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**INPI** INSTITUTO  
NACIONAL  
DA PROPRIEDADE  
INDUSTRIAL



**Pedidos de Patente com  
Tecnologias Aplicadas  
às Pessoas com  
Deficiência Motora – nº 5**

Pedidos Publicados no  
1º Semestre de 2012

Diretoria de Cooperação para o Desenvolvimento - Dicod  
Centro de Disseminação da Informação Tecnológica - Cedin  
Coordenação de Estudos e Programas - Cepro  
Novembro de 2012

**INSTITUTO NACIONAL DA PROPRIEDADE INDUSTRIAL - INPI**

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## SUMÁRIO

<b>1. INTRODUÇÃO .....</b>	<b>4</b>
<b>1.1 ALERTA TECNOLÓGICO.....</b>	<b>4</b>
<b>2. PEDIDOS DE PATENTE COM TECNOLOGIAS APLICADAS ÀS PESSOAS COM DEFICIÊNCIA MOTORA .....</b>	<b>6</b>
<b>2.1 CLASSIFICAÇÃO INTERNACIONAL DE PATENTES – CIP.....</b>	<b>7</b>
<b>3. RESULTADOS .....</b>	<b>9</b>
<b>ANEXO I - Códigos dos Países.....</b>	<b>95</b>

### Lista dos gráficos

<b>Gráfico nº 1:</b> Países de prioridade dos pedidos de patente recuperados x número de pedidos .....	<b>9</b>
<b>Gráfico nº 2:</b> Número de pedidos de patente publicados sobre tecnologias aplicadas às pessoas com deficiência motora (1º semestre de 2012) x classificação internacional de patentes (CIP).....	<b>13</b>

### Lista das tabelas

<b>Tabela nº 1:</b> Relação dos depositantes e número de pedidos de patente publicados no 1º semestre de 2012 .....	<b>11</b>
<b>Tabela nº 2:</b> Dados bibliográficos dos pedidos de patente publicados no 1º semestre de 2012 (Por ordem alfabética do nome do depositante).....	<b>14</b>

## 1. INTRODUÇÃO

### 1.1 ALERTA TECNOLÓGICO

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

O Centro de Disseminação da Informação Tecnológica (CEDIN), subordinado à Diretoria de Cooperação para o Desenvolvimento (DICOD) têm como uma de suas atribuições divulgar e disseminar informações bibliográficas e técnicas contidas em documentos de patentes. Para tanto, o CEDIN dispõe da Coordenação de Estudos e Programas (CEPRO), cuja incumbência é elaborar publicações fundamentadas, essencialmente, em informações extraídas de documentos de patente<sup>1</sup>.

A patente é uma fonte formal de informação, por meio da qual pode-se ter acesso a detalhes técnicos de invenções que, em alguns casos, não são descritos em livros nem em artigos técnicos.

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

Um pedido de patente é constituído de uma folha de rosto, relatório descritivo da invenção, reivindicações, desenhos (se necessários) e resumo. A folha de rosto contém os dados bibliográficos, tais como, os nomes dos

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

depositantes, inventores, datas e números de depósito, de publicação e de prioridade do pedido, classificação internacional etc., além do título e resumo da invenção.

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

1. Base Brasileira de Pedidos de Patente<sup>2</sup>: <http://www.inpi.gov.br>
2. Base do Escritório Europeu de Patentes<sup>3</sup>:  
<http://worldwide.espacenet.com/>
3. Base do Escritório Americano de Patentes<sup>4</sup>: <http://www.uspto.gov>

Caso haja interesse em se conhecer o depósito de patente brasileiro correspondente (família do pedido de patente<sup>5</sup>), para algum(ns) dos pedidos de patente estrangeiros listados na Tabela nº 2, sugere-se uma busca de família do mesmo. Neste caso, o Cedin informará os procedimentos a serem seguidos, por meio do endereço abaixo.

INPI/DART/CEDIN:

Instituto Nacional da Propriedade Industrial – INPI

Diretoria de Cooperação para o Desenvolvimento - Dicod

Centro de Disseminação da Informação Tecnológica – Cedin

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e-mail: [cedin@inpi.gov.br](mailto:cedin@inpi.gov.br)

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<sup>2</sup> Esta base contém somente pedidos de patente depositados e publicados no Brasil a partir de 1982.

<sup>3</sup> Contém pedidos de patente depositados e publicados em mais de 70 países.

<sup>4</sup> Contém pedidos de patente depositados ou concedidos e publicados apenas nos Estados Unidos.

<sup>5</sup> 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 patente depositados em diferentes países e que pertencem a uma mesma família têm pelo menos um número de prioridade em comum.

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

## **2. PEDIDOS DE PATENTE COM TECNOLOGIAS APLICADAS ÀS PESSOAS COM DEFICIÊNCIA MOTORA**

A Secretaria de Direitos Humanos (SEDH), em especial a Subsecretaria Nacional de Promoção dos Direitos da Pessoa com Deficiência (SNPD)<sup>6</sup>, juntamente com várias outras instituições e organizações vêm trabalhando para a identificação e divulgação de Tecnologia Assistiva para pessoas com deficiências. Assim, o INPI vem, por meio do CEDIN, colaborar com a SNPD, facilitando o acesso, ao público interessado, às informações sobre o assunto contidas nos documentos de patente.

A Tecnologia Assistiva também é conhecida como “ajuda técnica” e, se refere a tecnologias desenvolvidas para dar independência, autonomia ou para facilitar o cotidiano de pessoas com deficiências.

Assim, o objetivo do “Alerta Tecnológico” consiste em divulgar, a cada semestre, os pedidos de patente publicados sobre Tecnologia Assistiva, tais como, processos ou equipamentos para diagnosticar deficiências motoras, próteses, equipamentos e utensílios desenvolvidos com a finalidade de solucionar dificuldades cotidianas de pessoas com deficiências motoras, entre outros.

Para o presente levantamento foram selecionados os documentos de patente contendo em seu título ou resumo uma das palavras-chave, a seguir: **pessoas** ou **crianças com deficiência**, **idoso(s)**, **paraplegia**, **paraparesis**, **monoplegia**, **monoparesis**, **tetraplegia**, **tetraparesis**, **triplegia**, **triparesia**, **hemiplegia**, **hemiparesis**, **amputação**, **paralesia cerebral**, **inválido** ou **invalidez** (apesar de não serem palavras adequadas, ainda aparecem descritas

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<sup>6</sup> Em 26 de junho de 2009 pela Lei nº 11.958, Decreto nº 6.980, de 13 de outubro de 2009, a então Coordenadoria Nacional para Integração da Pessoa Portadora de Deficiência (Corde) foi elevada a Subsecretaria Nacional de Promoção dos Direitos da Pessoa com Deficiência (SNPD).

nos títulos das invenções), ou pelo menos uma das classificações internacionais a seguir<sup>7</sup>:

**A61F2/** - Próteses;

**A61F4/** - Processos ou dispositivos para habilitarem deficientes a operarem um aparelho ou um dispositivo não fazendo parte do corpo;

**A61G3/** - Características em veículos para facilitar o acesso às ou para carregar cadeiras de roda;

**A61G5/** - Cadeiras de rodas

**A47K11/04** – Cadeiras com facilidades sanitárias;

**A61G7/** – Camas para pessoas com deficiência ou com dispositivos para levantar pacientes;

**A61H3/** - Aparelhos para auxiliar pessoas com deficiência a se locomoverem;

## 2.1 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 (CIP), 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. A CIP é uma ferramenta uniforme e utilizada por diversos países e organizações com o objetivo de facilitar a recuperação de documentos de patente.

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<sup>7</sup> Um documento de patente pode conter uma ou mais classificações.

São signatários do Acordo de Estrasburgo 62 Estados<sup>8</sup>, 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 utilizam a CIP.

A cada ano a CIP é revisada de acordo com sugestões discutidas e acordadas pelos representantes dos países signatários. A edição atualizada é disponibilizada no *site* da OMPI: <http://www.wipo.int/classifications/ipc/> e no *site* do INPI: [http://www.inpi.gov.br/portal/artigo/classificacao\\_patentes](http://www.inpi.gov.br/portal/artigo/classificacao_patentes).

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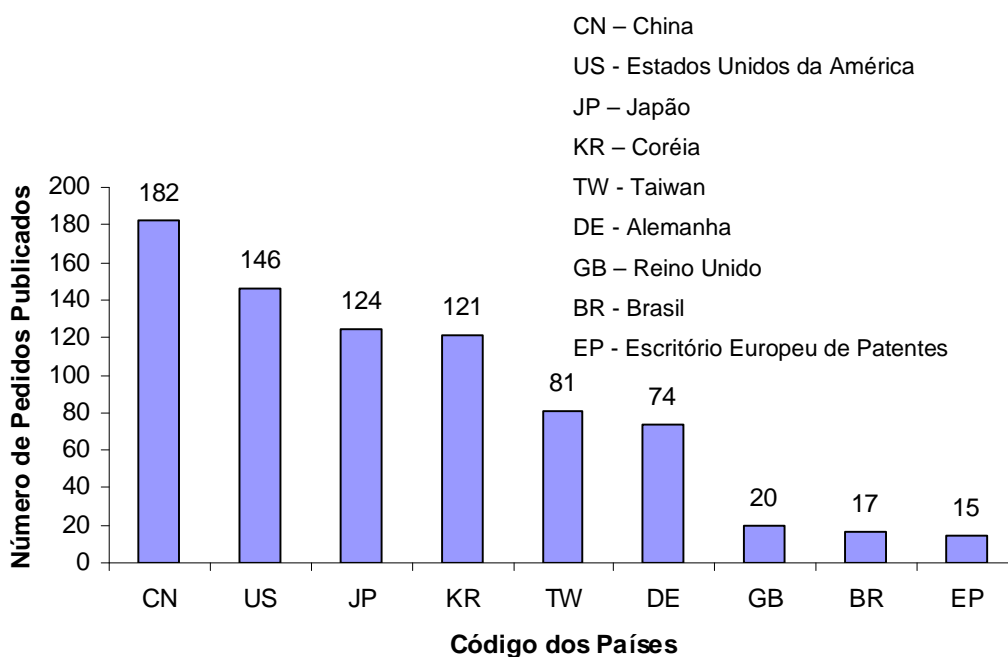
<sup>8</sup> Fonte: [http://www.wipo.int/treaties/en/ShowResults.jsp?lang=en&search\\_what=B&bo\\_id=19](http://www.wipo.int/treaties/en/ShowResults.jsp?lang=en&search_what=B&bo_id=19). Acesso em 30/05/2012.



### 3. RESULTADOS

No semestre pesquisado, foram selecionados **886** pedidos de patente que abordam tecnologias relacionadas às pessoas com deficiência motora. No Gráfico nº 1 pode-se visualizar os códigos dos países<sup>9</sup> de prioridade dos pedidos de patente recuperados no período e a ocorrência em cada país. O país de prioridade é o país onde foi realizado o primeiro depósito do pedido de patente que, geralmente, é o país de residência do depositante. Mas, é importante lembrar que o depositante pode solicitar a prioridade de seu pedido de patente em um país diferente do país de sua residência.

**Gráfico nº 1:** Países de Prioridade dos Pedidos de Patente Recuperados x Número de Pedidos



Fonte: Elaboração própria a partir dos dados disponíveis na base de patentes do Escritório Europeu de Patentes. Acesso em Novembro/2012

No Gráfico nº 1 observa-se que os países de prioridade com quinze ou mais ocorrências são: China com 182 ocorrências; Estados Unidos da América com 146 ocorrências; Japão com 124 ocorrências; Coréia com 121; Taiwan com 81;

<sup>9</sup> A lista com os códigos dos países está disponível no Anexo I.

Alemanha com 74; Reino Unido com 20; Brasil com 17; e Escritório Europeu de Patentes com 15. Como no alerta publicado no semestre passado, observa-se a continuidade da liderança da China, dos Estados Unidos e do Japão como países de prioridade dos pedidos de patentes publicados neste período.

Entre outras inferências pode-se citar, a partir do Gráfico nº 1, que os depositantes optaram por depositar seus pedidos de patentes, primeiramente, nos países indicados porque são os próprios países dos depositantes, ou porque estes países dispõem de um mercado mais atrativo e com grande potencial consumidor.

A seguir, são apresentados os 17 documentos recuperados no período com prioridade brasileira.

BRPI1002484 -	Depositado por Benedicto Hudson Adalberto [BR]; Dias, Leonice Costa [BR]	Sistema de controle remoto de chuveiro elétrico para economia de água e energia elétrica
BRMU9001116-	Depositado por Brandao, Vanderlei [BR]	Disposição construtiva em plataforma de elevação para cadeirantes e outros através de tração eletropneumática
BRMU9000434-	Depositado por Cheliga, David [BR]	Disposição introduzida em equipamento de apoio para deambulação
BRPI1001849-	Depositado por Comil Anibus S. A. [BR]	Aperfeiçoamentos introduzidos em rampa de acesso veicular
BRPI1001991-	Depositado por Fundacao CPQD Ct de Pesquisa e Desenvolvimento em Telecomunicacoes [BR]	Sistema de serviços de governo eletrônico com garantia de acesso universal utilizando método de identificação automática de perfis de usuários
BRPI0905023 -	Depositado por Gomes, Antonio José [BR]	Dispositivo para fixar utensílios em fogão doméstico
BRMU9000475-	Depositado por Ind e Com de Plásticos Cajovil Ltda [BR]	Suporte para picolé e sorvete
BRPI1002574-	Depositado por Marchini, Paulo David Camargo [BR]; dos Santos, Abel Ferreira [BR]	Mecanismo de elevação do encosto/assento aplicado em cadeira de rodas e outros, para sistema de mobilização do usuário
BRMU9002576-	Depositado por Marcopolo S.A. [BR]	Dispositivo capacitivo de acionamento de sinalização de socorro para veículos de transporte coletivo

BRPI1003284-	Depositado por Physicus Ind de Aparelhos Esportivos Ltda [BR]	Equipamento de musculação denominado máquina de supino vertical para trabalho dos músculos posteriores do braço e peitorais
BRMU8902225-	Depositado por Servico Nac de Aprendizagem Ind SENAI [BR]	Disposição construtiva em cadeira de rodas
BRMU9002577-	Depositado por Silva, Jorge Luiz [BR]	Jangada acessível
BRPI1001017-	Depositado por Silva Santos, Manoel [BR]	Aperfeiçoamentos introduzidos em cadeira de rodas anfíbia para pessoas com mobilidade condicionada
BRPI0905573 -	Depositado por Sociedade Educacional Uberabense [BR]	Dispositivo de alerta para muletas axilares
BRPI1004279-	Depositado por Unicamp [BR]	Dispositivo assistivo de interface homem-máquina e equipamento controlado pelo mesmo
BRPI1006321-	Depositado por Univ Fed do Espírito Santo [BR]	Sistema assistivo aplicado a uma cadeira de rodas robótica
BRPI1002778-	Depositado por Univ São Paulo [BR]	Dispositivo deambulatório autotransferente

Na Tabela nº 1, a seguir, são identificados os depositantes com 5 ou mais pedidos de patentes publicados no período. Destaca-se que em alguns dados não constavam os nomes dos depositantes.

**Tabela nº 1:** Relação dos depositantes e número de pedidos de patente publicados no 1º semestre de 2012

Nome do Depositante	Total de Pedidos no Período
BOCK HEALTHCARE GMBH [DE]	10
UNIV SHANDONG SCIENCE & TECH [CN]	10
TOYOTA MOTOR CORP [JP]	8
HONDA MOTOR CO LTD [JP]	6
KOREA IND TECH INST [KR]	6
HUANG MIAO-YUAN [TW]	6
PANASONIC CORP [JP]	5
IMASEN ELECTRIC IND [JP]	5
SUNPEX TECHNOLOGY CO [TW]	5
INVACARE CORP [US]	5
OESSUR HF [IS]	5
INVACARE INT SARL [CH]	5

Fonte: Elaboração própria a partir dos dados disponíveis na base de patentes do Escritório Europeu de Patentes.

Acesso em Novembro/2012

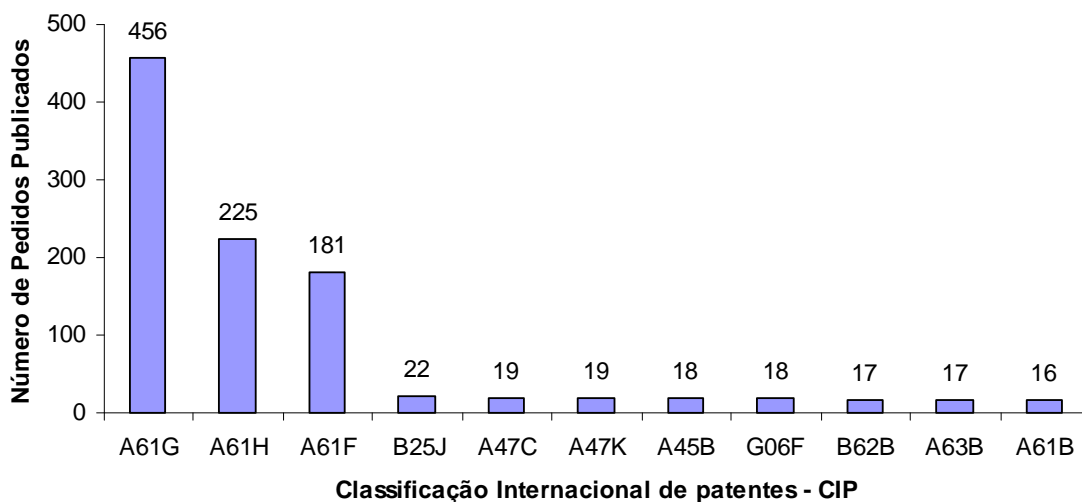
Pode-se observar nesta tabela os nomes dos principais depositantes dos pedidos de patente publicados no período com tecnologias aplicadas às pessoas com deficiência motora. A primeira coluna contém os nomes dos depositantes e a sigla de seus países de residência e a segunda, o total de documentos recuperados no período para cada empresa.

Depreende-se desta tabela que 12 depositantes tiveram 5 ou mais pedidos de patente publicados no período, sendo que a empresa Bock Healthcare GmbH (alemã) e a Universidade Shandong Science & Tech (chinesa) lideram o *ranking* com 10 pedidos publicados, cada uma, no período.

Dentre os 12 principais depositantes, observa-se que quatro têm residência no Japão e dois em Taiwan. O restante tem residência na Alemanha, China, Coréia, Estados Unidos, Suíça e Islândia.

No Gráfico nº 2, a seguir, pode-se visualizar as classificações contidas nos pedidos de patente, com mais de 15 ocorrências. Os códigos da Classificação Internacional de Patentes possibilitam a identificação, de uma forma abrangente, dos assuntos mais solicitados no período, relacionados às tecnologias para pessoas com deficiência motora. Para o conhecimento mais detalhado de cada tecnologia, sugere-se a leitura de todo o conteúdo do documento de patente de interesse.

**Gráfico nº 2:** Número de Pedidos de Patente Publicados sobre Tecnologias aplicadas às pessoas com Deficiência Motora (1º semestre de 2012) x Classificação Internacional de Patentes (CIP)



Fonte: Elaboração própria a partir dos dados disponíveis na base de patentes do Escritório Europeu de Patentes. Acesso em Novembro/2012

No Gráfico nº 2 observam-se 456 ocorrências da classificação **A61G**, referente a “Transporte ou acomodação de pacientes ou pessoas com deficiência”; 225 da classificação **A61H** referente a “Aparelhos para fisioterapia ou cuidados especiais com o corpo”; 181 ocorrências da classificação **A61F** referente a “Próteses”; 22 ocorrências da classificação **B25J** referente a “Manipuladores; compartimentos equipados com dispositivos para manipulação”; 19 da classificação **A47C** referente a “Cadeiras”; 19 da classificação **A47K** referente a “Equipamento sanitário, acessório para banheiros”; 18 da classificação **A45B** referente a “Bengalas”; 18 da classificação **G06F** referente a “Processamento elétrico de dados digitais”; 17 da classificação **B62B** referente a “Veículos de propulsão manual”; 17 da classificação **A63B** referente a “Aparelhos e dispositivos para exercícios, esportes e diversão”; e 16 da classificação **A61B** referente a “Diagnóstico, cirurgia ou identificação”

Na tabela 2, a seguir, são apresentados os dados bibliográficos dos documentos recuperados no período.

## **Tabela nº 2:**

Dados bibliográficos dos pedidos de patente  
publicados no 1º semestre de 2012  
(Por ordem alfabética do nome do depositante)

Número do Pedido	País e nº da Prioridade	Nome(s) do(s) Depositante(s)	CIP	Título
JP2012513219 A 20120614	US20080128378 20080528; WO2008US07369 20080611		A61F2/60; A61F2/80	Prosthetic limb
KR200460407Y Y1 20120524	KR20120001946U 20120312		A61H3/02; A61G12/00; A61J1/16	Crutch having ringer support
KR20120001034U U 20120214	KR20100008148U 20100804		A61G7/05; A61G12/00	Arm supporter
KR20120003179U U 20120509	KR20100011124U 20101029		A61H3/02	Crutches
KR20120003210U U 20120509	KR20100011168U 20101029		E04F11/18	Supporter for rail adhesion type glass railing for disabled person
KR20120004059U U 20120608	KR20100012390U 20101130		A61H3/04; A61H3/00	Walking supporter
KR20120004724U U 20120629	KR20100013223U 20101221		A61H3/02	Folding crutches
KR20120004725U U 20120629	KR20100013224U 20101221		A61H3/02	Folding crutches
KR20120004727U U 20120629	KR20100013226U 20101221		A61H3/02	Folding crutches
KR20120056381 A 20120604	KR20100117885 20101125		A61H3/00; A61H3/04	An electric walking apparatus
KR20120058322 A 20120607	KR20100120041 20101129		B60N2/32; A61G3/02; B60N2/30	Foldable seat for vehicle of handicapped person
KR20120058707 A 20120608	KR20100120104 20101130		B66B13/26; B66B3/02; B66B13/14; B66B13/30	Elevator for disabled person
KR20120059305 A 20120608	KR20100120981 20101130		B25J17/00; A61F2/54; A61H3/00	Shoulder articulation structure of wearable robot
KR20120059999 A 20120611	KR20100121540 20101201		A61G5/14; A61G5/04; A61G5/10; G05D1/08	Wheelchair possible of up and down, front and back movement of seat

KR20120060035 A 20120611	KR20100121592 20101201		A61G5/10; A61G5/04; G05G9/047	Controller having control groove and electric wheelchair with the same
KR20120060056 A 20120611	KR20100121621 20101201		A61G5/14; A61G5/04; A61G5/10	Lift wheelchair
KR20120060058 A 20120611	KR20100121623 20101201		A61G5/14; A61G5/04; A61G5/10	Stand-up wheelchair
KR20120060132 A 20120611	KR20110036741 20110420		A47K3/022; A61G7/10	Senior-friendly automatic bath apparatus having moving bathtub for preventing musculoskeletal disorder
KR20120060360 A 20120612	KR20100121823 20101202		A61G5/10; A47C7/74; B60N2/56	A wheel chair for preventing bedsore
KR20120060363 A 20120612	KR20100121826 20101202		A61H3/04; A61H3/00	Walking supporter
WO2012035341 A1 20120322	GB20100015398 20100915	13 17 DESIGNS LTD [GB]; MILNER BRIAN [GB]	A61G5/06; B60B1/06; B60B5/02; B62B5/02	Wheel assembly for a handcart
US2012022667 A1 20120126	US201113186613 20110720; US20100366012P 20100720; US20100388322P 20100930	5280 PROSTHETICS LLC [US]	A61F2/80; A61B5/00	Intelligent prosthetic socket system with active user feedback interface and real time prosthesis diagnostics
DE202012101317U U1 20120427	DE201220101317U 20120412	AAT ALBER ANTRIEBSTECHNIK GMBH [DE]	A61G5/02	Hilfsantriebsvorrichtung für rollstühle
DE202012101549U U1 20120523	DE201220101549U 20120425	AAT ALBER ANTRIEBSTECHNIK GMBH [DE]	A61G3/06	Auffahrrampe
JP2012016558 A 20120126	JP20100168610 20100708	ABA MOTORS KK	A61G5/02; A61G5/00	Handrail for wheelchair
DE102010033356 A1 20120126	DE201010033356 20100726	ABSOLUTELY SPECIAL TRADE GMBH [DE]	A61F2/52; A61F2/68; A61H7/00; A61N1/04	Breast epithesis, breast orthosis or breast prosthesis for use by breast cancer affected woman, has artificial nipple that swells, bends and falls down, and stimulation unit with electrodes for creating feeling of movements on skin



WO2012068015 A2 20120524	US20100413873P 20101115	ADVANCED MECHANICAL TECH [US]; CARIGNAN FOREST J [US]; WHITE BRUCE F [US]	G09B23/32; A61F2/46; A61F2/76	Method and apparatus for joint motion simulation
CN202136520U U 20120208	CN20112094386U 20110402	AFFILIATED TONGJI HOSPITAL OF TONGJI MEDICAL COLLEGE OF HUAZHONG UNIVERSITY OF SCIENCE & TECHNOLOGY	A61G7/057; A61F5/01; A61G7/075; A61H23/04	Automatic inflation and deflation foot pad capable of preventing foot drops and bedsores
AU2010299032 A1 20120405	JP20090222456 20090928; WO2010JP66589 20100924	AGC MATEX CO LTD	A61G3/00; A61G5/00	Slope device for wheelchair
KR20120005796 A 20120117	KR20100066454 20100709	AICT [KR]	A61G5/06; A61G5/04; A61G5/10; G05D1/08	Electrically-powered stair-climbing vehicle
ES2374059T T3 20120213	IT2007RM00530 20071008; WO2008IT00632 20081006	AIRPORT EQUIPMENT SRL [IT]	B64F1/31; A61G3/06	Vehiculo elevable.
JP2012016417 A 20120126	JP20100154488 20100707	AKASHI MASATAKE	A61G3/00; A61G1/00; A61G1/02; A61G5/00	Carrying device for cared person with difficulty in walking
DE102010037705 A1 20120322	DE201010037705 20100922	ALBER ULRICH GMBH [DE]	A61G5/04	Auxiliary drive device, wheelchair and method for determining the manual drive power of a wheelchair user
DE102010037729 A1 20120301	DE201010016655 20100427; DE201010037729 20100923	ALBER ULRICH GMBH [DE]	A61G5/06; B62B5/02	Stair climbing device
US2012068435 A1 20120322	DE201010037710 20100922	ALBER ULRICH GMBH [DE]	A61G5/02; A61G5/04; G06F19/00	Drive assistance device, wheelchair and method for determination of the physical efficiency and muscular effort data of a wheelchair driver

AU2010266799 A1 20120119	NZ20090578039 20090629; WO2010NZ00129 20100629	ALEXANDER KEITH	A61G5/10; A61G3/04; B62B11/00	Person moving devices for moving persons of limited mobility
US2012074661 A1 20120329	PL20100392529 20100929	ALREH MEDICAL SP Z O O [PL]	A61H3/04	Pair of runners for walking and/or travel movement
AR079252 A4 20120104	AR2010M104465U 20101203	ALTINI JOSE [AR]; TEMERLIN MALENA [AR]; BRADICHANSKY MARIANA [AR]; FURMAN LAURA [AR]	A61G5/08	Mecanismo de plegado para sillas de ruedas
EP2452662 A2 20120516	IT2010UD00205 20101112	AMBROSET GIORGETTO [IT]	A61G5/06; A61G5/02	Device for the disabled
JP2012085973 A 20120510	JP20100246779 20101015	AOKI NOBUHIRO	A61G5/02; A61H33/00	Indoor-outdoor dual purpose wheelchair
JP2012101011 A 20120531	JP20100261752 20101105	AOKI NOBUHIRO	A61G5/02	Level difference ascending/descending wheelchair
ES2377866T T3 20120402	CZ20080020117U 20080708; WO2009CZ00073 20090522	API CZ S R O [CZ]	A61G3/06; B60P1/43; B60R3/02	Rampa plegable que permite que un pasajero minusválido en silla de ruedas entre en un vehículo
WO2012052988 A2 20120426	US20100909746 20101021	ARGO MEDICAL TECHNOLOGIES LTD [IL]; GOFFER AMIT [IL]; TAMARI OREN [IL]	A61H3/00	Locomotion assisting apparatus with integrated tilt sensor
WO2012077039 A1 20120614	GB20100020616 20101206	ARIEL UNIVERSITY RES AND DEV COMPANY LTD [IL]; BEN-MOSHE BOAZ [IL]; SHVALB NIR [IL]	A61H3/06; G01S17/93	Device for imparting distance information
AU2010297443 A1 20120405	EP20090171064 20090923; WO2010EP63601 20100916	ARJO HOSPITAL EQUIPMENT AB	A61G7/00	Shower stretcher

AU2010299940 A1 20120412	EP20090171280 20090924; EP20100165718 20100611; WO2010EP63856 20100921	ARJO HOSPITAL EQUIPMENT AB	A61G7/10	Patient lift and coupling therefor
US2012116539 A1 20120510	US201213352208 20120117; US201161461213P 20110117	ARMSTRONG PETER [US]; ARMSTRONG WAYNE [US]	A61F2/80; B28B7/30; B29C44/02; B29C70/28	Custom-fitted prosthetic socket devices and methods for producing same
DE102010047093 A1 20120405	DE201010047093 20101001	ARNOLD ROLAND [DE]	A61G3/08	Restraint system for wheelchair user in vehicle, has backrest, which is connected with vehicle over carrier, where two vertically arranged
WO2012047737 A2 20120412	US20100387968P 20100929	ARTICULATE LABS INC [US]; KIRN LARRY J [US]	G06Q50/00; A61F2/54; A61F2/60; A61F2/68; A61F2/70	Orthotic support and stimulus systems and methods
EP2440170 A1 20120418	WO2010FR51049 20100531; FR20090053904 20090611	ASSIST PUBL HOPITAUX DE PARIS [FR]	A61G5/12; A61G5/02; A61G5/08; A61G5/10	Wheelchair with improved steering control for hemiplegic persons
JP2012105916 A 20120607	JP20100258766 20101119	ASUTAKKU KK	A61H3/00; A61H1/02	Movement assisting device for person in need of nursing care
JP2012045194 A 20120308	JP20100190485 20100827	ATR ADVANCED TELECOMM RES INST	A61H3/00; A61F2/72; B25J5/00	Exoskeleton type robot
NZ580176 A 20120629	NZ20110580176 20110401	AUCKLAND MOBILITY DEVICES LTD	A61H3/02; F16F7/09	Shock absorber insert for a walking aid
US2012101597 A1 20120426	US201113277590 20111020; US20100405766P 20101022	BACHE ANDREW [IS]	A61F2/78	Adjustable socket system
KR20120006596 A 20120119	KR20100067154 20100713	BAE JONG HYEON [KR]; CHOI GYUNG JU [KR]	G06F3/033; G06F3/044	Capacitive type touch devices have conductive type touch pen

US2012012417 A1 20120119	US201113134888 20110620; US20080315548 20081204; US20070005439P 20071205; US20070005446P 20071205; US20070005447P 20071205	BAKER SCOTT BRADLEY [US]	A61G5/00	Wheelchair
US2012104724 A1 20120503	US201213345590 20120106; US20100957213 20101130; US20070838492 20070814	BALCOM NANCY [CA]; BELANGER LOUIS [CA]; BROWN TORR [CA]; KRAWCZYNSKI JANUSZ [CA]; MUNDY PHIL [CA]; HARDING DAVID [CA]; CHENG DAVID CHENG [CA]	A61G5/00; B23P23/00	Reconfigurable tilt wheelchair
KR101136987B B1 20120420	KR20110116658 20111109	BANSUK ARCHITECTS & AMP ENGINEERS CO LTD [KR]	E04F11/02; E04F11/04	Staircase for obstacle person and children
ES1077035U U 20120528	ES20110031266U 20111209	BAQUERO BECERRA JAVIER [ES]	A61G5/06	Dispositivo salva escaleras para sillas de ruedas electricas
GB2484950 A 20120502	GB20100018137 20101027	BARNES-NEWTON KEITH [GB]	A61H3/02	Adaptor for attaching tools to the lower end of a crutch
DE102010046302 A1 20120322	DE201010046302 20100922	BECKER GEORG [DE]	A61G5/06	Attachment for wheelchair for use outside buildings, comprises two support rollers, which are connected with attachment, where attachment is fixed or reversibly attached in wheelchair front side
CN202105113U U 20120111	CN20112181617U 20110601	BEIJING HUBANGZHIIA PALOU CAR TECHNOLOGY DEV CO LTD	A61G5/06; A61G5/10	Electric wheelchair capable of climbing stairs
DE202012101800U U1 20120614	DE201220101800U 20120515	BEKA HOSPITEC GMBH [DE]	A61G7/10	Lifting device for lifting and transporting patients

BRPI1002484 A2 20120515	BR2010PI02484 20100713	BENEDICTO HUDSON ADALBERTO [BR]; DIAS LEONICE COSTA [BR]	A47K3/28; G08C19/36; H05B3/00	Sistema de controle remoto de chuveiro elétrico para economia de água e energia elétrica
EP2450020 A1 20120509	US20100942889 20101109	BERCHTOLD HOLDING GMBH [DE]	A61G7/10	Overhead patient lift system
US2012090904 A1 20120419	US201113226052 20110906; US20100760192 20100414; US20090583653 20090824; US20080074233 20080229; US20060830170P 20060712	BEZILE RANDALL J [US]	A61G5/04	Wheelchair tow device
DE202011109343U U1 20120223	DE201120109343U 20111213	BIEBER HANS JUERGEN [DE]	B60N3/00; A61G3/06; A61G3/08	Collision safety device (head and back support)
DE202012003692U U1 20120529	DE201220003692U 20120412	BIEBER HANS JUERGEN [DE]	A61G3/06	Hochstandfeste auffahrklapprampe mit möglichem rollstuhlfahrerplatz
CN102406534 A 20120411	CN20101289471 20100925	BIN JIANG	A61G5/00; A61G5/12	Improved wheel chair
CN202161529U U 20120314	CN20112232622U 20110704	BING LI	A61H3/04	Walking rehabilitation cart
AT539712T T 20120115	US20000695448 20001024; WO2001US45264 20011024	BIOMET INC [US]	A61F2/64; A61F2/38	Floating support knee prosthesis
WO2012040277 A1 20120329	US20100886758 20100921	BIOQUEST PROSTHETICS [US]; TOWNSEND BARRY W [US]; CLAUDINO BYRON K [US]; MOSHIER MONTY [US]; LEACH DALLIN [US]	A61F2/66	Resilient prosthetic and orthotic components which incorporate a plurality of sagittally oriented struts

DE102010031954 A1 20120126	DE201010031954 20100722	BISCHOFF & BISCHOFF MEDIZIN UND REHABILITATIONSTECHNI K GMBH [DE]	A61H3/04	Walking frame for use as continuous supporter by walking impaired person, during walking, has seat surface formed by foldable seat board, and foldable cross beam arranged under seat board, which lies on cross beam in folded apart condition
GB2486817 A 20120627	GB20100021829 20101221	BLATCHFORD & SONS LTD [GB]	A61F2/80; A61F2/78	Vacuum assisted suspension device
US2012130508 A1 20120524	US201213364786 20120202; GB20110001893 20110203; US20070956391 20071214; US201161454060P 20110318	BLATCHFORD & SONS LTD [GB]	A61F2/68	Lower limb prosthesis
CN202151422U U 20120229	CN20112276681U 20110727	BO GAO	A61H3/02	Crutch
SE1000819 A1 20120207	SE20100000819 20100806	BO MAGNUSSON MED BM DESIGN FA [SE]	A61G5/06; A61H3/04	Hävanordning anordnad vid en rollator/rullstol
AU2010296136 A1 20120412	NL20092003506 20090917; WO2010NL50602 20100917	BOBERGO B V	A61H3/04	Rollator wheelchair
AT543478T T 20120215	DE200510038030 20050808; WO2006DE01360 20060803	BOCK HEALTHCARE GMBH [DE]	A61G5/14; A61G5/04; A61G5/10; A61G5/12	Aufrichtrollstuhl
AT546112T T 20120315	DE200610009510 20060227; WO2007DE00351 20070222	BOCK HEALTHCARE GMBH [DE]	A61F2/60; A61F2/68	Hip prosthesis
AT548002T T 20120315	DE200510061313 20051220; WO2006DE02177 20061207	BOCK HEALTHCARE GMBH [DE]	A61F2/58; A61F2/68	Hand prosthesis

BRPI1005601 A2 20120228	DE200910057700 20091207	BOCK HEALTHCARE GMBH [DE]	A61F2/64	Órtese de articulação de joelho
DE102010049257 A1 20120426	DE201010049257 20101025	BOCK HEALTHCARE GMBH [DE]	A61F2/66; A61F2/68	Prosthetic foot has base spring with front foot area and heel area, connection units for fixing prosthetic foot on prosthesis and front supports
DE102010050318 A1 20120510	DE201010050318 20101105	BOCK HEALTHCARE GMBH [DE]	A61F2/64; A61F2/60; F16F1/36	Joint e.g. Polycentric knee joint, device for orthosis or prosthetic knee operation of patient, has damper devices designed as compressible elastomer elements and provided in operative position during inflexion of device
EP2417940 A2 20120215	EP20090001076 20090127; DE200810008281 20080207	BOCK HEALTHCARE GMBH [DE]	A61F2/66; A61F2/68	Passive orthopaedic aid in the form of a foot prosthetic or orthotic
WO2012010309 A1 20120126	DE201010031723 20100721	BOCK HEALTHCARE GMBH [DE]; BOITEN HERMAN [DE]	A61F2/64	Prosthetic knee joint
WO2012062279 A2 20120518	DE201010049257 20101025; DE201010050493 20101108	BOCK HEALTHCARE GMBH [DE]; MOSLER LUEDER [DE]	A61F2/66	Prosthetic foot
WO2012055401 A1 20120503	DE201010049894 20101029	BOCK HEALTHCARE GMBH [DE]; SCHNEEGANS MARKUS [DE]; WEIGEND LARS [DE]	A61F2/60	Prosthesis device and lining for a prosthesis device
PL392227 A1 20120227	PL20100392227 20100825	BORKOWSKI PIOTR [PL]; ZOLTOWSKI JAN [PL]	A61F2/38; A61F2/00; A61F2/30; A61F2/64	Knee joint expandable endoprosthesis
WO2012059806 A1 20120510	DK20100000989 20101101	BORRINGIA IND AG [CH]; KOFOED HENRIK NOEHR [DK]; BECH MOGENS ILSTED [DK]	A61G5/10; A61G7/10	Care lift for handicapped persons
US2012074668 A1 20120329	US20100891797 20100927	BRAATEN DAVID [US]	A61G5/14	Wheelchair lift assist mechanism

BRMU9001116U U2 20120110	BR2010MU9001116U 20100521	BRANDAO VANDERLEI [BR]	B60P1/44; A61G3/06; B66F7/08	Disposição construtiva em plataforma de elevação para cadeirantes e outros através de tração eletropneumática
ES1076149U U 20120209	ES20110031323U 20111223	BRAU PELLISA PABLO [ES]	A61G3/00	Grua porta-personas
CA2759480 A1 20120608	US20100420888P 20101208	BRODA ENTPR INC [CA]	A61G5/10; A61G5/02; A61G5/12	Modular wheel chair
DE112010002890 A5 20120531	DE200920009547U 20090710; WO2010DE00765 20100705	BRUECK REINHARD [DE]; RAKERS HERMANN [DE]	A61H3/04	Elektroantrieb für rollatoren
GB2484463 A 20120418	GB20100017029 20101011	BUTTERS JONATHAN [GB]; BUTTERS INNOVATION LTD [GB]	A61G5/14; A61G7/10; A61H3/04	Apparatus to assist the rehabilitation of disabled persons
ES1076201U U 20120215	ES20120030034U 20120113	CABA JULIEN JORDI [ES]	A61H3/00	Elemento andador
EP2429458 A2 20120321	WO2010US32757 20100428; US20090173205P 20090428; US20090173208P 20090428; US20090242675P 20090915; US20090244449P 20090922	CADENCE BIOMEDICAL INC [US]	A61F2/56; A61F2/60; A61F2/68; A61F2/70; A61F2/78; A61F2/80	Adjustable prosthesis
TW201208659 A 20120301	TW20100129194 20100831	CAI KUN-HONG [TW]	A61G5/02; A61G5/04	Improved manual-electric wheelchair
CA2712672 A1 20120129	US20100846349 20100729	CALDWELL STEVEN [US]; CALDWELL MICHAEL J [US]	A61F5/14; A61H3/00	Walking device for remedying drop foot
US2012159706 A1 20120628	US20100977238 20101223	CAPALDI GUIDO [US]	A61G7/14	Patient lifting device



WO2012072833 A1 20120607	WO2010ES70793 20101201	CAPPIELLO RODRIGUEZ MIGUEL [ES]; VIDAL RODRIGUEZ RAFEL [ES]; BERDUN BARBERO DANIEL [ES]	A61H3/02	Adjustable elbow crutch with a curved arm and oval cross-section
TWM427144U U 20120421	TW100223229U 20111209	CAREMED SUPPLY INC [TW]	A61G7/05	Electric wheel brake mechanism
AT551982T T 20120415	FR20090002109 20090430	CARRIER CARROSSERIE SA [FR]	A61G3/06; B66B9/08	Community transport vehicle, with means for access of wheelchair users equipped
WO2012017335 A1 20120209	IT2010TO00682 20100805	CARROZZERIA 71 S R L [IT]; NOSENZO FAUSTO [IT]; NOSENZO ALESSANDRA [IT]	B62K3/00; A61G5/04; B62H1/02	Conversion assembly to be applied to a "segway" tm or the like transporter
EP2453847 A1 20120523	WO2010US42479 20100719; US20090226426P 20090717	CELEBI DOGAN [TR]; CELEBI HADIYE PINAR [TR]	A61F2/62	Rotatable prosthetic adapter
ES2376810 A1 20120320	ES20090002092 20091019	CERDA MARTINEZ MANUEL [ES]	B66B9/08; A61G5/06; E06C7/12	Escalera adaptable para paso de minusvalido.
CZ23908U U1 20120613	CZ20120025937U 20120419	CESKU VYSOKU UCENI TECHNICKU V PRAZE [CZ]	A61B5/11; A61G7/047	Device to measure movements of a patient body on a bed
EP2462901 A2 20120613	FR20100004800 20101209	CHABLOZ PIERRE [FR]	A61F2/64	Lower limb prosthesis
EP2462902 A1 20120613	FR20100004813 20101210	CHABLOZ PIERRE [FR]	A61F2/78; A61F2/50	Covering envelope for a prosthesis and method for manufacturing such an envelope
NZ590504 A 20120525	AU20080903052 20080616; WO2009AU00765 20090616	CHAD ARTHUR EVANS; WARREN PHILLIP DREW	A61H3/02; A45B1/00; A45B3/00; A45B5/00; A45B7/00; A45B9/00; A61H3/06; F16H25/20; F16M11/28; F16M13/08	A cane or stick with motorised length adjustable device using a threaded member and matching aperture to set the length of two telescoping body members that are locked in position by a coupling ring
CZ23995U U1 20120627	CZ20120026050U 20120515	CHALUPECKY RUDOLF [CZ]	A61G5/06; A61G5/02; A61G5/04	Wheel-chair

KR101146177B B1 20120524	KR20110097429 20110927	CHANG LIM MOATZ CO LTD [KR]	B62D25/20; A61G3/02; B62D21/00	Connection structure of lower floor for disabled person vehicle
CN202173686U U 20120328	CN20112200613U 20110615	CHANGSHA HAIPING MEDICAL EQUIPMENT CO LTD	A61N1/32; A61M37/00; A61N5/06	Computer therapy device of hemiplegia
CN202136504U U 20120208	CN20112124911U 20110426	CHANGSHA HERO MACHINERY CO LTD	A61G5/10	Armrest structure of electric wheelchair
CN202173535U U 20120328	CN20112293100U 20110812	CHANGSHENG SUI	A61G5/06; A61G5/10	Electric stair climbing wheelchair
CN102319152 A 20120118	CN20111247625 20110826	CHANGSHU PINGFANG WHEELCHAIR CO LTD	A61G5/04; A61G5/08; A61G5/10	Four-wheel electric vehicle
CN202198767U U 20120425	CN20112314403U 20110826	CHANGSHU PINGFANG WHEELCHAIR CO LTD	A61G5/04; A61G5/08; A61G5/10	Four-wheeled electric vehicle
CN202096370U U 20120104	CN20112031108U 20110129	CHANGZHOU HAOLIMEDICAL INSTR CO LTD	A61G5/00; A61G5/12	Rest chair for bone fractured patients
BRMU9000434U U2 20120522	BR2010MU9000434U 20100308	CHELIGA DAVID [BR]	A61H3/02; A45B7/00; A61H3/00	Disposição introduzida em equipamento de apoio para deambulação
DE202011108817U U1 20120125	DE201120108817U 20111208	CHEN CHIEN CHENG [TW]; CHEN CHIEN WEN [TW]	A61F2/64	Kniegelenkprothese
TWM427921U U 20120501	TW100224911U 20111229	CHEN CHIEN-WEN [TW]; CHEN CHIEN-CHENG [TW]	A61F2/64	Knee joint with shock absorbing effect
TWM429467U U 20120521	TW100220034U 20111025	CHEN CHIEN-WEN [TW]; CHEN CHIEN-CHENG [TW]	A61F2/64	Artificial limb of knee joint
US2012123560 A1 20120517	US20100946810 20101115	CHEN HUI-MEI [TW]	A61F2/80	Silicone liner unit used for prosthetic limbs
TWM424135U U 20120311	TW100215408U 20110818	CHEN JIAN-WEN [TW]; CHEN JIAN-CHENG [TW]	A61F2/60	Prosthetic bearing tube device
TWM424136U U 20120311	TW100221197U 20111110	CHEN JIAN-WEN [TW]; CHEN JIAN-CHENG [TW]	A61F2/66	Foot palm device of prosthetic leg
TWM431700U U 20120621	TW101201569U 20120120	CHEN JUN-WEI [TW]	A61H3/02	Multifunctional foot-shaped cane
TW201215384 A 20120416	TW100100469 20101008	CHEN JUN-WEI [TW]; LI MIN-SHAN [TW]; CHEN YI- JUN [TW]	A61H3/00	Step-type fixed-stroke walking aid

TWM427142U U 20120421	TW100202789U 20110215; TW100213117U 20110715	CHEN KO-CHUAN [TW]; CHEN KUAN-CHI [TW]; CHEN KUAN-HAN [TW]	A61G7/05	Electric hand-and-foot synchronous traction apparatus
US2012102635 A1 20120503	US201113281176 20111025; US20100407805P 20101028	CHENG KEVIN [US]	A47K11/04	Multi-user portable toilet
CN202151413U U 20120229	CN20112232974U 20110705	CHENGHAI YU	A61G7/075	Orthopedic raising pad
CN102335075 A 20120201	CN20101232034 20100717	CHENYANG HUANG	A61G5/00	Wheel chair
US8206459 B1 20120626	US20090406720 20090318	CHICAGO REHABILITATION INST [US]	A61F2/78; A61F2/80	Prosthetic-to-liner attachment mechanism
KR20120020568 A 20120308	KR20100084249 20100830	CHOI HYUN BAE [KR]	G08G1/14	Car parking system for disabled person
KR20120028604 A 20120323	KR20100090564 20100915	CHOI SEONG YEOL [KR]; CHOI JANE [KR]; CHOI SUNG UN [KR]	A61F2/54; A61F2/78	A handle for disabled person
CN202146405U U 20120222	CN20112245116U 20110713	CHONGQING NANCHUAN PEOPLE HOSPITAL	A61G7/075	Adjustable lower limb support frame
CN202179648U U 20120404	CN20112293230U 20110812	CHONGQING NANCHUAN PEOPLE HOSPITAL	A61G7/02; A61G7/057	Sickbed with internal toilet device
KR101124072B B1 20120320	KR20100100319 20101014	CHUNGWOO MEDICAL CO LTD [KR]	A61H3/04; A61G5/04; A61G5/10; G05D1/08	Walking supporter
WO2012077148 A1 20120614	WO2010IT00497 20101210	CIOTTI GIANCARLO [IT]	A61G7/10; A61G5/10	A chair for disabled or non self-sufficient people provided with automatized lifting of the seat.
WO2012021823 A1 20120216	US201113208846 20110812; US20100373258P 20100812	CJ SOCKET TECHNOLOGIES [US]; CORNELL KEITH D [US]	A61F2/80	Adjustable prosthetic limb socket

US2012138113 A1 20120607	US201113114038 20110523; US20100347335P 20100521	CLASSROOM SEATING SOLUTIONS LLC [US]	A47C16/02; A47B41/00; A47B97/00; A47C7/50; A61H3/00	Foot rest with exercising and energy absorbing functions
KR20120034395 A 20120412	KR20100095937 20101001	CO2ROCKET COM INC [KR]	A61F2/20; A61F2/68; G10L13/00; H04R1/14	Artificial larynx apparatus
KR20120068656 A 20120627	WO2008AU00611 20080501; US20070915410P 20070501	COLUMNA PTY LTD [AU]	A61F2/44; A61F2/76	System methods and apparatuses for formation and insertion of tissue prosthesis
BRPI1001849 A2 20120306	BR2010PI01849 20100604	COMIL ANIBUS S A [BR]	B62D25/22	Aperfeiçoamentos introduzidos em rampa de acesso veicular
WO2012075541 A2 20120614	AU20100905415 20101209	COMMUNITY CONNECTIONS AUSTRALIA [AU]; WAY JEREMY [AU]	G06F15/00	A mobility aid system
AU2010306961 A1 20120503	US20090278814P 20091013; WO2010US52446 20101013	COOK MEDICAL TECHNOLOGIES LLC	A61F2/06	Paraplegia prevention stent graft
GB2482695 A 20120215	GB20100013438 20100811	COOPER ROBERT [GB]	A61G5/10	Detachable rain and/or sun canopy for a wheelchair
US2012143352 A1 20120607	US201113324839 20111213; US20070949018 20071130; US20060872287P 20061130	COYOTE DESIGN & MFG INC [US]	A61F2/78; B23P17/04	Trans tibial socket for external prosthesis
US2012066886 A1 20120322	US201113284028 20111028; US20070832750 20070802; US20050143129 20050603	CRONLEY GERALD [US]	F16L37/14; B23P17/04; F16L37/15	Quick-connecting coupler for hoses, pipes and faucets
EP2438895 A1 20120411	IT2010AN00172 20101006	CT ORTOPEDICO MARCHIGIANO S R L [IT]	A61G5/08; A61G5/12	An orthopedic wheelchair with articulated frame for disabled users

TWM429652U U 20120521	TW100224282U 20111222	CYCLING & AMP HEALTH TECH INDUSTRY R & AMP D CT [TW]	B62M7/00	Electric mobility bike for the disabled people
CN202198525U U 20120425	TW20100224349U 20101215	CYCLING & HEALTH TECH IND R&D	A47K11/04; A47K17/00	Electric toilet lift chair
KR20120009246 A 20120201	KR20100071294 20100723	DAEWOO BUS CORP [KR]	A61G3/06; B60P1/43; B60P3/00	Ramp for the wheelchair in the bus
CN202105112U U 20120111	CN20112219222U 20110615	DAGUANG HU	A61G5/00; A61G5/10	Vehicle-mounted wheelchair lifting table
JP2012065704 A 20120405	JP20100210674 20100921	DAINIPPON PRINTING CO LTD	A61H3/00	Walking assistance device, walking assistance method, walking assistance program, and the like
CN202181158U U 20120404	CN20112281127U 20110804	DALIAN VOCATIONAL & TECHNICAL COLLEGE	B66B25/00; B66B29/00	Escalator with manual low-speed adjusting function
WO2012071343 A1 20120531	US20100416078P 20101122	DALLEY SKYLER A [US]; VAROL HUSEYIN ATAKAN [US]; GOLDFARB MICHAEL [US]; UNIV VANDERBILT [US]	A61F2/58; A61F2/72	Control system for a grasping device
US2012150319 A1 20120614	US201113325556 20111214; US20100422815P 20101214	DALLOS LASZLO [US]; SNYDER LYNN [US]	A61F2/78	Limb prosthesis with a sealing member between a liner and a socket
US2012095570 A1 20120419	US20100907538 20101019	DAW IND INC	A61F2/74	Skin-like prosthesis cover having substantially permanently attached and releasably attached portions
EP2419056 A2 20120222	WO2010US24334 20100216; US20090168786P 20090413; US20090168793P 20090413	DEKA PRODUCTS LP [US]	A61F2/58	Arm prosthetic device system

EP2429459 A2 20120321	WO2010US24326 20100216; US20090168832P 20090413; US20090221858P 20090630	DEKA PRODUCTS LP [US]	A61F2/68	System, method and apparatus for control of a prosthetic device
WO2012036770 A2 20120322	US201113088063 20110415; US20100382665P 20100914	DEKA PRODUCTS LP [US]; EVANS CHRISTOPHER O [US]; PERRY N CHRISTOPHER [US]; VAN DER MERWE DIRK A [US]; VIOLETTE KEITH D [US]; COULTER STEWART M [US]; DOYON THOMAS A [US]; BLUMBERG JR DAVID [US]	A61F2/54; A61F2/00; A61F2/50; A61F2/58; A61F2/68; A61F2/70; A61F2/74; A61F2/76; A61F2/78; B25J17/02; F16D3/38	Arm prosthetic device
AU2010202819 A1 20120202	AU20100202819 20100706	DESAI KISHOR	A47K17/00	Toilet for the disabled
EP2447808 A1 20120502	IL20100208796 20101018	DEUTSCHE TELEKOM AG [DE]	G06F3/01; A61F4/00; G09B21/00	Apparatus for operating a computer using thoughts or facial impressions
CN202200304U U 20120425	CN20112156371U 20110517	DEZHENG ZHAO	B25J17/02; A61F2/54; A61F2/60	Closed lubricant bionic joint device
US2012055523 A1 20120308	US201113229337 20110909; US20100799715 20100430; US20070705394 20070212; US20050218354 20050902	DIAZ R GARY [US]	A61H3/02; B21D31/00	Mobility device
AT549132T T 20120315	US20090421413 20090409	DISNEY ENTPR INC [US]	B25J15/00; A61F2/54; A61F2/58	Robot hand with human-like fingers
NL1038393C C 20120522	NL20101038393 20101118	DIVERSITAT [NL]	A61G5/14	Device for the movement of persons with physical limitations
DE102011000559 A1 20120202	DE201110000559 20110208	DOENNIG-WAGENER VERENA [DE]	A47D13/00; A47D15/00; A61G7/07	Infant development aid for use as training aid for preventing movement

AT555766T T 20120515	SE20030000477 20030224; WO2004SE00032 20040115	DOLOMITE AB [SE]	A61H3/04; B65G17/38; B60T11/04; B62B5/04; B65G17/08; B65G17/40	Walking aid
DE202012101661U U1 20120601	DE201220101661U 20120504	DOMINIK AXEL [DE]	A61H3/04	Walker
KR20120040431 A 20120427	KR20100101847 20101019	DONG EUI UNIVERSITY INDUSTRY ACADEMIC COOPERATION FOUNDATION [KR]	A61F2/56; A61F2/68; A61F2/70; H02N10/00	Finger system in artificial hand with multiple degree of freedom and method for controlling the same
KR20120040438 A 20120427	KR20100101858 20101019	DONG EUI UNIVERSITY INDUSTRY ACADEMIC COOPERATION FOUNDATION [KR]	A61F2/56; A61F2/68; A61F2/70	Finger system in artificial hand with multiple degree of freedom
CN102319153 A 20120118	CN20111171092 20110623	DONG GENG	A61G5/06	Manual stair climbing vehicle
KR20120002743 A 20120109	KR20100063412 20100701	DONGHAE CORP [KR]; LEE HO SUNG [KR]	A61G7/057	A disabled person or old and the infirm physical convert support device has an air circulation function
KR20120002763 A 20120109	KR20100063435 20100701	DONGHAE CORP [KR]; LEE HO SUNG [KR]	A61G7/002; A61G5/00; A61G7/16	A handicapped person and old and infirm for bed chair has a slope control function
CN202168876U U 20120321	CN20112238961U 20110708	DONGPING MA	A61F5/14; A61F5/00; A61G7/057	Ankle function protecting cushion
EP2450854 A2 20120509	DE201010060389 20101105	DORMA GMBH & CO KOMMANDITGESELLSCHA FT [DE]	G07C9/00; E05B47/00; E05F15/10	Barrier-free access device for disabled persons
KR101104065B B1 20120112	KR20100099627 20101013	DUKYOUNG MC CO LTD [KR]	A61H3/02; A61H1/00; A61H3/04; G01S5/02	Crutch for auto moving possible position indicator

US2012090926 A1 20120419	US201113274209 20111014; US20100393973P 20101018; US201161513940P 20110801	DUNLAP THOMAS F [US]	B60T1/06; A61H3/04; B60T7/08; F16D63/00	Safety braking system for a hand-pushed rollator
CN202184872U U 20120411	CN20112302945U 20110819	DUNYI SUN	A61G5/00	Cardiological wheelchair
FR2963232 A3 20120203	FR20100003220 20100730	DURIEZ DIDIER MARIE MARCEL DOMINIQUE [FR]; BARREAU CHRISTOPHE [FR]	A61H3/04; A61G5/00	Walking assisting device e.g. Electric wheel chair, for person with motor disability of lower limbs, has nacelle for maintaining person in standing position, handle bar connected to front wheels, and control lever to control all round wheel
PL392296 A1 20120312	PL20100392296 20100902	DZIKOWICZ BOGUSLAW WIELOBRANZOWA BODZIK FA [PL]	A61G3/06	Vehicle for the transport of disabled people with a wheelchair
KR20120040881 A 20120430	KR20100102374 20101020	E & AMP A WELL CO LTD [KR]	A61G7/02; A61G7/047; A61G7/05	Patient bed having washing function
CN202128646U U 20120201	CN20102605137U 20101112	EAST CHINA NORMAL UNIVERSITY AFFILIATED YANGXING SCHOOL	A61G5/00; A61G5/10	Height adjustable wheelchair
JP2012029926 A 20120216	JP20100172824 20100730	ECHIGO KOGYO KK	A61G5/02; A61G5/00	Safety mechanism of wheelchair
JP2012055348 A 20120322	JP20100198408 20100904	ECHIGO KOGYO KK	A61G5/02; A61G1/00	Wheelchair
JP2012090670 A 20120517	JP20100238464 20101025	ECHIGO KOGYO KK	A61G5/00; A61G5/02	Cushion for wheelchair
TR201204922U U 20120521	TR20120004922U 20120427	ENGIN HUESEYIN [TR]	A61G3/06	Car lift for the disabled
JP2012115311 A 20120621	JP20100265190 20101129	EQUOS RES CO LTD	A61H3/00; A61H1/02	Walking device and walking program
JP2012115312 A 20120621	JP20100265191 20101129	EQUOS RES CO LTD	A61F2/70; A61F2/60; A61H3/00; B25J5/00; B25J13/00	Walking support device, and walking support program



JP2012115313 A 20120621	JP20100265192 20101129	EQUOS RES CO LTD	A61F2/72; A61H3/00	Walking support device, and walking support program
JP2012115314 A 20120621	JP20100265193 20101129	EQUOS RES CO LTD	A61H3/00	Walking support device and walking support program
DE102010036602 A1 20120126	DE201010036602 20100723	ERGO AGIL GMBH [DE]	A61H3/04	Walker, particularly wheeled walker, has chassis, handle which is connected to chassis and is designed to move walker by user, and three roller units fixed to chassis and on which walker is moved on surface
ES1077152U U 20120608	ES20110001085U 20111108	ESCALERA SOLER MANUEL [ES]	A61G5/00	Dispositivo de ayuda a discapacitados para el acceso a piscinas o superficies a distinto nivel
CA2756604 A1 20120429	CA20102719484 20101029; CA20112756604 20111028	EVOLUTION TECHNOLOGIES INC [CA]	A61H3/04; B60B19/00; B62B3/00; B62B3/02; B62B5/00; B62B5/04	Foldable walker apparatus
US2012032407 A1 20120209	US201113276518 20111019; US20080247781 20081008	EVOLUTION TECHNOLOGIES INC [CA]	B62B3/00; A61H3/04; B60T1/04; B62B5/04; F16D65/14	Foldable walker apparatus
EP2420211 A1 20120222	EP20100173612 20100820	F G P SRL [IT]	A61F2/60; A61F2/64; A61F2/66	Joint for orthopedic articulations, such as ankle, knee and elbow braces or the like
CN202151421U U 20120229	CN20112213903U 20110615	FANGMIN CHEN	A61H3/02; A61H1/02	Special crutch for high-level paraplegic patient
CN202184878U U 20120411	CN20112314334U 20110826	FANGQIANG WU	A61G7/015; A61G7/075	Leg fracture patient nursing and treatment bed for orthopedic surgery
JP2012020022 A 20120202	JP20100161165 20100716	FI ENGINEERING KK	A61G5/02	Brake device of wheelchair
JP2012034764 A 20120223	JP20100176051 20100805	FI ENGINEERING KK	A61G5/02	Wheelchair rear wheel rotation stop device

US2012153657 A1 20120621	US201213404532 20120224; US201113093192 20110425; US20100696584 20100129; US20090148108P 20090129	FIRST LINE TECHNOLOGY LLC [US]	A61G1/06; A61G3/00; B23P11/00	Bus stretcher conversion kit
DE202011107815U U1 20120126	DE201120107815U 20111112	FITZKO KURT [DE]	A61G5/10	Einkaufshilfe für rollstuhlfahrer und rollatorbenutzer
EP2437712 A2 20120411	WO2010GB01046 20100527; GB20090009522 20090603	FLETCHER RICHARD [GB]	A61G5/10	Compact wheelchair platform
CN202113246U U 20120118	CN20112107023U 20110412	FOSHAN DAYANG MEDICAL TECHNOLOGY CO LTD	A61G5/02; A61G5/10	Hand-operated wheelchair
CN202122679U U 20120125	CN20112183954U 20110601	FOSHAN R POON MEDICAL PRODUCTS CO LTD	A61H3/02	Walking stick
WO2012070322 A1 20120531	JP20100261423 20101124; JP20110176678 20110812	FRANCE BED CO [JP]; OOYAMA KEI [JP]	A61G5/02; A61G5/00	Wheelchair with brake
EP2448527 A1 20120509	WO2010EP03925 20100628; DE200910030995 20090630	FRAUNHOFER GES FORSCHUNG [DE]	A61F2/66; A61F2/68	Active prosthesis device with terrain detection, and method for controlling an active prosthesis device
WO2012009319 A2 20120119	US201113179145 20110708; US20100363679P 20100713	FREEDOM INNOVATIONS LLC [US]; CHRISTENSEN ROLAND J [US]	A61F2/66; A61F2/68; A61F2/76	Bifurcated, multi-purpose prosthetic foot
WO2012005856 A2 20120112	US20100826174 20100629	FREEDOM INNOVATIONS LLC; CHRISTENSEN ROLAND J [US]; GUERINOT ALEXANDRE E [US]	A61F2/66; A61F2/68	Prosthetic foot with floating forefoot keel

DK2262460T T3 20120326	EP20080004149 20080306; WO2009EP01100 20090217	FREEDOM OF MOVEMENT CVBA [BE]	A61G3/06	Universal lift for the transport of a load into and out of a vehicle
AT544632T T 20120215	US20030473674P 20030527; US20040547514P 20040225; WO2004US16752 20040527	FREEDOM SCIENCES LLC [US]	B60P3/06; A61G3/06; A61G3/08; B60P3/073	Device for fixing a passenger transport vehicle to an mounting surface
TWM421115U U 20120121	TW100216769U 20110907	FREERIDER CORP [TW]	A61G5/10; B62K21/06	Handle steering device of vehicle
CN202096375U U 20120104	CN20112194189U 20110610	FU DU	A61G5/06; A61G5/10	Stair wheelchair
TW201205342 A 20120201	TW20100124252 20100723	FU YU-FEN [TW]	G06F3/01; G06N3/02	A novel input method for finger language
CN202136502U U 20120208	CN20112253256U 20110718	FUBIN DU	A61G5/00	Multifunctional wheel chair
JP2012085829 A 20120510	JP20100235057 20101020	FUKUMITSU TEKKO KK	A61G5/00; A47C7/00; A47C7/62; A61G7/05; A61G12/00	Prone condition sitting posture assisting apparatus
BRPI1001991 A2 20120306	BR2010PI01991 20100610	FUNDACAO CPQD CT DE PESQUISA E DESENVOLVIMENTO EM TELECOMUNICACOES [BR]	G09B7/00; G06F17/30	Sistema de serviços de governo eletrônico com garantia de acesso universal utilizando método de identificação automática de perfis de usuários
RU2445057 C1 20120320	RU20100150058 20101206	G OBRAZOVATEL NOE UCHREZHDENIE VYSSHEGO PROFESSIONAL NOGO OBRAZOVANIJA NOVGORODSKIJ GU IM JAROSLAVA [RU]	A61G5/02	Diversified transport means for disabled people

US2012013102 A1 20120119	US201113184493 20110716; US20100365333P 20100718	GAO FRANK FANG [US]	A61G5/10	Sliding seat for wheelchair occupant to enter and exit motor vehicles
CN102379782 A 20120321	CN20111238793 20110819	GEELY AUTOMOBILE INST CO LTD; ZHEJIANG GEELY INT CORP	A61G3/08	Wheelchair fixing system for fixing wheelchair on vehicle
TWM422418U U 20120211	TW100219820U 20111021	GENTRY WAY CO LTD [TW]	A61H3/02	Walking aid structure
CN102357049 A 20120222	CN20111346755 20111105	GEPING CHEN; GUILIN AILIKE ELECTRIC CONTROL INTELLIGENT VEHICLE INDUSTRY MFG CO LTD	A61G5/04; A61G5/02; A61G5/10	Small wheel diameter electric manual wheelchair
WO2012022781 A1 20120223	DE201010034880 20100819	GINGEL HORST [DE]	A61F2/60	Leg prosthesis
WO2012083367 A1 20120628	AU20100905602 20101222; US201161484426P 20110510	GO FORWARDS CO PTY LTD [AU]; GUNSTONE HAYDN JAMES [AU]; O'DONOHUE BEAU [AU]	A61H3/02; A45B1/00; A47G25/12	Crutch holder
KR20120011149 A 20120207	KR20100072768 20100728	GO KIL HWIN [KR]	A61G5/04; A61G5/02; A61G5/08; A61G5/10	Wheelchair for both electric steering and manual steering
BRPI0905023 A2 20120502	BR2009PI05023 20091117	GOMES ANTONIO JOSE [BR]	F24C15/36; A47J36/36	Dispositivo para fixar utensilios em fogão doméstico
EP2463456 A1 20120613	ES20090030566 20090806; WO2010ES70421 20100623	GOMEZ VARELA VICENTE MIGUEL [ES]	E04F11/00; A61G3/06; B65G69/30; E04C2/40; E04F11/02; E06C1/38	Adjustable ramp ladder with alternating steps
TWM425660U U 20120401	TW100220566U 20111101	GONG FU CHEN [TW]	A61G7/14	Assisting device for getting out of bed
TWM431696U U 20120621	TW100221656U 20111116	GONG FU CHEN [TW]	A61G5/00	Storage auxiliary wheelchair device
TWM423720U U 20120301	TW100220569U 20111101	GONG FU-CHEN [TW]	E04F11/18; A61G5/06	Movable ancillary hand grip device

EP2451419 A1 20120516	WO2010GB01283 20100702; GB20090012000 20090710	GORDON CUSACK ARTHUR [GB]	A61G7/02	Toilet facility for a patient
EP2456404 A1 20120530	US20090227165P 20090721; WO2010US42543 20100720	GORDON JULIAN D [US]	A61G7/14	Single source assembly for home care of physically impaired
DE102010039698 A1 20120301	DE201010039698 20100824	GRUNDEI HANS [DE]; S & G IMPLANTS GMBH [DE]	A61F2/76; A61F2/60	Conversion adapter for coupling extracorporeal orthopedic knee joint to rigid transcutaneous implant for patient, has locking body, cone sleeve and torsion plate whose marginal torsional moment is preselected by material selection
CN202184874U U 20120411	CN20112265493U 20110726	GUANGAN FU	A61G5/10	Adjusting device for pedal frame of wheelchair
CN102327164 A 20120125	CN20111205446 20110721	GUANGQIAN GUO	A61G5/06	Wheelchair capable of automatically going upstairs and downstairs
CN202154808U U 20120307	CN20112259676U 20110721	GUANGQIAN GUO	A61G5/06; A61G5/10	Wheel chair capable of going upstairs and downstairs by itself
JP2012029988 A 20120216	JP20100173868 20100802	GUNJI KK	A61G5/02	Wheel lock device for wheelchair
KR20120040800 A 20120430	KR20100102234 20101020	HA JAE CHUL [KR]	A61F2/64; A61F2/60; A61F2/68	Artificial knee joint for prosthetic leg user
DE202011108663U U1 20120316	DE201120108663U 20111206	HAACKE MARK [DE]	A61G5/02; A61G5/10	Self-propelled wheelchair for hemiparesis and niklekt patients with optimized directional stability and knee and foot steering
DE102010046856 A1 20120329	DE201010046856 20100929	HAMPE UDO [DE]	A61G5/02; B62M1/04	Joint drive
CZ23671U U1 20120418	CZ20120025747U 20120313	HAMPL PETR [CZ]	A61H3/04	Rehabilitation walking frame
KR20120025916 A 20120316	KR20100088106 20100908	HAN KYUNG HEE [KR]	A61H3/04; A61H3/00	Power walker

KR20120051626 A 20120522	KR20120038716 20120413	HAN MED CO LTD [KR]	A63B22/14; A63B23/02; A63B23/16	A three-dimensional exercising equipment for elderly and severely disabled users is provided to enable the users to exercise their body and improve their balance
NL2005467C C 20120411	NL20102005467 20101006	HANDICARE B V [NL]	A61G5/12	Rolstoel.
NL2005469C C 20120411	NL20102005469 20101006	HANDICARE B V [NL]	A61G5/12	Rolstoel.
CN202115409U U 20120118	CN20112206649U 20110620	HANG ZHANG	B60P3/00; B60S9/04	Dual-purpose electric vehicle capable of being used as transport tool for disable persons and used for mobile services
US2012143351 A1 20120607	US201113306424 20111129; US20100418724P 20101201	HANGER ORTHOPEDIC GROUP INC	A61F2/80	Vacuum prosthesis with force sensing member
KR20120053490 A 20120525	KR20120046685 20120503	HANGUK JONGHAP ARCHITECTS & AMP ENGINEERS ASSOCIATES [KR]	E04F11/04	Hybrid lift-stairs for a disabled person and a baby and transferring method of movement assisting device by it
KR20120034335 A 20120412	KR20100095809 20101001	HANHOTECH CO LTD [KR]; MAROROBOT CO LTD [KR]	A61H3/04; A61H3/00	Electronic mobile apparatus assisting a walk
KR20120026338 A 20120319	KR20100088495 20100909	HANLAB CORP [KR]	A61G5/04; A61G5/10	Power wheelchair having both front wheel drive and rear wheel drive transformable
JP2012105976 A 20120607	JP20100251252 20101020; JP20110239590 20111012	HASE MUNEYOSHI	A61G5/00	Wheelchair for care
US8206458 B1 20120626	US20100695233 20100128	HAWKINS RYAN [US]	A61F2/74; A61F2/64; A61F2/66	Prosthetic system
NL2005387C C 20120326	NL20102005387 20100923	HAZELEGER INVEST B V [NL]	A61G5/10; A61G5/14	Auxiliary device for a wheelchair
WO2012039604 A1 20120329	NL20102005727 20101119; NL20102005387 20100923	HAZELEGER INVEST B V [NL]; HAZELEGER PASCAL WILLEM RICHARD [NL]	A61G5/10; A61G5/14	Assist device with standing aid for adding to a wheelchair, a wheelchair integrated with such an assist device and method for manufacture thereof

US2012144586 A1 20120614	US201213400363 20120220; US20090429349 20090424; US20070874273 20071018; US20060351720 20060210; US20040998329 20041123; US20030431205 20030507; US20010022552 20011217; US19990434948 19991105; US19990154089P 19990915	HEIMBROCK RICHARD H [US]; WEBSTER THOMAS M [US]; VOGEL JOHN [US]	A61G7/08; B62B3/02; A47C21/00; A61G1/02; A61G7/012; B62B3/00; B62B5/00	Patient support apparatus with powered wheel
TR201009466 A2 20120521	TR20100009466 20101112	HEKSAGON MUEHENDISLIK VE TASARIM ANONIM SIRKETI [TR]	B60P1/43; A61G3/06	Mechanism of a ramp
SE1001008 A1 20120414	SE20100001008 20101013	HELLSTROEM THOMAS [SE]	B62B5/04; A61H3/04; G08G1/16	Control equipment for wheeled walking aids
WO2012065819 A1 20120524	DE201010044115 20101118	HENKEL AG & CO KGAA [DE]; BARRIAU EMILIE [US]; BILCAI EUGEN [DE]; WELTERS TIM [DE]; KNOPF MICHAEL [DE]; KREBS BERND [DE]	F16B11/00; A61G5/10; C09J163/00	Method for manufacturing wheelchairs and wheelchair manufactured by said method
US2012136459 A1 20120531	US201113299953 20111118; US20030671329 20030925	HERR HUGH [US]; BLAYA JOAQUIN [CL]; PRATT GILL A [US]	A61F2/68; A61B5/103; A61F5/01	Active ankle foot orthosis
JP2012065838 A 20120405	JP20100212911 20100923	HI LEX CORP	A61G3/00; B66D1/12; B66D1/54; B66D1/60	Winch device for wheelchair

JP2012095753 A 20120524	JP20100244584 20101029	HI LEX CORP	A61G3/08	Wheelchair fixing device
JP2012095810 A 20120524	JP20100245325 20101101	HI LEX CORP	A61G3/08; B60P3/00; B60P7/06; B60P7/08	Wheelchair fixing device
JP2012096857 A 20120524	JP20100243664 20101029	HI LEX CORP	B66D1/14; A61G3/02; B66D1/12; B66D1/60; B66D5/32	Winch device, and assist apparatus for getting on and off wheelchair
CN202191421U U 20120418	CN20112318608U 20110829	HIGH SCHOOL AF FUDAN UNIV	A61G5/00	Multifunctional wheel chair
CN202113245U U 20120118	CN20112161531U 20110516	HL CORP SHENZHEN	A61G5/00; A61G5/10	Dual-purpose wheelchair structure
TWM419529U U 20120101	TW100207923U 20110504	HL CORP SHENZHEN CO LTD [CN]	A47K11/04	Structure of dual-use wheelchair
TW201214189 A 20120401	TW20100132936 20100929	HON HAI PREC IND CO LTD [TW]	G06F21/00; G06K9/78	Electronic device and display control method thereof
US2012137242 A1 20120531	CN20101565882 20101130	HON HAI PREC IND CO LTD [TW]; FU TAI HUA IND SHENZHEN CO LTD [CN]	G06F9/00; G06F3/048	Computer system and control method thereof
JP2012005817 A 20120112	JP20100119793 20100525; JP20100265765 20101129	HONDA ACCESS KK	A61G3/00; A61G7/10; B60P1/54; B60P3/00	Vehicle getting-on-and-off assisting device
JP2012081124 A 20120426	JP20100230598 20101013	HONDA MOTOR CO LTD	A61H3/00	Walking assist device
JP2012081126 A 20120426	JP20100230653 20101013	HONDA MOTOR CO LTD	A61H3/00	Walking assistance device
ES2378689T T3 20120417	JP20050307843 20051021; WO2006JP320190 20061010	HONDA MOTOR CO LTD [JP]	B62K5/00; A61G5/04; B62D25/18; B62J15/00; B62J17/06; B62J25/00	Vehículo de tamaño pequeño



ES2382739T T3 20120613	JP20040044569 20040220; JP20040044570 20040220; JP20040044571 20040220	HONDA MOTOR CO LTD [JP]	A61G5/04; B62K5/00; B62M7/00	Vehículo eléctrico de tamaño pequeño
JP2012000394 A 20120105	JP20100140989 20100621	HONDA MOTOR CO LTD; HONDA R & D SUN CO LTD	A61G5/02	Racing wheelchair
JP2012019821 A 20120202	JP20100157882 20100712	HONDA R & D SUN CO LTD; HONDA MOTOR CO LTD	A61G5/02; B62K19/16; B62K21/02	Athletic wheelchair
CN202179643U U 20120404	CN20112141381U 20110506	HONGDONG LI	A61G5/06	Stair-climbing wheelchair
CN202200811U U 20120425	CN20112340206U 20110913	HONGGUANG LV	B60J5/06; A61G3/00	Automatic turnover car door and hospital car provided with same
CN202151390U U 20120229	CN20112245317U 20110706	HONGLING ZHOU	A61F5/045; A61G7/065	Orthopedic press preventing support for traction rope
US2012053498 A1 20120301	US201113290980 20111107; US20100860735 20100820; US20080205705 20080905; US20050221452 20050907; US20030704483 20031106; US20030485882P 20030708; US20020429289P 20021125	HORST ROBERT W [US]	A61F5/00; A61H3/00	Intention-based therapy device and method
CA2785068 A1 20120105	CN20101217657 20100629; WO2011CN76240 20110624	HUANG CHUNMING [CN]	A61G5/00; A61F5/44	Automatic wheelchair-type feces cleaner without need of undressing and dressing

TWM427936U U 20120501	TW100219884U 20080701	HUANG JIN-QUN [TW]	A61H3/02	Structure of walking stick
TWM424940U U 20120321	TW100216979U 20110909	HUANG MIAO-YUAN [TW]	A61H3/04	Walking-aid vehicle with improved brake device
TWM424941U U 20120321	TW100216981U 20110909	HUANG MIAO-YUAN [TW]	A61H3/04	Foldable walking-aid vehicle
TWM424942U U 20120321	TW100216982U 20110909	HUANG MIAO-YUAN [TW]	A61H3/04	Walking-aid vehicle with shock-absorbing device
TWM424943U U 20120321	TW100216984U 20110909	HUANG MIAO-YUAN [TW]	A61H3/04	Walking-aid vehicle with bi-directionally adjustable seat
TWM424944U U 20120321	TW100216985U 20110909	HUANG MIAO-YUAN [TW]	A61H3/04	Easily-foldable walking-aid vehicle
TWM424945U U 20120321	TW100216986U 20110909	HUANG MIAO-YUAN [TW]	A61H3/04	Bi-directionally walking-aid vehicle
TWM422960U U 20120221	TW100221048U 20111108	HUANG SHUN-NAN [TW]	A61G5/02	Structure of walking aid appliance
TWM421114U U 20120121	TW100214992U 20110812	HUNG CHENG-HUNG [TW]; MOVENTION CORP [TW]	A61G5/08	Structure of adjustable folding dual-backrest for wheelchair
KR20120044830 A 20120508	KR20100106345 20101028	HYUNDAI MOTOR CO LTD [KR]	A61H3/04; A61H3/00; G01C22/00	Walking-assistance apparatus
KR20120053894 A 20120529	KR20100115247 20101118	HYUNDAI MOTOR CO LTD [KR]	B25J5/00; A61H3/00; B25J18/00	Wearable robot structure
KR20120062540 A 20120614	KR20100123840 20101206	HYUNDAI MOTOR CO LTD [KR]	A61H3/00; A61H1/02; A63B23/04	Walking system for wearable two-legged robot
WO2012077141 A1 20120614	WO2010IT00489 20101207	I N A I L ISTITUTO NAZ PER L ASSICURAZIONE CONTRO GLI INFORTUNI SUL LAVORO [IT]; BOCCAFUGLI ENRICO [IT]	A61F2/66	Prosthesis join, particularly of the type of an ankle
KR20120006382 A 20120118	KR20100067077 20100712	ICHIKAWACREER CO LTD [KR]	A47K10/36; A47K10/38	Toilet paper hanger for handicapped person or a disabled person
WO2012036131 A1 20120322	JP20100204197 20100913	IDEA SYSTEM CO LTD [JP]; KOBAYASHI MUTSUMI [JP]; KOBAYASHI HIROSHI [JP]; MIYAZAWA HIROSHI [JP]	A61G5/02; A61G5/00	Wheelchair for caregiving

WO2012035295 A1 20120322	GB20100015271 20100914	IMAGINE LTD I [GB]; SLORANCE ANDREW MACKAY [GB]	A61G5/10; A61G5/02; A61G5/12	Improvements relating to wheelchairs
JP2012011164 A 20120119	JP20100125045 20100531; JP20100194414 20100831	IMASEN ELECTRIC IND	A61G5/04; A61G3/00; B60N2/24; B60N2/32	System for automatically operating electric wheelchair
JP2012045359 A 20120308	JP20100172515 20100730; JP20100243097 20101029	IMASEN ELECTRIC IND	A61G3/00; B60N2/06; B60N2/14; B60N2/16	Lift-up device
JP2012046160 A 20120308	JP20100172514 20100730; JP20100219165 20100929	IMASEN ELECTRIC IND	B60N2/14; A61G3/00; B60N2/06; B60N2/16; B60N2/32; B60N2/44	Seat device and lift-up device
JP2012071094 A 20120412	JP20100194421 20100831; JP20100267176 20101130	IMASEN ELECTRIC IND	A61G3/00; A61G5/04	Electric wheelchair and rotation lift device
JP2012090943 A 20120517	JP20100219168 20100929; JP20100267177 20101130	IMASEN ELECTRIC IND	A61G3/00; B60N2/14	Lift up seat for vehicle
BRMU9000475U U2 20120117	BR2010MU9000475U 20100412	IND E COM DE PLASTICOS CAJOVIL LTDA [BR]	B65H75/34	Suporte para picolé e sorvete
TW201215383 A 20120416	US20100392943P 20101014; TW100115180 20110429; TW100131335 20110831	IND TECH RES INST [TW]	A61G7/10; A61G7/14	Patient lift apparatus and patient lift service dispatch system
KR101102361B B1 20120103	KR20110003126 20110112	INDUK INST OF TECHNOLOGY [KR]	A61G5/04; A61G5/02; A61G5/10	Motor driven and manually driven wheelchair

WO2012026870 A1 20120301	SE20100050869 20100824	INTEGRUM AB [SE]; BRAANEMARK RICKARD [SE]; CATALAN MAX JAIR ORTIZ [SE]	A61F2/02; A61F2/28; A61F2/68	A percutaneous gateway, a fixing system for a prosthesis, a fixture and connecting means for signal transmission
DE102010037808 A1 20120329	DE201010037808 20100928	INTERCO GES FUER DIE PLANUNG UND DEN VERTRIEB VON REHA HILFEN MBH [DE]	A61G5/10	A seat assembly, e.g. Wheelchair, with dynamic seat
DE102010037809 A1 20120329	DE201010037809 20100928	INTERCO GES FUER DIE PLANUNG UND DEN VERTRIEB VON REHA HILFEN MBH [DE]	A61G5/12	A seat assembly, e.g. Wheelchair, with swiveling footrest
AU2010303354 A1 20120426	US20090250222P 20091009; WO2010US51888 20101008	INVACARE CORP	A61G5/06	Wheelchair suspension
AT556688T T 20120515	US20070900137P 20070208	INVACARE CORP [US]	A61G5/06; A61G5/04; A61G5/10	Wheelchair suspension
EP2409674 A2 20120125	EP20020775917 20020920; US20010974348 20011010	INVACARE CORP [US]	A61G5/06; A61G5/04	Wheelchair suspension
ES2372479T T3 20120120	US20010044826 20011019	INVACARE CORP [US]	A61G5/06; A61G5/04	Suspension de silla de ruedas con montaje de pivotamiento del motor.

US2012143393 A1 20120607	US201113311140 20111205; US20060514016 20060831; US20050712987P 20050831; US20050727005P 20051015; US20050726983P 20051015; US20050726666P 20051015; US20050726981P 20051015; US20050726993P 20051015; US20050727249P 20051015; US20050727250P 20051015	INVACARE CORP [US]	A61G5/10; A61G5/04; G06F3/01; G06F19/00	Method and apparatus for setting or modifying programmable parameter in power driven wheelchair
AT553738T T 20120515	EP20050405564 20050929; WO2006IB53517 20060927	INVACARE INT SARL [CH]	A61G5/10; A61G5/12	Device for adjusting the seat back angle in a wheelchair and a wheelchair comprising such a device
AT555764T T 20120515	EP20090160786 20090520	INVACARE INT SARL [CH]	A61G5/10	Backrest for wheelchair
EP2403462 A1 20120111	WO2010IB50894 20100302; EP20090154143 20090302; EP20100708632 20100302	INVACARE INT SARL [CH]	A61G5/04; A61G5/10	Motorized wheelchair

EP2403463 A1 20120111	WO2010IB50895 20100302; EP20090154153 20090302; EP20100708633 20100302	INVACARE INT SARL [CH]	A61G5/10; A61G5/04; A61G5/08	Motorized wheelchair with anti-tip wheels
EP2460501 A1 20120606	EP20100193680 20101203	INVACARE INT SARL [CH]	A61G5/10	Wheelchair with thread-based adjustment of the wheelbase and/or height
WO2012057595 A1 20120503	WO2010MX00118 20101026	ITESM [MX]; MOTIONMECHANICS S A DE C V [MX]; MOTO NUNEZ JORGE ARTURO [MX]; MALDONADO GARCIA RAZIEL ALBERTO [MX]; GARCIA MONTELONGO HECTOR ALEXANDRO [MX]; INZUNZA LEON ARTURO [MX]; VEGA ROMERO ROBERTO IVAN [MX]	A61H3/00	Variable stair and ramp system for rehabilitating the lower limbs
JP4921585B1 B1 20120425	JP20100285119 20101203	IWATA EIKO	A61H3/02	Cane, knee pad component to be attached to the cane, foot holding component, and usage of cane
GB2485654 A 20120523	GB20100019025 20101111	JAKEMAN EDWARD ERNEST [GB]	A61G5/02; A61G5/10	Wheelchair with lever operated propulsion units
TWM421112U U 20120121	TW100212067U 20110701	JANG HAU-TANG [TW]; KU YI [TW]	A61G5/06	Wheelchair auxiliary device with function of stepping over obstacles
KR20120050858 A 20120521	KR20100112318 20101111	JEONG CHAE GWUN [KR]; JEONG JUN HYEOK [KR]	A61H3/02	Variable length crutches
KR20120006416 A 20120118	KR20100067128 20100712	JEONG JI MAN [KR]	B64D11/06; A61G3/08; A61G5/10; B60N2/32	Airplane seat comfortable for handicapped person
PL392116 A1 20120213	PL20100392116 20100811	JEZIERSKA KARINA [PL]; KATER STANISLAW [PL]	A61H3/04; A61H1/02; A63B23/04	Individual standing frame

US8172023 B1 20120508	US201113044098 20110309; US20090464218 20090512	JGI HOLDINGS LLC [US]	B62K15/00; A47C7/50; A61G5/10	Personal mobility device
CN102345415 A 20120208	CN20101247747 20100803	JIANFENG ZHAO	E05B19/00	Key sleeve handle
CN102415930 A 20120418	CN20111180127 20110630	JIANGSU MIDCOMM INFORMATION TECHNOLOGY CO LTD	A61G7/00; A61F5/045; A61G7/05; A61H33/06	Intelligent physiotherapy couch
CN202154771U U 20120307	CN20112257114U 20110720	JIANWEN CHEN; JIANCHENG CHEN	A61F2/64	Knee joint device
CN102335087 A 20120201	CN20111196889 20110714	JINDONG JIA	A61H3/02	Adjustable crutch
CN202136499U U 20120208	CN20112234995U 20110706	JINGTAI GAO	A61G5/00; A61G5/10	Wheelchair
CN202136031U U 20120208	CN20112241502U 20110711	JINGYUN SONG	A47C31/00	Safe armrest of sofa or chair
CN202136500U U 20120208	CN20112237953U 20110707	JINHONG ZHOU	A61G5/00; A61G5/10	Balance adjustable wheel chair
CN202154805U U 20120307	CN20112242503U 20110709	JINHUA ACEME ELECTRIC CO LTD	A61G5/04; A61G5/10	Electric wheelchair with quickly assembled and disassembled batteries
CN202107982U U 20120111	CN20112149296U 20110429	JINKUN ZHOU	E01D1/00; E01D19/00; E01D19/02; E04B2/88; E04D13/18; H02N6/00	Footbridge
CN202191422U U 20120418	CN20112310477U 20110824	JUGUO DING	A61G5/04; A61G5/10	Wheelchair with seat handlebars and seat capable of controlling directions
CN202105048U U 20120111	CN20112199281U 20110529	JUNCHEN ZHOU	A61F2/50	Nose prosthesis
KR20120027836 A 20120322	KR20100089638 20100913	JUNG JIN WOO [KR]	A45B9/02; A45B1/00; A61H3/02	Walking stick and crutch
CN202122658U U 20120125	CN20112161953U 20110520	KAI XU	A61G5/04	Novel kinetic energy wheelchair
JP2012020827 A 20120202	JP20100159179 20100713	KAKIUCHI AKIRA	B66F7/06; A61G3/00	Lifter for installation type wheelchair

US2012068422 A1 20120322	WO2009JP54192 20090305	KANAOKA KATSUYA [JP]	A61H3/00; B25J5/00; B25J13/04	Two-legged walking transportation device
KR20120027741 A 20120322	KR20100089504 20100913	KANG JONG HO [KR]	A61G5/10; A61G5/12	Auxiliary support for wheelchair
KR20120027744 A 20120322	KR20100089508 20100913	KANG JONG HO [KR]	A61G5/10; A61G5/12	Auxiliary support for wheelchair
KR20120032857 A 20120406	KR20100094399 20100929	KANG JONG HO [KR]	A61G5/10; A47B83/02; A47C7/68	Auxiliary apparatus for wheelchair
AT542512T T 20120215	JP20060132274 20060511	KANTO JIDOSHA KOGYO KK [JP]	A61G5/04; A61G5/10	Motorized wheelchair
US2012018982 A1 20120126	US20100840536 20100721	KARMA MEDICAL PROD CO LTD [TW]	A61G5/08	Folding device for wheelchair
WO2012020325 A1 20120216	LT20100000057 20100810	KASKO GROUP UAB [LT]; VAINUTIS REMIGIJUS [LT]; VAINUTIS MARTYNAS [LT]	A61G5/10	Special work and rest chair, intended to be used for people (especially for children) with locomotor disability, particularly in case of cerebral paralysis (palsy)
WO2012071518 A1 20120531	US20100458477P 20101124; US201161549851P 20111021	KATEZLIFT INC [US]; BRUESTLE TOD A [US]; BORCHERT DONALD T [US]	A61G5/10	Wheel chair lift system and method
JP2012110497 A 20120614	JP20100261698 20101124	KAWASAKI HEAVY IND LTD	A61H3/00; A61F2/60; B25J5/00	Wearable motion assistance device
WO2012070244 A1 20120531	JP20100261698 20101124; JP20110040758 20110225; JP20110040759 20110225; JP20110199617 20110913; JP20110207370 20110922	KAWASAKI HEAVY IND LTD [JP]; KAMON MASAYUKI	A61H3/00; A61F2/60; B25J5/00	Wearable motion assistance device
JP2012061146 A 20120329	JP20100207999 20100916	KAWAZOE HITOSHI	A61G5/00; A61G5/02	Wheelchair for care



DE202012101624U U1 20120523	TW100208767U 20110517	KEN DALL ENTPR CO [TW]	A61F2/78	Verstellbares anschlussstück für eine prothese
US2012126513 A1 20120524	US201113300465 20111118; US20100415326P 20101118	KENT RICHARD VINCENT [US]; SUMMERS WAYNE [US]	A61G5/08	Adjustable wheelchair
CN202146396U U 20120222	CN20112212406U 20110622	KEYAN WU; LING WAN; WENHAO XU; AILING SUN; CHANGQING LIU	A61F13/15	Special briefs for women with no self-care ability in menstrual period
KR20120063728 A 20120618	KR20100124827 20101208	KIM DOO ILL [KR]	B60L8/00; H02J7/35	Solar cell charging apparatus for electric scooter for disable person
KR20120020212 A 20120308	KR20100083200 20100827	KIM GA YEONG [KR]	A45B3/00; A45B9/00; A61H3/00; A61H3/06	Stick for disabled person having navigation
WO2012086907 A2 20120628	KR20100133139 20101223	KIM IN-KYUM [KR]; PARK BU GUN [KR]	A61G7/047; A61G7/05; A61G7/08; A61G7/16	Bath chair for aiding the bathing and moving of an immobile person
KR20120049091 A 20120516	KR20100110688 20101108	KIM JUNG YOUL [KR]	A61G7/05; A61G7/047	A bed a bath chair having been built in
KR101144747B B1 20120524	KR20110099776 20110930	KIM KI JUN [KR]	A61G7/047; A61G7/002; A61G7/018	A bed with bathtub
KR20120004279 A 20120112	KR20100065053 20100706	KIM MIN HAN [KR]	G09B7/02; G09B5/02; G09B11/00	Learning systems
KR20120012560 A 20120210	KR20100074571 20100802	KIM SE GON [KR]	A61H3/00; A61H3/04	Safe jacket for walking assistance device
US2012060877 A1 20120315	US20100807795 20100915	KIRBY AVERY [US]	A61H3/00	Walker with removable combined utility tray and seat
KR101159702B B1 20120626	KR20110031970 20110407	KNU INDUSTRY COOPERATION FOUND [KR]	A61G5/10; A61G7/14; A61G7/16	Functional wheelchair
TR201201791U U 20120621	TR20120001791U 20120217	KOCABAY ERDEM [TR]	A61G3/06; B60P1/43; E04G27/00	Lightweight ramp
KR20120062375 A 20120614	KR20100123605 20101206	KOREA ADVANCED INST SCI & TECH [KR]	A61F5/052; A61H3/00	Knee orthosis of modulus of elasticity control type and optimizing mehtod for walking enery using same

AT554734T T 20120515	KR20050102368 20051028	KOREA ELECTRONICS TELECOMM [KR]	A61F4/00; A61B5/00	Apparatus and method for controlling vehicle by teeth-clenching
KR20120064571 A 20120619	KR20100125854 20101209	KOREA ELECTRONICS TELECOMM [KR]	A61H3/00; A61H1/02	Apparatus and method for controlling walking assist robot using an electromyograph signals
KR101155369B B1 20120619	KR20110077388 20110803	KOREA IND TECH INST [KR]	A61G12/00; A47K3/12; A61G7/047	Headrest for shower carrier
KR20120014430 A 20120217	KR20100076486 20100809	KOREA IND TECH INST [KR]	A61G7/047; A61G7/05	Bed type showering device for patient
KR20120019841 A 20120307	KR20100083364 20100827	KOREA IND TECH INST [KR]	A61G7/047; A61G7/05	Senior friendly shower carrier
KR20120065470 A 20120621	KR20100126618 20101213	KOREA IND TECH INST [KR]	B25J5/00; A61H3/00; B25J19/00	Wearable robotic system and method for controlling wearable state
KR20120065644 A 20120621	KR20100126881 20101213	KOREA IND TECH INST [KR]	A61F2/78; A61F2/60; A61F2/80; A61F13/00	Silicone socket liner for artificial limb
WO2012074297 A2 20120607	KR20100120321 20101130; KR20110077388 20110803; KR20110098005 20110928; KR20110118317 20111114	KOREA IND TECH INST [KR]; KO CHEOL WOONG [KR]; CHUN KYEOUNG JIN [KR]; KIM SOO TAEK [KR]; CHO DEOK YEON [KR]; KWAK YEONG CHAN [KR]	A61G7/047; A47K3/12; A61G7/015; A61G7/018; A61G12/00	Senior-friendly shower carrier
KR20120068135 A 20120627	KR20100129593 20101217	KOREA RES INST OF STANDARDS [KR]	G09B21/00; G09B5/00; G09B23/14	Learning method using sound wave analysis
KR20120044653 A 20120508	KR20100106068 20101028	KOREA WORKERS ACCIDENT MEDICAL CT [KR]	A61G5/04; A61G5/02; A61G5/10	Mounting structure for manual wheelchair power assistive device
US2012143350 A1 20120607	WO2009KR07071 20091130	KOREA WORKERS COMPENSATION & WELFARE SERVICE [KR]	A61F2/78	Connection structure of artificial limb and socket, using magnetic locking device
CZ23985U U1 20120627	CZ20120025836U 20120329	KOTAS MILOS [CZ]	A61H3/02; A61H3/04	Spring-loaded general purpose adapter for underarm crutches, supporting crutches and forearm crutches

JP2012010801 A 20120119	JP20100148311 20100629	KOWA SEISAKUSHO KK	A61H3/00	Walking aid device
DE202012000021U U1 20120124	DE201220000021U 20120103	KRAEKE MASCHB UND DIENSTLEISTUNGS GMBH [DE]	A61F2/76; A61B5/107	Übertragungsgerät zur übernahmen von positionen von ober- und unterschenkelschäften in der prothetik
CN202198788U U 20120425	CN20112329492U 20110905	KUNMING GENERAL HOSPITAL CHENGDU MILITARY AREA	A61G7/057	Adjustable limb lifting frame
CN202105151U U 20120111	CN20112186888U 20110605	KUNMING METALLURG COLLEGE	A61H3/06	Intelligent crutch capable of detecting humans and obstacles
TW201206410 A 20120216	TW20100126626 20100810	KWANG YANG MOTOR CO [TW]	A61G5/04	Assembled chassis for electric walk- substituting vehicle
TW201213177 A 20120401	TW20100132721 20100927	KWANG YANG MOTOR CO [TW]	B60W10/08; A61G5/04	Control device and method for automatic downhill deceleration of electrical scooter
KR101129556B B1 20120329	KR20100115094 20101118	KYUNGPOOK NAT UNIV IND ACAD [KR]	A61B5/103; A61B5/11	Legs rehabilitation device and rehabilitation method for legs thereof
KR20120046581 A 20120510	KR20100108315 20101102	KYUNGSUNG UNIVERSITY INDUSTRY COOPERATION FOUNDATION [KR]	A61G5/04; A61G5/10; A61G7/05; A61G7/16	Wheelchair which is possible to transform a bed
EP2454055 A1 20120523	WO2010NL50427 20100705; NL20092003156 20090709	LACQUEY B V [NL]	B25J15/00; A61F2/58; B25J15/10	Artificial hand
US2012109336 A1 20120503	US201113296231 20111115; US20090381146 20090306; US20080034323P 20080306	LAGHI ALDO A [US]	A61F2/80; A61F2/78	Prosthetic liner with proximal seal
WO2012071048 A1 20120531	WO2010US58143 20101128	LAGHI ALDO A [US]	A61F2/78	Prosthetic liner with perspiration elimination mechanism
WO2012005742 A1 20120112	US20100832653 20100708	LAGHI ALDO A [US]; MCLOONE KEVIN [US]	A61F2/78; A61F2/80	Prosthetic locking liner with improved knee flexion

US2012010730 A1 20120112	US201113196339 20110802; US20090509010 20090724; US20040987940 20041112; US20040944436 20040917; US20040575142P 20040528	LECOMTE CHRISTOPHE GUY [IS]; THORHALLSDOTTIR HJORDIS [IS]; RAGNARSDOTTIR HEIDRUN GIGJA [IS]; CLAUSEN ARINBJORN VIGGO [IS]	A61F2/66	Foot prosthesis with resilient multi-axial ankle
KR20120007575 A 20120125	KR20100068186 20100715	LEE DONG WON [KR]	E03D13/00; E03D5/10	Urinal for disabled person
KR20120054717 A 20120531	KR20100115972 20101122	LEE HO IL [KR]	A61F2/50; A61F2/78	Curvy shape implant of the cheek
KR20120025028 A 20120315	KR20100085392 20100901	LEE HO WON [KR]; LEE JONG MIN [KR]	F22B33/18; F22B1/28; F23G5/027	Car parking system for disabled person
KR20120004358 A 20120112	KR20110124686 20111126	LEE JIN YOUNG [KR]	A61H3/02; A61H3/00	A crutch including the elastic bodies
KR20120029777 A 20120327	KR20100091822 20100917	LEE KEUM YEON [KR]	A61G5/06; A61G5/00; A61G5/04	A moving apparatus for a handicapped person and patient
KR20120022474 A 20120312	KR20100086083 20100902	LEE MIN SUK [KR]	A61H3/02	Walking aid
KR20120066387 A 20120622	KR20100127705 20101214	LEE SANG SUK [KR]; SONG JONG BUM [KR]	A61M21/00; A47C20/04; A61G7/002; G04G13/02	Wakening auxiliary apparatus
KR101111285B B1 20120222	KR20110014010 20110217	LEE SEONG IL [KR]; ACCU CARE CO LTD [KR]	G06F3/033	Mouse having body of partition type for the handicapped people
WO2012037910 A1 20120329	DE201010046443 20100924	LENZ DIETMAR [DE]; KADEREIT LUTZ [DE]	A61G5/08; A61G5/10	Mobility facilitating device
WO2012037929 A1 20120329	DE201010046442 20100924	LENZ DIETMAR [DE]; KADEREIT LUTZ [DE]	A61G5/08; A61G5/12	Collapsible wheelchair
NZ582409 A 20120112	CH20070001327 20070824; WO2008CH00126 20080320	LEVO AG WOHLLEN	A61G5/06; A61G5/04; A61G5/14	Vehicle with central wheel drive having drive means to lift the central wheels out of contact with the ground

DE102010033057 A1 20120202	DE201010033057 20100802	LEWTSCHENKO WLADIMIR [DE]; WAELTER KAI [DE]	A61H3/02	Forearm crutch has bracket that is extended from arm rest element in folded state such that handle faces arm rest element in axial direction
KR20120009681 A 20120202	KR20100069962 20100720	LG ELECTRONICS INC [KR]	A61H3/04; A61H3/00	Walking-assistant device
KR20120040914 A 20120430	KR20100102428 20101020	LG ELECTRONICS INC [KR]	A61H3/04; A61H3/00	Walking assistance system possible to control width
KR20120045260 A 20120509	KR20100106684 20101029	LG ELECTRONICS INC [KR]	A61H3/00; A63B23/04	Control device for walking assistance system
KR20120012886 A 20120213	KR20100074959 20100803	LG UPLUS CORP [KR]	H04W4/16	Call forwarding service system and method
TWM424928U U 20120321	TW100208964U 20110519	LI DUN-JI [TW]; XU GUANG-WU [TW]	A61G5/06	Handicap vehicle
TWM427930U U 20120501	TW100220814U 20111104	LI MAO-SHUN [TW]	A61G5/10	Chair back reclining device for wheelchair
CN202103723U U 20120104	CN20112192118U 20110609	LIAN XU	H04M1/02	Handset apparatus for special populations
CN202154804U U 20120307	CN20102675042U 20101217	LIANGYAN PENG	A61G5/00; A61G5/10	Wheelchair with fixing belts
CN202105111U U 20120111	CN20112167575U 20110524	LIFAN IND GROUP CO LTD	A61G5/00; A61G5/10; A63B23/035	Four-wheel chair with safety brake function
AT555765T T 20120515	WO2006FR50288 20060403	LIFESTAND SVIVRE DEBOUTS [FR]	A61G5/14; A61G5/00; A61G5/04; A61G5/10	Multi-position chair for handicapped user
CN202136498U U 20120208	CN20112187813U 20110525	LIGANG TIAN	A61G5/00; A61H1/00	Rehabilitation exercise wheelchair for neurology
CN202113297U U 20120118	CN20112203623U 20110616	LIJIANG CAO	A61H3/06; A45B3/00; A45B3/04	Intelligent walking assist device
KR20120062049 A 20120614	KR20100123130 20101205	LIM JIN MYOUNG [KR]; LIM HYUN MUK [KR]; LEE SEONG GYU [KR]; AHN JUNG SONG [KR]	A61H3/04; A61H3/00	Rolling walker for helping sitting and standing up
DE202010017636U U1 20120313	DE201020017636U 20100331	LIMBS INTERNAT INC [US]	A61F2/64; A61F2/60; A61L27/14	Knieprothese

EP2432430 A1 20120328	WO2010US29448 20100331	LIMBS INTERNAT INC [US]	A61F2/64	Prosthetic knee
CN202161499U U 20120314	CN20112254304U 20110719	LING BAI	A61G5/00; A61G5/10	Medical and living rehabilitation wheelchair for pediatric patients
CN202136258U U 20120208	CN20112209174U 20110620	LIQING CHEN	A47K13/10	One-control two-synchronous automatic lifting toilet seat
US2012043739 A1 20120223	US201113287956 20111102; US20080247781 20081008	LIU JULIAN [CA]	A61H3/04; B62B11/00	Foldable walker apparatus
US2012133106 A1 20120531	US201113284556 20111028; US20100916199 20101029	LIU JULIAN [CA]	A61G5/08; B60C25/01	Foldable walker apparatus
CN202154811U U 20120307	CN20112242458U 20110711	LIUCHENG HENGXING FURNITURE APPLIANCE PRODUCT CO LTD	A61G7/015; A61G7/02	Nursing bed with wheel chair and toilet chair
US2012139197 A1 20120607	US20100928089 20101204	LIVINGSTON TROY W [US]	B62B5/02; B62B5/04	Multi function patient transport
KR101151865B B1 20120531	KR20100117239 20101124	LPKS CO LTD [KR]	H04B1/40; G06F3/048; G10L13/08	Portable communication device for auditory disabled
TWM424141U U 20120311	TW100220797U 20111103	LU MING-RONG [TW]	A61G5/10	Electric scooter structure of wheelchair
NZ572524 A 20120330	AU20060901768 20060404; WO2007AU00451 20070404	LU PAPI & ASSOCIATES PTY LTD	A61G5/00; A47K11/04; A61G5/10	Wheelchair containing a sliding rear wheel axle mounting hub pivotally connected to the frame and a shock absorber between hub and frame
RU2442555 C1 20120220	RU20110100384 20110111	LUK JANOV SERGEJ NIKOLAEVICH [RU]	A61G5/00	Wheelchair
US2012095572 A1 20120419	US20100925233 20101018	LYLE DAVID KEVIN [US]	A61F2/64	Adaptive sports ankle joint prosthesis
EP2408413 A1 20120125	WO2010EP01569 20100312; IT2009MI00435 20090320	M P D S R L [IT]	A61H1/02; A61H3/00	Robot motor rehabilitation device

US2012041568 A1 20120216	US20100657468 20100121; US20090205512P 20090121	MACKENZIE CRAIG [US]	A61F2/78; B29C41/20	Sealing sheath for prosthetic liner and related methods
ES2380465 A1 20120511	ES20090000410 20090213	MADUENO CASTRO LUIS [ES]	A61G5/06; A61G5/10; B60S9/00; B62D57/00	Silla de ruedas para disminuidos con dispositivo electro-mecanico, que permite subir y bajar escaleras y rampas.
US2012131751 A1 20120531	US201113135752 20110715; WO2010US02594 20100921; US20090277049P 20090921	MAHLER SHEILA J [US]	A61G7/075; A47C16/00	Orthopedic support pillow
US2012078382 A1 20120329	US201113309335 20111201; US20090356755 20090121; US20080006507P 20080117	MALAWER MARTIN M [US]	A61F2/78	Amputation bone cap
TWM429471U U 20120521	TW101201540U 20120120	MAO SHAN MACHINERY IND CO LTD [TW]	A61G5/06	Improved structure for stairway elevation chair
BRPI1002574 A2 20120327	BR2010PI02574 20100728	MARCHINI PAULO DAVID CAMARGO [BR]; DOS SANTOS ABEL FERREIRA [BR]	A61G5/10	Mecanismo de elevação do encosto/assento aplicado em cadeira de rodas e outros, para sistema de mobilização do usuário
BRMU9002576U U2 20120619	BR2010MU9002576U 20100122	MARCOPOLO S A [BR]	G08B13/26; G01B7/00; G01P13/00; G01R27/26; H01H36/00	Dispositivo capacitivo de acionamento de sinalização de socorro para veiculos de transporte coletivo
MX2010013025 A 20120528	MX20100013025 20101129	MARES CARRENO JESUS [MX]	A61F2/64	Polycentric knee prosthesis based on a planar mechanism of 6 links.

CA2748652 A1 20120505	US20100940654 20101105	MARKETING DISPLAYS INC [US]	B61D15/00; A61G3/02; A61G3/08; B61D33/00; B61H13/02	Railway service vehicle having wheelchair restraint
US2012136458 A1 20120531	US201213351291 20120117; US20100979434 20101228; US20080185907 20080805; US20070953390 20071210; US20070801790 20070511; US20060343066 20060130; US20030410491 20030409; US20020371974P 20020412	MARTIN JAMES J [US]	A61F2/68	Electronically controlled prosthetic system
US8166988 B1 20120501	US201113070603 20110324	MARTIN JODY A [US]	A61H3/04	Medically equippable walker device
WO2012049877 A1 20120419	JP20100229674 20101012	MARUFUJI INC [JP]; KUMA SHIGEHITO [JP]	A61G5/02; A47C7/42	Wheelchair seat member
AT540645T T 20120115	US20000192966P 20000329	MASSACHUSETTS INST TECHNOLOGY [US]	A61F2/38; A61F2/68; A61F2/64; F16F9/53	Controllable prosthetic joint system
JP2012061071 A 20120329	JP20100206289 20100915	MATSUMOTO GISHI SEISAKUSHO KK	A61G5/02	Wheelchair
JP2012070958 A 20120412	JP20100218213 20100929	MATSUNAGA MFG	A61G5/02	Non-magnetic/non-magnetization wheel
JP2012070959 A 20120412	JP20100218214 20100929	MATSUNAGA MFG	A61G5/02; A61G5/00	Non-magnetic/non-magnetization wheelchair



TW201200985 A 20120101	JP20090298999 20091228; JP20100032547 20100217	MAX CO LTD [JP]	G05G1/04; A61G5/10; B62L3/02	Operating mechanism and assistive equipment
AT544437T T 20120215	DE20032019248U 20031210	MBB PALFINGER GMBH [DE]	A61G3/06; B60P1/43; B60R3/02; B61D23/00	Vehicle with a ramp for facilitated on and exit mobility of disabled persons
DE202012001258U U1 20120322	DE201220001258U 20120209	MEDI GMBH & CO KG [DE]	A61F2/78; A61F2/60	Zapfen für eine verriegelungsvorrichtung für eine prothese, sowie verriegelungsvorrichtung umfassend einen solchen zapfen
EP2420212 A1 20120222	DE201010034893 20100819	MEDI GMBH & CO KG [DE]	A61F2/66	Foot prosthesis
AT548994T T 20120315	DE200910051668 20091102	MEDI GMBH & CO KG [DE]; PRO LIMB INTERNAT CORP [TW]	A61F2/64; A61F2/68	Knee joint for a prosthetic
RU2010144024 A 20120520	DE200820004714U 20080405; DE200810021054 20080426	MEDI GMBKH & KO KG [DE]	A61F2/80	Receiving socket of prostythesis for extremity stump, equipped with inbuilt fixing device for sealing element
US2012086184 A1 20120412	US201113253622 20111005; US20100390315P 20101006	MEDLINE IND INC [US]	A61G5/12; A61G5/00; B23P17/04	Sliding arm mechanism for wheelchairs
WO2012024275 A2 20120223	US20100860318 20100820	MEDLINE IND INC [US]; WALTHER LINDA M [US]; ABERNATHEY ETHAN S [US]; ADHIKARI ISHWOR P [US]; KUTSCH JOHN H [US]; LACKOWSKI VINCENT R [US]	A61H3/04; A61H3/00; B62K17/00; B62L1/02	Knee walker
AU2012100607 A4 20120628	AU20120100607 20120512	MENG JIAOJIAO	E03C1/04; F16K49/00	A type of faucet extension device
WO2012083030 A2 20120621	US20100423212P 20101215	MENTIS SCIENCES INC [US]	A61F2/60; A61F2/70; A61F2/78; A61F2/80	Braided prosthetic sockets with attachment plates and methods of manufacture

WO2012040703 A2 20120329	US20100386190P 20100924	MESA IMAGING AG [CH]; HOUSTON J GRANT [US]; GASSERT ROGER; KIM YEONGMI; OGGIER THIERRY [CH]; RIESCH MARKUS; DESCHLER MATHIAS; PROTT CORNELIA [CH]; SCHNELLER STEFAN; HAYWARD VINCENT	A61H3/06	White cane with integrated electronic travel aid using 3d tof sensor
TW201206411 A 20120216	TW20100127113 20100813	METAL IND RES & DEV CT [TW]	A61G5/04	Power driving device for manual wheelchair
WO2012015466 A2 20120202	US20100804860 20100730	MIHIN WILLIAM [US]	A61F5/01	Orthopedic device
JP2012066007 A 20120405	JP20100215464 20100927	MITSUBA CORP	A61G5/04; B60B33/00; B60K7/00	Differential caster and electric wheelchair
JP2012074139 A 20120412	JP20100215895 20100927	MITSUBA CORP	H01R39/08; A61G5/02; A61G5/04; B60K7/00; B62D9/00	Slip-ring, differential caster and electrically- driven wheelchair
TWM430975U U 20120611	JP20110069745 20110328	MITSUMORI UEDA [JP]	A61H3/00; E04F11/18	Self-standing type hand hold
DE202012100105U U1 20120227	RU20110103363U 20110131	MJAKOTA A V [KZ]	A61H3/00; A61F5/00; A61F5/02	Device for walking and exercise for patients with psycho logical disorders and diseases of the musculoskeletal and supporting apparatus
WO2012057638 A1 20120503	PL20100392799 20101029	MLYNARCZYK TADEUSZ [PL]	A61G5/06	Stair-climbing wheelchair
DE202011108171U U1 20120615	DE201120108171U 20111122	MONADA UG HAFTUNGSBESCHRAENK T [DE]	A61H3/04; G01S15/93; G08G1/16	Warning device for non-motorized walking aids to avoid collisions
US2012104818 A1 20120503	US201113097893 20110429; US20100330066P 20100430	MORRIS DENNIS KIMBLE [US]	A61G7/10	Portable, powered chair lift
KR20120028768 A 20120323	KR20100090793 20100915	MOTORWEL CO LTD [KR]	B62M1/14; A61G5/02; B62K3/16; B62K5/04	Bike for wheelchair

WO2012042458 A1 20120405	IT2010PI00104 20100927	MP S R L [IT]; PAOLACCI MARCO [IT]	A61G3/06; G01S5/00	Method for the transfer of people on wheelchair on/from public transport means
KR20120030736 A 20120329	KR20100092439 20100920	MUN TAE HO [KR]	A61F5/04; A61H1/02	Corrective device for hemiplegia patient
JP2012071667 A 20120412	JP20100217422 20100928	MUROTO TEKKOSHO KK	B60S3/06; A61G5/00	Tire washing device of wheelchair
WO2012002889 A1 20120105	SE20100050707 20100628	MUUKKI SVERDRUP CAMILLA THERESIA [NO]	A47G21/02; A46B5/02; A47G21/04; B25G1/10; B43L15/00	Handheld device with a vertically holding body for a disabled person
CA2738581 A1 20120315	US20100745091 20100915	MY MUSIC MACHINES INC [US]	G06F3/00; A61F4/00; A63F13/02; G01D5/26; G10H3/16	Adaptive midi wind controller device for controlling musical instrument simulation and other applications
WO2012046395 A1 20120412	JP20100225024 20101004	NABTESCO CORP [JP]; TAKEZAWA YOSHINORI [JP]	A61G5/04; F16D49/00; F16D51/12; F16D55/28; F16D65/06; F16D65/08	Electric wheelchair and electric unit
WO2012011111 A1 20120126	US20100366190P 20100721	NADAV MORAN [IL]	A61G5/14	Chair with mechanism to assist standing up and sitting down for elderly or disabled persons
DE102009049465 A1 20120510	DE200910049465 20091015	NADER MOLLA-AHMADI [DE]	A61F2/76	Vibration collar for optimized adaptation and facilitation of fitting of prostheses, has collar with maximum of four vibration motors, microcontroller and start-stop button mounted on collar
JP2012065967 A 20120405	JP20100215066 20100927	NAKABAYASHI KK	A61H3/04	Walking device
JP2012115437 A 20120621	JP20100267380 20101130	NAKABAYASHI KK	A61H3/04; B60B33/00	Walking aid and caster unit attached thereto
JP2012120820 A 20120628	JP20100293860 20101208	NAKAI MOKKO KK	A61G5/00; A47C7/02; A47C9/00	Stand-up support chair
CN202136497U U 20120208	CN20112102789U 20110411	NANJING VITAFOM TECHNOLOGICAL LTD	A61G5/00; A61G5/10	Small electric scooter

CN102352707 A 20120215	CN20111350199 20111108	NANTONG DANDELION IND DESIGN SERVICE CO LTD	E05B1/00; E05B3/00	Universal y-shaped door handle
CN202197960U U 20120425	CN20112270905U 20110728	NANTONG HOPEWAY ENTPR INC	A45B3/04; A45B9/02	Multifunctional walking stick
CN202105149U U 20120111	CN20112182699U 20110601	NANYANG INST OF TECHNOLOGY	A61H3/02; A61H3/04; A61M5/14	Multifunctional walking stick
JP2012110619 A 20120614	JP20100264332 20101126	NAT INST OF ADVANCED IND SCIEN; JAPAN AIRLINES CO; MIURA YOJI	A61G5/02	Footrest mounting structure of wheelchair
JP2012110620 A 20120614	JP20100264333 20101126	NAT INST OF ADVANCED IND SCIEN; JAPAN AIRLINES CO; MIURA YOJI	A61G5/02	Caster structure for wheelchair, and wheelchair using the same
WO2012008664 A1 20120119	KR20100068193 20100715	NAT REHABILITATION CT [KR]; PARK DAE SUNG [KR]; KIM MIN [KR]; JUNG DA WOON [KR]; LEE BUM SUK [KR]	A63B22/20; A61H39/00; A63B23/04	Rowing machine for paraplegic patient
CN202122115U U 20120125	CN20112241913U 20110711	NAT RES CT FOR REHABILITATION TECHNICAL AIDS	A41D1/06; A41D13/12; A41D27/00	Combined type warm pants for disabled persons
KR20120004591 A 20120113	KR20100065159 20100707	NAT UNIV CHUNGBUK IND ACAD [KR]	A61G5/10; G05D1/08	Self-balancing wheelchair
WO2012002078 A1 20120105	JP20100147256 20100629	NAT UNIV CORP NAGOYA INST TECH [JP]; SANO AKIHITO [JP]; IKEMATA YOSHITO [JP]; FUJIMOTO HIDEO [JP]	A61H3/00	Walking support machine
KR20120013035 A 20120214	KR20100075177 20100804	NAT UNIV HANBAT INDUSTRY [KR]	A61G5/06; A61G5/10; B62D55/075; G05D1/08	Staircase passable wheelchair
CN102307492 A 20120104	WO2009US45502 20090528; US20080335482 20081215	NAVARRO RANDAL A	A45B3/02; A61H3/02; A61H3/06	Adjustable lighted walking aid

KR101158845B B1 20120627	KR20110121260 20111118	NAWOO DONGIN ARCHITECTS & ENGINEERS CO LTD [KR]	E04F11/02; E04F11/04	Staircase for obstacle person and children
TWM425658U U 20120401	TW100213863U 20110728	NEED TECHNOLOGY & COMPANY U [TW]	A61G7/00	Bed-leaving alarm
TWM425659U U 20120401	TW100221770U 20111118	NEED TECHNOLOGY & COMPANY U [TW]	A61G7/05; G08B3/00	An off-bed alarming device
CN202200887U U 20120425	JP20110003899U 20110707	NIHSIN AUTOMOBILE INDUSTRY INC	B60P1/54; A61G3/06	Wheel chair lifting device
CA2747291 A1 20120212	JP20100180934 20100812; JP20100282051 20101217	NIMURA YOSIHARU [JP]	A61G5/10	Wheelchair
JP2012095840 A 20120524	JP20100246181 20101102	NIPPON ROBOTICS KK	A61H3/04	Walking aid vehicle
JP2012085992 A 20120510	JP20100251257 20101021	NISHIMURA SHOZO	A61F2/54	Prosthetic finger
JP2012095973 A 20120524	JP20100248749 20101105	NISSIN MEDICAL IND CO LTD	A61G5/02	Wheelchair
JP2012019912 A 20120202	JP20100159395 20100714	NOZAKI TOKUSHUKAI HOSPITAL; NITTO KOHKI CO	A61G7/05; A61H7/00	Vest device for bedridden patient
US2012105203 A1 20120503	US201113096924 20110428; US20100330170P 20100430	NUVEL INC [US]	G08B5/22	System and method for providing personal alerts
EP2410953 A1 20120201	WO2010US00925 20100326; US20090163952P 20090327	OESSUR HF [IS]	A61F2/78	Prosthetic liner with continuous distal end area
EP2436344 A1 20120404	EP20050756405 20050523; US20040574948P 20040528	OESSUR HF [IS]	A61F5/00; A61F2/78; A61F2/80; A61F5/01; A61F13/00	Prosthetic or orthotic sleeve having external surface peripheral profiles

EP2434992 A1 20120404	WO2010US33788 20100505; US20090175713P 20090505	OESSUR HF [IS]; OSSUR AMERICAS INC [US]	A61F2/62	Control systems and methods for prosthetic or orthotic devices
WO2012006462 A1 20120112	US20100362024P 20100707	OESSUR HF [IS]; OSSUR AMERICAS INC [US]	A61F2/64	Ground contact sensing systems and methods for lower-limb orthotic and prosthetic devices
WO2012047721 A1 20120412	US20100387888P 20100929	OESSUR HF [IS]; OSSUR AMERICAS INC [US]; LANGLOIS DAVID [CA]; RITTENHOUSE MATHESON [CA]; ROY YVES [CA]	A61F2/68	Prosthetic and orthotic devices and methods and systems for controlling the same
JP2012065745 A 20120405	JP20100211673 20100922	OFUSA TOSHIO	A61G5/00; A61G1/00; A61G3/00; A61G5/02; B62B7/00	Chair with wheels
KR20120050920 A 20120521	KR20110132562 20111212	OH SANG DON [KR]	G09B1/16; G09B1/40	Letter blocks
US2012004737 A1 20120105	US201113231690 20110913; US20070688402 20070320; US20060423632 20060612; US20050149858 20050610	OHIO WILLOW WOOD CO [US]	A61F2/80	Prosthetic device utilizing electric vacuum pump
JP2012120596 A 20120628	JP20100272003 20101206	OKUBO YASUYOSHI	A61G5/02	Wheelchair for rehabilitation care
JP2012081941 A 20120426	JP20100242769 20101012	OKUDA EIJI	B60B33/00; A61G5/02	Auxiliary wheel having such structure that passage of wheelchair or the like over stepped part is supported

US2012101599 A1 20120426	US201113338839 20111228; US20070896960 20070907; US20060845503P 20060919	OLAFSSON SIGURDUR [IS]; INGIMARSSON GUDNI [IS]; JONSSON HELGI [IS]	A61F2/62; F16C11/04	Momentum free bearing for use in prosthetic and orthotic devices
AU2012201173 A1 20120322	AU20120201173 20120228	ORTHO CRUTCH LTD	A61H3/02	A handle and a walking aid incorporating the same
US2012078380 A1 20120329	US201113286015 20111031; US20050219317 20050901	OSSUR HF [IS]	A61F2/48; A61F2/66	Actuator assembly for prosthetic or orthotic joint
CA2718303 A1 20120412	CA20102718303 20101012	OSTERLOO MATTHEW WILLIAM [CA]	G06F3/01; G06F1/16; G06F3/041; A61F2/50	Inter-oral touchpad
PL1962735T T3 20120131	DE200510062231 20051222	Otto Bock Healthcare GMBH [DE]	A61F2/66	Artificial foot
EP2467103 A1 20120627	DE200910037898 20090819; WO2010EP04419 20100720	OTTO BOCK HEALTHCARE PROD GMBH [AT]	A61F2/58; B25J15/00	Gripping device
US2012101596 A1 20120426	DE200910030217 20090623; WO2010EP03508 20100611	OTTO BOCK HEALTHCARE PROD GMBH [AT]	A61F2/72	Method for setting up a control and technical orthopedic device
KR20120011202 A 20120207	KR20100072909 20100728	PAMPAS CO LTD [KR]	A61G7/10; A61G5/14; A61G7/14	Stand device for wheelchair user
JP2012061200 A 20120329	JP20100208906 20100917	PANASONIC CORP	A61G7/00; A61G5/00; A61G5/02	Wheelchair and bed
JP2012070802 A 20120412	JP20100216221 20100927	PANASONIC CORP	A63B23/00; A61B5/11; G01G19/44	Center of gravity shifting training system
JP2012090409 A 20120510	JP20100234309 20101019	PANASONIC CORP	B60L15/00; A61G5/04; B62B3/00; G05D1/02	Omni-directional movement type electric vehicle and control method thereof
JP2012090849 A 20120517	JP20100241811 20101028	PANASONIC CORP	A61H3/00	Device for supporting action of lower limb

JP2012110408 A 20120614	JP20100259719 20101122	PANASONIC CORP	A61G5/04	Steering control device, steering control method, and computer program for steering standing riding type movable body
JP2012040200 A 20120301	JP20100184349 20100819	PARAMOUNT BED KK; SHIBAURA INST TECHNOLOGY	A47C7/02; A47C7/40; A47C16/00; A61G5/00; A61G7/05	Standing assist device
KR20120009040 A 20120201	KR20100070714 20100722	PARK BEOM YEONG [KR]	A61H3/02; A61H3/00	Possible rotation balmokdae
KR20120032637 A 20120406	KR20100094069 20100929	PARK JOONG HYUN [KR]	A61H3/02; F21V33/00	A crutch
KR20120063462 A 20120615	KR20120030253 20120323	PARK TEAK JU [KR]	A61G3/00; A61G3/08	Lift car indoors bumper
KR20120042333 A 20120503	KR20100103989 20101025	PARK YONG HAN [KR]; PARK YONG JAE [KR]	A61G5/10; A61G5/04; A61G7/02; A61G7/14	The wheel chair where the use is convenient
KR20120047016 A 20120511	KR20100108639 20101103	PARK YOUN GOO [KR]	G06Q50/00	Vocational rehabilitation system using a mini cab
RO127263 A0 20120430	RO20110001124 20111108	PASZTAI ZOLTAN CAROL [RO]	A61H1/00	Device for functional motor behaviour and techniques of utilization
MX2010010734 A 20120402	MX20100010734 20100930	PERCADI CT DE PERSONAS FISICAS E INCLUSION DE PERSONAS CON DISCAPACIDADES HACIA LA JUSTICIA Y LA LEG [MX]	A47J45/00	Device for adapting utensils for people with motive disabilities.
US2012165706 A1 20120628	US201213404358 20120224; FR20000014173 20001106; US20030415962 20031022; WO2001FR03423 20011106	PERCEPTION RAISONNEMENT ACTION EN MEDECINE [FR]	A61B5/103; A61F2/76; A61B17/15; A61F2/60; G06T1/00; G06T15/70; G06T17/40	System for determining the position of a knee prosthesis



WO2012044941 A1 20120405	US20100895355 20100930	PERMOBIL AB [SE]; ENGMAN BO [SE]; LIND URBAN [SE]; BACKSTROM NIKLAS [SE]; JAHKEL JONAS [SE]; MIRZAIE MEHDI [US]	A61G5/12	Wheelchair legrest assembly
WO2012044950 A1 20120405	US20100896078 20101001	PERMOBIL AB [SE]; ENGMAN BO [SE]; LIND URBAN [SE]; BACKSTROM NIKLAS [SE]; JAHKEL JONAS [SE]; MIRZAIE MEHDI [US]	A61G5/10	Wheelchair backrest assembly
WO2012008907 A1 20120119	US20100837234 20100715; SE20100050804 20100715	PERMOBIL AB [SE]; MIRZAIE MEHDI [US]	A61G5/04	Electric mid-wheel drive wheelchair
EP2435006 A2 20120404	WO2010NL50316 20100527; NL20092002944 20090529	PERTEON SEATS B V [NL]	A61G5/10; A61G7/057	Method and device for manufacturing an impression of a person-specific contact surface for a sitting orthosis
EP2435007 A2 20120404	WO2010NL50317 20100527; NL20092002945 20090529	PERTEON SEATS B V [NL]	A61G5/10	Method for manufacturing a sitting orthosis from a representation of the contact surface of the sitting orthosis, and a sitting orthosis manufactured in such a manner
US2012046821 A1 20120223	SE20090050302 20090505; WO2010SE50495 20100505	PETTERSSON OLA [SE]; WAESTLUND ERIK [SE]; SPONSELLER KAY [SE]	A61G5/10; A61G5/04; G01C21/00; G05D1/00	Steering and control system for a vehicle for the disabled
GB2486179 A 20120613	GB20100020459 20101203	PG DRIVES TECHNOLOGY LTD [GB]	B60L15/10; A61G5/04; B60L15/20	Motorised vehicle control using acceleration measurements
BRPI1003284 A2 20120207	BR2010PI03284 20100301	PHYSICUS IND DE APARELHOS ESPORTIVOS LTDA [BR]	A63B23/12; A63B21/068	Equipamento de musculação denominado máquina de supino vertical para trabalho dos músculos posteriores do braço e peitorais

US2012124718 A1 20120524	US201113300289 20111118; US20070805084 20070522; US20060515973 20060905; US20030611033 20030701; WO2002US25256 20020807; US20010924425 20010807	PICOTTE BROOKE [US]	A42B3/12	Head protector for infants, small children, senior citizens, adults or physically disabled individuals
EP2400937 A2 20120104	WO2010TR00032 20100211; TR20090001453 20090226	PIRLI ASLAN ALI [TR]	A61F5/451; A61G5/10; A61G7/02	Support unit for physically handicapped patients
TWM419563U U 20120101	TW100213391U 20110721	PLAIN SAILING PAIM COCONUT IND CO LTD [TW]	A61G5/10	Structural improvements of wheelchair seat belt
DE202012000642U U1 20120227	DE201220000642U 20120123	POLICSKE STROJIRNY A S [CZ]	A61G3/06; B60R3/02; B61D23/02; B61D47/00	Einstieg-hebebühne für verkehrsmittel mit seitlicher auffahrtfläche für einen rollstuhl
PL392617 A1 20120423	PL20100392617 20101011	POLITECHNIKA KOSZALINSKA [PL]	B43K23/012	Finger tool, especially for disabled people
PL391703 A1 20120102	PL20100391703 20100701	POLITECHNIKA POZNANSKA [PL]	A61H3/04; A61H3/00	Vehicle for the disabled and visually impaired intended for facilitating orientation and signalling danger
PL391958 A1 20120130	PL20100391958 20100726	POLITECHNIKA POZNANSKA [PL]; BIALKOWSKI LESZEK BALL PRZEDSIEBIORSTWO PROD USLUGOWO HANDLOWE WARSZTAT GALWANIZ [PL]	A61G7/10; B66B9/08	Platform for moving people with locomotive disabilities

CA2757710 A1 20120515	US20100413810P 20101115	PRIDE MOBILITY PRODUCTS CORP [US]	A61G5/10; A61G5/04; G05B19/02; G05D1/02	Tiered operation option scanning for wheelchairs
GB2484397 A 20120411	US20100389958P 20101005	PRIDE MOBILITY PRODUCTS CORP [US]	A61G5/04	Auxiliary motor assembly detachably mounted to a wheelchair
WO2012047844 A1 20120412	US20100389946P 20101005	PRIDE MOBILITY PRODUCTS CORP [US]; MULHERN JAMES P [US]; GRYMKO CHRISTOPHER [US]	A61G5/00	Anti-tip and suspension systems for wheelchairs
WO2012079070 A2 20120614	US20100421658P 20101210	PROCESS4 INC [US]; TAYLOR CURTIS [US]; MISENER AARON	A47K11/04	Portable disposable toilet
CZ23471U U1 20120314	CZ20120025532U 20120126	PROMA REHA [CZ]	A61G7/012	Device for facilitating getting up of patients from positionable bed
CN202096372U U 20120104	CN20112163245U 20110520	QIGANG HUANG	A61G5/00; A61G5/10	Wheelchair
CN202113247U U 20120118	CN20112190812U 20110608	QIGANG HUANG	A61G5/04; A61G5/10	Electric wheelchair
CN202151409U U 20120229	CN20112217117U 20110624	QIGANG HUANG	A61G5/00; A61G5/10	Nursing wheel chair
CN202154836U U 20120307	CN20112184946U 20110602	QINGSHAN GENG	A61H3/00; A63B22/02; A63B24/00	Airbag type weight-reducing walking rehabilitation training device
JP2012103146 A 20120531	JP20100252510 20101111	QUEST ENGINEERING KK	G01C21/00; G08G1/005; G09B29/00; G09B29/10	Navigation device for wheelchair user
CN102309381 A 20120111	CN20111239969 20110819	QUNMING ZHONG	A61G5/06; A61G5/10	Self-balancing electric wheelchair capable of going up and down stairs and walking on flat ground
CN202198769U U 20120425	CN20112304491U 20110819	QUNMING ZHONG	A61G5/06	Self-balancing electric wheel chair capable of walking up and down stairs and travelling on flat ground
EP2401995 A1 20120104	US20100803718 20100702	RAZON ELI [US]	A61H3/04	Sit down and stand up walker with seat assembly

SE1051036 A1 20120406	SE20100051036 20101005	REAC AB [SE]	A61G5/10; A61G7/012	Device for adjusting a wheelchair seat height and tilt a wheelchair
SE1051038 A1 20120406	SE20100051038 20101005	REAC AB [SE]	A61G5/10	A device for a wheel chair and a wheel chair
SE1051039 A1 20120406	SE20100051039 20101005	REAC AB [SE]	A61G5/10; A61G5/14	A device for a wheel chair and a wheel chair
WO2012047165 A1 20120412	SE20100051041 20101005	REAC AB [SE]; BALLE CHRISTENSEN HANS [DK]	A61G5/10	A device for a wheel chair and a wheel chair
DE202012003883U U1 20120525	DE201220003883U 20120417	REHA TECHNIK MOELLER GMBH [DE]	A61G5/10; A61G5/12	A seat for wheelchairs with stretched fabric seat
WO2012011127 A1 20120126	IN2010CH02073 20100720	REVANKAR KRISHNA PRASAD PANDURANGA [IN]	A61G7/02; A47K11/02; B65B9/10	A resting contraption for elderly and sick with waste disposal by encapsulation of the waste in plastic bags.
AU2009348961 A1 20120223	WO2009NZ00130 20090701	REX BIONICS LTD	A61H3/00; A61F2/72	Control system for a mobility aid
US2012151678 A1 20120621	US20100973069 20101220	RICHARDS SANDY M [US]	A61G7/018; A61G7/002; A61G7/015	Ground sensor control of foot section retraction
ES2373452T T3 20120203	US20060347360 20060203	RICON EUROP GMBH [DE]; RICON CORP [US]	A61G3/06; B60P1/44	Elevador de silla de ruedas con dos brazos abatibles de manera deslizable.
CN102316828 A 20120111	WO2008IB01074 20080430	RIZZOLI ORTOPEDIA S P A	A61F2/68	Automatic prosthesis for above-knee amputees
DK2065018T T3 20120130	IT2007MI02148 20071109	ROADRUNNERFOOT ENGINEERING S R L [IT]	A61F2/66; A61F2/76	Leg prosthesis
DK2090268T T3 20120220	IT2008MI00226 20080213	ROADRUNNERFOOT ENGINEERING S R L [IT]	A61F2/66; A61F2/76	Prosthetic walking foot
US8146615 B1 20120403	US20100717041 20100303	RODRIGUEZ YENIEL [US]	A61H3/02; A45B3/00; A45B5/00	Crutch device with leg support

US2012091300 A1 20120419	US20080086994P 20080807; US20080097574P 20080917; WO2009US52677 20090804; US200913055834 20090804	ROHO INC [US]	A61G5/10; F16M13/02	Wheelchair back mounting assembly
CN202161531U U 20120314	CN20112285724U 20110808	RONGHONG YANG	A61H3/04; A61G5/00; A61G5/12	Walking-assistance vehicle with footboard
CN202173565U U 20120328	CN20112285725U 20110808	RONGHONG YANG	A61H3/04; A61G5/00; A61G5/10	Rollator with seat cushion hand rail
CN102327675 A 20120125	CN20111311675 20111014	RONGSHAN LIU	A62B1/06	High-rise building escape device
CN202147552U U 20120222	CN20112220354U 20110627	RONGYAO YANG	B60C7/00; A61G5/10	Improved tire for rear wheel of wheel chair
ES1076804U U 20120426	ES20120000305U 20120321	ROSELLO LOZANO ROBERTO [ES]	A61G3/00	Dispositivo para la transformación de un vehículo de serie en un vehículo para transporte de personas discapacitadas
DE102010054328 A1 20120614	DE201010054328 20101213	ROSENBERGER RUDOLF [DE]	B62D57/024; A61G5/06; B62D55/075; B62D57/032	Motor powered climber for diagonal transportation of heavy loads over staircase, has seven climbing legs secured on endless chain for climbing staircase, where climbing legs are evenly spaced from each other along chain
US2012056404 A1 20120308	US201113183219 20110714; US20090629448 20091202	ROUSSEAU BRADLEY J [US]	A61G5/10	Manual wheelchair lift and methods of using same

EP2448528 A2 20120509	WO2010GB01247 20100628; GB20090011510 20090702; GB20090011511 20090702; GB20100001443 20100128; GB20100007272 20100430	RSLSTEEPER GROUP LTD [GB]	A61F2/68; A61F2/58; A61F2/70	Prosthetic apparatus
US2012096645 A1 20120426	US201113341481 20111230; US20090607975 20091028	RUOEY LUNG ENTPR CORP [TW]	A61G7/018; A47C20/04; A61G7/002; A61G7/015	Leg lift mechanism for electric bed or chair
NL1038293C C 20120411	NL20101038293 20101006	S & B B V [NL]; BRANDS KASPER [NL]; VEN MARA [NL]	A61G5/10; B62B5/04	Rolstoel en remmechanisme daarvoor.
CN102309382 A 20120111	JP20100156438 20100709	SADAO MASAKI	A61G5/08; A61G5/14	Folding wheel chair and stand-assist seat
WO2012066137 A1 20120524	FR20100004492 20101118	SAFE STEP AND WALK MOVEMENT [FR]; IZARD PHILIPPE [FR]; ESCOURROU HERVE [FR]	A61H3/04; A61H3/00	Supporting walking aid
JP2012066010 A 20120405	JP20100215511 20100927	SAKAI MEDICAL CO LTD	A61H33/00; A61G5/00; A61G5/02	Wheelchair for bathing
JP2012066012 A 20120405	JP20100215513 20100927	SAKAI MEDICAL CO LTD	A61H33/00; A61G5/00	Bathing system
JP2012066013 A 20120405	JP20100215514 20100927	SAKAI MEDICAL CO LTD	A61H33/00; A61G5/00; A61G5/02	Wheelchair for bathing
KR20120002374 A 20120105	KR20100063212 20100630	SAM JOO INTERNAT CO LTD [KR]	A61H3/04; A61H3/00	A rollator
JP2012065808 A 20120405	JP20100212616 20100922	SANWA KK	A61G1/02; A61G5/04	Stair lift
JP2012061178 A 20120329	JP20100208566 20100916	SASAKI KOGYOSHO KK	A61G5/00; A61M5/14	Wheelchair towing device

CA2719771 A1 20120426	CA20102719771 20101026	SAWATSKY GERRY J [CA]	A61F5/14; A43B7/14; A61H3/00	Ankle foot orthosis
DE102010051115 A1 20120516	DE201010051115 20101111	SCHELKLE JOSEF [DE]	A61H3/02; A45B9/00	Foot for e.g. Walking aid, has three leg elements supported at lower side of piston element, releasable attaching unit provided for fastening foot at bar of walking aid and actuator device connected with piston element
US2012112431 A1 20120510	US201213350015 20120113; US20090417159 20090402	SCHNEIDER DAVID KURT [US]	A61G5/10; B60Q1/46	Wheelchair safety, power and shade device and method
DE102010047373 A1 20120405	DE201010047373 20101005	SCHNIZER WOLFGANG [DE]	A61H3/00	Pedestrian walking aid has carrying belts that are connected to two arms behind spine of walker, and handgrip in which hand of walker is held in such a way that the hand is freely movable
DE202011003227U U1 20120227	DE201120003227U 20110222	SCHULMANN BORIS [DE]; SCHULMANN MICHAEL [DE]	A61H3/04	Compact light weight folding walker as a walking aid device
US2012109337 A1 20120503	DE200810056520 20081108; WO2009DE01537 20091104	SCHULZ STEFAN [DE]	A61F2/54	Finger element
AT551030T T 20120415	US20070762306 20070613; WO2008US53178 20080206	SCUSSEL SBJ SYSTEMS INC [US]; SCUSSEL RICK C [US]	A61F2/80	Vacuum assisted prosthetic sleeve and socket
FR2965715 A1 20120413	FR20100058283 20101012	SEGULA MATRA TECHNOLOGIES [FR]	A61G5/04; A61G5/14	Wheelchair
FR2965716 A1 20120413	FR20100058285 20101012	SEGULA MATRA TECHNOLOGIES [FR]	A61G5/04; A61G5/14	Wheel chair for enabling e.g. Muscular dystrophy affected person, e.g. To move to ground depending on occupation, has actuator adjusting angular position of armrests around axis of articulation with respect to backrest
FR2965717 A1 20120413	FR20100058286 20101012	SEGULA MATRA TECHNOLOGIES [FR]	A61G5/06; A61G5/04	Wheelchair

FR2965718 A1 20120413	FR20100058298 20101012	SEGULA MATRA TECHNOLOGIES [FR]	A61G5/12; A61G5/14	Wheelchair provided with foot-rest
JP2012019831 A 20120202	JP20100158027 20100712	SEHATA SEIJI	A61H3/04	Walking aid
EP2468465 A1 20120627	JP20100285076 20101221	SEIKO EPSON CORP [JP]	B25J15/00; A61F2/58	Robot and robot hand
KR20120032384 A 20120405	KR20100095869 20100928	SEO CHANG WOO [KR]	A47G21/10	Convenience chopstick
KR20120006627 A 20120119	KR20100067195 20100713	SEO YUN GANG [KR]	A61G5/10; A61G5/12; A61G5/14; A61G7/14	Seat tilt adjustable wheel chair
BRMU8902225U U2 20120424	BR2009MU8902225U 20091006	SERVICO NAC DE APRENDIZAGEM IND SENAI [BR]	A61G5/00	Disposição construtiva em cadeira de rodas
CN202136251U U 20120208	CN20112174933U 20110528	SHANDONG VOCATIONAL COL SCI	A47K11/04; A47K13/10	Booster toilet chair for old people
CN102319166 A 20120118	CN20111180339 20110629	SHANGHAI BUSINESS AND INFORMATION COLLEGE	A61H3/00	Walking aid for fracture personnel
CN202182152U U 20120404	CN20112289951U 20110810	SHANGHAI HUBANG MEDICAL APPLIANCES CO LTD	F16H1/20; A61G5/10	Conical gear decelerating mechanism used for wheelchair
CN202198771U U 20120425	CN20112289929U 20110810	SHANGHAI HUBANG MEDICAL APPLIANCES CO LTD	A61G5/10; A61G5/04	Mounting structure of motor of electric wheel chair
CN202173566U U 20120328	CN20112226812U 20110630	SHANGHAI JIADING NANXIANG PRIMARY	A61H3/06; A61H3/02	Sonar walking stick
CN202155876U U 20120307	CN20112210122U 20110621	SHANGHAI SHENGE HIGH SCHOOL	B25J9/00	Conveniently-clamping device
CN202179670U U 20120404	CN20112214729U 20110623	SHANGHAI SONGJIANG YOUTH & CHILDREN CT; WENWEI SONG	A61H3/06; A61H3/02	Intelligent walking stick
CN202179640U U 20120404	CN20112214723U 20110623	SHANGHAI SONGJIANG YOUTH & CHILDREN CT; YUTING YANG	A61G5/00; A61G5/10	Multifunctional wheelchair



CN202154314U U 20120307	CN20112254135U 20110719	SHENGGGEN XU	A47C1/02; A47C7/00; A47C7/50; A47C7/62; A47C7/68; A47K11/04; A61G5/00; A61G5/10	Four-wheel multi-purpose reclining chair
CN202198790U U 20120425	CN20112315225U 20110826	SHENGJIE WANG	A61G7/075	Lower limb supporting device for orthopedics
CN102342879 A 20120208	CN20101248343 20100803	SHIYU XIE	A61H7/00	Tickling device
AT543466T T 20120215	US20080100852P 20080929	SHRINERS HOSPITALS FOR CHILDREN [US]	A61F2/64; A61F2/68; A61F2/70; H01H35/02	Knee prosthesis with gravity lock activated
BRMU9002577U U2 20120417	BR2010MU9002577U 20100219	SILVA JORGE LUIZ [BR]	A61G3/08	Jangada acessível
BRPI1001017 A2 20120124	BR2010PI01017 20100331	SILVA SANTOS MANOEL [BR]	A61G5/00	Aperfeiçoamentos introduzidos em cadeira de rodas anfibia para pessoas com mobilidade condicionada
EP2419069 A1 20120222	WO2010SE00093 20100410; SE20090000494 20090415	SJOEGREN HAAKAN [SE]	A61G5/14	Seating furniture facilitating rising
EP2407215 A2 20120118	WO2010KR00080 20100106; KR20090021746 20090313	SNS CARE CO LTD [KR]	A63B22/20	Rowing machine exercise-assisting device
BRPI0905573 A2 20120612	BR2009PI05573 20091216	SOCIEDADE EDUCACIONAL UBERABENSE [BR]	A61H3/02	Dispositivo de alerta para muletas axilares
TWM424144U U 20120311	TW100220575U 20111101	SOLID FOCUS IND CO LTD [TW]; AMERSEN BIOSCIENCE INTERNATIONAL INC [TW]	A61G7/16; A61G5/08	Medical assistance device having both wheelchair and bed functions
TWM427929U U 20120501	TW100220323U 20111028	SOLID FOCUS IND CO LTD [TW]; AMERSEN BIOSCIENCE INTERNATIONAL INC [TW]	A61G5/10	Wheelchair integrated with bedpan and chair functions
KR20120035397 A 20120416	KR20100096890 20101005	SONG HYUN SEO [KR]	A61G5/10; A47C7/14; A47C7/46; A61G5/12	Wheelchair

WO2012078164 A1 20120614	WO2010US59741 20101209	SONGLINE MOBILITY INC [US]; KING DANNIE H [US]; KING NICHOLAS A [US]	A61H3/02; A61H3/00	A multi-configuration walking apparatus
DE102010032533 A1 20120202	DE201010032533 20100728	SORG MARCEL [DE]	A61G5/12	Adjustable headrest for wheelchair, is provided with protecting pad for head or neck of wheelchair user, where pad or headrest is provided with element for placing of pad on user side
DE102010032532 A1 20120202	DE201010032532 20100728	SORG ROLLSTUHLTECHNIKGMB H & CO KG [DE]	A61G5/10	Brake for wheelchair that is utilized to carry children by parent during walking, has brake bolt arranged at lever joint, which is operable by manually-actuatable units over respective cable devices and provided with two cable terminals
NL2005250C C 20120221	NL20102005250 20100819	SOUISA MARINUS JOHANNES [NL]; NOT HANS PIETER VAN [NL]	A61F2/50	Prosthesis system
KR20120041524 A 20120502	KR20100103018 20101021	SPACE SOLUTION CO LTD [KR]	A61G5/06; A61G5/04; A61G5/10	Electromotive means capable of climbing obstacle
KR20120041526 A 20120502	KR20100103020 20101021	SPACE SOLUTION CO LTD [KR]	A61G5/06; A61G5/04; A61G5/10	Electromotive means capable of climbing obstacle using assist-foot
KR20120041528 A 20120502	KR20100103022 20101021	SPACE SOLUTION CO LTD [KR]	A61G5/06; A61G5/04; A61G5/10	Electromotive means capable of climbing obstacle using assist-foot
TWM427935U U 20120501	TW100213269U 20110719	SPORTS ACE INTERNAT TECHNOLOGY CORP [TW]	A61H3/02; A45B9/00	Rod-type handheld aid and middle rod thereof
US2012151674 A1 20120621	US201213409363 20120301; WO2010US47462 20100901; US20090238834P 20090901	STANDAID CORP INC [US]	A61G7/10	Lifting and support device
US2012117926 A1 20120517	US201113105688 20110511; US20100333962P 20100512	STANDER INC [US]	B65B1/04; A61G7/053	Collapsible mobility assistance device

EP2420216 A2 20120222	DE201010034872 20100819	STARK BJOERN [DE]	A61G13/12	Device tailored to the female form for storage and care and treatment of women lying on their stomachs or breasts
DE202012003956U U1 20120516	DE201220003956U 20120420	STEINBORN RICHARD [DE]	A61G7/10; A61G5/14	Erecting and transfer device
HRP20120458T T1 20120630	IT2008RE00040 20080508; WO2009EP55282 20090430	STEM SRL [IT]	A61G1/013; A61G7/012	A stretcher and a patient transport system
RU2452451 C1 20120610	RU20110101287 20110112	STEPANOV VADIM STEPANOVICH [RU]	A61G5/00	Wheel chair (versions)
TWM420315U U 20120111	TW100215967U 20110826	STRENGTHEN MEDICAL INSTR CO LTD [TW]	A61G5/10	Fixing strap for using in disabled people caring
TWM422961U U 20120221	TW100216090U 20110829	STRENGTHEN MEDICAL INSTR CO LTD [TW]	A61G5/10	Sitting-posture fixing belt
TWM424938U U 20120321	TW100210658U 20110610	SU CHING-SUNG [TW]	A61H3/04	Walker with auxiliary power
TW201200120 A 20120101	TW20100120684 20100624	SU FONG CHIN [TW]; CHANG JYH JONG [TW]; CHENG CHENG CHUN [TW]; CHEN TAIN SONG [TW]; CHANG MING HSIANG [TW]; KUNG YING- SHIEH [TW]; CHEN KUO- HSIANG [TW]	A61G5/14	Intelligent moving and standing assistance device
JP2012045300 A 20120308	JP20100192416 20100830	SUN A KK	A61G5/02	Wheelchair stopper and method of resting wheelchair
WO2012077844 A1 20120614	WO2010KR08800 20101209	SUN BRIGHT WELFARE SOC FOR DISABLED INC ASS [KR]; CHO DONG PYO [KR]	E04F11/00; E04F11/02; E04G27/00	Movable side ramp for a doorstep
KR20120044200 A 20120507	KR20100105635 20101027	SUN DONG YOUN [KR]; LEE DONG WON [KR]	A61F2/54; A61F2/56; A61F2/68; A61F2/80	An artificial arm linked with an elbow joint
DE202011051505U U1 20120213	DE201120051505U 20110930	SUNPEX TECHNOLOGY CO [TW]	A61G5/04	Klappanordnung für den fahrzeugrahmen eines elektromobils
TWM419562U U 20120101	TW100215866U 20110825	SUNPEX TECHNOLOGY CO LTD [TW]	A61G5/08	Folding structure of walk-substituting vehicle frame

TWM424142U U 20120311	TW100221337U 20111111	SUNPEX TECHNOLOGY CO LTD [TW]	A61G5/10	Quick release structure of scooter chair
TWM424930U U 20120321	TW100221325U 20111111	SUNPEX TECHNOLOGY CO LTD [TW]	A61G5/10	Scooter frame overlapping structure
TWM425657U U 20120401	TW100221331U 20111111	SUNPEX TECHNOLOGY CO LTD [TW]	A61G5/10	Frame-joining and fixing structure for walk- substituting vehicle
AT553737T T 20120515	US20070008806P 20071221; WO2008EP11015 20081222	SUNRISE MEDICAL GMBH & CO KG [DE]	A61G5/00	Caster strut, wheelchair frame and wheelchair
DE102010060816 A1 20120531	DE201010060816 20101125	SUNRISE MEDICAL GMBH & CO KG [DE]	A61G5/08; A61G5/12	Width-adjustable footrest for folding wheelchair, has two side elements, where each side element connects side frame of wheelchair
AT556689T T 20120515	US20030403558 20030331; WO2004US09879 20040330	SUNRISE MEDICAL HHG INC [US]	A61G5/12; B62B9/12	Seating assembly for wheelchairs and strollers
ES2373691T T3 20120207	US20070878293P 20070103	SUNRISE MEDICAL HHG INC [US]	A61G5/12	Conjunto de montaje de respaldo de asiento de silla de ruedas y silla de ruedas con el mismo.
US2012013098 A1 20120119	US20100838869 20100719	SUNRISE MEDICAL HHG INC [US]	A61G5/00; B60G9/00	Wheelchair modular rear suspension
AT549003T T 20120315	GB20010019279 20010808; WO2002GB03633 20020808	SUNRISE MEDICAL LTD [GB]	A61G5/10; A61G5/00; A61G5/08; E04C3/06	Wheelchair and wheel mounting assembly therefor
AT548012T T 20120315	JP20040204478 20040712	SUNWA LTD [JP]	A61G5/06; A61G5/10; B62D55/075	Stair-climbing wheelchair carrier
CN202105049U U 20120111	CN20112089337U 20110330	SUQING HU	A61F2/66	Foot artificial limb
CN202173534U U 20120328	CN20112235767U 20110706	SUZHOU KANGDI MEDICAL DEVICES CO LTD	A61G5/04; A61G5/10	Portable electric wheelchair

GB2484541 A 20120418	GB20100017474 20101015	TACTILE & ANTI SLIP SYSTEMS & SERVICES LTD [GB]	A61H3/06	Shaftless stud for tactile paving
TWM424939U U 20120321	TW100215176U 20110815	TAIPEI VETERANS GENERAL HOSPITAL [TW]; HO HONG JUNG AUTOMATION CO LTD [TW]; ORIENTAL INST TECHNOLOGY [TW]	A61H3/04	Hand pushing type walking aid
AT537801T T 20120115	EP20090004093 20090323	TAIWAN AN I CO LTD [TW]	A61G5/10; A47C1/03	Wheelchair armrest adjusting mechanism
TW201221122 A 20120601	TW20100141443 20101130	TAIWAN AN I CO LTD [TW]; SHUNDE AN AI INDUSTRY CO LTD [CN]	A61G5/10	Wheelchair tilting device
TWM421113U U 20120121	TW100210931U 20110616	TAIWAN KING STRONG CO LTD [TW]	A61G5/08	Human factor wheelchair
JP2012024401 A 20120209	JP20100167275 20100726	TAKABAYASHI TOSHIAKI; TAKABAYASHI YOSHIKO	A61G5/00	Wheelchair
JP2012081220 A 20120426	JP20100240139 20101007	TAKAHASHI MASAKI	A61H3/04	Electric walker
JP2012040365 A 20120301	JP20100164418 20100722; JP20110157337 20110719	TAKETOMI TADAO	A61G5/00; A61G7/05	Standing-up assisting device
JP2012030021 A 20120216	JP20100182615 20100731	TANIOKA CHIYOKAZU	A61G5/02	Folding multi-purpose prop for wheelchair
EP2428194 A2 20120314	DE201010045209 20100913	TANNEBERGER MICHAEL [DE]	A61G5/08; A61G5/10	Holder for holding a child seat or a child support container on a wheelchair
DE102011018618 A1 20120126	DE201010017961 20100421; DE201110018618 20110421	TECH UNI KAISERSLAUTERN [DE]	A61G3/06	Entry aid for facilitating height difference between platform and mobility-impaired person for bridging rail vehicle, has two axially parallel linear guides spaced from each other in lateral manner
US2012042918 A1 20120223	US201113212839 20110818; US20100374727P 20100818	TECHNOLOGY INNOVATORS INC [US]	A61H3/00; A45B9/02; B62B3/00	Mobility assistance devices

WO2012034561 A2 20120322	DK20100070396 20100914	TEISEN-SIMONY CLAUDE [DK]; XIGN LTD D [GB]	A41D13/12; A61G7/10	A two-part clothing for a disabled person
EP2453846 A2 20120523	WO2010US41997 20100714; US20090225439P 20090714; US20090630934 20091204	TENSEGRITY PROSTHETICS INC [US]	A61F2/60; A61F2/62; A61F2/68; B25J17/00	Joints for prosthetic, orthotic and/or robotic devices
AT546122T T 20120315	DE200920003535U 20090312	TEO INDUSTRIEDESIGN GMBH [DE]	A61H7/00; A47G27/02; A61H3/06; A63B6/00; A63B23/04; E04F15/10	Begehbare platte zur förderung der motorik von lebewesen, insbesondere der menschlichen motorik
CN202127933U U 20120201	CN20112237617U 20110707	TIANJIN BREATHE INTERNET TECHNOLOGY DEV CO LTD	A45B3/00; A61H3/02; G01S19/42	Automatic alarming walking stick based on gps positioning
CN202113249U U 20120118	CN20112108002U 20110413	TIANJIN CHIYUAN BICYCLE CO LTD	A61G5/10	Wheelchair boosting frame
CN102310878 A 20120111	CN20111254454 20110831	TIANJIN XINCHENGXIN TECHNOLOGY TRADE CO LTD	B62B5/02	Hand pulling upstairs going type shopping trolley
US2012133113 A1 20120531	JP20090132605 20090601; WO2010JP59181 20100531	TMSUK CO LTD [JP]	A61G5/10	Transfer and locomotion apparatus
JP2012105817 A 20120607	JP20100257003 20101117	TOKAI RUBBER IND LTD; RIKAGAKU KENKYUSHO	A61G7/10; B25J5/00; B25J13/08	Robot system
JP2012071099 A 20120412	JP20100193953 20100831; JP20110101152 20110428	TOKAI RUBBER IND LTD; UNIV KYUSHU	A61G5/00; A61G5/02	Cushion and wheelchair
CN202096371U U 20120104	CN20112148239U 20110511	TONG XIAFEI	A61G5/00; A61G5/10	Seat of tricycle
DE202012100468U U1 20120313	DE201220100468U 20120210	TOPRO AS [NO]	A61H3/04; B60B33/00	Rollator mit abnehmbaren rädern

DE202012100469U U1 20120313	DE201220100469U 20120210	TOPRO AS [NO]	A61H3/04; F21V33/00	Rollator mit lichtquelle
DE202012100470U U1 20120313	DE201220100470U 20120210	TOPRO AS [NO]	A61H3/04; A45B3/00	Rollator mit schwenkbarer schirmhalterung
JP2012034830 A 20120223	JP20100177415 20100806	TOSHINTEC KK	A61G3/00	Wheelchair securing device
US2012065743 A1 20120315	GB20080023228 20081219; WO2009GB02919 20091218	TOUCH EMAS LTD [DE]	A61F2/54; B29C43/02; B29C45/00; B29C71/00	Prosthesis covering
AT556678T T 20120515	GB20080004933 20080317; GB20080010519 20080609; WO2009GB50248 20090313	TOUCH EMAS LTD [GB]	A61F2/50; A61F2/58	Prosthesis covering
DK2135588T T3 20120123	GB20050024284 20051129; EP20060765015 20060719	TOUCH EMAS LTD [GB]	A61F2/58; A61F2/68	Proteser med mekanisk fungerende digitus- elementer
EP2445455 A1 20120502	WO2010GB01232 20100623; GB20090010920 20090624	TOUCH EMAS LTD [GB]	A61F2/58; A61F2/68; A61F2/76	Method of controlling a prosthesis
WO2012035797 A1 20120322	JP20100205682 20100914	TOYOTA AUTO BODY CO LTD [JP]; HORIGUCHI KENJI [JP]; INAGUMA YUKIO [JP]	A61G3/00; B60P3/00	Welfare vehicle
WO2012077467 A1 20120614	JP20100271416 20101206	TOYOTA AUTO BODY CO LTD [JP]; INAGUMA YUKIO [JP]; HORIGUCHI KENJI [JP]	B60P3/00; A61G3/00; B60P1/44; B66F7/28	Lift apparatus for vehicle
US2012023661 A1 20120202	US20100847640 20100730	TOYOTA ENG & MFG NORTH AMERICA [US]; ILLINOIS TECHNOLOGY INST [US]	A61G7/10; A61G5/14	Physical assistive robotic devices and systems

JP2012035076 A 20120223	US20100847410 20100730	TOYOTA ENG & MFG NORTH AMERICA; ILLINOIS TECHNOLOGY INST	A61H3/04; A45B1/00; A61G5/04	Robotic cane device
WO2012081107 A1 20120621	WO2010JP72680 20101216	TOYOTA MOTOR CO LTD [JP]; IMAIDA MASAYUKI [JP]; OSAWA KOJI [JP]	A61H3/00	Walking assist apparatus
WO2012070134 A1 20120531	WO2010JP70976 20101125	TOYOTA MOTOR CO LTD [JP]; KONISHI KENTA [JP]	A61H3/00	Walking assistance device
JP2012045251 A 20120308	JP20100191707 20100830	TOYOTA MOTOR CORP	A61H3/00; A61F2/64; A61F2/68	Device for supporting leg action
JP2012050718 A 20120315	JP20100196329 20100902	TOYOTA MOTOR CORP	A61H3/00	Walking aid
JP2012085891 A 20120510	JP20100236100 20101021	TOYOTA MOTOR CORP	A61B5/11; A61H3/00	Walking ability measuring apparatus
JP2012090758 A 20120517	JP20100240438 20101027	TOYOTA MOTOR CORP	A61H3/00	Leg orthosis
JP2012095792 A 20120524	JP20100245002 20101101	TOYOTA MOTOR CORP	A61H3/00	Leg device
JP2012095953 A 20120524	JP20100248546 20101105	TOYOTA MOTOR CORP	A61H3/00	Walking support device
JP2012100983 A 20120531	JP20100253827 20101112	TOYOTA MOTOR CORP	A61H3/00	Walking support device
JP2012105732 A 20120607	JP20100255232 20101115	TOYOTA MOTOR CORP	A61H1/02; A61H3/00	Rehabilitation assisting device
WO2012087651 A2 20120628	US20100976798 20101222	TRANSFER SOLUTIONS LLC [US]; JOHNSON PAUL F [US]; ADCOCK DAVID CHARLES [US]; CLARK BRIAN DOUGLAS [US]; FAGEROOS VICTOR JON [US]	A61G3/08	Wheelchair docking system
WO2012054963 A1 20120503	AU20110904017 20110930; AU20100904735 20101025	TRI CYCLE PTY LTD [AU]; ROSS DARREN STUART [AU]; SEYMOUR ANDREW PAUL [AU]	A47C20/00; A47G9/10; A61G7/07	Head and/or neck support device and method



KR20120044683 A 20120508	KR20100106117 20101028	TRIPLE C MEDICAL CORP [KR]	A61H3/00; A61H1/02; A63B23/04	Energy storage-emission type of knee-ankle joint in gait assistance device
KR20120047401 A 20120514	KR20100108938 20101104	TRIPLE C MEDICAL CORP [KR]	A61H3/00; A61H1/02; A63B23/08	Energy storage-emission type of ankle joint and foot in gait assistance device
US2012085377 A1 20120412	US201113117968 20110527; US20100901538 20101010	TROUT WILLIAM G [US]	A61H3/00	Assistive walker apparatus
US2012159705 A1 20120628	JP20100140086 20100621; WO2011JP03496 20110620	TSUKADA SHOHEI [JP]; KUME YOHEI [JP]; KAWAKAMI HIDEO [JP]; NAKAMURA TOHRU [JP]; UEDA TOSHIHIDE [JP]	A61G5/00; A61G7/002	Bed and wheelchair
WO2012023877 A1 20120223	RU20100133964 20100816	TURZHANSKI BORIS UREVICH [RU]	A47K11/00; A47K13/00; A47K17/00; E03D7/00	General-purpose toilet with a transport platform for people with disabilities
WO2012086202 A1 20120628	JP20100285910 20101222	UDESIGN CO LTD [JP]; SAKIMA TAMOTSU [JP]; SHINJO ATSUSHI	A61F5/02; A61H3/00	Joint support brace and rehabilitation device
PT1503707E E 20120308	US20020377119P 20020425; US20020417268P 20021009; US20020427777P 20021120; US20030455809P 20030319	ULTRAFLEX SYSTEMS INC [US]	A61F5/00; A61H3/00; A61F5/01	Ambulating knee joint
BRPI1004279 A2 20120214	BR2010PI04279 20100505	UNICAMP [BR]	G06F3/03	Dispositivo assistivo de interface homem-máquina e equipamento controlados pelo mesmo
TWM422965U U 20120221	TW100218086U 20110927	UNITREND CO LTD [TW]	A61H3/04	Walking assistance device capable of adjusting width
ES1077039U U 20120528	ES20120030498U 20120509	UNIV ALCALA HENARES [ES]	A61H3/04	Andador ortico con electronica de actuacion
CN202136506U U 20120208	CN20112257705U 20110720	UNIV ANHUI SCI & TECHNOLOGY	A61G5/10	Toilet device mounted on wheelchair

CN202184873U U 20120411	CN20112328562U 20110902	UNIV BEIHANG	A61G5/08	Aboard disabled wheelchair of large civil aircraft
CN202184885U U 20120411	CN20112202298U 20110616	UNIV BEIJING UNION	A61G7/075	Leg assisting rehabilitation device
TW201206404 A 20120216	TW20100126623 20100810	UNIV CHANG GUNG [TW]	A61F2/60; A61F2/68	Prosthesis sensing and compensation system
TW201206412 A 20120216	TW20100126624 20100810	UNIV CHANG GUNG [TW]	A61H3/00	Power auxiliary device for knee joint
TW201212903 A 20120401	TW20100133115 20100929	UNIV CHAOYANG TECHNOLOGY [TW]	A61H3/00	Electric walking aided apparatus with collapsible guiding handle
TW201212904 A 20120401	TW20100133118 20100929	UNIV CHAOYANG TECHNOLOGY [TW]	A61H3/00	Electric walking aid with pressure sensing device
TWM422959U U 20120221	TW100216903U 20110909	UNIV CHENG SHIU [TW]	A61G5/00	An action wheelchair
TW201208660 A 20120301	TW20100124076 20100820	UNIV CHIENKUO TECHNOLOGY [TW]	A61G5/10	Wheelchair structure capable of being easily pushed onto ramp
TWM424933U U 20120321	TW101200323U 20090122	UNIV CHIENKUO TECHNOLOGY [TW]	A61G7/05; A61G7/053	Structure of wheel chair passenger transporting accessory
TWM427140U U 20120421	TW101200324U 20090122	UNIV CHIENKUO TECHNOLOGY [TW]	A61G5/10	Spring booster of wheel chair
TWM429470U U 20120521	TW101200322U 20090122	UNIV CHIENKUO TECHNOLOGY [TW]	A61G3/02; A61G5/00	Structure of power-driven carrier car for wheel chair
CN102319155 A 20120118	CN20111142786 20110530	UNIV CHONGQING POSTS & TELECOM	A61G5/10; G06K9/00	Method for controlling intelligent wheelchair based on lip detecting and tracking
CN102339019 A 20120201	CN20111210600 20110726	UNIV CHONGQING POSTS & TELECOM	G05B13/04; A61G5/00	Intelligent wheel chair obstacle avoidance method based on fuzzy neural network
KR20120068625 A 20120627	KR20100130322 20101217	UNIV DAEGU IACF [KR]	B60W50/08; A61B5/0476; B60K26/00; B60T7/00	Acceleration and deceleration system of driving simulator system for disabled using eeg sensor and control method of thereof
MX2010007308 A 20120102	MX20100007308 20100630	UNIV DE GUANAJUATO [MX]	A61G5/00	Portable device for transporting people in a sit position from and to the inner portion of an automobile.

WO2012024562 A2 20120223	US20100375171P 20100819	UNIV DELAWARE [US]; AGRAWAL SUNIL K [US]; WINFREE KYLE N [US]; STEGALL PAUL [US]; SCHOLZ JOHN P [US]	A61F5/00; A61F5/052; A61H3/00; A63B23/04	Powered orthosis systems and methods
TWM422417U U 20120211	TW100217094U 20110913	UNIV FAR EAST [TW]	A61H3/00	Incline-proof walking aid
TWM430974U U 20120611	TW101201846U 20120201	UNIV FAR EAST [TW]	A61H3/00	Walking-assist rehabilitation device with distance measurement function
BRPI1006321 A2 20120626	BR2010PI06321 20100720	UNIV FED DO ESPIRITO SANTO UFES [BR]	G06F3/00; A61F4/00	Sistema assistivo aplicado a uma cadeira de rodas robótica
JP2012061262 A 20120329	JP20100210144 20100917	UNIV GIFU	A61F2/58; A61F2/64; A61H3/00; B25J17/00	Wearable action supporting device
WO2012039479 A1 20120329	JP20100214578 20100924	UNIV GIFU [JP]; DAINICHI CO LTD [JP]; KAWASAKI HARUHISA [JP]; MOURI TETUYA [JP]; HARA TETUYA [JP]; SHIMOMURA HISAYUKI [JP]	B25J15/08; A61F2/56	Humanoid electric hand
KR101123860B B1 20120316	KR20110092841 20110915	UNIV INCHEON IND ACAD COOP [KR]	A61G5/06; A61G5/04; A61G5/10	Moving apparatus for a wheelchair
KR101118135B B1 20120312	KR20100099970 20101013	UNIV INJE IND ACAD COOPERATION [KR]	A61H3/04; A61H3/00	Walking assistant
KR20120053653 A 20120529	KR20100114879 20101118	UNIV INJE IND ACAD COOPERATION [KR]	A61H3/02	Roly poly crutches
CN202126600U U 20120125	CN20112171279U 20110526	UNIV JIANGSU SCIENCE & TECH	G05B19/042; A61G5/10	Intelligent voice drive control device of wheel chair
CN102415932 A 20120418	CN20111213077 20110728	UNIV JINAN	A61H1/00	Tongue root trainer
DE102010053114 A1 20120531	DE201010052731 20101126; DE201010053114 20101201	UNIV KASSEL [DE]	A61F2/54; A61F2/56; A61F2/68	Hand prosthesis connected to forearm adapter for holding objects e.g. Forceps, has driven rope wheels for fingers that are elastically connected with rotatable shaft
KR20120062563 A 20120614	KR20100123868 20101206	UNIV KOREA RES & BUS FOUND [KR]	A63F13/00; A61B5/0484; A61M21/00	Apparatus and method for playing a game using a brain wave

CN202105116U U 20120111	CN20112165240U 20110523	UNIV KUNMING SCIENCE & TECH	A61G5/10; A61G5/06	Functional position switching mechanism of stair-climbing wheelchair
KR20120042524 A 20120503	KR20100104241 20101025	UNIV KYUNG HEE UNIV IND COOP [KR]	A61H3/00; A61H3/04; G06K9/00	Walking assisting device having user recognition function
ES2379617 A1 20120430	ES20090002096 20091029	UNIV MALAGA [ES]; ENESO TECNOLOGIA DE ADAPTACION	G06F3/01; A61F4/00	Dispositivo de control accesible de sistemas electronicos y mecanicos mediante la monitorizacion del movimiento de una parte del cuerpo humano.
WO2012078592 A1 20120614	US20100963113 20101208	UNIV MASSACHUSETTS; GUGLIOTTI JOHN JOSEPH [US]; PARKIN ROBERT EDWARD [US]	A61G5/08	Convertible wheelchair
TW201221919 A 20120601	TW20100141361 20101130	UNIV NAN KAI TECHNOLOGY [TW]	G01G19/44	Electronic weighing chair
TW201223516 A 20120616	TW20100143339 20101210	UNIV NAN KAI TECHNOLOGY [TW]	A61G5/10	Wheelchair with inflatable lifesaving means
CN102319157 A 20120118	CN20111241046 20110822	UNIV NANCHANG	A61G7/05	Back raising mechanism for nursing wheel chair bed
CN102319161 A 20120118	CN20111240991 20110822	UNIV NANCHANG	A61H1/00; A61G7/05	Upper leg rehabilitation mechanism of nursing wheel chair bed
CN202105114U U 20120111	CN20102670493U 20101209	UNIV NANCHANG	A61G5/10; A61G5/04; G01C21/28; G01C21/34	Embedded visual guidance control system of intelligent wheel chairs
CN102415929 A 20120418	CN20111272115 20110915	UNIV NANJING SCIENCE & TECH	A61G5/06; A61H1/00	Electric wheel chair with waist exercising function
CN202096374U U 20120104	CN20102662078U 20101215	UNIV NANKAI	A61G5/04; A61B5/0496; A61B5/11; G05B19/042; G06F3/01	Intelligent wheelchair based on eye electric signals and head movement signals
TW201219028 A 20120516	TW20100137717 20101103	UNIV NAT CENTRAL [TW]	A61G7/00; B25J11/00	Useful for feeding food to the disabled

TW201219027 A 20120516	TW20100137814 20101103	UNIV NAT TAIPEI TECHNOLOGY [TW]	A61G3/06	Providing a stable inclined board auxiliary device for a user's walk-substituting tool as getting in and out of a vehicle
TW201214932 A 20120401	US20100895148 20100930	UNIV NAT TAIWAN [TW]	H02K7/18; A61G5/04	Wheel driven mechanism
CN202198768U U 20120425	CN20112242171U 20110711	UNIV NINGBO	A61G5/06; A61G5/10	Wheel chair capable of climbing steps
US2012116540 A1 20120510	US201113200703 20110928; US20090462050 20090728; US20080137746P 20080731; US20100404467P 20101004	UNIV NORTHWESTERN	A61F2/66; B23B35/00; B23P17/04; B24B1/00; B26D3/00; B29C39/00; B29C45/00	Prosthetic foot and method of making
US2012016493 A1 20120119	US201113066361 20110412; US20100342281P 20100412	UNIV NORTHWESTERN [US]	A61F2/66	Passive ankle-foot prosthesis and orthosis capable of automatic adaptation to sloped walking surfaces and method of use
JP2012081018 A 20120426	JP20100229019 20101008	UNIV OF OCCUPATIONAL & ENVIRONMENTAL HEALTH JAPAN; FUKUOKA PREFECTURE	A61H3/00; A61F2/64; A61F2/70	Motion detector, knee immobilization release device, and lower extremity orthosis
JP2012081243 A 20120426	JP20100209032 20100917; JP20100263056 20101126	UNIV OITA	A61G5/02	Wheelchair with automatic brake
US8185982 B1 20120529	US20080325101 20081128; US20070004497P 20071128	UNIV PUERTO RICO [US]	A47K3/28	Integrated showering and body support system
BRPI1002778 A2 20120403	BR2010PI02778 20100723	UNIV SAO PAULO [BR]	A61G5/12; A47D13/04; A61H3/00	Dispositivo deambulatório autotransferente
ES2383412 A1 20120621	ES20100031779 20101130	UNIV SEVILLA [ES]	A45B3/08; A61B5/11; A61H3/02	Sistemas de medicion de cargas en bastones de antebrazo

CN102309366 A 20120111	CN20111215580 20110721	UNIV SHANDONG SCIENCE & TECH	A61F2/70; G06K9/00	Control system and control method for controlling upper prosthesis to move by using eye movement signals
CN102319130 A 20120118	CN20111215552 20110721	UNIV SHANDONG SCIENCE & TECH	A61F2/72	Control system and method for triggering multi-degree-of-freedom movement of upper artificial limbs by using toe
CN202105117U U 20120111	CN20112209945U 20110621	UNIV SHANDONG SCIENCE & TECH	A61G5/10	Antislip device for wheelchair
CN202128569U U 20120201	CN20112245338U 20110630	UNIV SHANDONG SCIENCE & TECH	A61F2/56	Three-degree-of-freedom adjustable artificial limb upper arm
CN202128647U U 20120201	CN20112150108U 20110512	UNIV SHANDONG SCIENCE & TECH	A61G5/00; A61G5/10	Wheelchair facilitating disabled person to use computer
CN202136503U U 20120208	CN20112230776U 20110701	UNIV SHANDONG SCIENCE & TECH	A61G5/04; A61G5/10	Voice controlled obstacle-avoidance wheelchair
CN202143678U U 20120215	CN20112173340U 20110527	UNIV SHANDONG SCIENCE & TECH	A61G5/00; A61G5/10	Novel wheelchair
CN202154772U U 20120307	CN20112275261U 20110721	UNIV SHANDONG SCIENCE & TECH	A61F2/68	Control system for triggering artificial upper limb to move in multiple degrees of freedom by toe
CN202161439U U 20120314	CN20112275264U 20110721	UNIV SHANDONG SCIENCE & TECH	A61F2/70	Control system capable of controlling movement of upper artificial limbs through eye movement signals
CN202168926U U 20120321	CN20112249630U 20110713	UNIV SHANDONG SCIENCE & TECH	A61H3/06; A45B3/00	Walking stick with voice navigation system
CN202154806U U 20120307	CN20112177708U 20110530	UNIV SHANDONG TECHNOLOGY	A61G5/06; A61G5/10	Novel detachable shopping wheelchair elevator in/out device
CN102319154 A 20120118	CN20111234169 20110816	UNIV SHANGHAI DIANJI	A61G5/06; A61G5/10	Stair climbing wheel chair
CN102366339 A 20120307	CN20111342256 20111102	UNIV SHANGHAI DIANJI	A61G5/04	Rotary lifting type wheel chair
CN202191420U U 20120418	CN20112314325U 20110825	UNIV SHANGHAI MARITIME	A61G5/00	Riding auxiliary wheel chair
CN102397118 A 20120404	CN20101286882 20100919	UNIV SHANGHAI SCIENCE & TECH	A61F2/66; A61F2/70	Bionic ankle joint

CN202128568U U 20120201	CN20102684112U 20101228	UNIV SHANGHAI SCIENCE & TECH; DANYANG PROSTHESES FACTORY CO LTD	A61F2/54; A61F2/68; A61F2/72	Human artificial hand controlled by double signal sources
JP2012066375 A 20120405	JP20100190125 20100826; JP20110135342 20110617	UNIV SHINSHU	B25J13/00; A61F2/64; A61F2/66; A61F2/70; A61H3/00	Robotic suit
CN102309380 A 20120111	CN20111268891 20110913	UNIV SOUTH CHINA TECH	A61G5/04; G06F3/01	Intelligent wheelchair based on multimode brain-machine interface
US8186367 B1 20120529	US20100836981 20100715; US20090227246P 20090721	UNIV SOUTH FLORIDA [US]	A61H3/00	Foldable walker
CN102379759 A 20120321	CN20111244394 20110825	UNIV SOUTHEAST	A61F2/54; A61F2/72	Myoelectric prosthetic hand for self-rehabilitation training of patients with hand dysfunction
CN102379760 A 20120321	CN20111244446 20110825	UNIV SOUTHEAST	A61F2/72; A61F2/54	Myoelectric prosthetic hand force tactile feedback method and tactile feedback myoelectric prosthetic hand system
TW201201784 A 20120116	TW20100122696 20100709	UNIV SOUTHERN TAIWAN [TW]	A61G5/04	Wheelchair movable with a single leg
CN202113258U U 20120118	CN20112182632U 20110601	UNIV SOUTHWEST PETROLEUM	A61G7/015; A61G7/05	Labor-saving sitting-up bed
CN202113290U U 20120118	CN20112182567U 20110601	UNIV SOUTHWEST PETROLEUM	A61H1/02	Upper limb and lower limb mutual assistance type rehabilitation instrument
CN202168924U U 20120321	CN20112176572U 20110530	UNIV TIANJIN SCIENCE & TECH	A61H3/00	Self-contained lower limb walking aid
CN202179592U U 20120404	CN20112176431U 20110530	UNIV TIANJIN SCIENCE & TECH	A61B19/00; A61H3/00	Walk protection device for slip-and-fall gait experiment
JP2012085854 A 20120510	JP20100235544 20101020	UNIV TOTTORI; WEED MEDICAL KK	A61G5/04; B60B19/00	Level difference ascending/descending device and electric wheelchair using the same
JP2012066123 A 20120405	JP20110286137 20111227	UNIV TSUKUBA	A61F2/56; A61F2/72; A61H3/00	Wearable movement assisting device and method of controlling the same

JP2012120798 A 20120628	JP20100276288 20101210	UNIV TSUKUBA	A61F2/72; A61F2/62; A61H3/00	Wearable input device, human assistance device, and control method for the human assistance device
EP2417941 A1 20120215	WO2010JP56470 20100409; JP20090094695 20090409	UNIV TSUKUBA [JP]	A61F2/72; A61H1/02; A63B23/16	Wearable motion assist device
US2012150321 A1 20120614	US201013391558 20100820; US20090235425P 20090820; WO2010US46054 20100820	UNIV VANDERBILT [US]	A61F2/68	Control system for jointed mechanical devices
US2012150322 A1 20120614	US201013391553 20100820; US20090235421P 20090820; WO2010US46050 20100820	UNIV VANDERBILT [US]	A61F2/58; B25J15/08	Jointed mechanical devices
CN102349850 A 20120215	CN20111282117 20110921	UNIV XI AN TECHNOLOGY	A61H3/02; A61G5/00	Dual-purpose crutch for disabled
CN102302404 A 20120104	CN20111181231 20110630	UNIV ZHEJIANG	A61H1/00; A61F4/00	Walking type under-actuated three-degree of freedom ankle joint movement recovery exoskeleton
CN202173562U U 20120328	CN20112227334U 20110630	UNIV ZHEJIANG	A61H1/00; A61F5/01; A61H3/00	Walk-type driving-lacking three degree-of-freedom ankle movement recovery outer skeleton
SI23421 A 20120131	SI20100000204 20100707	UNIVERZA V LJUBLJANI [SI]	A63B24/00; G01L5/00	Device for assessing and display of vector differences by forces, performed by a pair of hands or legs
WO2012009735 A1 20120119	ZA20100005077 20100716	VAAL UNIVERSITY OF TECHNOLOGY; CAMPBELL ROBERT IAN [GB]; DE BEER DEON JOHAN [ZA]	A61F2/54	Articulating prosthesis



AU2012202572 A1 20120524	US201213418982 20120313; AU20090251143 20091223; AU20120202572 20120502	VEGVARY ALFRED; WARD WAYNE	A61H3/02	Length adjustable crutch
CN102370548 A 20120314	CN20111208580 20110725	VERMEIREN MEDICAL EQUIPMENT CO LTD	A61G5/00; A61G5/10	Single-arm wheelchair
CN102398661 A 20120404	CN20111208172 20110725	VERMEIREN MEDICAL EQUIPMENT CO LTD	B62L1/04; A61G5/00	Brake structure and wheelchair comprising same
CN202179642U U 20120404	CN20112263307U 20110725	VERMEIREN MEDICAL EQUIPMENT CO LTD	A61G5/02; A61G5/10	Single-arm wheelchair
CN202198766U U 20120425	CN20112191899U 20110609; CN20112339625U 20110829	VERMEIREN MEDICAL EQUIPMENT CO LTD	A61G5/02; A61G5/10	Single-arm wheelchair
EP2464297 A1 20120620	US20090462807 20090810; WO2010US02143 20100802	VIRAK ORTHOPEDIC RES LLC [US]	A61B17/00; A61F4/00; A61F5/04	Orthopedic external fixator and method of use
WO2012050976 A2 20120419	US20100387612P 20100929	VOLKER MONICA ANN [US]	A61F13/00; A61B19/00; A61F5/40	Amputation dressings
CZ20100862 A3 20120606	CZ20100000862 20101124	VYSOKY ONDREJ [CZ]	A61H3/02; A61H3/00	Orthopedic aid, especially a stick or crutch
US8201842 B1 20120619	US20100906609 20101018	WATERS DAVID [US]; NEAL BRIAN [US]; NEAL GARY [US]; NEAL CECIL [US]	A61G5/10	Limb elevating accessory
AT552815T T 20120415	US20040625085P 20041105; WO2005US40081 20051104	WEAVER CRAIG [US]	A61H3/00	Walking aid with lever arms
US2012060879 A1 20120315	GB20090003817 20090305; WO2010GB00319 20100223	WEBB EMILY [GB]	A61H3/02; B25G1/10; B63H16/04; B65D55/00	Hand grip and device comprising a hand grip

CN202198764U U 20120425	CN20112221107U 20110628	WEI SHI	A61G5/02; A61H1/00; A63B23/12	Multifunctional wheelchair device capable of preventing deformity of upper body of disabled person
CN202173533U U 20120328	CN20112203461U 20110616	WEI ZHANG	A61G5/00; A61G5/10	Wheelchair with oscillating bars and bidirectional ratchet wheels with rotary pawls
DE102010025712 A1 20120105	DE201010025712 20100630	WILHELM SCHULTE DERNE GMBH [DE]	A61G5/10	Framework for wheelchair, has front wheels and rear wheels, which are mounted on framework in rotating manner, and seat unit mounted on framework, where framework has two shearing elements for vertical adjustment
DE202012100963U U1 20120410	DE201220100963U 20120319	WILLE INGE [DE]	A61F2/78; A61F2/50	Implantable magnetic holder for holding artificial body and arrangement comprising such a magnetic holder and a prosthesis
KR101153371B B1 20120607	KR20110115090 20111107	WINMEDITECH CO LTD [KR]	G08B7/06; G08B17/06; G08B21/02; G09F27/00	Public address system and method for guiding disabled person and thereof speaker
US2012133109 A1 20120531	US201113304972 20111128; US20100417447P 20101128	WRIGHT SHARON S [US]	A61G5/10	Special wheelchair device for fully supporting the feet of the user
TWM426403U U 20120411	TW100219120U 20111012	WU JIN-CANG [TW]	A61H3/04	Walk-assisting vehicle with safety device
ES2375297T T3 20120228	EP20080012317 20080708	WU S TECH CO LTD [TW]	A61G5/04; A61G5/10	Estructura de silla de ruedas.
TWM421110U U 20120121	TW100213129U 20110718	WU S TECH CO LTD [TW]	A61G5/04	Improved structure of wheelchair with auxiliary power vehicle
TWM421111U U 20120121	TW100213130U 20110718	WU S TECH CO LTD [TW]	A61G5/04	Auxiliary power device for wheelchair
TWM430263U U 20120601	TW100213131U 20110718	WU S TECH CO LTD [TW]	A61G5/04	Wheel chair auxiliary power device with pneumatic positioning and returning functions
US2012065742 A1 20120315	TW20100217812U 20100915	WU XIANG-MING [TW]	A61F2/62	Rotation structure of knee joint of artificial limb
CN202168923U U 20120321	CN20112146175U 20110504	WU XIBO	A61H3/00	Multifunctional safe walking aid

PL119395U U1 20120410	PL20100119395U 20101008	WYTWORNIA SPRZETU REHABILITACYJNEGO COMFORT KRYNICCY SPOLKA JAWNA [PL]	A61G5/10	Unit for mounting the road wheel of a cart, especially a wheelchair
CN102309365 A 20120111	CN20111251808 20110830	XI AN JIAOTONG UNIVERSITY SUZHOU ACADEMY	A61F2/50; A61F2/72	Wearable brain-control intelligent prosthesis
WO2012003656 A1 20120112	CN20102256124U 20100708	XIAMEN LENCO CO LTD [CN]; GONG GRAY [CN]	A61G5/02; A61G5/00; A61G5/10	Shock absorber structure of wheelchair front fork
CN102310908 A 20120111	CN20101215855 20100630	XIANGMING HIGH SCHOOL SHANGHAI	B62K11/00; A61G5/04	Scooter
CN102310918 A 20120111	CN20101215867 20100630	XIANGMING HIGH SCHOOL SHANGHAI	B62M6/40; B62M6/60; H02K7/10	Vertical electric vehicle with two side wheels
CN202112907U U 20120118	CN20112221216U 20110627	XIAOBO XIE	A47J31/00; A47J31/46	Pressurized timing water dispenser
CN202184871U U 20120411	CN20112214231U 20110623	XIAOHUI HUANG	A61G5/00; A61G5/10	Multifunctional manual control wheel chair
WO2012034560 A2 20120322	DK20110070350 20110630; DK20100070397 20100914	XIGN LTD D [GB]; TEISEN- SIMONY CLAUDE [DK]	A61G7/10	A lifting and transport assembly for a disabled person
CN202198765U U 20120425	CN20112259155U 20110721	XINGCHANG ZHANG	A61G5/02; A61G5/10	Wheelchair
CN202179641U U 20120404	CN20112254609U 20110719	XINHE ZHENG	A61G5/00	Multidirectional-moving multifunctional wheelchair for disabled
CN202179658U U 20120404	CN20112252541U 20110718	XINHE ZHENG	A61G12/00; A61J1/00; G01S19/42; G08B21/02	Search and rescue card for old people and mentally disabled people
CN202128655U U 20120201	CN20112246139U 20110713	XINTING ZHANG	A61G7/075	Upper limb lifting frame
CN202161498U U 20120314	CN20112196337U 20110613	XINYE LI	A61G5/00; A61G5/10; A61G7/14	Internal rotation-type wheelchair
CN202191423U U 20120418	CN20112313580U 20110826	XIUCHUAN ZHANG	A61G5/06	Wheel chair capable of climbing stairs

CN202154837U U 20120307	CN20112206211U 20110610	XIUQING NIE	A61H3/02; A61H3/04	Multifunctional crutch for later stage of orthopedic rehabilitation
CN202136501U U 20120208	CN20112251397U 20110716	XIXIA SUN	A61G5/00; A61G5/10; A61H3/04	Multifunctional recovery wheel chair
TWM423551U U 20120301	TW100220144U 20111026	XU YAO-FA [TW]	A61G7/02	Palliative care bed chair for both sitting and sleeping
CN202151419U U 20120229	CN20112240682U 20110711	XUZHEN SUN; PING XU	A61H1/00	Multifunctional lower limb rehabilitation device
JP2012121479 A 20120628	JP20100274375 20101209	YAMAHA MOTOR ENGINEERING KK	B62K5/04; A61G5/02; A61G5/04; B60T7/12; B62M6/65	Vehicle
TWM424929U U 20120321	TW100220432U 20111031	YANG BO-XUAN [TW]	A61G5/08	Fold-up wheelchair
CN102309394 A 20120111	CN20111240283 20110819	YANG CAO	A61H1/02	Health-care chair for helping disabled person to move
CN202191450U U 20120418	CN20112304852U 20110819	YANG CAO	A61H1/02	Sports fitness chair for assisting disabled persons
CN202161530U U 20120314	CN20112259427U 20110721	YANGBO YI	A61H3/04	Folding/unfolding location device of walking-assistance vehicle
CN202163565U U 20120314	CN20112259418U 20110721	YANGBO YI	B62L3/02; A61H3/04	Rollator brake locking device
CN202122680U U 20120125	CN20112187047U 20110607	YANJUN LIU	A61H3/02	Multifunctional crutch head
CN202130308U U 20120201	CN20112214850U 20110623	YANTAO YIN	B60K23/02; B60K26/02; B60T7/10	Automobile operation device
JP2012081142 A 20120426	JP20100231035 20101014	YASUI EMI	A61H3/00; A61F2/68	Walk assisting device
WO2012070507 A1 20120531	JP20100259624 20101122	YASUI MEGUMI [JP]; YASUI KATSUAKI [JP]	A61H3/00; A61H3/02	Walking assistance device
CN202113244U U 20120118	WO2010JP66412 20100922; WO2010JP00875 20100212	YDS CO LTD	A61G3/00	Wheel chair transporting device
KR101126684B B1 20120329	KR20110088363 20110901	YI GUN HUE [KR]	A61F5/41	Assistance medical device for the disabled

CN202161501U U 20120314	CN20112251803U 20110718	YINGE XU	A61G5/04; A61G5/10	Convenient electric oxygen-inhalation and abdomen-supporting wheelchair for transporting pregnant woman for examination
CN202198770U U 20120425	CN20112316398U 20110829	YONGZHAN WANG	A61G5/06; A61G5/10	Upstairs and downstairs walk substituting machine
JP2012005804 A 20120112	JP20100160083 20100628	YOSHIZAWA NOBUYUKI	A61H3/00; A61F5/01; A61F5/02	Assistant orthosis for ankle fixation
CN202161502U U 20120314	CN20112042178U 20110218; CN20112264764U 20110726	YUCHUAN LIN	A61G5/04; A61G7/02; A61G7/16	Wheelchair capable of being used as bed or chair in automatically switched manner
CN202161528U U 20120314	CN20112238976U 20110706	YUPIAO HONG	A61H3/02; A45B9/02	Crutch structure
JP2012056537 A 20120322	JP20100204520 20100913	YUUBA SANGYO KK	B62B3/02; A61H3/04; B62B5/00; B62B5/06	Handcart
CN102339520 A 20120201	CN20101230134 20100719	YUYING LIU	G08B21/04	Elder body state monitoring device
US8113587 B1 20120214	US20100687022 20100113	ZARINFAR MAJID [US]; DE LA ROSA HENRY [US]	A61G3/00; A47C4/00; A47C7/00; A61G5/00	Portable lift chair
US2012048318 A1 20120301	US201113221512 20110830; US20100378530P 20100831	ZENDZIAN TODD [US]; ZENDZIAN MARY BETH [US]	A61H3/00; A47C7/52; B23P11/00	Knee sling for use with walker
CN102327163 A 20120125	CN20111171108 20110623	ZHANGJIAGANG MEDYCON MACHINERY CO LTD	A61G5/00; A61G5/10	Wheelchair
CN102306438 A 20120104	CN20111119035 20110510	ZHANGZHOU KAIBANG ELECTRONICS CO LTD	G08B19/00; G08B7/06	Method and device for disabled person to acquire environmental information
CN202154807U U 20120307	CN20112178016U 20110531	ZHAO ZHI	A61G5/06; A61G5/10	Electric stairs-climbing wheelchair
CN202191232U U 20120418	CN20112280797U 20110729	ZHAODI SHEN	A47K7/02; A61H7/00; B05B1/12; B05B1/22	Multi-function hydrodynamic type bathing scrubber
CN202128648U U 20120201	CN20112172775U 20110525	ZHEJIANG FEISHEN VEHICLE CO LTD	A61G5/06	Electric wheelchair with obstacle crossing function
TWM424931U U 20120321	TW100222795U 20111201	ZHENG XI-MING [TW]	A61G5/12	Vertical adjustment device of wheelchair footrest

CN202146418U U 20120222	CN20112257723U 20110718	ZHIFANG DU	A61H3/04	Adult recovery walking aid
CN202122624U U 20120125	CN20112064239U 20110314	ZHONGHUA DU	A61F2/78	Splint type thigh and upper arm prosthetic socket
CN202122625U U 20120125	CN20112022035U 20110124	ZHONGHUA DU	A61F2/80	Frame-type crus and forearm artificial limb accepting cavity
CN202098159U U 20120104	CN20112189052U 20110603	ZHONGQI ZHANG	B43K23/004	Pencil matched with small arm for use
CN202184902U U 20120411	CN20112195923U 20110610	ZHONGSHAN YUMIN DAILY PRODUCT CO LTD	A61H3/00	Walking aid
CN202179644U U 20120404	CN20112167115U 20110524	ZHONGTU SUN	A61G5/06; A61G5/10	Wheelchair capable of climbing stairs
CN202136507U U 20120208	CN20112054201U 20110304	ZHUANGMEI GAO	A61G5/14; A47K11/04; A61G5/00	Power-assisted chair
CN202105115U U 20120111	CN20112024786U 20110120	ZONGXIANG XU	A61G5/10	Wheelchair brake assembly
TWM427153U U 20120421	TW100224717U 20111227	ZOU HUI-JUN [TW]	A61H3/04	Foldable walking aided cart
EP2469006 A1 20120627	IT2010VI00347 20101223	ZUIN LORIS [IT]	E06B9/04; A61G7/10; B61D19/00	Casing for doors mounted in rooms provided with disabled persons lifting and transport mechanism

## ANEXO I - Códigos dos Países

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

Fonte: <http://www.wipo.int/export/sites/www/scit/en/standards/pdf/03-03-01.pdf>, acesso em maio de 2012.

<sup>1</sup> Organização intergovernamental (escritório de patente regional) que atua para alguns países contratantes sob o PCT (Tratado de Cooperação de Patentes).

<sup>2</sup> 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.