Alerta Tecnológico

INPI INSTITUTO NACIONAL DA PROPRIEDADE INDUSTRIAL

Pedidos de Patentes com Tecnologias Relativas a Deficiência Visual Total ou Parcial

Pedidos Publicados no
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Diretoria de Articulação e Informação Tecnológica – Dart
Centro de Divulgação, Documentação e Informação Tecnológica-Cedin
Divisão de Estudos e Programas – Diespro
Nº 1 – Maio de 2009

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ALERTA TECNOLÓGICO

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O Centro de Divulgação, Documentação e Informação Tecnológica (CEDIN), subordinado à Diretoria de Articulação e Informação Tecnológica (DART), 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 Divisão de Estudos e Programas – DIESPRO, cuja incumbência é elaborar publicações fundamentadas, essencialmente, em informações extraídas de documentos de patente.

A patente é uma importante fonte formal de informação, por meio da qual 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 ou resumos dos pedidos de patentes publicados mundialmente em determinado período permitindo, desta forma, a atualização periódica de seu público alvo.

Esta publicação consiste de:

[1] Foram selecionados somente os primeiros documentos publicados de cada uma das famílias de patente. O conceito de família de patentes é bastante diversificado e varia de acordo com a base de dados na qual os documentos estão indexados. Em linhas gerais, todos os pedidos de patentes pertencentes a uma mesma família têm pelo menos um número de prioridade em comum.

[2] Conforme estabelecido pela Convenção de Paris (CUP) em seu Art. 4º, o primeiro pedido de patente depositado em um dos países membros da Convenção serve de base para depósitos subseqüentes relacionados à mesma matéria, efetuados pelo mesmo depositante ou por seus sucessores legais. Tem-se assim, o **Direito de Prioridade**. O prazo para exercer tal direito é de 12 meses, para invenção e modelo de utilidade. Ver art. 16, da Lei da Propriedade Industrial (LPI), nº 9.279/96 – disponível em www.inpi.gov.br.

Mais detalhes sobre cada pedido, bem como, cópia do documento completo podem ser obtidos nas seguintes bases de patente disponíveis gratuitamente na Internet:

1. Base Brasileira de Pedidos de Patente[3]: http://www.inpi.gov.br
2. Base do Escritório Europeu de Patentes[4]: http://ep.espacenet.com
3. Base do Escritório Americano de Patentes[5]: http://uspto.gov

Caso haja interesse em se conhecer o depósito de patente brasileiro correspondente (família do pedido de patente[1]), para algum(ns) dos pedidos de patente estrangeiros listados no Anexo I, 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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As cópias integrais dos pedidos de patente de interesse podem ser solicitadas por meio do endereço copdocpat@inpi.gov.br ou, por correio postal ao endereço acima.

[3] Esta base contém somente pedidos de patente depositados e publicados no Brasil a partir de 1982.
[4] Contêm pedidos de patente depositados e publicados em mais de 70 países.
[5] Contêm somente pedidos depositados e publicados nos Estados Unidos.

Pedidos de Patentes com Tecnologias Relativas a Deficiência Visual Total ou Parcial

A Secretaria Especial dos Direitos Humanos (SEDH), em especial a Coordenadoria Nacional para Integração da Pessoa Portadora de Deficiência (CORDE), juntamente com várias outras instituições e organizações vêm trabalhando para a identificação e divulgação de Tecnologia Assistiva[6] para portadores de deficiências.

Assim, o INPI vem, por meio do CEDIN, colaborar com a CORDE, facilitando o acesso ao público interessado às informações existentes no banco de patentes do INPI.

O objetivo do presente trabalho consiste em divulgar, a cada semestre, os pedidos de patente publicados sobre Tecnologia Assistiva, tais como, processos ou equipamentos para diagnosticar deficiências visuais, próteses, equipamentos e utensílios desenvolvidos com a finalidade de solucionar dificuldades cotidianas de pessoas com deficiências visuais, entre outros.

Para o presente levantamento foram selecionados os documentos de patente contendo em seu título ou resumo uma das palavras-chave, a seguir: **cego**, **cegueira**, **deficiente visual, deficiência visual, entre outras** e pelo menos uma das classificações internacionais a seguir[7]:

A45B1/00 - Bengalas
A61F 2/14 - Partes dos olhos, por ex., lentes, implantes de córnea
A61H3/06 - Acessórios de marcha para cegos
B41J3/32 – Máquinas para impressão em Braille ou com teclados especialmente adaptados para uso por cegos
G01D 7/12 - Indicação audível das leituras de um medidor, por ex., para cegos

[6] A Tecnologia Assistiva, também conhecida como "ajuda técnica", se refere a tecnologias desenvolvidas para dar independência, autonomia ou facilitar o cotidiano de pessoas com deficiências.
[7] Um documento de patente pode conter uma ou mais classificações.

G04B 25/02 - Indicação da hora por outros meios ou por meios combinados: táteis; Relógios de pulso ou outros para cegos

G04B 25/04 - Relógios despertadores de pulso ou outros com dispositivos de estímulo tátil

G08B 6/00 - Sistemas táteis de sinalização, por ex., sistemas de chamada de pessoa

G09B 21/02 - Dispositivos para escrita em Braile

G09B 21/04 - Dispositivos para conversar com os surdos/cegos

Classificação Internacional de Patentes – CIP

O sistema da Classificação Internacional de Patentes resultou dos esforços conjuntos de órgãos de propriedade industrial de vários países, com o objetivo de dispor, de forma organizada e padronizada, os documentos de patente, a fim de facilitar o acesso (busca) às informações tecnológicas e legais contidas nesses documentos.

O Acordo de Estrasburgo relativo à Classificação Internacional de Patentes, concluído em 1971, entrou em vigor em 1975 e é administrado pela Organização Mundial da Propriedade Intelectual (OMPI). Qualquer país membro da Convenção da União de Paris pode se tornar membro do Acordo de Estrasburgo.

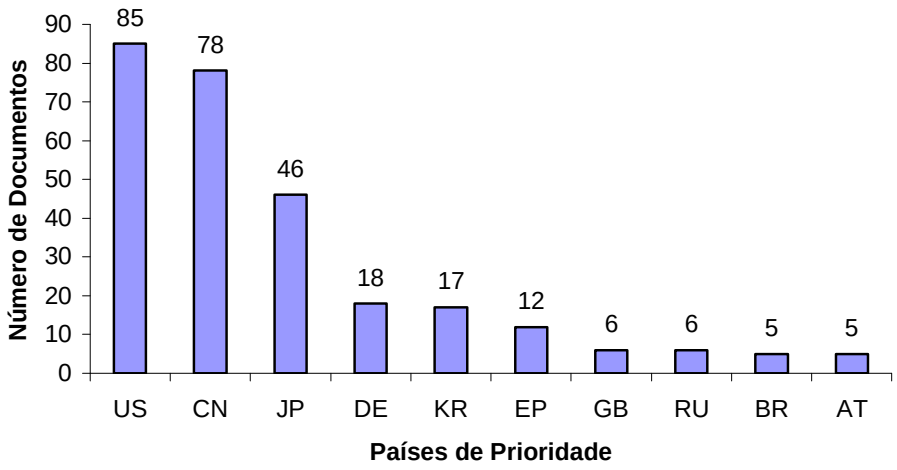
Em julho de 2008, 58 Estados eram parte do Acordo de Estrasburgo, no entanto mais de 100 escritórios nacionais, 4 escritórios regionais e a Secretaria da OMPI, atuando como escritório receptor do Tratado de Cooperação em Patentes (PCT), também utilizavam a Classificação Internacional de Patentes (CIP).

A edição atual da CIP (8ª edição) entrou em vigor em 01/01/2006 e está disponível no *site* da OMPI: http://www.wipo.int/classifications/ipc/ e no *site* do INPI: http://pesquisa.inpi.gov.br/ipc/index.php .

Resultados

O gráfico 1 permite a identificação dos países de prioridade (a lista com os códigos dos países está disponível no Anexo I) dos documentos recuperados no período e a ocorrência em cada país.

Gráfico 1: Países de Prioridade dos Documentos Recuperados x Número de Documentos



Fonte: Elaboração própria a partir da banco de dados EPOQUE[8]

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

US – Estados Unidos da América

CN – China

JP – Japão

DE – Alemanha

KR - Coreia

EP – Escritório Europeu de Patentes

GB – Reino Unido da Inglaterra

RU - Rússia

BR – Brasil

AT – Áustria

[8] O banco de dados EPOQUE é disponibilizado ao INPI, via acesso remoto, pelo Escritório Europeu de Patentes.

Na tabela 1, a seguir, são identificados os depositantes com maior número de pedidos de patente publicados no período e seus respectivos países de prioridade.

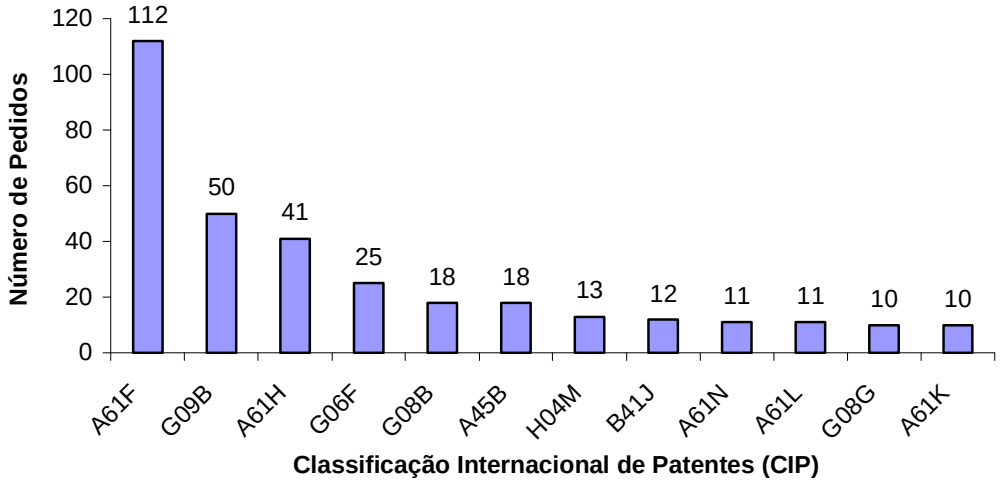
Tabela 1: Relação dos principais depositantes, seus respectivos países de prioridade e nº de pedidos de patentes publicados no 2º semestre de 2008

Nome do Depositante	Prioridade	Total de Documentos
FEDERAL NOE G UCHREZHDENIE MNT	RU	4
SECOND SIGHT MEDICAL PROD INC	AU US WO	4
GREENBERG ROBERT J	US WO	3
KONGJIANG ERCUN PRIMERY SCHOOL	CN	3
REVISION OPTICS INC	US WO	3
UNIV ZHEJIANG	CN	3
ALLERGAN INC	US	2
BEIJING UNION UNIVERSITY	CN	2
BEIJING VOCATIONAL COLLEGE OF	CN	2
BOSTON FOUNDATION FOR SIGHT	US	2
HIGH PERFORMANCE OPTICS INC	US	2
JINXUE HU	CN	2
LIFE SPRING BIOTECH CO LTD	US WO	2
MCMAHON MATTHEW J	US	2
MITSUBISHI ELECTRIC CORP	JP WO	2
MOTOROLA INC	EP US	2
NIDEK KK	JP	2
PARK KYONG JIN	KR WO	2
PERRY ARTHUR C	US	2
SCHNEIDER NED	US	2
SEIKO EPSON CORP	JP	2
SHANGHAI BUSINESS AND INFORMAT	CN	2
SONY ERICSSON MOBILE COMM AB	US WO	2
TNK KK	JP	2
TOSHIBA CORP	JP	2
UNIV HUAZHONG SCIENCE TECH	CN	2
UNIV SHANGHAI JIAOTONG	CN	2
UNIV YAMAGUCHI	JP	2

Fonte: Elaboração própria a partir da banco de dados EPOQUE.

No gráfico 2 são apresentadas as principais classificações contidas nos documentos encontrados na pesquisa. Estas classificações permitem o monitoramento das tecnologias relacionadas ao tema, descritas nos pedidos de patente publicados no período.

Gráfico 2: Número de Pedidos de Patentes Publicados sobre tecnologias relativas a Deficiência Visual Total ou Parcial (2º semestre de 2008) x Classificação Internacional de Patentes (CIP)



A61F - Próteses; Métodos ou dispositivos para tratamento dos ouvidos

G09B – Material para ensino ou comunicação

A61H – Aparelhos para ajudar os deficientes físicos a se locomoverem

G06F – Processamento elétrico de dados digitais

G08B – Sistemas de sinalização ou chamada

A45B – Bengalas

H04M - Comunicação telefônica

B41J - Máquinas de escrever**;** mecanismos de impressão

A61N – Instrumentos para terapia

A61L - Materiais para próteses ou para revestimento de próteses

G08G – Sistemas de controle de tráfego

A61K - Preparações para finalidades médicas

Tabela 2:

Lista com dados bibliográficos dos pedidos de patente publicados, no 2º semestre de 2008.

(Por ordem alfabética do nome do depositante)

Número de Publicação	Prioridade(s)	Depositante	Classificação Internacional	Título ou Resumo
EP2004093	WO2007EP53063 20070329; DE200610015172 20060330	ACRITEC AG [DE]; TOMALLA KARIN [DE]; TOMALLA JUTTA [DE]	A61F2/14	SUPPORT ELEMENT FOR COMPENSATING FOR DEFORMATIONS OF THE CORNEA OF AN EYE
EP2001407	WO2007US05556 20070302; US20060378404 20060317	ADDITION TECHNOLOGY INC [US]	A61F2/14	PRE-FORMED INTRASTROMAL CORNEAL INSERT FOR CORNEAL ABNORMALITIES OR DYSTROPHIES
BRPI0517017	US20040622268P 20041025; WO2005US38821 20051025	ADVANCED MEDICAL OPTICS INC [US]	G02C7/04; A61F2/14 ; A61F2/16	LENTE OFTáLMICA COM MúLTIPLAS PLACAS DE FASE. A presente invenção refere-se a uma lente oftálmica para prover uma pluralidade de focos tem uma ótica compreendendo uma superfície anterior, uma superfície posterior e um eixo ótico.
US2008255663	US20070735179 20070413	AKPEK ESEN K [US] ; BALAJI GOPALAN V	A61F2/14	The present invention is an artificial cornea designed to restore vision in patients who are not candidates to receive a natural cornea transplant (allograft).
US2008170118	US20070622696 20070112	ALBERTSON JACOB C [US] ; ARNOLD KENNETH C [US]	H04N13/02	An object-enabled navigation system assists a vision-impaired user in navigating an environment. The system captures 3D movement of a moving object within the environment, wherein the three-dimensional movement is determined using at least one image
JP2008543432T	US20050690000P 20050613; WO2006US22808 20060612	ALCON INC	A61L27/00; A61F2/14 ; A61F2/16; A61F2/18; C08F290/04; G02B1/04; G02C7/04	OPHTHALMIC AND OTORHINOLARYNGOLOGICAL DEVICE MATERIALS . Disclosed are soft, high refractive index device materials having improved strength.
JP2008543430T	US20050689999P 20050613; WO2006US22691 20060612	ALCON INC	A61L27/00; A61F2/14 ; A61F2/16; A61F2/18; G02C7/04	Disclosed are soft, high refractive index device materials having improved strength. The materials contain a polystyrene macromer.

Número de Publicação	Prioridade(s)	Depositante	Classificação Internacional	Título ou Resumo
US2008181930	US20080022520 20080130; US20070898599P 20070131	ALCON RES LTD [US]	A61F2/14 ; A61K31/343	The present invention concerns implantable ocular devices for the sustained release of medication to the eye, and methods for manufacturing and using such devices.
JP2008272512	US19970908094 19970811	ALLERGAN INC	A61K47/06; A61L27/00; A61F2/14 ; A61K9/00; A61K31/07; A61K31/192; A61K31/455; A61L27/18; A61L27/54	PROBLEM TO BE SOLVED: To improve bicompatibility of a device in tissue. - SOLUTION: An implantable device into which a retinoid is guided is provided.
US2008286334	US20070932101 20071031; US20040918597 20040813; US20030340237 20030109	ALLERGAN INC [US]	A61K31/573; A61F2/14 ; A61K9/00; A61K9/22; A61P27/02	The invention provides biodegradable implants sized for implantation in an ocular region and methods for treating medical conditions of the eye.
CN201139688Y	CN20082001855U 20080117	ALTEK CORP [CN]	A61F9/08 ; A61H3/06	The utility model relates to an electron blind-guide cane, which comprises a cane body, a digital camera, a GPS receiver, a rechargeable battery, a cycle electric organ and a wheel.
AT504662	AT20070000689 20070503	ANSPERGER KURT [AT]	B41J3/38; B41J3/32 ; B41M3/16; G09B21/02	VORRICHTUNG ZUM PRÄGEN VON BRAILLE-SCHRIFTZEICHEN
JP2008274551	JP20070115687 20070425	ASAI TRADING CO LTD; KARUMIKKUSU KK	E01F9/06	PROBLEM TO BE SOLVED: To provide a method of easily and firmly bonding and sticking a braille plate to a surface of a substrate. - SOLUTION: The method of sticking the braille plate to the surface of the substrate is composed of the following steps.
HK1022354	EP19980103009 19980220; WO1999EP02027 19990325	ASULAB SA [CH]	G04G13/02; G08B6/00	Non-sonic alarm device

Número de Publicação	Prioridade(s)	Depositante	Classificação Internacional	Título ou Resumo
DE102007019853	DE200710019853 20070425	ATLANTIC ZEISER GMBH [DE]	B41M3/16; B41J3/32	Ein Verfahren zum Erzeugen dreidimensionaler bzw. haptisch wahrnehmbarer Informationen (1) auf einem flächigen Informationsträger (3) (Substrat), insbesondere zum Erzeugen erhabener Buchstaben, Ziffern, Reliefs, optisch wirkender Gebilde etc.
AT406270T	DE200410062922 20041228	AUSTRIA CARD [AT]	B42D15/10; B41J3/32	DATENTRÄGER MIT TAKTILEM MERKMAL, HERSTELLUNGSVERFAHREN UND VERWENDUNG
WO2008134660	US20070914529P 20070427	AZD HOLDING LLC [US]; DYBBS ALEXANDER [US]	A61F2/14	A system (100) and method for preparing a corneal graft from a corneo-scleral button for keratoplasty, such as DLEK, DSEK, or DSAEK, are characterized by the combination of a sterile, disposable, artificial anterior chamber (102) for holding a corneo-scle
KR100849449B	KR20070021427 20070305	BAEWHA WOMEN S COLLEGE INDUSTR [KR]	G09B11/10; G09B21/00	A PICTURE BOOK IN BRAILLE AND TEACHING MATERIAL SET INCLUDING THE SAME
GB2448166	GB20070006598 20070404	BAKER JESSICA LUCY [GB]; DAVIES PETER ROGER [GB]; KESWANI KARAN [GB]; RAHMAN SAMAAN SYED [GB]	A61H3/06 ; A61F9/08 ; G01S15/93	A device for providing a substitute vision sense to a visually impaired person (e.g. blind person , firefighter, diver) comprises a glove or cuff to attach to a hand or arm of the person.
DE102007022919	DE200710022919 20070514	BAUER JOERG R [DE]	B41J2/005; B41J2/01; B41J3/28; B41J3/32 ; B41J3/407	Bei einem Verfahren zum Erzeugen eines Bauteils mit einer Reliefoberfläche wird die Reliefoberfläche durch Bedrucken eines Rohbauteils (14) mit einer aushärtenden Reliefflüssigkeit mittels eines durch elektronische Datenverarbeitung gesteuerten digitalen
CN201108532Y	CN20072190307U 20071121	BEIJING EAST CHINA SCIENCE AND [CN]	A61F9/007; A61F2/14 ; A61M39/00	The utility model discloses a lacrimal artificial tube, which is a tube manufactured by high-strength glass, one end of the tube is a funnel-shaped opening and the edge of the funnel-shaped opening is provided with more than one fairlead.
CN201164539Y	CN20082005017U 20080321	BEIJING UNION UNIVERSITY [CN]	A61F9/08 ; A61H3/06	The utility model relates to a blind guiding cane, in particular to a cane with the function of obstacle detection. The cane comprises a cane body, a handle arranged at the top end of the cane body and an obstacle detecting system.

Número de Publicação	Prioridade(s)	Depositante	Classificação Internacional	Título ou Resumo
CN201164538Y	CN20082005016U 20080321	BEIJING UNION UNIVERSITY [CN]	A61F9/08 ; A61H3/06	The utility model relates to a blind guiding cane, in particular to a cane with the function of guiding. The cane comprises a cane body, a handle arranged at the top end of the cane body and a guiding system.
CN201131880Y	CN20072190175U 20071115	BEIJING VOCATIONAL COLLEGE OF [CN]	A61H3/06 ; E01C15/00	The utility model discloses a blind stick, which comprises a stick, a concave wheel, wheel hubs, a gripping part, a nut, a screw and a magnetic block. The wheel hubs are positioned at both sides of the concave wheel.
CN201131879Y	CN20072190174U 20071115	BEIJING VOCATIONAL COLLEGE OF [CN]	A61H3/06 ; E01C15/00; E01F9/04	The utility model discloses a blind stick with a metal detector and the blind road thereof. A cam and the metal detector are arranged at the ground approaching end of the blind stick.
CN201108531Y	CN20072157534U 20071119	BENLING WANG [CN]	A61F9/007; A61F2/14	The utility model discloses a dilator used for obsolete lower lacrimal canaliculi laceration, which comprises an epidural catheter, the tube body of the epidural catheter is provided with a heave for dilating the both lacerating ends of the lower lacrimal
WO2008085850	US20070650240 20070104	BENSON SHERRIE L [US]	G06F17/27 - (A3) B41J3/26; B41J3/32 ; B41J5/00; B41J5/06; B41J7/90; G06F5/00; G06F17/20; G06F17/28	A method of forming words utilizing a character actuator unit in which the character actuators are segregated into certain categories. First and second categories are employed and activated simultaneously to generate the beginning and ending.
PT10291T	PT20080010291U 20080201	BERNARDES PEDRO JORGE MARTINS [PT]	A61H3/06	O PRESENTE MODELO DE UTILIDADE REFERE-SE A UMA BENGALA PARA INVISUAIS. APRESENTANDO-SE COMO FERRAMENTA OU INSTRUMENTO AUXILIAR NA AUTONOMIA E MOBILIDADE DA COMUNIDADE INVISUAL. CARACTERIZADO POR POSSUIR TECNOLOGIA DE ULTRA-SONS E RAIOS LASER.

Número de Publicação	Prioridade(s)	Depositante	Classificação Internacional	Título ou Resumo
EP1960986	WO2006CH00684 20061207; CH20050001931 20051207	BERNER FACHHOCHSCHULE [CH]	G09B21/02	DEVICE AND METHOD FOR PRODUCING BRAILLE SCRIPT AND THREE-DIMENSIONAL STRUCTURES
FR2916293	FR20070003575 20070516	BETTON RENE JOSEPH [FR]	G09B21/02	The device has a support (1) provided with bosses (2) maintained on perimeter of the bosses below recesses (5) by a membrane (3) and a flexible junction (4).
DE202008009213U	DE200820009213U 20080709	BICKERT VIKTOR [DE]	G09B21/04	Das Bluetooth-Stumm-Kommunikationssystem
FR2913133	FR20070001350 20070226	BINNERT ERIC [FR]	G09B21/02	The method involves realizing a tactually readable Braille character e.g. a, and superimposing a visually readable character on the tactually readable Braille character.
EP1999675	WO2007IB03610 20070221; US20060775607P 20060221	BIOVISION AG [CH]	A61F2/14	METHOD OF FORMING A CORNEAL POCKET
EP1968520	WO2006SE50113 20060509; SE20050001063 20050510	BLOMGREN GUNNEL [SE]; SIGBJOERNSSON JESPER [SE]	A61H3/04; A45B1/02	WALKING AID
JP2008149719	EP20060025936 20061214	BOBST SA	B31B1/88	PROBLEM TO BE SOLVED: To provide a printer printing a Braille character on a thick paper blank moving in the inside of a folder-gluer, the printer capable of printing the Braille character on an arbitrary position of the blank.
US2008286338	US20070803719 20070515	BOSTON FOUNDATION FOR SIGHT [US]	A61F2/14 ; A61K9/00; A61K31/395; A61K31/56; A61K38/16; A61P27/02	A scleral lens is provided with a drug that is retained in the reservoir of fluid between the scleral lens and the cornea. This system can be used to deliver drugs not currently used because of poor bioavailability, to increase bioavailability of drugs.

Número de Publicação	Prioridade(s)	Depositante	Classificação Internacional	Título ou Resumo
US2008286337	US20070803709 20070515	BOSTON FOUNDATION FOR SIGHT [US]	A61F2/14 ; A61K9/00; A61K31/56; A61K38/16; A61K39/395; A61P27/02	A scleral lens is provided with a drug that is retained in the reservoir of fluid between the scleral lens and the cornea. This system can be used to deliver drugs not currently used because of poor bioavailability, to increase bioavailability of drugs.
WO2008155748	WO2008IB53581 20080904	BUSIN MASSIMO [IT]	A61F9/00; A61F2/14 ; A61F9/013; A61K9/00; C12N5/06 - (A3) A61F2/14 ; A61F9/013	The present invention relates to a new isolated cornea wherein the Descemet's membrane is separated from the overlying corneal stroma by an air cushion, the method for the preparation thereof, a new method for the preparation of a Descemet's membrane.
US2008281377	US20080114657 20080502; US20070928407P 20070508; US20070928440P 20070508	CASPI AVRAHAM [US] ; DORN JESSY [US]	A61N1/00; A61F2/14	A visual prosthesis and a method of operating a visual prosthesis are disclosed. Neural stimulation through electrodes is controlled by spatial maps, where a grouped or random association is established between the pixels of the acquired image.
KR20080070820	US20050725286P 20051012	CELLULAR BIOENGINEERING INC [US]	C12N5/06; A61F2/14 ; C12N5/08	RESORBABLE CORNEA BUTTON
CN201171432Y	CN20082010845U 20080219	CHAO WANG [CN]	A45C11/24; A45C13/18; G08B6/00 ; G08B13/08	The utility model relates to a mobile phone jacket which includes a jacket body; a pulsator is arranged at the jacket cover part of the jacket body and is connected with a switch at the top end of the jacket body.
DE202008003455U	DE200820003455U 20080311	CHEN LU	A61F9/08 ; G01S13/88	Tragbares Gerät als Orientierungshilfe für Blinde
KR20080100646	KR20070046610 20070514	CHO HYUN JIN [KR]	B65D25/34; B65D25/08; B65D65/38	SOFT PACKING MATERIALS FOR BRAILLE , THE MANUFACTURING PROCESS THEREOF AND THE CONTAINER PROVIDED WITH THE SAME
CN201112525Y	CN20072183381U 20070925	CHUNMEI ZENG [CN]	H01M10/44; H01M10/48; H02J7/00	The utility model relates to a charging capacity prompt device for a charger. A charger with a voice prompt device comprises a charger case, a battery chamber in the charger case.

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US2008284100	US20070750126 20070517	CLEMENT JOSEPH FREDRICK [US]	A63F1/00	A pack of playing cards for visually impaired persons has a small narrow indicator along the outside edge of the card, and large indicators at the top and bottom of the card, that indicate the suit of the card.
EP1982682	EP20070425221 20070417	COM ING S R L [IT]	A61H3/06	An electronic system that enables a person with a visual impairment to acquire information regarding a container for refuse collection so that said disabled person can identify it in order to reach it easily and use it correctly.
WO2009000961	ES20070001732 20070622	CONSEJO SUPERIOR INVESTIGACION [ES]; PONTICELLI ROBERTO [ES]; GONZALEZ DE SANTOS PABLO [ES]; ARMADA RODRIGUEZ MANUEL ANGEL [ES]	G01B21/20; G09B29/00	The present invention describes a device useful for generating outline maps comprising a base (open, closed or with any shape), whereon is positioned a network of one or more measurers of exact distance.
EP1981436	WO2007AU00044 20070117; AU20060900235 20060117	CORONEO MINAS THEODORE [AU]	A61F2/14 ; A61F9/007	A CAPSULAR IMPLANT FOR MAINTAINING THE SHAPE AND/OR POSITION OF AN OPENING FORMED BY CAPSULORHEXIS
NZ568738	AU20070903648 20070705; AU20070906297 20071116	CTA AUSTRALIA PTY LTD	E01F9/04; A61H3/06	A ground surface indicator (1) for providing a tactile indication to a person, particularly a person with impaired vision, is disclosed.
BRMU8701024U	BR2007MU01024U 20070322	DA CONCEICAO CASTRO FEITOSA MARIA [BR]	G09B1/16; G09B21/00	KIT ALFABETO. Patente que visa a alfabetização, de forma diferenciada inclusive para pessoas com necessidades especiais. Desenvolvido a partir de experiência em sala de aula, com alunos diferenciados ou não.
CN201146557Y	CN20072184917U 20071214	DAI CHEN [CN]	H04M1/247; H04M1/23	A mobile phone keypad for the blind comprises a keypad consisting of a number key and a function key.
EP1993479	WO2007AT00130 20070316; AT20060000428 20060316	DAXER ALBERT [AT]	A61F2/14	CORNEA IMPLANT

Número de Publicação	Prioridade(s)	Depositante	Classificação Internacional	Título ou Resumo
DE102007057924	DE200710027507 20070614; DE200710057924 20071201	DEHARDE THOMAS [DE]	G06F3/00	The method involves transmitting an ever weaker force-feedback-signal by an outer sheath from interior to exterior. A very strong force-feedback-signal is transmitted by a thin inner layer.
US2008243138	US20070692835 20070328	DISHLER JON [US] ; SCHNEIDER NED [US]	A61F2/14	Provided therein are apparatuses, systems and methods for storing and retrieving a corneal implant and for delivering the corneal implant in or on the cornea.
US2008297328	US20070755845 20070531	DISNEY ENTPR INC [US]	G08B6/00	An apparatus for providing tactile feedback to an operator. The apparatus includes first and second magnetic assemblies having first and second magnets, respectively.
EP1983936	WO2007US04399 20070215; US20060355094 20060215	DOHENY EYE INST [US]	A61F2/14	WIDE-FIELD RETINAL PROSTHESIS
CZ18826U	CZ20070019084U 20070808	E4T ELECTRONICS FOR TRANSP S R [CZ]	G06F19/00; A61F9/08 ; G06Q50/00; G06Q99/00	Information system for blinds
WO2008082648	US20060646134 20061227	EASTMAN KODAK CO [US]; TOMBS THOMAS NATHANIEL [US]; CHOWDRY ARUN [US]; TAI HWAI-TZUU [US]; TYAGI DINESH [US]; ASLAM MUHAMMED [US]; GOMES EARL GREGORY [US]	G03G15/22; G03G15/32; G09B21/02	Electrographic printing wherein raised information, with a distinct tactile feel, can be printed by electrographic techniques.
EP1955306	WO2006US39510 20061011; US20050247189 20051012	ELIA LIFE TECHNOLOGY [US]	G09B21/00	ALPHANUMERIC FONT FOR THE BLIND AND VISUALLY IMPAIRED
US2008303646	US20080125901 20080522; US20070931399P 20070522	ELWELL JAMES K [US] ; SOSS DAVID A [US]	G08B6/00	A tactile device comprising a tactile device and a feedback mechanism operable with a sensing surface to receive a force input from a user and transfer that force input to a force sensing element.

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BE1017451	BE20070000036 20070130	ERYATECH [BE]	B41J3/00; B41M3/00	The method involves using liquid on a printable surface e.g. porous surface for printing characters, pictogram, logos or other forms of printing.
DE102007003341	DE200710003341 20070117	EYESENSE AG [CH]	A61B5/00; A61B3/00; A61B5/1455; A61F2/14 ; G01N21/63; G01N21/64; G01N33/52	Es wird ein Okularsensor (110) zum Nachweis mindestens eines Analyten in einer Augenflüssigkeit vorgeschlagen.
US2008309913	US20080139828 20080616; US20070934990P 20070614	FALLON JAMES JOHN [US]	G01C3/08; H01L25/00	A 3D imaging ladar system comprises a solid state laser and geiger-mode avalanche photodiodes utilizing a scanning imaging system in conjunction with a user interface to provide 3D spatial object information for vision augmentation for the blind.
CN201114601Y	CN20072006937U 20070429	FAPING LIU [CN]	H04Q7/32; G08B6/00	The utility model discloses a device for the mobile phone incoming call induction and vibration reminding device, comprising a minicell, a micro vibration motor and a shell that can be disassembled and has hanging holes.
RU2340309	RU20070107887 20070305	FEDERAL NOE G UCHREZHDENIE MNT [RU]	A61F9/00 - (C1) A61F2/14 ; A61F9/007	FIELD: medicine; ophthalmology. ^ SUBSTANCE: intrascleral implant for surgical treatment of presbyopy is executed from a synthetic material and looks like a bracket with the basis and two pads executed conjointly with basis at an angle of 90 degrees
RU2341230	RU20070123121 20070620	FEDERAL NOE G UCHREZHDENIE MNT [RU]	A61F2/14	FIELD: medicine. SUBSTANCE: artificial lens of an eye contains a haptic and an optical part including a spherical surface. The optical part consists of one component which forward surface contains two surfaces.
RU2339340	RU20070123123 20070620	FEDERAL NOE G UCHREZHDENIE MNT [RU]	A61F2/14	FIELD: medicine. ^ SUBSTANCE: artificial eye lens (AEL) consists of haptic and optic parts, including spherical surface. Optic part consists of a single component, front surface of which has two surfaces.

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RU2335259	RU20070117324 20070510	FEDERAL NOE G UCHREZHDENIE MNT [RU]	A61F2/14	FIELD: medicine. ^ SUBSTANCE: invention relates to ophthalmosurgery. Artificial eye lens contains flat haptic part and optic part. Anterior surface of optic part is made in form of elliptic segment of concave ellipsoidal surface.
WO2008104041	WO2007BR00054 20070301	FILHO LUIZ TARCISIO BANNWART [BR]	G09B21/00	Reading and Writing System based on the Braille language, which adds another column to its structural grid, creating new combinations to represent the alphabet, numbers and symbols.
US7410359	US20040711423 20040917; US20040481979P 20040130	FREEDOM SCIENT INC [US]	G09B21/00	The present invention discloses an electromechanical tactile cell assembly comprising a plurality of piezoelectric element reeds, each one of the piezoelectric element reeds being bendable at an elongated end portion when a voltage is applied to the reed.
CN201153013Y	CN20072177681U 20070930	FUHUI DONG [CN]	G09B19/00	The utility model provides a massage realia which comprises pre-embedded signal generators, a finger zone perceptron, a pulse generator and a data processor, wherein, the number of the pre-embedded signal generators is not less than one.
JP2008289584	JP20070136424 20070523	FUJITA YOSHITO	A61F9/08 ; A45B3/00; A61H3/00; A61H3/06 ; E01F9/011; E01F11/00; G08G1/005; G09B21/00	PROBLEM TO BE SOLVED: To safely and smoothly guide a visually -impaired person by introducing a system for informing the visually -impaired person of a risk. - SOLUTION: The system is composed of electronic chips disposed along a walk path for trans.
JP2008180652	JP20070015421 20070125	FUJITSU COMPONENT LTD	G01C21/00; A61F9/08 ; A61F11/04; A61H3/06 ; G08G1/005; G08G1/095; G09B29/10	PROBLEM TO BE SOLVED: To propose direction presenting system capable of performing direction presenting surely from direction indicating information by stimulating user's tactile with simple structure.

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WO2008120303	WO2007JP56600 20070328	FUJITSU LTD [JP]; ISHIDA MIYUKI [JP]; WATANABE TAKAYUKI [JP]	G09B21/00; G06F3/02	An electronic device (1) with a braille input function is provided with braille input units (40a-40f) for inputting a braille by a plurality of pressing units and braille confirming units (50, 81,82) for outputting input brailles.
JP2008227698	JP20070059975 20070309	FUNAI ELECTRIC CO	H04N5/44; H04N5/00; H04N7/173; H04Q9/00	PROBLEM TO BE SOLVED: To provide a television receiver for allowing a visually handicapped person to understand the content of a channel as it is displayed and to perform channel switching.
CN201162634Y	CN20082069660U 20080319	GANGQIANG XIAO [CN]	F03G5/00; A45B3/04; A45B5/00; F16M13/08; H02J7/14	The utility model relates to a generating type multi-functional walking stick which can effectively solve the problem of the need of the inconvenient walking people and the blind men when the people walk outdoors.
WO2008103822	US20070891005P 20070221	GH LLC [US]; SCHLEPPENBACH DAVID A [US]; RHODES KYLE S [US]	G09B21/00	A braille embosser device includes a plurality of hammers configured to strike a substrate and thereby produce thereon braille -readable projections. A controller is connected to the hammers and controls the striking by the hammers.
US7400716	US20040888672 20040709	GIBSON SR AARON [US]	H04M1/60; H04M9/00	A multifunctional intercom system having message recording/retrieval functions, a remote control unit, and music playing capabilities, wherein the various buttons are labeled in Braille for use by hearing impaired individuals.
KR20080076270	KR20070015995 20070215	GOLDEN KEY INFORMATION TECHNOL [KR]	G06F17/00	SYSTEM FOR GUIDING ROAD A BLIND PERSON
US2008198222	US20080012603 20080204; US20070899293P 20070202	GOWDA SANJAY [US]	H04N7/18	A computer based process for providing a visually impaired subject with multi-modal (local, remote, human-aided, computer-aided), multi-sensory (hearing, touch), information about the subject's physical environment is disclosed, involving identifying
CN101276506	US20070885310P 20070117	GRACO CHILDRENS PROD INC [US]	G08B21/02; G08B6/00 ; G08B25/10	Disclosed herein are child monitor systems and methods in which a device includes a receiver that receives a wireless signal including audio data indicative of sounds captured at a remote location.

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CN101256389	CN20081027333 20080410	GUANGZHOU YIPENG ELECTRIC APPL [CN]	G04B25/02	The invention relates to a clock specially for providing time information for the blind, the minute hand and the hour hand of the clock respectively rotate in the inside track and the outside track of the clock and fill the corresponding hollowed-out position.
DE102007014156	DE200710014156 20070320	GUDER STEFAN [DE]; KLEEN WERNER [DE]; SPERLING WOLFGANG [DE]	H04N7/18; H04N5/225; H04N5/247; H04N5/63; H04N5/64; H04N5/72; H04N13/00	The electronic corrective lens has an image acquisition unit which comprises a video camera containing charge-coupled device (CCD) or complementary metal-oxide-semiconductor (CMOS) technology.
EP1994517	WO2007AT00117 20070308; AT20060000398 20060310	HAHN WERNER [AT]; HANKE RONALD [AT]; KREUTER JOHANN [AT]	G09B21/00	BRAILLE READING DEVICE
CN201164535Y	CN20082005889U 20080228	HAI TAO [CN]	A61F9/007; A61F2/14	The utility model discloses a double-lacrimal-duct implantation type artificial lacrimal duct, which comprises a flexible duct body with the external diameter of 0.8 to 1.2 mm, wherein, a plurality of through holes with the diameters of 0.25 to 0.5 mm
US7404583	US20050134694 20050520; US20040573536P 20040521	HASSEN MENDY K [US]	B65H69/04	A shoe tying device or apparatus comprising a ring and a method of using same to facilitate the tying of laces in lace-up shoes and also a method of using same.
JP2008281969	JP20070150963 20070509	HAYAKAWA TETSURO	G02B5/20	PROBLEM TO BE SOLVED: To provide an optical filter for color discrimination which easily discriminates a plurality of arbitrary colors, requires only one optical filter except when used as glasses and having a simple structure to be inexpensively manufact

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US2008221674	US20080037565 20080226; US20070933069 20071031; US20070761892 20070612; US20060378317 20060320; US20070892460 20070823; US20070903324P 20070226	HIGH PERFORMANCE OPTICS INC [US]	A61F2/14 ; G02C7/04; G02C7/10	A corneal inlay protects ocular structures from harmful wavelengths of light while maintaining acceptable color cosmetics, color perception, overall light transmission, photopic vision, scotopic vision, color vision, and/or cirdadian rhythms.
WO2008106449	US20070903324P 20070226; US20070906205P 20070312	HIGH PERFORMANCE OPTICS INC [US]; BLUM RONALD [US]; ISHAK ANDREW [US]; HAALAND PETER [US]; PACKARD MICHAEL [US]; SCHUMER D JAMES [US]	A61F2/14	A corneal inlay protects ocular structures from harmful wavelengths of light while maintaining acceptable color cosmetics, color perception, overall light transmission, photopic vision, scotopic vision, color vision, and/or cirdadian rhythms.
DE102007024049	DE200710024049 20070523	HOERMANSDOERFER GERD [DE]	A61F2/14 ; A61F9/007	The implant (1) is formed of a wire with meander-shaped loops (2-5), which are provided at upper and lower edges. A surface sweeps over the wire is curved in two axes. Curvatures are realized as complex curvatures with different curvature radii.
CN201112190Y	CN20072026156U 20070805	HONGBO JIANG [CN]	H01H13/14; H01H13/70	The utility model discloses a novel keyboard which comprises a keyboard body (3) and a plurality of key seats installed on the keyboard body (3) and key caps (1) installed on the key seats.
CN201131379Y	CN20072308743U 20071230	HUILING WANG [CN]	A45B1/02	The utility model discloses a dual-purpose wheel stick, which comprises a handle and a stick body. The handle and the stick body is connected in an included angle of one hundred to one hundred and fifty degrees.
CN101211251	US20060618707 20061229	IBM [US]	G06F3/048	System and method for improving the navigation of complex visualizations for the visual impairer

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EP2001406	WO2007EP00684 20070126; DE200610015113 20060331	IMI INTELLIGENT MEDICAL IMPLAN [CH]	A61F2/14	DEVICE FOR REVERSIBLY ATTACHING AN IMPLANT IN AN EYE
AT400032T	US20010974759 20011009	IMMERSION CORP [US]	G06F3/16; G06G3/00; G06F3/00; G06F3/01; G06F3/033; G08B6/00 ; G10L21/06	HAPTISCHE RÜCKKOPPLUNG VON EMPFINDUNGEN AUF DER BASIS VON AUDIOAUSGABEN VON COMPUTEREINRICHTUNGEN
CN101324810	CN20081116754 20080716	INST COMPUTING TECH CN ACADEMY [CN]	G06F3/03	The invention relates to a Braille computer input system based on a light sensor and a method thereof. The method comprises the following steps: step 91, a user inserts a Braille pen in a Braille hole corresponding to the current braille.
NZ541277	US20030498423P 20030827; WO2004AU01156 20040827	INST EYE RES	A61F2/14 ; A61F9/00; A61F9/013; G02C7/04	A corneal reshaping by means of a soft contact lens to manipulate tear pressure gradient to produce a dimensional change to the surface profile of the cornea of the wearer to provide at least a temporary change in the refractive state of the eye.
EP1960981	WO2006IB55062 20061123; IT2005TO00833 20051124	ISTITUTO SUPERIORE MARIO BOELL [IT]; AGES IND SRL [IT]	G08G1/005; A61H3/06 ; G01S1/68	SYSTEM FOR EXPLOITING INFORMATION SELECTED ON THE BASIS OF THE POSITION OF A USER, IN PARTICULAR A VISUALLY IMPAIRED USER, METHOD AND COMPUTER PROGRAM PRODUCT THEREFROM
WO2008081234	IT2006MI02299 20061129	ITEX DI MARCO GREGNANIN [IT]; GREGNANIN MARCO [IT]	G02B27/02	The present invention relates to an indicator device (1) conceived for visually impaired and/or blind users which, in combination with a software program, allows determination of the graphical properties of a target area of an object (100).
US2008177384	JP20050054421 20050228; WO2006JP01941 20060131	IWAMOTO HIDETOSHI [JP]	A61F2/16; A61F2/14	Provided is an intraocular lens that inhibits secondary cataract which occurs after insertion of an intraocular lens and that is free from the adherence and deposition of a protein, etc., to/on the front surface of the lens.

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US2008204471	US20070925548 20071026; US20060863330P 20061027	JAEGER BRIAN J [US] ; NASH ROBERT D [US]	G09G5/02	A system and method employing a software-coloring tool designed to automatically display specified background color tints to all documents and windows displaying white backgrounds on any image display unit including but not limited to desktop, laptop.
US2008317890	US20070766502 20070621	JENSEN CLAUDE JARAKAE [US] ; OCAMPO ENRIQUE [US]	A61K36/74; A61P27/00	Implementation of the present invention takes place in association with the utilization of one or more processed products produced from the Indian Mulberry plant, scientifically known as Morinda citrifolia L..
CN101327049	CN20071076229 20070623	JIEZHI LI [CN]	A41D1/00	The invention relates to a dress specially designed for blind persons . The dress comprises a dress body, salient points are arranged on the surface of the dress body, and connected together to form Braille patterns.
CN201128298Y	CN20072149621U 20070613	JINGWEI ZHAO [CN]	B42D15/00; A63F1/02; B42D1/00; B42D15/02; G09B21/00	The utility model discloses a printed product, which comprises a printed body printed with characters and/or graphics. Braille which is directly printed on the surface by UV light-curing oil.
CN201126606Y	CN20072131701U 20071218	JINXING ZHANG [CN]	G08B6/00 ; G08B1/06; G08B7/06	The utility model discloses a device which realizes the awaking of the normal person which sleeps deep and the deaf that has audition obstacle in time and at the same time can receive the alarming information through vibration.
CN201097718Y	CN20072191694U 20071114	JINXUE HU [CN]	A45B1/00	The utility model provides an object holding button arranged on a cane, being characterized in that the object holding button is used to fix an elastic sleeve with an opening on the cane.
CN201097717Y	CN20072191693U 20071114	JINXUE HU [CN]	A45B1/00	The utility model provides an object holding button arranged on a cane, being characterized in that the object holding button comprises a button body which is connected with a fixation sleeve fixed on the cane.

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WO2008121626	US20070921029P 20070331	JOHNSON & JOSHNON VISION CARE [US]; HILL GREGORY A [US]; YOUNG KENT [US]; CHAOUK HASSAN [US]; RATHORE OSMAN [US]	A61L12/08; G02B1/04 - (A3) A61L12/08; A61F2/14 ; A61F2/16; A61K9/00; A61L27/54; G02B1/04	This invention relates to antimicrobial lenses containing metals and methods for their production.
US2008262612	KR20050017153 20050302; KR20050022525 20050316; KR20050022527 20050316; KR20050044325 20050524; KR20050044327 20050524; WO2005KR02151 20050707	JUN MAL-SOO [KR] ; JUN JONG-HEON [KR]	A61F2/14	The present invention relates to a bio-artificial eye which is produced by a process comprising adding loess, zeolite, bentonite, bioceramic or nano-silver to acrylic resin powder.
JP2008297827	JP20070146044 20070531	KAIHATSU GIKEN KK; ADVANCE KK; M ART CORP KK	E01F9/06; B29C39/10; E01F9/053	PROBLEM TO BE SOLVED: To provide a braille rivet efficiently having high slip resistance and high visibility. - SOLUTION: This braille rivet comprises a metal rivet body 2 having a head part 3 and a leg part 4 and a resin cap part 5 covering the head
AT505052	AT20070000485 20070328	KANTNER EWALD [AT]	H04M1/23; G09B21/00; H04M1/60; H04M1/725; H04Q7/32	The communication device has mobile phone, which exchanges information in both directions and a user. The information is communicated in the form of alphanumeric characters by the user to the communications device in the form of character.
JP2008190195	JP20070024974 20070205	KAWAGUCHI METALWORK INC	E04F11/18; G09B21/00	PROBLEM TO BE SOLVED: To provide a connection pipe with an engraved mark such as braille , which is safely and easily mountable on an existing handrail pipe at a location which is partly cut out.

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US2008272936	KR20050016637U 20050610; WO2006KR02228 20060612	KIM JONG HAE [KR] ; KIM TOMMY Y [US]	G08G1/096	This invention relates to provide a pedestrian signal system not only for the normal pedestrian but also for the blinds , the disabled person of weak sight, and the illiterates by displaying the remaining time of each signal change in image figures
KR20080098099	KR20070043341 20070504	KIM WOO HYUK [KR]	G09B21/02 ; G09B21/00	BRAILLE FOR RESIN OF HARDNESS
US2008260210	US20070770597 20070628; US20070913486P 20070423	KOBELI LEA [US] ; CHAUBERT EVELYNE [US]	G06K9/00	Embodiments of the invention provide devices and methods for capturing text found in a variety of sources and transforming it into a different user-accessible formats or medium.
CN101273949	CN20071038869 20070330	KONGJIANG ERCUN PRIMERY SCHOOL [CN]	A61H3/06	The invention provides a luminous walking stick for a blind, thus solving the safety problem of walking at night for the blind.
CN101273948	CN20071038868 20070330	KONGJIANG ERCUN PRIMERY SCHOOL [CN]	A61H3/06	The invention aims at providing a guide machine dog which can act according to the command of an owner and effectively feed back various information to the owner, thus achieving the interaction and guiding the road for the owner.
CN101273947	CN20071038579 20070328	KONGJIANG ERCUN PRIMERY SCHOOL [CN]	A61H3/06 ; A45B3/04; A61H3/04	The invention relates to a walking stick. The novel walking stick comprises a walking stick body and further comprises: a power generation device which comprises a rotor thereof and is arranged on one end of the walking stick body.
BRMU8700381U	BR2007MU00381U 20070307	KUMRUIAN SARKIS [BR]	A61F9/08	REVESTIMENTO PARA IDENTIFICAçãO TáCTIL PARA APLICAçãO EM ELEMENTOS TUBULARES PARA APOIO DE ONIBUS OU OUTROS. Constituído por revestimento tubular (1), confeccionado em material plástico colorido e obtido por processo de extrusão, com vão interno
US2008206722	JP20070048032 20070227	KYOCERA CORP [JP]	G09B21/02	A Braille -character display device includes a movable pin array, a plurality of movable pin pressing parts, a Braille -character generating part and a movable pin controlling part.
JP2008301104	JP20070144018 20070530	KYOCERA MITA CORP	H04N1/00; G03G21/00	PROBLEM TO BE SOLVED: To provide an image forming apparatus which ensures improved operability for unexperienced and visually -impaired

Número de Publicação	Prioridade(s)	Depositante	Classificação Internacional	Título ou Resumo
				people.
KR20080114218	KR20070063566 20070627	KYUNGPOOK NAT UNIV IND ACAD [KR]	A61F9/007; A61F2/14 ; A61F9/00	INTRASCLERAL IMPLANT FOR THE SUSTAINED RELEASE OF TRIAMCINOLONE ACETONIDE
NZ555918	NZ20070555918 20070615	L & D TECHNOLOGY LTD	H04B7/00; G01S3/00; H04B10/00	An orientation system for a visually impaired user is disclosed. The orientation system includes a base station and a handset. The base station is attached close to an item that the user wishes to orientate themselves to.
BRMU8700156U	BR2007MU00156U 20070124	LAMARA ASSOCIACAO BRASILEIRA D [BR]	B41J3/32	DISPOSIçãO INTRODUZIDA EM MáQUINA DE ESCREVER EM BRAILLE . O presente modelo refere-se a uma máquina de escrever em Brailie, com uma construção otimizada.
US2008262610	US20070738349 20070420	LANG ALAN [US] ; MILLER TROY [US]	A61F2/14	Provided herein are intracorneal inlays for correcting vision impairments by altering the shape of the anterior corneal surface.
KR100853513B	KR20070085568 20070824	LEE KI WOONG [KR]; DAEWON SCIENCE COLLEGE INDUSTR [KR]	A61H3/06 ; A61H3/02	STICK FOR GUIDING BLIND PERSON
KR100860490B	KR20080030737 20080402	LEE SANG KWON [KR]	B41M1/12; B41F15/14; B42D1/00	MANUFACTURING METHOD OF BRAILLE PRINTED MATTER AND BRAILLE PRINTED MATTER
CN201153614Y	CN20082010452U 20080124	LEI ZHENG [CN]	A45B3/00; A45B1/02	A convenient walking stick belongs to the field of A45B7/00 in the International Patent Classification, and comprises a main rod and a handrail.
CA2632473	US20070806442 20070531	LIFE SPRING BIOTECH CO LTD [TW]	A61L27/24; A61F2/14 ; A61L27/20; A61L27/56	Embodiments of the present invention are directed to three-dimensional poro us structures for modulating intraocular pressure. The structures can include a mixture of copolymers, for example, collagen and glycosaminoglycan.
EP1946723	WO2005CN01801 20051031	LIFE SPRING BIOTECH CO LTD [TW]	A61F2/14	A scleral buckling band and a method for making the same are described. The scleral buckling band is used for an ophthalmic operation, which is biocompatible and has a slender cylindrical structure formed by a decomposable and absorbable material.

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CN201122404Y	CN20072087781U 20071026	LISI AI [CN]	G09F13/04; G09F25/00	The utility model relates to a bus stop reporting type lamp box for a bus stop board, which comprises a bus stop board lamp box (1) and a power converter (2).
US2008280265	US20080113215 20080501; US20070915153P 20070501	LOPEZ-JAIME ERIC [US]	G09B21/00	The system is a universal code whose main purpose is to provide visually impaired people with much wanted personal independence.
US2008186199	US20080025840 20080205; US20070888689P 20070207	LYNN DAVID [US] ; LYNN BARRY [US]	G05B19/02	The present invention is an alert system and apparatus that interrupts the operation of sound producing and video display entertainment and communication devices and replaces the signals with an audible verbal annunciation.
JP2008301924	JP20070150058 20070606	M & F KK	A61F9/08 ; A47G27/04; E04F15/02	PROBLEM TO BE SOLVED: To provide a Braille tack receiver capable of improving the workability and work efficiency of Braille tack attaching work.
EP1989696	WO2007US03222 20070205; US20060765625P 20060206	MACHELL LYDIA [GB]	G09B15/02	BRAILLE MUSIC SYSTEMS AND METHODS
DE202008009779U	DE200820009779U 20080722	MACK WERNER [DE]	A61H3/02; A45B1/00 ; A45B9/02	Gehstütz-Vorrichtung mit Halter-Einrichtung
NL1033920C	NL20071033920 20070601	MARCUS ALPHONSUS ARNOLDUS KAGE [NL]	A45B1/04; A61H3/02	Wandelstok met klemsysteem.
US2008249621	US20080140678 20080617; US20040847515 20040517	MASSACHUSETTS EYE & EAR INFIRM [US]	A61F2/14 ; G02C7/04	A vision prosthesis includes an optical element having a surface that is shaped to be positioned near a cornea of an eye, and a magnetic element embedded in the optical element.
CA2582646	CA20072582646 20070319	MAZEN MOHAMED H [CA]; JAIN SACHINDRA K [CA]	G09B21/00; G06F17/28	GRADE 2 INPUT (DOTSTYPE) BRAILLE TO TEXT TRANSLATOR
US2008318191	US20080073808 20080310; US20040808456 20040325	MCADAMS JOHN B [US] ; PINTO STEPHEN G [US]	G09B21/02 ; G09B21/00	A Braille type device including printed or displayed matter on a medium in combination with printed or displayed Braille type code, preferably machine readable Braille type bar code.

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US2008218346	EP20070103871 20070309	MERMET JEAN-FRANCOIS [FR] ; PUCCI BERNARD [FR]	G08C21/00	An identifier device, which may be part of a tracking or similar transponder device, which can be removably coupled to an article to be identified or tracked.
JP2008280174	JP20070128449 20070514	MITSUBISHI ELECTRIC CORP	B66B1/14; B66B13/26	PROBLEM TO BE SOLVED: To provide an operation panel for an elevator allowing visually -impaired persons to easily, quickly and accurately register a target floor. - SOLUTION: The operation panel for the elevator comprises a car room 1 having a car acce
WO2008155836	WO2007JP62421 20070620	MITSUBISHI ELECTRIC CORP [JP]; KATSURA MASAOMI [JP]	B66B1/46; B66B1/14	Provided is an elevator destination floor registration device which uses a touch panel display and has such an excellent operability that even a visually impaired person can easily and accurately register his/her destination floor.
KR20080086203	KR20070028061 20070322	MOITECH CO LTD [KR]; JUNG JONG SOO [KR]	G06F3/02; G06F3/00	AN APPARATUS FOR INPUT AND OUTPUT BRAILLE POINTS
AT417338T	EP20030425531 20030804	MOTOROLA INC [US]	G08B6/00 ; B06B1/02	VORRICHTUNG UND VERFAHREN ZUR ERZEUGUNG EINES HAPTISCHEN SIGNALS
US2008287167	US20070696466 20070404	MOTOROLA INC [US]	H04M1/00; G08B6/00 ; H05K5/02	A portable electronic device (100) includes a controllable skin texture surface (104) and control logic (200) that is operative to change a tactile configuration of at least a portion of the controllable skin texture surface.
US2008280266	US20080115302 20080505; US20040711427 20040917	MURPHY PATRICK [US] ; CONARD TODD [US]	G09B21/00	An electromechanical Braille cell assembly includes a plurality of parallel bimorph reeds.
JP2008285965	JP20070134440 20070521	NAKA KOGYO KK	E04F11/18	PROBLEM TO BE SOLVED: To easily and firmly fit a plate having an information display section like braille to an existing handrail in a stepless state. - SOLUTION: The handrail comprises a handrail structural body 10 having the information display sectio
EP1973088	WO2005JP22921 20051214	NAKAMURA SANGYO GAKUEN [JP]	G08G1/095	An LED road traffic signal light equipped with symbol patterning by chromaticity where a color -blind person can distinguish between red and yellow LED signal lights even at a predetermined distance without

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				causing entire mixture discolouring.
CN201131850Y	CN20072184949U 20071220	NAN WU [CN]	A61F9/08 ; A61H3/06	The utility model relates to a water detector for blind people, in particular to a water detector convenient for detecting the depth of water for the blind people, and belongs to the daily necessities.
KR100847288B	KR20070025848 20070316	NARU TECHNOLOGY CO LTD [KR]	G06K17/00; A61F9/08 ; G06F19/00; G06K7/08	PATH GUIDE SYSTEM FOR EYE SIGHT DISABLIST AND METHOD OF THE SAME
JP2008149506	JP20060337948 20061215	NEC COMPUTERTECHNO LTD	B41J3/32 ; B41J3/407; B41M1/30; B41M3/06; G09B21/00; G09B21/02	PROBLEM TO BE SOLVED: To provide a process for manufacturing a braille protrusion by printing colored UV ink on a material, irradiating the UV ink with UV rays and curing the UV ink in which a fully colored braille protrusion can be formed by repeatin
BRPI0700715	BR2007PI00715 20070206	NEVES WALDOLATO HELDER AUGUSTO [BR]	G09B21/02	MONITOR DE ANAGLIPTOGRAFIA. O monitor de anagliptografia para os cegos lerem, com dispositivo de saída de dados, exibidos em pontos salientes, usado para tatearem as informações de textos gerados por computador.
GB2447219	GB20070004265 20070306	NICHOLS HENRY ALBERT [GB]	A47K5/00; A47K5/06; A47K5/122; B65D35/00; B65D35/24; G01F11/40	A toothpaste dispensing device has a hollow body defining a chamber into which toothpaste can be squeezed when the dispenser is attached to a toothpaste tube.
JP2008183248	JP20070020117 20070130	NIDEK KK	A61F9/08 ; A61F2/14 ; A61F9/007; A61N1/372	PROBLEM TO BE SOLVED: To provide an apparatus that restricts influences on a living body even when any lead wire connecting separately installed units has been infiltrated. - SOLUTION: The apparatus comprises an external device equipped with a transmitter

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JP2008161230	JP20060350771 20061227	NIDEK KK	A61F9/007; A61F2/14	PROBLEM TO BE SOLVED: To provide a visual recovery assisting apparatus which stably gives an electrical stimulation to optic nerve fibers efficiently for a long period of time. - SOLUTION: The visual recovery assisting apparatus for recovery of the patien
KR20080099795	JP20070125277 20070510	NIDEK KK [JP]	G02B1/12; B29D11/02 ; G02B1/00	DYES METHOD AND APPARATUS OF LENS
JP2008158656	JP20060344472 20061221	NIPPON EKOROJII KK	G06F3/023; G09B21/00; G09B21/04 ; H03M11/08; H04M11/00	PROBLEM TO BE SOLVED: To provide a communication terminal device that both handicapped people, especially visually/hearing-disabled people, and other people can carry easily and use for easy and accurate communication. - SOLUTION: The communication termin
JP2008252703	JP20070093597 20070330	NIPPON ELECTRIC CO	H04M1/02; G09B21/00	PROBLEM TO BE SOLVED: To provide a mobile phone for a visually -impaired person improved in convenience for the visually -impaired person. - SOLUTION: One of four corners of a mobile phone is formed differently from the others (different shape corne
JP2008273717	JP20070121675 20070502	NIPPON FILM KK	B65F1/00; B65D33/00	PROBLEM TO BE SOLVED: To provide a garbage bag enabling a visually handicapped person to discriminate the kind of the garbage bag by embossing Braille characters based on the nationally well known Japanese Industrial Standards on the outer surface of th
JP2008259638	JP20070104187 20070411	NIPPON SIGNAL CO LTD	A61H3/06 ; G06K17/00	PROBLEM TO BE SOLVED: To provide a radio tag reader which is applied to a guide system capable of easily and reliably providing useful information to a visually disabled person, etc., by using a radio tag.
WO2008151642	WO2007EP05168 20070612	NOKIA CORP [FI]; RADIVOJEVIC ZORAN [FI]; A UUSITALO MIKKO [FI]	A43B3/00; A43B17/00; A61B5/103; A63B69/00; G06F3/01; G06F13/00; G08B6/00 ;	A shoe insole (101,102) is provided with skin transducers (131,132,133) that are coupled to a controller which in turn receives suggestive activation signals via a wireless receiver (127).

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			G09B19/00	
DE102007016912	DE200710016912 20070410	OFFIS E V [DE]	G01C21/04; A61F9/08	The system (10) has a signal transmitter unit (22) for outputting orientation information for guiding a person. The transmitter unit has multiple signal transmitters (24) that are attachable on the person around a longitudinal axis of the person body
JP2008203920	JP20070035930 20070216	OKI ELECTRIC IND CO LTD	G06F3/02; G07D9/00	INFORMATION INPUT DEVICE AND CUSTOMER OPERATION EQUIPMENT
CN101320500	US20070939946P 20070524	OPTIMAL INNOVATIONS INC [BB]	G08B5/36; G05B19/04; G08B3/10; G08B6/00 ; G08B7/06; H01R13/66	Devices, systems and methods that are capable of dynamically indicating emergency evacuation routes in a premises. In the premises, utility outlets such as electrical sockets and light switches are used to indicate, visually and/or audibly, an evacuation
JP2008280720	JP20070125188 20070510	OSADA GIKEN CO LTD; OSADA HIDEHARU	E01F9/06	PROBLEM TO BE SOLVED: To provide a laminated sheet which enables a sufficiently accurate guide even in the dark by inexpensive and easy construction, whereby a guide block for visually - impaired people which is laid on a railroad station, a subway yard
WO2008108525	KR20070022872 20070308	PARK KYONG JIN [KR]	A61F2/14	Disclosed is an intraocular lens assembly provided inside a capsular sac. The intraocular lens assembly according to one embodiment of the present invention includes an intraocular lens and an intraocular lens supporter, and therefore the intraocular lens
KR100843454B	KR20070022870 20070308	PARK KYUNG JIN [KR]	A61F2/14 ; A61F2/16	SUPPORTER FOR INTRAOCULAR LENS
US2008251110	US20080045076 20080310; US20070907632P 20070412	PEDE GIUSEPPE [CA]	A61H3/06 ; G01C21/00	A walking aid for assisting a visually disabled user is provided. The walking aid consists of an elongated housing having a handle at one end and a distal end opposite the handle.

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US2008234816	GB20050017400 20050825; WO2006GB50260 20060825	PEDE GIUSEPPE [CA]	A61F2/16; A61F2/02; A61F2/14	There is described a novel orbital implant having a smooth but macroporous outer surface, the said implant containing an integral resorbable platform for guided ocular muscle re-attachment.
CN101306207	CN20071106915 20070514; CN20071129136 20070713	PEKING UNIVERSITY THIRD HOSPIT [CN]	A61L27/38; A61F2/14 ; A61L27/36	The invention discloses a tissue engineering cornea epithelial transplantation membrane, a preparing method and an application thereof. The invention aims to provide a tissue engineering cornea epithelial transplantation membrane.
BRPI0516711	US20040624304P 20041103; WO2005US40126 20051103	PEN ONE INC [US]	G06K9/00	DISPOSITIVO GUIA DE DEDO PARA MONTAGEM EM ALINHAMENTO COM UM SENSOR DE IMPRESSãO DIGITAL E DISPOSITIVO GUIA DE DEDO PARA POSICIONAR UM DEDO EM UM ESCANER DE IMPRESSãO DIGITAL.
US2008269892	US20080169886 20080709; US20030728066 20031203	PERRY ARTHUR C [US]	A61F2/14	A coating for an orbital implant where the coating has an anterior portion having a different, longer term bioabsorbability than a posterior portion. This allows the implant to have a smooth surface for insertion and to provide reduced irritation to neigh
WO2008115581	US20070726052 20070321	PERRY ARTHUR C [US]	A61F2/14	A coating for an orbital implant has an anterior portion having a different bioabsorbability than a posterior portion. This allows the implant to have an insertion surface, to reduce irritation, to prevent implant exposure, and to anchor muscles.
NL1033239C	NL20071033239 20070116	PETERS PETRUS HUBERTUS [NL]	A61F9/08 ; G09B21/00	Nieuwe aanpassingen tast-grijphulp met objectinformatie voor blinde mensen.
EP1997530	EP20000915953 20000301; US19990260571 19990302	PEYMAN GHOLAM ALI [US]	A61N5/06; A61F2/14 ; A61F9/011	This invention is a method for modifying the curvature of a live cornea (12) to correct a patient's vision. First, at least one relatively small opening is made in the cornea for inserting a fiber optic cable or mirco-cutting tool therein to create a pock
CN201147412Y	CN20082000526U 20080116	PING ZHOU [CN]	A61F9/08	The utility model relates to a blind guiding uniform. The voice blind guiding uniform comprises a transmitter for transmitting wireless signals, a receiver for receiving wireless signals, a digital signal processor, audio equipment and a power supply

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RU2329019	RU20060144511 20061214	PIVOVAROV NIKOLAJ NIKOLAEVICH [RU]; AGAFONOVA VIKTORIJA VENIAMINOV [RU]; VNUKOVA MARINA NIKOLAEVNA [RU]	A61F9/007; A61F2/14	FIELD: medicine; ophthalmology. ^ SUBSTANCE: implant is shaped as open ring with eyelet by ends, thus ring thickness is gradually centre to rim decreased, trapeze-shaped in cross-section.
WO2008146247	IL20070183497 20070529	POLAD ALON [IL]		A device for holding a pair of socks together, through their washing and drying process, comprises a generally circular disk with means for holding a pair of socks and means for hanging the device from a clothesline.
US2008288063	US20060911948 20060418; US20050108505 20050418; WO2006US14425 20060418	PRICE JR FRANCIS W [US]	A61F2/14	An implant (20) for reshaping a cornea (30) includes a peripheral supporting ring structure (22), a plurality of filaments (26), and an inlay (24).
DE202008013220U	DE200820013220U 20081004	PTS GMBH [DE]	A61F11/08; G04B25/04 ; G04G13/02; G04G15/00; G08B7/06; G08B21/02	Gehörschutz-Vorrichtung mit Alarmfunktion
WO2008083118	US20060871867P 20061226	QLT PLUG DELIVERY INC [US]; DE JUAN JR EUGENE [US]; BOYD STEPHEN [US]; REICH CARY [US]	A61F2/14 ; A61B18/18; A61M31/00; A61M35/00	An implant for use with an eye comprises an implantable structure and a therapeutic agent. The therapeutic agent is deliverable from the structure into the eye so as to therapeutically effect and/or stabilize a refractive property of the eye.
JP2008250622	JP20070090382 20070330	RAILWAY TECHNICAL RES INST	G06K17/00; G06K19/00; G06K19/07; G09B21/00	PROBLEM TO BE SOLVED: To provide a debugging device for evaluating embedded IC tag information in a textured paving block guiding system for a visually impaired person. - SOLUTION: This debugging system of textured paving block location information with
CN201079488Y	CN20072104755U 20070629	RAN SUN [CN]	A61F9/08 ; A61H3/06	Portable intelligent blindness-aiding device

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US7416560	US20000589626 20000607; US19990138105P 19990607	REFOCUS OCULAR INC [US]	A61F2/14 ; A61F9/013	Presbyopia may be treated by implanting a scleral prosthesis within a plurality of elongated pockets formed in the tissue of the sclera of the eye. The implanted prosthesis exerts traction on the sclera in the region overlying the ciliary body which expan
US2008161915	US20060618171 20061229	REN QIUSHI [CN]	A61F2/14	A system for generating visual images includes an artificial eye that is surgically implanted within a patient's orbit. Also, the system includes a micro-camera that is mounted to the artificial eye for capturing visual input.
AT416724T	DE19991021398 19990507; DE19991031083 19990706	RETINA IMPLANT AG [DE]	A61F2/14	RETINA-IMPLANTAT UND VERFAHREN ZUR HERSTELLUNG EINES SOLCHEN
EP1989585	WO2007US62434 20070220; US20060776458P 20060224; US20060554544 20061030	REVISION OPTICS INC [US]	G02C7/04; A61F2/14	SMALL DIAMETER INLAYS
US2008260201	US20070877450 20071023; US20070622202 20070111; US20050060919 20050217; US20010842282 20010424	RHOADS GEOFFREY B [US] ; BRUNDAGE TRENT J [US]	G06K9/00; G06T1/00; G07D7/12; G07D7/16	The present invention relates to various digital watermarking methods and systems. In one embodiment, monetary objects can be watermarked to signify currency denomination information.
CN201106800Y	CN20072128550U 20070928	RIMING SCIENCE & TECHNOLOGY CO [CN]	F21S10/06; F21V23/00; F21V33/00	The utility model relates to an improved indicating light structure, which belongs to the electromechanical class, and comprises a main body, a control circuit and a signal judgment panel, wherein, a holding space is arranged in the main body.
US2008314229	US20070765975 20070620	ROBLEDO DEVRA L [US]	G09B15/02	A music notation display system that adds distinguishable timing bars to standard music notation assists students learning to read music and assists musicians to correctly play rhythms in music.

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CN201154055Y	CN20072016509U 20071210	RUI GUO [CN]	A61H3/06	The utility model provides a crutch for the blind, which relates to the improvement on the crutch structure. The utility model aims to provide a crutch for the blind, which can be pushed to walk and can find path as well as emit sound to draw the attention.
US2008212145	KR20070015591 20070214	SAMSUNG ELECTRONICS CO LTD [KR]	H04N1/00	An image forming method of an image forming apparatus includes generating voice data based on image data, which will be transmitted, if a voice attaching signal is input, and transmitting at least one of the image data and the voice data to an external
HK1087979	US20030445762 20030527; WO2004US16753 20040527	SARFARAZI FAEZEH M [US]	B29D11/02	Mold for intraocular lens
DE102007027630	DE200710027630 20070612	SCHMITZ CHRISTOPH [DE]	G10G1/02; G09B15/02	The cover has marks (31, 32) provided or designed such that a plug-in module (30) with marks is insertable in the cover or between the cover and a finger-board of necks.
GB2446651	GB20070003042 20070216	SEAL JONATHAN [GB]	H04M1/725; G06F1/16; G06F3/048; H04M1/02; H04M1/247	A scalable menu for mobile communication devices that enables a varying number of options to be presented on a touch-screen at any one time, depending on the visual and motor-skill abilities of the user.
AU2008203817	AU20050200113 20050112; AU20080203817 20080812; AU20000038671 20000303	SECOND SIGHT MEDICAL PROD INC	A61F2/14	Logarithmic light intensifier for use with photoreceptor-based implanted retinal prosthetics and those prosthetics
EP1937358	WO2006US36501 20060918; US20050718096P 20050916	SECOND SIGHT MEDICAL PROD INC [US]	A61N1/36; A61F2/14 ; A61F9/08 ; A61N1/05	DOWNLOADABLE FILTERS FOR A VISUAL PROSTHESIS

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WO2008095101	US20070898777P 20070131	SECOND SIGHT MEDICAL PROD INC [US]; GREENBERG ROBERT J [US]; ROY ARUP [US]; CASPL AVRAHAM L [US]; MCMAHON MATTHEW J [US]	A61N1/05; A61N1/36	A visual prosthesis apparatus including a video capture device for capturing a video image, a video processing unit associated with the video capture device, the video processing unit configured to convert the video image to stimulation patterns,
WO2008079171	US20060876645P 20061222; WO2007US13918 20070614	SECOND SIGHT MEDICAL PROD INC [US]; MCCLURE KELLY H [US]; CASTRO RICHARD AGUSTIN [US]; GAIKWAD SANJAY [US]; CHANG DA-YU [US]; LOFTIN SCOTT M [US]; DAI RONGQING [US]; GREENBERG ROBERT J [US]	A61N1/36	A visor for retinal stimulation of visually impaired subjects is shown. The visor comprises a frame, an external coil, a camera and a mounting system. A connector allows the external coil to be positioned along a first direction.
JP2008149683	JP20060342832 20061220	SEIKO EPSON CORP	B41J3/36; B41J3/32 ; G09B21/02	PROBLEM TO BE SOLVED: To provide a Braille information processor which arranges a Braille pattern in a constant-length region of a set tape. - SOLUTION: The Braille information processor includes a first-grade Braille generating means which genera
JP2008149682	JP20060342831 20061220	SEIKO EPSON CORP	B41J3/32 ; G09B21/02	PROBLEM TO BE SOLVED: To provide a Braille information processor which can properly use a first-grade Braille and a second-grade Braille . - SOLUTION: The Braille information processor includes a Braille pattern conversion means which converts in
US2008303645	US20070760758 20070609	SEYMOUR ERIC TAYLOR [US] ; HUDSON REGINALD DEAN [US]	G09B21/02	Methods and apparatuses to provide improved Braille support are described herein. A connection to a Braille device is received, and a Braille caption panel that includes a Braille code is displayed to simulate an output to the Braille device.
US2008177383	US20070626774 20070124	SHAHINPOOR MOHSEN [US] ; SOLTANPOUR DAVID [US]	A61F2/14	The present invention includes an ophthalmic device and system of mounting for correcting hyperopia and presbyopia.
CN101335771	CN20071043361 20070629	SHANGHAI BUSINESS AND INFORMAT [CN]	H04M1/02	The invention relates to a mobile phone, specifically to a mobile phone for the blind. A novel mobile phone, includes mobile phone body; keys provided on the mobile phone body, which are provided with Braille

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				in concavo-convex mode.
CN201114280Y	CN20072072077U 20070629	SHANGHAI BUSINESS AND INFORMAT [CN]	H04M1/247	The utility model relates to a mobile phone, in particular to a mobile phone for blind people. The mobile phone comprises a mobile phone body which is provided with keys, and is characterized in that: the keys are provided with concavo convex braille.
CN201139356Y	CN20072199338U 20071217	SHANGHAI EDUCATION SCIENCE ACA [CN]	A47G19/22	The utility model relates to a water cup, which discloses a water cup for a blind person and comprises a cup body and an overflow alarm device, wherein, the overflow alarm device comprises a sensor module, a signal processing module and an alarm module;
CN201091018Y	CN20072199397U 20071218	SHANGHAI FENGDA CRAFTWORK CO L [CN]	G09B21/00	Digital character special for blind men
CN201142979Y	CN20072077257U 20071226	SHANGHAI NANHUI DISTR HUINAN T [CN]	A45B3/00; A61F9/08 ; A61H3/06	The utility model discloses a multi-functional security crutch which relates to the field of appliances of daily life and comprises a crutch, a sensor, a sounder and an umbrella.
CN101332140	CN20071043318 20070629	SHANGHAI QIYI HIGH SCHOOL [CN]	A61F9/08 ; A61H3/06	A walking stick of the blind provided with a radiation-detection device comprises a walking stick body, the radiation-detection device arranged in the walking stick.
CN101315542	CN20081039859 20080630	SHANGHAI XUCANLIANG SCIENCE & [CN]	G04B47/00; G04B25/00; G04B25/02 ; G04C3/00; G04C19/00; G04C21/00; G04C23/00	The invention provides a multifunctional digital clock which belongs to the electronic apparatus field and is mainly applied to clock aspect. The digital clock comprises a music control interface which is arranged on the surface of a body.
CN201123889Y	CN20072300279U 20071221	SHANSHAN ZHU [CN]	A61H3/06 ; A61F9/08	The utility model relates to a crutch for the blind, comprising a crutch body.

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JP2008148861	JP20060338814 20061215	SHIBA RYOICHI	A63F9/04	PROBLEM TO BE SOLVED: To provide a polyhedron dice for games which enables play of a game for a baby, a child, a blind person, a deaf-mute, an agnosia patient, etc. to perform number calculation and memorization and can effectively function also in rehabilitation through the game. ; SOLUTION: The game can be played in which one figure as well as at least one of braille corresponding to the figure and a sign language figure are displayed on each of the surfaces of a hollow polyhedron, a solid small piece is enclosed in the internal space of the polyhedron, a figure displayed on one surface defined beforehand in the polyhedron in case the solid small piece collides with the internal wall surface of the polyhedron by throwing out the polyhedron on the level surface, rolls while emitting a sound, and ceases to sound simultaneously with the rolling suspension of the polyhedron is read through figure display, braille display or sign language figure display, and the number calculation and the memorization are perfor
CN201098222Y	CN20072175967U 20070914	SHICHUN ZHAO [CN]	A61F2/14	The utility model relates to an artificial eye with a hard front part and a soft back part for replacing an extirpated eye. The front of the artificial eye adopts the crystal porcelain hard material.
US2008171308	KR20030070681 20031010; WO2004KR02542 20041005	SHIN HYUN-OH [KR]	G06F3/00; G09B21/00	The present invention relates to a display device of braille points. In the device, a coating layer 40 is formed on the upper surface of a receiving holes 120 , a recognition stick 130 is installed in the hole 120 and has a metal plate 130.
MD3643F	MD20060000270 20061204	SIRBU STEPAN [MD]	A61H5/00	The invention refers to the field of medicine, in particular to ophthalmology and can be used for prophylaxis and recovery of vision to patients of different age groups suffering from myopia, hypermetropia and astigmatism.
FR2916325	FR20070003579 20070521	SITIC HOLDING S A [CH]	A45B1/00	The device (1) has a fixation system (5) fixed to a support e.g. wall of a building, and a wire (12) connecting a part of the device and a fixation element (13).

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CN101336541	US20050742915P 20051207	SONY ERICSSON MOBILE COMM AB [SE]	H04M1/23; G06F3/00; G08B6/00 ; H04M1/02; H04M1/725; H04M19/04	The invention discloses a method and apparatus for providing tactile event notification for an electronic apparatus. When an event is detected in the electronic apparatus, a portion of the electronic apparatus is displaced in response to the event.
EP1958423	WO2006EP05415 20060607; US20050742915P 20051207; US20060366603 20060303	SONY ERICSSON MOBILE COMM AB [SE]	H04M1/23; G06F3/00; G08B6/00 ; H04M1/02; H04M1/725; H04M19/04	PERSISTENT TACTILE EVENT NOTIFICATION
JP2008272373	JP20070122689 20070507	SONY ERICSSON MOBILE COMM JP	A61H3/06	PROBLEM TO BE SOLVED: To allow the visually - impaired to move at ease in a location where he/she has gone and easily charge batteries equipped in a walking aid stick. - SOLUTION: This charging system of the walking aid stick consists of a battery charg
DE202008008386U	DE200820008386U 20080623	SPRINGHART VOLKER [DE]	A45B3/00; A45B9/02; A61G5/10; A61H3/06	Führhilfe für blinde Nordic Walker
CN201161003Y	CN20072059689U 20071116	SUMMIT GD BIOTECH LTD [CN]	A61L27/36; A61F2/14	The utility model provides an ocular surface biological film which is an animal film that is prepared by using pericardium, goldbeater's skin, and caul fat as raw material and through the processes of degreasing, cell free, multiaspect antigen elimination
AT408432T	EP20040256764 20041102; US20040623853P 20041102	SYDNEY BIOTECH PTY LTD [AU]	A61N1/36; A61F9/08	EXTRAOKULARE VORRICHTUNG
CN101281389	CN20071092231 20070402	TAIHE YANG [CN]	G04B25/02 ; A61L9/00; G04C23/26; G04G1/00; G04G15/00	The invention provides a timed emission device capable of smelling odor, the traditional timing device takes hearing and sight as time interface; the invention firstly takes odor capable of being smelled as the accessorial time interface;

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JP2008295989	JP20070169735 20070531	TAKEI HIROSHI	A47G29/00; A45B1/04; A47G25/12	In this holder, an adhesive mat is fitted to any part of the holder used for the walking stick or the umbrella. The adhesive mat is fitted to any part of the holder mounted on a part of a shaft of the walking stick.
CN201123871Y	CN20072016240U 20071128	TAO LI [CN]	A61F9/08 ; A61H3/06	The utility model belongs to a blindman walking stick, in particular relating to an intelligent blindman walking stick.
US2008243624	US20080059025 20080331; US20070920749P 20070329	TAYLANNAS INC [US]	G06Q50/00; G06F3/048	An electronic talking menu system for the visually impaired includes a battery powered portable electronic, audio output device having large back-lighted buttons corresponding to menu items.
EP2005412	WO2007US07232 20070322; US20060785327P 20060322	TENEBRAEX CORP [US]	G09G5/02	TECHNIQUE FOR ENABLING COLOR BLIND PERSONS TO DISTINGUISH BETWEEN VARIOUS COLORS
JP2008289924	JP20080211183 20080819	TNK KK	A45B3/00; A61H3/06 ; G09B21/00	The color discriminating stick incorporates a color discriminating sensor 20 in a tip. By use of the color discriminating sensor 20, white light is radiated on the road 100, and reflected light from a line 110 drawn on the road 100 is received to be color-decomposed to be detected. A control circuit 30 discriminates the color of the line 110 drawn on the road 100 based on the output of the color discriminating sensor 20. In a case where the discriminated color is a preliminarily set color, an alarm 40 is controlled to operate in a mode for the color to be informed to the user.
JP2008194422	JP20070062537 20070213	TNK KK	A61F9/08 ; A62B3/00; G08B17/00	EVACUATION GUIDE SYSTEM, GUIDE DEVICE AND GUIDE DEVICE FOR VISUALLY HANDICAPPED PERSON
JP2008303631	JP20070152478 20070608	TOA CORP	E01F9/00	PROBLEM TO BE SOLVED: To enable a visually impaired person to surely recognize a guide device. - SOLUTION: A plurality of struts 2 is arranged in a row at intervals along a pathway. Each of the struts includes an LED 4 which emits light toward the pathw

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JP2008252176	JP20070087193 20070329	TOSHIBA CORP	H04N7/32; H03M7/40	PROBLEM TO BE SOLVED: To provide a motion picture encoder which can suppress visual impairment of a prediction image even when the quantization step is coarse. - SOLUTION: The motion picture encoder comprises a first calculation section 113 for calculat
JP2008272131	JP20070117857 20070427	TOSHIBA CORP; TOSHIBA MEDICAL SYS CORP; TOSHIBA MEDICAL SYS CO LTD	A61B6/04	PROBLEM TO BE SOLVED: To securely transmit necessary instructions with no voices to a subject with visual or hearing impairment during X-ray photographing. - SOLUTION: A vibration motor 6 is provided at each of handles 32L and 32R installed on both th
JP2008212359	JP20070053282 20070302	TOYOTA MOTOR CORP	A61B3/113	PROBLEM TO BE SOLVED: To provide a visual axis detector which prevents misdetection of visual axis direction even if a driver has an impairment in the eyes. - SOLUTION: The sight line detector 10 includes detecting means 11 and 12 for detecting visual axi
US2008183288	US20080060811 20080401; US20000564525 20000504	TYLER THOMAS D [US]	A61F2/14 ; A61F9/007; A61F2/84; A61F9/00	A device and method of use thereof for incrementally adjusting the size and/or shape of a particular body part is provided. The device comprises first and second layers each formed of a synthetic resin. The first layer is formed of a heat-shrinkab
KR100861094B	KR20080071145 20080722	UBIZCORE CO LTD [KR]	H04Q7/24; A61F9/08 ; G08G1/042	METHOD AND SYSTEM FOR ANNOUNCE DISABLED PERSONS CAPABLE LOCATION TRACKING SERVICE
WO2008106605	US20070891978P 20070228	UNIV COLORADO [US]; OLSON JEFFREY [US]	A61K33/30 - (A3) A61F2/14	An improved method for stimulating electrical activity in an eye is provided. The invention provides a technique for implanting small, nanometer-sized photoactive devices into an eye
CN101261775	CN20081047306 20080414	UNIV HUAZHONG SCIENCE TECH [CN]	G09B21/00; G06F15/02	The invention provides a braille display and comprises a contact layer and a circuit layer which are mutually connected; wherein the contact layer consists of a substrate and braille contacts which is composed of two-way memory alloy slice

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CN101261555	CN20081047305 20080414	UNIV HUAZHONG SCIENCE TECH [CN]	G06F3/041; G06F3/033	The invention discloses a computer Braille handwriting pad, comprising a main board 1, an electronic blind pen 2 and a data cable 3, the main board 1 comprises a cover plate 4 with a plurality of Braille point through holes
PT1523294E	FR20020009132 20020718	UNIV LILLE SCIENCES TECH [FR]	A61F9/007; A61F9/08 ; A61F9/008; A61N5/06	APPARATUS FOR TREATING AGE-RELATED MACULOPATHY (ARM)
JP2008149028	JP20060341894 20061219	UNIV OSAKA	A61F9/08 ; A61F9/007; A61N2/00	PROBLEM TO BE SOLVED: To allow a severely visually disabled person to recognize visual information of an external world without using a surgery means. - SOLUTION: A device for generating magnetic stimulation pattern
US2008278682	US20060794883 20060106; US20050641589P 20050106; US20050647619P 20050126; US20050665909P 20050328; WO2006US00655 20060106	UNIV ROCHESTER [US]	A61B3/024; A61B3/00; A61B3/113; A61H5/00	A system and method for retraining the visual system of a subject with damage to the striate and/or extrastriate visual cortex includes displaying a visual stimulus within a first location of an impaired visual field of the subject
CN101284159	CN20081038196 20080529	UNIV SHANGHAI JIAOTONG [CN]	A61N1/05; A61F2/14 ; A61F9/00; A61L27/00	The invention relates to a making method of a metal micro-wire electrode array used for optic nerve stimulation. The method comprises the following steps: in step one, insulating layers at the two ends of a metal wire are stripped
CN101239008	CN20081034286 20080306	UNIV SHANGHAI JIAOTONG [CN]	A61F2/14 ; A61F9/00; A61N1/05; A61N1/36; G06K9/36; G06T1/20	The invention relates to a visual false body image processing device and the method, belonging to the field of biological engineering. In the invention, an image collecting module is a CMOS digital image sensor

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WO2008129259	GB20070007461 20070418	UNIV SUNDERLAND [GB]; CASSIDY BRENDAN MICHAEL [GB]; COCKTON GILBERT [GB]	G09B21/00; G07F7/00; G07F17/00; G07F19/00	A method and apparatus for providing information to an operator of a device, such as a currency dispensing machine, is disclosed. The apparatus includes a surface, for example a keypad, that is touched by an operator.
WO2008134616	US20070914413P 20070427	UNIV TEXAS [US]; SPONSEL WILLIAM ERIC [US]	A61F2/16; A61F2/14 ; A61K31/715; A61K31/737	USE OF INTRAVITREAL VISCOSURGICAL INJECTION AGENTS FOR REPAIR OF RHEGMATOGENOUS (BULLOUS) RETINAL DETACHMENT
CN201147114Y	CN20072308998U 20071229	UNIV TIANJIN POLYTECHNIC [CN]	A47G19/22	A multifunctional cup specially used for blind persons belongs to the cup, and comprises a cup bottom 1 and a cup body 2; the multifunctional cup is characterized in that the cup body 2 is provided with a radio receiving switch 13
EP1981437	WO2007US01932 20070125; US20060762452P 20060126; US20060788221P 20060331; US20060865045P 20061109	UNIV WAKE FOREST HEALTH [US]	A61F2/14	MEDICAL TOOLS FOR FACILITATING DEEP LAMELLAR ENDOTHELIAL KERATOPLASTY AND RELATED METHODS
BRPI0515104	US20040609038P 20040909; WO2005US32462 20050909	UNIV WASHINGTON [US]	C12N9/02	MéTODO PARA PRODUZIR TODO-TRANS-(13,14)-DIIDRORRETINOL, POLIPEPTìDEO ISOLADO, POLINUCLEOTìDEO ISOLADO, CONSTRUçãO DE EXPRESSãO, CéLULA PROCARIóTICA OU EUCARIóTICA CULTIVADA, VETOR, CéLULA HOSPEDEIRA ISOLADA, MéTODO PARA PRODUZIR UM POLIPEPTìDEO RETSAT
WO2008109867	US20070893574P 20070307	UNIV WASHINGTON [US]; AMIRPARVIZ BABAK [US]; HO HARVEY [US]; SAEEDI EHSAN [US]	A61F2/14 - (A3) A61F2/02; G02C7/04	An active contact lens system (100) and method for fabricating an active contact lens (200) are disclosed.
AT504719	AT20060002102 20061220	UNIV WIEN TECH [AT]	A61F9/08	TAKTILES DISPLAY

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JP2008175836	JP20050085533 20050324; JP20060076487 20060320	UNIV YAMAGUCHI	G09B21/00	BRAILLE READING SENSOR EQUIPPED WITH BRAILLE READING SENSOR
JP2008175835	JP20060038975 20060216	UNIV YAMAGUCHI	G09B21/00; G06F3/01	BRAILLE READER EQUIPPED WITH TACTILE SENSING MECHANISM
CN101239014	CN20081059547 20080131	UNIV ZHEJIANG [CN]	A61F9/08 ; A61H3/06 ; G08G1/005	The invention relates to a traffic guiding system for assisting blind person to pass the intersection, as the prior sound hint system has bad guiding effect.
CN101261767	CN20081060459 20080411	UNIV ZHEJIANG [CN]	G08G1/00; A61F9/08 ; G08G1/005; G08G1/09	The invention discloses an intelligent traffic control system for the blind and a method thereof.
CN101249027	CN20081060006 20080229	UNIV ZHEJIANG [CN]	A61F2/14 ; A61F2/00; A61F9/00; B25J19/00	The invention discloses a bionic eye structure based on flexible parallel drive mechanism, which comprises a bionic eyeball, an embedded CMOS image sensor, and six groups of bionic eye muscles each having an artificial pneumatic muscle and tendons
US2008289669	TW20070208463U 20070524	VALENTINE INTERNAT LTD	A45B1/00	A cane is disclosed that includes a handle having a lower protrusion; a shaft having a top projection matingly secured to a bottom recess of the protrusion; and a sleeve adapted to securely put on the protrusion.
US2008283584	FI20040005404 20041026; FI20050005455 20050829; WO2005FI50380 20051026	VALTION TEKNILLINEN [FI]	G06K7/10; G06Q30/00	The invention is especially intended for visually impaired persons who are not able to read text printed on products or product containers. With the invented method at least a part of a product description, which corresponds to a bar code read
WO2009002218	RU20070122577 20070618	VASIN MAXIM ALEXEEVICH [RU]	A63B24/00; A63B71/06; G08B6/00	The invention relates to training and can be used for learning and/or developing movement skill, fixing dynamic stereotypes and for training movement coordination.
USD578159S	US20080303622F 20080213	VISA USA INC [US]		Braille financial transaction card

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US2008189995	US20070690339 20070323; US20050245808 20051005; US19990233397 19990119	VOLUSIA HOLDINGS CORP THE [US]	F16L1/00; G09F3/08; A63B21/055; A63B23/03; G09F3/00; G09F3/20; G09F7/02; G09F7/16; G09F7/18; G09F7/20	A pipe or conduit labeler includes a saddle leg having an inside diameter equal to or slightly smaller than an outside diameter of a pipe or conduit to be labeled. The saddle leg is molded to a saddle stem which in turn is molded to a sign plate.
JP2008163504	JP20060352677 20061227	WAKABAKAI DAIGEN GANKA	A41G5/02; A61F2/14 ; A61F9/007	PROBLEM TO BE SOLVED: To provide an eye decorating member to be attached to the lacrimal point of the eye. - SOLUTION: This eye decorating member includes a lacrimal point plug 2, and a decoration member 3 attached to the back end of the lacrimal point
CN101286274	CN20081099424 20080508	WEIHONG LI [CN]	G09B5/04	The invention relates to a digital video automatic explaining system used for the blind, comprising two parts: a vision-audio conversion information databank and a playing control unit.
CN201131878Y	CN20072184869U 20071218	WENDI LU [CN]	A61H3/06	The utility model discloses a blindman walking stick, which relates to an improved structure of the blindman walking stick. The utility model provides the blindman walking stick which has the advantages of convenient operation and reflecting function.
CN201139363Y	CN20082071289U 20080118	WENQI CAI [CN]	A47G19/22	The utility model relates to a water cup convenient for blind persons to drink water, which belongs to the technical field of living goods. A position of a cup bottom is provided with a warning device.
WO2008122818	GB20070006608 20070404; US20070922029P 20070405	WESTON PHILIP DOUGLAS [GB]	A61F2/14	There is disclosed a method of separating a posterior endothelial layer of a donor cornea having an epithelium, layers of stroma, a Descemet s membrane and an endothelium, after the donor cornea has been harvested from a cadaver.
US2008286025	US20070800401 20070504; US20060798117P 20060504	WRIGHT CHRISTOPHER B [US] ; WRIGHT III JOSEPH H [CA]	B41J3/36; B41J3/32	A mobile micro-printer delivers and prints incoming messages and text instantly and privately in hard copy on paper or pre-treated plastic and is compatible with cell phones and smart phones.

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US2008218540	US20070683011 20070307	XEROX CORP [US]	B41J25/308	Disclosed is an ink jet printing device including an ink jet print head and a print region surface toward which ink is jetted from the ink jet print head, wherein a height distance between the ink jet print head and the print region surface is adjustable.
CN201104954Y	CN20072087128U 20070920	XIANGFAN UNIVERSITY [CN]	A61F9/08 ; A61H3/06	The utility model provides an ultrasonic cane for the blind with phonic function, wherein, the ultrasonic wave receiving and controlling circuit and ultrasonic wave regulating and transmitting circuit are respectively connected with the two IO interfaces.
CN201114281Y	CN20072073702U 20070816	XIAOBING ZHAO [CN]	H04M1/247; H04M1/02	The utility model discloses a special telephone for blind people, wherein a loudspeaker (1), a braille pen (4) and a beeper (5) provided with a fixing seat support are arranged on the upper part of a panel (10) from left to right.
CN101323219	CN20081053380 20080602	XIAOWEN ZHANG [CN]	B41M3/16; B41M1/12; B41M7/00	The invention relates to a braille printing technology, comprising the following steps: professional braille typesetting, that is, the automation of letter input, compilation, typesetting, inspection, collation and even output of the braille.
CN201101767Y	CN20072195497U 20071105	XIN MIAO [CN]	A61M5/14; G08B21/00	The utility model relates to a device which can realize control through photoelectric effect, in particular to a light sensation minder for a liquid transfusion device. The minder comprises a photod arranged at one side of a liquid transfusion tube.
CN101290716	CN20081109725 20080531	XUN ZHOU [CN]	G08G1/095	The invention discloses a traffic light for normal vision persons and color -blind persons . The invention comprises a traffic light system directing traffic according to light colors. .
WO2008123090	JP20070072647 20070320	YAMANASHI TLO CO LTD [JP]; OKUZAKI HIDENORI [JP]; TAMAKI AKIO [JP]; KASUGA HISAO [JP]; SAIKI HISAMASA [JP]; ITO TAKAMICHI [JP]	F03G7/00; G09B21/00; H02N11/00	Provided is a polymeric actuator element (1), which acts in a (dry) gas or air, although practically difficult in the prior art, by using a polymeric film or fibers. Also provided is a braille display using the polymeric actuator element.
JP2008259882	JP20080198834 20080704	YAMAZAKI SETSUYA	A45B3/00; A61F9/08 ; A61H3/00; A61H3/06	WALKING CANE WITH PORTABLE NAVIGATION DEVICE FOR VISUALLY IMPAIRED PERSON

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CN201167636Y	CN20082054972U 20080122	YANGXING MIDDLE SCHOOL OF EAST [CN]	A45B3/00; A45B1/00	The utility model relates to an article for the disabled, in particular to a cane which can be used as a mountaineering auxiliary tool or by the aged. A multipurpose cane comprises a hook knob and a stick body.
CN201121293Y	CN20072140660U 20070320	YARONG GONG [CN]	E01C15/00	The utility model discloses a spray sand blind way touch inductor, relating to the field of road facilities.
JP2008201118	JP20070011548 20070122; JP20070168481 20070627	YASUHISA KOKI KK	B43K8/02	At the tip of the hollow brush holder (2) with a reservoir (R) inside to be filled with heat melting painting materials such as beeswax, a brush point (3) formed by bundling metal wires (9...) is installed. With the brush holder (2), a heater (6) to warm up the reservoir (R) and the brush point (3) to the temperature that can maintain the beeswax in the melting condition and a flowing outlet (4out) to supply the melted beeswax from the reservoir (R) to the brush point (3) are formed.
CN201147411Y	CN20072088493U 20071126	YI LI [CN]	A61F9/08 ; A61H3/06	The utility model relates to a walking stick for the blind, which vibrates when touching water.
CN201139689Y	CN20082010307U 20080117	YICHEN SHEN [CN]	A61F9/08 ; A61H3/06	The utility model relates to a water-suffering alarm blind-guide crutch, which comprises a crutch body and a knob, wherein, a longitudinal groove is inwards arranged at the bottom part of the crutch body.
CN201160919Y	CN20082005535U 20080305	YIFEI HUANG [CN]	A61F2/14 ; A61L27/28	The utility model relates to an artificial cornea device, in particular to a novel detachable artificial cornea which comprises a central optical part and a fixed part arranged at the periphery.
CN101211225	CN20061170442 20061227	YILI LUO [CN]	G06F3/023; G06F3/16; G10L13/00	The invention discloses a rapid positioning method and a device for the visually impaired , which matches the position of a keyboard with the position of the voice output text. .

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JP2008188391	JP20070053435 20070203	YOMO AYAKO	A61H3/06 ; A61F9/08 ; G01S17/93; G08G1/005	This detecting device for the visually-impaired which detects an obstacle in the advancing direction when the visually-impaired or the elderly is walking and notifies it to the user is an extremely small type portable device, is easily attached/detached and has safety and stability. This device is characterized in that the user can sense a distance to the obstacle and an object with a user-friendly sound and vibrations and discriminate it with the signals. This device can be provided in various forms such as eyeglasses, a hat, a broach, a shoe, a ring, and a bracelet.
CN201130446Y	CN20072159349U 20071211	YOURONG ZHAO [CN]	G09B21/02	The utility model discloses a writing pen for the blind, comprising a press head, a pen barrel, and a pen needle; wherein, an intracavity is arranged in the pen barrel; the pen needle is arranged in the intracavity.
CN201082218Y	CN20072087478U 20071010	YUANFENG HE [CN]	A61F9/08	Infrared barrier-testing walking stick for blindmen
CN201147112Y	CN20072186198U 20071227	YUANMING NING [CN]	A47G19/22	The utility model relates to a water cup, comprising a cup body and an electrode contact which is arranged at the position that is 1-2 cm away from a rim of the cup in the cup body.
KR100857578B	KR20070046784 20070514	YUJIN ROBOT CO LTD [KR]	B25J5/00; A61H3/06 ; B25J13/00	ASSISTANCE ROBOT FOR VISUALLY IMPAIRED
JP2008183434	US20010264179P 20010125; US20010283856P 20010413; US20010337343P 20011109; US20010020853 20011211; US20010020858 20011211; US20010017916 20011211;	ZADNO-AZIZI GHOLAM-REZA; ROGERS ERICA J; NGUYEN TUAN ANH; TING ALBERT C; PORTNEY VALDEMAR; PHAM HAI-MINH	A61F2/16; A61F9/007; B29D11/02	PROBLEM TO BE SOLVED: To provide a distance-adjustable intraocular lens for implanting in an eye with an optical axis. - SOLUTION: The intraocular lens by this invention has an anterior portion with an anterior viewing element and an anterior biasing element

Número de Publicação	Prioridade(s)	Depositante	Classificação Internacional	Título ou Resumo
DE102007019815	DE200710019815 20070426	ZEISS CARL MEDITEC AG [DE]	A61F9/007; A61F2/14 ; G06F19/00	Es wird beschrieben eine Planungseinrichtung zum Erzeugen von Steuerdaten für eine Behandlungsvorrichtung (1) zur Augenhornhaut-Transplantation, die mittels einer Lasereinrichtung (4) durch zumindest eine Schnittfläche in der Hornhaut ein zu entnehmendes
EP1980922	EP20070106079 20070412	ZENITH INTERNAT SA [CH]	G04B25/04	The timepiece has a discrete striking mechanism placed in a case, where the mechanism has an actuating unit driven by an energy source. The mechanism has a mobile ring (26) arranged in a wall of the case, and cooperating with the actuating unit.
CN201168117Y	CN20072032827U 20070921	ZHAOYUAN LIU [CN]	A61F9/08	The utility model relates to an intelligent blind avigraph and belongs to the field of the blind living goods, which consists of an MPU, a two-circuit ultrasonic transmitting and receiving cell, a GPS module, a voice module, a power supply unit.
EP1965733	WO2006CN03444 20061218; CN20051120794 20051220	ZHIGUANG GZ BIOTECH CO LTD [CN]	A61F2/14	BIOLOGICAL ARTIFICIAL CORNEA AND METHOD OF MAKING
CN201122957Y	CN20072128346U 20070731	ZHONGHE SHEN [CN]	H04B1/38; H04B5/02	The utility model relates to a voice object searching responder for a blind man. The voice object searching responder is composed of a remote voice recognition code transmitting main machine and 1 to 12 independent receiving and responding sub-machines.
WO2008131639	CN20071027698 20070425	ZHONGSHAN OPHTHALMIC CT SUN YA [CN]; WANG ZHICHONG [CN]	A61L27/38; A61F2/14	A cell-removing cornea substrate is mostly constructed by hundreds mutually parallel collagen fiberboards, between which there are interspaces formed due to cell-removing.
CN201128130Y	CN20072044043U 20071005	ZICHENG LING [CN]	B25B15/00; B25B23/00	The utility model relates to a screwdriver for the blind, in particular to a screwdriver for the blind, handles arranged on two sides of which can turn up horizontally when a screw is totally screwed into a surface plate.
CN201153280Y	CN200820003119U 20080128	ZTE CORP [CN]	H04M1/247; G06K9/00; H04M1/02	The utility model discloses a mobile phone with red and green light identifying function, which comprises an image identifying device used for identifying red and green lights.

Número de Publicação	Prioridade(s)	Depositante	Classificação Internacional	Título ou Resumo
US2008174566	CO05037765 20050421; CO06034977 20060411; WO2006IB01502 20060421	ZUNIGA ZABALA MARIA FERNANDA [CO] ; GUERRA GOMEZ JOHN ALEXIS [CO]	G06F3/041	The invention relates to a system for the perception of images through touch. The inventive comprises hardware and software which enable any person with the sense of touch to perceive images, said system being intended for visually -impaired persons.

ANEXO I - Códigos dos Países

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

Fonte: http://www.wipo.int/export/sites/www/scit/en/standards/pdf/03-03-01.pdf, acesso em março de 08.

[1] Organização intergovernamental (escritório de patente regional) que atua para alguns países contratante sob o PCT (Tratado de Cooperação de Patentes).

[2] O código "WO" é utilizado em relação à publicação internacional sob o Tratado de Cooperação em Matéria de Patentes – PCT de pedidos internacionais depositados em qualquer repartição receptora de pedidos PCT.