20071113 | F28D20/00; F24J2/42; F28D20/02; F28F27/00 | KRONES AG [DE] | BREWING PROCESS AND BREWERY INSTALLATIONS |

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|----------------------------|---|--|--|---|
| EP2218845 A2 20100818 | DE200910009219 20090217 | F24J2/52; E04D13/18 | 3A TECHNOLOGY & MAN AG [CH] | Profile assembly, system with at least one profile assembly |
| EP2218978 A1 20100818 | EP20090153046 20090217 | F24J2/07; F22B1/00 | COCKERILL MAINTENANCE & INGENI [BE]; ABENGOA SOLAR NEW TECHNOLOGIES [ES] | Flag heat exchanger |
| EP2218980 A2 20100818 | DE200910008548 20090212 | F24J2/40; F24J2/46 | HENDRIK MEYER [DE] | Support device, control device and method for supporting the generation of energy from sunlight |
| EP2220426 A1 20100825 | WO2008EP09209 20081031; DE200710052670 20071105; DE200810020587 20080424 | F21S9/04; F03D1/04; F03D9/00; F03G7/04; F21S8/08; F24J2/54; H02J7/35 | ZUMTOBEL LIGHTING GMBH [DE] | LAMP USING UPDRAFT FOR ENERGY SUPPLY |
| EP2220442 A1 20100825 | WO2008US84402 20081121; US20070949295 20071203 | F24J2/04 | UNIV CALIFORNIA [US] | SOLAR THERMAL ENERGY COLLECTOR |
| EP2221552 A2 20100825 | US20090388500 20090218; US20090473240 20090527; US20090611842 20091103 | F24J2/00; H01L21/00 | PALO ALTO RES CT INC [US] | Rotational Trough Reflector Array with Solid Optical Element for Solar-Electricity Generation |
| EP2221554 A1 20100825 | WO2008RU00686 20081106; RU20070141458 20071112 | F24J2/06; F24J2/46 | KARNAUKHOV ALEKSEI VALERYEVICH [RU] | SOLAR ENERGY CONCENTRATOR |

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|--------------------------|---|---|-----------------------------------|---|
| EP2221558 A1 20100825 | WO2008ES00624 20081003; ES20070002720 20071004 | F24J2/54; F24J2/14 | ALBIASA COLLECTOR TROUGH S L [ES] | BEAM, METHOD FOR SECURING MIRROR-SUPPORTING ARMS TO THE BEAM, FRAME AND METHOD FOR PRODUCING THE BEAM FORMING PART OF A CYLINDRICAL PARABOLIC SOLAR COLLECTOR |
| EP2223019 A1 20100901 | WO2008US85049 20081126; US20070004377P 20071126 | F24J2/38 | ESOLAR INC [US] | HELIOSTAT ARRAY LAYOUTS FOR MULTI-TOWER CENTRAL RECEIVER SOLAR POWER PLANTS |
| EP2223175 A1 20100901 | WO2008EP10469 20081210; DE200710061153 20071217 | G02B5/09; B21C23/00; F21V7/04; F21V7/22; F24J2/10 | ERBSLOEH ALUMINIUM GMBH [DE] | FRESNEL MIRROR AND METHOD FOR THE PRODUCTION THEREOF |
| EP2223345 A1 20100901 | WO2008EP09028 20081024; NL20072001092 20071214 | H01L31/042; E04D13/18; F24J2/52 | RENUSOL GMBH [DE] | SUPPORT FOR A SOLAR PANEL |
| EP2224185 A1 20100901 | DE200810044380 20081205; DE200910026085 20090701; DE200910026169 20090714; DE200910025947 20090610 | F24J2/52; H01L31/042 | CLIMASOL SOLARANLAGEN GMBH [DE] | Clamp connection (form closure) |
| EP2225178 A1 20100908 | WO2008SE00685 20081205; SE20070002730 20071207 | C02F1/02; F24J2/34; F24J2/44; F24J2/46 | WADSTROEM PETRA [SE] | CONTAINER FOR PURIFICATION OF WATER BY SUNLIGHT |
| EP2226591 A1 20100908 | IT2009CO00003 20090303 | F24J2/05; F24J2/26; F24J2/46; | SAPORITO SANTOLO [IT] | Flat vacuum photo-thermal solar panel |

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|--------------------------|---|---|------------------------|--|
| | | F24J2/50 | | |
| EP2226592 A1 20100908 | EP20090003118 20090304 | F24J2/14; F24J2/54 | HAWA HYDRAULIK SE [DE] | Electrohydraulic tracking device for a solar generator |
| EP2227324 A1 20100915 | WO2008FR01606 20081114; FR20070008031 20071116; FR20080000384 20080125 | B01J19/12; B01J8/00; B01J8/44; B01J19/08; B01J19/10; B01J19/18; B01J19/20; C10J3/02; C10J3/20; C10J3/54; F24J2/00 | UGOLIN NICOLAS [FR] | METHOD USING SOLAR ENERGY, MICROWAVES AND PLASMAS FOR PRODUCING A LIQUID FUEL AND HYDROGEN FROM A BIOMASS OR FOSSIL COAL |
| EP2227661 A2 20100915 | WO2008SE51311 20081114; SE20070002518 20071116 | F24J2/08; F24J2/05; F25B27/00 | INTERMULTILOCK AB [SE] | SOLAR THERMAL HEATING |
| EP2228611 A1 20100915 | EP20090002418 20090223 | F24J2/08; F24J2/20; F24J2/50 | REIDY NEIL [IE] | Solar panel |
| EP2229560 A1 20100922 | WO2008DK00368 20081020; DK20070001795 20071215; WO2008DK00022 20080122 | F24J2/04 | HELIOPOWER AS [DK] | PANEL FOR COLLECTING SOLAR ENERGY FROM A BITUMINOUS SURFACE COVERING ON A BUILDING HEATED BY SOLAR RADIATION |
| EP2229561 A2 20100922 | WO2009IB06944 20090923; IT2008MI01716 20080926 | F24J2/05; F24J2/26 | TVP SOLAR S A [CH] | VACUUM SOLAR THERMAL PANEL WITH RADIATIVE SCREEN |

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|--------------------------|--|---|--|---|
| EP2230362 A2 20100922 | DE200910014323 20090321 | F24J2/46 | HADWIGER ULF PETER [DE] | Cover element |
| EP2230469 A2 20100922 | DE200920003862U 20090319 | F24J2/46; F24J2/51 | MOUNTING SYSTEMS GMBH [DE] | Support device for functional structures on roofs |
| EP2230694 A2 20100922 | EP20020789682 20021115; US20010993875 20011116; US20020380862P 20020517 | H01L31/042; H01L31/048; H01L31/05 | FIRST SOLAR INC [US] | Photovoltaic array |
| EP2231952 A1 20100929 | WO2008HU00141 20081128; HU20070000778 20071204 | E04C2/52; F24J2/04; F28D20/00 | BARKANYI TAMAS [HU] | BUILDING STRUCTURE WITH ACTIVE HEAT INSULATION |
| EP2232162 A2 20100929 | WO2008EP10467 20081210; EP20070023874 20071210; EP20080860634 20081210 | F24J2/00; F24J2/04; F24J2/34 | BOURNE STEPHEN GLYN [HK] | WALL OR ROOF OF A BUILDING WITH AT LEAST ONE HEAT CONTROLLING ELEMENT |
| EP2233665 A1 20100929 | FR20090051208 20090226; FR20090053864 20090611 | F24J2/52; H01L31/042 | RAVOYARD HOLDING [FR] | Modular construction |
| EP2233738 A1 20100929 | WO2008RU00807 20081229 | F03D9/00; F01D5/00; F01D9/00; F24J2/22 | KIKNADZE GENNADY IRAKLIEVICH [RU] | CONVERTER AND AN ENERGY CONVERSION METHOD, A TORQUE FLOW PUMP AND A TURBINE |
| EP2233859 A1 20100929 | WO2008ES00801 20081226; ES20070003464 20071228 | F24J2/14; F24J2/10; F24J2/52; F24J2/54 | TECNOLOGIA SOLAR CONCENTRADORA [ES] | SOLAR ENERGY CONCENTRATOR/COLLECTOR DEVICE |

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|--------------------------|---|---|---|---|
| EP2234174 A2 20100929 | DE200920004150U 20090327; EP20090009989 20090803; EP20100002868 20100318 | F16M11/00; F24J2/52; H01L31/05 | NATURHAUS SOLAR GMBH [DE] | Roof covering system for solar modules |
| EP2235580 A1 20101006 | WO2008IL01585 20081204; IL20070187890 20071204 | G02B26/08; F24J2/18 | CONVERTPOWER LTD [IL] | A NOVEL METHOD OF DESIGNING AND PRODUCING REFLECTORS FOR RECEIVING/TRANSMITTING ENERGY AND REFLECTORS PRODUCED BY THIS METHOD |
| EP2236955 A1 20101006 | EP20090155866 20090323 | F24J2/10; F24J2/18; F24J2/54; H01L31/052 | METZLER RICHARD [DE] | Photovoltaic unit |
| EP2236956 A1 20101006 | EP20090004803 20090401 | F24J2/38 | DEGER ARTUR [DE] | Solar assembly alignment tool |
| EP2238392 A2 20101013 | WO2009DE00140 20090130; DE200810007334 20080202 | F24J2/52; F24J2/04; H01L31/042; H01L31/048 | SCHOTT SOLAR GMBH [DE]; WURSTER WALTER GMBH [DE] | FASTENING SYSTEM FOR A PLATE-SHAPED STRUCTURAL ELEMENT |
| EP2238393 A2 20101013 | WO2008EP04399 20080603; DE200810006106 20080125 | F24J2/52 | SOLARMARKT AG [DE] | SOLAR MODULE FASTENING SYSTEM |
| EP2238394 A2 20101013 | WO2008EP67257 20081210; US20070001559 20071211 | F24J2/54; H01L31/042 | LASEN DEV LLC [US] | SOLAR-PANEL UNIT |
| EP2239086 A1 20101013 | DE200910016805 20090409 | B23K26/24; B23K26/32; C04B37/02; F24J2/26; F24J2/46 | ALANOD ALUMINIUM VEREDLUNG GMB [DE] | Process for laser welding of composite materials with a component and composite material suitable for such a method |

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|--------------------------|---|--|---|---|
| EP2239388 A1 20101013 | EP20090004529 20090330 | E04B1/76; F24J2/04; F24J2/34 | KALZIP GMBH [DE] | Building component based on a phase change material |
| EP2239525 A1 20101013 | EP20090004819 20090401 | F24J2/24; F24J2/46 | GREENONETEC [AT] | Closing cap |
| EP2240728 A2 20101020 | WO2008DE02019 20081208; DE200710059650 20071210 | F24J2/04; F24J2/52; H01L31/05; H01L31/058 | HABEL THOMAS [DE] | PHOTOVOLTAIC MODULAR DEVICE |
| EP2241691 A2 20101020 | BG20090110369 20090416 | F03G6/06; F01D15/10; F24J2/34 | RADUSHEV RADOSLAV YANKOV [BG]; RADUSHEV YAVOR RADOSLAVOV [BG] | Fasade thermal wall and a method for its construction |
| EP2241841 A1 20101020 | EP20090005506 20090417 | F24J2/04; F24J2/46; F24J2/51; F24J2/52 | SUMIKA POLYMER COMPOUNDS FRANC [FR] | Moulded insulating collector |
| EP2242112 A2 20101020 | DE200920004150U 20090327 | H01L31/048; E04D13/18; F24J2/52 | NATURHAUS SOLAR GMBH [DE] | Roof covering system for solar modules |
| EP2242961 A2 20101027 | WO2009IB00055 20090114; US20080021091P 20080115; US20090144238P 20090113 | F24J2/52 | NOLARIS SA [CH] | PHOTOVOLTAIC SOLAR ISLAND |
| EP2243862 A2 20101027 | DE200910018554 20090424 | C23C18/12; F24J2/48 | ZYRUS BETEILIGUNGSGMBH & CO PA [DE] | Solar absorber coating and method for producing such a solar absorber coating |
| EP2243901 A2 20101027 | DE200910017337 20090414 | F24J2/02; F24J2/05 | WIDMAYR JOSEF [DE] | Support frame, frame and carport constructed with same |

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|--------------------------|--|--|--|--|
| EP2244032 A2 20101027 | DE200910018520 20090424 | F24J2/05; F24J2/26; F24J2/46; F24J2/50 | IP BEWERTUNGS AG [DE] | Solar collector and method for manufacturing such a solar collector |
| EP2244033 A1 20101027 | EP20090425156 20090424 | F24J2/14; G02B5/08; G02B5/10; G02B7/183 | RONDA SPA [IT] | Reflecting panel with dielectric reflective coating and method for the manufacturing thereof |
| EP2245208 A2 20101103 | IT2008RM00113 20080229; WO2009IT00021 20090128 | C23C14/06; C23C14/34; F24J2/48 | AGENZIA NAZ PER LE NUOVE TECNO [IT] | METHOD FOR PRODUCING A CERMET-BASED SPECTRALLY SELECTIVE COATING AND MATERIAL THUS OBTAINED |
| EP2245320 A1 20101103 | WO2008EP06444 20080806; DE200810010884 20080225 | F16B11/00; F24J2/52 | FLAGSOL GMBH [DE] | ASSEMBLY METHOD |
| EP2245380 A1 20101103 | WO2009SE50120 20090206; SE20080050011 20080207 | F24J2/04 | SOLTECH ENERGY SWEDEN AB [SE] | SOLAR ENERGY SYSTEM |
| EP2245381 A1 20101103 | WO2009FR50095 20090123; FR20080050615 20080131 | F24J2/20; F24J2/04; F24J2/46 | MAGNIER PATRICK CLAUDE HENRI [FR] | HEAT EXCHANGE PANEL, METHOD FOR MAKING SAME AND DEVICE FOR COVERING A BUILDING |
| EP2245382 A2 20101103 | WO2008GB02943 20080829; GB20070016811 20070829 | F24J2/32 | CCT HINCKLEY LTD [GB] | SOLAR COLLECTOR |
| EP2245383 A1 20101103 | WO2009FI00004 20090109; FI20080000020 20080110 | F24J2/36; E04D13/18; F24J2/04; F24J2/24 | SETAELAE SEPPO [FI] | COLLECTION SYSTEM FOR HEAT ENERGY |

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|--------------------------|---|--|-------------------------------------|--|
| EP2245384 A1 20101103 | WO2008EP06491 20080807; DE200810011547 20080228 | F24J2/38; F24J2/54; G05B13/00; G05D3/10 | FLAGSOL GMBH [DE] | SELF-LEARNING SOLAR COLLECTOR ORIENTATION CONTROL SYSTEM |
| EP2245385 A2 20101103 | NL20082001271 20080208; WO2009NL50056 20090209; NL20082001908 20080822 | F24J2/40 | VERENIGING VU WINDESHEIM [NL] | REFLECTING DEVICE, SOLAR COLLECTOR, PITCHED ROOF PROVIDED WITH A SOLAR COLLECTOR OF THIS TYPE, AND GREENHOUSE |
| EP2246643 A2 20101103 | DE200910019246 20090430 | F24J2/52 | VAILLANT GMBH [DE] | Solar assembly with drain back system and a method for operating same |
| EP2246644 A2 20101103 | DE200910016618 20090408 | F24J2/46 | CT TEC COMPOSITES GMBH [DE] | Absorber for a solar collector and corresponding solar collector |
| EP2246645 A2 20101103 | AT20090000662 20090430 | F24J2/05; F24J2/46; F24J2/52 | VAILLANT GMBH [DE] | Attachment device |
| EP2246904 A1 20101103 | WO2008ES00763 20081205; ES20080000242 20080130 | H01L31/052; F24J2/40 | ABENGOA SOLAR NEW TECHNOLOGIES [ES] | LOW CONCENTRATION SOLAR PLANT AND METHOD FOR MAXIMIZING THE ELECTRICITY PRODUCTION OF THE PHOTOVOLTAIC MODULES THEREOF |
| EP2248187 A2 20101110 | IT2008BO00041 20080123; WO2009IB00111 20090122 | H01L31/052; F24J2/10 | CPOWER S R L [IT] | SUNLIGHT CONCENTRATOR FOR A PHOTOVOLTAIC GENERATION SYSTEM |
| EP2248613 A1 20101110 | FR20090002085 20090429 | G09B23/06; F24J2/00 | DABRIGEON MARK [FR] | Method and apparatus for manufacturing a serpentine |
| EP2249100 A1 20101110 | EP20090382066 20090508 | F24J2/10; F24J2/46 | RIOGLASS SOLAR S A [ES] | Device and method for protecting solar reflectors |
| EP2249102 A2 20101110 | DE200910020530 20090508 | F24J2/32 | FISCHERWERKE GMBH & CO KG [DE] | Connector for a profile rail |

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| EP2249103 A2 20101110 | DE200920006082U 20090428 | F24J2/54 | PIETRZAK ARNDT [DE]; SOLAR INTEGRATED TECHNOLOGIES [DE] | System for single axle guidance of a number of energy conversion modules according to the position of the sun |
| EP2250447 A1 20101117 | AU20080900121 20080111; WO2009AU00022 20090108; AU20080906451 20081215 | F24H1/18; F24J2/40 | COOL OR COSY ENERGY TECHNOLOGY [AU] | TEMPERATURE CONTROL FOR A SOLAR COLLECTOR |
| EP2251620 A2 20101117 | IT2009BS00083 20090507 | E04H6/02 | FIVE T S R L [IT] | Method and system for accumulating in layers and circulating hot water |
| EP2252839 A2 20101124 | WO2009EP51222 20090204; DE200810011983 20080229 | F24J2/00 | FLEXX TECHNOLOGIES GMBH O [DE] | THERMAL SOLAR SYSTEM |
| EP2252840 A2 20101124 | US20080066375P 20080220; WO2009US00988 20090217 | F24J2/05; F24J2/46; F24J2/48 | CORNING INC [US] | SOLAR HEAT COLLECTION ELEMENT WITH GLASS-CERAMIC CENTRAL TUBE |
| EP2253024 A1 20101124 | WO2009EP51742 20090215; EP20080151538 20080215; EP20090709703 20090215 | H01L31/058; E04D13/18; F24J2/04; F24J2/24 | PANOTRON AG [CH] | Energy supply device with energy panels in the form of roof tiles |
| EP2253737 A1 20101124 | DE200910022059 20090520 | F24J2/46 | SCHOTT SOLAR AG [DE] | Radiation-selective absorber coating and absorber tube with radiation-selective absorber coating |
| EP2253901 A1 20101124 | EP20090160837 20090520 | F24J2/46 | SUNTOP SOLAR ENERGY CO LTD [TW] | Cleaning apparatus for solar panels |
| EP2253902 A2 20101124 | DE200920007516U 20090520 | F16M13/02; F16M11/00; F24J2/52; H01L31/05 | TRIENERGY GMBH [DE] | Component set for fitting solar modules on a roof |

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| EP2253903 A2 20101124 | DE200910021406 20090514 | G02B5/10; F24J2/12 | SUNFLOW AG [DE] | Device for securing and tracing photovoltaic modules |
| EP2255122 A1 20101201 | WO2008US06660 20080523; US20080064351P 20080229 | F16M11/12; F03G6/06; F24J2/06 | CBE GLOBAL HOLDINGS INC [US] | MULTI-AXIS METAMORPHIC ACTUATOR AND DRIVE SYSTEM AND METHOD |
| EP2255123 A2 20101201 | WO2008US06660 20080523; US20080064351P 20080229; US20080136964P 20081017; WO2009US00825 20090210 | F16M11/18; F16M11/10; F16M11/42; F24J2/52; H01L31/04 | CBE GLOBAL HOLDINGS INC [US] | SINGLE-AXIS DRIVE SYSTEM AND METHOD |
| EP2255136 A2 20101201 | WO2009EP51900 20090218; DE200810010314 20080221 | F24J2/46; F24J2/10 | GERBRACHT HEINER [DE] | CONTAINER AND SOLAR-GENERATED POWER PLANT |
| EP2255229 A1 20101201 | WO2009GB00487 20090223; GB20080003551 20080226 | G02B3/08; F24J2/08 | MICROSHARP CORP LTD [GB] | PRISMATIC LENS |
| EP2256267 A1 20101201 | DE200920007218U 20090520 | F24J2/46 | ALTEC SOLARTECHNIK AG [DE] | Assembly for energy saving ventilation of buildings with airflow between panes of glass front element |
| EP2256353 A2 20101201 | DE200910023021 20090528 | F24J2/52; E04D13/18 | ADENSIS GMBH [DE] | Clamp connection for module rails on photovoltaic assemblies |
| EP2256428 A1 20101201 | EP20090382082 20090526 | F24J2/05; F24J2/14 | ARIES INGENIERIA Y SIST S S A [ES] | Irradiated energy collector device |
| EP2256429 A1 20101201 | EP20090380111 20090526 | F24J2/07; F24J2/50 | SENER INGENIERIA Y SIST S S A [ES] | Quartz window system for the closure of a solar receiver |

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| EP2256430 A1 20101201 | EP20090006779 20090520 | F24J2/10; F24J2/24; H01L31/058 | MUELLERS HORST [DE] | Assessing and transmitting energy waves |
| EP2256431 A1 20101201 | EP20090006791 20090520 | F24J2/52; H01L31/042 | ENPACO GMBH [CH] | Photovoltaic solar aggregate |
| EP2256432 A2 20101201 | DE200920007517U 20090520 | F24J2/12; F24J2/46 | TRIENERGY GMBH [DE] | Stand for rectangular solar modules |
| EP2256433 A2 20101201 | DE200910022746 20090526 | F24J2/05; F24J2/46 | KIESELBACH SOLAR GMBH [DE] | Mounting device for solar assemblies |
| EP2256434 A2 20101201 | IT2009MI00563 20090408 | E04D13/18; F16M11/04; F16M13/00; F24J2/52 | DI DONATO ALFONSO [IT] | Heating, air conditioning, air treatment using photovoltaic plants |
| EP2257745 A1 20101208 | WO2008IB52509 20080624; IT2008MI00290 20080222 | F24J2/14; F24J2/07; F24J2/26 | GIORGETTI PAOLO [IT]; RIGANTI GIANMARIO [IT] | MODULAR UNIT FOR SOLAR ENERGY PANELS AND SOLAR ENERGY PANEL COMPRISING SAID UNIT |
| EP2258490 A2 20101208 | DE200920008001U 20090605 | B08B1/04; A46B13/06; F24J2/46 | BERNDL GEORG [DE] | Device for cleaning surfaces of a construction |
| EP2260247 A2 20101215 | BE20080000110 20080226; WO2009BE00011 20090226 | F24J2/04 | M ECO CVBA [BE] | LAYERED CONSTRUCTION WITH TUBE SYSTEM |
| EP2260248 A1 20101215 | WO2009PL50002 20090227; PL20080384565 20080227 | F24J2/46; F24J2/52 | FAKRO PP SPOLKA Z O O [PL] | SIDE SECTION OF A BOX STRUCTURE |

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| EP2261576 A2 20101215 | DE200920007418U 20090525 | C23C28/00; F24J2/07; F24J2/46; F24J2/48; G02B5/00; H01L31/0216 | WEMEFA HORST CHRISTOPEIT GMBH [DE] | Fixing device for reversible mounting of board-shaped modules, in particular solar modules and photovoltaics modules |
| EP2261577 A2 20101215 | DE200910024738 20090612 | F24J2/52; H01L31/042 | ADENSIS GMBH [DE] | Support frame for a photovoltaic open air assembly |
| EP2262002 A2 20101215 | DE200920007525U 20090527 | F24J2/32 | ECCOSS GMBH [DE] | Device for supporting and fixing solar panels |
| EP2262930 A2 20101222 | WO2009NL00083 20090407; NL20081035265 20080407 | C25D17/00; B65G17/20; B65G49/02; C25D17/06; C25D17/28; F24J2/46 | MECO EQUIP ENG [NL] | METHOD AND DEVICE FOR PRODUCING SOLAR CELLS |
| EP2263049 A2 20101222 | WO2009EP01470 20090302; DE200810014618 20080317 | F24J2/10; F24J2/06; G02B5/04; G02B27/14 | FRAUNHOFER GES FORSCHUNG [DE] | CONCENTRATOR FOR SOLAR RADIATION AND USE THEREOF |
| EP2264373 A2 20101222 | IT2009MI00960 20090529 | F24J2/52 | OLCESE MARCO [IT] | Compressor device for an air conditioning systems |
| EP2265550 A2 20101229 | WO2009US40516 20090414; US20080124247P 20080415; US20080192061P 20080912; US20090209765P 20090311 | C02F1/14; B01D1/00; F03G6/02; F24J2/04 | COMBINED SOLAR TECHNOLOGIES LLC [US] | WATER RECLAMATION SYSTEM AND METHOD |

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| EP2267376 A2 20101229 | EP20090013161 20040528; EP20040739443 20040528; DK20030000888 20030613 | F24J2/46; F24J2/26; F24J2/51 | VKR HOLDING AS [DK] | Solar collector |
| EP2267377 A1 20101229 | DE200910024740 20090612 | F24J2/52 | ADENSIS GMBH [DE] | Feeder vehicle for an assembly machine for photovoltaic modules |
| EP2267378 A2 20101229 | ES20090001043U 20090624; ES20100030593U 20100608 | F24J2/52; E04D13/18 | ACIEROID S A [ES] | Device for fixing installations to waterproofed covers |
| EP2267793 A1 20101229 | FR20090003012 20090622 | H01L31/042; E04D13/18; F24J2/52; H01L31/048 | L & T PARTNERS [CH] | Attachment assembly for a panel |
| ES1072404U U 20100707 | ES20100030421U 20100504 | F24J2/26 | CASTELLSAGUER LLOVERAS JOSEP [ES] | LUMINARIA |
| ES1072448U U 20100715 | ES20100000441U 20100506 | F24J2/20 | SENDEKIA ARQUITECTURA E INGENI [ES] | PERGOLA SOLAR PARA APARCAMIENTO Y RECARGA DE BATERIA DE VEHICULOS ELECTRICOS |
| ES1072483U U 20100720 | ES20070002032 20070720; ES20090050006U 20080718 | H01L31/052; F24J2/50 | BARROSO QUINONES ANTONIO [ES] | DISPOSITIVO PARA EL APROVECHAMIENTO DE LA ENERGIA SOLAR DE TIPO FOTOVOLTAICO |
| ES1072497U U 20100721 | ES20100000323U 20100331 | F24J2/00 | ENERGY PANEL S L [ES] | SISTEMA TERMODINAMICO DE DOBLE EVAPORACION |
| ES1072512U U 20100722 | ES20100000440U 20100506 | F24J2/46 | ZAPICO MARTIN ALVARO [ES] | CAPTADOR SOLAR TERMICO DE PLASTICO RECICLADO |
| ES1072566U U 20100729 | ES20100030524U 20100526 | F16B7/04; F24J2/52 | MATRICERIA CAROLINENSE S L [ES] | DISPOSITIVO PARA LA FIJACION Y NIVELACION DE PLACAS SOLARES |

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| ES1072637U U 20100811 | ES20100030542U 20100528 | F24J2/08 | EURO CRANE S A [ES]; GEN CUADROS ELECTRICOS SOLAR S | REMOLQUE DOTADO DE PLACAS FOTOVOLTAICAS |
| ES1072684U U 20100818 | ES20090001727U 20091218 | F24J2/40 | MARTIN MATEOS FRANCISCO [ES]; OROZCO GOMEZ FRANCISCO | DISPOSITIVO SOLAR |
| ES1072792U U 20100917 | ES20100030727U 20100709 | F24J2/04 | TERMOPOWER S L [ES] | CONCENTRADOR SOLAR CILINDRICO PARABOLICO |
| ES1072840U U 20100927 | ES20100030574U 20100604 | F24J2/52 | PRODUCCIONES MITJAVILA S A [ES] | DISPOSITIVO DE UNION DE PERFILES DESTINADOS AL SOPORTE DE CUBIERTAS |
| ES1072843U U 20100929 | ES20100000287U 20100316 | F16M11/00; F24J2/52; H01L31/05 | GARCELAN RODRIGUEZ ERNESTO [ES]; GARCIA DE MATEOS ALHAMBRA PEDRO | DISPOSITIVO SENSOR PARA SEGUIMIENTO SOLAR DOTADO DE FILTRO |
| ES1072877U U 20101001 | ES20100000636U 20100528 | F24J2/14 | ORTEGA CASASNOVAS JULIO [ES] | CONVERTIDOR FOTOELECTRICO |
| ES1073129U U 20101028 | ES20100030478U 20100517 | F24J2/52; F16M13/00 | TECNOLOGIA E INNOVACION ENERGE [ES] | INSTALACION MODULAR EQUIPADA PARA RECARGAR VEHICULOS ELECTRICOS O HIBRIDOS DURANTE SU ESTACIONAMIENTO |
| ES1073220U U 20101123 | ES20100030743U 20100715 | F24J2/52 | ROJ S R L [IT] | SOPORTE ORIENTABLE PERFECCIONADO PARA PANELES SOLARES |
| ES1073364U U 20101203 | ES20100030825U 20100802 | F24J2/38 | JUGUETES PICO S L [ES] | ESTRUCTURA PORTANTE |
| ES1073422U U 20101210 | ES20100000573U 20100604 | F24J2/46 | JIMENEZ HERVAS JUAN JESUS [ES] | PROTECTOR INTELIGENTE DE PANELES SOLARES |
| ES1073551U U 20101227 | ES20100001020U 20101008 | F24J2/52 | TEULADES CUBIERTAS SOLARES S L [ES] | SOPORTE PARA LA INSTALACION DE APLICACIONES FOTOVOLTAICAS EN CUBIERTAS AISLANTES. |

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| ES2342330T T3 20100705 | EP20070090080 20070423 | F24J2/04; F24J2/52; H01L31/042; H01L31/048 | MOUNTING SYSTEMS GMBH [DE] | DISPOSICION DE MODULOS SOLARES Y DE COLECTORES SOLARES (SOLARDACH F). |
| ES2342688T T3 20100712 | DE200610024867 20060524 | F16H1/22; F16H35/10; F16H57/02; F24J2/54 | FLENDER TUEBINGEN GMBH [DE] | DISPOSICION DE ACCIONAMIENTO CON DOS EJES. |
| ES2342749 A1 20100713 | ES20070001939 20070710 | F25B27/00; F24D17/00; F24D17/02; F24J2/04 | CAPSOLAR CST S L [ES] | INSTALACION DE APROVECHAMIENTO DE ENERGIA SOLAR. |
| ES2342760 A1 20100713 | ES20090002351 20091217 | F24J2/46; G01F23/24; G01K7/16 | UNIV MADRID POLITECNICA [ES] | DISPOSITIVO DE INTERRUPCION TERMICA EN CONEXIONES A INTERCAMBIADORES DE CALOR |
| ES2342780T T3 20100714 | AT20040001456 20040831 | F24J2/10; F24J2/04; F24J2/05; H01L31/058 | HADLAUER MARTIN [AT] | MODULO COLECTOR PARA LA GENERACION DE ENERGIA ELECTRICA Y TERMICA. |
| ES2342867 A1 20100715 | ES20070003184 20071130 | F24J2/54 | CRUZ CASTRO RENOVABLES S L [ES] | SEGUIDOR SOLAR |
| ES2342924T T3 20100719 | DE20011028237 20010611 | H01L31/042; F24J2/52; H01L31/048 | SIKA TECHNOLOGY AG | MODULO DE MONTAJE DE CELULAS SOLARES. |
| ES2343290 A1 20100727 | ES20070002501 20070924 | F24J2/46; F24J2/20; F24J2/52 | PETRA INVENTUM [ES] | MEJORAS EN EL OBJETO DE LA PATENTE PRINCIPAL N. 200702501 POR "PANEL DE CERRAMIENTO ARQUITECTONICO COLECTOR DE ENERGIA SOLAR, Y CUBIERTA COLECTORA DE ENERGIA SOLAR TRANSITABLE" |
| ES2343395 A1 20100729 | ES20070002297 20070817 | F24J2/54 | IND MECANICAS DE TUDELA S A [ES] | SEGUIDOR SOLAR PARA EQUIPOS PRODUCTORES DE ENERGIA. |

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| ES2343766T T3 20100809 | DE200710012543 20070313 | F24J2/54 | REISDORF WOLFGANG | DISPOSITIVO Y PROCEDIMIENTO PARA EL SEGUIMIENTO DE POR LO MENOS UN MODULO EN UNA INSTALACION DE MODULOS SOLARES. |
| ES2343825 A1 20100810 | ES20080000002 20080102 | F24J2/54 | SENDEKIA ARQUITECTURA E INGENI [ES] | SEGUIDOR SOLAR A DOS EJES |
| ES2344311T T3 20100824 | WO2006IB50941 20060328 | F24J2/14; F24J2/18; F24J2/38; F24J2/54 | CAPAN RAHMI OGUZ | SISTEMAS DE COLECTOR SOLAR PARABOLICO CON MEDIOS DE SEGUIMIENTO GIRATORIO. |
| ES2344492 A1 20100827 | ES20060003326 20061229 | F24J2/54; F24J2/38 | HISPANOTRACKER S L [ES] | MEJORAS INTRODUCIDAS EN LA PATENTE DE INVENCION P.200603326/3 POR: SEGUIDOR SOLAR BIDIRECCIONAL |
| ES2345078 A1 20100914 | ES20080001211 20080417 | F24J2/54 | SUN NEST S L U [ES] | ESTRUCTURA PARA SEGUIDOR SOLAR Y PROCEDIMIENTO DE INSTALACION. |
| ES2345093 A1 20100914 | ES20100090039 20071204 | F24J2/24 | UNIV PONTIFICIA COMILLAS ICAI [ES] | COLECTOR SOLAR |
| ES2345379 A1 20100921 | ES20090000764 20090320 | F03G6/06; F24J2/07 | ABENGOA SOLAR NEW TECHNOLOGIES [ES] | PLANTA SOLAR COMBINADA DE TECNOLOGIA DE AIRE Y VAPOR |
| ES2345427 A1 20100922 | ES20100000644 20100519 | F24J2/52 | UNIV MADRID POLITECNICA [ES]; UNIV NAC DE EDUCACION A DISTAN | DISPOSITIVO DE CONCENTRACION DE LA RADIACION SOLAR, CON ESPEJOS Y RECEPTOR LONGITUDINALES |
| ES2345759 A1 20100930 | ES20100000717 20100601 | F24J2/10; F24J2/24; F24J2/54 | UNIV MADRID POLITECNICA [ES]; UNIV NAC DE EDUCACION A DISTAN | RECEPTOR PARA CENTRAL SOLAR CON ESPEJOS LONGITUDINALES |
| ES2346626 A1 20101018 | ES20090001077 20090417 | E04D13/18; E04B7/02; E04D3/00; F24J2/00; H01L31/042; H02N6/00 | HYSOGEO CLEAN EN SL [ES] | EDIFICACION OPTIMIZADA PARA LA GENERACION DE ENERGIA SOLAR FOTOVOLTAICA EN CUBIERTA |

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| ES2346629 A1 20101018 | ES20100000935 20100720 | F24J2/10; F24J2/54 | UNIV MADRID POLITECNICA [ES]; UNIV NAC DE EDUCACION A DISTAN | CONCENTRADOR DE LA RADIACION SOLAR, CON ESPEJOS PARABOLICOS MULTIPLES INDEPENDIENTES |
| FI8896U U1 20101022 | FI20100000089U 20100225 | F16M13/02; F24J2/52; H01L31/05 | SALAKARI ANTERO [FI] | Aurinkoenergian kerääjä |
| FR2940664 A1 20100702 | FR20080007523 20081231 | E04D13/18; F24J2/52; H01L31/042 | EN ECONOMIES SYSTEMES [FR] | Photovoltaic panels fixing profile for generating current, has maintenance units maintaining electrical connection device away from base of socle section and with rib placed on exterior face of flanks of fitting units of socle section |
| FR2941038 A1 20100716 | FR20090000163 20090115 | F24J2/10 | CABARBAYE ANDRE JEAN MARIE PHILIPPE [FR]; CABARBAYE AURELIEN JEAN BAPTISTE [FR] | CONCENTRATEUR SOLAIRE STATIQUE OPTIMAL FORME EN SPIRALE ET MUNI DE MIROIRS |
| FR2941251 A1 20100723 | FR20090000262 20090120 | E04D13/18; F24J2/52; H01L31/042 | BEAUD GERARD [FR] | Photovoltaic solar panel assembling device for e.g. roof of industrial building, has laying plates and interior and exterior pliers for positioning and maintaining panel, where edges of plates are oriented perpendicular to laying planes |
| FR2941478 A1 20100730 | FR20090000312 20090126 | E04D13/18; F24J2/52; H01L31/042; H01L31/05 | SYSTOVI [FR] | INSTALLATION DE PANNEAUX PHOTOVOLTAIQUES |
| FR2941521 A1 20100730 | FR20090000361 20090128 | F24F12/00; F24F7/06; F24J2/04 | ATLANTIC CLIMATISATION VENTILA [FR] | Combined ventilation and water-heater installation for room e.g. garage, of dwelling, has air extraction system for modifying flow of extraction air for heating water based on operating state of water-heater |

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| FR2941726 A1 20100806 | FR20090050567 20090130 | E04D13/18; E04D3/40; F24J2/46; H01L31/042 | RAVOYARD HOLDING [FR] | Photovoltaic solar roof element, has attachments bent on clips toward exterior or interior by forming external or internal space between clips and zone of ribs, based on whether cables are arranged at outer side or inner side of ribs |
| FR2942028 A1 20100813 | FR20090050884 20090212 | F24J2/05 | SOPHIA ANTIPOLIS EN DEV [FR]; COMMISSARIAT ENERGIE ATOMIQUE [FR] | CAPTEUR SOLAIRE, ET INSTALLATION DE GENERATION D'ENERGIE ELECTRIQUE COMPORTANT DE TELS CAPTEURS SOLAIRES |
| FR2942029 A1 20100813 | FR20090000627 20090212 | F24J2/24 | SOLARMUR [FR] | Thermal solar collector for use on facade of building, has vanes transmitting partially detected calorific energy to heat-transfer fluid circulating in heat-transfer fluid duct, and gas or air volume partitioned between walls |
| FR2942030 A1 20100813 | FR20090050885 20090212 | F24J2/32; F24J2/05 | SOPHIA ANTIPOLIS EN DEV [FR]; COMMISSARIAT ENERGIE ATOMIQUE [FR] | ENSEMBLE DE CALODUCS POUR CAPTEURS SOLAIRES |
| FR2942303 A1 20100820 | FR20090000731 20090218 | F24J2/00 | DEBLOIS LUDOVIC [FR] | Solar concentrator, has solar collectors covered with transparent glass plate, and solar sensors fixed on transparent plate, where solar collectors, glass plate and solar sensors are moved around vertical rotational axle |
| FR2942310 A1 20100820 | FR20090051041 20090218 | F28D20/02; F24H7/04; F24J2/30 | KAPLAN YANN [FR] | Thermal energy accumulator for e.g. solar-water heater, has material formed by mixture of waxes that are miscible, so that material has point whose temperature is comprised between temperature of other points |
| FR2942827 A1 20100910 | FR20090051311 20090303 | E04D3/38; E04D13/18; F24J2/52; H01L31/042 | YERMAKOFF MICHEL [FR] | STRUCTURE ETANCHE DE SURFACE COUVERTE DE PANNEAUX SOLAIRES, SANS CADRE. |

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| FR2942828 A1 20100910 | FR20090051312 20090303 | E04D13/18; E04D3/38; F24J2/52; H01L31/042 | YERMAKOFF MICHEL [FR] | STRUCTURE ETANCHE DE SURFACE COUVERTE DE PANNEAUX SOLAIRES, AVEC CADRE. |
| FR2942868 A1 20100910 | ES20090000585 20090303 | F24J2/38 | TAHULLAS Y NAVES S L [ES] | SUIVEUR SOLAIRE |
| FR2943122 A1 20100917 | FR20090001174 20090313 | F24J3/08; F24F5/00; F24F7/06; F24J2/00 | QUENTIN CHRISTOPHE FRANCIS PIERRE [FR] | Heating and air-conditioning device for e.g. building, has air intake device including protective grid and filter system assembly, valve and inclined roof whose face is provided with double glass surface having glass house effect |
| FR2943369 A1 20100924 | FR20090051750 20090319 | E04D13/18; E04D3/38; F24J2/34; F24J2/52; H01L31/042 | SAINT GOBAIN [FR] | Fixation section for solar roof used to generate e.g. electricity in dwelling, has lateral wings arranged on sides of support surfaces, where wall of each wing comprises return whose part is directed towards bearing surface of wing |
| FR2943767 A1 20101001 | FR20090001426 20090326 | F24J2/52; E04D13/18 | KERAVIC [BE] | Articulation device for tilting fixation of solar sensor and photovoltaic panel on e.g. reception surface, has pin permitting pivoting of sliding element with respect to installation element |
| FR2944037 A1 20101008 | FR20090052205 20090403 | E04D13/18; E04D13/16; F24J2/52; H01L31/042 | BARSOLIS [FR] | SUPPORT POUR EQUIPEMENT PHOTOVOLTAIQUE, ET DISPOSITIF D'INTEGRATION POUR EQUIPEMENT PHOTOVOLTAIQUE COMPRENANT UN TEL SUPPORT. |
| FR2944038 A1 20101008 | FR20090052253 20090407 | E04D3/36; E04D13/18; F24J2/52 | DOFAM ENERGY [FR] | KIT DE FIXATION POUR PANNEAU SOLAIRE SUR UNE CHARPENTE. |
| FR2944042 A1 20101008 | FR20090052247 20090407 | E04H1/12; E04D13/18; E04H6/02; F24J2/00; H01L31/042; H02J7/35 | SC OMBRISOL [FR] | Covering installation for protecting parking area of electric motor vehicle, has pedestals placed on ground for assuring self-stability of structural module, where module straddles parking spaces without intermediate supports |

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| FR2944097 A1 20101008 | FR20090052117 20090402 | B60P3/20; F24J2/00; F25D16/00; F28D20/02 | PHOTOWATT INTERNAT [FR] | PANNEAU VENTILE ET VEHICULE EPQUIPE D'UN TEL PANNEAU |
| FR2944304 A1 20101015 | FR20090052396 20090410 | E04D3/36; E04D13/18; F24J2/52; H01L31/042 | SAINT GOBAIN [FR] | Solar modules i.e. glass substrates, fixation unit for solar roof of building, has support surfaces comprising seal packings and arranged at level of side ends of each of cores to form U-shaped sections for receiving respective substrates |
| FR2944817 A1 20101029 | FR20090001964 20090423 | E04D3/36; E04D13/18; F24J2/52; H01L31/042 | SURZUR ALAIN ROGER [FR] | Device for fixing sectional rail receiving solar or photovoltaic panels on inclined structure or roof, has sectional flange comprising two lower ribs, self-chock template, and trapezoidal sectioned disks positioned on tubular support |
| FR2944818 A1 20101029 | FR20090001937 20090422 | E04D13/18; F24J2/46; H01L31/042 | SYSTOVI [FR] | Installation for installing photovoltaic panels on slope of roof, has connection nose comprising passage for establishing air circulation between air space and outside area, where connection nose is provided in upper edge of installation |
| FR2944819 A1 20101029 | FR20090002053 20090428 | E04D13/18; F24J2/52; H01L31/042 | NIOBEY PATRICK [FR] | Device for integratedly positioning photovoltaic solar panels on building, has shoulders arranged at ends of connection beam to receive photovoltaic solar panels and to channel water, where connection beam is formed in reversed U shape |
| FR2944862 A1 20101029 | FR20090001929 20090422 | F24J2/10; F24J2/12 | IDCOOK [FR] | Reflecting strip for use in fan shaped parabolic reflector of solar furnace to reflect sunlight, has assembling unit comprising passage hole that is formed between edges for allowing passage of pot-holding rod of solar furnace |
| FR2945109 A1 20101105 | FR20090002127 20090504 | F24J2/46; G02B17/08; G02B27/10 | HERZOG JEAN XAVIER MARIE [FR] | SYSTEME A CAPTEUR SOLAIRE OPTIQUE HORIZONTAL ELECTRO-THERMO GENERATEUR |

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| FR2945304 A1 20101112 | FR20090053068 20090507 | E04D13/18; F24J2/04; H01L31/042 | ENTPR MCB [FR] | Corrugated roof for e.g. building, has recovery device arranged partly in longitudinal channels for recovering photovoltaic and thermal solar energy, where recovery device includes strips connected relative to each other to form circuit |
| FR2945376 A1 20101112 | FR20090053028 20090506 | H01L31/058; F24J2/05; F28D1/04; H01L31/052 | COMMISSARIAT ENERGIE ATOMIQUE [FR] | RECEPTEUR SOLAIRE HYBRIDE POUR LA PRODUCTION D'ELECTRICITE ET DE CHALEUR ET SYSTEME SOLAIRE A CONCENTRATION COMPORTANT UN TEL RECEPTEUR |
| FR2945561 A1 20101119 | FR20090002277 20090512 | E04D13/18; E04H5/02; E04H5/08; F24J2/52; H01L31/042 | DENIS BRAUD [FR] | Photovoltaic module fixing system for e.g. roof of building, has fixation unit connected to photovoltaic module and fixed on counter-plate for maintaining photovoltaic module on covering surface by clamping |
| FR2945857 A1 20101126 | FR20090002445 20090520 | F24J2/14; F24J2/05; F24J2/18; F24J2/34 | CONVERT PIERRE [FR] | Device for transmitting heat energy to gaseous or liquid fluid in e.g. solar thermal station, has frame supporting mobile structure for aligning structure so as to maintain solar light in common optical plane of mirrors |
| FR2946130 A1 20101203 | FR20090002626 20090602 | F24J2/46; B65D17/00; F24J2/26 | OURAD MOKRANE JUBA [FR] | Air and water heating system i.e. solar heater, has inlet and outlet allowing air to circulate in cans, to return and leave cans during exposure to sun and to heat air and liquid, where cans are equipped with elongated spiral shaped plates |
| FR2946677 A1 20101217 | FR20090002799 20090610 | E04D13/18; F24J2/52; H01L31/042 | MEDIAT S [FR] | DISPOSITIF D'ASSEMBLAGE ENTRE UN PANNEAU PHOTOVOLTAIQUE ET UN CORPS DE TUILE QUE COMPREND UN ELEMENT DE COUVERTURE D'UN BATIMENT |
| FR2946732 A1 20101217 | FR20090002901 20090615 | F24J2/24 | DABRIGEON MARC [FR] | Thermal solar panel i.e. thermal Helios panel, for hot water installation e.g. solar boiler, has secondary coil arranged in rear of primary coil for collecting rear thermal loss, and secondary coil integrated to galvanized sheet absorber |

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| FR2947280 A1 20101231 | FR20090054464 20090630 | C09K5/00; F24J2/48 | OMYA DEVELOPMENT AG [CH]; LONGUEMARD JEAN-PAUL [FR] | FLUIDE CALOPORTEUR |
| GB2467132 A 20100728 | GB20090001031 20090122 | F24J2/00; F24F5/00 | BUILDING RES ESTABLISHMENT LTD [GB] | A heating module for a building |
| GB2467197 A 20100728 | US20080258253 20081024; US20090468747 20090519; US20090498135 20090706 | G05D3/00; F24J2/38; G01S3/786 | EMCORE SOLAR POWER INC [US] | Solar Tracking and Positioning of Terrestrial Solar Arrays |
| GB2467800 A 20100818 | GB20090002670 20090217 | F24D19/10; F24D17/00; F24J2/12 | HILL ANDREW [GB] | System in which the temperature of a heat supplier and a heat consumer are compared |
| GB2468207 A 20100901 | GB20090003385 20090227 | F24J2/36; F24J2/24 | SUNDWEL SOLAR LTD [GB] | Solar thermal collector |
| GB2469300 A 20101013 | GB20090006070 20090408 | F24J2/04; E04B7/18 | CREASE DAVID PLAISTOW [GB] | Solar collector and rooflight |
| GB2469321 A 20101013 | GB20090006169 20090408 | C02F1/02; C02F1/14; F24J2/12; F24J2/24; F24J2/42 | DEMPSON PACKAGING LTD [GB] | System for heating and pasteurising water |
| GB2469344 A 20101013 | GB20090012853 20090723 | F24J2/54; G02B7/00 | CHAPMAN IAIN [GB] | Movable mount for supporting a solar radiation collector |
| GB2469494 A 20101020 | GB20090006511 20090416 | C02F1/02; F24J2/00 | CELSIUS SOLAR LTD [GB] | Solar panel for water heating and purification |
| GB2469897 A 20101103 | TW20090207042U 20090427 | F24J2/16 | HIGHER WAY ELECTRONIC CO LTD [TW] | A hybrid photovoltaic and solar heating apparatus |
| GB2469916 A 20101103 | IE20090000334 20090427 | F24J2/46 | KINGSPAN HOLDINGS [IE] | Solar collector retaining clip |

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|-----------------------------|--|---|------------------------------------|---|
| GB2469917 A 20101103 | IE20090000335 20090427 | F24J2/46; F16L7/00; F24J2/05; F24J2/26 | KINGSPAN HOLDINGS [IE] | Solar collector wire retaining clip |
| GB2469963 A 20101103 | WO2009AU00541 20090430; AU20080902129 20080430 | H01L31/042; F24J2/38; G01S3/78; G01S3/786; H02J7/35 | KENT HOLDINGS INTERNAT LTD [CN] | Solar tracking apparatus and method |
| GR20090100177 A 20101021 | GR20090100177 20090327 | F24J2/10; F22B1/06; F24J2/07; F24J2/24; F24J2/46; F24J2/48 | PAPADOPOULOS ALEXANDROS [GR] | HIGH-PERFORMANCE FRESNEL-TYPE POWER- GENERATING PLANT CHARACTERISED BY ENERGY STORAGE |
| GR20090100234 A 20101118 | GR20090100234 20090422 | F24J2/26; F24J2/46 | KOGCHYLAKIS EMMANOUIL [GR] | HEAT-COLLECTING SURFACE FOR SOLAR HEAT COLLECTORS |
| HK1089503 A1 20100924 | WO2004EP00034 20040107; DE20031004536 20030204 | E04C2/54; E04D3/28; E04D3/362; F24J2/04; F24J2/20; F24J2/46; F24J2/48 | BAYER MATERIALSCIENCE AG [DE] | HOLLOW-CHAMBER PROFILE FOR UTILIZING SOLAR ENERGY |
| IL171542 A 20101130 | US20030464429P 20030422; WO2004US12323 20040422 | F24J2/05; F24J2/10; F24J2/32 | SOLARGENIX ENERGY LLC [US] | SOLAR COLLECTORS WITH EVACUATED RECEIVER AND NONIMAGING EXTERNAL REFLECTORS |

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|----------------------------|---|--|----------------------|--|
| IL172215 A 20101130 | AU20030902656 20030529; WO2004AU00699 20040527 | F24J2/08; F24J2/12; F24J2/14; F24J2/18; F24J2/38; F24J2/52; H01L31/052 | SUNENGY PTY LTD [AU] | COLLECTOR FOR SOLAR RADIATION |
| JP2010144725 A 20100701 | US20080341345 20081222 | F02C7/224; F01K23/10; F03G6/00 | GEN ELECTRIC | SYSTEM AND METHOD FOR HEATING FUEL USING SOLAR HEATING SYSTEM |
| JP2010144956 A 20100701 | JP20080320244 20081216 | F24J2/02; F27B17/00 | IHI CORP | SOLAR FURNACE DEVICE |
| JP2010144957 A 20100701 | JP20080320245 20081216 | F24J2/34; F24J2/08; F24J2/12; F24J2/24 | IHI CORP | SOLAR HEAT COLLECTION METHOD AND DEVICE |
| JP2010145034 A 20100701 | JP20080323817 20081219 | F24J2/42 | DAIKIN IND LTD | HEAT TRANSFER SYSTEM |
| JP2010147129 A 20100701 | JP20080320635 20081217 | H01L31/042; F24J2/00; F24J2/24 | GF GIKEN KK | PHOTOVOLTAIC COGENERATION MODULE |
| JP2010151331 A 20100708 | JP20080327101 20081224 | F24J2/04; F24J2/10 | YAZAKI CORP | SOLAR HEAT COLLECTOR |
| JP2010151346 A 20100708 | JP20080328309 20081224 | F24J2/18; G02B7/198; G02B19/00 | MITAKA KOKI KK [JP] | SUNLIGHT COLLECTING SYSTEM |
| JP2010151934 A 20100708 | JP20080327644 20081224 | G02B7/182; F24J2/10; F24J2/18; F24J2/38; G02B5/10 | MITAKA KOKI KK [JP] | OPTICAL POSITIONING METHOD AND STRUCTURE OF SUNLIGHT COLLECTION SYSTEM |
| JP2010151980 A 20100708 | JP20080328315 20081224 | G02B7/182; F24J2/18 | MITAKA KOKI KK [JP] | SUNLIGHT COLLECTION SYSTEM |

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|----------------------------|---------------------------|--|-------------------------------------|---|
| JP2010151982 A 20100708 | JP20080328322 20081224 | G02B7/182; F24J2/10; F24J2/18; F24J2/38; G02B5/10 | MITAKA KOKI KK [JP] | SUNLIGHT COLLECTION SYSTEM |
| JP2010156181 A 20100715 | JP20090000144 20090105 | E04B1/74; E04B1/70; F24F7/10; F24J2/04 | MISAWA HOMES CO | BUILDING |
| JP2010156517 A 20100715 | JP20080336282 20081230 | F24J2/16; G02B3/06 | MASUBUCHI HIDEO | SUNLIGHT UTILIZING DEVICE |
| JP2010159889 A 20100722 | JP20090000605 20090106 | F28D20/00; F24F5/00; F24J2/42 | CHOSHON YASUHISA | MULTIPURPOSE HEAT STORAGE DEVICE COMBINING HIGH-TEMPERATURE SOLAR HEAT COLLECTOR WITH ELECTRIC HEATER |
| JP2010159937 A 20100722 | JP20090003413 20090109 | F24J2/04; E04B1/74; F24F5/00; F24J2/52 | MISAWA HOMES CO | MOUNTING STRUCTURE OF HEAT COLLECTING DEVICE |
| JP2010159947 A 20100722 | JP20090023082 20090107 | F24F7/00; E04B1/70; F24J2/42 | SASAKI NORIMASA | UNDERFLOOR VENTILATION STRUCTURE USING SOLAR HEAT |
| JP2010159962 A 20100722 | JP20100003801 20100112 | F24J2/46; F24J2/51 | mitsui shipbuilding eng; axis kk | METHOD OF READJUSTING SUNLIGHT TRACKING SENSOR |
| JP2010163862 A 20100729 | US19960629052 19960408 | F24J2/14; F24J2/18; F24J2/54 | SUNPOWER CORP SYSTEMS [US] | LIGHTWEIGHT SELF-BALLAST PHOTOVOLTAIC ROOFING ASSEMBLY |
| JP2010169336 A 20100805 | JP20090013085 20090123 | F23B90/00; F03G6/00; F22B15/00; F24J2/08; F24J2/38 | MORIMOTO KEIICHI | BOILER AND ELECTRIC POWER GENERATING DEVICE USING THE BOILER |
| JP2010175169 A 20100812 | JP20090019389 20090130 | F22B1/16; F24J2/10 | MITAKA KOKI KK [JP] | STEAM GENERATOR |

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|----------------------------|---|---|-----------------------------------|--|
| JP2010175170 A 20100812 | JP20090019405 20090130 | F22B1/06; F24J2/10 | MITAKA KOKI KK [JP] | STEAM GENERATOR |
| JP2010181045 A 20100819 | JP20090022430 20090203 | F24J2/48; F24J2/24 | MITAKA KOKI KK [JP] | LIGHT RECEIVING PIPE FOR SOLAR LIGHT COLLECTING DEVICE |
| JP2010181079 A 20100819 | JP20090024612 20090205 | F24H1/00; F24H1/18; F24J2/42 | CORONA CORP | STORAGE TYPE HOT WATER SUPPLY DEVICE |
| JP2010190460 A 20100902 | JP20090033579 20090217 | F25B27/00; F01K25/10; F01K27/02; F03G6/00; F24F11/02; F24J2/42; F25B1/053 | HITACHI PLANT TECHNOLOGIES LTD | AIR CONDITIONING SYSTEM |
| JP2010190498 A 20100902 | JP20090035884 20090218 | F24J2/36; F24J2/20 | SORAL KK | PLASTIC FILM SHEET-SHAPED SOLAR HEAT COLLECTING SYSTEM |
| JP2010197030 A 20100909 | JP20080315580 20081211; JP20090016555 20090128; JP20090103841 20090422 | F24H1/00; F24J2/42 | TAKASAGO THERMAL ENGINEERING | HEAT PUMP HOT WATER SUPPLY SYSTEM UTILIZING SOLAR HEAT |
| JP2010203624 A 20100916 | JP20090046358 20090227 | F24J2/24; F24J2/12 | MITAKA KOKI KK [JP] | TROUGH TYPE LIGHT COLLECTING UNIT |
| JP2010203657 A 20100916 | JP20090048676 20090303 | F24F7/08; F24F7/10; F24J2/42; F24J3/08 | KANAZAWA INST OF TECHNOLOGY | HOUSE VENTILATION SYSTEM |
| JP2010216758 A 20100930 | JP20090065935 20090318 | F26B23/00; D06F58/10; F24J2/00; F24J2/04; F24J2/42 | RYOJU ESTATE CO LTD | HOUSEHOLD DRYING SYSTEM UTILIZING SOLAR HEAT |

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|----------------------------|---------------------------|---|-------------------------------------|--|
| JP2010223462 A 20101007 | JP20090069260 20090323 | F24J2/38 | NAT INST OF ADVANCED IND SCIEN | ROTATING DRIVE DEVICE FOR SOLAR ENERGY USING SYSTEM |
| JP2010223489 A 20101007 | JP20090070728 20090323 | F24H1/00; F24J2/42 | OSAKA GAS CO LTD | SOLAR SYSTEM |
| JP2010223567 A 20101007 | JP20090096462 20090319 | F24J2/06; F21S11/00; F24J2/02 | NAKAGAWA KENICHI | LIGHT CONDENSING PLATE |
| JP2010230302 A 20101014 | JP20090102413 20090326 | F28D20/00; F24J2/34; F24J2/38 | HIRO KK | HEAT STORAGE DEVICE |
| JP2010237415 A 20101021 | JP20090084789 20090331 | G02B5/08; F24J2/10; H01L31/052 | KONICA MINOLTA OPTO INC [JP] | FILM MIRROR HAVING ULTRAVIOLET RAY REFLECTION FILM |
| JP2010249345 A 20101104 | JP20090096788 20090413 | F24J2/04; C22B26/00; C25C7/00; F27B14/14; F27B17/00 | ICHIKAWA MASAHIRO; KAMATA SABURO | DEVICE FOR ACQUIRING ALKALI METAL OR ALKALINE EARTH METAL FROM ALKALI METAL CHLORIDE OR ALKALINE EARTH METAL CHLORIDE |
| JP2010249375 A 20101104 | JP20090097995 20090414 | F24H1/00; F24H7/02; F24J2/42 | NAKAJIMA TOYOSHI | HOT WATER SUPPLY DEVICE |
| JP2010249437 A 20101104 | JP20090100420 20090417 | F24J2/24 | IEJIMA TERUO | SOLAR WATER HEATER |
| JP2010249489 A 20101104 | JP20090119245 20090420 | F24J2/42; E02D29/00 | MASUBUCHI HIDEO | SOLAR ENERGY STORAGE HEAT DAM |
| JP2010255881 A 20101111 | JP20090103804 20090422 | F24H1/00; F24H1/10; F24J2/42 | YAZAKI CORP | SOLAR HOT WATER SUPPLY SYSTEM AND METHOD OF CALCULATING CUTOFF GAS USAGE VOLUME |
| JP2010255963 A 20101111 | JP20090108435 20090406 | F24J2/42; F24J3/08 | NIPPON SHIZEN ENERGY KAIHATSU KK | SYSTEM USING NATURAL ENERGY |

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|----------------------------|---|--|---|--|
| JP2010255982 A 20101111 | JP20090109358 20090428 | F24H1/18; F24D3/00; F24H1/00; F24J2/42; F24J3/08 | ATOM KANKYO KOGAKU KK | HEAT UTILIZATION SYSTEM AND HEAT UTILIZING METHOD |
| JP2010256008 A 20101111 | JP20100177184 20100806 | F24J2/12; G02B7/182 | MITSUI SHIPBUILDING ENG; DPS BRIDGE WORKS CO LTD | BEAM-DOWN TYPE SOLAR RAY LIGHTING DEVICE |
| JP2010261416 A 20101118 | JP20090114332 20090511 | F03G7/00; B01J19/00; F03G6/00; F17C11/00; F24J2/42 | TOKYO GAS CO LTD | ENERGY STORAGE DEVICE AND DIFFERENTIAL PRESSURE POWER GENERATION SYSTEM USING THE SAME |
| JP2010264943 A 20101125 | JP20090119691 20090518 | B60H1/20; B60H1/22; B60H1/24; F24J2/00; F24J2/42 | SEKISUI CHEMICAL CO LTD | AUTOMOBILE |
| JP2010266138 A 20101125 | JP20090118383 20090515 | F24J2/02 | TERUI KOJI | SOLAR HEAT COOKER-CUM-SOLAR WATER HEATER |
| JP2010266147 A 20101125 | JP20090118664 20090515 | F24J3/08; F24J2/42; F28D20/00 | ASAHI KASEI HOMES CO | HEAT STORAGE STRUCTURE |
| JP2010266182 A 20101125 | JP20090098832 20090415; JP20090254170 20091105 | F24J2/50 | KOKUSAI GIJUTSU KAIHATSU KK | SOLAR HEAT COLLECTOR |
| JP2010266629 A 20101125 | JP20090117262 20090514 | G02B3/08; F24J2/08 | NIPPON TOKUSHU KOGAKU JUSHI KK | FRESNEL LENS FOR SOLAR SYSTEM AND THE SOLAR SYSTEM |
| JP2010270943 A 20101202 | JP20090121662 20090520 | F24J2/42; F24H1/00; F24J2/00; F24J2/04 | PANASONIC CORP [JP] | SOLAR ENERGY UTILIZATION SYSTEM |

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| JP2010271734 A 20101202 | FR20010015352 20011128 | G02B5/02; F24J2/06; G02B5/04; G02F1/1335; G02F1/13357; H01L31/042; H01L31/052 | SAINT GOBAIN [FR] | TEXTURED TRANSPARENT PANEL HAVING HIGH LIGHT TRANSMISSION |
| JP2010276279 A 20101209 | JP20090129472 20090528 | F24H1/00; F24H9/00; F24J2/42; F24J2/46 | NORITZ CORP | HOT WATER UNIT FOR SOLAR SYSTEM |
| JP2010279893 A 20101216 | JP20090134782 20090604 | C02F1/04; B01D1/04; B01D5/00; C02F1/16; F03G6/00; F24J2/04 | MITAKA KOKI KK [JP] | SEAWATER DESALTING APPARATUS WITH POWER GENERATION FUNCTION |
| JP2010281251 A 20101216 | JP20090134779 20090604 | F03G6/00; F01K27/02; F22B1/00; F24J2/10; F24J2/42 | MITAKA KOKI KK [JP] | SOLAR LIGHT CONCENTRATING STEAM POWER GENERATOR |
| JP2010281470 A 20101216 | JP20090132908 20090602 | F24H1/00; F24H9/02; F24J2/42 | YAZAKI CORP | WATER HEATER AND SOLAR HEAT HOT WATER SUPPLY SYSTEM |
| JP2010286199 A 20101224 | JP20090141565 20090612 | F24J2/24; F02C1/05; F03G6/00; F03G7/06; F24J2/26; F24J2/48 | MITSUBISHI HEAVY IND LTD [JP] | SOLAR HEAT RECEIVER |

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| JP2010286200 A 20101224 | JP20090141566 20090612 | F24J2/38; F02C1/05; F03G6/00; F24J2/10 | MITSUBISHI HEAVY IND LTD [JP] | SOLAR HEAT COLLECTOR |
| JP2010286231 A 20101224 | JP20090116882 20090513; JP20100109514 20100511 | F24D17/00; F24J2/42 | CHOFU SEISAKUSHO CO LTD | HOT WATER SUPPLY SYSTEM |
| KR100967309B B1 20100701 | KR20100014568 20100218 | A24B3/10; F24J2/04 | HONG CHEOL GYU [KR]; HWANG HONG YUN [KR]; KIM TAE HWAN [KR] | SOLAR ENERGY POWER GENERATION SYSTEM |
| KR100967811B B1 20100705 | KR20090091197 20090925 | F24J2/46 | HILEBEN CO LTD [KR] | EFFICIENCY ENHANCEMENT APPARATUS FOR SOLAR PHOTOVOLTAIC POWER FACILITIES |
| KR100968402B B1 20100707 | KR20090049254 20090603 | F24J2/52; F24J2/38; H01L31/042 | PARK YOUNG HWAN [KR]; GREEN PLUS CO LTD [KR] | APPARATUS FOR TRACKING CONDENSING SUNLIGHT OF SLIDING TYPE |
| KR100968751B B1 20100709 | KR20090050225 20090608 | F24J2/10; F24J2/04; F24J2/46; H01L31/058 | CANAANENC [KR]; DK CORP [KR] | SOLAR POWER GENERATION SYSTEM AND AIR-CONDITIONING SYSTEM USING IT |
| KR100970083B B1 20100716 | KR20100013296 20100212 | F24J2/38; H01L31/042 | KIM JAE WOO [KR] | APPARATUS FOR CONCENTRATING SOLAR LIGHT |
| KR100970280B B1 20100716 | KR20090022617 20090317 | F24J2/38; H01L21/00; H01L31/042 | GARAMENC CO LTD [KR] | MONITORING SYSTEM OF SOLAR PHOTOVOLTATIC POWER GENERATION |
| KR100970344B B1 20100715 | KR20100007988 20100128 | E04H6/02; E04B7/02; E04B7/20; F24J2/04 | IND ACADEMIC COOP [KR] | SOLAR ENERGY SYSTEM AND CONTROL METHOD THEREOF |
| KR100970861B B1 20100716 | KR20090100257 20091021 | F24J2/30; F24J2/24; F24J2/46 | GEOSUN INC [KR] | FLAT TYPE SOLAR HEAT COLLECTOR HAVING DOUBLE VACUUM TUBE |

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| KR100970952B B1 20100720 | KR20090065193 20090717 | F24J2/38; F24J2/40; H01L31/042 | LEE GYE SUK [KR] | APPARATUS FOR TRACKING SUN'S LAY AND METHOD THEREOF |
| KR100970961B B1 20100721 | KR20100005937 20100122 | G01J1/28; F24J2/38; F24J2/40 | HANKUK RELAY CO LTD [KR]; LEE YONG HEUN [KR]; LEE KWAN JAE [KR] | SUN TRACKING AND DRIVING SENSOR |
| KR100972138B B1 20100728 | KR20090125200 20091216 | F24J2/02; F24D5/02 | JANG YONG SU [KR] | NATURALLY CIRCULATING HEATING SYSTEM BY USING SOLAR ENERGY |
| KR100972459B B1 20100726 | KR20090129009 20091222 | F24J2/46; F24J2/05; F24J2/24 | CS NET CO LTD [KR] | SOLAR COLLECTOR |
| KR100972746B B1 20100728 | KR20090120616 20091207 | F24J2/38; H01L31/042 | EVERTECHNO CO LTD [KR] | TRACKER FOR CONCENTRATED PHOTOVOLTAIC |
| KR100975050B B1 20100811 | KR20090123115 20091211 | F24J2/38 | INOFF CO LTD [KR]; CHUNG SIN TEC CO LTD [KR] | SUN TRACKING APPARATUS |
| KR100976832B B1 20100820 | KR20100010740 20100205 | F24J2/52 | COSMO CENTURY CORP [KR] | THERMOELECTRIC ELEMENT POWER GENERATING APPARATUS USING SUNLIGHT |
| KR100978628B B1 20100827 | KR20100028441 20100330 | F24J2/10; F24J2/34; F24J2/51 | HONG SEOK TAE [KR] | SOLAR CELL STRUCTURE USING VACUUM REFLECTOR MIRROR |
| KR100980688B B1 20100907 | KR20100057705 20100617 | F24J2/38; E06B9/24; F24J2/54; H01L31/042 | HANSHIN INDUSTRY CO LTD [KR] | SUNSHADE WITH GENERATION AND PHOTOVOLTAIC POWER GENERATION DEVICE WITH BUILDING AS ONE BODY |
| KR100983887B B1 20100927 | KR20090128357 20091221 | F24J2/30; F24D17/00; F24D19/10; F24J2/34; F24J2/40 | GEOSUN INC [KR] | A WATER HEATING APPARATUS UNIFIED WITH SOLAR HEAT COLLECTOR USING VACCUM PIPE |

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| KR100986295B B1 20101007 | KR20100054072 20100608 | F24J2/46; F24J2/30 | YE HAN CO LTD [KR]; LEE HAN CHUL [KR]; JUNGHAN CO LTD [KR]; SEONG HAN CO LTD [KR] | SOLAR HEAT COLLECTOR |
| KR100986706B B1 20101008 | KR20100023151 20100316 | E04D13/00; E04D13/18; F24J2/52; H01L31/042; H01L31/048 | HILEBEN CO LTD [KR] | EFFICIENCY ENHANCEMENT EQUIPMENT FOR SOLAR PHOTOVOLTAIC POWER FACILITIES |
| KR100988264B B1 20101018 | KR20100016382 20100223 | F24J2/08; F24J2/24; F24J2/46; F25B27/00 | ODTECH CO LTD [KR] | SOLAR TRACKING SENSER FOR SOLAR POWER GENERATING SYSTEM |
| KR100989644B B1 20101026 | KR20100005936 20100122 | C03C23/00; C03B11/08; C03B13/08; F24J2/50; H01L31/042 | HANKUK RELAY CO LTD [KR]; LEE KWAN JAE [KR]; LEE YONG HEUN [KR] | SENSOR UNIT FOR SUN TRACKING |
| KR100989994B B1 20101026 | KR20100039526 20100428 | B21D11/07; F24J2/24 | PARK JONG IL [KR] | DRAIN DOWN-TYPE CLOSED LOOP SOLAR ENERGY SYSTEM AND CONTROLLING METHOD THEREOF |
| KR100990034B B1 20101026 | KR20100039528 20100428 | F24J2/04; F24J2/24; F24J2/30 | PARK JONG IL [KR] | METHOD FOR CONTROLLING OF DRAIN DOWN-TYPE CLOSED LOOP SOLAR ENERGY SYSTEM HAVING WAITING CONDITION |
| KR100991600B B1 20101104 | KR20100023244 20100316 | F24J2/46; H01L31/042 | LEE SANG CHUN [KR] | LIGHTING APPARATUS OF SOLAR-LIGHT AND STEAM GENERATING APPARATUS OF USING THE SAME |
| KR100992011B B1 20101104 | KR20100034771 20100415 | F24J2/38; F24J2/52; H01L31/042 | E & H CO LTD [KR] | HYBRID MODULE FOR SOLAR ENERGY |
| KR100993809B B1 20101112 | KR20090045335 20090525 | F24J2/46; F24J2/04 | APACK INC [KR] | SOLAR COLLECTOR MODULE AND SYSTEM |

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| KR100994565B B1 20101115 | KR20100065064 20100706 | F24J2/04; F24J2/30; F24J2/34 | G & C TECHNOLOGY CO LTD [KR]; KOREA LAND & HOUSING CORP [KR] | APPARATUS FOR HEATING WATER WITH SOLAR HEAT POWER AND SUPPLYING HOT WATER |
| KR100995889B B1 20101122 | KR20090059935 20090701 | F24J2/10; F24J2/24 | LEE HAN KOOK [KR]; CHOI GEUNG SOO [KR]; LEE BYUNG SEONG [KR] | WATER HEATING DEVICE BY USING SOLAR ENERGE |
| KR100996231B B1 20101123 | KR20100037454 20100422 | F24J2/54 | JUN TAE KYOO [KR] | VACUUM TUBE TYPE SOLAR COLLECTOR HAVING SIMPLE ASSEMBLING STRUCTURE AND MINIMIZED STEPS OF COLLECTING SOLAR HEAT |
| KR100996232B B1 20101123 | KR20100037456 20100422 | F24J2/46; F24J2/30 | JUN TAE KYOO [KR] | VACUUM TUBE TYPE SOLAR COLLECTOR HAVING LEAKAGE PREVENTION AND MINIMIZED STEPS OF COLLECTING SOLAR HEAT |
| KR100996634B B1 20101125 | KR20100011567 20100208 | F24J2/38; F24J2/06; F24J2/08; F24J2/52 | GUNGI CO LTD [KR]; HAN KOOK A B M CONSTRUCTION CO LTD [KR] | DAY-LIGHT DEVICE TRACKING OF SOLAR POSITION WHICH HAVING STRUCTURE FOR COMPLEX-JOINT LINK ALTAZIMUTH MOUNT |
| KR100996688B B1 20101125 | KR20100041950 20100504 | F24J2/52 | JAYON ENERGY INC [KR] | A SUN SOLAR RECEIING UNIT AND SOLAR PHOTOVOLTAIC USING THE SAME |
| KR100997883B B1 20101202 | KR20100035686 20100419 | F24J2/40; F24J2/46 | YOUIL ENSYS CO LTD [KR] | THE HOLDER OF TORQUE TUBE AND THE SOLAR TRACKER USING THE HOLDER |
| KR100998351B B1 20101203 | KR20100032947 20100409 | F16B1/02; E04D13/18; F16B2/02; F16B7/04; F24J2/52; H01L31/05 | JINJU NAT UNIVERSITY INDUSTRY ACADEMIA COOPERATION FOUNDATION [KR]; MBM CO LTD [KR]; KIM CHI GON [KR] | PHOTOVOLTAIC SYSTEM AND STREETLAMP HAVING THE SAME |
| KR100999513B B1 20101209 | KR20100048719 20100525 | F03G6/06; F01K3/00; F24J2/04 | KOREA MACH & MATERIALS INST [KR] | HYBRID GENERATOR USING SOLAR RAY AND HEAT |

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| KR100999832B B1 20101210 | KR20100086992 20100906 | F24J2/24; F24J2/46 | SEHAN SOLAR ENERGY CO LTD [KR] | TEMPERATURE EXCESSIVE CLIMBING PREVENTION STRUCTURE OF SOLAR COLLECTOR |
| KR101001789B B1 20101215 | KR20090080803 20090828 | F24J2/38; H01L31/042 | GREEN PLUS CO LTD [KR]; BAK YEONG HWAN [KR] | APPARATUS FOR CONDENSING SUNLIGHT OF TRACING FOR WALL |
| KR101002413B B1 20101217 | KR20100070434 20100721 | F24J2/04; F24J2/24; F24J2/30 | SAHM SHIN ENGINEERS INC [KR]; KOPAC ETS [KR] | SOLAR COLLECTOR SYSTEM USING A TRANSFER TECHNIQUE OF WATER AND SOLAR HEAT ENERGY |
| KR101002438B B1 20101221 | KR20100086478 20100903 | F24J2/54; H01L31/042 | KPV CO LTD [KR] | INCLINE ADJUSTABLE ROTATION CONTROL APPARATUS FOR SOLAR COLLECTOR ACCORDING TO HEIGHT OF THE SUN |
| KR101004108B B1 20101227 | KR20100014705 20100218 | H01L31/04; F24J2/08 | KANG NA RI [KR] | EQUIPMENT FOR FIXING SOLAR PANEL USING STEEL WIRE |
| KR101004344B B1 20101227 | KR20100084252 20100830 | F24J2/54; H01L31/042 | PARU CO LTD [KR] | APPARATUS FOR SEMIAUTOMATIC TYPE ADJUSTING THE ANGLE OF SOLAR ENERGY COLLECTION PLATE |
| KR101005092B B1 20101231 | KR20100036720 20100421 | F24F5/00; E04B1/74; F24F7/10; F24J2/28 | SUNEYE CPV [KR] | MANUFACTURING SYSTEM AND METHOD OF CONCENTRATION PHOTOVOLTAIC LENS |
| KR20100072957 A 20100701 | KR20080131524 20081222 | H01L31/042; F24J2/38 | LG INNOTEK CO LTD [KR] | SOLAR ELECTRIC GENERATOR AND BLIND APPARATUS |
| KR20100073084 A 20100701 | KR20080131670 20081222 | F24J2/52; F24J2/46; H01L31/042 | SAMSUNG ELECTRONICS CO LTD [KR] | PHOTOVOLTAIC-THERMAL HYBRID APPARATUS AND ASSEMBLY METHOD THEREOF |
| KR20100075845 A 20100705 | DE200710039164 20070820 | C09D183/02; C03C17/25; C09D5/00; F24J2/05 | FRAUNHOFER GES FORSCHUNG [DE] | SUBSTRATES SUPPLIED WITH A DUST AND AEROSOL-REPELLENT COATING, METHOD FOR THE PRODUCTION THEREOF AND MATERIALS FOR THIS PURPOSE |
| KR20100076420 A 20100706 | KR20080134447 20081226 | F24J2/12; F24J2/04; F24J2/06 | INHA IND PARTNERSHIP INST [KR] | DISH SOLAR CONCENTRATOR |

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|-----------------------------|----------------------------|---|---|---|
| KR20100078011 A 20100708 | KR20080136113 20081229 | F24J2/46; B08B3/00; B08B3/04; H01L31/042 | YU HEUNG SOO [KR] | SOLAR ARRAY CARING APPARATUS MOVING ON TRACK WITH RECIPROCATION |
| KR20100078167 A 20100708 | KR20080136343 20081230 | F24J2/12; F24J2/06; F24J2/13 | KIM JONG SUN [KR]; CHA JUNG WON [KR]; LEE DONG HEE [KR] | APPARATUS FOR COLLECTING SOLAR RADIATION AND METHOD FOR MANUFACTURING THE SAME |
| KR20100078421 A 20100708 | KR20080136678 20081230 | F24D15/04; F03D9/00; F24J2/02 | IND ACADEMIC COOP [KR] | THE COOLING AND HEATING SYSTEM USING SOLAR AND WIND POWER HYBRID SYSTEM |
| KR20100078840 A 20100708 | KR20080137209 20081230 | H01L31/042; F24J2/38 | THEGO CORP [KR] | METHOD FOR DRIVING SOLAR-CELL PANEL |
| KR20100079870 A 20100708 | KR20080138459 20081231 | F24J2/38; H01L31/042 | DOOWON INDUSTRY CO LTD [KR] | SOLAR PLATE CAPABLE OF TRACING SUN |
| KR20100080300 A 20100708 | KR20080136850 20081230 | H01L31/052; F24J2/00; H01L31/042 | KOREA IND TECH INST [KR]; IND ACADEMIC COOP [KR] | SOLAR CONCENTRATOR WITH LIGHT GUIDING FUNCTION, SOLAR CELL MODULE AND SOLAR HEAT COLLECTOR USING THE SAME |
| KR20100081013 A 20100714 | KR20090000269 20090105 | F24J2/38; F24J2/40; H01L31/042 | TM TECH CO LTD [KR] | APPARATUS FOR SENSING OF SOLAR |
| KR20100081616 A 20100715 | KR20090000920 20090106 | H01L31/042; F24J2/38 | LEE GYE SIK [KR] | DEVICE FOR TRACKING SUNLIGHT USING HEAT EXPANSION FLUID |
| KR20100081663 A 20100715 | KR20090001002 20090107 | F24J2/08; F24J2/00 | HYUN KWAN HAE [KR] | SOLAR ENERGY TRACKING LENS AND PARA BALL RICK BOILER SYSTEM |
| KR20100083102 A 20100721 | DE200910004316 20090112 | F24J2/46; F24D17/00 | ALANTUM EUROP GMBH [DE] | TURBULANCE GENERATOR, SOLAR COLLECTOR PROVIDED WITH THE SAME AND USING METHOD FOR THE SAME |
| KR20100083263 A 20100722 | KR20090002559 20090113 | F24J2/52; F24J2/04; F24J2/46 | JEON MYEONG JA [KR] | SOLAR COLLECTOR |
| KR20100084357 A 20100726 | KR20090003797 20090116 | F24J2/34; F24J2/32; F24J2/40 | KIM WON SU [KR] | OVERHEAT PROTECTION APPARATUS FOR SOLAR HEATING SYSTEM |

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|-----------------------------|---------------------------|--|---|---|
| KR20100085462 A 20100729 | KR20090004752 20090120 | F24J2/00; F24J2/46; H01L31/04 | PARK SE HOON [KR]; VORTEX SEMICONDUCTOR INC [KR]; YOON JIN WON [KR] | POWER GENERATION SYSTEM USING SOLAR ENERGY |
| KR20100086376 A 20100730 | KR20090005720 20090122 | F24J2/38; F24J2/40; F24J2/46 | DALECO PROTECH PARTNERS LP [KR] | SENSOR UNIT FOR TRACKING SUNLIGHT |
| KR20100086626 A 20100802 | KR20090005947 20090123 | F24J2/16; F24J2/52 | SHIN HEE SOO [KR] | SUPPORTING APPARATUS FOR SOLAR CONCENTRATOR MODULE FOR PHOTOVOLTAIC POWER GENERATION |
| KR20100087594 A 20100805 | KR20090006707 20090128 | F24J2/38; F24J2/40; F24J2/54; H01L31/042 | UNIV CHUNG ANG IND [KR] | SOLAR LIGHT COLLECTING APPARATUS |
| KR20100087980 A 20100806 | KR20090007072 20090129 | F24J2/34; F24J2/42; F24J3/08; F25B30/06 | SAMYOUNG CO LTD [KR]; CHO SOO [KR] | HYBRID TYPE COOLING AND HEATING SYSTEM REGENERATIVE IN SUBTERRANEAN |
| KR20100090369 A 20100816 | KR20090009587 20090206 | A47L9/28; A47L9/00; B25J13/08; F24J2/02 | WOONGJIN COWAY CO LTD [KR] | ROBOT CLEANER HAVING LIGHT CONDENSER AND METHOD FOR CONTROLLING POWER CHARGING USING THE SAME |
| KR20100092142 A 20100820 | KR20090011365 20090212 | B65D90/06; B65D88/06; B65D90/04; F24J2/51 | PARK WAL SEO [KR] | KEEPING WARM PE WATER TANK WITH DURABILITY TO HIGH TEMPERATURE |
| KR20100092832 A 20100823 | KR20090012151 20090213 | F24J2/02; F01K27/02; H02J7/35 | PUSAN NAT UNIV IND COOP FOUND [KR] | A COGENERATION EQUIPMENT USING SOLAR ENERGY |
| KR20100094471 A 20100826 | SE20070002374 20071022 | F24J2/52; F24J2/10 | LARSSON STEFAN [SE] | SOLAR ENERGY CONCENTRATOR |

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|-----------------------------|---------------------------|---|--|---|
| KR20100094605 A 20100827 | KR20090013652 20090219 | F24J2/38; H01L31/042 | SAEHAN T & I CO LTD [KR]; UNIV NAT CHONNAM IND FOUND [KR] | OPTICAL SENSOR MODULE FOR SUN LOCATION TRACKING TYPE SOLAR GENERATION SYSTEM |
| KR20100094659 A 20100827 | KR20090013736 20090219 | F24J2/24; F24J2/26; F24J2/30 | MDTECH CO LTD [KR] | DUAL LAYER SOLAR COLLECTOR |
| KR20100095920 A 20100901 | KR20090014970 20090223 | E04D13/03; F21S11/00; F24J2/02 | KIM TAE SEOP [KR] | THE SKYLIGHT SYSTEM FOR COLLECTION AND CONTROLL OF SOLAR ENERGY |
| KR20100096485 A 20100902 | KR20090015385 20090224 | F24J2/02; F24J2/08 | KIM IN JU [KR] | APPARATUS FOR PROCESSING LIGHT |
| KR20100096641 A 20100902 | KR20090015621 20090225 | F24J2/38; H01L31/042 | CHAE JUN SEOK [KR] | DO DAMAGE FROM WIND PREVENTION APPARATUS FOR SOLAR PHOTOVOLTAICS GENERATOR HAVING A TILT |
| KR20100096669 A 20100902 | KR20090015666 20090225 | F24J2/52 | CHAE JUN SEOK [KR] | SUPPORTING STRUCTURE OF SOLAR PHOTOVOLTAICS GENERATOR HAVING A TILT |
| KR20100096945 A 20100902 | KR20090016054 20090225 | F24J2/38; H01L31/042 | UNIV CHUNGJU NAT IND ACAD COOP [KR]; 3G TECHNOLOGIES CO LTD [KR] | 2-AXIS CONTROL DEVICE FOR SOLAR TRACE |
| KR20100097266 A 20100903 | KR20090016121 20090226 | H01L31/058; F24J2/02; F24J2/04; H01L31/042 | NAT UNIV CHUNGBUK IND ACAD [KR] | CONDENSING TYPE SOLAR HEAT AND RAY COGENERATION SYSTEM WITH COOLING PART USING BUBBLE ALLOY |
| KR20100097270 A 20100903 | KR20090016126 20090226 | F24J2/08; F24J2/04; H01L31/042; H01L31/058 | NAT UNIV CHUNGBUK IND ACAD [KR] | CONDENSING TYPE SOLAR HEAT AND RAY COGENERATION SYSTEM |
| KR20100097274 A 20100903 | KR20090016134 20090226 | F24J2/08; F24J2/04; H01L31/042 | NAT UNIV CHUNGBUK IND ACAD [KR] | CONDENSING TYPE SOLAR HEAT AND RAY COGENERATION SYSTEM |

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|-----------------------------|---------------------------|---|--------------------------------------|---|
| KR20100098084 A 20100906 | KR20090017086 20090227 | F24J2/42; F24J2/46 | WOO DO YOUNG [KR] | FLOAT TYPE SOLAR ENERGY GENERATING DEVICE |
| KR20100098495 A 20100907 | SE20070002648 20071129 | F24J2/34; F25B17/08; F28D20/00 | CLIMATEWELL AB PUBL [SE] | THERMAL SOLAR ENERGY COLLECTOR FOR PRODUCING HEAT AND/OR COOLING |
| KR20100098747 A 20100910 | KR20090017384 20090302 | F24J2/52; F24J2/46; H01L31/042 | TM TECH CO LTD [KR] | SOLAR COLLECTOR |
| KR20100098856 A 20100910 | KR20090017536 20090302 | F24J2/08; F24J2/04; H01L31/042; H01L31/058 | KIM KWAN WOO [KR] | CONDENSING TYPE SOLAR HEAT AND RAY COGENERATION SYSTEM |
| KR20100098870 A 20100910 | KR20090017559 20090302 | H02J7/35; F24J2/40 | CSJGLOBAL INC [KR] | PHOTOVOLTAIC POWER GENERATION SYSTEM, APPARATUS AND METHOD FOR TRACKING MAXIMUM POWER POINT |
| KR20100100276 A 20100915 | KR20090019069 20090306 | F03G6/06; F24J2/02 | LEE JONG HO [KR]; KIM BONG SEON [KR] | SOLAR POWER GENERATION SYSTEM |
| KR20100100317 A 20100915 | KR20090019142 20090306 | F24J2/32; F24J2/10; F24J2/18 | CHO LEE SIG [KR] | SOLAR COLLECTOR USING HEAT PIPE |
| KR20100101325 A 20100917 | KR20090019760 20090309 | F24J2/32; F24D15/02; F24J2/08 | KIM BYONG JUN [KR] | HEATING EXCHANGER USING SOLAR HEAT AND HEATING APPARATUS THEREOF |
| KR20100102094 A 20100920 | SG20070016873 20071009 | F24J2/04; E04D13/17; E04D13/18; F24J2/52 | DRAGON ENERGY PTE LTD [SG] | ROOF BASED ENERGY CONVERSION SYSTEM |
| KR20100102402 A 20100924 | KR20090020761 20090311 | H01L31/04; F24J2/38; F24J2/54 | YUN JEONG SIK [KR] | SUNLIGHT-TRACKING APPARATUS FOR SOLAR CELL MODULE PANEL |

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|-----------------------------|---------------------------|---|--|--|
| KR20100103164 A 20100927 | KR20090021641 20090313 | F24J2/38; F24J2/06; F24J2/40; H01L31/058 | SHIN MAN HO [KR]; RIM HYUN KIL [KR]; RHO BYUNG DAE [KR]; LEE KWAN BOK [KR] | SOLAR HEAT POWER GENERATION METHODE BY THERMOELECTRIC GENERATION DEVICE ON TRACKING PEDESTAL |
| KR20100103995 A 20100929 | KR20090022112 20090316 | F24H4/04; F24H9/20; F24J2/34 | CHA SANG JIN [KR]; BAE EUI HAN [KR] | HYBRID TYPE APPARATUS FOR HEATING HOT WATER USING HEAT-PUMP |
| KR20100104676 A 20100929 | KR20090023253 20090318 | F03G3/00; F03G7/06; F24J2/00 | HAM SUNG CHUL [KR] | AN ELECTRIC GENERATION SYSTEM USE OF BUOYANCY AND GRAVITY |
| KR20100106165 A 20101001 | KR20090024655 20090323 | F24D11/00; F24D19/10; F24J2/04 | LEE HAN CHUL [KR]; SEONG HAN CO LTD [KR]; YE HAN CO LTD [KR] | HEATING APPARATUS USING SOLAR HEAT |
| KR20100106166 A 20101001 | KR20090024656 20090323 | F24J2/46; F24J2/04 | LEE HAN CHUL [KR]; SEONG HAN CO LTD [KR]; YE HAN CO LTD [KR] | CONNECTING UNIT FOR SOLAR HEAT COLLECTOR |
| KR20100106276 A 20101001 | KR20100087740 20100908 | F24J2/00; F24J2/42; F24J2/52 | PARK JOON TAI [KR] | SOLAR RADIATION HEATER |
| KR20100107154 A 20101005 | KR20090025293 20090325 | F24J2/16; F24J2/18; F24J2/46 | APACK INC [KR] | REFLECTOR PLATE OF SOLA COLLECTOR |
| KR20100107679 A 20101006 | KR20090025896 20090326 | F24J2/04; F24J2/46 | ROH HONG KOO [KR] | HIGH EFFICENCY SOLAR HEATING SYSTEM OF HELIOSTATS |
| KR20100107844 A 20101006 | KR20090026147 20090326 | F24J2/13; G02B5/10 | SHIN SUK KYUN [KR] | CONCAVE MIRROR OF THE SOLA LIGHT WITH EXCHANGE HEATER |
| KR20100107877 A 20101006 | KR20090026207 20090327 | F24J2/52; H01L31/042 | DMS CO LTD [KR] | SOLAR CELL ASSEMBLY |

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|-----------------------------|---------------------------|---|---|---|
| KR20100108059 A 20101006 | KR20090026517 20090327 | F24J2/04; F24H1/00; F24H9/20; F24J2/40 | MA SANG CHEOL [KR] | SOLAR HOT-WATER HEATING SYSTEM USING SOLAR HOT-WATER HEAT PLATE |
| KR20100108487 A 20101007 | KR20090026708 20090329 | F03B13/00; F03D9/00; F24J2/02 | PARK SEONG SOO [KR] | OCEAN ENERGY-MIX GENERATION-AREA FOR MARINE ENERGY-MIX GENERATION EQUIPMENT |
| KR20100108849 A 20101008 | KR20090027112 20090330 | F24J2/00; H01L31/04 | PUSAN NAT UNIV IND COOP FOUND [KR] | COMPLEX ENERGY CONVERSION SYSTEMS IN SOLAR CELL AND METHOD OF ENERGY CONVERSION USING THE SAME |
| KR20100108989 A 20101008 | KR20090027342 20090331 | F24J2/38; F24J2/04; F24J2/08 | YOON JUNG HO [KR]; YOON CHUNG HYUN [KR]; YUN JEONG SAN [KR] | THE SOLAR HEATING COLLECTOR WITH THE FUNCTION OF TRACKING SLOAR |
| KR20100109292 A 20101008 | KR20090027845 20090331 | F24J2/06; F24J2/08; F24J2/13 | SHIN SUK KYUN [KR] | AIR HEATER BY SOLA LIGHT |
| KR20100109807 A 20101011 | KR20090028272 20090401 | F24J2/04; F24F7/013 | KANGNAM CO LTD [KR]; PARK JUNG SIK [KR] | VENTILATING AND HEATING APPARATUS USING SOLAR HEAT |
| KR20100110114 A 20101012 | KR20090028525 20090402 | F24H7/02; F24H9/20; F24J2/02; F24J2/40 | KIM SUNG MAN [KR] | AUTOMATIC LINK CONTROLLER BETWEEN SOLAR HEAT ACCUMULATOR AND BOILER |
| KR20100110115 A 20101012 | KR20090028526 20090402 | F24H7/02; F24H9/20; F24J2/02; F24J2/40 | KIM SUNG MAN [KR] | HEATING APPARATUS WITH AN AUTOMATIC LINKAGE CONTROLLER BETWEEN SOLAR THERMAL SYSTEM AND BOILER AND THE METHOD THEREOF |
| KR20100110116 A 20101012 | KR20090028527 20090402 | F24J2/46; F24J2/04; F24J2/40 | KIM SUNG MAN [KR] | AUTOMATIC SHUTTER OF SOLAR HEAT COLLECTOR FOR SOLAR HEATING BOILER |
| KR20100110600 A 20101013 | KR20090029022 20090403 | F24J2/04; F24J2/00; F24J2/42 | JEHIN CO LTD [KR] | A SOLAR WATER HEATING SYSTEM |

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|-----------------------------|----------------------------|--|---------------------------------------|---|
| KR20100110637 A 20101013 | KR20090029071 20090403 | F03G7/00; F03D9/00; F24J2/00 | DONG HEUNG CO LTD [KR] | MULTIPLE PURPOSE INTEGRATED POWER COGENERATION SYSTEM USING SOLAR ENERGY AND WIND POWER |
| KR20100111376 A 20101015 | KR20090029765 20090407 | F24J2/04; F24J2/06; F24J2/38; F24J2/46 | SONG JAE HYUNG [KR]; LEE HO SEOK [KR] | HOT WATER AND STEAM SYSTEMS USED ON SOLAR HEAT ENERGY |
| KR20100113900 A 20101022 | KR20090032449 20090414 | F24J2/52; H01L31/04 | HEO SOO KYOUNG [KR] | SOLAR CELL PLATE FOR CEILING SPACE |
| KR20100113951 A 20101022 | KR20090032521 20090414 | F03B13/14; F03B13/24; F24J2/02 | KIM KYONG BOK [KR] | ELECTRIC GEN-ERATOR |
| KR20100114125 A 20101022 | US20080028139P 20080212 | F24J2/06; G02B6/00; H01L31/052 | QUALCOMM MEMS TECHNOLOGIES INC [US] | DUAL LAYER THIN FILM HOLOGRAPHIC SOLAR CONCENTRATOR/COLLECTOR |
| KR20100114590 A 20101026 | KR20090033029 20090416 | H02J7/35; F24J2/02; F24J2/38; H01L31/04 | YOUN SUNG WON [KR] | SOLAR STOREHOUSE SYSTEM INTEGRATION BOARD SYSTEM |
| KR20100114797 A 20101026 | KR20090033367 20090416 | F24J2/38; H01L31/042 | KANG AE KYOUNG [KR] | THE SOLAR AUTOMATIC TRACKING TYPE EQUIPMENT OF ELECTRIC POWER SYSTEM |
| KR20100114849 A 20101026 | KR20090033178 20090416 | F24J2/04 | IS SYSTEM CO LTD [KR] | SOLAR DEVELOPMENT SYSTEM SOLAR LOCATION TRACKING SYSTEM |
| KR20100115200 A 20101027 | KR20090033818 20090417 | F25B30/00; F24D15/04; F24J2/04 | GLOTECH [KR] | HEAT PUMP HAVING SOLAR COLLECTOR |
| KR20100115394 A 20101028 | KR20090033923 20090419 | F24J2/04; F01K27/00; F02C6/18 | RIM HYO JIN [KR] | THE SOLAR HEAT GENERATING SYSTEM HAVING MULTI SERIAL SUPER HEATER |
| KR20100115569 A 20101028 | KR20090034208 20090420 | F24J2/38; H01L31/042 | LEE HYEONG GU [KR] | SOLAR TRACING APPARATUS |
| KR20100116463 A 20101101 | KR20090035196 20090422 | F24J2/40; H01L31/042 | HANKOOK CHAIN MOTOR CO LTD [KR] | SYSTEM AND METHOD FOR CONTROLLING SOLAR-CELL WITH SOLAR POSITION TRACKING |

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|-----------------------------|---------------------------|---|------------------------|--|
| KR20100117274 A 20101103 | KR20090035925 20090424 | F26B3/28; F24J2/04; F26B9/06 | WINIAMANDO INC [KR] | A SOLAR DRY SYSTEM |
| KR20100117858 A 20101104 | KR20090036541 20090427 | F24J2/06; G02B6/00 | LEE JAE WOOK [CA] | SUNLIGHT CONCENTRATING FUNNEL BUNDLE, FUNNEL WITH REFLECTIVE SQUARE GRID OR HEXAGONAL GRID, FUNNEL BUNDLE BALLOON FOR SOLAR STEAM ELECTRIC GENERATING, LIGHTING, HEATING, RAIN GATHERING, HYDROELECTRIC POWER GENERATION |
| KR20100118476 A 20101105 | KR20090037346 20090428 | F24D15/04; F24J2/02; F24J3/08; F25B30/06 | DOOSON CO LTD [KR] | HEAT PUMP HEATING AND COOLING SYSTEM USING DUAL TYPE ENERGY SAVING SYSTEM |
| KR20100119007 A 20101109 | KR20090037903 20090430 | F24J2/38; F03G6/00; H01L31/042; H02N6/00 | KWAK JOONG HWAN [KR] | SUN TRACKER WITH A COMPUTATION PART CALCULATING THE LOCATION OF THE SUN |
| KR20100119134 A 20101109 | KR20090038090 20090430 | F24J2/52; F24J2/38; F24J2/40; H01L31/042 | BETTERTEC CO LTD [KR] | APPARATUS FOR OPERATING SOLAR PANEL OF SOLAR POWER GENERATION DEVICE |
| KR20100119471 A 20101109 | KR20090038175 20090430 | F25B27/00; F24J2/04 | DAE JOO MACHINERY [KR] | HEATING DEVICE AND SOLAR EJECTOR REFRIGERATION SYSTEM THEREWITH |
| KR20100119642 A 20101110 | KR20090038677 20090501 | F24J2/52; F24J2/13; F24J2/38; H01L31/042 | TM TECH CO LTD [KR] | SOLAR COLLECTING APPARATUS |
| KR20100120984 A 20101117 | KR20090039896 20090507 | H01L31/042; F24J2/38 | OSOLAR LTD [KR] | SOLAR GENERATING APPARATUS WITH SOLAR TRACKER |
| KR20100121755 A 20101119 | KR20090040606 20090511 | F24J2/06; F24J2/24; F24J2/30 | TM TECH CO LTD [KR] | SOLAR COLLECTING APPARATUS |

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| KR20100121917 A 20101119 | KR20090040849 20090511 | F03D9/00; F03D3/00; F24J2/02 | KOREA ENERGY RESEARCH INST [KR] | STRUCTURE FOR ESTABLISHING VERTICAL AXIS TYPE WIND POWER GENERATION |
| KR20100122203 A 20101122 | KR20090041131 20090512 | F03D9/00; F24J2/02; H01L31/042 | KUEN TAE HYUNG [KR] | LEAVES SPACE THE BALLOON AND THE MISCONDUCT ORGANIZATION IN AIR AND THE SCENERY ELECTRICITY WHICH PRODUCES AN ELECTRICITY WITH THE WIND POWER AND THE SOLAR STOREHOUSE AND ABOUT HIM PRODUCTIVE METHOD |
| KR20100122248 A 20101122 | KR20090041191 20090512 | F24J2/40; F24J2/38 | SHIN HAENG CHUL [KR]; KIM JONG SEOK [KR] | SOLAR CELL MODULE DRIVING SYSTEM |
| KR20100122250 A 20101122 | KR20090041197 20090512 | F24J2/38 | SHIN HAENG CHUL [KR]; KIM JONG SEOK [KR] | DRIVING CIRCUIT OF SOLAR TRACKER FOR PHOTOVOLTAIC POWER GENERATION |
| KR20100122412 A 20101122 | KR20090041438 20090512 | F24J2/38; F24J2/40; H01L31/042 | FOSTIN POWER CO LTD [KR] | APPARATUS FOR TRACKING SUNLIGHT USING PROJECTED SHADOW AND METHOD OF WEB BASED CONTROLLING TRACKING SUNLIGHT MONITORING |
| KR20100122424 A 20101122 | KR20090041452 20090512 | F24J2/32; F24J2/46 | JUNG BYUNG KI [KR] | SOLAR COLLECTOR BY USING HEATPIPE HAVE SCREW TYPE RADIATOR PIN |
| KR20100123966 A 20101126 | KR20090042960 20090518 | F24J2/04; F24J2/13; F24J2/24; F24J2/30 | TM TECH CO LTD [KR] | SOLAR COLLECTING APPARATUS |
| KR20100124364 A 20101129 | KR20090043319 20090519 | F24J2/04; F24J2/46 | RIM JI HOON [KR] | THE HIGH TEMPERATURE SOLAR HEAT SUPPLY FACILITY HAVING MULTI SERIAL GAS SUPER HEATER |
| KR20100124864 A 20101130 | KR20090043777 20090520 | F24J2/38; H01L31/042 | JEON YOUNG JUNE [CA] | DEVICE FOR TRACKING SUN TRACK |

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| KR20100125002 A 20101130 | KR20090043988 20090520 | F03D9/00; F24J2/02; F24J2/38; H01L31/042 | WINS KOREA [KR] | A COMPLEX GENERATING SYSTEM |
| KR20100126610 A 20101202 | KR20090045228 20090523 | F24J2/38; H01L31/04 | LEE SUNG SU [KR] | THE SOLAR POSITION SEARCH SYSTEM USING ANALOG SIGNAL CONVERSION IN SOLAR-CELL |
| KR20100128043 A 20101207 | KR20090046470 20090527 | F24J2/38; H01L31/042 | TM TECH CO LTD [KR] | CDS SENSOR HOLDER |
| KR20100128154 A 20101207 | KR20090046626 20090527 | F24J2/32; F24J2/04; F24J2/46 | IND ACADEMIC COOP [KR]; CHOI KO WOON [KR] | DEVICE FOR COLLECTING THERMAL ENERGY OF SOLAR |
| KR20100129819 A 20101210 | KR20090048369 20090602 | F24J2/10; F24J2/04; F24J2/24 | BAEK JAE YOUNG [KR] | SYSTEM FOR CONCENTRATING SOLAR ENERGY |
| KR20100130115 A 20101210 | KR20090048794 20090602 | F24J2/38; H01L31/042 | INTMOA CO LTD [KR] | PHOTOPILE CONCENTRATION DEVICE POSSIBLE PHOTOPILE DISPERSION |
| KR20100130515 A 20101213 | KR20090049249 20090603 | F24J2/52; B63B35/44; H01L31/042 | PARK YOUNG HWAN [KR]; GREEN PLUS CO LTD [KR] | APPARATUS FOR TRACKING CONDENSING SUNLIGHT OF WATERF FLOATING TYPE |
| KR20100130517 A 20101213 | KR20090049251 20090603 | F24J2/52; E04D13/18; H01L31/042 | PARK YOUNG HWAN [KR]; GREEN PLUS CO LTD [KR] | APPARATUS FOR CONDENSING SUNLIGHT OF TWO-WAY TRACING FOR LOOF |
| KR20100130683 A 20101214 | KR20090049324 20090604 | F24J2/38; H02J7/00 | WOO JAE HONG [KR] | THE SYSTEM OF SOLAR TRACKING AND BATTERY CHARGING |
| KR20100130707 A 20101214 | KR20090049366 20090604 | F24J2/52; H01L31/042 | LG HAUSYS LTD [KR] | FLAT ROOF TYPE CURTAIN WALL MOUNT ASSEMBLY FOR BUILDING INTEGRATED PHOTOVOLTAIC |
| KR20100130908 A 20101214 | KR20090049655 20090604 | F24J2/38; F24J2/52; H01L31/042 | YU IN SUK [KR] | APPARATUS FOR TRACKING ROUTE OF THE SUN |
| KR20100131313 A 20101215 | KR20090050136 20090605 | F24J2/38 | CHUN DONG IN [KR] | SOLAR POWER PLANT |

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|-----------------------------|---|--|--|---|
| KR20100131843 A 20101216 | KR20090050651 20090608 | F03D1/02; F03D11/00; F03G3/00; F24J2/02 | WOOJU LNT CO LTD [KR] | WIND POWER GENERATOR USING WATER FOR A LAMP |
| KR20100132584 A 20101220 | KR20090051251 20090610 | F24J2/52; F24J2/46; H01L31/042 | TM TECH CO LTD [KR] | SOLAR COLLECTOR |
| KR20100132697 A 20101220 | KR20090051424 20090610 | F24J2/38; H01L31/042 | GTC CORP CO LTD [KR]; SOLAR VISION CO LTD [KR] | A SOLAR GENERATOR HAVING AN ANGLE CONTROL DEVICE |
| KR20100133338 A 20101221 | KR20100114318 20101117 | F03D5/00; F03D1/04; F03D9/00; F24J2/00 | LEE MI HWA [KR] | WIND POWER JENERATOR DEVICE USING SOLAR |
| KR20100134252 A 20101223 | KR20090052774 20090615 | F24F7/08; F24F13/28; F24J2/00 | KUMHO IND CO LTD [KR] | FACADE SYSTEM FOR ENERGY SAVING |
| KR20100134756 A 20101223 | JP20080120538 20080502; JP20080203940 20080807 | F24J2/28; F24J2/08; F24J2/10; F24J2/38 | ELECTRA HOLDINGS CO LTD [JP] | SOLAR ENERGY ABSORBER |
| KR20100135377 A 20101227 | KR20090053707 20090617 | F24J2/06; F24J2/24 | AHN IK RO [KR] | A HEAT COLLECTOR |
| KR20100136772 A 20101229 | KR20090055052 20090619 | F03D9/00; F24J2/02 | SHIN YOUNG CHUL [KR] | ELECTRONIC GENERATOR USING SOLAR AND WIND POWER |
| KR20100137614 A 20101231 | KR20090055744 20090623 | G02B5/04; F24J2/00 | INSIDEOPTICS CO LTD [KR] | HIGH PHOTOVOLTAIC EFFICIENCY OPTICAL FILM FOR SOLAR CELL SYSTEM |
| KR20100137871 A 20101231 | KR20090056117 20090623 | F24J2/52; F24J2/38; H01L31/042 | KOREA ELECTRIC POWER CORP [KR] | PHOTOVOLTAIC POWER GENERATION EQUIPMENT |
| KR20100138506 A 20101231 | KR20090057072 20090625 | F24J2/00; F24D15/00 | JUNG HAE CHANG [KR] | WATER BAG FOR HEATING |

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|----------------------------|----------------------------|---|--|--|
| MD20080287 A 20100730 | MD20080000287 20081204 | F24J2/06; F24J2/00; F24J2/02; F24J2/04; F24J2/05; F24J2/10; F24J2/14; F24J2/24; F24J2/38; F24J2/50; F24J2/54 | CARAGHEAUR MIHAIL [MD] | Tracking solar collector |
| MD20090044 A 20101231 | MD20090000044 20090422 | F24J2/00; F24J2/05; F24J2/20 | INST DE ENERGETICA AL ACADEMIEI DE STIINTE A MOLDOVEI [MD] | Solar heat receiver |
| MD265Y Y 20100831 | MD20090000181U 20090928 | F24J2/42; F03G6/02; F03G6/06; F24H7/00; F24H7/02; F24H7/04; F24J2/00; F24J2/05; F24J2/06; F24J2/24; F24J2/34; F28D1/00; H01L31/042; H02N6/00 | SAINSUS IURII [MD] | Photothermoelectric plant |
| MX2008008559 A 20101221 | MX20080008559 20080619 | F24J2/02 | JASSO JOSE LUIS PICASSO [MX] | IMPROVED SOLAR WATER HEATER WITH STATIC CONCENTRATOR. |
| MX2009001368 A 20100813 | MX20090001368 20090205 | | TOPETE BENJAMIN JAVIER JAUREGUI [MX] | PANEL-FREE SOLAR HEATER. |

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|----------------------------|---|--|---|---|
| MX2009001891 A 20100820 | MX20090001891 20090220 | | CAMPO JOSE LUIS ESTEBAN CORDERO GOMEZ DEL [MX] | SEALED CAP FOR CLOSING SOLAR HEATERS AND PREVENTING WATER FROM COOLING. |
| MX2009002763 A 20100927 | MX20090002763 20090313 | | CAMPO JOSE LUIS ESTEBAN CORDERO GOMEZ DEL [MX] | DEVICE FOR AVOIDING BULKINESS CAUSED BY WATER PRESSURE IN THE SHEETS OF FLAT- SHEET SOLAR HEATERS AND TANK-HEATERS. |
| MX2009003150 A 20100927 | MX20090003150 20090324 | F24J2/42 | CAPTASOL S A DE C V [MX] | SOLAR WATER HEATER. |
| MX2009005287 A 20101111 | MX20090005287 20090507 | F24J2/04 | VILLALPANDO ALFREDO SARDANETA Y [MX] | SOLAR HEATING SYSTEM FOR POOLS. |
| MX2009011338 A 20100818 | FR20070054611 20070420; WO2008FR50689 20080417 | H01L31/042; E04D13/18; F24J2/52; H01L31/048 | ARCELORMITTAL STAINLESS AND NI [FR] | BEARING FRAME FOR A PANEL PHOTOELECTRIC SUCH AS A PHOTOELECTRIC PANEL AND BUILDING EXTERNAL WALL INCLUDING SUCH PANEL. |
| MX2009011340 A 20100830 | FR20070054606 20070420; WO2008FR50699 20080418 | H01L31/048; E04D13/18; F24J2/52 | ARCELORMITTAL STAINLESS AND NI [FR] | STRUCTURE FOR MOUNTING ON A BUILDING WALL FRAMES FOR HOLDING PANELS SUCH AS PHOTOVOLTAIC PANELS. |
| MX2010001997 A 20100823 | EP20090002575 20090224 | F03G6/00; F24J2/48 | MINERA CATALANO ARAGONESA SAMC [ES] | SUPPORT STRUCTURE FOR SOLAR COLLECTOR. |
| MX2010004190 A 20101018 | ES20090001011 20090417 | H01L31/042; F24J2/52 | SENER INGENIERIA Y SIST S S A [ES] | HELIOSTAT FACET. |
| MX2010005412 A 20100802 | EP20070120791 20071115; WO2008GB04057 20081210 | F24J2/52; H01L31/042; H01L31/048 | TECHNOLOGY PARTNERSHIP [GB] | LIGHT TRACKING DEVICE. |

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|----------------------------|--|---|--|---|
| MX2010007684 A 20100831 | AU20080100048 20080116; WO2008AU01530 20081017 | F24J2/02; F24J2/24; F24J2/36; F24J2/42; F24J2/46; F24J2/52; F24J2/54 | SOLEIR LTD [AU] | A SOLAR REFLECTOR. |
| MX2010009326 A 20101221 | EP20080380058 20080226; WO2009EP52310 20090226 | F24J2/14 | RIOGLASS SOLAR S A [ES] | A REFLECTOR ELEMENT FOR A SOLAR HEAT REFLECTOR AND THE METHOD FOR PRODUCING THE SAME. |
| MX2010009803 A 20101221 | EP20080004164 20080306; WO2008EP09181 20081030 | H01L31/042; F24J2/52; H01L31/048 | INVENTUX TECHNOLOGIES AG [DE] | MODULE FOR CONVERTING SOLAR RADIATION INTO ELECTRICITY. |
| MX2010011728 A 20101125 | US20080071610P 20080507; FR20080057712 20081113; WO2009EP55558 20090507 | C12Q1/68; F24J2/07; F24J2/38; F24J2/40; G01N33/68; H01L31/052; H01L31/058 | GALDERMA RES & DEV [FR] | MODULATORS OF CARNITINE OCTANOYLTRANSFERASE IN THE TREATMENT OF ACNE, OF SEBORRHOEIC DERMATITIS OR OF HYPERSEBORRHOEA. |
| NL1036464C C 20100809 | NL20091036464 20090126 | C02F1/14; F24J2/42 | LEGERLEDE HOLDING B V [NL] | WERKWIJZE VOOR HET BENUTTEN VAN FOTOTHERMISCHE ENERGIE TEN BEHOEVE VAN DE PRODUCTIE VAN ZOETWATER UIT ZOUT EN BRAKWATER, ALSMEDE DE GELIJKTIJDIGE PRODUCTIE VAN KOUDE WELKE IS TE BENUTTEN VOOR KOELDOELEINDEN, VAN GEBOUWEN EN PRODUCTIE PROCESSEN, ALS ALTERNATIEF VOOR DE KLASSIEKE KLIMAAT CONDITIONERINGS INSTALLATIE. |
| NL1036649C C 20100903 | NL20091036649 20090302 | F24J2/04 | LUIJTEN SMEULDERS ARCHITECTEN B V [NL]; SINIS V O F [NL] | GEBOUW MET MIDDELEN VOOR ENERGIEPRODUCTIE. |

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|--------------------------|---|---|--|---|
| NL1036855C C 20101018 | NL20091036855 20090415 | F24J2/26 | CONS GROEP B V [NL] | WARMTECOLLECTOR EN WARMTE COLLECTERENDE DAKCONSTRUCTIE. |
| NL1037010C C 20101208 | NL20091037010 20090603 | F24J2/04; F24J2/52; H01L31/042 | ECOFYS NETHERLANDS B V [NL] | A METHOD OF MOUNTING A MULTITUDE OF DEVICES FOR HANESSING SOLAR ENERGY, A POSITIONING BODY FOR USE IN SAID METHOD, A CLAMP GUIDING BODY, AND A PREFAB ROOF ELEMENT. |
| NL1037094 A 20100817 | NL20091037094 20090702; NL20091036575 20090216 | E04D13/18; F24J2/52; H01L31/042 | EUROP S ENERGY POINT [NL] | TWEEDE SERIE AANVULLENDE KENMERKEN VAN HET ZONNESYSTEEM DAT ELEKTRICITEIT PRODUCEERT BOVEN SPOORLIJNEN. |
| NL1037105C C 20101004 | NL20091036790 20090331; NL20091037105 20090708 | E04D13/18; F24J2/52 | SOMMEREN GERARDUS FRANCISCUS JOHANNES [NL] | DRAAGSYSTEEM EN ZONNEPANEEL VOORZIEN VAN EEN DERGELIJK DRAAGSYSTEEM. |
| NL2002448C C 20100726 | NL20092002448 20090123 | F24D3/16; F24J2/04 | MAGER CORNELIS PAUL [NL]; SLEBOS HENK [NL]; BUUREN TERENCE HANS VAN [NL] | WARMTEWISSELAARPANEEL, GESCHIKT ALS BOUWELEMENT IN DE VORM VAN EEN PLAFOND-, MUUR-, DAK- EN/OF VLOERELEMENT. |
| NL2002529C C 20100816 | NL20092002529 20090213 | F24J2/07 | NEM B V [NL] | SOLAR RECEIVER HAVING BACK POSITIONED HEADER. |
| NL2002778C C 20101028 | NL20092002778 20090423 | F24J2/54 | VALK SYSTEMEN B V V D [NL] | KANTELBAAR DRAAGINRICHTING VOOR ZONNEPANELEN. |
| NL2002779C C 20101026 | NL20092002779 20090423 | F24J2/54 | VALK SYSTEMEN B V V D [NL] | DRAAGINRICHTING VOOR ZONNEPANELEN. |
| NL2003041C C 20101221 | NL20092003041 20090618 | E03B3/00; F24J2/52; F24J2/54; H01L31/042; H01L31/045; H01L31/048 | SUBLEAN GROUP B V [NL] | INRICHTING EN WERKWIJZE VOOR HET VOOR EEN VARIABLE FUNCTIE BENUTTEN VAN EEN OPPERVLAK. |

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|--------------------------|---|--|---|--|
| NL2003336 A 20101018 | NL20091036855 20090415; NL20092003336 20090805 | F24J2/26; F24J2/46 | CONS GROEP B V [NL] | WARMTECOLLECTOR EN WARMTE COLLECTERENDE DAKCONSTRUCTIE. |
| NL2005008 A 20101029 | WO2009EP59444 20090722 | F24J2/26; H01L31/058 | HELIOS MULTI ENERGY ROOFING SYSTEM B V [NL] | SYSTEM AND METHOD SUITABLE FOR CONVERTING SOLAR ENERGY. |
| NZ553580 A 20101029 | US20040935396 20040908; WO2005EP09593 20050907 | F24J2/52 | NIKOLAUS JOHANNES LAING | Three rotating circular floating solar platforms that follow the sun |
| NZ555529 A 20101126 | AU20040906923 20041203; WO2005AU01823 20051202 | H01Q15/16; F24J2/52; H01Q19/12; H01Q19/17 | EDO DOL | A reflector assembly for energy concentrators with an annular array of concentric reflective elements |
| NZ560755 A 20100930 | AU20050900451 20050204; WO2006AU00115 20060131 | F24J2/48; F16K31/64; F24J2/04; G05D23/02 | RHEEM AUSTRALIA PTY LTD | An overtemperature protection system for a solar water heating system |
| PL118263U U1 20101206 | PL20090118263U 20090601 | F24J2/05; F24J2/50 | SUNEX SPOLKA Z OGRANICZON&AOGON; ODPOWIEDZIALNOSCI&AOGON; [PL] | Solar collector |
| PL386991 A1 20100719 | PL20090386991 20090105 | F24F12/00; F24D11/00; F24J2/42 | | Integrated system of heating, ventilation, air conditioning as well as warming up of hot service water in a building |
| PL387525 A1 20100927 | PL20090387525 20090317 | F24J2/05 | TR & EOGON BOWICZ RAFA & LSTRO [PL] | System for distribution of a medium heated in a solar energy collector |
| PL387644 A1 20101011 | PL20090387644 20090330 | F24J2/05 | ECOJURA SPO & LSTROK KA Z OGRA [PL] | Solar collector |

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|--------------------------|----------------------------|-----------------------------|--|--|
| PL65032Y Y1 20100730 | PL20090117421U 20091026 | F24J2/52 | | Handle of the vacuum pipe of the solar interceptor |
| PL65036Y Y1 20100730 | PL20090117461U 20091123 | F24J2/05 | | Vacum collector distributor assembly |
| PT104590 A 20101125 | PT20090104590 20090525 | F24J2/12 | UNIV DO ALGARVE [PT] | COLECTOR SOLAR PARA AQUECIMENTO DE FLUÍDO TÉRMICO COM DUPLO CIRCUITO INTEGRADO |
| RS47404 B 20101231 | RSP47404 20040528 | F24J2/00 | SPINDLER ALEKSEJ [RS]; SPINDLER TAMARA [RS] | SOLAR COLLECTORS WITH SPACED REFLECTIVE MIRRORS AND THE APPLICATION OF SOLAR COLLECTORS FOR AIR PRE-HEATING |
| RU2395043 C1 20100720 | RU20090128833 20090727 | F24J2/42 | KHARITONOV PETR TIKHONOVICH [RU] | METHOD, DEVICE AND MAGNETIC TRAP FOR CONTROLLING ENERGY EFFICIENCY AND LIGHT TRANSMITTANCE OF SOLAR COLLECTOR WITH LIQUID HEAT CARRIER |
| RU2395758 C1 20100727 | RU20090113382 20090409 | F24J2/42 | MIN PROMY I TORGOVLI RF [RU] | SOLAR POWER STATION |
| RU2396493 C1 20100810 | RU20090119875 20090527 | F24J2/10 | ROSSIJSKAJA AKADEMIJA SEL SKOK [RU] | SOLAR PLANT WITH HUB |
| RU2396494 C1 20100810 | RU20090117585 20090508 | F24J2/14; F24J2/42 | G OBRAZOVATEL NOE UCHREZHDENIE [RU] | FOCUSING SOLAR SET |
| RU2396495 C1 20100810 | RU20090100233 20090111 | F24J2/42 | UCHREZHDENIE ROSSIJSKOJ AKADEM [RU] | SELF-CONTAINED SYSTEM FOR DIRECTING SUN RAYS ONTO OBJECT |
| RU2398162 C1 20100827 | RU20090118250 20090514 | F24J2/24 | MELIKOV EHDUARD NIKOLAEVICH [RU]; JUROV ALEKSEJ IVANOVICH [RU] | METHOD AND DEVICE FOR CONTROL OF HEAT-MASS TRANSFER IN GAS MEDIUM |
| SE0900090 A1 20100730 | SE20090000090 20090129 | F24J2/10; F24J2/24 | SOLKUNGEN AB [SE] | Anordning vid en solfångare |

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|--------------------------|---------------------------|---|--|---|
| SE0900198 A1 20100818 | SE20090000198 20090217 | F24J2/07; F24J2/10; H01L31/052; H01L31/058 | ABSOLICON SOLAR CONCENTRATOR AB [SE] | Receiver för PV/T solenergisystem |
| SE0900497 A1 20101016 | SE20090000497 20090415 | H01L31/042; G01S3/786 | GLOBAL SUN ENGINEERING SWEDEN AB [SE] | Solföljningssensor för styrning och iorientering av en solpanel |
| SE0901475 A1 20100914 | SE20090001475 20091123 | F24J2/20; E04B1/00 | NORDISKA BALCO AB [SE] | Anordning för uppvärmning av luft på en inglasad balkong |
| SE0950470 A1 20101219 | SE20090050470 20090618 | F24J2/36; F24J2/20 | SOLTECH ENERGY SWEDEN AB [SE] | Ljusabsorberande anordning |
| SE1000544 A1 20100827 | SE20100000544 20100521 | C09C1/24; C09C1/34; C09C3/08; F24J2/48; H01L31/0216 | ELECTROLUX AB [SE] | Hushållsmaskin |
| SE533355 C2 20100831 | SE20090000091 20090129 | F24J2/16; F24J2/24; F24J2/42 | SOLKUNGEN AB [SE] | Solfångare |
| SE533461 C2 20101005 | SE20080001406 20080616 | F25B30/06; F24J2/44 | CLIMATEWELL AB [SE] | Utsläppsfritt kylsystem |
| SI22981 A 20100831 | SI20090000355 20091112 | | SOLARNI TERMO SISTEMI STS D D [SI] | MODULAR SYSTEM OF A DUCT GRID OF SOLAR CELLS FOR HEATING AIR |
| SI23002 A 20100930 | SI20090000085 20090330 | | KEMIJSKI INST [SI] | Procedure for sol-gel preparation of corrosion protection coatings for solar collectors |
| SI23059 A 20101130 | SI20090000148 20090525 | | HROVATIC IGOR [SI] | Collector for collecting and converting solar energy |
| SI23060 A 20101130 | SI20090000150 20090526 | F24J2/06; G02B7/182 | SONCNA EN D O O [SI] | Laminated curved panel, preferentially parabolic one with mirror, and procedure of its manufacture |
| SI23081 A 20101231 | SI20100000243 20100813 | F24J2/04; F26B3/02 | SOLARNI TERMO SISTEMI STS D D [SI] | DEVICE AND METHOD FOR DRYING BY WAY OF SOLAR CELLS |

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|-----------------------------|--|---------------------------------------|--|--|
| TR200900233 A1 20100823 | TR20090000233 20090113 | F24J2/00; A23L3/40; F26B9/02 | GOEKSER MAK SAN VE TIC LTD STI [TR] | Hibrid gıda kurutma sistemi |
| TR200900344 A2 20100823 | TR20090000344 20090116 | F24J2/00 | SAHIN OKAN [TR] | Tanksız güneş enerjili su ısıtma ünitesi |
| TR201001739U U 20100721 | TR20100001739U 20100309 | F24J2/54 | OEZEL SERGUEN GUENISI INSAAT M [TR] | Güneş enerjisi sistemlerinde yenilik. |
| TR201001740U U 20100823 | TR20100001740U 20100309 | F24J2/04 | OEZEL SERGUEN GUENISI INSAAT M [TR] | Güneş enerjisi sistemi deposunda yenilik. |
| TR201002996U U 20100721 | TR20100002996U 20100416 | F24J2/18; G02B5/08 | BUITEM METAL FORM SAN VE TIC A [TR] | Vakum tüplü, basınçlı, direk sirkülasyonlu kolektör. |
| US2010163014 A1 20100701 | US20090642704 20091218; US20080141202P 20081229 | F24J2/46; B25J9/04 | SKYLINE SOLAR INC [US] | HIGH GROUND COVER RATIO SOLAR COLLECTION SYSTEM |
| US2010163015 A1 20100701 | US20090604973 20091023 | F24J2/46 | CHEVRON USA INC | SOLAR CANOPY CONNECTOR SYSTEM |
| US2010163016 A1 20100701 | CN20051027212 20050628; WO2006CN01476 20060627 | F24J2/42; F24J2/00; F24J2/04 | | Method for Producing Hot Water Utilizing Combined Heat Resources of Solar Energy and Heat Pump in the Manner of Heating Water at Multiple Stages and Accumulating Energy and a Device Especially for Carrying Out the Method |
| US2010170293 A1 20100708 | WO2007RU00514 20070914 | F24J2/52; E04D13/18; H01L31/048 | IP REACT LLC [US] | Autonomous Power Supply System |
| US2010170497 A1 20100708 | US20090319248 20090105 | F24J2/40 | KENERGY DEV CORP | Reciprocating solar engine |
| US2010170498 A1 20100708 | US20090349887 20090107 | F24J2/40; G01J3/28; G01J3/42 | HAMILTON SUNDSTRAND CORP [US] | AIR INSTRUMENTATION SYSTEM FOR CONCENTRATED SOLAR POWER GENERATION SYSTEMS |

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|-----------------------------|---|---|-------------------------------|--|
| US2010170499 A1 20100708 | US20070376836 20070808; US20060836282P 20060808; US20060849678P 20061004; WO2007IL00989 20070808 | B01D5/00; B01D53/02; B23P19/04; F24J2/32; F25D31/00 | EWA TECH LTD [IL] | METHOD AND APPARATUS FOR EXTRACTING WATER FROM ATMOSPHERIC AIR AND UTILIZING THE SAME |
| US2010170500 A1 20100708 | US20090349838 20090107 | F24J2/04 | HAMILTON SUNDSTRAND CORP [US] | AIR DRYING SYSTEM FOR CONCENTRATED SOLAR POWER GENERATION SYSTEMS |
| US2010170501 A1 20100708 | US20090639970 20091216; US20080141642P 20081230 | F24J2/04; F04B49/10; F28F13/12 | PVT SOLAR INC [US] | METHOD AND SYSTEM FOR OPERATING A THERMAL SOLAR SYSTEM USING A REVERSE MOTOR CONFIGURATION |
| US2010170502 A1 20100708 | US20090383353 20090323; US20090319248 20090105; US20090321402 20090120 | F24J2/10 | KENERGY DEV CORP | Reciprocating solar engine with solar reflectors |
| US2010170560 A1 20100708 | US20090456656 20090619; US20080132490P 20080619 | F24J2/10; B32B27/00; F25B21/02; H01L31/052 | | Durable, lightweight, and efficient solar concentrator |
| US2010175685 A1 20100715 | US20100685529 20100111; US20090502085 20090713; US20080080554P 20080714 | F24J2/04; F24J2/22; F24J2/26; F24J2/46 | | Advanced Tracking Concentrator Employing Rotating Input Arrangement and Method |
| US2010175686 A1 20100715 | TW20090200608U 20090114 | F24J2/38; F24J2/02 | | Solar Energy Collector |

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|-----------------------------|---|--|------------------------------------|--|
| US2010175687 A1 20100715 | US20090319894 20090113 | F24J2/46; F03G6/00; F24J2/04 | HAMILTON SUNDSTRAND CORP [US] | Catalyzed hot gas heating system for concentrated solar power generation systems |
| US2010175688 A1 20100715 | SE20070001468 20070615; WO2008SE50715 20080613 | F24J2/04 | SOLTECH ENERGY SWEDEN AB [SE] | A LIGHT ABSORBER DEVICE |
| US2010175689 A1 20100715 | US20090319893 20090113 | F24C3/02; F23L15/00; F24J2/00; F24J2/42 | HAMILTON SUNDSTRAND CORP [US] | Catalyzed hot gas heating system for pipes |
| US2010175733 A1 20100715 | ES20070000538 20070301; WO2008ES00050 20080131 | H01L35/00; F24J2/34; F24J2/40 | WATTPIC EN INTELLIGENT S L [ES] | MACHINE COMPRISING A SOLAR HEAT SOURCE |
| US2010176602 A1 20100715 | US20070066054 20070727; US20070905729P 20070308; WO2007US74646 20070727 | F02B63/04; F02C6/00; F03G6/00; F24J2/34 | | SOLAR POWER PLANT AND METHOD AND/OR SYSTEM OF STORING ENERGY IN A CONCENTRATED SOLAR POWER PLANT |
| US2010179678 A1 20100715 | US20100694190 20100126; US20040922117 20040819; US20030496476P 20030820; US20030517438P 20031105 | F25B27/00; F24J2/04; F25B13/00; F25B29/00; F25D17/02 | SUNPOWER CORP SYSTEMS [US] | PV Wind Performance Enhancing Methods |

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|-----------------------------|--|--|-------------|--|
| US2010180884 A1 20100722 | US20100692539 20100122; US20090146508P 20090122; US20090171263P 20090421; US20090254963P 20091026 | F24J2/38; F24J2/52 | | ACTUATED SOLAR TRACKER |
| US2010180885 A1 20100722 | US20090355804 20090119 | F24J2/40; F24J2/51 | | SOLAR ENERGY-BASED WATER HEATING AND POWER GENERATING MODULE |
| US2010180886 A1 20100722 | TW20090101854 20090119 | F24J2/38 | | STRUCTURE AND METHOD FOR CONTROLLING SOLAR ENERGY BOARD |
| US2010180887 A1 20100722 | US20090355995 20090119 | F24J2/48 | | Solar Energy Collection System and Components |
| US2010186732 A1 20100729 | ZA20070000279 20070710; WO2008IB52714 20080707 | F24J2/40; F24J2/04; F24J2/50 | | FLUID HEATING SYSTEM |
| US2010186733 A1 20100729 | AT20070000512 20070330; WO2008AT00117 20080328 | F24J2/36 | HELIOVIS AG | Inflatable Solar Collector |
| US2010186734 A1 20100729 | DK20070000195 20070205; WO2008DK50024 20080205 | F24J2/04; F24F7/00; F24J2/00; G05B15/00 | | SOLAR AIR HEATER FOR HEATING AIR FLOW |
| US2010186820 A1 20100729 | US20090459391 20090630; US20080291544 20081110; WO2008US14081 20081226 | H01L31/00; F03G6/06; F24J2/04; F24J2/24 | | Solar electricity generation with improved efficiency |

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|-----------------------------|--|--|---------------------------------------|--|
| US2010191378 A1 20100729 | US20080532942 20080326; US20070896991P 20070326; WO2008US58305 20080326 | G05B15/00; F03G6/06; F24J2/38; F24J2/40 | BRIGHTSOURCE IND ISRAEL LTD [US] | DISTRIBUTED POWER TOWERS WITH DIFFERENTIATED FUNCTIONALITIES |
| US2010192940 A1 20100805 | KR20070088774 20070903; WO2007KR05354 20071029 | F24J2/07; F03G6/06; F24J2/10; F24J2/18 | | Sun Following Sensor Unit And A Sun Following Apparatus Having The Same Therewith |
| US2010192941 A1 20100805 | US20090416207 20090401; US20090148488P 20090130 | F24J2/38 | | Solar Concentration System With Micro-Mirror Array |
| US2010192942 A1 20100805 | AU20070905197 20070924; AU20070906960 20071219; WO2008AU00772 20080530 | F24J2/38 | GLOBAL PRODUCT DESIGN PTY LTD [AU] | SOLAR TRACKING SYSTEM |
| US2010192943 A1 20100805 | NZ20070556555 20070716; WO2008IB01837 20080716 | F24J2/24 | | SOLAR HEAT COLLECTION SYSTEM |
| US2010192944 A1 20100805 | US20090366644 20090205 | F24J2/08; B01D3/00; F03G6/06 | | SOLAR WATER HEATER AND DISTILLER |

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|-----------------------------|---|---|-------------------------------|---|
| US2010199577 A1 20100812 | US20100660120 20100219; NL20041025191 20040108; US20060585678 20060707; WO2005NL00009 20050110 | F24J2/00 | | Cover for an object using solar radiation |
| US2010199669 A1 20100812 | DE200810036527 20080806 | F24J2/34; F03G6/00 | | Thermal Energy Store |
| US2010199969 A1 20100812 | US20090378147 20090210 | F24J2/42 | | Pool protection and solar heating cover |
| US2010199970 A1 20100812 | US20090378369 20090212 | F24J2/00 | | Trough heat collector element insulator |
| US2010199971 A1 20100812 | US20090367527 20090208 | F24J2/38 | ATOMIC ENERGY COUNCIL [TW] | Controlling Apparatus for a Concentration Photovoltaic System |
| US2010199973 A1 20100812 | NZ20060551361 20061114; WO2007NZ00336 20071114 | F24J2/42; F24J2/00; F24J2/04; F24J2/32 | | SYSTEM AND METHOD FOR HEATING WATER |
| US2010199975 A1 20100812 | US20100657259 20100119; US20090322944 20090210 | F24J2/52; F16M13/00 | | Solar thermal collector cabinet and system for heat storage |

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|-----------------------------|--|---|------------------------------------|---|
| US2010199977 A1 20100812 | US20100703861 20100211; US20090151984P 20090212; US20090152011P 20090212; US20090152035P 20090212; US20090152049P 20090212; US20090152077P 20090212; US20090152114P 20090212; US20090152286P 20090213 | F24J2/00 | BABCOCK POWER SERVICES INC [US] | PANEL SUPPORT SYSTEM FOR SOLAR BOILERS |
| US2010199981 A1 20100812 | US20090368460 20090210 | F24J2/51 | SOLAR DESIGN GROUP LLC | PASSIVE SOLAR PORTABLE HEATER |
| US2010205963 A1 20100819 | US20100770194 20100429; US20080198219 20080826 | E04C2/52; F24D3/12; F24J2/04; F24J2/34; F28D20/02 | | CONCENTRATED SOLAR POWER GENERATION SYSTEM WITH DISTRIBUTED GENERATION |
| US2010206298 A1 20100819 | US20080675517 20080831; US20070969088P 20070830; WO2008IL01180 20080831 | F24J2/24; F03G6/06; F24J2/00; F24J2/46 | YEDA RES & DEV [IL] | SOLAR RECEIVERS AND SYSTEMS THEREOF |

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|-----------------------------|---|--|--------------------------------|---|
| US2010206299 A1 20100819 | US20070974282 20071012; WO2008US11682 20081010; US20080682450 20081010 | F24J2/10 | | SOLAR PANEL |
| US2010206300 A1 20100819 | US20100708092 20100218; US20090153748P 20090219 | F24J2/52; H01L31/042 | INNOVATION MASTERS LLC [US] | SOLAR ENERGY COLLECTING SYSTEM AND METHOD |
| US2010206301 A1 20100819 | US20100689688 20100119; US20090145635P 20090119 | F24J2/34 | JAC PRODUCTS INC [US] | SYSTEM AND METHOD FOR FORMING AN INTERLOCKING SOLAR PANEL ARRAY |
| US2010206302 A1 20100819 | US20090473240 20090527; US20090388500 20090218 | F24J2/12 | PALO ALTO RES CT INC [US] | Rotational Trough Reflector Array For Solar-Electricity Generation |
| US2010206303 A1 20100819 | US20090389286 20090219 | F24J2/10 | | Solar Concentrator Truss Assemblies |
| US2010206379 A1 20100819 | US20090611842 20091103; US20090388500 20090218 | H01L31/00; F24J2/10 | PALO ALTO RES CT INC [US] | Rotational Trough Reflector Array With Solid Optical Element For Solar-Electricity Generation |
| US2010212653 A1 20100826 | US20090392316 20090225 | F24J2/38 | SOLFOCUS INC [US] | Field Level Tracker Controller |
| US2010212654 A1 20100826 | ES20070001932 20070710; ES20080001950 20080630; WO2008ES00486 20080709 | F24J2/38; B23P15/26; F24J2/02; F24J2/08; F24J2/10; F24J2/24 | | SOLAR ENERGY CONCENTRATOR AND MOUNTING METHOD |

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|-----------------------------|--|--------------------------------------|--|---|
| US2010212656 A1 20100826 | US20090501396 20090710; US20080079787P 20080710 | F24J2/34; F28D20/00 | INFINIA CORP [US] | THERMAL ENERGY STORAGE DEVICE |
| US2010212657 A1 20100826 | DK20050000933 20050624; WO2006EP05896 20060620 | F24J2/46; F24J2/50 | | Solar Collector |
| US2010212658 A1 20100826 | DK20050000934 20050624; WO2006EP05812 20060616 | F24J2/46; F24J2/50 | | Solar Collector |
| US2010212659 A1 20100826 | US20090390801 20090223 | F24J2/46 | PURE POWER DISTRIB LLC [US]; WEST COAST GREEN POWER INC [US] | Trailer With Solar Panels |
| US2010212660 A1 20100826 | NL20071034015 20070622; WO2008NL50416 20080623 | F24J2/24; F24J2/08 | | DEVICE FOR COLLECTING SOLAR ENERGY |
| US2010212719 A1 20100826 | US20080666431 20080625; US20070946138P 20070625; WO2008GB02239 20080625 | H01L31/052; F24J2/10; F24J2/34 | | SYSTEM AND METHODS OF UTILIZING SOLAR ENERGY |

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|-----------------------------|---|---|-------------------------------|---|
| US2010218491 A1 20100902 | US20080091215P 20080822; WO2008US82449 20081105; US20080741492 20081105; US20070001867P 20071105 | F15B13/00; C01B3/02; C01B3/08; C01B31/18; F24J2/00 | | METAL FERRITE SPINEL ENERGY STORAGE DEVICES AND METHODS FOR MAKING AND USING SAME |
| US2010218756 A1 20100902 | US20100712208 20100225; US20090202439P 20090227 | F24J2/24; F24J2/51 | | HEAT RETAINING COVER FOR SWIMMING POOLS |
| US2010218757 A1 20100902 | DK20050000906 20050620; DK20050001844 20051229; WO2006DK00358 20060620 | F24J2/40; F24J2/00; F24J2/04 | CN ENERGY DEV AS [DK] | SOLAR WATER HEATING SYSTEM |
| US2010218758 A1 20100902 | US20090622472 20091120 | F24J2/38 | IBM [US] | SOLAR ENERGY ALIGNMENT AND COLLECTION SYSTEM |
| US2010223807 A1 20100909 | WO2008RS00034 20081106; RSP20070441 20071108 | F26B21/08; F24J2/38; F25B1/00; F26B25/00; F26B25/18 | | Solar And Electric Energy Dryers |
| US2010223925 A1 20100909 | JP20090053466 20090306 | F24J2/24 | MITSUBISHI HEAVY IND LTD [JP] | SOLAR THERMAL RECEIVER AND SOLAR THERMAL POWER GENERATION FACILITY |
| US2010224181 A1 20100909 | TW20090106895 20090303 | F24J2/38 | UNIV NAT TAIWAN [TW] | HIGH-EFFICIENCY ARRAY TYPE FOCUSING SOLAR TRACKING SYSTEM |
| US2010224182 A1 20100909 | AU20070905405 20071003; WO2008AU01476 20081003 | F24J2/40; F16K1/16; F24J2/00; F24J2/04 | DUX MFG LTD [AU] | Solar Hot Water System and Method of Operating a Solar Hot Water System |

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|-----------------------------|---|-------------------------------------|--|---|
| US2010224183 A1 20100909 | MX2006NL00045 20060724; WO2007MX00087 20070723 | F24J2/24 | ITESM [MX] | Flat Vacuum Solar Collector Having Chamber-Type Heads |
| US2010224234 A1 20100909 | US20100660646 20100302; US20090209007P 20090303 | F24J2/46; F24J2/00 | | Solar energy system |
| US2010229850 A1 20100916 | US20070651396 20070110 | F24J2/38; F24J2/10; F24J2/36 | RSV INV ENTPR | Inflatable heliostatic solar power collector |
| US2010229852 A1 20100916 | US20100661321 20100313; US20090210198P 20090316 | F24J2/30; G05D9/00; G05D23/00 | | Solar energy module |
| US2010229854 A1 20100916 | US20090381696 20090316 | F24J2/08 | | Solar energy collector |
| US2010236539 A1 20100923 | US20090561172 20090916; US20080097321P 20080916; US20080097304P 20080916 | F24J2/38; F24J2/00 | | SOLAR CONCENTRATOR AND PORTABLE TRACKING DEVICE |
| US2010236540 A1 20100923 | FR20070058011 20071002; WO2008IB02538 20080924 | F24J2/38; H01L31/042 | | DEVICE FOR COLLECTING SOLAR RADIATION |
| US2010236543 A1 20100923 | DE200610039804 20060825; WO2007EP58809 20070824 | F24J2/48; B05D1/28; F24J2/00 | HYDRO ALUMINUM DEUTSCHLAND GMB [DE] | Method for the production of an absorber plate for solar collectors |

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|-----------------------------|--|--|-----------------------------------|---|
| US2010236604 A1 20100923 | US20100714058 20100226; US20090156635P 20090302 | F24J2/38; H01L31/042 | | VERTICAL SOLAR PANEL ARRAY AND METHOD |
| US2010237028 A1 20100923 | US20090383240 20090320 | F24J2/52; A47B81/00; B23P11/00 | NORTHERN STATES METALS COMPANY | Support system for solar panels |
| US2010242948 A1 20100930 | US20100662086 20100330; US20090202745P 20090331 | F24J2/10; H01L31/052 | | Solar collector-reflector system |
| US2010242949 A1 20100930 | JP20090081823 20090330 | F24J2/38; F24J2/24 | MITSUBISHI HEAVY IND LTD [JP] | SUNLIGHT COLLECTING HEAT RECEIVER |
| US2010242950 A1 20100930 | US20100749286 20100329; US20070681983 20070305 | F21V7/04; F24J2/10; G02B6/00; G02B6/42 | TACO INC [US] | Solar Heating Systems |
| US2010242951 A1 20100930 | US20100751114 20100331; US20090165183P 20090331 | F24J2/38; F24J2/10 | | APPARATUS FOR INHIBITING PRESSURE FLUCTUATIONS AND MOISTURE CONTAMINATION WITHIN SOLAR COLLECTORS AND MULTI-GLAZED WINDOWS |
| US2010242952 A1 20100930 | US20090411702 20090326 | F24J2/08; F28F1/10 | | SOLAR POWER SYSTEM WITH TOWER TYPE HEAT DISSIPATING STRUCTURE |
| US2010242953 A1 20100930 | US20100709045 20100219; US20090164047P 20090327 | E04D13/18; A01G9/00; A01G9/14; B32B3/00; E04C2/54; E04D3/28; F24J2/06; F24J2/50; H01L31/00 | PPG IND OHIO INC [US] | SOLAR REFLECTING MIRROR HAVING A PROTECTIVE COATING AND METHOD OF MAKING SAME |

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|-----------------------------|--|------------------------------------|--------------------------------|--|
| US2010252024 A1 20101007 | US20100727124 20100318; US20090161316P 20090318 | F24J2/24; F24J2/04 | | System and Method for Aligning Heliostats of a Solar Power Tower |
| US2010252025 A1 20101007 | US20080670622 20080728; US20070951970P 20070726; WO2008US71366 20080728 | F24J2/38; F24J2/24 | | SOLAR RECEIVER |
| US2010252027 A1 20101007 | US20090384220 20090402 | F24J2/40; F24J2/10 | RSV INV ENTPR | Low-cost heliostatic mirror with protective inflation stabilizable surface element means |
| US2010252029 A1 20101007 | JP20090091565 20090403 | F24J2/24; F24J2/00 | HONDA MOTOR CO LTD [JP] | HOT WATER FEEDER |
| US2010252030 A1 20101007 | US20090416536 20090401 | F24J2/12; B23P15/26 | ABENGOA SOLAR INC [US] | TORQUE TRANSFER BETWEEN TROUGH COLLECTOR MODULES |
| US2010257882 A1 20101014 | US20100820241 20100622; US20080205979 20080908; WO2009US49741 20090707; US20080086819P 20080807 | F25B27/00; F24J2/04 | | HYBRID WATER HEATING SYSTEM |
| US2010258110 A1 20101014 | WO2007EP05475 20070621 | F24J2/40 | VOLTWERK ELECTRONICS GMBH [DE] | Modular Pivotal Solar Collector Arrangement |
| US2010258113 A1 20101014 | US20090421967 20090410 | F24J2/46; E06B9/24 | | LIGHT WING DEVICE |
| US2010263296 A1 20101021 | GB20070024101 20071210; WO2008GB03938 20081126 | E04B5/43; E04B1/38; F24J2/38 | | Floor and Electrical Generator Module |

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|-----------------------------|--|--|---------------------------|--|
| US2010263297 A1 20101021 | US20100829647 20100702; US20080141792 20080618; US20040783808 20040221; US20030450004P 20030226; US20030477985P 20030612; US20030478036P 20030612 | E04D13/18; E04B1/38; E04D13/064; E04H14/00; F24J2/52; H01L31/042; H01L31/048 | UNIRAC INC [US] | LOW PROFILE MOUNTING SYSTEM |
| US2010263396 A1 20101021 | US20100826448 20100629; US20040963646 20041014; US20030510155P 20031014 | F25D21/14; B01D5/00; F24J2/07 | | ATMOSPHERIC WATER COLLECTION DEVICE |
| US2010263660 A1 20101021 | US20090425351 20090416 | F24J2/38 | | Solar Power Production and Metering |
| US2010263661 A1 20101021 | US20090424058 20090415 | F24J2/46 | | Roof Panel |
| US2010263662 A1 20101021 | IT2007RM00474 20070914; WO2008IT00588 20080912 | F24J2/20; F24J2/24 | IMPROGEST SOLARE SRL [IT] | THERMAL INSULATING COVERING AND/OR COATING STRUCTURE WITH LINEAR SOLAR CONCENTRATION MEANS |
| US2010269430 A1 20101028 | US20100832281 20100708; US20070759172 20070606 | E04D13/18; F24J2/52 | | ADJUSTABLE MOUNTING ASSEMBLY FOR STANDING SEAM PANELS |
| US2010269817 A1 20101028 | US20090430869 20090427 | F24J2/08 | | Concentrating Solar Energy System |

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|-----------------------------|--|---|----------------------------------|---|
| US2010270235 A1 20101028 | US20100767265 20100426; US20090173023P 20090427 | F24J2/08; F24J2/04; G02B5/00; G02B6/00 | JPS IND INC [US] | BOUYANT WATER HEATING DEVICE |
| US2010275901 A1 20101104 | US20090434791 20090504 | F24J2/46 | | Tracking Device With Weathervaning Wind Stowage Mode of Operation |
| US2010275902 A1 20101104 | US20090586943 20090930; US20090215366P 20090504 | F24J2/38; F24J2/00; F24J2/04; H01L31/00; H01L31/052 | | Photovoltaic and thermal energy system |
| US2010275903 A1 20101104 | US20080007152 20080107 | F24J2/38 | ATOMIC ENERGY COUNCIL [TW] | Solar tracker |
| US2010275904 A1 20101104 | US20100771788 20100430; US20090174278P 20090430 | F28F1/40; F24J2/04 | SUNPOINT TECHNOLOGIES INC [US] | THERMAL-MECHANICAL POSITIONING FOR RADIATION TRACKING |
| US2010282240 A1 20101111 | US20100774714 20100505; US20090175462P 20090505 | H01L31/058 | | MULTI-MODE, ECO-FRIENDLY SWIMMING POOL HEATER SYSTEM |
| US2010282242 A1 20101111 | US20100841335 20100722; US20080269785 20081112; US20070987132P 20071112 | F24J2/38; F24J2/02; F24J2/10 | BRIGHTSOURCE IND ISRAEL LTD [IL] | SOLAR POWER TOWER SYSTEM OPERATION AND CONTROL |
| US2010282243 A1 20101111 | US20090613853 20091106; US20080112738P 20081108 | F24J2/40; F24J2/38 | TEXAS INSTRUMENTS INC [US] | Solar Tracking |

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|-----------------------------|--|--|--------------------------|---|
| US2010282295 A1 20101111 | US20090453348 20090507 | H01L31/052; F24J2/38; H01L31/042 | | Solar power unit |
| US2010282299 A1 20101111 | US20100801816 20100628; US20050294482 20051206; US20040816933 20040405; US20030475002P 20030603 | H01L31/052; F24J2/08; F24J2/54; G02B3/08; H01L31/042 | RENSSCLAER POLYTECH INST | Concentrating type solar collection and daylighting system within glazed building envelopes |
| US2010282943 A1 20101111 | US20100758399 20100412; US20090176037P 20090506 | F24J2/46 | | SOLAR TRACKING PLATFORM WITH ROTATING TRUSS |
| US2010287933 A1 20101118 | US20100779995 20100514; US20090179189P 20090518 | G01S3/786; F24J2/54 | | THERMAL ENERGY STORAGE APPARATUS |
| US2010288266 A1 20101118 | US20090464854 20090512 | F24J2/38; F24J2/06 | | Solar Heater |
| US2010288267 A1 20101118 | US20090465820 20090514 | F24J2/04; B23P15/26 | | Solar Water Heating System and Components Thereof |
| US2010293874 A1 20101125 | US20100848716 20100802; US20070826607 20070717; US20020116384 20020404; US20010910655 20010720 | F24J2/52; E04D13/18 | UNIRAC INC [US] | SYSTEM FOR MOUNTING A PHOTOVOLTAIC MODULE TO A SURFACE |

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|-----------------------------|--|---|--------------------------------------|--|
| US2010294262 A1 20101125 | US20100838645 20100719; US20080060172 20080331 | F24J2/24; B23P15/26 | SOLFOCUS INC [US] | SOLAR THERMAL COLLECTOR MANIFOLD |
| US2010294264 A1 20101125 | DE200710042387 20070904; WO2008EP07409 20080904 | F24J2/48; B23K26/00 | | ABSORBER FOR A THERMAL SOLAR COLLECTOR AND METHOD FOR THE PRODUCTION OF SUCH AN ABSORBER |
| US2010294266 A1 20101125 | US20090471074 20090522 | F24J2/10 | | CONCENTRATED SOLAR THERMAL ENERGY COLLECTION DEVICE |
| US2010294331 A1 20101125 | US20100701115 20100205 | F24J2/23 | | PHOTOVOLTAIC ELECTRICAL ENERGY GENERATING SYSTEM |
| US2010294365 A1 20101125 | US20100849075 20100803; US20060497755 20060802 | H01L31/04; F24J2/10 | | Method and Apparatus for Arranging a Solar Cell and Reflector |
| US2010295306 A1 20101125 | US20090470087 20090521 | H02K7/18; F01D15/10; F03G6/06; F24J2/34; F24J2/38 | ADVANCED SOLAR POWER ISRAEL LTD [IL] | SYSTEM FOR CONVERTING SOLAR RADIATION INTO ELECTRICITY |
| US2010300429 A1 20101202 | US20100787488 20100526; US20090181065P 20090526 | F24J2/07; F24J2/50 | YOUNG & FRANKLIN INC [US] | ACTUATOR-BASED DRIVE SYSTEM FOR SOLAR COLLECTOR |
| US2010300430 A1 20101202 | CN20071076594 20070829; WO2008CN01539 20080828 | E04D13/18; F24F7/00; F24J2/00; F24J3/08 | | KIND OF ACTIVE THERMOREGULATION SYSTEM WITHOUT MOTIVITY AND THE METHOD THEREOF |

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|-----------------------------|--|--|---|--|
| US2010300432 A1 20101202 | US20100830094 20100702; US20070793041 20070615; WO2005IB03838 20051216; US20040636652P 20041217 | F24J2/10 | SUNDAY SOLAR TECHNOLOGIES PTY LTD [AU] | ELECTROMAGNETIC RADIATION COLLECTOR |
| US2010300645 A1 20101202 | US20090474203 20090528 | F25B29/00; F24F7/007; F24F11/04; F24H4/02; F24J2/00; F24J2/04 | | BUILDING ENERGY SYSTEM |
| US2010303692 A1 20101202 | US20100795947 20100608; US20090248282P 20091002; US20090185492P 20090609 | B01J19/00; F24J2/02 | SUNDROP FUELS INC [US] | SYSTEMS AND METHODS FOR AN INDIRECT RADIATION DRIVEN GASIFIER REACTOR & RECEIVER CONFIGURATION |
| US2010307153 A1 20101209 | US20100834466 20100712; WO2009IB00223 20090206; US20080027248P 20080208 | F03G6/06; F24J2/00; F24J2/38 | NOLARIS SA [CH] | Steam Storage System For Artificial Solar Island |
| US2010307480 A1 20101209 | ZA20060006284 20060728; ZA20060008651 20061017; WO2007IB52982 20070727 | E04D13/18; F24J2/04; F24J2/18 | | NON-TRACKING SOLAR COLLECTORS |

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|-----------------------------|---|------------------------------------|---------------------------------|---|
| US2010307481 A1 20101209 | US20100793562 20100603; US20090184646P 20090605 | F24J2/24; B21D53/06 | FORMULA PLASTICS INC [US] | SOLAR WATER HEATER |
| US2010307482 A1 20101209 | SE20080000177 20080125; WO2009SE00027 20090125 | F24J2/24 | | ENERGY SUPPLYING DEVICE |
| US2010313874 A1 20101216 | GB20070024956 20071221; WO2008GB03974 20081201 | F24J2/30; F24J2/00; F24J2/04 | | Energy Recovery System |
| US2010313876 A1 20101216 | IT2008MI01245 20080709; WO2009EP04937 20090708 | F24J2/24; B23P15/26 | TVP SOLAR S A [CH] | VACUUM SOLAR THERMAL PANEL WITH A VACUUM TIGHT GLASS-METAL SEALING |
| US2010313878 A1 20101216 | US20100801287 20100601; US20070797226 20070501; US20050254023 20051020; US20030729145 20031204; US20020156814 20020530 | F24J2/02; F24J2/10 | | Systems and methods for harnessing resources |
| US2010313879 A1 20101216 | CN20091303281 20090616 | F24J2/05; F24J2/14; F24J2/24 | HON HAI PREC IND CO LTD [TW] | SOLAR ENERGY COLLECTOR AND SOLAR ENERGY MODULE HAVING SAME |
| US2010313880 A1 20101216 | US20100856573 20100813; US20070983971 20071113 | F24J2/10; F24J2/00 | | Solar Concentrator |

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|-----------------------------|---|-------------------------------------|---------------------------------|--|
| US2010319678 A1 20101223 | JP20080041941 20080222; WO2008JP73869 20081227 | F24J2/46; F24J2/38 | | HYBRID SOLAR HEAT POWER GENERATION DEVICE |
| US2010319679 A1 20101223 | CN20091303403 20090618 | F24J2/38; G01K3/14 | HON HAI PREC IND CO LTD [TW] | HEAT-DISTRIBUTION SENSOR AND SOLAR TRACKER HAVING SAME |
| US2010319680 A1 20101223 | US20090488852 20090622 | F24J2/38; B23P15/26; F24J2/30 | | Concentrating Solar Energy System for Multiple Uses |
| US2010319681 A1 20101223 | US20100782836 20100519; US20090219754P 20090623 | F24J2/12 | | SOLAR WATER HEATER AND METHOD |
| US2010319682 A1 20101223 | DE200610009412 20060223; WO2007EP01525 20070222 | F24J2/02; F24J2/12 | ZSW [DE] | Solar Module System of the Parabolic Concentrator Type |
| US2010319683 A1 20101223 | US20090488492 20090619 | F24J2/46; B23P11/00 | SOLFOCUS INC [US] | Molded Securing Device for an Optical Element |
| US2010319684 A1 20101223 | US20100788048 20100526; US20090181235P 20090526; US20090249151P 20091006 | F24J2/38 | COGENRA SOLAR INC [US] | Concentrating Solar Photovoltaic-Thermal System |

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|-----------------------------|--|------------------------------------|---------------------------------|---|
| US2010319774 A1 20101223 | US20080665711 20080618; US20070944763P 20070618; US20070957615P 20070823; US20070970439P 20070906; WO2008US67254 20080618 | H01L31/04; F24J2/40 | | SOLAR CONCENTRATOR WITH SIMPLIFIED TRACKING |
| US2010326424 A1 20101230 | US20060543659 20061004; US20040835665 20040430 | F24J2/46 | UNIV CALIFORNIA [US] | Residential solar thermal power plant |
| US2010326425 A1 20101230 | US20090456818 20090624 | F24J2/12; F24J2/38; F24J2/52 | | Dish reflector concentrator structure |
| US2010326426 A1 20101230 | ES20090001490 20090625 | F24J2/12; F24J2/38; F24J2/52 | MECANIZADOS SOLARES S L [ES] | SOLAR TRACKER WITH PARABOLIC CONCENTRATOR |
| US2010326427 A1 20101230 | US20100823138 20100625; US20090269462P 20090626 | F24J2/40; F24J2/38 | | 1-axis and 2-axis solar trackers |
| US2010326428 A1 20101230 | AT20090000979 20090625 | F24J2/42; F24J2/00; F24J2/04 | VKR HOLDING AS [DK] | METHOD FOR HEATING FRESH WATER FOR DOMESTIC OR INDUSTRIAL USE |
| US2010326429 A1 20101230 | US20060437928 20060519 | F24J2/46; B23P17/00 | | Hermetically sealed cylindrical solar cells |
| US2010330511 A1 20101230 | US20090492037 20090625 | F23L15/00; F24J2/30 | | METHOD AND SYSTEM OF PREHEATING |
| US7793652 B1 20100914 | US20080074021 20080301 | F24J2/42 | | Solar operated water heater |

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|-----------------------------|--|--|--|---|
| US7799987 B1 20100921 | US20070881857 20070730 | H02N6/00; F24J2/38; H01L31/00 | | Solar tracker |
| USRE41693E E1 20100914 | US20060565506 20061130; US20010806540 20010330; US19980102597P 19981001 | G02B6/26; F24J2/00; G11C13/04; H01R33/945 | UNIV ARIZONA [US] | Magnetic switching of charge separation lifetimes in artificial photosynthetic reaction centers |
| WO2010072056 A1 20100701 | CN20081243225 20081226 | F24J2/05; F24J2/20 | GUO JIANGUO [CN]; MAO XINGYUAN [CN] | VACUUM HEAT COLLECTING PLATE AND VACUUM HEAT COLLECTING DEVICE |
| WO2010072079 A1 20100701 | CN20082129803U 20081224 | F24J2/02; A47G19/22 | HYOND SOLAR TECHNOLOGY LTD [CN]; SHI YANG [CN] | SOLAR HEATER |
| WO2010072860 A1 20100701 | ES20080003676 20081223 | F24J2/05; F24J2/46 | MIRANDA LEGIDO IVAN [ES]; ARAMBURU DIAZ JULEN [ES] | SOLAR TRACKER FOR FLAT OR SLOPING SURFACES |
| WO2010072877 A1 20100701 | ES20080003664 20081223 | F24J2/54 | MENDEZ DE LA CUESTA RAFAEL MARIA [ES] | CLEANING DEVICE FOR PHOTOVOLTAIC PANELS AND THERMAL SOLAR PANELS |
| WO2010073022 A2 20100701 | GB20080023555 20081224 | F24J2/06; F24J2/08; F24J2/24; F24J2/26 | HOWARD BRIAN [CY] | SOLAR FURNACE |
| WO2010074141 A1 20100701 | JP20080327647 20081224 | F24J2/00; F24J2/46 | MITAKA KOKI KK [JP]; NAKAMURA KATSUSHIGE [JP] | SOLAR RAY HEAT CONVERSION DEVICE |
| WO2010074715 A1 20100701 | US20080122619P 20081215 | F24J2/24 | SORENSEN JENS OLE | HEATED-AIR CONDUIT FOR ENERGY CONVERSION SYSTEMS AND METHODS |
| WO2010075674 A1 20100708 | CN20091076012 20090104; CN20091077223 20090120 | F24J2/46; G01F23/16 | BEIJING POWERTECH CO LTD [CN]; LIU YANG [CN] | SOLAR ENERGY GATHERING DEVICE AND CONSTRUCTION COMPONENT USING IT |

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|-----------------------------|--|--------------------------------------|---|--|
| WO2010075675 A1 20100708 | CN20081247422 20081231 | F24J2/05; F24J2/10; F24J2/38 | BEIJING POWERTECH CO LTD [CN]; LIU YANG [CN] | SOLAR HEAT-ABSORBING PIPE AND MANUFACTURE METHOD THEREOF |
| WO2010076350 A1 20100708 | ES20080003767 20081231 | F24J2/46 | UNIV MADRID POLITECNICA [ES]; MARTINEZ-VAL PENALOSA JOSE MARIA [ES] | THERMAL SOLAR ENERGY COLLECTOR |
| WO2010076352 A1 20100708 | ES20080003770 20081231 | F24J2/38; F24J2/46 | LOPEZ FERRERO ADOLFO LUIS [ES] | VACUUM-TUBE SOLAR COLLECTOR WITH OVERHEATING PROTECTION BY MEANS OF A ROTATING REFLECTOR |
| WO2010076754 A1 20100708 | US20080141022P 20081229 | E04D13/18; F24J2/24 | HELIORIS SOLAR SYSTEMS LTD [IL]; YATIR YOSSEF [IL] | A SOLAR ENERGY COLLECTING SYSTEM |
| WO2010076784 A2 20100708 | US20080141954P 20081231 | H02N6/00; F24J2/38 | ZIV AV ENGINEERING [IL]; SAAR URI [IL]; BRAND DVIR [IL] | SOLAR HEATING APPARATUS |
| WO2010076950 A2 20100708 | KR20080113820 20081117; KR20090046470 20090527 | F24J2/38; G02B6/42 | TM TECH CO LTD [KR]; YOON JOO-SIK [KR]; YOON JOO- PYUNG [KR] | OPTICAL SENSOR HOLDER FOR TRACKING SUNLIGHT |
| WO2010077815 A1 20100708 | US20080335577 20081216 | F24J2/24; F24J2/20 | KUNCZYNSKI YAN [US] | SOLAR WATER HEATER |
| WO2010077993 A2 20100708 | US20080138069P 20081216 | F24J2/38; G01J1/28; H01L31/042 | ARMAGEDDON ENERGY INC [US]; DIMOV DMITRY [US]; ZHABKO LEONID [RU] | METHODS AND SYSTEMS FOR SOLAR SHADE ANALYSIS |
| WO2010078004 A1 20100708 | US20080138287P 20081217; US20090639305 20091216 | F28D20/00; F24J2/34; F28F13/00 | D & D MFG [US]; POLK SR DALE [US]; POLK JR DALE [US] | PARABOLIC SOLAR ENERGY COLLECTOR APPARATUS |

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|-----------------------------|---|--|---|---|
| WO2010078105 A1 20100708 | US20080141338P 20081230; US20090178123P 20090514 | F24J2/24; F24J2/30 | 3M INNOVATIVE PROPERTIES CO [US]; HEBRINK TIMOTHY J [US]; CLEAR SUSANNAH C [US]; GILBERT LAURENCE R [US]; WEBER MICHAEL F [US]; YU TA-HUA [US]; CHEN DANIEL TING-YUAN [US]; SHERMAN AUDREY A [US] | BROADBAND REFLECTORS, CONCENTRATED SOLAR POWER SYSTEMS, AND METHODS OF USING THE SAME |
| WO2010078375 A1 20100708 | US20080317821 20081229 | F24J2/02 | COOLPLANETSOLAR LLC [US]; PALEN EDWARD J [US]; FULTON MICHAEL [US]; BROWN RICHARD [US]; NEWELL MICHAEL [US] | ECONOMIC SOLAR ELECTRICITY PANEL SYSTEM |
| WO2010078668 A2 20100715 | CH20090000020 20090108 | F24F5/00; F24H1/00; F24H4/00; F24H7/00; F24J2/42 | AIRLIGHT ENERGY IP SA [CH]; PEDRETTI ANDREA [CH] | ABSORBER PIPE FOR THE TROUGH COLLECTOR OF A SOLAR POWER PLANT |
| WO2010078757 A1 20100715 | CN20092001949U 20090110; CN20092002338U 20090115 | F24J2/02; A47J27/04 | HYOND SOLAR TECHNOLOGY LTD [CN]; SHI YANG [CN] | SOLAR ENERGY STEAM HEATING METHOD AND SOLAR ENERGY STEAM POT |
| WO2010078902 A2 20100715 | DE200820016704U 20081218 | F24J2/10 | FERANOVA GMBH [DE]; SERKAN KADI [DE] | SOLAR MODULE AND SOLAR PLANT |

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|-----------------------------|----------------------------|-----------------------------|---|--|
| WO2010079242 A1 20100715 | ES20090000023U 20090109 | F24J2/46; B08B3/02 | SOLAR BRIGHT S L [ES]; GONZALEZ RODRIGUEZ ANTONIO [ES]; RONCERO SANCHEZ-ELIPE PEDRO LUIS [ES]; MORALES HERRERA RAFAEL [ES]; CORTAZAR PEREZ OSVALDO DANIEL [ES]; CASTILLO GARCIA FERNANDO JOSE [ES]; HUNGRIA DIAZ DEL CASTILLO PEDRO ANTONIO [ES]; PARRENO TORRE | METHOD FOR CLEANING SOLAR PANELS AND VEHICLE FOR CARRYING OUT SAID METHOD |
| WO2010079249 A1 20100715 | ES200900000068 20090112 | F24J2/24; F26B23/00 | UNIV MADRID POLITECNICA [ES]; ADELL ARGILES JOSEP MARIA [ES]; VEGA SANCHEZ SERGIO [ES]; BEDOYA FRUTOS CESAR [ES]; GARCIA SANTOS ALFONSO [ES]; NEILA GONZALEZ JAVIER [ES]; KLAINSEK ZIZMOND JUAN CARLOS [ES] | SELF-ORIENTING TILTING SOLAR ROOF |

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|-----------------------------|----------------------------|-------------------------------------|---|--|
| WO2010079250 A1 20100715 | ES20090000067 20090112 | F24J2/54 | UNIV MADRID POLITECNICA [ES]; ADELL ARGILES JOSEP MARIA [ES]; VEGA SANCHEZ SERGIO [ES]; BEDOYA FRUTOS CESAR [ES]; GARCIA SANTOS ALFONSO [ES]; NEILA GONZALEZ JAVIER [ES]; KLAINSEK ZIZMOND JUAN CARLOS [ES] | SYSTEM COMPRISING MOBILE SOLAR PANELS FOR CONSTRUCTION |
| WO2010080059 A1 20100715 | SE20090050004 20090108 | F24J2/42 | AIRGLASS AB [SE]; GULLBERG LEIF [SE]; WESTLUND CHRISTER [SE] | SILICA AEROGEL BODY AS ISOLATION IN A SOLAR COLLECTOR SYSTEM |
| WO2010080060 A1 20100715 | SE20090050003 20090108 | F24J2/51; C01B33/14; C09K5/14 | AIRGLASS AB [SE]; GULLBERG LEIF [SE] | SILICA AEROGEL AS TRANSPARENT PANEL IN ENERGY SAVING WINDOW |
| WO2010080075 A2 20100715 | TR20090000196 20090112 | F24J2/28; F24J2/38 | TARAKCIOGLU ISIK [TR] | TEXTILE BASED AIR HEATER SOLAR COLLECTOR |
| WO2010080549 A1 20100715 | US20080138143P 20081217 | F24J2/10 | HULEN MICHAEL S [US] | IMPROVEMENTS IN EFFICIENCY OF SYSTEMS AND METHODS OF OPERATING ENVIRONMENTAL EQUIPMENT UTILIZING ENERGY OBTAINED FROM MANUFACTURED SURFACE COVERINGS |
| WO2010081130 A2 20100715 | US20090144057P 20090112 | F24J2/38; G01C1/00 | SKYLINE SOLAR INC [US]; JOHNSON ERIC C [US]; BILODEAU JAMES L [US]; WELLS JASON R [US]; NIGHTINGALE JOHN L [US]; FINOT MARC A [US] | SOLAR COLLECTOR WITH END MODIFICATIONS |

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|-----------------------------|---|---|--|---|
| WO2010081184 A2 20100722 | AT20090000076 20090119 | F24J2/40 | INNOVA PATENT GMBH [AT]; ERHART PHILIPP [AT]; CZALOUN HANS GUENTER [IT] | SYSTEM FOR GENERATING ELECTRIC ENERGY BY USING PHOTOVOLTAIC ELEMENTS |
| WO2010081893 A2 20100722 | IT2009MC00002U 20090119 | F24J2/10; F24J2/46; F24J2/48; F24J2/52 | GEN SERVICE S R L [IT]; NEXUS S R L [IT]; MARACCI MARCO [IT]; GREGANTI SIMONE [IT] | UNIVERSAL FIXING BRACKET FOR PHOTOVOLTAIC PANELS. |
| WO2010081970 A2 20100722 | FR20090000171 20090115; FR20090000173 20090115 | F24J2/52 | NOGLOTTE THIERRY [FR] | SOLAR PANEL DEVICE |
| WO2010082181 A1 20100722 | US20090145557P 20090118 | F24J2/46; F24J2/24; F24J2/30 | TIGI LTD [IL]; Klier SHIMON [IL]; ADEL MICHAEL [IL] | SOLAR THERMAL COLLECTING SYSTEM |
| WO2010083029 A2 20100722 | US20090144256P 20090113 | F24J2/10; F24J2/52 | LRM IND INTERNATIONAL INC [US]; POLK DALE E [US] | HEAT EXCHANGE PANEL |
| WO2010083120 A2 20100722 | US20090355339 20090116; US20090407555 20090319; US20090407602 20090319; US20090436226 20090506 | F24J2/38; B23P15/26; F24J2/00; F24J2/08 | GENIE LENS TECHNOLOGIES LLC [US]; RAYMOND MARK A [US]; LANGE HOWARD G [US]; WEISS SETH [US] | PHOTOVOLTAIC (PV) ENHANCEMENT FILMS FOR ENHANCING OPTICAL PATH LENGTHS AND METHODS OF MANUFACTURING PV ENHANCEMENT FILMS |
| WO2010083285 A1 20100722 | US20090533673 20090731; US20090145080P 20090115 | F24J2/38; B23P15/26; B23P19/00; F24J2/18 | SUNLIGHT POWER INC [US]; BALDWIN DAVID E [US]; SPERO ALAN J [US] | GROUND-BASED, INTEGRATED VOLUMETRIC RECEIVER-STORAGE SYSTEM FOR CONCENTRATED SOLAR POWER |
| WO2010083292 A1 20100722 | US20090144703P 20090114 | F24J2/34 | SKYFUEL INC [US]; BROST RANDOLPH C [US] | APPARATUS AND METHOD FOR BUILDING LINEAR SOLAR COLLECTORS DIRECTLY FROM ROLLS OF REFLECTIVE LAMINATE MATERIAL |

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|-----------------------------|-----------------------------|---|---|--|
| WO2010083662 A1 20100729 | CN20091028418 20090120 | F25B17/00; F24J2/00 | GUO JIANGUO [CN]; MAO XINGYUAN [CN] | INTEGRATED FLAT-PLATE-TYPE ADSORPTION REFRIGERATING/HEATING DEVICE |
| WO2010083819 A2 20100729 | DE200920000916U 20090122 | F16M11/18; F16M13/00; F24J2/54; H01L31/04 | MOUNTING SYSTEMS GMBH [DE]; SCHNITZER SANDY [DE] | MOUNTING DEVICE FOR FRAMED SOLAR MODULE |
| WO2010084145 A1 20100729 | FR20090050452 20090126 | F24J2/46; F24J2/42; H01L31/042 | COMMISSARIAT ENERGIE ATOMIQUE [FR]; GRUSS JEAN-ANTOINE [FR]; JAUSSAUD CLAUDE [FR]; PONCELET OLIVIER [FR] | PHOTOVOLTAIC CONVERTER WITH INCREASED LIFE SPAN |
| WO2010084161 A1 20100729 | DE200910006784 20090126 | H01L31/055; C09K11/08; F24J2/46; H01L31/058; H02N6/00 | UNIV ILMENAU TECH [DE]; THESS ANDRE [DE]; BUEHL JUERGEN [DE]; SCHULZE DIETMAR [DE]; NILIUS ANDREAS [DE] | HIGH-TEMPERATURE LATENT HEAT ACCUMULATOR |
| WO2010084168 A1 20100729 | AT20090000129 20090126 | F16K31/06; F16K7/12; F16K11/04; F16K31/08; F24J2/46 | 4ELEMENTS INVENT LTD [MT]; KERSCHGENS DANIEL [ES]; SUSTR NORBERT [AT]; WALDSTEIN-WARTENBERG KARL ALBRECHT [AT]; GABLER-FRITZ FRANZ [AT] | SOLAR THERMAL DEVICE FOR PRODUCING FRESH WATER |
| WO2010084224 A2 20100729 | ES20090000206 20090126 | F24J2/48 | UNIV SEVILLA [ES]; QUERO REBOUL JOSE MANUEL [ES] | METHOD FOR POSITIONING A SURFACE IN RELATION TO A LIGHT SOURCE USING SENSORS |

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|-----------------------------|---|---|--|---|
| WO2010084290 A1 20100729 | FR20090050422 20090123 | C02F1/14; B01D1/00; C02F1/18; F24J2/00 | SAINT GOBAIN [FR]; SCHIAVONI MICHELE [FR]; NEANDER MARCUS [DE]; ROEMGENS PASCAL [DE] | SUBSTRATE EN VERRE TRANSPARENT GLASS SUBSTRATE AND METHOD FOR PRODUCING SUCH A SUBSTRATE |
| WO2010085574 A1 20100729 | US20090146241P 20090121 | F24J2/32; F24J2/05 | AUSRA INC [US]; MILLS DAVID R [US]; CHENG WEILI [US] | THERMAL ENERGY STORAGE FOR SUPERHEAT APPLICATIONS |
| WO2010086309 A1 20100805 | IT2009UD00015 20090127 | F24J2/08 | GLOBAL PROCUREMENT SRL [IT]; BERTOSSI BRUNO [IT]; BARNABA GIANNI ANDREA [IT] | TRACKING PHOTOVOLTAIC USING REFLECTOR CONCENTRATION AND REFLECTOR MOVEMENT METHOD |
| WO2010086430 A2 20100805 | DE200910006953 20090130 | F24J2/52 | SAINT GOBAIN INDUSTRIEKERAMIK [DE]; HACK UDO [DE] | METHOD FOR THE PRODUCTION OF A CERAMIC ABSORBER MEMBER FOR SOLAR RADIATION, AND ABSORBER MEMBER |
| WO2010086443 A2 20100805 | DE200910006952 20090130 | F24J2/46 | SAINT GOBAIN INDUSTRIEKERAMIK [DE]; HACK UDO [DE] | SOLAR ABSORBER MODULE AND SOLAR ABSORBER ARRANGEMENT |
| WO2010088632 A2 20100805 | US20090149292P 20090202; US20090176041P 20090506 | F24J2/22; F24J2/00 | GLASSPOINT SOLAR INC [US]; MACGREGOR RODERICK [US]; VON BEHRENS PETER EMERY [US] | CONCENTRATING SOLAR POWER WITH GLASSHOUSES |
| WO2010089435 A1 20100812 | ES20090000177U 20090204 | F24J2/46 | PEREZ PUEYO HECTOR ALBERTO [ES] | SOLAR FOLLOWER |

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|-----------------------------|--|---|---|--|
| WO2010089469 A1 20100812 | PT20090104408 20090206; FR20090001288 20090319 | F24J2/04; F24J2/52; H01L31/042; H01L31/048 | SUN R [FR]; MODELING SOLUTIONS LDA [PT]; NOGIER ANTOINE [FR]; MOYNAT CHRISTOPHE [FR]; RODRIGUES JOAQUIM JORGE LEAL [PT]; DA SILVA MATOS SERGIO FRANCISCO [PT] | INSTALLATION PART FOR PHOTOVOLTAIC MODULES, INSTALLATION DEVICE, AND BUILDING STRUCTURE COMPRISING SAME |
| WO2010090456 A2 20100812 | KR20090008741 20090204 | G02B5/08; F24J2/10; G02B1/04 | CHAE SOO JOH [KR] | HEAT ENGINE USING SOLAR ENERGY |
| WO2010091127 A2 20100812 | US20090149554P 20090203 | G06F17/50; F24J2/00 | CUBE ENERGY INC E [US]; XIANG XIAODONG [CN]; ZHANG RONG [US] | SYSTEMS AND METHODS OF SOLAR THERMAL CONCENTRATION FOR 2-DIMENSIONAL FOCUSING CONCENTRATORS INCLUDING FEATURES OF SEQUENTIAL HEATING, THERMAL LOSS REDUCTION, AND/OR ADJUSTMENT OF OPERATION OR OPERATING PARAMETERS |
| WO2010092360 A1 20100819 | IN2009DE00289 20090213 | F24J2/52; E04D13/18 | ALPHA FRY LTD [GB]; PURAKKAT SAVITHA [IN]; JASSAL MUKESH [GB] | HEAT TRANSFER FLUID |
| WO2010092564 A1 20100819 | US20090152241P 20090212; US20090153656P 20090219; US20090164474P 20090330 | F24J2/07; F24J2/48 | HELIOFOCUS LTD [IL]; CAFRI HAGAY [IL] | A METHOD FOR MANUFACTURING A SOLAR RADIATION ABSORBER |

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|-----------------------------|--|-------------------------------------|---|---|
| WO2010092575 A1 20100819 | US20090152238P 20090212; US20090219779P 20090624; US20090219780P 20090624 | F24J2/07; F22B1/00 | YEDA RES & DEV [IL]; CAFRI HAGAY [IL]; GOLDENSTEIN ZOHAR [IL]; KARNI JACOB [IL] | SOLAR RECEIVER SYSTEM |
| WO2010093099 A1 20100819 | KR20090012160 20090213 | F24J2/38 | G & R INC [KR]; RYU JE MUN [KR]; PARK JUN O [KR] | SOLAR TRACKING DEVICE |
| WO2010093339 A2 20100819 | TR20090001114 20090216 | F03G6/00; F02G1/043; F24J2/02 | TARAKCIOGLU ISIK [TR] | TEXTILE BASED SOLAR COLLECTOR |
| WO2010093372 A2 20100819 | US20090371260 20090213 | F24J2/10 | MATALON ENERGY INC [US]; MATALON DAVID [US] | PARABOLIC SOLAR COLLECTOR |
| WO2010093876 A2 20100819 | US20090207629P 20090213 | F24J2/38 | ESOLAR INC [US]; BLAIR JASON [US]; BRAWNER STEPHEN [US]; COLEMAN BRIAN [US]; GREANEY ALAN [US]; GREGORY CHRISTIAN [US]; GROSSMAN MARC [US]; LUCONI GREGG [US]; MOURSUND CARTER [US]; PILEGAARD ULRIK [US]; SCHELL STEVEN [US]; TYNER CRAIG [US] | HELIOSTAT FIELD CLEANING SYSTEM |
| WO2010094271 A2 20100826 | DE200920002208U 20090217 | F24J2/52; F24J2/14 | SCHLETTER GMBH [DE]; BUB FABIAN [DE] | INCLINED ARRANGEMENT OF PV MODULES ON FLAT ROOFS |

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|-----------------------------|--|---|---|---|
| WO2010094354 A2 20100826 | DE200910009760 20090220; DE200910012203 20090311 | F24J2/52 | FM KUNSTSTOFFTECHNIK GMBH [DE]; MEYER ULRICH [DE] | HOLDER FOR REGENERATIVE ENERGY MODULE SYSTEMS |
| WO2010096270 A2 20100826 | US20090154347P 20090220 | F24J2/38; F24J2/00; G05B19/02 | SUNPOWER CORP [US] | AUTOMATED SOLAR COLLECTOR INSTALLATION DESIGN INCLUDING ABILITY TO DEFINE HETEROGENEOUS DESIGN PREFERENCES |
| WO2010096507 A2 20100826 | US20090207614P 20090217 | F24J2/38; F24J2/00 | SOLAR STORAGE COMPANY [US]; HENKEL-WALLACE DAVID VINAYAK [US]; BISSET STEPHEN JAMES [US] | POSITIONING SYSTEM FOR SOLAR COLLECTION |
| WO2010096721 A2 20100826 | US20090154256P 20090220; US20090160148P 20090313; US20100708502 20100218 | F24J2/24; F24J2/04; F24J2/38; F24J2/46 | OMNIPV INC [US]; KENNEY JOHN [US]; WANG JIAN JIM [US]; PFENNINGER WILLIAM MATTHEW [US]; VOCKIC NEMANJA [US]; MIDGLEY JOHN [US] | SOLAR MODULES INCLUDING SPECTRAL CONCENTRATORS AND RELATED MANUFACTURING METHODS |
| WO2010096833 A2 20100826 | US20090154587P 20090223; US20090285801P 20091211; US20100301950P 20100205; US20090233354P 20090812; US20090243400P 20090917 | F24J2/46 | TENKSOLAR INC [US]; MEYER DALLAS W [US]; BERG LOWELL J [US]; MURNAN THOMAS L [US]; DODD ORVILLE D [US] | HIGHLY EFFICIENT RENEWABLE ENERGY SYSTEM |

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|-----------------------------|---|-----------------------------|--|---|
| WO2010096863 A1 20100902 | NZ20090575152 20090225; NZ20090575646 20090319; NZ20090581000 20091106; NZ20090581579 20091202; NZ20090582104 20091217; NZ20090582285 20091223; NZ20100583329 20100216; NZ20100583469 20100222; NZ20090578481 20090717 | F24J2/52 | RENEWABLE ENERGY SYSTEMS LTD; DRYSDALE KENNETH WILLIAM PATTERSON [AU] | A HEAT PUMP, A COMBINED HEATING AND COOLING SYSTEM, A POWER GENERATION SYSTEM AND A SOLAR COLLECTOR |
| WO2010097406 A2 20100902 | US20090155700P 20090226 | F24J2/34 | DAUVISTER ALEXANDRE [BE]; DAUVISTER STEPHANE [BE] | PHOTOVOLTAIC PANEL SUPPORTING DEVICE |
| WO2010097486 A1 20100902 | WO2009ES70050 20090227 | F16H1/16; F24J2/54 | REDUCTORES CUNAT S A [ES]; CUNAT MARTINEZ VICENTE [ES] | WORM WHEEL REDUCER FOR MODULAR PARTS FOR SOLAR TRACKERS |
| WO2010098611 A2 20100902 | KR20090016710 20090227; KR20090016711 20090227 | F24J2/20 | HLB CO LTD [KR]; UNIV KYUNG HEE UNIV IND COOP [KR]; SIN JONG GU [KR]; KIM CHOUNG TAE [KR] | SOLAR LIGHTING SYSTEM AND DRIVING METHOD THEREOF |

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|-----------------------------|---|---|---|---|
| WO2010098612 A2 20100902 | KR20090016709 20090227 | F21V11/00; F24J2/38 | HLB CO LTD [KR]; UNIV KYUNG HEE UNIV IND COOP [KR]; SIN JONG GU [KR]; KIM CHOUNG TAE [KR] | SOLAR TRACKING DEVICE |
| WO2010099509 A2 20100902 | US20090156488P 20090228 | F24F5/00; A61L9/00; A61L9/04; F24F7/00; F24J2/00; F24J3/08 | MITTELMARK MARTIN [US]; ST JOHN PAUL J [US]; NORDBERG HANK T [US] | SYSTEM AND METHOD FOR USING RECYCLABLES FOR THERMAL STORAGE |
| WO2010099516 A1 20100902 | US20090208913P 20090228; US20090209681P 20090310 | F24J2/34 | WELLE RICHARD [US] | SEGMENTED FRESNEL SOLAR CONCENTRATOR |
| WO2010099596 A1 20100910 | US20090157714P 20090305 | F24J2/24 | GUILLEMETTE PASCAL [CA] | METHOD AND SYSTEM FOR OPTIMIZING AND PROTECTING SOLAR PANELS |
| WO2010099620 A1 20100910 | US20090158077P 20090306; US20090187740P 20090617 | F24J2/54; H01L31/042 | UNIV MCMASTER [CA]; KITAI ADRIAN [CA]; ZHANG WEI [CA] | SOLAR COLLECTION AND LIGHT REGULATION APPARATUS |
| WO2010100293 A1 20100910 | ES20090000581 20090302 | F24J2/46 | ABENGOA SOLAR NEW TECHNOLOGIES [ES]; NUNEZ BOOTELLO JUAN PABLO [ES]; OSUNA GONZALEZ-AGUILAR RAFAEL [ES] | FRESNEL-TYPE SOLAR-CONCENTRATION PLANT WITH AN OPTIMIZED SECONDARY RECONCENTRATOR |
| WO2010100667 A2 20100910 | IT2009MI00300 20090302 | H02N6/00; F24J2/24; F24J2/48 | LEONE DEMETRIO [IT]; LEONE PATRIC MARC PHILIPP [CH]; LEONE SHERRY SUSANNE [CH] | HEAT EXCHANGE DEVICE IN PARTICULAR FOR SOLAR COLLECTOR |

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|-----------------------------|---|---|--|---|
| WO2010101239 A1 20100910 | JP20090053818 20090306; JP20090252587 20091104 | C09C1/24; C09C1/34; C09C3/08; F24J2/48; H01L31/0216 | UNIV THE RYUKYUS [JP]; OSAKA GAS CO LTD [JP]; KONDO YOSHIKAZU [JP]; UENO MASAMI [JP]; KAWAMITSU YOSHINOBU [JP]; TSUTSUMI JUNICHIRO [JP] | SOLAR LIGHT (HEAT) ABSORBING MATERIAL, AND HEAT ABSORBER/STORAGE MATERIAL AND SOLAR LIGHT (HEAT) ABSORBER/CONTROL MATERIAL EACH COMPRISING THE SOLAR LIGHT (HEAT) ABSORBING MATERIAL |
| WO2010101468 A1 20100910 | WO2009NO00072 20090302 | F24J2/54 | GUDESEN HANS GUDE [CH]; NORDAL PER-ERIK [NO] | MULTI-ELEMENT DEVICE |
| WO2010101774 A2 20100910 | CN20091025618 20090303 | H01L31/042; F24J2/38; F24J2/40 | SMITH CORP A O [US]; AO KAIPING [CN] | SOLAR WATER HEATER WITH THE FUNCTIONS OF REFILLING AND DISSIPATION |
| WO2010102152 A2 20100910 | US20090158265P 20090306; US20100717889 20100304 | F24H1/18; F24H1/20; F24J2/42 | SOLAR STANDISH [US] | ROTARY SOLAR CONCENTRATOR FOR PHOTOVOLTAIC MODULES |
| WO2010102256 A2 20100910 | US20090157793P 20090305 | C09K5/08; F24J2/42; F25B27/00; F28D20/00 | VINOKUROV GEDALIA [US] | TRACKING SYSTEM FOR SOLAR PANELS |
| WO2010102619 A2 20100916 | DE200910012505 20090312; DE200910045033 20090925 | E06B9/40; E06B9/26; E06B9/42; F24J2/46 | GEORG SIMON OHM HOCHSCHULE FUE [DE]; POISEL HANS [DE]; SCHUETZ SEBASTIAN [DE]; KILLERMANN MICHAEL [DE]; KIST ALEXANDER [DE]; HOFBECK KLAUS [DE]; SCHILLING HARRY [DE] | TRACKING UNIT FOR A SOLAR COLLECTOR |

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|-----------------------------|---|------------------------------------|--|---|
| WO2010102772 A2 20100916 | DE200910013623 20090310 | F24J2/46 | GRIMM FRIEDRICH [DE] | SOLAR COLLECTOR HAVING A LINEARLY FOCUSING REFLECTOR SURFACE |
| WO2010102874 A2 20100916 | IT2009PN00019 20090310 | F24J2/38 | NEWCOMEN S R L [IT]; MAZZA PAOLO [IT]; ZAMPIERI GINO [IT] | INTEGRATED RANKINE-CYCLE MACHINE |
| WO2010103255 A2 20100916 | WO2009GB00625 20090309 | F24J2/34 | OSBORNE DAVID [GB] | SOLAR PANEL FOR WATER HEATING |
| WO2010103496 A1 20100916 | FR20090001207 20090313 | F24J2/36; F24J2/42 | LEROY SOMER MOTEURS [FR]; COUPART ERIC [FR] | SOLAR EQUIPMENT |
| WO2010104368 A1 20100916 | MX20090002764 20090313 | F24J2/34 | CORDERO GOMEZ DEL CAMPO JOSE LUIS ESTEBAN [MX] | FLAT-SHEET SOLAR RADIATION COLLECTORS FOR HEATING WATER |
| WO2010104897 A2 20100916 | US20090276881P 20090917; US20090158572P 20090309 | F24J2/04 | CUBE ENERGY INC E [US]; XIANG XIAODONG [CN]; ZHANG RONG [US] | SYSTEMS AND METHODS OF THERMAL-ELECTRIC POWER GENERATION INCLUDING LATENT HEAT UTILIZATION FEATURES |
| WO2010105111 A1 20100916 | US20090209970P 20090311; US20100722498 20100311 | F24J2/40 | GOSSAMER SPACE FRAMES [US]; REYNOLDS GLENN A [US] | DRIVE MECHANISM FOR A SOLAR CONCENTRATOR ASSEMBLY |
| WO2010105247 A1 20100916 | US20090160108P 20090313 | F24J2/50; F24J2/10 | CALIFORNIA INST OF TECHN [US]; KORNFIELD JULIA A [US]; FLAGAN RICHARD C [US] | SYSTEMS AND METHODS FOR CONCENTRATING SOLAR ENERGY WITHOUT TRACKING THE SUN |
| WO2010106195 A1 20100923 | WO2009ES00149 20090316 | F24J2/46; B08B3/02; B60P3/00 | VOITH TURBO S A [ES] | UNIT FOR CLEANING PARABOLIC-TROUGH COLLECTORS IN THERMO-ELECTRIC SOLAR POWER PLANTS |
| WO2010106844 A1 20100923 | JP20090066237 20090318 | F24J2/24; F03G6/00 | KONICA MINOLTA OPTO INC [JP]; BEKKU HIROSHI [JP] | REFLECTOR FOR SOLAR THERMAL POWER GENERATOR |

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|-----------------------------|--|--|---|---|
| WO2010107921 A1 20100923 | US20090160775P 20090317 | G02B1/10; C03C17/00; C03C17/245; C03C17/36; F24J2/10 | D & D MFG [US] | STATIONARY PARABOLIC SOLAR POWER SYSTEM AND RELATED METHODS FOR COLLECTING SOLAR ENERGY |
| WO2010108141 A2 20100923 | US20090162125P 20090320 | H01L31/0232; F24J2/18; F24J2/38; F24J2/40; H01L31/04 | SKYLINE SOLAR INC [US]; FINOT MARC A [US]; WELLS JASON R [US] | REFLECTIVE SURFACE FOR SOLAR ENERGY COLLECTOR |
| WO2010108428 A1 20100930 | CN20092008592U 20090324 | F24J2/46 | SHI YANG [CN] | STEAM BOX HEATED BY SOLAR COLLECTING TUBES |
| WO2010108969 A1 20100930 | IT2009MC00061 20090324 | F24J2/38 | MARCHETTI FABIO [IT]; VERDOLINI RENZO [IT] | SOLAR CONCENTRATOR |
| WO2010109110 A2 20100930 | FR20090001369 20090324 | F24J2/24; F24J2/05 | ASTRIUM SAS [FR]; GENESTE JEAN-FRANCOIS [FR] | APPARATUS FOR PRODUCING AND DISPENSING HYDROGEN |
| WO2010109508 A2 20100930 | IT2009BS00056 20090324 | F24J2/38 | TURBODEN SRL [IT]; GAIA MARIO [IT] | CONCENTRATING SOLAR PANEL INSTALLATION WITH AZIMUTH ORIENTATION SYSTEM |
| WO2010110544 A2 20100930 | KR20090024408 20090323 | F03G6/06; F24J2/07 | NAM CHANG MIN [KR]; NAM SEUNG HYUN [KR] | SOLAR COLLECTOR |
| WO2010110772 A1 20100930 | WO2009US01866 20090325 | F24J2/08; F01K27/00; F02B43/10; F24J2/04; F24J2/46 | LEE JOHN [US] | SOLAR-BASED POWER GENERATOR |
| WO2010111075 A1 20100930 | US20090164047P 20090327; US20100709045 20100219; US20100709091 20100219 | F24J2/38; F24J2/00; F24J2/24 | PPG IND OHIO INC [US] | SOLAR REFLECTING MIRROR HAVING A PROTECTIVE COATING AND METHOD OF MAKING SAME |

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|-----------------------------|----------------------------|---|---|---|
| WO2010111383 A2 20100930 | US20090162950P 20090324 | F24J2/10; F24J2/14; F24J2/18 | JENKINS ROBERT L [US] | PHOTOVOLTAIC SYSTEMS, METHODS FOR INSTALLING PHOTOVOLTAIC SYSTEMS, AND KITS FOR INSTALLING PHOTOVOLTAIC SYSTEMS |
| WO2010111688 A2 20100930 | US20090163459P 20090326 | F03G6/00; F01K3/00; F01K13/00; F24J2/04 | SOLAR STORAGE COMPANY [US]; MIERISCH ROBERT CHARLES [AU]; BISSET STEPHEN JAMES [US] | INTERMEDIATE PRESSURE STORAGE SYSTEM FOR THERMAL STORAGE |
| WO2010112626 A1 20101007 | WO2009ES70087 20090401 | F24J2/54; F24J2/16; H01L31/042; H01L31/052 | EN ERCAM S A [ES]; SILVESTRE MATA DIONISIO [ES] | SOLAR TRACKER |
| WO2010113091 A1 20101007 | US20090165226P 20090331 | F16J15/06; F24J2/46 | KONINKL PHILIPS ELECTRONICS NV [NL]; ADAMS JOHN ANDRE [US] | OPTICS DEVICE FOR STAGE LIGHTING |
| WO2010113100 A1 20101007 | US20090165102P 20090331 | F24J2/04 | KONINKL PHILIPS ELECTRONICS NV [NL]; ADAMS JOHN ANDRE [US] | LED COLLIMATION OPTICS MODULE AND LUMINAIRE USING SAME |
| WO2010115237 A1 20101014 | AU20090901467 20090406 | F24J2/42; E04H4/14; E04H17/14; F24J2/04; F24J2/46 | WIZARD POWER PTY LTD [AU]; LOVEGROVE KEITH MALCOLM [AU]; BURGESS GREGORY JOHN [AU]; COVENTRY JOSEPH SYDNEY [AU] | SOLAR MIRROR PANELS AND THEIR MANUFACTURE |
| WO2010116007 A1 20101014 | ES20090000956 20090407 | H02N6/00; F24J2/06; H02N11/00 | PASALODOS CABRERO ANTONIO [ES] | SET OF SELF-ADJUSTING SOLAR TRACKERS SUITABLE FOR BEING DIRECTED BY A SINGLE MOTOR |

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|-----------------------------|--|---|--|--|
| WO2010116010 A1 20101014 | ES20090000937 20090406 | F24J2/30; F24H6/00 | ABENGOA SOLAR NEW TECHNOLOGIES [ES]; NAVIO GILABERTE RAUL [ES]; SERRANO GALLAR LUCIA [ES]; OSUNA GONZALES-AGUILAR RAFAEL [ES]; LLORENTE FOLCH PAULA [ES]; FERNANDEZ QUERO VALERIO [ES] | SOLAR RECEIVER WITH NATURAL CIRCULATION FOR GENERATING SATURATED STEAM |
| WO2010116162 A2 20101014 | GB20090006173 20090409; GB20090010539 20090618 | F24J2/46 | CARDING SPEC CANADA [GB]; VARGA JOHN [GB] | SOLAR ENERGY TRANSFER AND STORAGE APPARATUS |
| WO2010117165 A2 20101014 | KR20090030391 20090408; KR20090084385 20090908 | F24J2/40; F24J2/46 | WOO DO YOUNG [KR] | FLOAT-TYPE SOLAR ENERGY GENERATING APPARATUS |
| WO2010118038 A1 20101014 | US20090167115P 20090406 | F24J2/32; F24J2/48 | STERN DONALD S [US] | SOLAR PANEL WITH LENS AND REFLECTOR |
| WO2010118176 A1 20101014 | US20100755355 20100406; US20090167386P 20090407 | F24J2/04; F24J2/46; F24J2/51; F24J2/52 | LOCKHEED CORP [US]; SHAH TUSHAR K [US]; MALECKI HARRY C [US]; ADCOCK DANIEL J [US]; HEICK KRISTOPHER [US] | SOLAR RECEIVER UTILIZING CARBON NANOTUBE INFUSED COATINGS |

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|-----------------------------|---|--|---|--|
| WO2010118236 A1 20101014 | US20090212212P 20090408 | F24J2/38 | AP ALTERNATIVES LLC [US]; VON DEYLEN JOSHUA D [US]; VON DEYLEN DAVID L [US]; RAMEY SHAWN J [US]; SUTTON WILLIAM E [US]; WAISNER JEFFREY L [US] | SOLAR PANEL SUPPORTS AND METHOD |
| WO2010118276 A2 20101014 | US20090217425P 20090529; US20090212390P 20090410 | F24J2/10; F24J2/24 | VICTORY ENERGY OPERATIONS LLC [US]; VISKUP JOHN C JR [US]; LIN BOCHUAN [US] | GENERATION OF STEAM FROM SOLAR ENERGY |
| WO2010118503 A1 20101021 | US20090424393 20090415 | G02B17/00; F24J2/10; G02B27/00; H01L31/052 | NORMAN RICHARD [CA]; DAUPHIN PHILIPPE [CA]; DE ST CROIX FREDERICK [CA] | SYSTEMS FOR COST-EFFECTIVE CONCENTRATION AND UTILIZATION OF SOLAR ENERGY |
| WO2010118885 A1 20101021 | DE200920005823U 20090418; DE200920005824U 20090418 | E04B1/14; E04B2/92; E04C2/24; E04C2/52; F24J2/04 | MUELLEJANS HEINRICH [BE] | SUPPORT SYSTEM FOR PARABOLIC TROUGH COLLECTORS |
| WO2010119945 A1 20101021 | JP20090099980 20090416 | F24J2/54; F24J2/14 | MITAKA KOKI KK [JP]; NAKAMURA KATSUSHIGE [JP] | SOLAR LIGHT COLLECTION SYSTEM |
| WO2010120123 A2 20101021 | KR20090004427U 20090414 | F24J2/26 | LEE CHAN HO [KR] | 2-AXIS SUNLIGHT TRACKING SYSTEM USING PHOTO CONDUCTIVE CELL |
| WO2010120349 A1 20101021 | US20090212854P 20090416 | F24J2/30; F24J2/10; F24J2/32; F24J2/34 | WERNER EXTRUSION SOLUTIONS LLC [US]; WERNER CRAIG ROY [US]; FUNAI JOHN [US] | STRUT, SYSTEM AND METHOD FOR A SOLAR MIRROR FRAME |

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|-----------------------------|---|------------------------------------|---|--|
| WO2010120397 A2 20101021 | US20090416358 20090401 | F24J2/46; F24J2/05; F24J2/24 | SUNPOWER CORP [US]; LENOX CARL J S [US] | PHOTOVOLTAIC ARRAY WITH MINIMALLY PENETRATING ROOFTOP SUPPORT SYSTEM |
| WO2010121830 A2 20101028 | DE200910018782 20090424 | F24J2/54 | SCHMIDT CHRISTOPH [DE] | FASTENING ELEMENT FOR SANDWICH PANELS, AND BUILDING ENVELOPE COMPRISING SAID FASTENING ELEMENT |
| WO2010122009 A2 20101028 | DE200910002507 20090420; DE200910002508 20090420 | F24J2/06 | SUNSAIL ENERGY GMBH & CO KG [DE]; KRAMPE KARL-HEINZ [DE] | SOLAR INSTALLATION |
| WO2010122011 A2 20101028 | DE200910002505 20090420; DE200910002508 20090420 | F24J2/06 | SUNSAIL ENERGY GMBH & CO KG [DE]; KRAMPE KARL-HEINZ [DE] | SOLAR INSTALLATION |
| WO2010122226 A1 20101028 | FI20090005435 20090421 | F24J2/46 | VAHANEN INTERNAT OY [FI]; KETTUNEN ARI-VEIKKO [FI] | METHOD AND ARRANGEMENT FOR MOVING THERMAL ENERGY IN A SHELL STRUCTURE OF A BUILDING |
| WO2010124343 A1 20101104 | AU20090901918 20090501 | F03G6/06; F24J2/38; F24J2/42 | NEP SOLAR PTY LTD [AU]; DREYER JOHAN FREDERICK [AU]; YORSTON JAMES [AU]; BEAUMON MARTYN [GB] | A SOLAR ENERGY COLLECTION SYSTEM |
| WO2010124679 A2 20101104 | DE200920006182U 20090501 | F24J2/46 | SCHLETTER GMBH [DE]; ZAPFE CEDRIK [DE] | SHELTER |
| WO2010125203 A1 20101104 | ES20090000873U 20090429 | F24J2/00; F24J2/36 | ROMERO LAMPON JOSE LUIS [ES] | MOBILE SOLAR UNIT WITH WIND-POWERED ELECTRICITY GENERATOR |
| WO2010125206 A1 20101104 | WO2009ES70125 20090429 | F24J2/54 | EN ERCAM S A [ES]; SILVESTRE MATA DIONISIO [ES]; BONILLA VALLEJO JOSE ANTONIO [ES] | SOLAR FOLLOWER |

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|-----------------------------|---|------------------------------------|---|---|
| WO2010125258 A2 20101104 | FR20090002074 20090429 | E06B9/264 | LOMBARD XAVIER [FR] | SIMPLE DEVICE FOR DISTRIBUTING SOLAR GAIN BETWEEN HEAT AND LIGHT |
| WO2010125539 A1 20101104 | FR20090052938 20090430 | F24J2/52; F16B2/06; F16B7/04 | COURTIREY CONCEPTION [FR]; REY JEAN-CLAUDE [FR] | RADIATING WALL FOR BUILDING AND APPLICATIONS |
| WO2010127615 A1 20101111 | CN20091031297 20090504; CN20091026741 20090505 | F24J2/05 | NANJING SCIENT RES TECHNOLOGY [CN]; ZHANG XIAOLI [CN]; JIN CHAOWU [CN]; CUI DONGHUI [CN] | CONTROL SYSTEM FOR SOLAR CONDENSER AND CONTROL METHOD THEREOF |
| WO2010128086 A2 20101111 | IT2009PD00120 20090506 | F24J2/42 | VENTURINI FRANCO [IT] | DEVICE FOR THERMAL SEPARATION BETWEEN A CONDITIONED ENVIRONMENT AND AT LEAST ONE EXTERNAL ENVIRONMENT |
| WO2010128135 A2 20101111 | US20090185087P 20090608; US20090176148P 20090507 | F24J2/10; F24J2/46 | SIEMENS CONCENTRATED SOLAR POWER LTD [IL]; SIEMENS AG [DE]; BARKAI MENASHE [IL] | GETTER SUPPORT STRUCTURE FOR A SOLAR THERMAL POWER PLANT |
| WO2010128462 A2 20101111 | IT2009TO00363 20090506 | F24J2/04 | S I E M S R L [IT]; AGUGLIA JORGE MIGUEL [IT] | SOLAR PANEL STRUCTURE AND CORRESPONDING SOLAR PANEL |
| WO2010128473 A2 20101111 | IT2009MI00771 20090506 | F24J2/38 | ECOJOULE S R L [IT]; MARINELLI GIUSEPPE SANTO [IT] | SUPPORTING SYSTEM IN PARTICULAR FOR PHOTOVOLTAIC MODULES |
| WO2010128709 A1 20101111 | KR20090039897 20090507 | F24J2/38 | JANG YUN-KYU [KR] | SYNTHETIC RESIN BEARING FOR PHOTOVOLTAIC TRACKING SYSTEM |
| WO2010128767 A2 20101111 | KR20090040187 20090508 | F24J2/24 | KIM JU SU [KR] | SOLAR COLLECTING APPARATUS AND METHOD FOR MANUFACTURING A PHOTOCATALYST FILTER USED IN SAME |

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|-----------------------------|-----------------------------|--|--|---|
| WO2010129087 A2 20101111 | US20090176669P 20090508 | E04D13/18; E04B7/02; E04D3/00; F24J2/00; H01L31/042; H02N6/00 | SUNPOWER CORP [US]; ALMY CHARLES [US]; BARSUN STEPHAN [US]; SANDLER REUBEN [US]; WARES BRIAN [US]; WAYMAN ELIZABETH [US] | PHOTOVOLTAIC SOLAR COLLECTION AND TRACKING SYSTEM |
| WO2010130461 A1 20101118 | DE200910021581 20090515 | F24J2/54 | F & F VERMOEGENS GBR [DE]; BABBE ANDREAS [DE]; SAGER JENS [DE]; GRAB RENNER TONI [DE] | HOLDING AND FASTENING DEVICE |
| WO2010130727 A1 20101118 | DE200920006970U 20090514 | F24J2/00; F03D9/00; F24D15/00; H02J7/14 | KRINNER INNOVATION GMBH [DE]; THURNER GUENTHER [DE]; THURNER MARTIN [DE] | ORIENTABLE BASE SYSTEM FOR SOLAR PANELS |
| WO2010130736 A2 20101118 | DE200910003151 20090515 | B08B3/02; B60P3/14; F24J2/46 | HABDANK PV MONTAGESYSTEME GMBH [DE]; HABDANK MARTIN [DE]; HABDANK PETER [DE] | SUPPORT ARRANGEMENT FOR SOLAR MODULES |
| WO2010130847 A1 20101118 | ES20090001188 20090511 | F24J2/46; F24J2/48 | SOLTEC EN RENOVABLES SL [ES]; GRANT THOMAS [ES]; MORALES TORRES RAUL [ES] | SINGLE-AXIS SOLAR TRACKER AND SOLAR POWER INSTALLATION |
| WO2010130952 A2 20101118 | FR20090053119 20090512 | E04F13/14; E06B7/10; F24J2/04 | SAINT GOBAIN [FR]; KUSTER HANS-WERNER [DE]; KUSTER FELIX [DE] | ATTACHMENT DEVICE AND METHOD FOR MOUNTING SOLAR MODULES |

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|-----------------------------|----------------------------|---|--|---|
| WO2010133045 A1 20101125 | CN20091027133 20090522 | F24J2/46; F24J2/48; H01L35/32; H02N11/00 | GUO JIANGUO [CN]; MAO XINGYUAN [CN] | SOLAR TEMPERATURE DIFFERENCE GENERATION AND VACCUM HEAT COLLECTION DEVICE |
| WO2010133242 A1 20101125 | WO2009EP03616 20090520 | F24J2/04; F24J2/52 | RENUSOL GMBH [DE]; LOOIS GEERLING [NL]; ZSCHOCH STEPHAN [DE]; WENZLAFF JAN [DE]; KUEBSCH MICHAEL [DE] | MOUNTING SYSTEM FOR SOLAR PANELS AND CONNECTING BRACKET FOR SAME |
| WO2010133693 A1 20101125 | SI20090000147 20090522 | F24J2/46 | ALANOD ALUMINIUM VEREDLUNG GMB [DE]; KEMIJSKI INST NAT INST OF CHEMISTRY [SI]; HELIOS TOVARNA BARV LAKOV IN UMETNIH SMOL KOLICEVO D O [SI]; KOZELJ MATJAZ [SI]; OREL BORIS [SI]; STEINBUECHER MIHA [SI]; JERMAN IVAN [SI]; VODLAN MARJANCA [SI]; PER | COIL-COATED SPECTRALLY SELECTIVE COATINGS ON COPPER OR ALUMINUM WITH PIGMENTS MODIFIED BY AMINOSILANE |
| WO2010134028 A2 20101125 | IT2009TO00382 20090519 | F24J2/10; F24J2/54 | ALBANESE EMANUELE [IT]; BENINI ANDREA [IT] | SOLAR COLLECTOR |
| WO2010134069 A1 20101125 | US20090180362P 20090521 | F24J2/00 | ZWEIG YOHANAN FREDERIC [IL] | LIGHT CONCENTRATOR, REDIRECTOR AND DISTRIBUTOR |
| WO2010134819 A1 20101125 | NO20090001877 20090513 | F24H9/12; F24J2/34; F28D20/00 | NORSK HYDRO AS [NO]; PLOUG OLE [DK]; LUX ROBERT [DE] | HEAT EXCHANGER IN PARTICULAR FOR SOLAR APPLICATIONS |

| Número do Documento | Prioridade(s) | Classificação Internacional | Depositante | Título |
|-----------------------------|--|---|--|---|
| WO2010135191 A2 20101125 | US20100779639 20100513; US20090468992 20090520 | F24J2/34; F24H7/00; F24J2/04 | ZOMEWORKS [US]; BAER STEVE [US]; TAN KEVIN [US] | DUAL AXIS SUPPORT FOR HIGH WIND SOLAR PANELS |
| WO2010135909 A1 20101202 | CN20092156078U 20090523; CN20091178668 20090922 | F24J2/46 | SHI YANG [CN] | STEAM HEATING METHOD USING SOLAR ENERGY AND SOLAR STEAM COOKER |
| WO2010136022 A2 20101202 | DE200920007526U 20090527 | F24H9/00; F24J2/46 | SCHLETTER GMBH [DE]; KOCH BERND [DE]; URBAN HANS [DE] | APPARATUS FOR FASTENING A MOUNTING RAIL TO A THREADED SHAFT |
| WO2010136331 A1 20101202 | DE200910023385 20090529; DE200920007722U 20090529 | F24J2/52 | MATHES MICHAEL [DE] | INSTALLATION FOR CLEANING PHOTOVOLTAIC AND SOLAR INSTALLATIONS |
| WO2010136463 A2 20101202 | DE200910026546 20090528 | F24F5/00; F24J2/05; F24J2/26; F24J2/40 | SCHOTT SOLAR AG [DE]; SCHULTE-FISCHEDICK JAN [DE] | SOLAR COLLECTOR |
| WO2010136468 A1 20101202 | FR20090053466 20090526 | F24J2/07 | BATUT BERNARD [FR]; ART UR SARL [FR]; ENERQOS FRANCE SAS [FR]; PASCAL PHILIPPE [FR]; VOGELISEN MARC [FR]; GASHTI SHAHIN [FR] | PARKING SHELTER PROVIDED WITH PHOTOVOLTAIC SOLAR PANELS |
| WO2010137051 A2 20101202 | IT2009TO00403 20090527 | F24J2/46 | DWA S R L [IT]; CARMELLO CLAUDIO [IT] | TWO-STAGE THERMAL SUN CONCENTRATOR |

| Número do Documento | Prioridade(s) | Classificação Internacional | Depositante | Título |
|-----------------------------|---|------------------------------------|--|---|
| WO2010139772 A2 20101209 | UA20090004252 20090604; WO2009UA00028 20090630 | F24J2/34 | DEV S [FR]; VLADYSLAVOVYCH SCHOKIN PETRO [UA] | SOLAR THERMAL COLLECTOR |
| WO2010139821 A1 20101209 | ES20090001349 20090603 | F03G6/06; F24J2/07 | ABENGOA SOLAR NEW TECHNOLOGIES [ES]; OLAVARRIA RODRIGUEZ- ARANGO RAFAEL [ES]; GARCIA RAMIREZ ELENA [ES]; BARRAGAN JIMENEZ JOSE [ES]; NAVIO GILABERTE RAUL [ES]; SERRANO GALLAR LUCIA [ES] | SOLAR CONCENTRATOR PLANT USING NATURAL-DRAUGHT TOWER TECHNOLOGY AND OPERATING METHOD |
| WO2010139822 A1 20101209 | ES20090001350 20090603 | F24J2/08; F24J2/46 | ABENGOA SOLAR NEW TECHNOLOGIES [ES]; DE DIOS PARDO ANTONIO [ES]; MARTIN MOROTO CARLOS [ES] | STRUCTURE AND CLOSURE OF A PHOTOVOLTAIC CONCENTRATOR MODULE AND ASSEMBLY METHOD THEREOF |
| WO2010139823 A1 20101209 | ES20090001374 20090605 | F24J2/07; F03G6/06; F22G1/06 | ABENGOA SOLAR NEW TECHNOLOGIES [ES]; NAVIO GILABERTE RAUL [ES]; MARTINEZ SANZ NOELIA [ES]; BARRAGAN JIMENEZ JOSE [ES]; SERRANO GALLAR LUCIA [ES]; LLORENTE FOLCH PAULA [ES]; MENDEZ MARCOS JOSE MARIA [ES] | SUPERHEATED STEAM SOLAR RECEIVER |

| Número do Documento | Prioridade(s) | Classificação Internacional | Depositante | Título |
|-----------------------------|--|---|--|---|
| WO2010140110 A2 20101209 | BE20090000343 20090605 | F24J2/05; F24J2/46 | SEGERS BVBA [BE]; SEGERS JOHAN [BE] | FIXING SYSTEM FOR SOLAR PANELS |
| WO2010141750 A2 20101209 | US20090268237P 20090609; US20100311745P 20100308; US20090217794P 20090603 | F24J2/38; F24J2/52; H01L31/042 | GRAVITAS GROUP LLC [US]; PARK KEN HYUN [US] | SOLAR PANEL TRACKING AND MOUNTING SYSTEM |
| WO2010142664 A1 20101216 | US20090185084P 20090608 | F24J2/14 | SIEMENS CONCENTRATED SOLAR POWER LTD [IL]; SIEMENS AG [DE]; GIL ORI [IL]; KLAPWALD SHMULIK [IL]; LEVI NAIM [IL]; SHARON YIGAL [IL] | SOLAR FIELD AND METHOD FOR ASSEMBLING THE SOLAR FIELD |
| WO2010142837 A1 20101216 | ES20090001410 20090612; ES20100030829 20100531 | F24J2/46; B08B1/04; F24J2/14 | ABENGOA SOLAR NEW TECHNOLOGIES [ES]; JIMENEZ HUERTAS JUAN [ES]; GAMEZ VELA DAVID [ES]; GARCIA RAMIREZ ELENA [ES] | CLEANING VEHICLE AND METHOD FOR PARABOLIC TROUGH SOLAR COLLECTORS |
| WO2010143050 A2 20101216 | IT2009UD00115 20090609 | F24J2/14; F24J2/52 | VETRARIA BIANCADESE DI LUCATELLO & C SAS [IT]; COGLIATI DOMENICO PAOLO MARIA [IT] | SUPPORT STRUCTURE FOR SOLAR PLANTS |
| WO2010143173 A1 20101216 | IE20090000451 20090610 | F24J2/52; E04B7/12; E04D3/35; H01L31/048 | KINGSPAN RES & DEV LTD [IE]; CAROLAN JAMES [IE]; FLYNN GREGORY [IE] | A SOLAR COLLECTOR PANEL SYSTEM |

| Número do Documento | Prioridade(s) | Classificação Internacional | Depositante | Título |
|-----------------------------|--|---|---|--|
| WO2010143622 A1 20101216 | JP20090138576 20090609 | F24J2/24; F02C1/05; F03G6/00; F24J2/10 | mitsubishi heavy ind ltd [JP]; AOYAMA KUNIAKI [JP]; INOUE KEI [JP]; KOBAYASHI KAZUTA [JP] | SOLAR HEAT RECEIVER |
| WO2010144389 A2 20101216 | US20090268129P 20090608 | F24J2/10; G02B5/10; H01L31/052 | LIGHT PRESCRIPTIONS INNOVATORS [US]; BENITEZ PABLO [ES]; MINANO JUAN CARLOS [ES]; HERNANDEZ MAIKEL [ES]; BULJAN MARINA [ES] | REFLECTIVE FREE-FORM KOHLER CONCENTRATOR |
| WO2010144672 A1 20101216 | US20090185990P 20090610; US20100794352 20100604 | F24J2/04 | PVT SOLAR INC [US]; NARAYANAMURTHY RAMACHANDRAN [US] | METHOD AND STRUCTURE FOR A COOL ROOF BY USING A PLENUM STRUCTURE |
| WO2010144930 A2 20101223 | AT20090000930 20090617 | F24J2/46 | ALVATEC ALKALI VACUUM TECHNOLOGIES GMBH [AT]; OGRIS ERHARD [AR] | GETTER AND GETTER ARRANGEMENT, DEVICE COMPRISING THE SAME, AND METHOD FOR PRODUCING A GETTER |
| WO2010145059 A1 20101223 | CN20091033408 20090619 | G01C1/00; F24J2/38 | CO CHANCE ENERGY SYSTEM ENGINEERING CO LTD [CN]; XIAO ZHENGDE [CN]; JI JIXIANG [CN]; ZHANG XIAOQIN [CN]; LU SEN [CN]; WANG XINGMIN [CN]; FEI JIANMIN [CN] | SUN-TRACKING PHOTOVOLTAIC DETECTOR |
| WO2010145060 A1 20101223 | CN20091033186 20090615 | H02N6/00; F24J2/38 | SOLAR INDUSTRY LTD [CN]; WANG XINGHUA [CN] | GRID-CONNECTED PHOTOVOLTAIC POWER GENERATION BIAxIAL TRACKING SYSTEM |

| Número do Documento | Prioridade(s) | Classificação Internacional | Depositante | Título |
|-----------------------------|---------------------------|--|---|---|
| WO2010145847 A1 20101223 | IT2009MI01090 20090619 | C10B47/00; B01J19/12; C10B49/02; C10B49/14; C10B51/00; C10B53/06; C10G1/02; C10G1/04; F24J2/00 | ENI SPA [IT]; DELBIANCO ALBERTO [IT]; DE GHETTO GIAMBATTISTA [IT] | PROCESS FOR THE EXTRACTION OF HYDROCARBONS FROM OIL SANDS AND OIL SHALE |
| WO2010146194 A1 20101223 | ES20090030335 20090619 | F24J2/05; F24J2/14 | UNIV MADRID POLITECNICA [ES]; MARTINEZ-VAL PENALOSA JOSE MARIA [ES]; VALDES DEL FRESNO MANUEL [ES]; ABANADES VELASCO ALBERTO [ES]; AMENGUAL MATAS RUBEN [ES]; PIERA CARRETE MIREIA [ES]; MONTES PITA MARIA JOSE [ES]; ROVIRA DE ANTONIO ANTONIO [ES]; MUNOZ ANT | SOLAR THERMAL POWER STATION WITH EXERGETIC MANAGEMENT OF HEAT |
| WO2010146201 A1 20101223 | ES20090001460 20090619 | F03G6/06; E04H5/12; F24J2/07; F28C1/00 | ABENGOA SOLAR NEW TECHNOLOGIES [ES]; OLAVARRIA RODRIGUEZ-ARANGO RAFAEL [ES]; GARCIA RAMIREZ ELENA [ES]; BARRAGAN JIMENEZ JOSE [ES] | TOWER FOR SOLAR CONCENTRATION PLANT WITH NATURAL DRAUGHT COOLING |

| Número do Documento | Prioridade(s) | Classificação Internacional | Depositante | Título |
|-----------------------------|---|--------------------------------------|---|--|
| WO2010148137 A2 20101223 | US20090218861P 20090619 | F24J2/04; F24J2/46 | FAFCO INC [US]; RUBIO MICHAEL ROBERT [US]; BORING CARTEL D [US]; HAPPERSETT WILLIAM E JR [US]; ARONSON NATHAN A [US]; TURNER SHAYNE B [US]; MASSE DAVID C [US]; BACIGALUPO ANDREW J [US]; SMITH BRIAN H [US]; GREENE JOANN C [US] | SOLAR WATER HEATING SYSTEM |
| WO2010148389 A2 20101223 | US20090218935P 20090620 | H01L31/052; F24J2/06; F24J2/08 | UNIV WAYNE STATE [US]; KUO PAO KUANG [US] | LIGHT FUNNEL |
| WO2010149177 A2 20101229 | DE200920008781U 20090626; EG20100001240 20100721 | F24J2/02 | SAMAK NABIL MAHMOUD TALAT WAHBA [EG] | SOLAR HEAT COLLECTOR AND HEAT FOCUSER TO MELT SAND/METAL/SALT OR TO PRODUCE METHANOL AND TO GENERATE SIMULTANEOUSLY ELECTRICITY BY THE COOLING METHODS ANERGY CIRCUITS |
| WO2010150085 A1 20101229 | IT2009UD00121 20090625 | F24J2/54; F16C19/52; F24J2/14 | D D SRL [IT]; DE CILLIA LUIGI [IT]; DURÌ GIORDANO [IT]; ZULIANI GIANFRANCO [IT] | MOVEMENT MECHANISM AND SOLAR PLANT USING SAID MECHANISM |
| WO2010150086 A2 20101229 | IT2009UD00124 20090626 | F24J2/04; E04D3/35 | STUDIO PROSIM SRL CON UNICO SOCIO [IT]; DAMO MARIO [IT] | MODULAR PANEL TO MAKE ROOFS OR WALLS, RELATIVE ROOFS OR WALLS AND RELATIVE METHOD |

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 Coreia |
| 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.