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Search 9: double glass in VEHICLES (Results 0)
Search 10: vehicle for the disabled (Results 100)

Title: Dual-purpose wheelchair driven by IC engine and hand

Abstract: The utility model relates to a dual-purpose wheelchair driven by an IC engine and hands. The utility model is composed of back wheels, a supporting frame, a seat cushion and guiding wheels of an ordinary wheelchair. An IC engine mounting frame is installed on a supporting frame. The utility model is provided with an engine cylinder and a piston crank link mechanism. The speed of the utility model is reduced through gears to drive the back wheels to run. The utility model has dual-purpose with one chair, and enlarged use function, so the utility model can be used as ideal automotive **vehicle for the disabled** and old people.

Classifications:

International (IPC 8-9): A61G3/08 (Advanced/Invention);

A61G3/00 (Core/Invention)

International (IPC 1-7): A61G3/08

Family:

Publication number	Publication date	Application number	Application date
 CN2231541 Y	19960724	CN19952025055U	19951031

Priority:

CN19952025055U 19951031

Probable Assignee: MA BAOXIANG

Assignee(s): (std): MA BAOXIANG

Inventor(s): (std): BAOXIANG MA ; LI ZUJING ; MA BAOXIANG ; ZUJING LI

Legal status (INPADOC)

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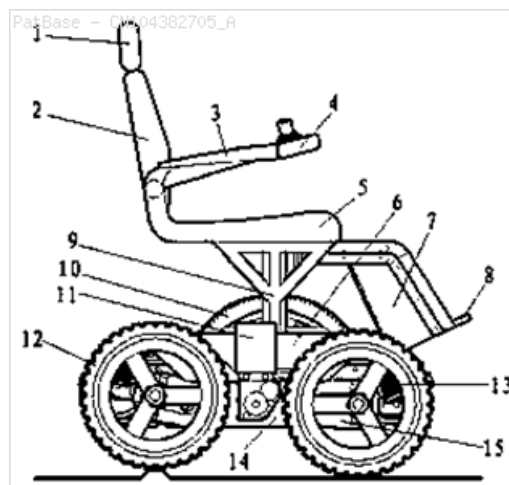
Patent	Date recorded	Event group	Code	Event	Details
CN2231541 Y	19960724	LSGT	+	granted / extensions (spc, cpc, pte)	
CN2231541 Y	19960724	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN2231541 Y	19971217	LSLE	-C19	LAPSE OF PATENT RIGHT DUE TO NON-PAYMENT OF THE ANNUAL FEE	
CN2231541 Y	20051031	PEXP		Calculated Patent Term Expiry	

Title: OFF-ROAD STAIR-CLIMBING WHEELCHAIR CAPABLE OF REALIZING WHEEL AND TRACK SWITCHING

Abstract: The invention relates to a **vehicle for the disabled**, particularly to an off-road stair-climbing wheelchair capable of realizing wheel and track switching and being driven independently. The off-road stair-climbing wheelchair capable of realizing wheel and track switching comprises a seat mechanism, a seat balancing mechanism, a frame, a four-wheel driven traveling mechanism, a lifting mechanism, a track traveling mechanism, a universal wheel traveling mechanism and the like which are connected with one another. The wheelchair mainly comprises two traveling mechanisms, namely, the track traveling mechanism and the four-wheel driven traveling mechanism, mutual switching usage is realized through the lifting mechanism between the two traveling mechanisms, the wheelchair can go up and down stairs, run on flat grounds, sand beaches and snowfields, climb slopes, cross countries and cross ditches and steps as well as be conveniently and automatically switched to the universal wheel traveling mechanism mode for traveling on a flat and smooth road surface. The purpose that the disabled and the aged who are difficult in walking can have one off-road stair-climbing wheelchair which is complete in function, mature in technology and capable of being driven independently is achieved actually.

Classifications:

International (IPC 8-9): A61G5/06 A61G5/08
A61G5/10 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN104382705 A	20150304	CN201410801565	20141222
CN104382705 B	20171013	CN201410801565	20141222

Priority:

CN201410715290 20141121 CN201410801565 20141222 CN201420817554U 20141222

Probable Assignee: WANG ZHENG DONG

Assignee(s): (std): WANG ZHENG DONG

Inventor(s): (std): WANG ZHENG DONG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN104382705 A	20150304	LSPB	+	published / reissued	
CN104382705 A	20150304	LSPB	+C06	PUBLICATION	
CN104382705 B	20171013	LSGT	+	granted / extensions (spc, cpc, pte)	
CN104382705 B	20171013	LSGT	+GR01	PATENT GRANT	
CN104382705 B	20341222	PEXP		Calculated Patent Term Expiry	

Title: WHEEL CHAIR CUM CAR SEAT SYSTEM AND METHOD FOR PREPARATION THEREOF

Abstract: Wheel chair cum car seat system and method for preparation thereof The present invention relates to wheelchair for transportation of disabled person. The wheelchair comprises forks mounted on horizontal rails, collapsible wheel assembly and pneumatic system for retraction and expansion of wheel assembly. The advantage of this wheel chair cum car seat is that passenger can convert his/her wheelchair to car seat with very less effort. Passenger can go to the market, shopping malls and office on the same wheelchair and can sit in car with the same wheelchair as car seat without requiring changeovers. Only a standard car passenger seat has to be detached from vehicle. Registrar

Classifications:

International (IPC 8-9): A61G (Advanced/Invention);
A61G (Subclass/Invention)

Family:

Publication number	Publication date	Application number	Application date
IN03587DE2013 A	20150612	IN2013DE03587	20131210

Priority:

IN2013DE03587 20131210

Probable Assignee: UNIV AMITY
Assignee(s): (std): UNIV AMITY
Assignee(s): AMITY UNIV
Inventor(s): (std): GAURAV GUPTA

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
IN03587DE2013 A	20150612	LSPB	+	published / reissued	

Title: PNEUMATIC POWER DEVICE FOR BICYCLE

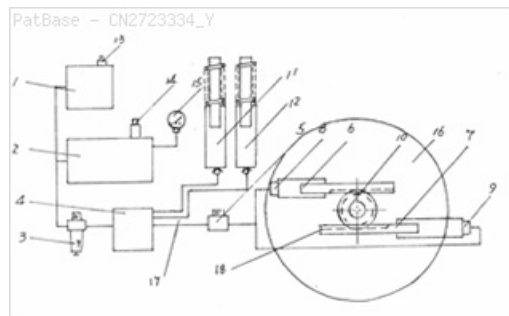
Abstract: The utility model relates to a pneumatic power device for a bicycle which makes use of the compressed air as a power source used for installing on motor vehicles, such as a bicycle, a mobility assistance vehicle, and a **vehicle for the disabled**, belonging to the technical field of the vehicle power transmission. The utility model mainly adopts an air pipe to respectively connect with an air storage cylinder and a pressure-reducing valve. The air storage cylinder is connected with a flow valve by an air pipe. The flow valve is respectively connected with control valves through the air pipe. A pushing air cylinder is respectively installed on the control valves. Toothed racks are respectively connected with the pushing air cylinder, and the toothed racks drives tooth gears for transmission. The structure of the utility model is simple, compact, and reasonable, the cost is lower, and the air charging can be carried out at the place with an air compressor or a household power supply. The pneumatic power device for a bicycle has the advantages of convenient operation, stable running, non-noisy, non-environment pollution, convenient and rapid supplying and compressing the air, long service life, stepless speed regulation, and strong safety and reliability, and the pneumatic power device for a bicycle is provided with an overload protection device. The pneumatic power device for a bicycle provides a new generation walking-substituting tool for people outing.

Classifications:

International (IPC 8-9): B62M19/00 (Advanced/Invention);
B62M19/00 (Core/Invention)

International (IPC 1-7): B62M19/00

CPC: B62M2007/005



Family:

Publication number	Publication date	Application number	Application date
■ CN2723334 Y	20050907	CN200420026103U	20040407

Priority:

CN200420026103U 20040407

Probable Assignee:

ZHOU GUOPING

Assignee(s): (std):

ZHOU GUOPING

Inventor(s): (std):

ZHOU GUOPING

Inventor(s):

GUOPING ZHOU

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN2723334 Y	20050907	LSGT	+	granted / extensions (spc, cpc, pte)	
CN2723334 Y	20050907	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN2723334 Y	20090603	LSLE	-C19	LAPSE OF PATENT RIGHT DUE TO NON-PAYMENT OF THE ANNUAL FEE	
CN2723334 Y	20140407	PEXP		Calculated Patent Term Expiry	

Title: **Vehicle for the disabled**

Abstract: The wheel chair is provided with ratchet wheel on the wheel, ratchet handle on the frame, and ratchet sleeve, ratchet spring and ratchet in the handle. The ratchet wheel handle fulcrum and the ratchet wheel center are not in the same axis, and ratchet wheel handle radius is greater than the ratchet wheel radius, so that when the ratchet moves within certain angle range, the ratchet wheel will be dialed to rotate, and when the ratchet moves beyond certain angle range, the ratchet will detach from the ratchet wheel and the ratchet wheel will rotate by inertia. Pushing and pulling the ratchet wheel handle repeatedly can make the wheel chair move forwards.

Classifications:

International (IPC 8-9): A61G5/02 A61G5/10 B62M1/24 (Advanced/Invention);

A61G5/00 (Core/Invention)

International (IPC 1-7): A61G5/02 A61G5/10 B62M1/04

Family:

Publication number	Publication date	Application number	Application date
 CN1621018 A	20050601	CN200410103478	20041230
 CN1621305 A	20050601	CN200410103479	20041230

Priority:

CN200410103478 20041230 CN200410103479 20041230

Probable Assignee:

ZHANG YINXIU

Assignee(s): (std):

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Inventor(s): (std):

ZHANG YINXIU

Inventor(s):

YINXIU ZHANG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN1621018 A	20050601	LSPB	+	published / reissued	
CN1621018 A	20050601	LSPB	+C06	PUBLICATION	
CN1621018 A	20080903	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	
CN1621305 A	20050601	LSPB	+	published / reissued	
CN1621305 A	20050601	LSPB	+C06	PUBLICATION	
CN1621305 A	20071017	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	

Title: VEHICULO PARA DESPLAZAMIENTO DE PERSONAS CON MOVILIDAD REDUCIDA MOVING VEHICLE FOR PEOPLE WITH REDUCED MOBILITY (Machine translation)

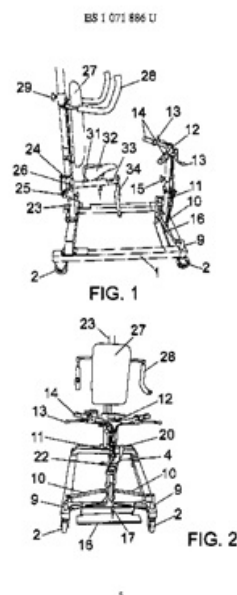
Abstract: Source: ES1071886U [ES] 1. Vehículo para desplazamiento de personas con movilidad reducida, caracterizado porque esta constituido a partir de un bastidor rodante, de configuracion preferentemente rectangular, a base de perfiles metalicos, bastidor del que emerge posteriormente una columna vertical, en la que se define una cremallera o mecanismo equivalente, sobre la que es desplazable verticalmente, con el concurso de la correspondiente manivela, un conjunto sillin-respaldo, para apoyo del paciente, presentando dicho respaldo una pareja de brazos regulables sobre los que apoyar los brazos, concretamente a la altura de las axilas, mientras que el sillin incorpora medios de regulacion posicional para el mismo, con la particularidad de que el bastidor incorpora en su zona anterior un manillar, asociado a un eje de direccion a traves del que se dirigen las ruedas directrices o delanteras del bastidor, habiendose previsto que al menos dos de las ruedas que participan en el vehiculo incorporen medios de frenado para las mismas, materializados en zapatas accionables a traves de manetas de freno establecidas en el manillar, asi como a traves de un ancho pedal asociado al bastidor. 2. Vehículo para desplazamiento de personas con movilidad reducida, segun reivindicacion 1ª, caracterizado porque el cable de accionamiento de las zapatas de freno esta asociado a un disco giratorio con respecto del eje de direccion, disco al que estan igualmente asociados los cables provenientes de ambas manetas de freno, asi como del pedal de freno, habiendose previsto la inclusion de un freno de mano dotado de medios de bloqueo, que actua sobre dicho conjunto. 3. Vehículo para desplazamiento de personas con movilidad reducida, segun reivindicacion 1ª, caracterizado porque el sillin se dispone sobre un brazo horizontal desplazable angularmente sobre la columna, que complementa con un soporte para retencion del paciente a traves de la pelvis, materializado en un brazo basculante y bloqueable en disposicion vertical con respecto al sillin. 4. Vehículo para desplazamiento de personas con movilidad reducida, segun reivindicacion 1ª, caracterizado porque el eje de direccion del manillar incorpora medios de regulacion en altura para el mismo.

Machine translation: 1. Vehicle for moving persons with reduced mobility, characterized in that is constituted from a trolley frame, preferably rectangular configuration, a basis of metallic profiles, frame which subsequently emerges a vertical column, which defines a zipper or equivalent mechanism, on which is movable vertically, with the help of the corresponding crank, a set-back saddle to support the patient, showing a pair of such support on adjustable arms that support the arms, namely the armpit, while the saddle incorporates positional adjustment means for the same, with the peculiarity that the frame incorporates in its anterior handlebars, associated with an axis direction through the target to the front steering wheels or frame, having been provided that at least two of the wheels involved in the vehicle braking means for incorporating the same, embodied in pads operable brake levers through established on the handlebar, as well as through an associated pedal frame width. 2. Vehicle for moving persons with reduced mobility, according to claim 1, wherein the drive cable of the brake shoes is associated with a rotating disk with the axis of direction, disk that are also associated cables from both levers brake, as well as the brake pedal, having been provided for the inclusion of a brake provided with locking means which acts on said assembly. 3. Vehicle for moving persons with reduced mobility, according to claim 1, wherein the saddle is placed on a horizontal arm movable angularly about the column, supplementing with a support for retaining the patient through the pelvis, materialized in a swing arm and lockable in vertical disposition with respect to the saddle. 4. Moving **vehicle for the disabled**, according to claim 1, wherein the direction of the handle shaft includes height adjustment means for the same.

Classifications:

International (IPC 8-9): A61G5/14 (Advanced/Invention);
A61G5/00 (Core/Invention)

PatBase - ES1071886_UA



Family:

Publication number	Publication date	Application number	Application date
ES1071886 UA	20100422	ES20100000062U	20100122
ES1071886 Y1	20100719	ES20100000062U	20100122

Priority:

ES20100000062U 20100122

Probable Assignee:

TORRES ROLDAN EDUARDO

Assignee(s): (std):

TORRES ROLDAN EDUARDO

Inventor(s): (std):

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Legal status (INPADOC)[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
ES1071886 UA	20100422	LSPB	+	published / reissued	
ES1071886 Y1	20100719	LSGT	+	granted / extensions (spc, cpc, pte)	
ES1071886 Y1	20100719	LSGT	+FG1K	UTILITY MODEL GRANTED	
ES1071886 Y1	20200122	PEXP		Calculated Patent Term Expiry	

Title: DISABILITIES VEHICLE WITH SLIDING LIFT

Abstract: PURPOSE: A **vehicle for the disabled** is provided, which enables a disabled person sitting on a wheelchair to ride the wheelchair safely using a sliding lift. CONSTITUTION: A **vehicle for the disabled** comprises: a fixing unit fixed to the inside floor of a vehicle; a platform(130) reciprocating on the upper side of the fixing unit and surface through the opened door of the vehicle; a first driving part which drives the platform to slide; a link module(140) which is rotationally installs to the fixing unit and is capable of movement to the inside and outside of the vehicle by lifting the connected platform; and a second driver part running the link module.

Classifications:

International (IPC 8-9): A61G3/00 B60P3/00 (Advanced/Invention);

A61G3/00 B60P3/00 (Core/Invention)

CPC: A61G3/061 A61G3/067

Family:

Publication number	Publication date	Application number	Application date
KR100968741 B1	20100708	KR20090111804	20091119

Priority:

KR20090111804 20091119

Probable Assignee: AUTO TECH CORP

Assignee(s): (std): AUTO TECH CORP

Inventor(s): (std): KANG SEONG HEE

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Patent	Date recorded	Event group	Code	Event	Details
KR100968741 B1	20100708	LSGT	+	granted / extensions (spc, cpc, pte)	
KR100968741 B1	20091119	LSSES	A201	REQUEST FOR EXAMINATION	
KR100968741 B1	20091223	LSSES	A302	REQUEST FOR ACCELERATED EXAMINATION	
KR100968741 B1	20100312	LSSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR100968741 B1	20100618	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR100968741 B1	20100701	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR100968741 B1	20130628	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20130701 YEAR OF FEE PAYMENT : 4
KR100968741 B1	20140626	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20140627 YEAR OF FEE PAYMENT : 5
KR100968741 B1	20160620	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20160621 YEAR OF FEE PAYMENT : 7
KR100968741 B1	20170626	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20170627 YEAR OF FEE PAYMENT : 8
KR100968741 B1	20291119	PEXP		Calculated Patent Term Expiry	

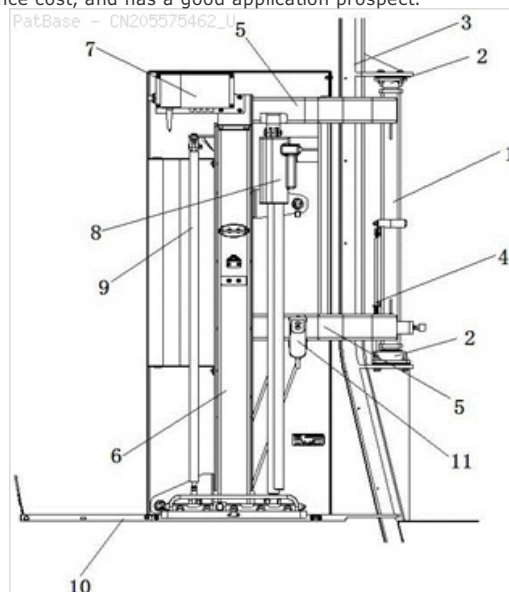
Title: A DISABLED PERSON'S CAR ELEVATING SYSTEM FOR RAIL TRANSIT TRAIN

Abstract: The utility model discloses a disabled person's car elevating system for rail transit train, which is composed of a drive device, guider, buffer, bear the mechanism, the platform subassembly, positioner, constitutions such as controlling means, adopt the electronic linear actuator who takes the auto -lock as drive arrangement, make and rise, even the outage of decline in - process also can keep hovering under the load operating mode, and adopt tension type air spring as buffer, a cushion to drive arrangement shares partly lifting force for going up and down the process, prevent falling of under drive arrangement inefficacy condition platform, compare hydraulic drive type disabled person car elevating system, and is high in safety, moreover, the steam generator is simple in structure, occupy small, and low maintenance cost, and has a good application prospect.

Classifications:

International (IPC 8-9): B66F7/06 B66F7/28 (Advanced/Invention)

CPC: B66F7/06 B66F7/28



Family:

Publication number	Publication date	Application number	Application date
■ CN105776062 A	20160720	CN201610308502	20160511
■ CN205575462 U	20160914	CN201620423846U	20160511

Priority:

CN201610308502 20160511 CN201620423846U 20160511

Probable Assignee: NANJING KANGNI MECHANICAL AND ELECTRICAL CO LTD

Assignee(s): (std): NANJING KANGNI MECH AND ELECTRICAL CO LTD ; NANJING KANGNI MECHANICAL AND ELECTRICAL CO LTD

Assignee(s): NANJING KANGNI MECHANICAL AND ELECTRICAL CO

Inventor(s): (std): LI DONG ; LIU LUOMING ; LIU XIN ; PAN DAOZHEN ; WANG HUI ; ZHANG WENZHONG ; ZHANG XULIANG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN105776062 A	20160720	LSPB	+	published / reissued	
CN105776062 A	20160720	LSPB	+C06	PUBLICATION	
CN105776062 A	20181102	LSRV	-RJ01	REJECTION OF INVENTION PATENT APPLICATION AFTER PUBLICATION	
CN205575462 U	20160914	LSGT	+	granted / extensions (spc, cpc, pte)	
CN205575462 U	20160914	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN205575462 U	20260511	PEXP		Calculated Patent Term Expiry	

Title: Driving system for vehicle for disableman

Abstract: The utility model relates to a drive operating device of a motor **vehicle for the disabled**. The device is provided with a support plate which is arranged on a fixed sleeve of a steering wheel, and the position of the support plate is adjustable on the fixed sleeve of a steering wheel. The upper end of the support plate is pivoted with an operating shaft having a grip. The operating shaft is provided with a return spring and two bending handles elongate along the opposite direction of the radical direction of the operating shaft. An accelerator and a brake-operating rod are respectively composed of a regulating sleeve, a regulating rod, a piston rod and a piston sleeve. The regulating rod is screwed with the regulating sleeve and the piston rod. The piston is positioned in the piston sleeve in sliding mode. The other end of the regulating sleeve is pivoted with the operating bending handles. The bottom of the piston sleeve is pivoted with a pedal frame sleeve which is sheathed on the accelerator or a brake pedal.

Classifications:

International (IPC 8-9): B60K26/00 (Advanced/Invention);
B60K26/00 (Core/Invention)

International (IPC 1-7): B60K26/00

Family:

Publication number	Publication date	Application number	Application date
 CN2202062 Y	19950628	CN19942020052U	19940825

Priority:

CN19942020052U 19940825

Probable Assignee: AHMED A
Assignee(s): (std): AHMED A
Assignee(s): A AHMED
Inventor(s): (std): A AHMED ; AHMED A

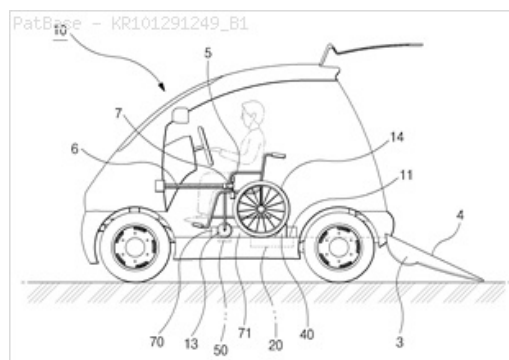
Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN2202062 Y	19950628	LSGT	+	granted / extensions (spc, cpc, pte)	
CN2202062 Y	19950628	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN2202062 Y	19981014	LSLE	-C19	LAPSE OF PATENT RIGHT DUE TO NON-PAYMENT OF THE ANNUAL FEE	
CN2202062 Y	20040825	PEXP		Calculated Patent Term Expiry	

Title: DISABLED WHEELCHAIR SECURING DEVICES FOR ELECTRIC VEHICLES

Abstract: PURPOSE: A wheelchair fixing device of electric **vehicle for the disabled** is provided to guide a disabled person to move to the exact position of driver's seat in case the disabled person gets on the electric vehicle riding the wheelchair, and to prevent the movement of the wheelchair by automatically fixing the wheel site when the disabled person move to the driver's seat. CONSTITUTION: A wheelchair fixing device fixes a wheelchair located in the driver's seat of the electric vehicle for disabled in order not to move. The wheelchair fixing device of electric **vehicle for the disabled** comprises: a casing (20) installed in the bottom (11) on the moving route of the wheelchair; a sensor material (50) arranged inside the casing for sensing whether the wheelchair enters or not; a driving tool which is arranged inside the casing and connected to the casing by circuit connection in order to operate by sensing of the sensor material; and a stopper (40) which is protruded over the bottom by the driving tool, and supports the rear of the wheelchair wheel (14).

Classifications:**International (IPC 8-9):** A61G3/00 B60L11/18 (Advanced/Invention)**CPC:** A61G3/0808 A61G3/061 A61G2220/145**Family:**

Publication number	Publication date	Application number	Application date
 KR101291249 B1	20130730	KR20120030537	20120326

Priority:

KR20120030537 20120326

Probable Assignee:

DUCKWONENT CO LTD

Assignee(s): (std):

DUCKWONENT CO LTD

Assignee(s):

DUCKWONENT CO

Inventor(s): (std):

JUNG JIN HONG

Legal status (INPADOC)[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
KR101291249 B1	20130730	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101291249 B1	20120326	LSES	A201	REQUEST FOR EXAMINATION	
KR101291249 B1	20130621	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR101291249 B1	20130724	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR101291249 B1	20160824	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20160824 YEAR OF FEE PAYMENT : 4
KR101291249 B1	20170725	LSLE	-LAPS	LAPSE DUE TO UNPAID ANNUAL FEE	
KR101291249 B1	20320326	PEXP		Calculated Patent Term Expiry	

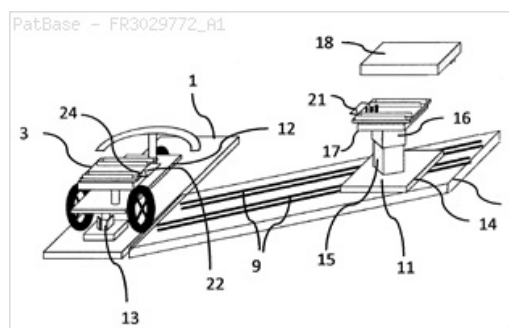
Title: DISPOSITIF DE DISTRIBUTION DE VEHICULES INDIVIDUELS, TELS QUE FAUTEUILS ROULANTS OU SCOOTERS POUR AUTOMOBILISTES HANDICAPES MOTEURS ET SON PROCEDE D'UTILISATION DELIVERY DEVICE SINGLE VEHICLES SUCH AS WHEELCHAIR OR SCOOTER FOR DISABLED DRIVERS DRIVERS AND METHOD OF USE (Machine translation)

Abstract: Source: FR3029772A [FR] Le dispositif comporte une caisse, local ou emplacement contenant un vehicule individuel (12) et un strapontin (11), des emplacements respectifs de transfert, dans lesquels le vehicule individuel (12) et le strapontin (11) se trouvent l'un a cote de l'autre et a proximite immediate, ledit strapontin mobile (11) pouvant etre guide entre une position avancee pres du siege de l'automobile et son emplacement de transfert, une assise (18) destinee a supporter l'utilisateur et guidee entre ledit strapontin (11) et ledit vehicule individuel (12), et des moyens complementaires de butee et de centrage (21, 23; 22, 24) presentes par le strapontin (11) et le vehicule (12), et cooperant entre eux lorsque le strapontin est deplace verticalement, pour assurer l'arret du mouvement vertical et l'alignement des moyens de guidage d'assise (19, 20) portes respectivement par le strapontin et le fauteuil. **Machine translation:** The device includes a case, local or location containing an individual vehicle (12) and a folding seat (11), the respective locations of transfer, in which the individual vehicle (12) and the folding seat (11) are the one next to the other and immediate vicinity, said movable folding seat (11) can be guided between an advanced position near the seat of the automobile and its transfer position, a seat (18) destiny to bear the user and guided between said folding seat (11) and said individual vehicle (12), and complementary means of butee and centering (21, 23; 22, 24) presented by the jump seat (11) and the vehicle (12) and cooperating between them when the seat is moved vertically, to ensure the cessation of the vertical movement and alignment means of guiding seat (19, 20) respectively doors by the jump seat and the chair.

Classifications:

International (IPC 8-9): A61G3/02 (Advanced/Invention)

CPC: A61G3/063 A61G3/0808 A61G7/1025



Family:

Publication number	Publication date	Application number	Application date
FR3029772 A1	20160617	FR20140002852	20141215

Priority:

FR20140002852 20141215

Probable Assignee:

BERTRAND CLAUDE

Assignee(s): (std):

BERTRAND CLAUDE

Assignee(s):

CLAUDE BERTRAND

Inventor(s): (std):

BERTRAND CLAUDE

Inventor(s):

CLAUDE BERTRAND

Agent(s):

CLAUDE BERTRAND

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
FR3029772 A1	20160617	LSPB	+	published / reissued	
FR3029772 A1	20151218	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 2
FR3029772 A1	20160617	LSES	PLSC	SEARCH REPORT READY	EFFECTIVE DATE : 20160617
FR3029772 A1	20161205	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 3

Title: Varying-speed chassis on battery tricycle

Abstract: The utility model relates to a transmission device of a battery tricycle, a battery **vehicle for the disabled**, a small electro-tricycle for city tourism, and an electro-tricycle for tour view spot tourism of which power is supplied by batteries. The utility model is provided with a chassis frame, a DC motor arranged in the chassis frame, a buffering shaft coupler and a speed change box; the DC motor is connected with an input shaft of the speed change box by a buffering shaft coupler; the output shaft of the speed change box is fixedly connected with a driving hub; a shifting rock arm is arranged on the speed change box and is connected with a shifting device of a driver's position at the front side of the vehicle body by a shifting connecting rod. The utility model has the advantages of reasonable design and simple structure; the utility model directly replaces the rear shaft structure of the original battery vehicle so that the vehicle has enough torque in heavy load and upslope; the utility model enhances safety performance of the vehicles.

Classifications:

International (IPC 8-9): B60K1/00 B60K17/06 (Advanced/Invention);
B60K1/00 B60K17/06 (Core/Invention)

International (IPC 1-7): B60K1/00 B60K17/06

Family:

Publication number	Publication date	Application number	Application date
 CN2578144 Y	20031008	CN20022058303U	20021104

Priority:

CN20022058303U 20021104

Probable Assignee:

CHEN GUOLIANG

Assignee(s): (std):

CHEN GUOLIANG

Inventor(s): (std):

CHEN GUOLIANG

Inventor(s):

GUOLIANG CHEN

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
CN2578144 Y	20031008	LSGT	+	granted / extensions (spc, cpc, pte)	
CN2578144 Y	20031008	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN2578144 Y	20061227	LSLE	-C19	LAPSE OF PATENT RIGHT DUE TO NON-PAYMENT OF THE ANNUAL FEE	
CN2578144 Y	20121104	PEXP		Calculated Patent Term Expiry	

Title: VEHICLE HAVING REMOVABLE DRIVE ASSEMBLY

Abstract: An electrically propelled vehicle such as a wheelchair including a frame; a drive assembly including an electric motor and at least one ground engaging wheel; interengaging formations associated with the drive assembly and frame and providing a releasable connection therebetween; and catch means for holding said formations in engagement with one another, there being releasable electrical connector means for establishing an electrical connection to the motor of the drive assembly; wherein the catch means permits the electrical connection to be established by the electrical connector means only when the catch means is in a retaining position.

Classifications:**International (IPC 8-9):** A61G5/04 B60K17/04 B60K7/00

B60L3/00 (Advanced/Invention);

B60K17/04 B60K7/00 (Advanced/Non-invention)

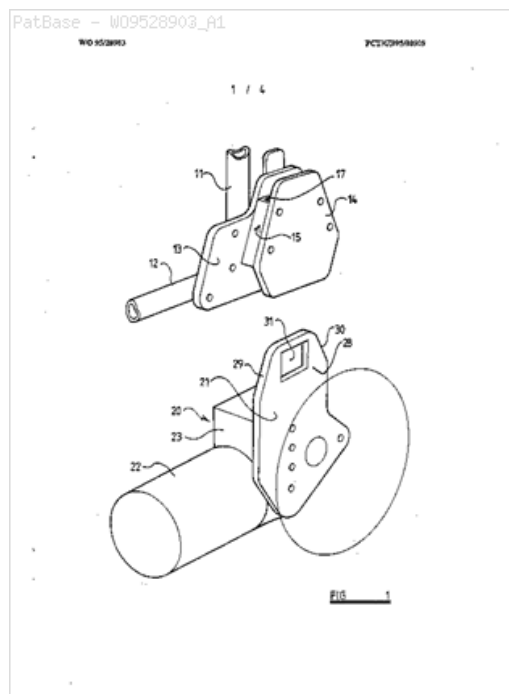
International (IPC 1-7): A61G5/04 B60K7/00 B60L3/00**CPC:** A61G5/04 B60K7/0007 B60K17/043 B60K2007/0038

B60K2007/0076 B60L3/00 B60L2220/44 B60L2220/46 B60Y2200/84

B60K2007/0046

European: A61G5/04 B60K7/00E B60L3/00 L60K17/04B L60K7/00E

L60K7/00R L60K7/00S L60K7/00V2 L60L220/44 L60L220/46 L60Y200/84

**Family:**

Publication number	Publication date	Application number	Application date
AU199522639 A1	19951116	AU19950022639	19950421
AU701841 B2	19990204	AU19950022639	19950421
DE69512168 D1	19991021	DE19956012168	19950421
DE69512168 T2	19991230	DE19956012168T	19950421
DK0705090 T3	20000320	DK19950915949T	19950421
EP0705090 A1	19960410	EP19950915949	19950421
EP0705090 B1	19990915	EP19950915949	19950421
ES2139200 T3	20000201	ES19950915949T	19950421
FI104617 B	20000315	FI19950006187	19951221
FI956187 A	19951221	FI19950006187	19951221
FI956187 A0	19951221	FI19950006187	19951221
GB2293803 A1	19960410	GB19950024619	19950421
GB2293803 B2	19980128	GB19950024619	19950421
GB9408005 A0	19940615	GB19940008005	19940422
GB9524619 A0	19960221	GB19950024619	19950421
NO306375 B1	19991101	NO19950005073	19951214
NO955073 A	19951214	NO19950005073	19951214
NO955073 A0	19951214	NO19950005073	19951214
NZ284129 A	19971219	NZ19950284129	19950421
WO9528903 A1	19951102	WO1995GB00909	19950421

Priority:

GB19940008005 19940422 GB19950024619 19950421 WO1995GB00909 19950421

Probable Assignee: SUNRISE MEDICAL LIMITED**Assignee(s):** (std): SUNRISE MEDICAL LTD**Assignee(s):** SUNRISE MEDICAL LTD WOLLASTON ; SUNRISE MEDICAL LIMITED**Inventor(s):** (std): VERNON VIRGO BRIAN ; VIRGO BRIAN VERNON ; VIRGO BRIAN**Inventor(s):** BRIAN VERNON VIRGO**Agent(s):** GRIFFITH HACK**Designated states:** AT AU BE CH DE DK ES FI FR GB GR IE IT LU MC NL NO NZ PT SE**Legal status (INPADOC)**

Patent	Date recorded	Event group	Code	Event	Details
AU199522639 A1	19951116	LSPB	+	published / reissued	
AU701841 B2	19990204	LSGT	+	granted / extensions (spc, cpc, pte)	
AU701841 B2	20000203	LSAS	PC	ASSIGNMENT REGISTERED	TEXT : SUNRISE MEDICAL LIMITED
AU701841 B2	20150421	PEXP		Calculated Patent Term Expiry	
DE69512168 D1	20001005	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE69512168 D1	20050217	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE69512168 T2	19991230	LSGT	+	granted / extensions (spc, cpc, pte)	
DE69512168 T2	20150421	PEXP		Calculated Patent Term Expiry	
DK0705090 T3	20000320	LSGT	+	granted / extensions (spc, cpc, pte)	
DK0705090 T3	20150421	PEXP		Calculated Patent Term Expiry	
EP0705090 A1	19960410	LSPB	+	published / reissued	
EP0705090 A1	19960410	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19951204
EP0705090 A1	19970521	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19970408
EP0705090 A1	19990811	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : SUNRISE MEDICAL LIMITED
EP0705090 B1	19990915	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0705090 B1	20000201	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2139200 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) :
EP0705090 B1	20000830	LSGT	+26N	NO OPPOSITION FILED	
EP0705090 B1	20030403	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20030403 YEAR OF FEE PAYMENT : 9
EP0705090 B1	20030418	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20030418 YEAR OF FEE PAYMENT : 9
EP0705090 B1	20030422	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE PAYMENT DATE : 20030422 YEAR OF FEE PAYMENT : 9
EP0705090 B1	20030423	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 20030423 YEAR OF FEE PAYMENT : 9
EP0705090 B1	20030430	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20030430 YEAR OF FEE PAYMENT : 9
EP0705090 B1	20030508	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE :

					20030508 YEAR OF FEE PAYMENT : 9
EP0705090 B1	20040422	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20040422
EP0705090 B1	20040422	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20040422
EP0705090 B1	20040430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20040430
EP0705090 B1	20041101	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20041101
EP0705090 B1	20041103	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20041103
EP0705090 B1	20041130	LSLE	-EUG	SE: EUROPEAN PATENT HAS LAPSED	REF COUNTRY CODE : EP
EP0705090 B1	20041231	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20041231
EP0705090 B1	20050103	LSLE	-NLV4	NL: LAPSED OR ANULLED DUE TO NON-PAYMENT OF THE ANNUAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20041101
EP0705090 B1	20050204	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST
EP0705090 B1	20050716	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FD2A EFFECTIVE DATE : 20040422
EP0705090 B1	20150421	PEXP		Calculated Patent Term Expiry	
ES2139200 T3	20000201	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2139200 T3	20000201	LSGT	+FG2A	DEFINITIVE PROTECTION	REF DOCUMENT NUMBER : 705090 COUNTRY OF REF DOCUMENT : ES
ES2139200 T3	20150421	PEXP		Calculated Patent Term Expiry	
FI104617 B	20000315	LSPB	+	published / reissued	
FI104617 B	20041031	LSLE	-MA	PATENT EXPIRED	
FI104617 B	20151221	PEXP		Calculated Patent Term Expiry	
FI956187 A	19951221	LSPB	+	published / reissued	
GB2293803 A1	19960410	LSPB	+	published / reissued	
GB2293803 B2	19980128	LSGT	+	granted / extensions (spc, cpc, pte)	
GB2293803 B2	20150421	PEXP		Calculated Patent Term Expiry	
NO306375 B1	19991101	LSGT	+	granted / extensions (spc, cpc, pte)	

NO306375 B1	20041227	LSLE	-MM1K	LAPSED BY NOT PAYING THE ANNUAL FEES	
NO306375 B1	20151214	PEXP		Calculated Patent Term Expiry	
NO955073 A	19951214	LSPB	+	published / reissued	
NZ284129 A	19971219	LSPB	+	published / reissued	
NZ284129 A	20020426	LSFE	+RENEW	RENEWAL (RENEWAL FEES ACCEPTED)	
WO9528903 A1	19951102	LSPB	+	published / reissued	
WO9528903 A1	19951204	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1995915949 COUNTRY OF REF DOCUMENT : EP
WO9528903 A1	19951211	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 284129 COUNTRY OF REF DOCUMENT : NZ
WO9528903 A1	19951221	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 956187 COUNTRY OF REF DOCUMENT : FI
WO9528903 A1	19960410	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1995915949 COUNTRY OF REF DOCUMENT : EP
WO9528903 A1	19990915	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1995915949 COUNTRY OF REF DOCUMENT : EP
WO9528903 A1	20000315	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 956187 COUNTRY OF REF DOCUMENT : FI

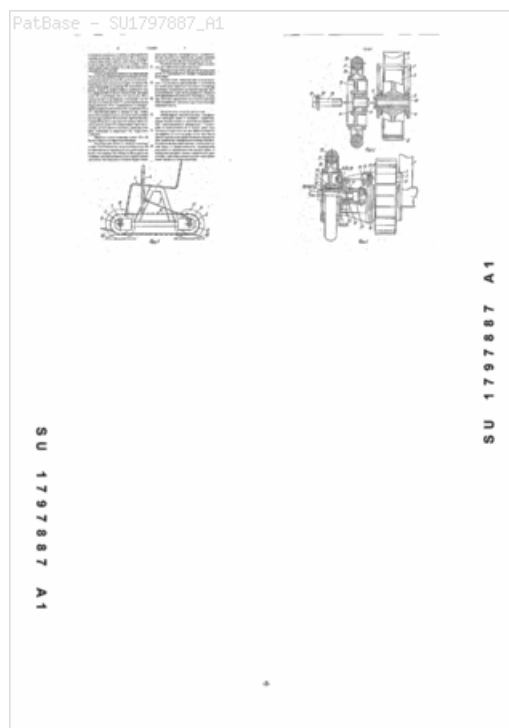
Title: INVALID CHAIR

Abstract: Source: SU1797887A **Machine translation:** Use: as a **vehicle for the disabled** when moving in the rooms, on the street, a flight of stairs. SUMMARY OF THE INVENTION: ska count comprises a frame, seat e caterpillar mover and two pairs of removable wheels, 4 yl.

Classifications:

International (IPC 8-9): A61G5/06 (Advanced/Invention);
A61G5/00 (Core/Invention)

International (IPC 1-7): A61G5/06



Family:

Publication number	Publication date	Application number	Application date
RU1797887 C	19930228	SU19904807000	19900327
SU1797887 A1	19930228	SU19904807000	19900327

Priority:

SU19904807000 19900327

Probable Assignee:

LEBEDEV ALEKSANDR D

Assignee(s): (std):

LEBEDEV ALEKSANDR D

Assignee(s):

LEBEDEV ALEKSANDR D SU

Inventor(s): (std):

LEBEDEV ALEKSANDR D

Inventor(s):

LEBEDEV ALEKSANDR D SU

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
RU1797887 C	19930228	LSGT	+	granted / extensions (spc, cpc, pte)	
RU1797887 C	20100327	PEXP		Calculated Patent Term Expiry	
SU1797887 A1	19930228	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: VEICULO TRANSPORTADOR EM ESCADAS ROLANTES VEHICLE CARRIER ON ESCALATORS (Machine translation)

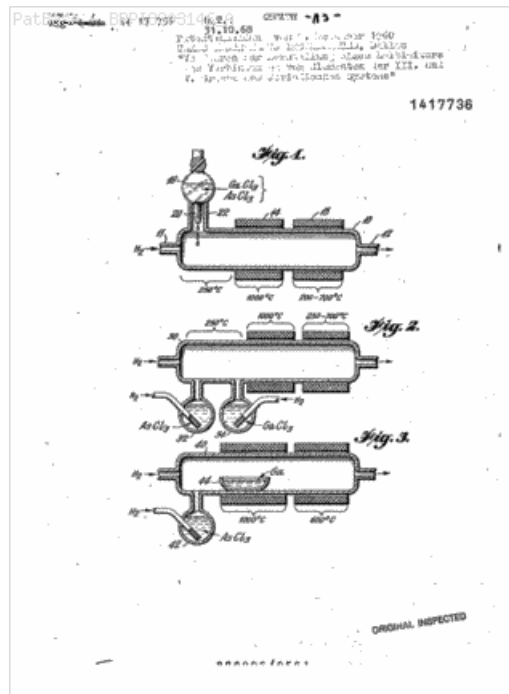
Abstract: Source: BRPI8803146A [PT] [Source: Claim 1] 1.REIVINDICACOES "VEICULO TRANSPORTADOR EM ESCADAS ROLANTES", caracterizado por manter sempre na posicao horizontal a sua gondola de transporte, independentemente da posicao do veiculo, seja em terreno plano ou nao, o que permite o transporte seguro um deficiente em sua cadeira de rodas, de um deficiente sentado ou mesmo de volumes, utilizando-se de escadas rolantes ou mesmo esteiras rolantes enclnadas. **Machine translation:** [Source: Claim 1] 1. CLAIMS "VEHICLE CARRIER ON ESCALATORS", characterized by man-always in horizontal position your gondola transports, regardless what the position of the vehicle, is in flat terrain or not, allowing safe transportation a deficient in his wheelchair, a sitting or even deficient volumes, using escalators or even crawlers enclnadas.

Classifications:

International (IPC 8-9): A61G5/00 (Advanced/Invention);

A61G5/00 (Core/Invention)

International (IPC 1-7): A61G5/00



Family:

Publication number	Publication date	Application number	Application date
BRPI8803146 A	19900206	BR1988PI03146	19880627

Priority:

BR1988PI03146 19880627

Probable Assignee:

CLAUDIO ROBERTO KIRSTEN

Assignee(s): (std):

CLAUDIO ROBERTO KIRSTEN

Inventor(s): (std):

KIRSTEN CLAUDIO ROBERTO

Inventor(s):

CLAUDIO ROBERTO KIRSTEN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
BRPI8803146 A	19900206	LSPB	+	published / reissued	

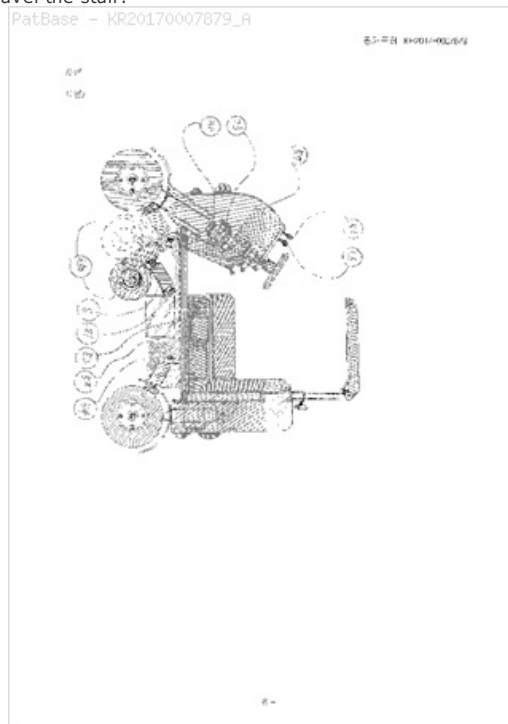
Title: STAIR TRAVELING VEHICLE

Abstract: The present invention relates to a vehicle of the disabled. More specifically, a wheel gets larger by a force of a hydraulic cylinder to be operated without in discomfort when the disabled travels a stair while riding on the vehicle and the vehicle travels up or down the stair, so that the **vehicle for the disabled** can travel the stair.

Classifications:

International (IPC 8-9): A61G5/04 A61G5/06 (Advanced/Invention)

CPC: A61G5/061 A61G5/041 A61G5/046



Family:

Publication number	Publication date	Application number	Application date
■ KR20170007879 A	20170123	KR20150098837	20150713

Priority:

KR20150098837 20150713

Probable Assignee:

JO SEUNG JE

Assignee(s): (std):

JO SEUNG JE

Assignee(s):

JOSEUNGJE

Inventor(s): (std):

JO SEUNG JE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
KR20170007879 A	20170123	LSPB	+	published / reissued	

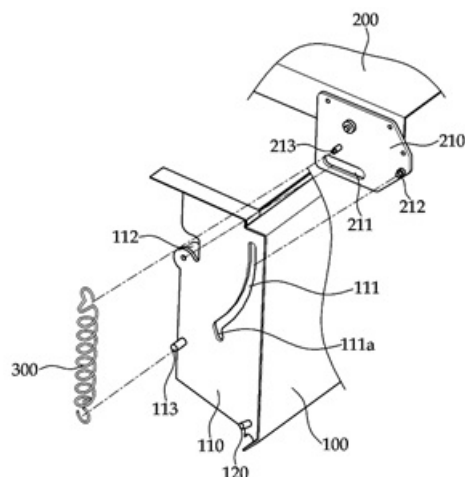
Title: VEHICLE FOR DISABLED PERSON

Abstract: The purpose of the present invention is to provide a welfare **vehicle for the disabled**, wherein a support plate placed upright to be in a line with a door of a welfare vehicle at regular times is rotated and used as required, and can be folded one more time to adhere to a floor panel. As such, the support plate adheres to a floor panel when no wheelchairs are loaded on the welfare vehicle to allow easy access for users and easy and rapid loading of objects; thus making better use of an internal space of the welfare vehicle. Another purpose of the present invention is to provide a welfare **vehicle for the disabled**, wherein each roller moves along a slot and an arc-shaped guide to fold the support plate, and to make the support plate adhere to the floor panel; thus simplifying a structure and facilitating a production and use. Additionally, the welfare **vehicle for the disabled** makes better use of space by allowing the support plate for supporting a wheelchair to be folded regardless of the type of the welfare vehicle using a slope method or a lift method, thus being applicable to a vehicle using the support plate regardless of the type of the welfare vehicle.

Classifications:

International (IPC 8-9): B60P1/04 B60P3/06 (Advanced/Invention)

PatBase - KR20150139098_A



Family:

Publication number	Publication date	Application number	Application date
KR101578645 B1	20151218	KR20140066929	20140602
KR20150139098 A	20151211	KR20140066929	20140602

Priority:

KR20140066929 20140602

Probable Assignee:

EASYMOVE

Assignee(s): (std):

EASYMOVE

Assignee(s):

EASY MOVE CO LTD

Inventor(s): (std):

KIM KEUN WOO

Legal status (INPADOC)

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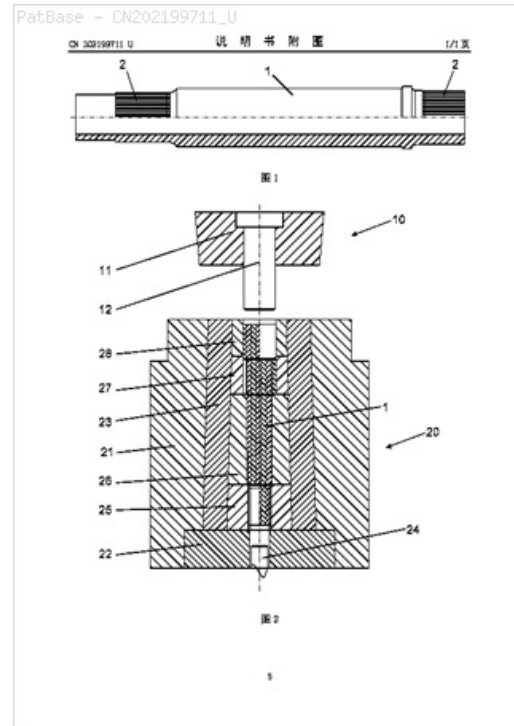
Patent	Date recorded	Event group	Code	Event	Details
KR101578645 B1	20151218	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101578645 B1	20180927	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20180927 YEAR OF FEE PAYMENT : 4
KR101578645 B1	20340602	PEXP		Calculated Patent Term Expiry	
KR20150139098 A	20151211	LSPB	+	published / reissued	
KR20150139098 A	20151212	LSGT	+GRNT	WRITTEN DECISION TO GRANT	

Title: Cold forging die for transmission rotating sleeve of special vehicle for disabled

Abstract: The utility model discloses a cold forging die for a transmission rotating sleeve of a special **vehicle for the disabled**. The cold forging die is longitudinally arranged and comprises an upper die and a lower die matched with the upper die, the upper die comprises an ejector rod seat and an upper ejector rod, the lower die comprises a female die holder, an ejector block, a female die component and a female die middle sleeve, and a lower ejector rod is arranged in the ejector block. The longitudinal cold forging die is used for one-step longitudinal extrusion hollowing and two-end spline forming for blanks, so that tooth profiles meet the requirements of designed continuous shapes and precision. Moreover, by the aid of the die with the structure and a die set with four guide posts, straightness is ensured effectively, and the defects of torsion, bending and the like caused by squeezing are avoided.

Classifications:

International (IPC 8-9): B21J13/02 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
■ CN202199711 U	20120425	CN201120289944U	20110810

Priority:

CN201120289944U 20110810

Probable Assignee: SHANGHAI DONGFU COLD FORGING MFG CO LTD

Assignee(s): (std): SHANGHAI DONGFU COLD FORGING MANUFACTURE CO LTD ; SHANGHAI DONGFU COLD FORGING MFG CO LTD

Assignee(s): SHANGHAI DONGFU COLD FORGING MANUFACTURING CO

Inventor(s): (std): ZEHUAN LIAO ; SHISHAO LIAO

Inventor(s): LIAO ZEHUAN ; LIAO SHISHAO

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN202199711 U	20120425	LSGT	+	granted / extensions (spc, cpc, pte)	
CN202199711 U	20120425	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN202199711 U	20210810	PEXP		Calculated Patent Term Expiry	

Title: PERSONAL MOBILITY VEHICLE.

Abstract: A personal mobility vehicle (1) for the disabled such as a scooter which has an electric drive unit (30) separable from the main chassis of the vehicle. Mechanical coupling between these two units includes a pivotal hook means (60) which engages with a horizontal pin (38) on the other unit and nested housings (37, 57) on each unit which interengage on rotation of one unit relative to the other through an arc about the hook and pin means. An electrical connector (150, 152) is integrated with the mechanical coupling. The drive unit includes a current limiting motor (211) control circuit which monitors the ON voltage across the main switching devices (210) and reduces the duty cycle of the drive signal (218) provided to the devices (210) upon a threshold voltage being exceeded. Secondary protection is provided by sensing the temperature of the devices (210) and adjusting the threshold voltage downward as the temperature rises.

Classifications:

International (IPC 8-9): A61G5/04 B62K15/00

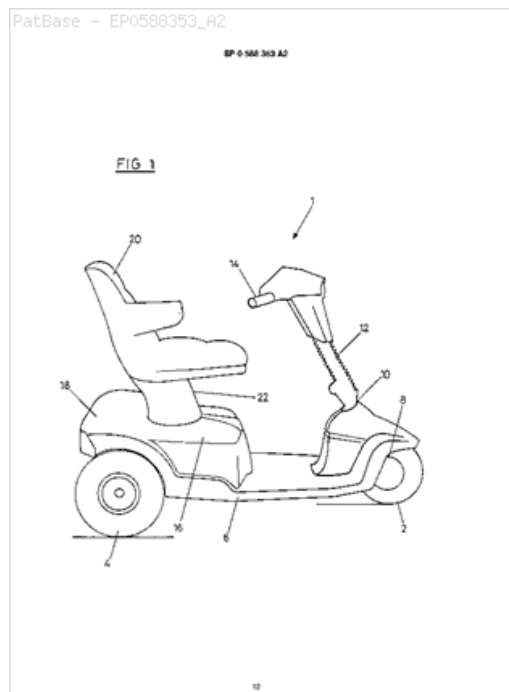
B62K5/025 (Advanced/Invention);

A61G5/00 B62K15/00 (Core/Invention)

International (IPC 1-7): A61G5/04 B60K1/00 B60K23/00 B60K31/00
B60L15/20 B62D63/02 B62K15/00 B62K5/04 G05F1/56

CPC: B62K5/025 B62K15/00 Y02T10/7258

European: B62K15/00 B62K5/025 Y02T10/72D



Family:

Publication number	Publication date	Application number	Application date
AU199347434 A1	19940324	AU19930047434	19930917
EP0588353 A2	19940323	EP19930114953	19930916
EP0588353 A3	19940504	EP19930114953	19930916

Priority:

NZ19920244369 19920917 NZ19924436992 19920917

Probable Assignee: FISHER AND PAYKEL

Assignee(s): (std): FISHER AND PAYKEL

Assignee(s): FISHER AND PAYKEL LIMITED ; FISHER AND PAYKEL LTD

Inventor(s): (std): ZWAAN PAUL FRANCIS ; NICHOLSON MICHAEL ROBERT

Inventor(s): MICHAEL ROBERT NICHOLSON ; PAUL FRANCIS ZWAAN

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD

Designated states: DE FR GB NL

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU199347434 A1	19940324	LSPB	+	published / reissued	
EP0588353 A2	19940323	LSPB	+	published / reissued	
EP0588353 A3	19950719	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 19941105

Title: STEERING AND CONTROL SYSTEM FOR A **VEHICLE FOR THE DISABLED**

Abstract: The present invention relates to a control system comprising at least one unit for operating the steering or navigation of a mobile assistive device for disabled persons, wherein said control system is adapted to be connectable to an existing assistive device for disabled persons.

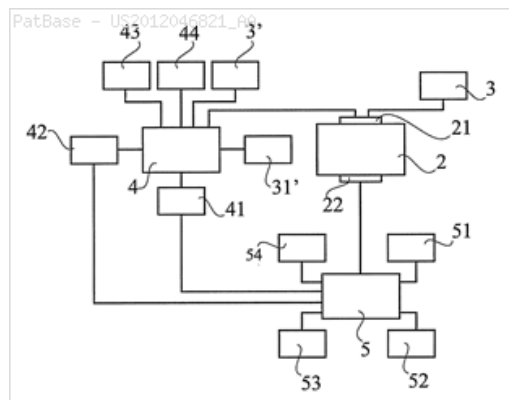
Classifications:

International (IPC 8-9): A61G5/04 A61G5/10 G01C21/00 G01C21/20 G01C22/00 G05D1/00 G06K9/00 G06K9/46 (Advanced/Invention); A61G5/04 (Advanced/Non-invention)

CPC: A61G5/04 A61G5/10 A61G2203/14 A61G2203/20 G01C21/20 A61G5/1051

European: A61G5/04 A61G5/10 G01C21/20 K61G203/14 K61G203/20 K61G5/10G

US: 382/118 382/190 701/25 701/25P 701/41 701/41S



Family:

Publication number	Publication date	Application number	Application date
CA2760125 AA	20111026	CA20102760125	20100505
DE602010014663 D1	20140508	DE201060014663T	20100505
EP2427159 A1	20120314	EP20100772342	20100505
EP2427159 A4	20130508	EP20100772342	20100505
EP2427159 B1	20140326	EP20100772342	20100505
JP2012525914 T2	20121025	JP20120509766T	20100505
SE200950302 A1	20101106	SE20090050302	20090505
SE533876 C2	20110215	SE20090050302	20090505
US2012046821 AA	20120223	US20100266022	20100505
US8862307 BB	20141014	US20100266022	20100505
WO10128941 A1	20101111	WO2010SE50495	20100505

Priority:

SE20090050302 20090505 EP20100772342 20100505 WO2010SE50495 20100505

Probable Assignee: EYEGO AB

Assignee(s): (std): EYEGO AB ; PETTERSSON OLA ; SPONSELLER KAY ; WAESTLUND ERIK

Inventor(s): (std): PETTERSON OLA ; PETTERSSON OLA ; SPONSELLER KAY ; WAESTLUND ERIK

Inventor(s): ERIK WAESTLUND ; KAY SPONSELLER ; OLA PETTERSSON

Agent(s): RIDOUT AND MAYBEE LLP; JOHANSSON LARS E; JEFFREY S; MANELLI SELTER PLLC; HYNELL PATENTTJAEENST AB

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

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Patent	Date recorded	Event group	Code	Event	Details
CA2760125 AA	20111026	LSPB	+	published / reissued	
CA2760125 AA	20150226	LSSES	+EEER	EXAMINATION REQUEST	EFFECTIVE DATE : 20150213
CA2760125 AA	20160616	LSLE	-FZDE	DEAD	EFFECTIVE DATE : 20160505
EP2427159 A1	20120314	LSPB	+	published / reissued	
EP2427159 A1	20120314	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20111130
EP2427159 A1	20120523	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : EYEGO AB
EP2427159 A1	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING	COUNTRY OF REF DOCUMENT : LT NOTIFICATIONOFLAPSE : LAPSE

				STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140326
EP2427159 A1	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NO NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140626
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EP2427159 A4	20130508	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61G 5/10 20060101AFI20130402BHEP
EP2427159 A4	20130508	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : A61G 5/04 20130101ALI20130402BHEP
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EP2427159 A4	20140226	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	EFFECTIVE DATE : 20140127
EP2427159 B1	20140326	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2427159 B1	20140326	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP2427159 B1	20140331	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
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EP2427159 B1	20140508	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602010014663 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20140508

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EP2427159 B1	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140326
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EP2427159 B1	20141128	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140326
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EP2427159 B1	20141128	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140326
EP2427159 B1	20141231	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140728
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EP2427159 B1	20141231	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP2427159 B1	20150106	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602010014663 COUNTRY OF REF DOCUMENT : DE
EP2427159 B1	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE

EP2427159 B1	20150130	LSLE	-PG25	STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO] LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140531 COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140326
EP2427159 B1	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140326
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EP2427159 B1	20150225	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP2427159 B1	20150304	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20150106
EP2427159 B1	20150331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140326
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EP2427159 B1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140326
EP2427159 B1	20160331	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : MT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140326
EP2427159 B1	20160429	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SM NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140326
EP2427159 B1	20160530	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 7
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EP2427159 B1	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : HU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT; INVALID AB INITIO LAPSED DATE : 20100505
EP2427159 B1	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : TR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140326
EP2427159 B1	20170515	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 8
EP2427159 B1	20170630	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20170511 YEAR OF FEE PAYMENT : 8
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EP2427159 B1	20170731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20170515 YEAR OF FEE PAYMENT : 8
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EP2427159 B1	20180629	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : MK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140326
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OFFICE TO EPO]						
EP2427159 B1	20300505	PEXP			Calculated Patent Term Expiry	
JP2012525914 T2	20121025	LSPB	+		published / reissued	
SE200950302 A1	20101106	LSPB	+		published / reissued	
SE533876 C2	20110215	LSGT	+		granted / extensions (spc, cpc, pte)	
SE533876 C2	20290505	PEXP			Calculated Patent Term Expiry	
US2012046821 AA	20120223	LSPB	+		published / reissued	
US2012046821 AA	20120323	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : EYEGO AB, SWEDEN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:PETTERSSON, OLA; WASTLUND, ERIK; SPONSELLER, KAY; SIGNING DATES FROM 20120313 TO 20120318; REEL/FRAME:027920/0836	
US8862307 BB	20141014	LSGT	+		granted / extensions (spc, cpc, pte)	
US8862307 BB	20140924	LSGT	PAT1		Patented Case	
US8862307 BB	20180328	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4	
US8862307 BB	20310608	PEXP			Calculated Patent Term Expiry (PTA 399 days)	
WO10128941 A1	20101111	LSPB	+		published / reissued	
WO10128941 A1	20111026	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2760125 COUNTRY OF REF DOCUMENT : CA	
WO10128941 A1	20111102	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2012509766 COUNTRY OF REF DOCUMENT : JP	
WO10128941 A1	20111107	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE	
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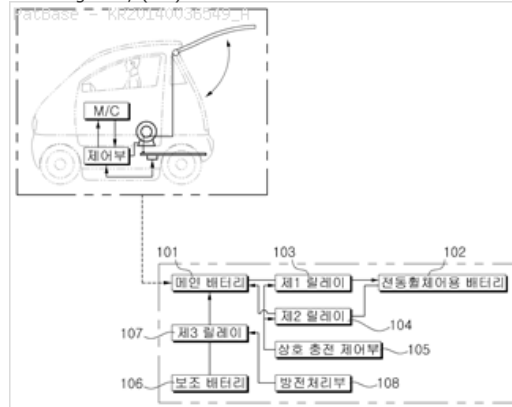
Title: APPARATUS FOR CONTROLLING TO MUTUAL CHARGE OF DISABLED ELECTRIC VEHICLE

Abstract: The present invention relates to a mutual charge control device of an electric vehicle for a disabled person between a main battery of the electric vehicle for the disabled person and a battery for an electric wheelchair which is placed inside an electric vehicle. The mutual charge control device of an electric vehicle for a disabled person is formed of; the main battery of the electric vehicle for the disabled person; a pair of first and second relays installed between the main battery of the electric vehicle for the disabled person and the battery for the electric wheelchair; and a mutual charge control unit which turns on the first relay and charges the battery for the electric wheelchair from the main battery of the electric vehicle when it is determined that the electric vehicle is driving after the driving of the electric vehicle is determined. The mutual charge control unit turns on the second relay and charges the main battery of the electric vehicle from the battery for the electric wheelchair when it is determined that the main battery of the electric vehicle is discharged less than a predetermined voltage. During the driving of the electric vehicle for the disabled person, the battery for the electric wheelchair placed in the electric vehicle is charged from the main battery of the electric vehicle. Therefore, a current is periodically supplied to the electric wheelchair. If the main battery of the electric wheelchair or an auxiliary battery of the electric vehicle for the disabled person is discharged, the main battery is charged using the battery of the electric wheelchair or an auxiliary battery of the electric vehicle for the disabled person, and then the current is supplied. [Reference numerals] (101) Main battery; (102) Battery for an electric wheelchair; (103) First relay; (104) Second relay; (105) Mutual charge control unit; (106) Auxiliary battery; (107) Third relay; (108) Discharge processing unit; (AA) Control unit

Classifications:

International (IPC 8-9): B60L11/18 H02J7/00 (Advanced/Invention)

CPC: Y02T10/7005 H02J7/14



Family:

Publication number	Publication date	Application number	Application date
KR101395774 B1	20140516	KR20120102780	20120917
KR20140036549 A	20140326	KR20120102780	20120917

Priority:

KR20120102780 20120917

Probable Assignee:

DUCKWONENT CO LTD

Assignee(s): (std):

DUCKWONENT CO LTD

Assignee(s):

DUCKWONENT CO

Inventor(s): (std):

JUNG JIN HONG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
KR101395774 B1	20140516	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101395774 B1	20120917	LSSES	A201	REQUEST FOR EXAMINATION	
KR101395774 B1	20131215	LSSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR101395774 B1	20170510	LSLE	-LAPS	LAPSE DUE TO UNPAID ANNUAL FEE	
KR101395774 B1	20320917	PEXP		Calculated Patent Term Expiry	
KR20140036549 A	20140326	LSPB	+	published / reissued	
KR20140036549 A	20140428	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR20140036549 A	20140509	LSGT	+GRNT	WRITTEN DECISION TO GRANT	

Title: **VEHICLE FOR THE DISABLED** AND VISUALLY IMPAIRED INTENDED FOR FACILITATING ORIENTATION AND SIGNALLING DANGER

Classifications:

International (IPC 8-9): A61H3/00 A61H3/04 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
PL391703 A1	20120102	PL20100391703	20100701

Priority:

PL20100391703 20100701

Probable Assignee: POLITECHNIKA POZNANSKA

Assignee(s): (std): POLITECHNIKA POZNANSKA

Inventor(s): (std): BRANOWSKI BOGDAN ; GANCLARSKI PIOTR ; GOLUCHOWSKI BLAZEJ ; HAUSA HUBERT ; JEDRZEJCZAK JAKUB ; KEPA MAREK ; KLABA KAROL ; KOTECKI KRZYSZTOF ; KRUK MARIUSZ ; NIEZGODKA MACIEJ ; PRZYBYLA PIOTR ; SZULC TOMASZ ; WOJDAK TOMASZ

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
PL391703 A1	20120102	LSPB	+	published / reissued	
PL391703 A1	20141231	LSRV	-REFS	DECISIONS ON REFUSAL TO GRANT PATENTS (TAKEN AFTER THE PUBLICATION OF THE PARTICULARS OF THE APPLICATIONS)	

Title: VEHICLE FOR THE DISABLED

Abstract: A vehicle for the disabled comprising a wheel-chair with seat and back-rest, on the chassis of which two coaxial rear wheels and at least one front wheel are mounted, a cycle frame arranged behind the wheel-chair with a drive wheel drivable by means of pedals, a saddle and coupling device, mounted pivotably on a steering bearing of the cycle frame about a substantially vertical pivot axis, for the detachable connection of the wheel-chair with the cycle frame, the coupling device having at least one cross-member extending transversely of the longitudinal axis of the cycle frame, which cross-member is securable to the wheel-chair chassis through two coupling elements spaced from one another in the transverse direction and supports the forward end of the cycle frame on the chassis of the wheel-chair, is characterized in that the steering bearing (35) carrying the coupling device is connected with the cycle frame (2) through a joint (42) with substantially horizontal pivot axis but otherwise substantially rigidly in rotation.

Classifications:

International (IPC 8-9): A61G5/00 B62K27/00 B62K3/16

B62K7/00 (Advanced/Invention);

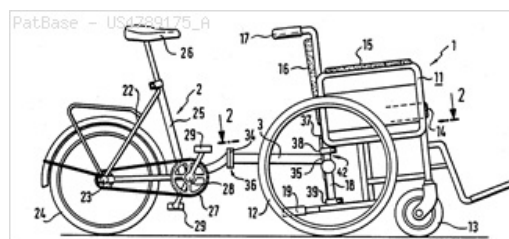
A61G5/00 B62K27/00 B62K3/00 B62K7/00 (Core/Invention)

International (IPC 1-7): A61G5/00 B60D1/04 B62K7/00 B62K7/02

CPC: A61G5/1054 B62K5/003 A61G5/003 B62K3/16 B62K7/00

European: A61G5/00B B62K27/00 B62K3/16 B62K5/003 B62K7/00 K61G5/10H

US: 280/242WC 280/282 280/289WC 280/304.1 297/DIG.4

**Family:**

Publication number	Publication date	Application number	Application date
AT76737 E	19920615	AT19870111069T	19870730
DE3625955 A1	19880211	DE19863625955	19860731
DE3630687 A1	19880317	DE19863630687	19860909
DE3779510 D1	19920709	DE19873779510	19870730
DE8710562 U1	19871210	DE19870010562U	19870731
EP0255703 A2	19880210	EP19870111069	19870730
EP0255703 A3	19890412	EP19870111069	19870730
EP0255703 B1	19920603	EP19870111069	19870730
US4789175 A	19881206	US19870078920	19870728

Priority:

DE19863625955 19860731 DE19863630687 19860909 EP19870111069 19870730
 DE19873779510 19870730 DE19870010562U 19870731

Probable Assignee: SCHRAMM SIEGFRIED 3208 GIESEN DE

Assignee(s): (std): SCHRAMM SIEGFRIED ; SCHRAMM SIEGFRIED K H

Assignee(s): SCHRAMM SIEGFRIED 3208 GIESEN DE

Inventor(s): (std): SCHRAMM SIEGFRIED ; SCHRAMM SIEGFRIED K H

Designated states: AT BE CH DE ES FR GB GR IT LI LU NL SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT76737 E	19920615	LSGT	+	granted / extensions (spc, cpc, pte)	
AT76737 E	19931015	LSLE	-REN	CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE	
AT76737 E	20070730	PEXP		Calculated Patent Term Expiry	
DE3625955 A1	19880211	LSPB	+	published / reissued	
DE3625955 A1	19880211	LSSES	+OM8	SEARCH REPORT AVAILABLE AS TO PARAGRAPH 43 LIT. 1 SENTENCE 1 PATENT LAW	
DE3625955 A1	19931028	LSLE	-8141	DISPOSAL/NO REQUEST FOR EXAMINATION	
DE3630687 A1	19880317	LSPB	+	published / reissued	
DE3630687 A1	19931209	LSLE	-8141	DISPOSAL/NO REQUEST FOR EXAMINATION	
DE3779510 D1	19930701	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE3779510 D1	19980709	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
DE8710562 U1	19871210	LSGT	+	granted / extensions	

(spc, cpc, pte)					
DE8710562 U1	19970731	PEXP		Calculated Patent Term Expiry	
EP0255703 A2	19880210	LSPB	+	published / reissued	
EP0255703 A2	19880210	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19870828
EP0255703 A3	19901227	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19901112
EP0255703 B1	19920603	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0255703 B1	19920603	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB LAPSED DATE : 19920603
EP0255703 B1	19920603	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL LAPSED DATE : 19920603
EP0255703 B1	19920603	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE LAPSED DATE : 19920603
EP0255703 B1	19920603	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 19920603
EP0255703 B1	19920603	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE LAPSED DATE : 19920603
EP0255703 B1	19920730	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT LAPSED DATE : 19920730
EP0255703 B1	19920731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LI LAPSED DATE : 19920731
EP0255703 B1	19920731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH LAPSED DATE : 19920731
EP0255703 B1	19920914	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES NOTIFICATION OF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 19920914
EP0255703 B1	19921023	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR LAPSED DATE : 19921023
EP0255703 B1	19921116	LSLE	-NLV1	NL: LAPSED OR ANNULLED DUE TO FAILURE TO FULFILL THE REQUIREMENTS OF ART. 29P AND 29M OF THE PATENTS ACT	REF COUNTRY CODE : EP
EP0255703 B1	19921209	LSWD	-GBV	GB: EP PATENT (UK) TREATED AS ALWAYS HAVING BEEN VOID IN ACCORDANCE WITH GB SECTION 77(7)/1977	REF COUNTRY CODE : EP
EP0255703 B1	19930331	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP0255703 B1	19930526	LSGT	+26N	NO OPPOSITION FILED	

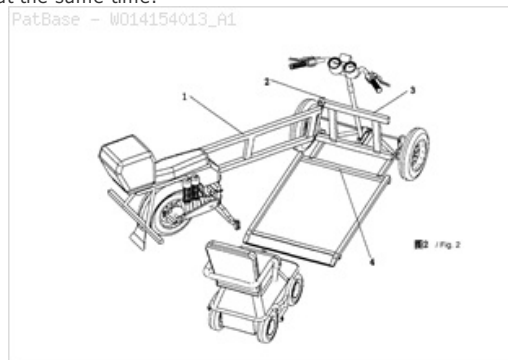
EP0255703 B1	19940527	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST
EP0255703 B1	19960824	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 19960824 YEAR OF FEE PAYMENT : 10
EP0255703 B1	19980401	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 19980401
EP0255703 B1	20070730	PEXP		Calculated Patent Term Expiry	
US4789175 A	19881206	LSGT	+	granted / extensions (spc, cpc, pte)	
US4789175 A	19880928	LSGT	PAT1	Patented Case	
US4789175 A	19921206	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US4789175 A	20180130	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	

Title: ROTARY LIFTING FRAME

Abstract: Disclosed is a rotary lifting frame, mainly comprising a fixed frame (1), a hinge shaft (2), a movable frame (3) and a wheel-chair bearing platform (4). The frame is divided into the fixed frame (1) and the movable frame (3), the wheel-chair bearing platform (4) is arranged on the movable frame (3), the movable frame (3) is hinged to the fixed frame (1) by means of the hinge shaft (2), and the hinge shaft (2) is not perpendicular to the ground. The rotary lifting frame is simple in structure, and is mainly characterized in that the hinge shaft is not perpendicular to the ground. Because the hinge shaft is not perpendicular to the ground, the rotary plane of the wheel-chair bearing platform mounted onto the movable frame is made to intersect the ground naturally. The rotary lifting frame enables the combination process of a wheel-chair and a vehicle for handicapped driving to be simple and convenient, and simplifies the overall structure of the vehicle at the same time.

Classifications:**International (IPC 8-9):** A61G5/00 B62K5/023 (Advanced/Invention)**CPC:** B62K3/16 B62K5/025 B62K5/05

PatBase - WO14154013_A1

**Family:**

Publication number	Publication date	Application number	Application date
CN103144717 A	20130612	CN201310097952	20130325
CN103144717 B	20141217	CN201310097952	20130325
CN203094305 U	20130731	CN201320139064U	20130325
WO14154013 A1	20141002	WO2014CN00085	20140123

Priority:

CN201310097952 20130325 CN201320139064U 20130325

Probable Assignee: HU DAGUANG**Assignee(s):** (std): HU DAGUANG**Inventor(s):** (std): HU DAGUANG

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
CN103144717 A	20130612	LSPB	+	published / reissued	
CN103144717 A	20130612	LSPB	+C06	PUBLICATION	
CN103144717 B	20141217	LSGT	+	granted / extensions (spc, cpc, pte)	
CN103144717 B	20141217	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN103144717 B	20150729	LSAS	ASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT	PARTYTYPE : OWNER OWNER : QIDONG TIANFEN ELECTRIC TOOL TECHNOLOGY INNOVATION OLDPARTY : FORMER OWNER: HU DAGUANG EFFECTIVE DATE : 20150709
CN103144717 B	20150729	LSAS	C41	TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL	
CN103144717 B	20330325	PEXP		Calculated Patent Term Expiry	
CN203094305 U	20130731	LSGT	+	granted / extensions (spc, cpc, pte)	
CN203094305 U	20130731	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	

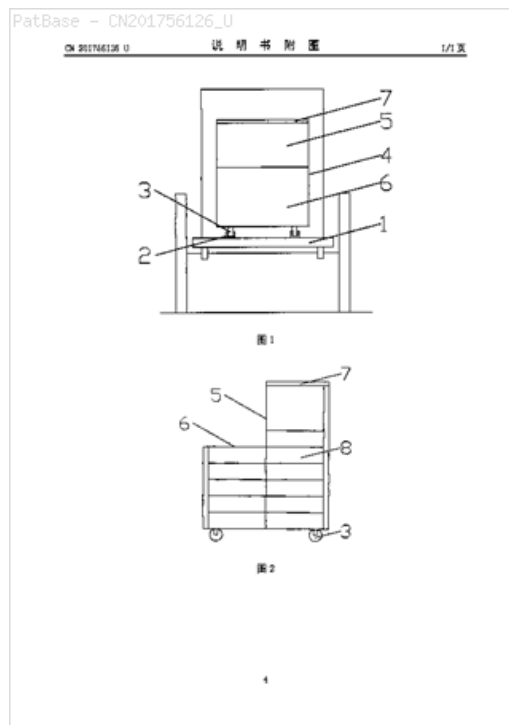
CN203094305 U	20160511	LSRV	-EXPY	TERMINATION OF PATENT RIGHT OR UTILITY MODEL	
CN203094305 U	20230325	PEXP		Calculated Patent Term Expiry	
WO14154013 A1	20141002	LSPB	+	published / reissued	
WO14154013 A1	20150925	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO14154013 A1	20160420	LSNE	-122	EP: PCT APPLICATION NON- ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 14776043 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :

Title: Shoe repairing **vehicle for the disabled**

Abstract: The utility model provides a shoe repairing **vehicle for the disabled**, which comprises a frame with rolling wheels (1), two sliding chute (2) provided on the bottom board of the vehicular frame (1), four rolling wheels (3) assembled below the seat of the tool box (4), wherein rolling wheels are attached to the sliding chute (2) and can sliding within the chute, and a lock is provided. The utility model has advantages that the disabled can push the shoe repairing **vehicle for the disabled** to the working place nearby manually; when the place is reached, the lock is opened, boxes with different height slides to the ground, the cover of the taller box is opened, the sewing machine is taken out and fixed onto the cover, the work can be started when seated on the short box, rotating drawers on lower portions of boxes are opened, so that working of the disable is very convenient; after the work is completed, the user can push boxes in different height onto the vehicle through the sliding chute, and go home after locking.

Classifications:

International (IPC 8-9): A43D5/00 B62B3/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN201756126 U	20110309	CN201020231649U	20100613

Priority:

CN201020231649U 20100613

Probable Assignee:

WENJUN HU

Assignee(s): (std):

WENJUN HU

Assignee(s):

HU WENJUN

Inventor(s): (std):

WENJUN HU

Inventor(s):

HU WENJUN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN201756126 U	20110309	LSGT	+	granted / extensions (spc, cpc, pte)	
CN201756126 U	20110309	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN201756126 U	20120808	LSLE	-C17	CESSATION OF PATENT RIGHT	
CN201756126 U	20200613	PEXP		Calculated Patent Term Expiry	

Title: VEHICLE FOR ROTATING CAROUSEL

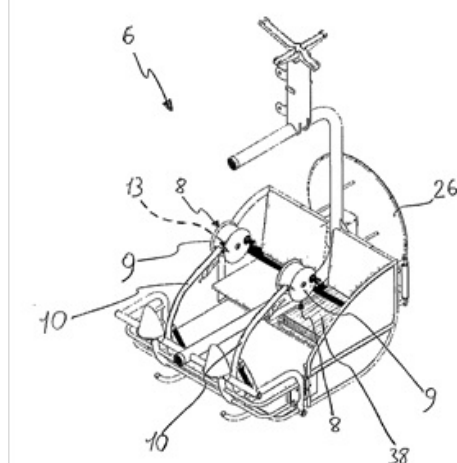
Abstract: A vehicle (6) for rotating carousel (1) is described, comprising means (8) movable by at least one passenger at a detectable speed, means (13) for detecting said speed of said movable means (8) and generating a corresponding signal and means (14, 15) for controlling the lifting of the vehicles (6) as a function of the activation and/or the speed of the movable means (8), characterized in that said movable means (8) are hand-operable means (8).

Classifications:

International (IPC 8-9): A63G1/10 A63G1/16
A63G1/30 (Advanced/Invention)

CPC: A63G1/16 A63G1/30

PatBase - US2017312641_AA



Family:

Publication number	Publication date	Application number	Application date
CN106999776 A	20170801	CN201580062074	20151117
DE602015022983 D1	20190117	DE201560022983T	20151117
EP3221019 A1	20170927	EP20150822999	20151117
EP3221019 B1	20190102	EP20150822999	20151117
TR201903130 T4	20190321	TR20190003130T	20151117
US2017312641 AA	20171102	US20150525971	20151117
US10016690 BB	20180710	US20150525971	20151117
WO16079666 A1	20160526	WO20151B58874	20151117

Priority:

IT2014MI01981 20141117 EP20150822999 20151117 WO20151B58874 20151117

Probable Assignee: ANTONIO ZAMPERLA SPA

Assignee(s): (std): ZAMPERLA ANTONIO SPA

Assignee(s): ANTONIO ZAMPERLA ALTAVILLA SPA ; ANTONIO ZAMPERLA S P A ; ANTONIO ZAMPERLA SPA

Inventor(s): (std): ZAMPERLA ALBERTO

Inventor(s): ALBERTO ZAMPERLA

Agent(s): FRANKE AND PARTNER PATENT U RECHTSANWAELTE; GISLON GABRIELE; CEREN AYYUREK; GISLON GABRIELE ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN106999776 A	20170801	LSPB	+	published / reissued	
CN106999776 A	20170801	LSPB	PB01	PUBLICATION	
CN106999776 A	20180601	LSDW	-WD01	INVENTION PATENT APPLICATION DEEMED WITHDRAWN AFTER PUBLICATION	
EP3221019 A1	20170927	LSPB	+	published / reissued	
EP3221019 A1	20170927	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20170531
EP3221019 A1	20181010	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	EFFECTIVE DATE : 20180914

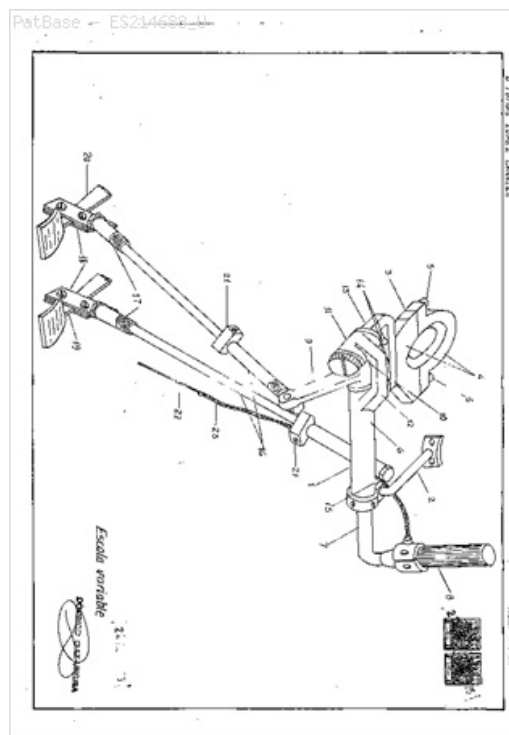
EP3221019 B1	20190102	LSGT	+	granted / extensions (spc, cpc, pte)	
EP3221019 B1	20190102	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP3221019 B1	20190115	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP3221019 B1	20190115	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 1083651 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20190115
EP3221019 B1	20190117	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602015022983 COUNTRY OF REF DOCUMENT : DE
EP3221019 B1	20190123	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP3221019 B1	20351117	PEXP		Calculated Patent Term Expiry	
TR201903130 T4	20190321	LSGT	+	granted / extensions (spc, cpc, pte)	
TR201903130 T4	20351117	PEXP		Calculated Patent Term Expiry	
US10016690 BB	20180710	LSGT	+	granted / extensions (spc, cpc, pte)	
US10016690 BB	20180620	LSGT	PAT1	Patented Case	
US10016690 BB	20351117	PEXP		Calculated Patent Term Expiry	
US2017312641 AA	20171102	LSPB	+	published / reissued	
US2017312641 AA	20171030	LSES	NFA1	Non Final Action Mailed	
US2017312641 AA	20171110	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : ANTONIO ZAMPERLA S.P.A., ITALY OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:ZAMPERLA, ALBERTO; REEL/FRAME:044087/0887 EFFECTIVE DATE : 20170519
US2017312641 AA	20180416	LSES	+NAM1	Notice of Allowance Mailed -- Application Received in Office of Publications	
US2017312641 AA	20180607	LSFE	+PPR1	Publications -- Issue Fee Payment Received	
WO16079666 A1	20160526	LSPB	+	published / reissued	
WO16079666 A1	20170511	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 15525971 COUNTRY OF REF DOCUMENT : US
WO16079666 A1	20170517	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE

Title: MANDO DE VEHICULO PARA MINUSVALIDOS.

Abstract: Source: ES214688U [ES] MANDO DE VEHICULO PARA MINUSVALIDOS caracterizado porque consiste en un cuerpo que compone un doble eje el cual permite su fijacion a un vehiculo por medio de una abrazadera situada en un extremo de este cuerpo compuesta de dos piezas independientes pudiendo ser ambas unidas mediante tornillos pasantes en una y roscados directamente en la otra la cual es solidaria del cuerpo que compone el doble eje. En el otro extremo de este cuerpo dispone debidamente articulado un tirante que termina en una placa con dos taladros posibilitando la sujecion del cuerpo al salpicadero de un vehiculo, pudiendo realizar la sujecion mediante la abrazadera anteriormente descrita, a la barra de la direccion quedando el conjunto solidamente unido sin posibilidad de desplazamientos transversales ni longitudinales. **Machine translation:** Vehicle CONTROL FOR DISABLED characterized in that it consists of a body that comprises a double axis which allows attachment to a vehicle by means of a clamp located at one end of this body composed of two independent parts can be both joined by screws and threaded in a directly in the other which is integral dual axis that makes up the body. At the other end of this body has duly articulated a strap that ends in a plate with two holes allowing the clamping of the body to the dashboard of a vehicle, and can perform the clamping by the clamp described above, to the address bar leaving the assembly firmly attached without possibility of longitudinal or transverse displacements.

Classifications:

International (IPC 8-9): B60K (Subclass/Invention)



Family:

Publication number	Publication date	Application number	Application date
ES214688 U	19760701	ES19750214688U	19750822
ES214688 Y	19770716	ES19750214688U	19750822

Priority:

ES19750214688U 19750822

Probable Assignee: NIETO LEON VIRGILIO

Assignee(s): (std): FERNANDEZ MARTINEZ Y LOPEZ CAN ; FERNANDEZ MARTINEZ Y LOPEZ CANALES J L Y T ; NIETO LEON VIRGILIO

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
ES214688 U	19760701	LSPB	+	published / reissued	
ES214688 Y	19770716	LSGT	+	granted / extensions (spc, cpc, pte)	
ES214688 Y	19850822	PEXP		Calculated Patent Term Expiry	

Title: Operating device of booster **vehicle for the disabled**

Abstract: The utility model discloses an operating device of a moped for the disabled. The operating device can solve the problems that the operation of the current mopeds for the disabled is more troublesome and the driving demands of the disabled can not be satisfied to the maximum extent; furthermore, the operating device has the advantages of simple structure, convenient usage, providing convenience for the disabled, etc. The structure of the utility model is as follows: the operating device comprises a steering wheel, a foot clutch, a foot brake and a foot accelerator and is further provided with a manual manipulator; the manual manipulator is provided with a gear lever, the upper end of which is provided with a manual accelerator twist grip, a manual accelerator handle is connected with the foot accelerator and is also provided with a manual clutch brake handle which is connected with the foot clutch and the foot brake is connected with a manual brake lever.

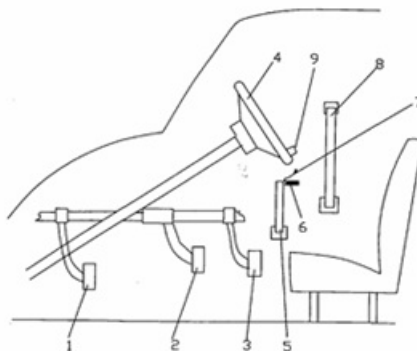
Classifications:

International (IPC 8-9): B60K23/02 B60K26/02

B60T7/10 (Advanced/Invention);

B60K23/00 B60K26/00 B60T7/02 (Core/Invention)

PatBase - CN201154665_Y



Family:

Publication number	Publication date	Application number	Application date
CN201154665 Y	20081126	CN200820016922U	20080123

Priority:

CN200820016922U 20080123

Probable Assignee:

DAOYI ZHANG

Assignee(s): (std):

DAOYI ZHANG

Assignee(s):

ZHANG DAOYI

Inventor(s): (std):

DAOYI ZHANG

Inventor(s):

ZHANG DAOYI

Legal status (INPADOC)

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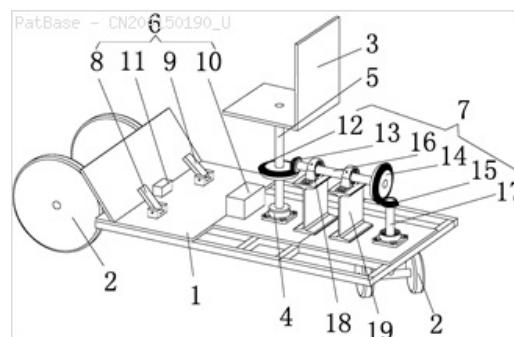
Patent	Date recorded	Event group	Code	Event	Details
CN201154665 Y	20081126	LSGT	+	granted / extensions (spc, cpc, pte)	
CN201154665 Y	20081126	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN201154665 Y	20110330	LSLE	-C17	CESSATION OF PATENT RIGHT	
CN201154665 Y	20180123	PEXP		Calculated Patent Term Expiry	

Title: VEHICLE FOR DISABLED PEOPLE

Abstract: The utility model provides a vehicle for disabled people. The vehicle comprises a chassis (1), wheels (2) and a seat (3), wherein two groups of wheels (2) are mounted on the chassis (1); a rolling bearing (4) is arranged on the chassis (1); the seat (3) is rotationally connected with the rolling bearing (4) through a seat connecting shaft (5); a power control system (6) and a steering mechanism (7) are further arranged on the chassis (1); one group of wheels (2) are mounted on the chassis (1) in an oriented manner; the other group of wheels (2) are connected with the seat connecting shaft (5) through the steering mechanism (7), and a hub motor is mounted on the group of wheels (2); and the power control system (6) is electrically connected with the hub motor. With the adoption of the novel steering mechanism, the problem about how to steer when an armless disabled person drives a vehicle is solved, and the **vehicle for the disabled** people has the advantages of simple structure, safety and easiness in operation.

Classifications:

International (IPC 8-9): B62D3/12 B62K21/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN204150190 U	20150211	CN201420598881U	20141016

Priority:

CN201420598881U 20141016

Probable Assignee: NORTHEASTERN UNIV AT QINHUANGDAO BRACH

Assignee(s): (std): NORTHEASTERN UNIV ; NORTHEASTERN UNIV AT QINHUANGDAO BRACH

Inventor(s): (std): WANG CHENG ; WANG HAIFENG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN204150190 U	20150211	LSGT	+	granted / extensions (spc, cpc, pte)	
CN204150190 U	20150211	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN204150190 U	20241016	PEXP		Calculated Patent Term Expiry	

Title: VEHICLE FOR DISABLED PERSONS

Abstract: Source: PL126337U [PL] Pojazd dla niepełnosprawnych posiada rame (2) w kształcie litery U wewnątrz której znajduje się zespół ruchomej podłogi (3) z napędem podnoszenia i opuszczania (4) w celu ułatwienia wjazdu wozkiem inwalidzkim (8) do wnętrza pojazdu i obsługi pojazdu z zablokowanego wózka inwalidzkiego, w normalnym ruchu drogowym. **Machine translation:** The vehicle for the disabled has Franca Rame (2) in the shape of the letter U inside of which is independent of the mobile floor (3) with the lifting and lowering (4) to be an entry carriage chairs (8) to the interior of the vehicle and serve the vehicle with a blocked cassette wheelchair in normal traffic.

Classifications:

International (IPC 8-9): A61G3/00 B62D25/20 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
■ PL126337 U1	20180910	PL20170126337U	20170302

Priority:

PL20170126337U 20170302

Probable Assignee: G KUCHARCZYK EUGENIUSZ KUCHARCZYK OGOLNA INZYNIERIA MECH IMPORT EXPORT FA

Assignee(s): (std): G KUCHARCZYK EUGENIUSZ KUCHARCZYK OGOLNA INZYNIERIA MECH IMPORT EXPORT FA

Assignee(s): G KUCHARCZYK EUGENIUSZ KUCHARCZYK OGOLNA INZYNIERIA MECHANIKA IMPORT EXPORT FA

Inventor(s): (std): KUCHARCZYK EUGENIUSZ

Legal status (INPADOC)

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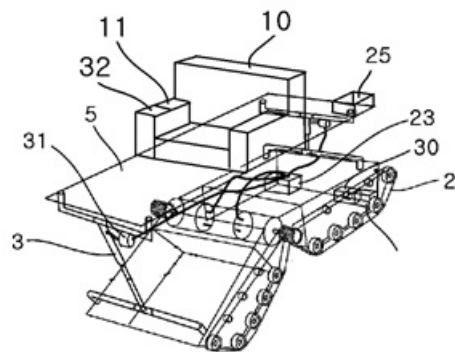
Patent	Date recorded	Event group	Code	Event	Details
PL126337 U1	20180910	LSPB	+	published / reissued	

Title: CLIMB STEP WHEEL CHAIR

Abstract: The present invention relates to an electric **vehicle for the disabled** climbing stairs. The electric **vehicle for the disabled** climbing stairs comprises: two caterpillars rotated by an electricity output when a power supply unit of a battery and a switch of a switch unit are switched on, wherein the two caterpillars are connected with each other by a hinge; a first main body and a second main body respectively forming main bodies with a motor or an engine driving the caterpillars; an upper plate formed on each of the main bodies; a control pole for maintaining the horizontality of a hydraulic, pneumatic, or rack and pinion type upper plate connecting each of the main body with the upper plate; connection control poles connected with one or two upper plates on the main bodies or three upper plates as a whole and formed at left and right sides of the connection control pole, respectively; a driving unit allowing one motor or engine driving the caterpillars to rotate the two caterpillars at a position at which an inner caterpillar and an outer caterpillar overlap with each other in the center of the two caterpillars; and a driving device operated when the switch of the motor driving the connection control pole for maintaining the horizontality of the upper plate is switched on by power output when the switch of the switch unit and the power supply unit of the battery are switched on. Therefore, the electric **vehicle for the disabled** climbing stairs can maintain the horizontality by operating the hydraulic, pneumatic, or rack and pinion type connection control pole by the operation of the driving device.

Classifications:**International (IPC 8-9):** A61G5/06 (Advanced/Invention)**CPC:** A61G5/066 A61G5/04 A61G5/061 A61G5/10

PatBase - KR20160097473_A

**Family:**

Publication number	Publication date	Application number	Application date
KR20160097473 A	20160818	KR20150019139	20150208

Priority:

KR20150019139 20150208

Probable Assignee: LEE JUNG YONG**Assignee(s):** (std): LEE JEONG YONG ; LEE JUNG YONG**Inventor(s):** (std): LEE JEONG YONG**Legal status (INPADOC)**[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
KR20160097473 A	20160818	LSPB	+	published / reissued	

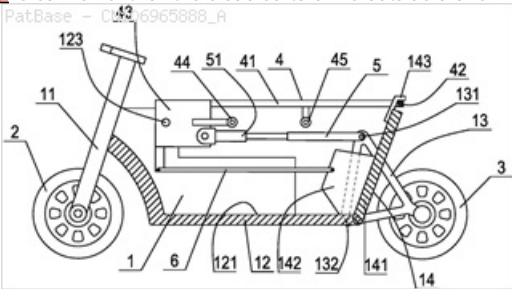
Title: SPECIAL MOTOR **VEHICLE FOR THE DISABLED**

Abstract: The invention discloses a special motor **vehicle for the disabled**. The special motor **vehicle for the disabled** comprises front wheels, rear wheels, a vehicle body main body and a rotating bracket, wherein the rotating bracket is connected with a wheel axle of the rear wheels on the left and right sides; a locating platform is arranged on the vehicle body main body; an upper hinging point and a lower hinging point are arranged on one side, close to the front wheels, of the rotating bracket; the lower hinging point of the rotating bracket is hinged with the lower part of the rear side, on the corresponding side, of the vehicle body main body; two ends of a U-shaped rotating rod are fixedly connected with transfer plates; the transfer plates are rotationally connected to the left and right sides of the vehicle body main body; a left rear press wheel and a right rear press wheel are arranged on the U-shaped rotating rod; driving rod pieces are connected between the upper hinging point of the rotating bracket and the transfer plates; front press wheels are also arranged on the two transfer plates; the lower edge of the rear side of the vehicle body main body is rotationally connected with a rear stopping plate; and pull rods are arranged between the rear stopping plate and the transfer plates. The special motor **vehicle for the disabled** is simply structured; and the disabled can manually and independently get on and off the vehicle by sitting in a wheelchair and enable the wheelchair to be reliably positioned; therefore, the special motor **vehicle for the disabled** is convenient for the disabled to drive outside alone.

Classifications:

International (IPC 8-9): B62K5/025 (Advanced/Invention)

CPC: B62K5/025 B62K2204/00



Family:

Publication number	Publication date	Application number	Application date
 CN106965888 A	20170721	CN201710086447	20170217

Priority:

CN201710086447 20170217

Probable Assignee:	HE ZHENXIAN
Assignee(s): (std):	HE ZHENXIAN
Inventor(s): (std):	HE ZHENXIAN ; ZHANG SHUZH

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN106965888 A	20170721	LSPB	+	published / reissued	

Title: Motorfahrzeug, insbesondere Motorfahrzeug fuer Behinderte Motor vehicle, especially a motor **vehicle for the disabled**
(Machine translation)

Abstract: Source: DE202008002737U1 [DE] (Claim 1) 1 Motorfahrzeug, insbesondere Motorfahrzeug fuer behinderte Kinder, mit einem mehrspurigen Fahrwerk, dadurch gekennzeichnet, dass das Fahrwerk (6) des Motorfahrzeuges aus dem Fahrwerk (7) eines handelsverfuegbaren Kinderfahrzeuges und aus einem Triebmodul (8) zusammengesetzt ist.

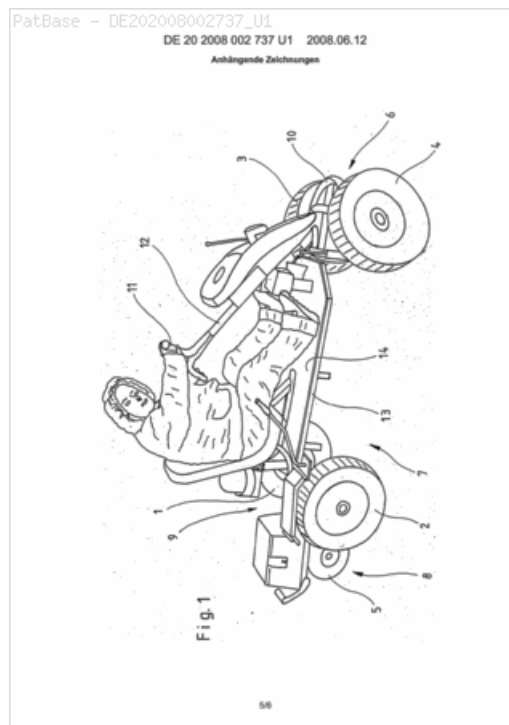
Machine translation: (Claim 1) 1 motor vehicle, in particular motor vehicle for handicapped children, with a mehrspurigen chassis, by the fact characterized that the chassis (6) of the motor vehicle is compound from the chassis (7) of an commercialavailable child vehicle and from an impulse module (8).

Classifications:

International (IPC 8-9): A61G5/04 B62K11/00
B62K5/00 (Advanced/Invention)

CPC: B62K9/00 B62K2204/00

European: B62K9/00 L62K204/00



Family:

Publication number	Publication date	Application number	Application date
DE202008002737 U1	20080508	DE200820002737U	20080227

Priority:

DE200820002737U 20080227

Probable Assignee:

HARMS HARALD

Assignee(s): (std):

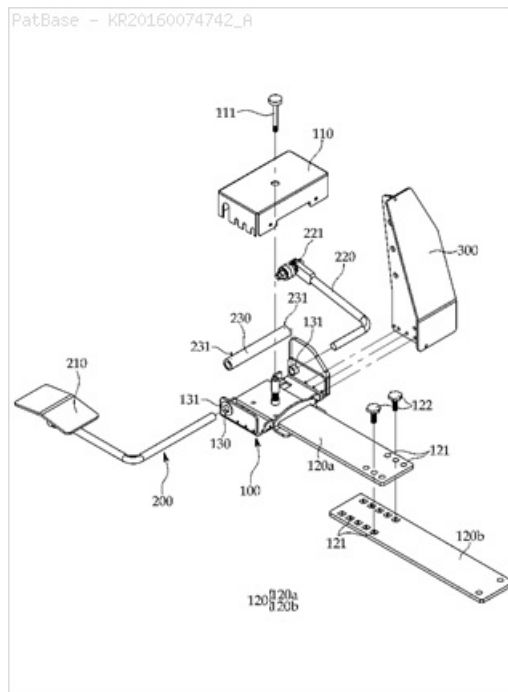
HARMS HARALD

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE202008002737 U1	20080508	LSGT	+	granted / extensions (spc, cpc, pte)	
DE202008002737 U1	20080612	LSGT	R207	UTILITY MODEL SPECIFICATION	EFFECTIVE DATE : 20080612
DE202008002737 U1	20120105	LSLE	-R156	LAPSE OF IP RIGHT AFTER 3 YEARS	EFFECTIVE DATE : 20110901
DE202008002737 U1	20180227	PEXP		Calculated Patent Term Expiry	

CPC: B60K26/02 B60K26/021 B60K2026/022



Publication number	Publication date	Application number	Application date
KR101642768 B1	20160811	KR20140182582	20141217
KR20160074742 A	20160629	KR20140182582	20141217

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Patent	Date recorded	Event group	Code	Event	Details
KR101642768 B1	20160811	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101642768 B1	20341217	PEXP		Calculated Patent Term Expiry	
KR20160074742 A	20160629	LSPB	+	published / reissued	
KR20160074742 A	20141217	LSES	A201	REQUEST FOR EXAMINATION	
KR20160074742 A	20160421	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR20160074742 A	20160720	LSGT	+GRNT	WRITTEN DECISION TO GRANT	

Title: AN ASSEMBLY AND METHOD FOR CUSTOMIZING VARIOMATIC TRANSMISSION VEHICLE FOR DI AMELIA (ARMLESS) HUMAN BEINGS

Abstract: The invention discloses an assembly and method for customizing variomatic transmission vehicle for di-amelia (armless) human beings. The handle bar which is generally used in the moped using hands is alternated into use by the leg by customizing the assembly. Therefore, the brake, acceleration and turning of moped are provided in a way to use by the legs. It is very helpful to handless people to get transported from one place to another. This will create a great revolution in changing the life of physically disabled people (handless people) and creates a mode of transportation for di-amelia human beings without being dependent on others.

Classifications:

International (IPC 8-9): B23Q (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
IN02938CH2015 A	20161216	IN2015CH02938	20150611

Priority:

IN2015CH02938 20150611

Probable Assignee: N KARTHIKEYAN

Assignee(s): N KARTHIKEYAN

Inventor(s): N KARTHIKEYAN ; R SARAVANAN ; S SENTHIL KUMARAN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
IN02938CH2015 A	20161216	LSPB	+	published / reissued	

Title: FULL-AUTOMATIC MANNED BLIND GUIDE VEHICLE AND CONTROL METHOD BASED ON IMAGE IDENTIFICATION TECHNOLOGY

Abstract: The invention provides a full-automatic manned blind guide vehicle and a control method based on an image identification technology, belonging to the field of transportation tools dedicated for the disabled. The full-automatic manned blind guide vehicle comprises a blind sidewalk identifying system, a voice navigation system, a central control system and a power system, wherein the central control system is used for controlling the action mode of the power system in accordance with a control strategy embedded into the central control system according to system information transmitted by the blind sidewalk identifying system and the voice navigation system; the control method comprises the following steps that: the central control system carries out software/hardware initialization operation after being powered on; the central control system transmits an instruction to prompt a system to carry out unlocking operation in mode of voice; the central control system transmits an instruction; the voice navigation system is started and waits for an identification voice information instruction; and the voice navigation system converts the voice information into a system instruction through the voice identification module when receiving the voice information instruction, and transmits the system instruction to the central control system. The invention has the advantages that the system intelligent degree is high, the control method is advanced and scientific, the running route is safe and accurate, and the like, and is an ideal dedicated transportation tool for the blind and the aged.

Classifications:

International (IPC 8-9): A61H3/06 B60W30/00 B60W40/02 G01C21/26 G05D1/02 G06K9/00 (Advanced/Invention)

PatBase - CN102670383_B

说明书附图 1/3页

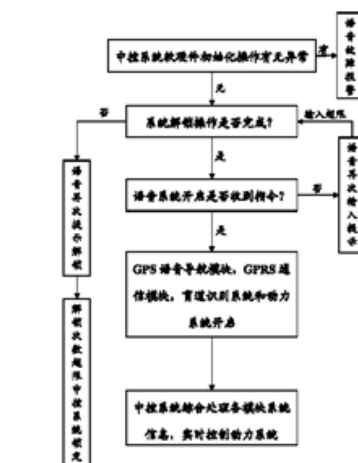


图1

Family:

Publication number	Publication date	Application number	Application date
■ CN102670383 A	20120919	CN201110053080	20110305
■ CN102670383 B	20131106	CN201110053080	20110305
■ CN202011393 U	20111019	CN201120056475U	20110305

Priority:

CN201110053080 20110305 CN201120056475U 20110305

Probable Assignee: SHANDONG SHENPU TRAFFIC TECHNOLOGY CO LTD

Assignee(s): (std): SHANDONG SHENPU TRAFFIC TECHNOLOGY CO LTD

Assignee(s): SHANDONG SHENPU TRAFFIC TECHNOLOGY CO

Inventor(s): (std): GAO XIAOQUN ; LIU DONGLIN ; GAO SHUYUAN ; GONG CHUNYONG ; ZHAO HUA ; DONGLIN LIU ; HUA ZHAO ; CHUNYONG GONG ; SHUYUAN GAO ; XIAOQUN GAO

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN102670383 A	20120919	LSPB	+	published / reissued	
CN102670383 A	20120919	LSPB	+C06	PUBLICATION	
CN102670383 B	20131106	LSGT	+	granted / extensions (spc, cpc, pte)	
CN102670383 B	20131106	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN102670383 B	20171222	LSAS	TR01	TRANSFER OF PATENT RIGHT	
CN102670383 B	20190301	LSLE	-CF01	TERMINATION OF PATENT RIGHT DUE TO NON-	

PAYMENT OF ANNUAL FEE				
CN102670383 B	20310305	PEXP		Calculated Patent Term Expiry
CN202011393 U	20111019	LSGT	+	granted / extensions (spc, cpc, pte)
CN202011393 U	20111019	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL
CN202011393 U	20160427	LSRV	-EXPY	TERMINATION OF PATENT RIGHT OR UTILITY MODEL
CN202011393 U	20210305	PEXP		Calculated Patent Term Expiry

Title: Transmission gear of solar four-wheeled electric **vehicle for the disabled**

Abstract: The utility model relates to a driving device of a solar electric four-wheel scooter for the disabled, and belongs to an electric car for the disabled, which is characterized in that an H-shaped auxiliary stand is arranged on the main beam of the chassis of the four-wheel scooter, and a left bearing seat and a right bearing seat as well as a left bearing and a right bearing are respectively arranged at the bottom of the left stand plate and the right stand plate of the auxiliary stand; a left half shaft and a right half shaft are correspondingly arranged in the left bearing and the right bearing, and the circumference of a gear disc on a differential housing is uniformly provided with bolt holes; a bolt is arranged in each bolt hole in a penetrating way, and a large chain wheel is arranged at one side of the gear disc; a space ring is arranged between the large chain wheel and the gear disc, and a small chain wheel is arranged on the output shaft of a DC stepless speed changing motor; and a chain is arranged between the large chain wheel and the small chain wheel to drive. The large chain wheel and the small chain wheel are chosen to enable the speed ratio of the large chain wheel and the small chain wheel to meet the driving requirements of the electric four-wheel scooter; an adjusting screw rod is correspondingly arranged on the bracket for lifting the DC stepless speed changing motor to adjust the tightness of the chain according to the needs; the installation and the replacement of the chain are both convenient and fast, the price is lower, and the use is safe and reliable.

Classifications:

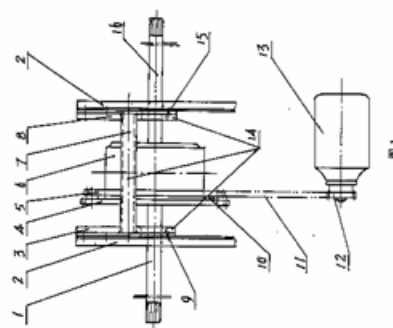
International (IPC 8-9): B60K17/12 B60K17/16 (Advanced/Invention);
B60K17/16 (Core/Invention)

PatBase - CN201268222_Y

DOCUMENT ID: G

说明书附图

第1/1页



Family:

Publication number	Publication date	Application number	Application date
■ CN201268222 Y	20090708	CN200820187109U	20080924

Priority:

CN200820187109U 20080924

Probable Assignee:

JINXIONG GAO

Assignee(s): (std):

JINXIONG GAO

Assignee(s):

GAO JINXIONG

Inventor(s): (std):

JINXIONG GAO

Inventor(s):

GAO JINXIONG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN201268222 Y	20090708	LSGT	+	granted / extensions (spc, cpc, pte)	
CN201268222 Y	20090708	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN201268222 Y	20131113	LSLE	-C17	CESSATION OF PATENT RIGHT	
CN201268222 Y	20180924	PEXP		Calculated Patent Term Expiry	

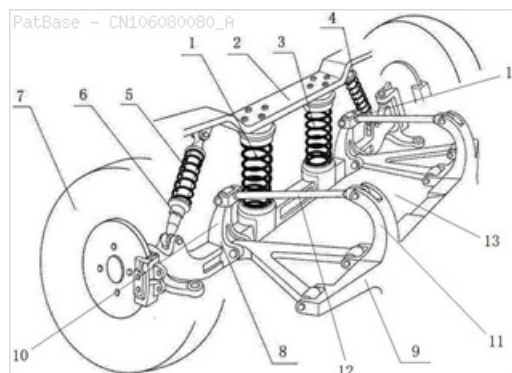
Title: BATTERY ELECTRIC **VEHICLE FOR THE DISABLED**

Abstract: The invention provides a battery electric **vehicle for the disabled**. According to the technical scheme, a supporting frame and a suspension axle are connected through two sets of main springs, so that a damping effect is guaranteed in the vertical direction; and meanwhile, in order to solve the problem that a battery electric vehicle low in self-weight generates severe lateral deviation when jolting, oblique hydraulic cylinders are arranged on the edges of the supporting frame and the edges of the suspension axle, and therefore the damping effect is improved. In addition, a horizontal tray is welded between a chassis and the suspension axle, the tray is surrounded by protruding portions and connecting rods, and thus the tray can be used for fixing a battery pack due to the structure. In this mode, the large-weight battery pack is moved forwards to the vehicle head, the self-weight of the vehicle head is increased, and therefore the dragging stability of an engine is improved, and meanwhile vibration and jolting are further relieved. According to the battery electric vehicle, the damping performance of the battery electric vehicle is greatly improved due to the creative design of a front suspension assembly, and the battery electric vehicle is driven more stably and is particularly suitable for the disabled.

Classifications:

International (IPC 8-9): B60G15/06 (Advanced/Invention)

CPC: B60G15/062 B60G15/067



Family:

Publication number	Publication date	Application number	Application date
■ CN106080080 A	20161109	CN201610454914	20160621

Priority:

CN201610454914 20160621

Probable Assignee: TIANJIN ZHONGKE ADVANCED TECH RES INST CO LTD

Assignee(s): (std): TIANJIN ZHONGKE ADVANCED TECH RES INST CO LTD

Assignee(s): TIANJIN ZHONGKE ADVANCED TECHNOLOGY RESEARCH INST CO ; TIANJIN BRANCH OF INST OF ADVANCED TECHNOLOGY CO LTD

Inventor(s): (std): CAO XIAOYAN ; HU HEBIN ; WU ZHENGBIN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN106080080 A	20161109	LSPB	+	published / reissued	
CN106080080 A	20161109	LSPB	+C06	PUBLICATION	

Title: Extension pedal device for accelerator of automobile

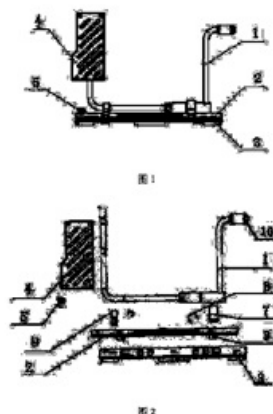
Abstract: The utility model discloses an extension pedal device for the accelerator of an automobile. The extension pedal device comprises a base and a U-shaped rod; a body seat is arranged between the base and the U-shaped rod; a wedge block is arranged at the bottom of the body seat; a through hole matched with the wedge block is formed on the base; a left connecting rod fixing seat and a right connecting rod fixing seat are arranged on the upper surface of the body seat and both are fixedly connected with the body seat; a limit clamping spring is arranged on the right side of the left connecting rod fixing seat as well as the left side of the right connecting rod fixing seat; clamping grooves are formed on the U-shaped rod in the positions corresponding to the limit clamping springs; the limit clamping springs are in buckle connection with the U-shaped rod; both the left connecting rod fixing seat and the right connecting rod fixing seat are hinged with the U-shaped rod; and the base is in buckle connection with the body seat. The extension pedal device has a simple structure, is mounted conveniently, and occupies a small space in the automobile; all automatic cars can be modified by using the device; the device can be mounted and dismantled by hands, and the purpose of transforming a **vehicle for the disabled** into a normal vehicle quickly can be achieved; and the limit clamping springs on the U-shaped rod can prevent the U-shaped rod from moving from side to side.

Classifications:

International (IPC 8-9): B60K26/02 (Advanced/Invention)

PatBase - CN201989626_U

CN 201989626 U 说明书附图 1/1页



Family:

Publication number	Publication date	Application number	Application date
CN201989626 U	20110928	CN201120049793U	20110228

Priority:

CN201120049793U 20110228

Probable Assignee: ZHEJIANG GEELY HOLDING GROUP

Assignee(s): (std): GEELY AUTOMOBILE RES INST ZJ ; ZHEJIANG GEELY AUTOMOBILE RESEARCH INST CO LTD ; ZHEJIANG GEELY HOLDING GROUP ; ZHEJIANG GEELY INT CORP ; ZHEJIANG GEELY HOLDING GROUP CO LTD

Assignee(s): ZHEJIANG GEELY INTERNATIONAL COPORATION ; ZHEJIANG GEELY AUTOMOBILE RESEARCH INSTITUTE CO

Inventor(s): (std): CHAOHUI DENG ; FUQUAN ZHAO ; JIANSHAN YU ; KAI CHEN ; XINGMIN WEI ; XUDONG CHEN ; RONG LIU

Inventor(s): WEI XINGMIN ; YU JIANSHAN ; ZHAO FUQUAN ; LIU RONG ; CHEN KAI ; CHEN XUDONG ; DENG CHAOHUI

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN201989626 U	20110928	LSGT	+	granted / extensions (spc, cpc, pte)	
CN201989626 U	20110928	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN201989626 U	20210228	PEXP		Calculated Patent Term Expiry	

Title: VEHICLE FOR DISABLED (Machine translation)

Abstract: Source: RU103731U

Machine translation: **Vehicle for the disabled**, comprising upper and lower poluramy on some parts of which have bearing wheel sets for moving on horizontal surfaces, and the second ends of the hinge in the front and rear on the rocker arm are interconnected by means of caterpillars to overcome stairs, curbs, ascents and descents, the mechanism of transfer of a vehicle from one mode to another movement, which consists of vertical plates in the shape of the sectors with the slots for the lugs on the upper arm and polurame with spring stops belonging to the sectors of the slot and fixed to the bottom polurame at This poluramy linked pivotally rotatable around the main horizontal axis located at the tops and bottoms of sectors levers, located between the axles supporting the wheels and tracks, wherein the power take-off by a coaxial engagement with the leading support wheel drive pulley tracks, in addition the vehicle is equipped with an additional mechanism of "Change" track.

Classifications:

International (IPC 8-9): A61G5/06 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
 RU103731 U1	20110427	RU20100134165U	20100816

Priority:

RU20100134165U 20100816

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
RU103731 U1	20110427	LSGT	+	granted / extensions (spc, cpc, pte)	
RU103731 U1	20160720	LSLE	-MM1K	UTILITY MODEL HAS BECOME INVALID (NON-PAYMENT OF FEES)	EFFECTIVE DATE : 20150817
RU103731 U1	20180816	PEXP		Calculated Patent Term Expiry	

Title: LIIKUNTARAJOTTEISEN AJONEUVO FORDON FOER ROERELSEHINDRADE

Abstract: The invention relates to a vehicle 1 for the disabled, by which the user of a wheelchair 19 transports himself from one place to another without assistance. The actual seat of the wheelchair 19 acts as a seat in the vehicle 1 for the disabled. The wheelchair is driven into the vehicle 1 with the aid of a drive ramp 11, which is mounted with hinges 12 in the wall of the vehicle 1 such that in its vertical position it remains inside the body 2. The floor of the vehicle 1 is rotatable and provided with guide rails 18 to facilitate fixing of the wheelchair. The motor 29 is placed on a hinged plane 30 which is resilient at the one end. This double-bottomed construction improves the spring suspension and driving characteristics of the vehicle 1 for the disabled.

Classifications:

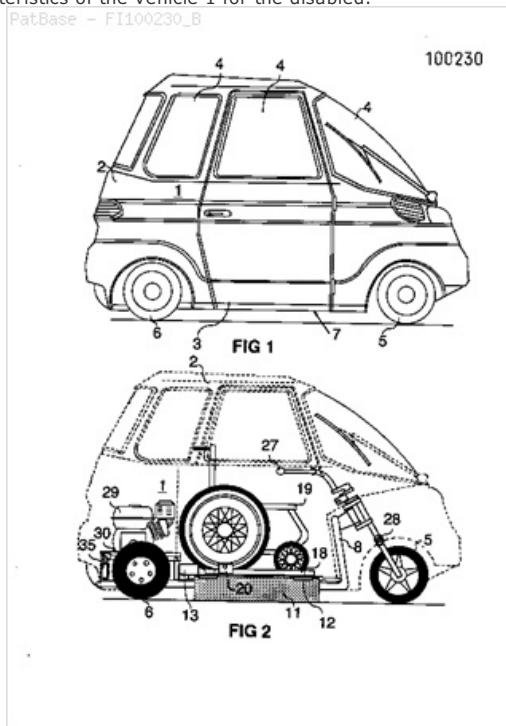
International (IPC 8-9): A61G3/08 B62D47/00 (Advanced/Invention);

A61G3/00 B62D47/00 (Core/Invention);

B62D (Subclass/Invention)

International (IPC 1-7): A61G3/08 B62D B62D47/00

PatBase - FI100230_B



Family:

Publication number	Publication date	Application number	Application date
FI100230 B	19971031	FI19940002370	19940520
FI942370 A	19951121	FI19940002370	19940520
FI942370 A0	19940520	FI19940002370	19940520

Priority:

FI19940002370 19940520

Probable Assignee:

LEO LAINE OY

Assignee(s): (std):

LEO LAINE OY

Inventor(s): (std):

LAINE LEO ILKKA

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
FI100230 B	19971031	LSPB	+	published / reissued	
FI100230 B	20061130	LSLE	-MA	PATENT EXPIRED	
FI100230 B	20140520	PEXP		Calculated Patent Term Expiry	
FI942370 A	19951121	LSPB	+	published / reissued	

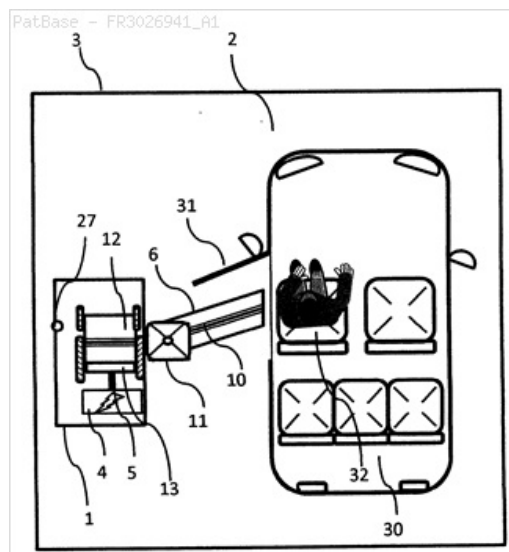
Title: DISPOSITIF DE TRANSFERT ENTRE AUTOMOBILE ET VEHICULE INDIVIDUEL, POUR AUTOMOBILISTE HANDICAPES MOTEURS, PROCEDE DE MISE EN OEUVRE, ET UTILISATION DEVICE TRANSFER BETWEEN MOTOR VEHICLE AND INDIVIDUAL FOR MOTORIST DISABLED MOTOR, METHOD OF IMPLEMENTATION AND USE (Machine translation)

Abstract: Source: FR3026941A [FR] Le dispositif comporte, des emplacements respectifs de transfert, dans lesquels le vehicule individuel (12) et le strapontin (11) se trouvent l'un a cote de l'autre et a proximite immediate, ledit strapontin mobile (11) pouvant etre guide entre une position avancee pres du siege (32) de l'automobile et son emplacement de transfert, une assise (18) destinee a supporter l'utilisateur et guidee entre ledit strapontin (11) et ledit vehicule individuel (12), lorsque ledit vehicule et ledit strapontin se trouvent dans leurs emplacements respectifs de transfert. **Machine translation:** The device comprises respective locations of transfer, in which the individual vehicle (12) and the folding seat (11) are one next to the other and immediate vicinity, said movable folding seat (11) can be guided between an advanced position near the seat (32) of the automobile and its transfer position, a seat (18) destiny to bear the user and guided between said folding seat (11) and said individual vehicle (12), when said vehicle) and said folding seat are in their respective transfer slots.

Classifications:

International (IPC 8-9): A61G3/02 (Advanced/Invention)

CPC: A61G3/063 A61G3/0808 A61G7/1025



Family:

Publication number	Publication date	Application number	Application date
FR3026941 A1	20160415	FR20140002266	20141008

Priority:

FR20140002266 20141008

Probable Assignee:

BERTRAND CLAUDE

Assignee(s): (std):

BERTRAND CLAUDE

Assignee(s):

CLAUDE BERTRAND

Inventor(s): (std):

BERTRAND CLAUDE

Inventor(s):

CLAUDE BERTRAND

Agent(s):

CLAUDE BERTRAND

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
FR3026941 A1	20160415	LSPB	+	published / reissued	
FR3026941 A1	20151014	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 2
FR3026941 A1	20160415	LSES	PLSC	SEARCH REPORT READY	EFFECTIVE DATE : 20160415
FR3026941 A1	20170127	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 3
FR3026941 A1	20180131	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
FR3026941 A1	20181012	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 5

Title: PROGRESSIVE MECHANICAL BRAKING AND/OR BLOCKING DEVICE AND APPLICATIONS OF THE SAME

Abstract: A progressive mechanical braking and blocking device (10) comprising a body having an upper housing (11a) and a lower housing (11b). The upper housing (11a) contains a central node (12) fixed to a shaft (13) which axially extends through the housing and which is arranged to be coupled with a rotating mechanism. The central node (12) is provided with bores (14, 15) arranged to receive two series of pins (14a, 15a) respectively solicited by urging springs (14b, 15b), the urging force of which is adjustable with screws (14c, 15c). The lower housing (11b) contains an axially mobile central piece (16) in a coaxial cavity arranged in the lower housing (11b). The central piece (16) is provided with a series of notches (21) provided opposite to the head of a series of pins and arranged to cooperate with the pin head (15a) of this series of pins to provide a breaking function for the device (10), and of a series of housings (22) arranged opposite the pin head (14a) of this other pin series to provide a blocking function for the device (10).

Classifications:

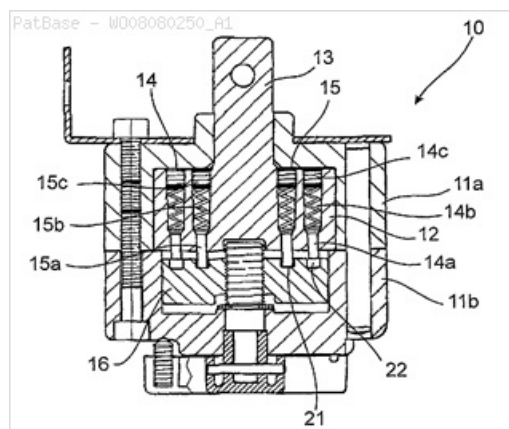
International (IPC 8-9): F16C11/10 F16D65/14

F16D71/00 (Advanced/Invention);

F16C11/04 F16D65/14 F16D71/00 (Core/Invention)

CPC: A61G5/1008 A61G5/101 A61G5/1027 B60R25/09 A61F2002/6818 A61F2002/6854 A61F2005/0158 B60R2325/306 F16D63/00 F16D63/006 F16D2121/14 F16D2125/36 F16D2125/40

European: A61G5/10B B60R25/09 F16D63/00 F16D63/00H K61F2/68B K61F2/68L K61F5/01D8L L60R325/30F R16D121/14 R16D125/36 R16D125/40



Family:

Publication number	Publication date	Application number	Application date
EP2106510 A1	20091007	EP20080700014	20080103
WO08080250 A1	20080710	WO2008CH00005	20080103

Priority:

CH20070000007 20070105 WO2008CH00005 20080103

Probable Assignee: FLAKES S A

Assignee(s): (std): FIOCCHI MARCO ; FLAKES S A

Assignee(s): FLAKES SA

Inventor(s): (std): FIOCCHI MARCO

Agent(s): NITHARDT ROLAND

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
EP2106510 A1	20091007	LSPB	+	published / reissued	
EP2106510 A1	20091007	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20090725
EP2106510 A1	20130605	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20120801
WO08080250 A1	20080710	LSPB	+	published / reissued	
WO08080250 A1	20090707	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO08080250 A1	20090725	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2008700014 COUNTRY OF REF DOCUMENT : EP

Title: TRANSPORT **VEHICLE FOR THE DISABLED**.

Abstract: The transport **vehicle for the disabled** is made up of an independently stable wheelchair (1) and of a bicycle drive part (2) with a seat (4) for another person, it being possible for the wheelchair (1) and the drive part (2) to be pivotable relative to one another about a vertically aligned axis (19). The connection of the wheelchair (1) to the drive part (2) has, besides the vertical axis (19), a horizontal pivot axis (20), it being possible for the wheelchair (1) with the drive part (2) to be locked in a pivot position about this horizontal axis (20), in which position the wheelchair (1) is supported only on the wheels (23) of one shaft (21).

Classifications:

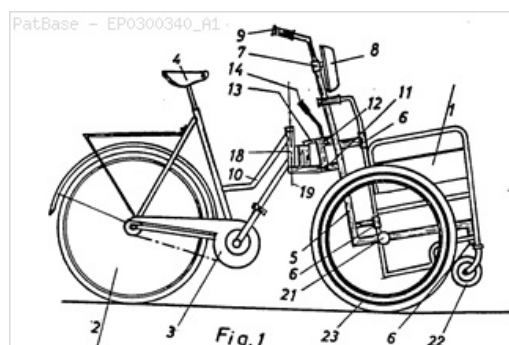
International (IPC 8-9): A61G5/00 B62K5/00

B62K7/00 (Advanced/Invention)

International (IPC 1-7): A61G5/00 A61G5/10 B62K5/00 B62K7/00

CPC: A61G5/1054 B62K13/00 A61G5/003 B62K5/00 B62K7/00

European: A61G5/00B B62K13/00 B62K5/00 B62K7/00 K61G5/10H



Family:

Publication number	Publication date	Application number	Application date
DE3724242 A1	19890202	DE19873724242	19870722
DE3724242 C2	19900726	DE19873724242	19870722
EP0300340 A1	19890125	EP19880111178	19880713

Priority:

DE19873724242 19870722

Probable Assignee: LAUDE DETLEF GERHARD

Assignee(s): (std): LAUDE DETLEF GERHARD

Assignee(s): LAUDE DETLEF GERHARD 2804 LILIENTHAL DE

Inventor(s): (std): LAUDE DETLEF GERHARD

Inventor(s): LAUDE DETLEF GERHARD 2804 LILIENTHAL DE ; GERHARD LAUDE DETLEF

Designated states: AT BE CH DE ES FR GB GR IT LI LU NL SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE3724242 A1	19890202	LSPB	+	published / reissued	
DE3724242 A1	19890202	LSES	+OP8	REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW	
DE3724242 C2	19900726	LSGT	+	granted / extensions (spc, cpc, pte)	
DE3724242 C2	19900726	LSGT	+D2	GRANT AFTER EXAMINATION	
DE3724242 C2	19901220	LSOP	-8363	OPPOSITION AGAINST THE PATENT	
DE3724242 C2	19940526	LSRV	-8331	COMPLETE REVOCATION	
EP0300340 A1	19890125	LSPB	+	published / reissued	
EP0300340 A1	19890329	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19890125
EP0300340 A1	19901003	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19900820
EP0300340 A1	19911016	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 19910420

Abstract: Source: DE8900500U1 [DE] (Claim 1) 1. Elektrisch angetriebenes Fahrzeug fuer Behinderte und Kranke, bestehend aus einem Fahrgestell in Form eines im wesentlichen rechteckigen Profilrohrrahmens mit zwei in Fahrtrichtung hinten befindlichen Antriebsrädern mit Elektroantrieb, einem vorderen Lenkrad mit Lenker sowie mit einem am Fahrgestell befestigten Sitz, dadurch gekennzeichnet, dass die Laengstraeger (3,4) des Profilrohrrahmens (1) teleskopartig ineinanderschiebbar sind und in ausgezogener und eingeschobener Lage arretierbar sind.

Machine translation: (Claim 1) 1 Electrically powered vehicle for disabled and sick people, consisting of a chassis in the form of a substantially rectangular section tube frame with two forward facing rear located with driving wheels electric drive, a front wheel with handlebars and a on the chassis mounted seat, wherein the Laengstraeger (3.4) of the tubular frame profile (1) are nested telescopically and out-coated and inserted are locked in position.

Classifications:

International (IPC 8-9): A61G5/04 (Advanced/Invention);

A61G5/10 (Advanced/Non-invention)

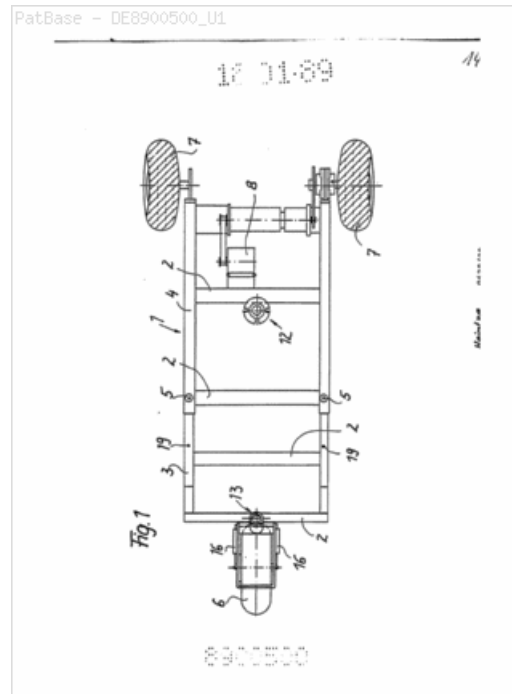
International (IPC 1-7): A61G5/04 B60K1/00

CPC: A61G5/045 A61G5/1051 A61G5/1059 A61G5/1072 A61G5/1078

A61G5/12

European: A61G5/04A6 K61G5/10G K61G5/10S12 K61G5/10S2

K61G5/10Z1 K61G5/12



Family:

Publication number	Publication date	Application number	Application date
DE8900500 U1	19890413	DE19890000500U	19890118

Priority:

DE19890000500U 19890118

Probable Assignee: HEINTZE HANS 5982 NEUENRADE DE

Assignee(s): HEINTZE HANS 5982 NEUENRADE DE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE8900500 U1	19890413	LSGT	+	granted / extensions (spc, cpc, pte)	
DE8900500 U1	19990118	PEXP		Calculated Patent Term Expiry	

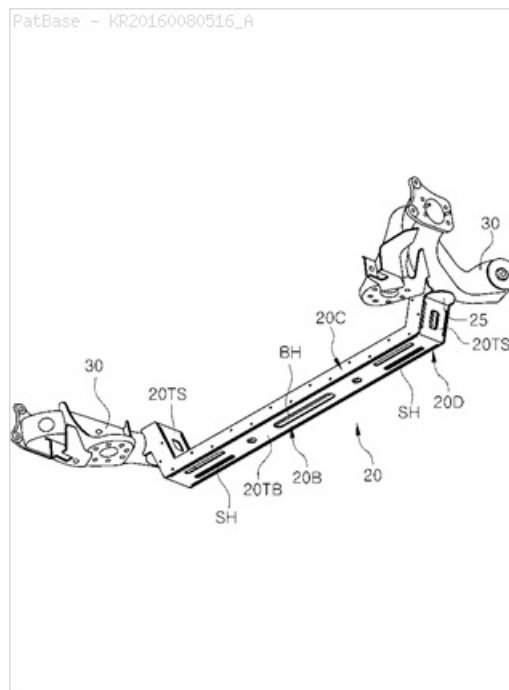
Title: DISABLED PERSON VEHICLE TORTION BEAM AXEL

Abstract: The present invention provides a torsion beam axle for a **vehicle for the disabled**, capable of allowing a **vehicle for the disabled** to be easily and quickly manufactured by lowering the height of a rear side of a vehicle such that the disabled get in. The torsion beam axle for a **vehicle for the disabled** including a lower floor (2) installed on a rear side of a vehicle body such that a floor of the rear side of the vehicle body is lower than other portions, comprises: a torsion beam (20) having a pair of side beam parts (24) upwardly extending from both end portions of a base beam part (22) and arm coupling pieces (25) provided in the side beam parts (24) to fix the base beam part (22) and the side beam parts (24) to the outer surface of the lower floor (2); and a pair of trailing arms (30) bonded to the arm coupling pieces (25) provided in the side beam parts (24) of the torsion beam (20).

Classifications:

International (IPC 8-9): B60G11/18 B60G7/02 (Advanced/Invention)

CPC: B60G11/18 B60G7/02



Family:

Publication number	Publication date	Application number	Application date
KR101689157 B1	20161223	KR20140192443	20141229
KR20160080516 A	20160708	KR20140192443	20141229

Priority:

KR20140192443 20141229

Probable Assignee: CHANG LIM MOATZ CO LTD

Assignee(s): (std): CHANG LIM MOATZ CO LTD

Assignee(s): CHANGRIM COLLECTED MASSACHUSETTS CORP ; CHANG LIM MOATZ CO

Inventor(s): (std): PARK SEUNG KWEM

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
KR101689157 B1	20161223	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101689157 B1	20141229	LSSES	A201	REQUEST FOR EXAMINATION	
KR101689157 B1	20160218	LSSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR101689157 B1	20160418	LSRE	AMND	AMENDMENT	
KR101689157 B1	20160816	LSRV	-E601	DECISION TO REFUSE APPLICATION	
KR101689157 B1	20160919	LSRE	AMND	AMENDMENT	
KR101689157 B1	20161102	LSGT	+X701	DECISION TO GRANT (AFTER RE-EXAMINATION)	
KR101689157 B1	20161219	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR101689157 B1	20341229	PEXP		Calculated Patent Term Expiry	
KR20160080516 A	20160708	LSPB	+	published / reissued	
KR20160080516 A	20141229	LSSES	A201	REQUEST FOR EXAMINATION	

KR20160080516 A	20160218	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL
KR20160080516 A	20160418	LSRE	AMND	AMENDMENT
KR20160080516 A	20160816	LSRV	-E601	DECISION TO REFUSE APPLICATION
KR20160080516 A	20160919	LSRE	AMND	AMENDMENT
KR20160080516 A	20161102	LSGT	+X701	DECISION TO GRANT (AFTER RE-EXAMINATION)

Title: POWER DRIVEN VEHICLE FOR DISABLED

Abstract: PCT No. PCT/SE88/00330 Sec. 371 Date Feb. 9, 1990 Sec. 102(e) Date Feb. 9, 1990 PCT Filed Jun. 16, 1988 PCT Pub. No. WO88/10109 PCT Pub. Date Dec. 29, 1988. A power driven vehicle for disabled, particularly for children, and which incorporates a motor driven chassis module, a seat module and an accumulator module, wherein the chassis module incorporates two wheel pair units, which are disconnectable from each other and constitute a first, front wheel unit and a second, rear wheel unit, one of the wheel pair units, preferably the first wheel unit, incorporating two steering and driving units acting individually upon one wheel each, the second wheel unit being composed by a central beam, one end of which is connectable to the first wheel unit and having at its other end a yoke pivotably supported transversely to the longitudinal direction of the vehicle, and having at its free ends wheels supported in bearings, and said seat module being centrally arranged on the beam, whereas said accumulator module is attached on both sides of the beam, between the pairs of wheels.

Classifications:

International (IPC 8-9): A61G5/04 A61G5/10

B62D25/00 (Advanced/Invention);

A61G5/10 B62D25/00 (Advanced/Non-invention)

International (IPC 1-7): A61G5/04 B62D1/12 B62D25/00 B62D27/06

CPC: Y10S180/907 Y10S280/05 Y10S297/04 A61G5/042 A61G5/046

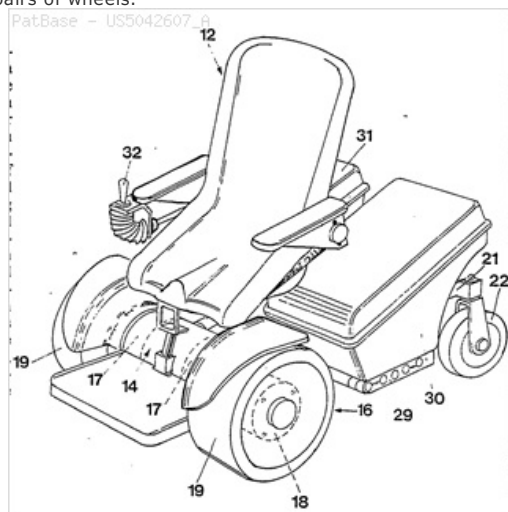
A61G5/1059 A61G5/107 A61G2200/14 A61G2203/14 A61G5/101

A61G5/1024 A61G5/1051 A61G5/1081

European: A61G5/04A2 A61G5/04A8 K61G200/14 K61G203/14

K61G5/10G K61G5/10S10 K61G5/10S2 K61G5/10Z2

US: 180/208 180/6.48 180/907 280/DIG.5 297/DIG.4



Family:

Publication number	Publication date	Application number	Application date
AT74742 E	19920515	AT19880906171T	19880616
AU198819868 A1	19890119	AU19880019868	19880616
CA1290237 A1	19911008	CA19880570013	19880621
DE3870242 D1	19920521	DE19883870242	19880616
EP0367784 A1	19900516	EP19880906171	19880616
EP0367784 B1	19920415	EP19880906171	19880616
JP2503874 T2	19901115	JP19880505575T	19880616
SE465015 B	19910715	SE19870002577	19870622
SE465015 C	19911107	SE19870002577	19870622
SE8702577 A	19881223	SE19870002577	19870622
SE8702577 A0	19870622	SE19870002577	19870622
SE8702577 L	19881223	SE19870002577	19870622
US5042607 A	19910827	US19900460895	19900209
WO8810109 A1	19881229	WO1988SE00330	19880616

Priority:

SE19870002577 19870622 EP19880906171 19880616 WO1988SE00330 19880616
CA19880570013 19880621

Probable Assignee: MEDISWEDE AB HONEKULLAVAGEN 7 S 435 44 MOLNLYCKE SWEDEN OF SWEDEN CORP

Assignee(s): (std): INM INDUSTRITEKNIK A B ; INM INDUSTRITEKNIK AB

Assignee(s): INM INDUSTRITEKNIK METALLVAGEN AB ; LINDEROTH GORAN ; MEDISWEDE AB ; MEDISWEDE AB HONEKULLAVAGEN 7 S 435 44 MOLNLYCKE S ; MEDISWEDE HONEKULLAVAGEN 7 S 435 44 MOLNLYCKE SWED ; MEDISWEDE AB HONEKULLAVAGEN 7 S 435 44 MOLNLYCKE SWEDEN OF SWEDEN CORP ; FALKENSON RICKARD

Inventor(s): (std): FALKENSKOG R ; FALKENSON RICHARD ; FALKENSON RICKARD ; LINDEROTH G ; LINDEROTH GOERAN ; LINDEROTH GORAN

Inventor(s): R FALKENSKOG ; RICKARD FALKENSON ; G LINDEROTH ; GORAN LINDEROTH

Agent(s): MARKS AND CLERK

Designated states: AT AU BE BR CH DE DK FI FR GB IT JP LI LU NL NO SE SU US

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT74742 E	19920515	LSGT	+	granted / extensions (spc, cpc, pte)	
AT74742 E	19921015	LSLE	-RER	CEASED AS TO	

				PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT74742 E	20080616	PEXP		Calculated Patent Term Expiry	
AU198819868 A1	19890119	LSPB	+	published / reissued	
CA1290237 A1	19911008	LSGT	+	granted / extensions (spc, cpc, pte)	
CA1290237 A1	19960408	LSLE	-MKLA	LAPSED	
CA1290237 A1	20081008	PEXP		Calculated Patent Term Expiry	
DE3870242 D1	19930513	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE3870242 D1	19940113	LSAS	8327	CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER	PARTYTYPE : OWNER OWNER : MEDISWEDE AB, MOELNLYCKE, SE
DE3870242 D1	19980610	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	
EP0367784 A1	19900516	LSPB	+	published / reissued	
EP0367784 A1	19900516	LSSE	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 19891209
EP0367784 B1	19920415	LSGT	+	granted / extensions (spc, cpc, pte)	
EP0367784 B1	19920415	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH LAPSED DATE : 19920415
EP0367784 B1	19920415	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LI LAPSED DATE : 19920415
EP0367784 B1	19920415	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT LAPSED DATE : 19920415
EP0367784 B1	19920415	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE LAPSED DATE : 19920415
EP0367784 B1	19920415	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE LAPSED DATE : 19920415
EP0367784 B1	19920731	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP0367784 B1	19930407	LSGT	+26N	NO OPPOSITION FILED	
EP0367784 B1	19930910	LSAS	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : TP
EP0367784 B1	19930916	LSAS	NLS	NL: ASSIGNMENTS OF EP-PATENTS	PARTYTYPE : OWNER REF COUNTRY CODE : EP OWNER : MEDISWEDE AB TE MOELNLYCKE, ZWEDEN.
EP0367784 B1	19931004	LSAS	ITPR	IT: CHANGES IN OWNERSHIP OF A EUROPEAN PATENT	PARTYTYPE : OWNER REF COUNTRY CODE : EP OWNER : CESSIONE; MEDISWEDE AB
EP0367784 B1	19940427	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 19940427 YEAR OF FEE PAYMENT : 7
EP0367784 B1	19940429	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 19940429 YEAR OF FEE PAYMENT : 7
EP0367784 B1	19950616	LSLE	-PG25	LAPSED IN A	COUNTRY OF REF DOCUMENT : GB

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EP0367784 B1	19960214	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON- PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 19950616
EP0367784 B1	19960229	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR LAPSED DATE : 19960229
EP0367784 B1	19960419	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST
EP0367784 B1	19960604	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 19960604 YEAR OF FEE PAYMENT : 9
EP0367784 B1	19960620	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 19960620 YEAR OF FEE PAYMENT : 9
EP0367784 B1	19980101	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL LAPSED DATE : 19980101
EP0367784 B1	19980302	LSLE	-NLV4	NL: LAPSED OR ANULLED DUE TO NON- PAYMENT OF THE ANNUAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 19980101
EP0367784 B1	19980303	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 19980303
EP0367784 B1	20050616	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20050616
EP0367784 B1	20080616	PEXP		Calculated Patent Term Expiry	
JP2503874 T2	19901115	LSPB	+	published / reissued	
SE465015 B	19910715	LSPB	+	published / reissued	
SE465015 B	19950131	LSFE	+NAL	PATENT IN FORCE	TEXT : 8702577-1
SE465015 B	20010219	LSLE	-NUG	PATENT HAS LAPSED	TEXT : 8702577-1
SE465015 C	19911107	LSGT	+	granted / extensions (spc, cpc, pte)	
SE465015 C	20070622	PEXP		Calculated Patent Term Expiry	
SE8702577 A	19881223	LSPB	+	published / reissued	
US5042607 A	19910827	LSGT	+	granted / extensions (spc, cpc, pte)	
US5042607 A	19900209	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INM INDUSTRIEKNIK AB, SWEDEN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNORS:FALKENSSON, RICHARD; LINDEROTH, GORAN; REEL/FRAME:005231/0591 EFFECTIVE DATE : 19900125
US5042607 A	19910627	LSGT	PAT1	Patented Case	
US5042607 A	19930709	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MEDISWEDE AB HONEKULLAVAGEN 7 S-435 44 MOLNLYCK OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:INM INDUSTRIEKNIK

US5042607 A	19950213	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5042607 A	19990829	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5042607 A	19991109	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 19990827
US5042607 A	20180128	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5042607 A	20100209	PEXP		Calculated Patent Term Expiry	
WO8810109 A1	19881229	LSPB	+	published / reissued	
WO8810109 A1	19891209	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1988906171 COUNTRY OF REF DOCUMENT : EP
WO8810109 A1	19900516	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1988906171 COUNTRY OF REF DOCUMENT : EP
WO8810109 A1	19920415	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 1988906171 COUNTRY OF REF DOCUMENT : EP

Title: FAHRZEUG FÜR GEHBEHINDERTE VEHICLE FOR DISABLED (Machine translation)

Abstract: Source: CH472213A [DE] (Claim 1) 1. Fahrzeug nach Patentanspruch, dadurch gekennzeichnet, dass das Fahrstuhl-Fahrgestell aus vier Stabgelenk-Dreiecken besteht, welche durch das Anbringen von einem zusätzlichen Gelenk (11, 12) an je einem Gelenkstab (9, 10) pro Dreieck nach aussen aufschwenkbar ausgeführt sind, damit sich die sonst starren Stabgelenk-Dreiecke und somit das Fahrgestell zusammenklappen lassen.

Machine translation: (Claim 1) 1 Vehicle according to claim, wherein the elevator chassis of four rod-joint triangles, which are by attaching an additional hinge (11, 12) executed at a respective pivot rod (9, 10) per triangle outwards swiveling, thus the otherwise rigid rod joint triangles and therefore the chassis can be folded.

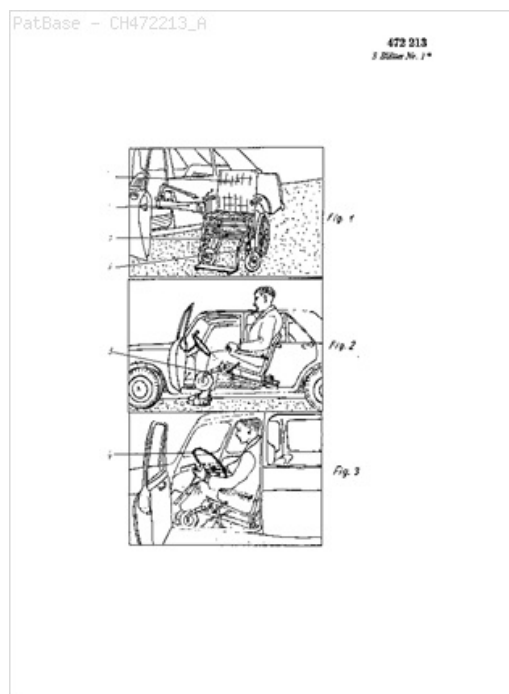
Classifications:

International (IPC 8-9): A61G3/06 (Advanced/Invention); A61G3/00 (Core/Invention)

International (IPC 1-7): A61G5/00 B60N1/00 B60N1/12

CPC: A61G3/062 A61G7/1042 A61G3/06

European: A61G3/06



Family:

Publication number	Publication date	Application number	Application date
CH472213 A	19690515	CH19680013930	19680913
DE6813453 U	19691127	DE19680113453U	19681228
DE6813453 U	19691127	DE19680013453U	19681210

Priority:

CH19680013930 19680913

Probable Assignee: ARBEITSZENTRUM F BEHINDERTE

Assignee(s): (std): ARBEITSZENTRUM F BEHINDERTE ; ARBEITSZENTRUM FÜR BEHINDERTE ; STIFTUNG ARBEITSZENTRUM

Inventor(s): (std): EDUARD MUEHLEMANN

Inventor(s): MUEHLEMANN EDUARD

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CH472213 A	19690515	LSGT	+	granted / extensions (spc, cpc, pte)	
CH472213 A	19880913	PEXP		Calculated Patent Term Expiry	
DE6813453 U	19691127	LSGT	+	granted / extensions (spc, cpc, pte)	
DE6813453 U	19691127	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: Bicycle booster

Abstract: The utility model discloses a bicycle energizing device which mainly comprises a bicycle middle shaft, a rear shaft sleeve, a flywheel, a thigh and a chain, wherein, the flywheel is connected on the middle shaft of the bicycle, the bicycle thigh is connected on the flywheel connected with the middle shaft, the rear shaft of the bicycle is provided with a chain wheel, the flywheel is drive engaged with the chain through the chain wheel. The utility model has the beneficial effect of 20 percent to 30 percent force increasing with the current bicycle of various types provided with the bicycle energizing device, and simultaneously increased endurance and bearing of the bicycle. The bicycle with the energizing device wins people's favorite on account of the labor saving, thereby reducing the use of other vehicles with the corresponding saved energy and reduced pollution. The bicycle energizing device can be utilized for the manual tricycle, manual **vehicle for the disabled** or the like.

Classifications:

International (IPC 8-9): B62M9/02 (Advanced/Invention);

B62M9/00 (Core/Invention)

International (IPC 1-7): B62M9/02

Family:

Publication number	Publication date	Application number	Application date
 CN2611284 Y	20040414	CN20032042638U	20030328

Priority:

CN20032042638U 20030328

Probable Assignee:

CHANG QUANLIANG

Assignee(s): (std):

CHANG QUANLIANG

Inventor(s): (std):

CHANG QUANLIANG

Inventor(s):

QUANLIANG CHANG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN2611284 Y	20040414	LSGT	+	granted / extensions (spc, cpc, pte)	
CN2611284 Y	20040414	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN2611284 Y	20070523	LSLE	-C19	LAPSE OF PATENT RIGHT DUE TO NON-PAYMENT OF THE ANNUAL FEE	
CN2611284 Y	20130328	PEXP		Calculated Patent Term Expiry	

Title: VEHICLE FOR THE DISABLED

Abstract: In a vehicle intended for the disabled and having a three-wheel chassis (13), a seat (21) arranged therein, and an electrical drive unit (14), the seat (21) is held by a seat frame (20) which can be swivelled in the chassis (13) about a horizontal swivel axis (25) extending transverse to the direction of travel. This arrangement makes it possible to swivel the seat (21) into an upper end position so as to allow the user to get in and out with comfort, and also makes it possible to swivel the seat (21) into a lower end position in order to obtain as low as possible a centre of gravity for safe driving.

Classifications:

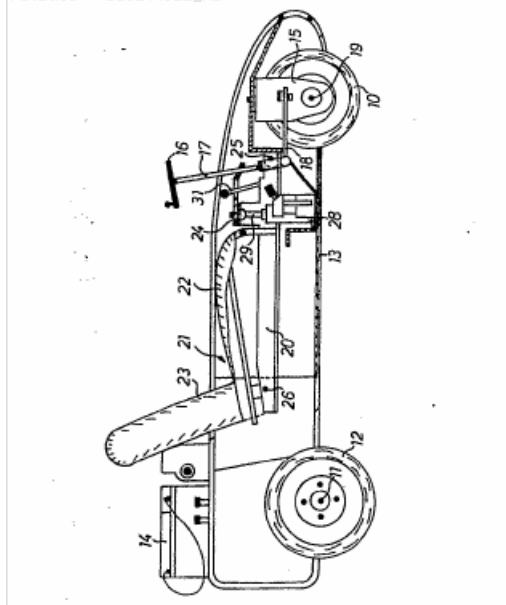
International (IPC 8-9): A61G5/04 B60N2/10 (Advanced/Invention);
A61G5/00 B60N2/10 (Core/Invention)

International (IPC 1-7): A61G5/04 B60N1/02

CPC: A61G5/14 A61G5/045 A61G5/1051 B60N2/10

European: A61G5/04A6 A61G5/14 B60N2/10 K61G5/10G

PatBase - DE3244922_A1

**Family:**

Publication number	Publication date	Application number	Application date
DE3244922 A1	19840607	DE19823244922	19821204

Priority:

DE19823244922 19821204

Probable Assignee:

ELBERS BERNHARD

Assignee(s): (std):

ELBERS BERNHARD

Inventor(s): (std):

ELBERS BERNHARD

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE3244922 A1	19840607	LSPB	+	published / reissued	
DE3244922 A1	19840927	LSES	+8101	REQUEST FOR EXAMINATION AS TO NOVELTY	
DE3244922 A1	19850124	LSES	+8105	SEARCH REPORT AVAILABLE	
DE3244922 A1	19850131	LSES	+8105	SEARCH REPORT AVAILABLE	
DE3244922 A1	19891207	LSLE	-8139	DISPOSAL/NON-PAYMENT OF THE ANNUAL FEE	

Title: VEHICLE FOR THE DISABLED

Abstract: In a vehicle for the disabled, comprising means for accommodation of a wheelchair as a vehicle seat, two support rails are preferably provided in the region of the vehicle bottom, which rails can be extended linearly in the direction of the transverse axis of the vehicle. The wheelchair is provided with supporting surfaces under which the support rails engage. The driver's seat in the wheelchair can be adjusted in height and can be lowered down to ground level.

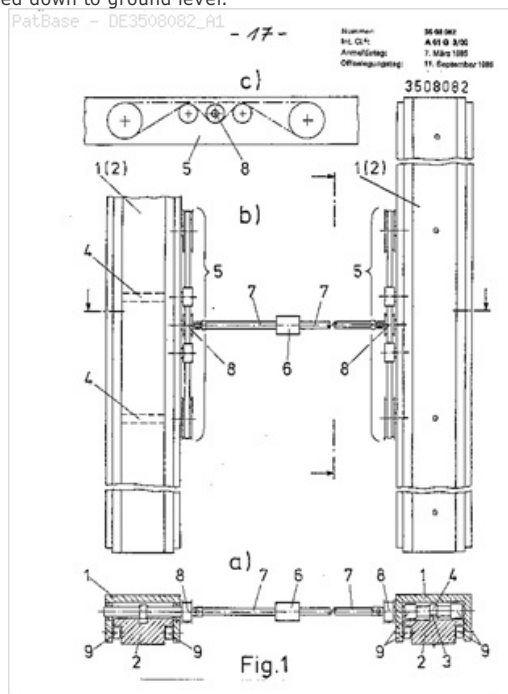
Classifications:

International (IPC 8-9): A61G3/06 (Advanced/Invention);
A61G3/00 (Core/Invention)

International (IPC 1-7): A61G3/00 B60P1/38

CPC: A61G3/063

European: A61G3/06

**Family:**

Publication number	Publication date	Application number	Application date
DE3508082 A1	19860911	DE19853508082	19850307
DE3508082 C2	19890223	DE19853508082	19850307

Priority:

DE19853508082 19850307

Probable Assignee: BATTELLE INST E V

Assignee(s): (std): BATTELLE INST E V ; BATTELLE INSTITUT E V

Assignee(s): BATTELLE INSTITUT EV 6000 FRANKFURT DE ; BATTELLE INST EV ; BATTELLE INST EV 6000 FRANKFURT DE

Inventor(s): (std): ROWOLD KARL JOACHIM ING GRAD ; GUENTHER WILLI

Inventor(s): GUENTHER WILLI 6000 FRANKFURT DE ; JOACHIM ING ROWOLD KARL ; ROWOLD KARL JOACHIM ING GRAD 6382 FRIEDRICHSORF ; ROWOLD KARL JOACHIM ING GRAD 6382 FRIEDRICHSORF DE ; ROWOLD KARL JOACHIM ING GRAD 6382...

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Patent	Date recorded	Event group	Code	Event	Details
DE3508082 A1	19860911	LSPB	+	published / reissued	
DE3508082 A1	19860911	LSSES	+OP8	REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW	
DE3508082 C2	19890223	LSGT	+	granted / extensions (spc, cpc, pte)	
DE3508082 C2	19890223	LSGT	+D2	GRANT AFTER EXAMINATION	
DE3508082 C2	19890511	LSAS	8327	CHANGE IN THE PERSON/NAME/ADDRESS OF THE PATENT OWNER	PARTYTYPE : OWNER OWNER : BATTELLE MOTOR-UND FAHRZEUGTECHNIK GMBH, 6000 FRA
DE3508082 C2	19890817	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE3508082 C2	19940310	LSLE	-8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE	

Title: Control system, more particularly for driving motors for a **vehicle for the disabled**

Abstract: A control system, more particularly for the electric motors driving a **vehicle for the disabled**, comprising a control member for delivering a required speed signal which varies linearly with the position of the control member, a feed back control circuit for each motor, a power supply for the motor and the control circuits, the linear speed signal is compared with a signal selected, on the basis of the instantaneous speed of the motor, to form a number of signal which are stored in a memory, and for forming a control signal which does not vary linearly with the speed signal. The control signal is fed to the motor control circuit to keep the rotation of the motor constant.

Classifications:

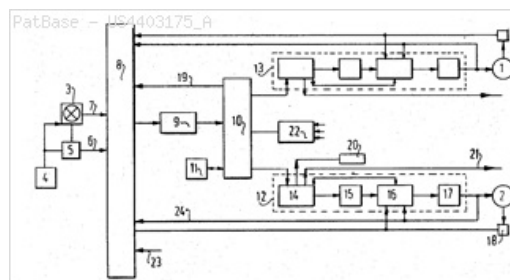
International (IPC 8-9): H02P5/68 (Advanced/Invention);
H02P5/68 (Core/Invention)

International (IPC 1-7): B60L15/04 H02P5/16 H02P7/68

CPC: H02P5/68

European: H02P5/68

US: 318/139 318/53



Family:

Publication number	Publication date	Application number	Application date
DE3120083 A1	19820325	DE19813120083	19810520
NL8002952 A	19811216	NL19800002952	19800521
US4403175 A	19830906	US19810265364	19810520

Priority:

NL19800002952 19800521

Probable Assignee: APPLIED ELECTRONICS BV

Assignee(s): (std): APPLIED ELECTRONICS BV ; INDUCTIVE CONTROL SYST

Assignee(s): INDUCTIVE CONTROL SYSTEMS B V ; INDUCTIVE CONTROL SYSTEMS BV ; INDUCTIVE CONTROL SYSTEMS
KEESOMSTRAAT 4 6717 AB E ; APPLIED ELECTRONICS A CO OF NETHERLANDS BV ; APPLIED
ELECTRONICS B V ; APPLIED ELECTRONICS B V TE EDE

Inventor(s): (std): RUUMPOL GEURT J ; RUUMPOL GEURT JOHANNES

Inventor(s): JOHANNES RUUMPOL GEURT

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE3120083 A1	19820325	LSPB	+	published / reissued	
DE3120083 A1	19840322	LSAS	8127	NEW PERSON/NAME/ADDRESS OF THE APPLICANT	PARTYTYPE : OWNER OWNER : INDUCTIVE CONTROL SYSTEMS B.V., 6716 EDE, NL
DE3120083 A1	19841115	LSWD	-8130	WITHDRAWAL	
NL8002952 A	19811216	LSPB	+	published / reissued	
NL8002952 A	19830916	LSAS	CNR	TRANSFER OF RIGHTS (PATENT APPLICATION AFTER ITS LAYING OPEN FOR PUBLIC INSPECTION)	TEXT : INDUCTIVE CONTROL SYSTEMS B.V.
NL8002952 A	19850102	LSLE	-BV	THE PATENT APPLICATION HAS LAPSED	
US4403175 A	19830906	LSGT	+	granted / extensions (spc, cpc, pte)	
US4403175 A	19810520	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : APPLIED ELECTRONICS B.V., EDE, THE NETHERLANDS, A OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:RUUMPOL, GEURT J.; REEL/FRAME:003892/0705 EFFECTIVE DATE : 19810505
US4403175 A	19830527	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : INDUCTIVE CONTROL SYSTEMS B.V., KEESOMSTRAAT 4, 67 OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST.; ASSIGNOR:APPLIED ELECTRONICS, B.V.,;

REEL/FRAME:004130/0548
EFFECTIVE DATE : 19830429

US4403175 A 19830527

LSAS

AS

ASSIGNMENT

PARTYTYPE : OWNER
OWNER : INDUCTIVE CONTROL
SYSTEMS B.V., KEESOMSTRAAT 4,
67
OLDPARTY : ASSIGNMENT OF
ASSIGNORS INTEREST;
ASSIGNOR:APPLIED
ELECTRONICS, B.V.,;
REEL/FRAME:004130/0548
EFFECTIVE DATE : 19830429

US4403175 A 19870906

LSLE

-LAPS

LAPSE FOR FAILURE TO
PAY MAINTENANCE FEES

US4403175 A 19870906

LSLE

-PEX1

Patent Expired Due to
NonPayment of
Maintenance Fees Under
37 CFR 1.362

US4403175 A 19871124

LSLE

-FP

EXPIRED DUE TO FAILURE
TO PAY MAINTENANCE FEE

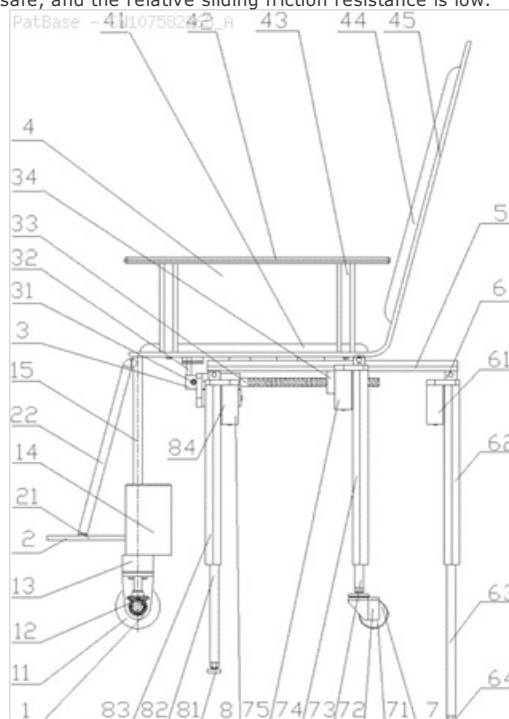
EFFECTIVE DATE : 19870906

Title: NOVEL STAIR CLIMBING VEHICLE FOR DISABLED

Abstract: The invention discloses a novel stair climbing **vehicle for the disabled**. The vehicle comprises a chair, a support, a spiral lead screw pair and a sliding rail, a lead screw of the spiral lead screw pair is supported on a lead screw support through a bearing, and the lead screw support is fixed onto a chair frame; a lead screw but is fixed onto a support frame, a lower support of the sliding rail is fastened on the upper surface of the support frame, and upper sliding blocks are fastened onto the chair frame; a pair of rear guide wheel push rod motors rotate and drive push rods to drive rear wheels to stretch so that the chair can keep a horizontal sitting posture, and four support push rod motors rotate and drive push rods to push supporting legs to retract and support the chair alternatively with the wheels so that it can be guaranteed that the chair is horizontal; a lead screw motor drives the lead screw to rotate and alternatively pushes the chair frame or the support rack to slide along semicircle grooves of the upper sliding blocks on semi-column surfaces of column guide rails which are tightly matched with the lower supporting base to achieve forward movement of the chair, front wheel driving motors rotate and drive front wheels to rotate, and thus the novel disabled vehicle for climbing stairs is driven to walk. The novel stair climbing **vehicle for the disabled** has the advantages that walking and steering are convenient and flexible, the sitting posture is stable and safe, and the relative sliding friction resistance is low.

Classifications:

International (IPC 8-9): A61G5/06 A61G5/10 (Advanced/Invention)

**Family:**

Publication number	Publication date	Application number	Application date
■ CN107582263 A	20180116	CN201710847367	20170919

Priority:

CN201710847367 20170919

Probable Assignee: UNIV DALIAN JIAOTONG

Assignee(s): (std): DALIAN JIAOTONG UNIV ; UNIV DALIAN JIAOTONG

Inventor(s): (std): CHU SHIZHAO ; SHAO WANZHEN

Legal status (INPADOC)

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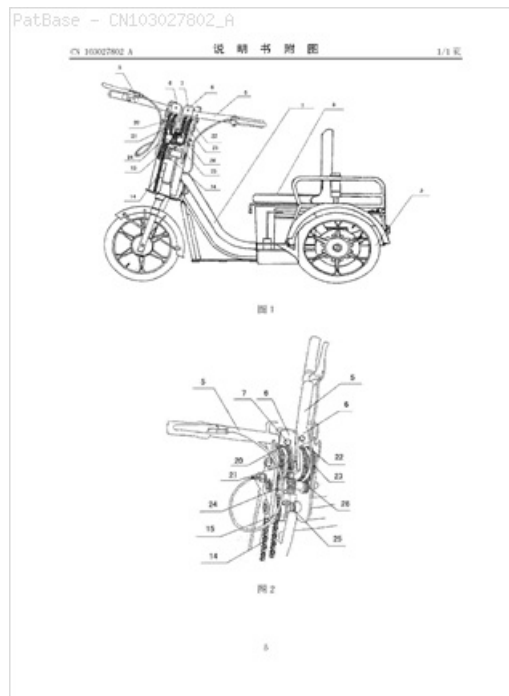
Patent	Date recorded	Event group	Code	Event	Details
CN107582263 A	20180116	LSPB	+	published / reissued	
CN107582263 A	20180116	LSPB	PB01	PUBLICATION	

Title: **VEHICLE FOR THE DISABLED** WITH BOTH HANDS DRIVING FORCE

Abstract: The invention relates to a **vehicle for the disabled** with hand driving force. The **vehicle for the disabled** with the hand driving force mainly comprises a vehicle frame (1), vehicle wheels (2), a vehicle seat (3) and a handbar. The number of the vehicle wheels is three, one vehicle wheel is arranged front, and two vehicle wheels are arranged rear. A driving force hand push rod (5) is arranged on the handbar portion, and a power transmission device is arranged nearby the driving force hand push rod (5). The power transmission device comprises that a forward gear and a reverse gear group are arranged on a shaft A, an inferior driving gear is arranged on a shaft B, and a transition gear is arranged on a shaft C. A driving force hand push rod seat (6) is arranged on the shaft A, and a driving force hand push rod drawing-in shaft (7) is arranged between the upper portion of the driving force hand push rod seat (6) and the lower portion of the driving force hand push rod (5). The hand driving force push rod and the power transmission device arranged on the upper portion of the front vehicle wheel can form the front wheel drive of the vehicle. The structure of the driving of the original vehicle is not changed, and a user is enabled to drive for a long distance and not to be tired for a long time.

Classifications:

International (IPC 8-9): A61G5/02 A61G5/10 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
 CN103027802 A	20130410	CN201110297191	20110930

Priority:

CN201110297191 20110930

Probable Assignee: XU MINGYA

Assignee(s): (std): XU MINGYA

Inventor(s): (std): XU MINGYA

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN103027802 A	20130410	LSPB	+	published / reissued	
CN103027802 A	20130410	LSPB	+C06	PUBLICATION	
CN103027802 A	20160106	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	

Title: Pedal type labor-saving vehicle

Abstract: The utility model discloses a pedal type labor-saving vehicle which comprises a vehicle head front fork, a vehicle chassis, a vehicle seat, a rear vehicle axle, a left rear wheel and a right rear wheel. A gearbox groove which is connected with a gearbox is arranged in the middle of the vehicle chassis, the gearbox is connected with left and right pedal plates, the pedal plates are respectively connected with left and right turning columns, and a stable column is inserted in a stable column sleeve; the left and right turning columns are connected with a gear 1 by an articulating shaft, a lever and a bearing fixing shaft; a gear shaft on the gearbox is respectively connected with a first jack, a second jack, a large gear 2, a large gear 3, a pinion 4, a pinion 5, a toothed small faceplate wheel 6 and a toothed large faceplate wheel; the rear vehicle axle is connected with the left and right wheels, the toothed large faceplate wheel and the toothed small faceplate wheel; and chains are sheathed on the small faceplate wheel and the large faceplate wheel. With reasonable structure and convenient using, the pedal type labor-saving vehicle lessens the pedaling force, strengthens the force of pushing the wheels to advance, reduces number of times in pedaling, increases rotating speed of the wheels, achieves the effects of high vehicle speed and less force application, and can be transformed into the **vehicle for the disabled**.

Classifications:

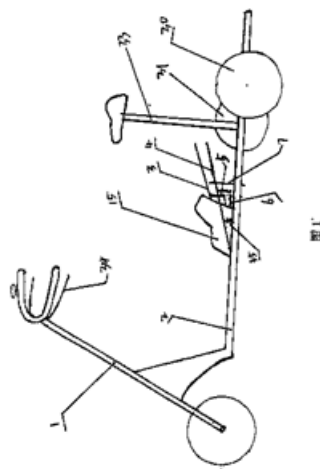
International (IPC 8-9): A61G5/00 B62M1/04 B62M1/24 B62M11/04 (Advanced/Invention)

PatBase - CN201400281_Y

说明书附图

说明书附图

第1/1页



Family:

Publication number	Publication date	Application number	Application date
■ CN201400281 Y	20100210	CN200920032244U	20090318

Priority:

CN200920032244U 20090318

Probable Assignee:

SHENGLU HU

Assignee(s): (std):

SHENGLU HU

Assignee(s):

HU SHENGLU

Inventor(s): (std):

SHENGLU HU

Inventor(s):

HU SHENGLU

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN201400281 Y	20100210	LSGT	+	granted / extensions (spc, cpc, pte)	
CN201400281 Y	20100210	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN201400281 Y	20130515	LSLE	-C17	CESSATION OF PATENT RIGHT	
CN201400281 Y	20190318	PEXP		Calculated Patent Term Expiry	

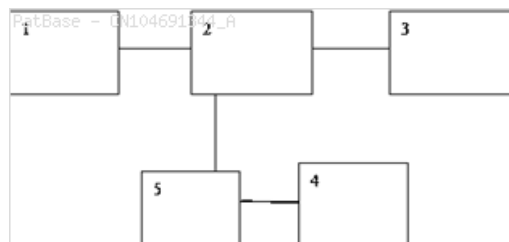
Title: ELECTRIC **VEHICLE FOR THE DISABLED**

Abstract: The invention discloses an electric **vehicle for the disabled**. The electric vehicle comprises a frame, a door, a transparent glass vehicle roof arranged on the frame, a right wheel motor, a left wheel motor, a handlebar, a steering wheel on the handlebar, a right wheel motor switch, a left wheel motor switch, a walking stick containing ring and a control handle. A solar cell panel is connected with a storage battery mounted on the frame through a wire, and the storage battery is mounted on the lower face of a vehicle seat; the left wheel motor is embedded in a left wheel hub of the frame; and a side face middle front fork and a front wheel steering gear are meshed. Electric energy is adopted by the electric **vehicle for the disabled** as a power source, and a power source is provided through the storage battery; and the electric vehicle is environmentally friendly and free of pollution. The electric vehicle is convenient to use, high in practicability, low in cost, and good in use effect, and manpower is saved.

Classifications:

International (IPC 8-9): B60L8/00 B62K5/00 (Advanced/Invention)

CPC: Y02T10/7083



Family:

Publication number	Publication date	Application number	Application date
 CN104691344 A	20150610	CN201310647272	20131206

Priority:

CN201310647272 20131206

Probable Assignee: QINGDAO JIANENG ENERGY SAVING ENVIRONMENTAL PROT TECHNOLOGY CO LTD

Assignee(s): (std): QINGDAO JIANENG ENERGY SAVING ENVIRONMENTAL PROT TECHNOLOGY CO LTD

Assignee(s): QINGDAO JIANENG ENERGY SAVING ENVIRONMENTAL PROTECTION TECHNOLOGY CO ; QINGDAO GLENCORE LTD ENERGY SAVING TECHNOLOGY

Inventor(s): (std): LI YANG

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
CN104691344 A	20150610	LSPB	+	published / reissued	
CN104691344 A	20150610	LSPB	+C06	PUBLICATION	

Abstract: Source: DE8713906U1 [DE] (Claim 1) 1. Elektro - Kleinwagen fuer Behinderte u. Senioren OberbeKennezeichnender Teil: dadurch gkennzeichnet, xennzeJehnenderrelnicht mehr ausgesetzt ist. @@

Machine translation: (Claim 1) 1 Electric - small cars for the disabled and senior citizens OberbeKennezeichnender part: this gkennzeichnet xennzeJehnenderrelnicht, more is exposed. @@

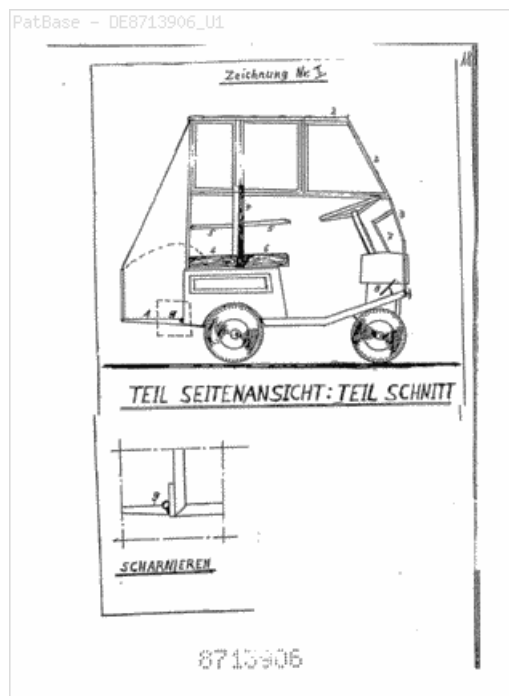
Classifications:

International (IPC 8-9): A61G5/04 B62K5/007 (Advanced/Invention); A61G5/00 (Core/Invention)

International (IPC 1-7): A61G5/04 B60R9/00 B62D63/02

CPC: B62K5/007

European: B62K5/007



Family:

Publication number	Publication date	Application number	Application date
DE8713906 U1	19880414	DE19870013906U	19871016

Priority:

DE19870013906U 19871016

Probable Assignee:

GERDES JOHANN 2950 LEER DE

Assignee(s):

GERDES JOHANN 2950 LEER DE

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
DE8713906 U1	19880414	LSGT	+	granted / extensions (spc, cpc, pte)	
DE8713906 U1	19971016	PEXP		Calculated Patent Term Expiry	

Title: SMALL VEHICLE, IN PARTICULAR FOR DISABLED PERSONS

Abstract: The small vehicle has a self-bearing body (1) which forms the chassis and the panelling, has at the front upwardly extending side parts (2a) as a leg protection for the disabled person and is made of plastic, with four wheels (5, 6) which are of equal size, have the same lateral wheel spacing and protrude laterally and at the front and rear over the base shape of the vehicle body. These four wheels (5, 6) are mounted individually suspended in the vehicle body and are each individually motor-driven. In the seating space of the vehicle body (1), a seat (35) is provided so as to be adjustable by motor in the horizontal plane. On the vehicle body (1), a weather and sun protection means (29) which is located at the top and is formed by a collapsible roof made of flexible awning is mounted in a removable fashion, and a front-side weather protection made of a preform or a flexible awning is mounted in a removable fashion at the entry point (4) to the vehicle body (1). A receptacle space for a battery, which space can be closed off by means of flap (27), is formed in at least one side wall (2) of the vehicle body (1).

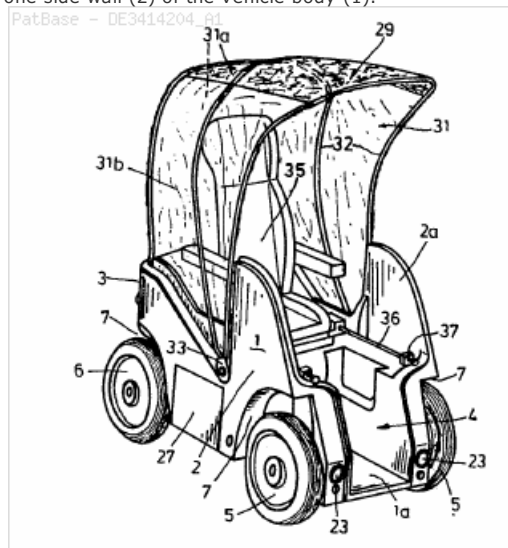
Classifications:

International (IPC 8-9): A61G5/04 (Advanced/Invention);
A61G5/10 (Advanced/Non-invention)

International (IPC 1-7): A61G3/00 A61G5/04 B62D63/02

CPC: A61G5/107 A61G5/046 A61G5/1078 A61G7/1019 A61G7/1034
A61G7/1059 A61G2203/14

European: A61G5/04A8 A61G5/10S10 K61G203/14 K61G5/10Z1
K61G7/10N6 K61G7/10P8 K61G7/10T10



Family:

Publication number	Publication date	Application number	Application date
DE3414204 A1	19851024	DE19843414204	19840414

Priority:

DE19843414204 19840414

Probable Assignee: LINDENKAMP HORST

Assignee(s): (std): LINDENKAMP HORST

Inventor(s): (std): LINDENKAMP HORST

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE3414204 A1	19851024	LSPB	+	published / reissued	
DE3414204 A1	19910411	LSLE	-8139	DISPOSAL/NON-PAYMENT OF THE ANNUAL FEE	

Title: A COMBINED DOOR AND SLOPE FOR DISABLED ELECTRIC VEHICLE

Abstract: PURPOSE: A combined rear door apparatus and slope of an electric **vehicle for the disabled** is provided to enable the disabled to easily get on/off the electric vehicle. CONSTITUTION: A combined rear door apparatus and slope of an electric **vehicle for the disabled** includes: a rear door(1) which is installed at the rear part of the vehicle and is used as a gate or slope when getting on/off; a motor controller(2) for the door operation; a motor(3) which is installed near to the controller and offers the drive power for the door; an idler(4) which is installed to a shaft of the motor and arranges the wire by rolling up; a wire(5) which interlinks the door and motor and is used to open and shut the door; and a pulley(6) which is used to help the smooth movement of the wire.

Classifications:

International (IPC 8-9): A61G3/02 A61G3/08 A61G5/04 B60L11/18 (Advanced/Invention);

A61G3/00 A61G5/00 B60L11/18 (Core/Invention)

CPC: Y02T10/7005 A61G3/0808 A61G3/061 A61G2203/10

European: Y02T10/70B



Family:

Publication number	Publication date	Application number	Application date
 KR20100091699 A	20100819	KR20090011015	20090211

Priority:

KR20090011015 20090211

Probable Assignee:

WON JUN HEE

Assignee(s): (std):

WON JUN HEE

Inventor(s): (std):

WON JUN HEE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
KR20100091699 A	20100819	LSPB	+	published / reissued	
KR20100091699 A	20090211	LSES	A201	REQUEST FOR EXAMINATION	
KR20100091699 A	20101130	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20100091699 A	20110303	LSRV	-E601	DECISION TO REFUSE APPLICATION	
KR20100091699 A	20110318	LSRV	-E601	DECISION TO REFUSE APPLICATION	

Title: LIFTING EQUIPMENT FOR DISABILITIES VEHICLE

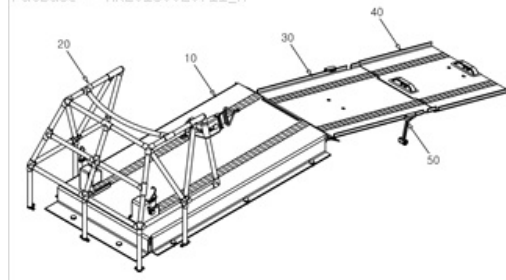
Abstract: PURPOSE: A lift apparatus for a **vehicle for the disabled** is provided to improve spatial utilization and to firmly fix a wheelchair. CONSTITUTION: A lift apparatus for a **vehicle for the disabled** comprises a fixing plate(10) which is formed with a guide groove on the lower side, a wheelchair fixing unit(20) which is fixed to a vehicle, a boarding plate body(30) which is inserted into the guide groove of the fixing plate and slides from the lower side of fixing plate, a second boarding plate body(40) which is folded and unfolded, and a supporter(50) which supports the first boarding plate body.

Classifications:

International (IPC 8-9): A61G3/06 A61G3/08 (Advanced/Invention)

CPC: A61G3/061 A61G3/067 A61G3/0808 B60P1/431 B60P1/433

PatBase - KR20130020711_A



Family:

Publication number	Publication date	Application number	Application date
KR101424388 B1	20140915	KR20130012094	20130202
KR20130020711 A	20130227	KR20130012094	20130202

Priority:

KR20130012094 20130202

Probable Assignee: LEE EON HO

Assignee(s): (std): LEE EON HO

Inventor(s): (std): LEE EON HO ; LEE HYUNG SUK ; PARK SOON SANG ; SHIN CHANG BUM

Legal status (INPADOC)

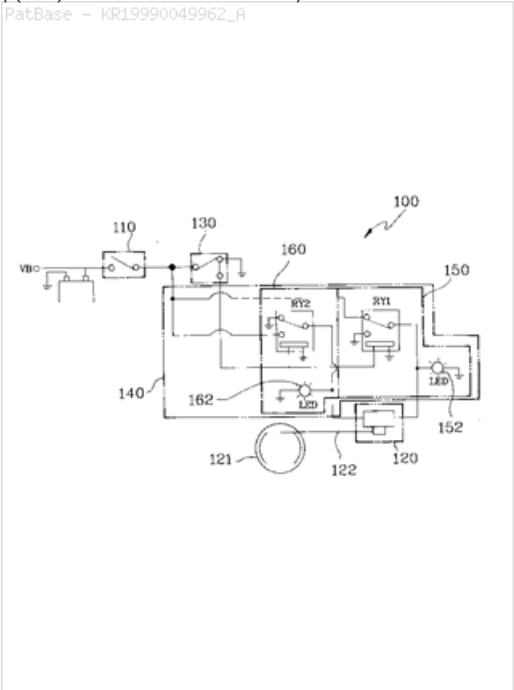
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Patent	Date recorded	Event group	Code	Event	Details
KR101424388 B1	20140915	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101424388 B1	20130202	LSES	A201	REQUEST FOR EXAMINATION	
KR101424388 B1	20140220	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR101424388 B1	20140716	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR101424388 B1	20170719	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20170719 YEAR OF FEE PAYMENT : 4
KR101424388 B1	20330202	PEXP		Calculated Patent Term Expiry	
KR20130020711 A	20130227	LSPB	+	published / reissued	

Title: APPARATUS FOR OPERATING A PARKING BRAKE OF A **VEHICLE FOR THE DISABLED**, ESPECIALLY FOR OPERATING A PARKING BRAKE BY SELECTIVELY OPERATING A DC MOTOR THROUGH A CENTER OPERATING PART

Abstract: PURPOSE: An apparatus for operating a parking brake of a **vehicle for the disabled** is provided to simply operate a parking brake for a right hand disabled driver and to lock or release rear wheels by operating an operating switch and a center operating part, and operating a DC motor. CONSTITUTION: An apparatus for operating a parking brake of a **vehicle for the disabled** comprises: a power applying part(110) installed with a power switch; a driving part(120) connected to rear wheels by cables and installed with a DC motor; an operating part(130) for operating or releasing the side brake; and a center operating part(140) for selectively operating the DC motor. The center operating part includes a first relay switch(RY1) connected to the DC motor of the driving part, an operating medium unit(150) placed with an operating lamp(152) between the first relay switch and the DC motor, a second relay switch(RY2) electrically connected to the operating part of the power applying part and connected to the motor, and a releasing medium unit(160) installed with a releasing lamp(162) between the second relay switch and the motor.

Classifications:
International (IPC 8-9): B60T7/00 (Advanced/Non-invention)
International (IPC 1-7): B60T7/00



Family:

Publication number	Publication date	Application number	Application date
KR19990049962 A	19990705	KR19970068974	19971216

Priority:

KR19970068974 19971216

Probable Assignee: DAEWOO MOTOR CO LTD
Assignee(s): DAEWOO MOTOR CO LTD
Inventor(s): MUN GYEONG CHEOL

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
KR19990049962 A	19990705	LSPB	+	published / reissued	

Title: VORRICHTUNG ZUM ABSTANDSHALTEN

Abstract: Source: DE202014008330U1 [DE] Vorrichtung (1) zum Abstandhalten gegenueber einem geparkten Fahrzeug, umfassend: ein Mittel zum Abstandsmessen (2) gegenueber einem benachbarten Fahrzeug, ein Mittel zum Signalisieren (3) an ein einparkendes Fahrzeug, dass ein geparktes Fahrzeug einen vergroesserten, vorgegebenen Abstand benoetigt, mit einem Empfaengermittel fuer Signale (4) des Mittels zum Abstandsmessen (2), ein Praesentationsmittel (5), insbesondere eine Tafel, ein Mittel zum Befestigen (6) des Praesentationsmittels (5) an dem geparkten Fahrzeug.

Classifications:

International (IPC 8-9): B60Q1/50 (Advanced/Invention)

CPC: B60Q1/50 B60Q1/268 B60Q1/48



Family:

Publication number	Publication date	Application number	Application date
DE102014014652 A1	20160414	DE201410014652	20141008
DE202014008330 U1	20150226	DE201420008330U	20141008

Priority:

DE201410014652 20141008 DE201420008330U 20141008

Probable Assignee: FREUND ACHIM

Assignee(s): (std): FREUND ACHIM

Assignee(s): FREUND

Inventor(s): (std): FREUND ACHIM

Legal status (INPADOC)

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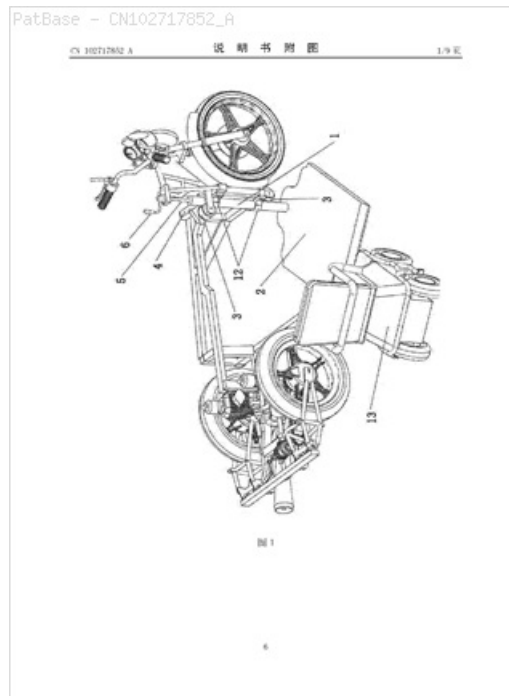
Patent	Date recorded	Event group	Code	Event	Details
DE102014014652 A1	20160414	LSPB	+	published / reissued	
DE202014008330 U1	20150226	LSGT	+	granted / extensions (spc, cpc, pte)	
DE202014008330 U1	20150226	LSGT	R207	UTILITY MODEL SPECIFICATION	EFFECTIVE DATE : 20150226
DE202014008330 U1	20171019	LSGT	+R150	TERM OF PROTECTION EXTENDED TO 6 YEARS	
DE202014008330 U1	20241008	PEXP		Calculated Patent Term Expiry	

Title: VEHICLE WITH ROTATING LIFTING PLATFORM

Abstract: A vehicle with a rotating lifting platform belongs to the technical field of **vehicles for the disabled**. The existing special **vehicle for the disabled** and an electric wheel chair can not meet requirements of lower limb disabled people for going out. A journey that the special **vehicle for the disabled** can not walk through should be continued by the electric wheel chair so as to solve difficulty of going out of the lower limb disabled people effectively and ideally. A problem of how to get the bulky electric wheel chair on the special **vehicle for the disabled** remains. The technical scheme includes some technical measures which mainly include that the lifting platform is connected onto a frame movably, and a power device is installed between the frame and a column or between a protecting support and the column.

Classifications:

International (IPC 8-9): A61G3/04 B62K7/00
B62K7/04 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN102717852 A	20121010	CN201210225224	20120701
CN102717852 B	20141105	CN201210225224	20120701
CN202670002 U	20130116	CN201220316100U	20120701

Priority:

CN201210225224 20120701 CN201220316100U 20120701

Probable Assignee: HU DAGUANG

Assignee(s): (std): DAGUANG HU ; HU DAGUANG

Inventor(s): (std): HU DAGUANG ; DAGUANG HU

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN102717852 A	20121010	LSPB	+	published / reissued	
CN102717852 A	20121010	LSPB	+C06	PUBLICATION	
CN102717852 B	20141105	LSGT	+	granted / extensions (spc, cpc, pte)	
CN102717852 B	20141105	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN102717852 B	20151028	LSAS	C41	TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL	
CN102717852 B	20160420	LSAS	C41	TRANSFER OF PATENT APPLICATION OR PATENT RIGHT OR UTILITY MODEL	
CN102717852 B	20320701	PEXP		Calculated Patent Term Expiry	
CN202670002 U	20130116	LSGT	+	granted / extensions (spc, cpc, pte)	
CN202670002 U	20130116	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN202670002 U	20150819	LSRV	-EXPY	TERMINATION OF PATENT RIGHT OR UTILITY MODEL	

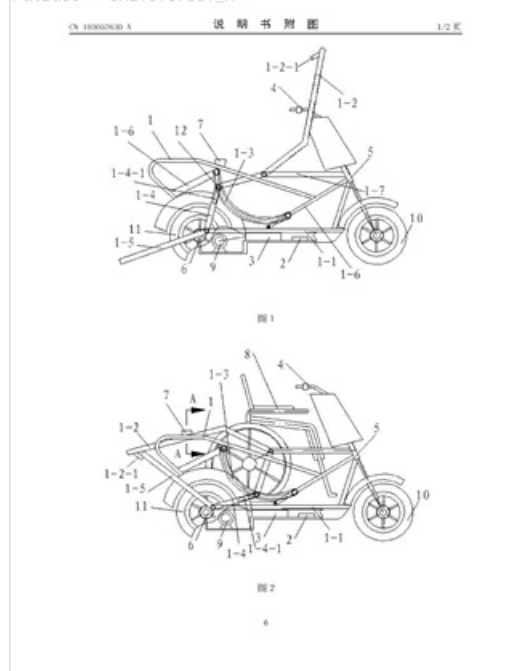
Title: ELECTRIC BICYCLE FOR THE DISABLED

Abstract: The invention discloses an electric bicycle for the disabled. The electric bicycle for the disabled comprises a frame, a controller, a battery case component, a steering handle, a steering mechanism, a hub motor, a front wheel and a rear wheel. The hub motor is connected with the rear wheel. The front wheel and the rear wheel are connected with the front and rear ends of the frame respectively. The steering handle is connected with the steering mechanism. The steering mechanism is connected with the frame. The controller and the battery case component are fixedly connected with the frame. The electric bicycle for the disabled is characterized in that the frame is further provided with a holding plate, an upper rocker, a slide rail, a lower rocker with an elongated hole and a ground plate, the other end of the lower rocker is fixedly connected with the ground plate, the connection of the rocker with the ground plate is hinged to the holding plate, and the other end of the upper rocker is provided with a hook. After the upper rocker is rotated, the hook of the upper rocker hooks the ground plate. A range extender is fixedly connected to the frame and is also connected with the battery case component. The electric bicycle for the disabled allows the disabled to push a wheelchair to board and is higher in cruising ability.

Classifications:

International (IPC 8-9): B62K5/007 B62K5/025 (Advanced/Invention)

PatBase - CN103057630_A



Family:

Publication number	Publication date	Application number	Application date
■ CN103057630 A	20130424	CN201310000829	20130104
■ CN103057630 B	20150325	CN201310000829	20130104
■ CN203032830 U	20130703	CN201320001001U	20130104

Priority:

CN201310000829 20130104 CN201320001001U 20130104

Probable Assignee: CHANGZHOU KINDER MACHINERY IND CO LTD

Assignee(s): (std): CHANGZHOU JINDA TECHNOLOGY IND CO LTD ; CHANGZHOU KINDER MACHINERY IND CO LTD

Assignee(s): CHANGZHOU JINDA TECHNOLOGY IND CO ; CHANGZHOU KINDER MACHINERY IND CO

Inventor(s): (std): ZHAO BAOLIN ; ZHOU YUAN

Legal status (INPADOC)

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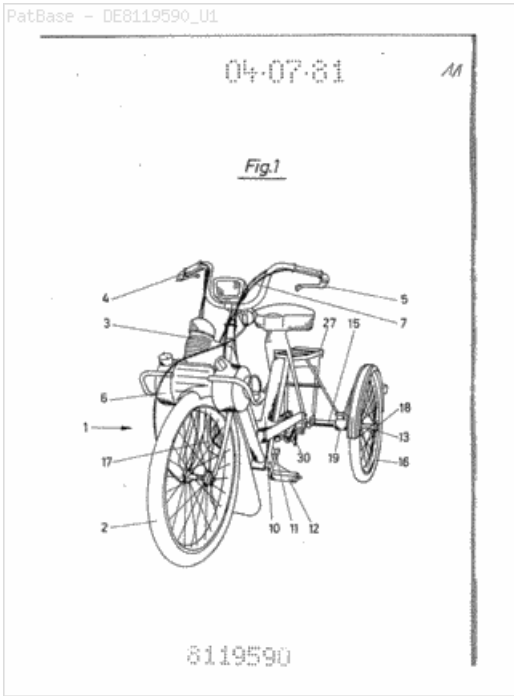
Patent	Date recorded	Event group	Code	Event	Details
CN103057630 A	20130424	LSPB	+	published / reissued	
CN103057630 A	20130424	LSPB	+C06	PUBLICATION	
CN103057630 B	20150325	LSGT	+	granted / extensions (spc, cpc, pte)	
CN103057630 B	20150325	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN103057630 B	20330104	PEXP		Calculated Patent Term Expiry	
CN203032830 U	20130703	LSGT	+	granted / extensions (spc, cpc, pte)	
CN203032830 U	20130703	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN203032830 U	20150325	LSWD	-RGAV	ABANDON PATENT RIGHT TO AVOID REGRANT	
CN203032830 U	20230104	PEXP		Calculated Patent Term Expiry	

Title: KLEINKRAFTRAD FUER BEHINDERTE Moped FOR DISABLED PEOPLE (Machine translation)

Abstract: Source: DE8119590U1 [DE] (Claim 1) Kleinkraftrad fuer Behinderte S c 1. Fahrzeug, insbesondere Kleinkraftrad oder Mofa fuer Behinderte mit einem Motor, der eins der auf der Vorder-bzw. Hinterachse drehbaren Raeder antreibt, und zwei unabhaengig voneinander wirkenden Bremsen, d g e k e n n z e i c h n e t, dass die Hinterachse (15) verlaengert ausgebildet ist und auf den Achsenden (13,14) Hinterraeeder (16,17) in einem dem gesamten Kleinkraftrad (1) Standfestigkeit gewaehrleistenden Abstand angeordnet sind.

Machine translation: (Claim 1) Moped for Disabled S c 1 Vehicle, especially a moped or scooter for the disabled with an engine on one of the front or. Rear axle rotating wheels drives, and two independently-acting brakes, dgekennzeichnet that the rear axle (15) is formed longer and on the axle ends (13,14) rear wheels (16:17) in the entire motorcycle (1) stability positioned to ensure clearance are.

Classifications:
International (IPC 8-9): B62K5/02 (Advanced/Invention);
B62K5/00 (Core/Invention)
International (IPC 1-7): B62K5/02



Family:

Publication number	Publication date	Application number	Application date
DE8119590 U1	19811029	DE19810019590U	19810704

Priority:
DE19810019590U 19810704

Probable Assignee: KESTERMANN LUDGER 4422 AHAUS DE
Assignee(s): KESTERMANN LUDGER 4422 AHAUS DE

Legal status (INPADOC)

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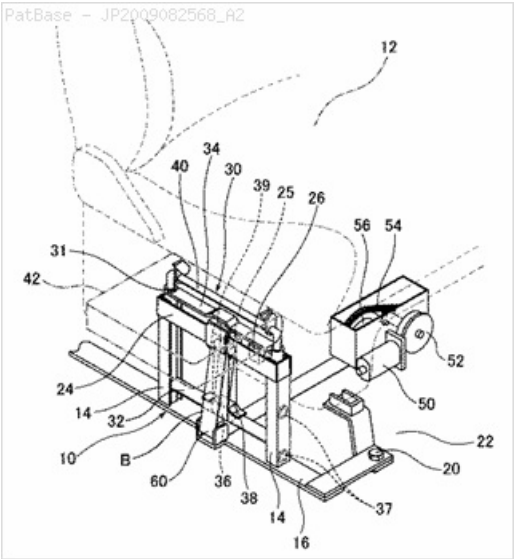
Patent	Date recorded	Event group	Code	Event	Details
DE8119590 U1	19811029	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: ASSISTIVE CHAIR FOR **VEHICLE FOR THE DISABLED**

Abstract: PROBLEM TO BE SOLVED: To provide an assistive chair for **vehicles for the disabled** allowing the disabled to easily transfer from a wheelchair to a vehicle having a chair at a high position and inversely to transfer from the vehicle having the chair at the high position to the wheelchair. SOLUTION: This assistive chair for **vehicles for the disabled** is characterized in having vertical rails vertically disposed between a vehicle seat and a door, a lifting/lowering base lifting/lowering along the vertical rails, an assistive seat journaled to the lifting/lowering base so as to rotationally turn between a horizontal outward direction and a vertically upward direction, a lifting/lowering drive part lifting/lowering the lifting/lowering base along the vertical rails and having a lift stop position at the same positions to the height positions of the vehicle seat and the assistive seat, and a lifting/lowering operation part for operating the lifting/lowering drive part.

Classifications:

International (IPC 8-9): A61G3/00 B60N2/24
B60N2/30 (Advanced/Invention);
A61G3/00 B60N2/24 B60N2/30 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
JP2009082568 A2	20090423	JP20070257828	20071001

Priority:

JP20070257828 20071001

Probable Assignee: NISSHIN JIDOSHA KOGYO KK

Assignee(s): (std): NISSHIN JIDOSHA KOGYO KK

Inventor(s): (std): KAMEDA FUJIO

Agent(s): KUMAKURA YOSHIO; INO SARI; MURAKOSO HIROO; SHISHIDO KAICHI; DESHIMARU TAKESHI; OHTSUKA FUMIAKI

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
JP2009082568 A2	20090423	LSPB	+	published / reissued	

Title: VEHICLE FOR DISABLED (Machine translation)

Abstract: Source: RU153154U **Machine translation:** The **vehicle for the disabled**, comprising a wheelchair comprising a base frame, a chair with a back, front and rear wheels, a mobile ramp, consisting of a guide, the length greater than the distance between the front and rear wheels of the wheelchair, mounted at the back of the wheelchair and when overcoming obstacles - before the front wheels, characterized in that the mobile ramp comprises guides for the right and left wheels, made in the form of at least two sections interconnected by a cylindrical joint and a resilient member mounted using telescopic struts, pivotally attached at one end on each of the sections, and the other - in the on-axis rotation of the support frame with the possibility of fixing a wheelchair or on his back.

Classifications:

International (IPC 8-9): A61G5/00 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
 RU153154 U1	20150710	RU20140154593U	20141231

Priority:

RU20140154593U 20141231

Probable Assignee: FEDERAL STATE INSTITUTION OF HIGHER PROFESSIONAL EDUCATION VOLGOGRAD STATE TECHNICAL UNIV VSTU

Assignee(s): FEDERAL STATE INSTITUTION OF HIGHER PROFESSIONAL EDUCATION VOLGOGRAD STATE TECHNICAL UNIV VSTU ; FEDERAL STATE INSTITUTION OF HIGHER PROFESSIONAL EDUCATION VOLGOGRAD STATE TECHNICAL UNIV VSTU RU

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
RU153154 U1	20150710	LSGT	+	granted / extensions (spc, cpc, pte)	
RU153154 U1	20170915	LSLE	-MM1K	UTILITY MODEL HAS BECOME INVALID (NON-PAYMENT OF FEES)	EFFECTIVE DATE : 20170101
RU153154 U1	20221231	PEXP		Calculated Patent Term Expiry	

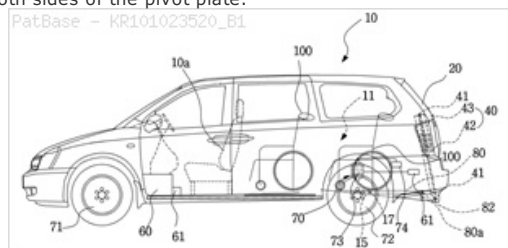
Title: CAR FOR PHYSICALLY HANDICAPPED PERSON

Abstract: PURPOSE: A **vehicle for the disabled** is provided to load a plurality of wheelchairs and to safely fix the wheelchairs inside the vehicle while a disabled person riding a wheelchair. CONSTITUTION: A **vehicle for the disabled** comprises: a vehicle body(10) which is equipped with a driver's seat, a passenger seat, and a space part for loading a plurality of wheelchairs; an elevating plate(40) consisting of a first plate and a second plate; and a height controller(70) equipped with an air compressor. In the floor of the space part of the vehicle body, a plurality of fixing members equipped with a plurality of fixing grooves are installed. An incline is formed in the rear floor of the vehicle body. Jaws are formed in both sides of the incline. A pivot plate(80) is pivotally installed on the incline. A pivot fixing unit(80a) is installed in both sides of the pivot plate.

Classifications:

International (IPC 8-9): A61G3/06 A61G3/08 B60P1/43 B60P3/00 (Advanced/Invention)

CPC: A61G3/061 A61G3/067 B60P1/04 B60P1/433



Family:

Publication number	Publication date	Application number	Application date
■ KR101023520 B1	20110321	KR20100080184	20100819

Priority:

KR20100080184 20100819

Probable Assignee: CHANG LIM IND CO LTD

Assignee(s): (std): CHANG LIM IND CO LTD ; CHANG LIM INDUSTRY CO LTD ; KIM JONG KIE

Assignee(s): CHANG LIM INDUSTRY CO ; CHANG LIM IND CO

Inventor(s): (std): PARK SUNG KWON ; KIM JONG KIE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
KR101023520 B1	20110321	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101023520 B1	20100819	LSSES	A201	REQUEST FOR EXAMINATION	
KR101023520 B1	20100819	LSSES	A302	REQUEST FOR ACCELERATED EXAMINATION	
KR101023520 B1	20101028	LSSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR101023520 B1	20110124	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR101023520 B1	20110311	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR101023520 B1	20140213	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20140213 YEAR OF FEE PAYMENT : 4
KR101023520 B1	20150227	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20150227 YEAR OF FEE PAYMENT : 5
KR101023520 B1	20160311	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20160311 YEAR OF FEE PAYMENT : 6
KR101023520 B1	20170313	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20170313 YEAR OF FEE PAYMENT : 7
KR101023520 B1	20180312	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20180312 YEAR OF FEE PAYMENT : 8
KR101023520 B1	20300819	PEXP		Calculated Patent Term Expiry	

Title: ELECTRIC DISABILITY VEHICLE

Abstract: The invention discloses an electric disability vehicle, relates to low-speed transport means specially used by the disability for going to a street to buy food and going to schools to pick up children. The electric disability vehicle is formed by taking an electric two-wheeler as a basis and additionally arranging a sidecar.

Classifications:

International (IPC 8-9): B62K11/00 B62K27/00
B62K5/027 (Advanced/Invention)

PatBase - CN102765447_A

说明书附图 1/3 页

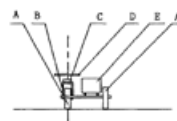


图 1

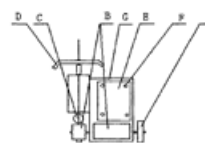


图 2

Family:

Publication number	Publication date	Application number	Application date
■ CN102765447 A	20121107	CN201210234145	20120629
■ CN202966520 U	20130605	CN201220322781U	20120629

Priority:

CN201210234145 20120629 CN201220322781U 20120629

Probable Assignee: BEIJING KESHI MEDICAL IMAGE TECHNOLOGY INST

Assignee(s): (std): BEIJING KESHI MEDICAL IMAGE INST OF TECHNOLOGY ; BEIJING KESHI MEDICAL IMAGE TECHNOLOGY INST ; BEIJING KESHI SCIENTIFIC MEDICAL IMAGING TECHNOLOGIES INST

Assignee(s): BEIJING KESHI MEDICAL IMAGE TECHNOLOGY INSTITUTE

Inventor(s): (std): WU YOUZHI ; YOUZHI WU

Legal status (INPADOC)

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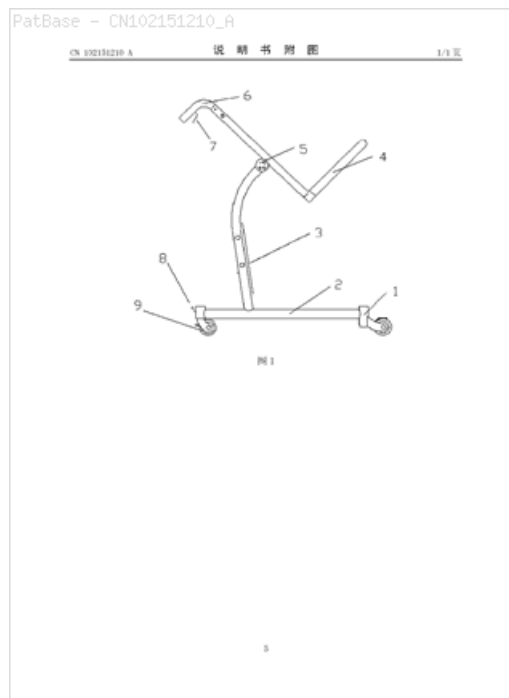
Patent	Date recorded	Event group	Code	Event	Details
CN102765447 A	20121107	LSPB	+	published / reissued	
CN102765447 A	20121107	LSPB	+C06	PUBLICATION	
CN102765447 A	20171031	LSDW	-WD01	INVENTION PATENT APPLICATION DEEMED WITHDRAWN AFTER PUBLICATION	
CN202966520 U	20130605	LSGT	+	granted / extensions (spc, cpc, pte)	
CN202966520 U	20130605	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN202966520 U	20220629	PEXP		Calculated Patent Term Expiry	

Title: Indoor moving **vehicle for the disabled**

Abstract: The invention discloses an indoor moving **vehicle for the disabled**, which is mainly characterized in that: the front of a chassis is connected with a height adjustable front universal wheel; the rear of the chassis is connected with a universal rear wheel capable of braking, which is provided with a front universal wheel height adjusting pedal button; the middle of the chassis is connected with a knee protection plate which is provided with a seat cushion position controller and connected with an overturning seat cushion; a leaning end of the overturning seat cushion is connected with an armrest capable of moving downwards; the armrest capable of moving downwards is connected with a seat cushion position adjusting handle; and the mechanisms are assembled integrally. The indoor moving **vehicle for the disabled** is reasonable in design, convenient to use, flexible in running and freely operated.

Classifications:

International (IPC 8-9): A61G5/06 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN102151210 A	20110817	CN201010591937	20101216

Priority:

CN201010591937 20101216

Probable Assignee: TIANJIN XINCHENG NEW SCIENCE TRADE CO LTD
Assignee(s): (std): TIANJIN XINCHENG NEW SCIENCE TRADE CO LTD
Assignee(s): TIANJIN XINCHENG NEW SCIENCE TRADE CO
Inventor(s): (std): GUOLIAN ZHANG ; HETING WANG
Inventor(s): WANG HETING ; ZHANG GUOLIAN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN102151210 A	20110817	LSPB	+	published / reissued	
CN102151210 A	20110817	LSPB	+C06	PUBLICATION	
CN102151210 A	20140806	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	

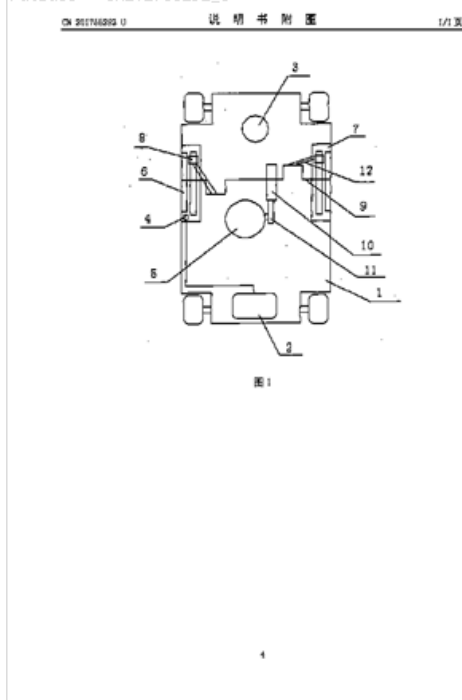
Title: POWERED VEHICLE FOR DISABLED

Abstract: The utility model discloses a powered **vehicle for the disabled**, which comprises a vehicle body and a motor, wherein a steering wheel is installed at the front end of the vehicle body and is connected to a front axle; a rear axle is connected to the motor; and the motor is connected to a switch; a seat is rotationally installed at the upper end of the middle part of the vehicle body; support frames are installed on two sides of the upper end of the middle part; armrests are installed at the upper ends of the support frames, and are provided with through grooves at the middle parts; handlebars capable of moving back and forth are installed in the through grooves; the switch of the motor is installed on the armrests; a rotating shaft is rotationally installed between the support frames on the two sides and is sleeved with a master gear; the master gear is connected to the seat through a driven gear; the handlebars are connected to a rotating shaft through a connecting rod. The utility model adopts the structural mode that since the handlebars are installed on the armrests and are connected to the rotating shaft, so as to drive a seat to rotate, the waist of a disabled person can move through hand movement, so as to realize body-building.

Classifications:

International (IPC 8-9): A61G5/04 (Advanced/Invention)

PatBase - CN201755292_U



Family:

Publication number	Publication date	Application number	Application date
 CN201755292 U	20110309	CN201020294380U	20100811

Priority:

CN201020294380U 20100811

Probable Assignee:

CHENGFU LI

Assignee(s): (std):

CHENGFU LI

Assignee(s):

LI CHENGFU

Inventor(s): (std):

CHENGFU LI

Inventor(s):

LI CHENGFU

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN201755292 U	20110309	LSGT	+	granted / extensions (spc, cpc, pte)	
CN201755292 U	20110309	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN201755292 U	20141008	LSLE	-C17	CESSATION OF PATENT RIGHT	
CN201755292 U	20200811	PEXP		Calculated Patent Term Expiry	

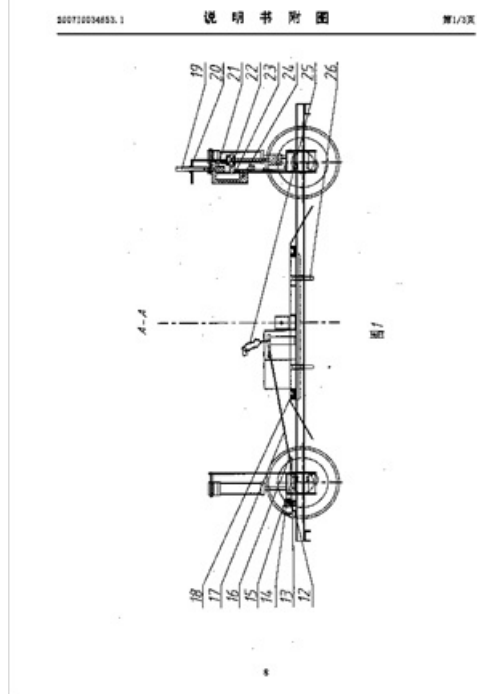
Title: Electric motor car of assisting handicapped people

Abstract: An electric **vehicle for the disabled** person is composed of a frame, 4 wheels, a power system, a console, and a pneumatic control system, a leveling system for 4 wheels, a transversely telescopic pallet-type driver cab, and an electrically controlled pneumatic steering mechanism.

Classifications:

International (IPC 8-9): B60G17/015 B62D33/06 B62D37/04 B62D51/00 B62D63/02 (Advanced/Invention)

PatBase - CN100469647_C



Family:

Publication number	Publication date	Application number	Application date
CN100469647 C	20090318	CN200710034653	20070330
CN101049839 A	20071010	CN200710034653	20070330

Priority:

CN200710034653 20070330

Probable Assignee: UNIV HUNAN AGRICULTURAL

Assignee(s): (std): HUNAN AGRICULTURAL UNIV ; HUNAN UNIV OF AGRICULTURE ; UNIV HUNAN AGRICULTURAL

Assignee(s): HUNAN AGRICULTURAL UNIVERSITY

Inventor(s): (std): JINKUI WANG ; PING JIANG ; MINGTAO XIAO ; SONGLIN SUN ; KUN JIANG ; LI JUN ; CHUZHOU TANG ; JIANG PING SUN ; FANGPING XIE ; WEI CHEN

Inventor(s): CHEN WEI ; PING SUN JIANG ; SUN SONGLIN ; JIANG PING ; JIANG KUN ; TANG CHUZHOU ; XIE FANGPING ; XIAO MINGTAO ; WANG JINKUI

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN100469647 C	20090318	LSGT	+	granted / extensions (spc, cpc, pte)	
CN100469647 C	20090318	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN100469647 C	20130522	LSLE	-C17	CESSATION OF PATENT RIGHT	
CN100469647 C	20270330	PEXP		Calculated Patent Term Expiry	
CN101049839 A	20071010	LSPB	+	published / reissued	
CN101049839 A	20071010	LSPB	+C06	PUBLICATION	

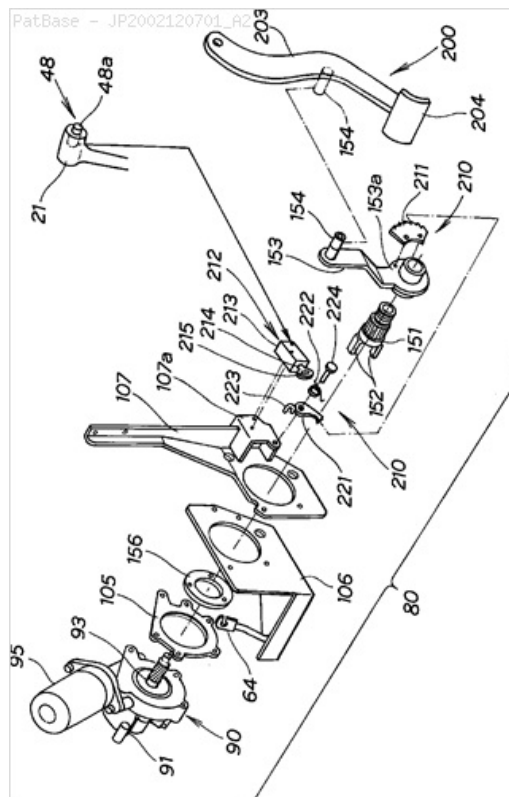
Title: VEHICLE FOR DISABLED PERSON

Abstract: PROBLEM TO BE SOLVED: To minimize power consumption of a battery at the time of brake locking. SOLUTION: This vehicle for the disabled person is constructed so that the swinging operation force of an operating lever which permits a driver sitting in a driver's seat to manually operate can be transmitted to a brake pedal 200 via a brake operating force transmitting mechanism, the brake pedal 200 can be locked at a desired braking position by a brake lock mechanism 210, so that auxiliary power can be added to the swinging operation force by a power assist mechanism 90 intervened in the brake operating force transmitting mechanism 80. The brake lock mechanism 210 is provided nearer to an output side than the power assist mechanism 90 among the brake operating effort transmitting mechanism 80.

Classifications:

International (IPC 8-9): B60T7/02 B60T7/06 (Advanced/Invention);
B60T7/02 B60T7/04 (Core/Invention)

International (IPC 1-7): B60T7/02 B60T7/06



Family:

Publication number	Publication date	Application number	Application date
JP2002120701 A2	20020423	JP20000312723	20001012
JP3662831 B2	20050622	JP20000312723	20001012

Priority:

JP20000312723 20001012

Probable Assignee: HONDA MOTOR CO LTD

Assignee(s): (std): HONDA MOTOR CO LTD

Assignee(s): HONDA GIKEN KOGYO KABUSHIKI KAISHA

Inventor(s): (std): ITOU NORIHIKO ; KATO YOSHIYUKI ; KOBATA TAKASHI

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
JP2002120701 A2	20020423	LSPB	+	published / reissued	
JP2002120701 A2	20040412	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20040409
JP2002120701 A2	20040609	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20040608
JP2002120701 A2	20050315	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	

JP2002120701 A2	20050323	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20050322
JP2002120701 A2	20050331	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20050324
JP2002120701 A2	20050401	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP3662831 B2	20050622	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3662831 B2	20080131	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 3
JP3662831 B2	20080205	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP3662831 B2	20090205	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP3662831 B2	20090210	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP3662831 B2	20100401	LSLE	-LAPS	CANCELLATION BECAUSE OF NO PAYMENT OF ANNUAL FEES	
JP3662831 B2	20201012	PEXP		Calculated Patent Term Expiry	

Title: CHASSIS FRAME ASSEMBLY STRUCTURE FOR ELECTRICAL VEHICLE FOR DISABLED PERSON

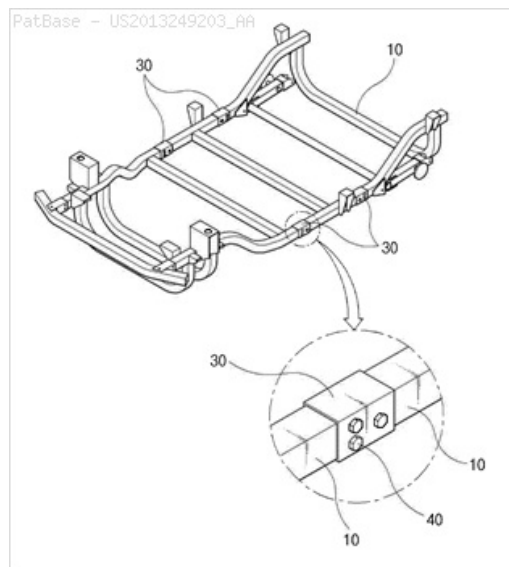
Abstract: The present invention relates to a chassis frame assembly structure for an electrical vehicle, wherein welding assembly units are formed by attachment and welding at respective portions in each of which channel-shaped frames made of aluminum and each configured to have a hollow structure are coupled. The chassis frame assembly structure includes a plurality of fastening holes formed at proper interval close to the welding assembly unit of the chassis frames; reinforcement members each configured to have a channel shape, surround the periphery of the welding assembly unit of the chassis frame, and have a plurality of assembly holes, corresponding to the respective fastening holes, formed at proper intervals in one face of the reinforcement member; and fastening members assembled with the assembly holes and the fastening holes, wherein the reinforcement member is positioned at the outside of the chassis frame.

Classifications:

International (IPC 8-9): B62D21/00 B62D21/02 B62D27/02 B62D29/00 (Advanced/Invention)

CPC: B62D27/023 B62D29/008 B62D31/003

US: 280/785



Family:

Publication number	Publication date	Application number	Application date
EP2644479 A2	20131002	EP20120002930	20120426
EP2644479 A3	20151202	EP20120002930	20120426
JP2013199258 A2	20131003	JP20120100952	20120426
JP5329692 B2	20131030	JP20120100952	20120426
KR101415897 B1	20140709	KR20120030538	20120326
KR20130108798 A	20131007	KR20120030538	20120326
US2013249203 AA	20130926	US20120464796	20120504

Priority:

KR20120030538 20120326

Probable Assignee: DUCKWONENT CO LTD

Assignee(s): (std): DUCKWONENT CO LTD ; JUNG JIN HONG

Assignee(s): DUCKWONENT CO

Inventor(s): (std): JUNG JIN HEON ; JUNG JIN HONG

Agent(s): LUSUARDI WERTHER

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
EP2644479 A2	20131002	LSPB	+	published / reissued	
EP2644479 A2	20131002	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20120426
EP2644479 A3	20151202	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : B62D 27/02 20060101AFI20151023BHEP
EP2644479 A3	20151202	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : B62D 29/00 20060101ALI20151023BHEP

EP2644479 A3	20180404	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20171103
JP2013199258 A2	20131003	LSPB	+	published / reissued	
JP5329692 B2	20131030	LSGT	+	granted / extensions (spc, cpc, pte)	
JP5329692 B2	20130701	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP5329692 B2	20130709	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20130709
JP5329692 B2	20130711	LSGT	+A01	特許査定書 Decision of patent grant	
JP5329692 B2	20130730	LSFE	R100	特許料納付書 Patent fee payment form	
JP5329692 B2	20130801	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20130724
JP5329692 B2	20130802	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP5329692 B2	20160714	LSFE	R20	特許料納付書 Patent fee payment form	
JP5329692 B2	20160719	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP5329692 B2	20170802	LSLE	-LAPS	CANCELLATION BECAUSE OF NO PAYMENT OF ANNUAL FEES	
JP5329692 B2	20320426	PEXP		Calculated Patent Term Expiry	
KR101415897 B1	20140709	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101415897 B1	20120326	LSES	A201	REQUEST FOR EXAMINATION	
KR101415897 B1	20130708	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR101415897 B1	20170701	LSLE	-LAPS	LAPSE DUE TO UNPAID ANNUAL FEE	
KR101415897 B1	20320326	PEXP		Calculated Patent Term Expiry	
KR20130108798 A	20131007	LSPB	+	published / reissued	
KR20130108798 A	20140119	LSRV	-E90F	NOTIFICATION OF REASON FOR FINAL REFUSAL	
KR20130108798 A	20140612	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR20130108798 A	20140630	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
US2013249203 AA	20130926	LSPB	+	published / reissued	
US2013249203 AA	20120504	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : DUCKWONENT CO., LTD., KOREA, REPUBLIC OF OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:JUNG, JIN HONG; REEL/FRAME:028161/0378 EFFECTIVE DATE : 20120427
US2013249203 AA	20140421	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	

Title: CLIMB STEP WHEEL CHAIR

Abstract: The present invention relates to an electric **vehicle for the disabled** climbing stairs. The electric **vehicle for the disabled** climbing stairs comprises: two caterpillars rotated by an electricity output when a power supply unit of a battery and a switch of a switch unit are switched on, wherein the two caterpillars are formed on both sides of a first main body and a second main body, and the first main body and the second main body are connected with each other by a hinge; a driving unit allowing one motor or engine driving the caterpillars to rotate the two caterpillars at a position at which an inner caterpillar and an outer caterpillar overlap with each other in the center of the two caterpillars; an upper plate formed on each of the main bodies; a control pole for maintaining the horizontality of a hydraulic, pneumatic, or rack and pinion type upper plate connecting each of the main body with the upper plate; connection control poles connected with one or two upper plates on the main bodies or three upper plates as a whole and formed at left and right sides of the connection control pole, respectively; and a driving device operated when the switch of the motor driving the connection control pole for maintaining the horizontality of the upper plate is switched on by power output when the switch of the switch unit and the power supply unit of the battery are switched on. Therefore, the electric **vehicle for the disabled** climbing stairs can maintain the horizontality by operating the hydraulic, pneumatic, or rack and pinion type connection control pole by the operation of the driving device.

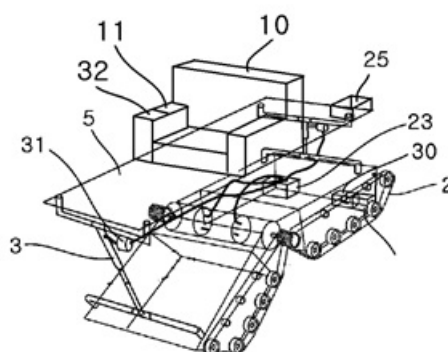
Classifications:

International (IPC 8-9): A61G5/04 A61G5/06

A61G5/10 (Advanced/Invention)

CPC: A61G5/061 A61G5/04 A61G5/066 A61G5/10

PatBase - KR20160102607_A



Family:

Publication number	Publication date	Application number	Application date
 KR20160102607 A	20160831	KR20150024878	20150223

Priority:

KR20150024878 20150223

Probable Assignee: LEE JUNG YONG

Assignee(s): (std): LEE JEONG YONG ; LEE JUNG YONG

Inventor(s): (std): LEE JEONG YONG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
KR20160102607 A	20160831	LSPB	+	published / reissued	

Title: VEHICLE

Abstract: A vehicle for transporting a person, in particular a disabled person, has a plurality of skis or other ground engaging elements for movement with respect to the ground. A support structure is provided with a seat, a support for the limbs of the vehicle user, a mechanism for steering the vehicle. A companion to the vehicle user is supported separate from the seat and from the skis, and connection element or base to which the support structure and at least one of the ground engaging elements are attached in an oscillating manner to take inclined positions with respect to the base connecting element.

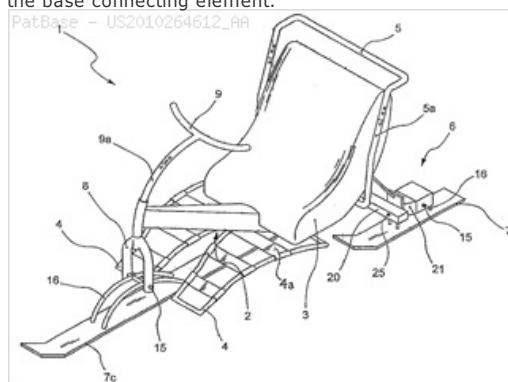
Classifications:

International (IPC 8-9): B62B13/00 B62B13/04 B62B13/08 B62B13/10 B62B13/12 B62B13/18 B62K5/04 (Advanced/Invention)

CPC: B62B13/12 B62B19/04

European: B62B13/12 B62B19/04

US: 280/16 280/87.01



Family:

Publication number	Publication date	Application number	Application date
CA2699195 AA	20101017	CA20102699195	20100408
EP2241493 A1	20101020	EP20090425145	20090417
US2010264612 AA	20101021	US20100760455	20100414

Priority:

EP20090425145 20090417

Probable Assignee: PAGANONI GIAMPIETRO

Assignee(s): (std): PAGANONI GIAMPIETRO

Inventor(s): (std): PAGANONI GIAMPIETRO

Agent(s): GISLON GABRIELE; LONNIE R DRAYER

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK TR

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2699195 AA	20101017	LSPB	+	published / reissued	
CA2699195 AA	20140603	LSLE	-FZDE	DEAD	EFFECTIVE DATE : 20140408
EP2241493 A1	20101020	LSPB	+	published / reissued	
EP2241493 A1	20111019	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20110421
US2010264612 AA	20101021	LSPB	+	published / reissued	
US2010264612 AA	20120730	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	

Title: LIGHT DUTY MINI-TYPE CARRIAGE

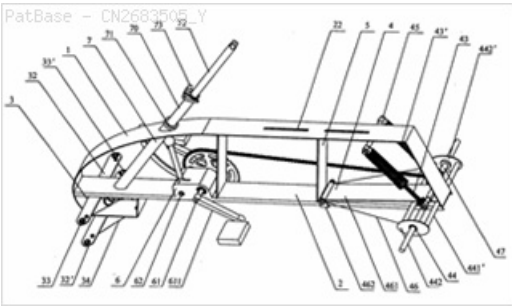
Abstract: The utility model discloses a portable minitype quadricycle, the frame of the major structure of which comprises an upper frame and a lower frame at least one side of which is planar in an upper surface or a lower surface, a master pin location adapter and an actuating shaft installation apparatus. The anterior end of the upper frame is curved downward into a round arc, and the back end is folded down into an approximate right angle which is connected with the lower frame. The master pin location adapter and the actuating shaft installation apparatus are respectively mounted on the front end and the back end of the upper frame and the lower frame. The frame of the utility model is of simple and reliable structure, simple technics and easy processing. The entire vehicle made by the utility model is cabinet and portable, which is of the size of a common bicycle. Besides the utility model is of stable and safe running and comfortable ride, which solves the problems of the existing quadricycle that the existing quadricycle patent is of complicated structure, too big volume, bulky vehicle body, higher gravity center, etc. The utility model, associated with different driving means, can be made into a minitype quadricycle, a minitype four-wheel electric vehicle, a minitype fourth wheel power assist vehiclewhich are transportation tools for the substitute of walking in both city and country, besides, the utility model can be developed into general-purpose vehicles such as an amusement vehicle, a body-building vehicle, a touring bus, and a **vehicle for the disabled**, etc.

Classifications:

International (IPC 8-9): B62K5/00 (Advanced/Invention);

B62K5/00 (Core/Invention)

International (IPC 1-7): B62K5/00



Family:

Publication number	Publication date	Application number	Application date
 CN2683505 Y	20050309	CN200320119000U	20031209

Priority:

CN200320119000U 20031209

Probable Assignee:	ZHANG XIANGYANG
Assignee(s): (std):	ZHANG XIANGYANG
Inventor(s): (std):	ZHANG XIANGYANG
Inventor(s):	XIANGYANG ZHANG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN2683505 Y	20050309	LSGT	+	granted / extensions (spc, cpc, pte)	
CN2683505 Y	20050309	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN2683505 Y	20070711	LSWD	-C25	ABANDONMENT OF PATENT RIGHT OR UTILITY MODEL TO AVOID DOUBLE PATENTING	
CN2683505 Y	20131209	PEXP		Calculated Patent Term Expiry	

Title: MOUNTING METHOD FOR LOWERING LOWER FLOOR PANEL OF DISABLED VEHICLE

Abstract: The present invention relates to a method for mounting a lower floor panel at a low position of a **vehicle for the disabled**, by adjusting positions where a rear lower arm, rear upper arm, and buffer spring that form a rear suspension are mounted without changing their configurations and shapes, thereby allowing a disabled person to conveniently and safely use the vehicle even on a common or electric wheelchair since the original configuration of the vehicle is not changed. Particularly, according to the method, when manufacturing a lower floor panel, a bump is formed on a border where a flat accommodation space adjoins an inclined surface on which a common or electric wheelchair travels, to allow the front wheels of a common or electric wheelchair to climb the bump to prevent the front wheels from being slid backward and to prevent the head of a person on the common or electric wheelchair from hitting the head lining by leaning the person forward to widen the distance between his/her head and the head lining.

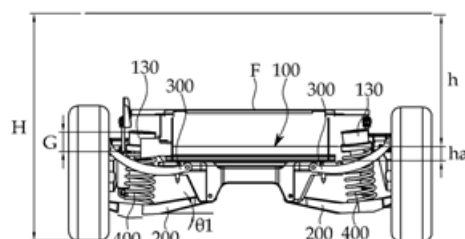
Classifications:

International (IPC 8-9): A61G3/06 B62D25/08

B62D25/20 (Advanced/Invention)

CPC: A61G3/061 B62D25/08 B62D25/20 A61G2220/14

PatBase - KR101740407_B1



Family:

Publication number	Publication date	Application number	Application date
KR101740407 B1	20170529	KR20160029286	20160311

Priority:

KR20160029286 20160311

Probable Assignee:

EASYMOVE

Assignee(s): (std):

EASYMOVE

Assignee(s):

EASY MOVE CO LTD

Inventor(s): (std):

KIM KEUN WOO ; LIM CHAE SEOK

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
KR101740407 B1	20170529	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101740407 B1	20170403	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR101740407 B1	20170522	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR101740407 B1	20360311	PEXP		Calculated Patent Term Expiry	

Title: MARKETING VEHICLE FOR HANDICAPPED PEOPLE

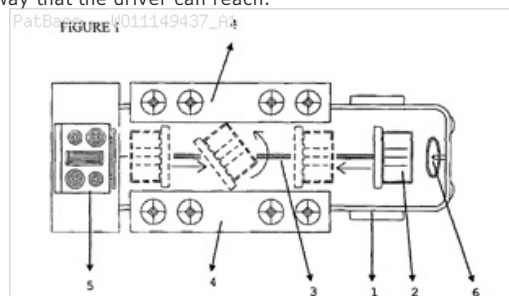
Abstract: This invention is related to a marketing tool which is designed for the use of the disabled, could be easily used with a wheelchair, crutch and similar assistance apparatus of the disabled driver. Our invention includes a swinging ramp (1) that can carry the disabled getting on the vehicle by a wheelchair (7), to the vehicle, a moving mechanism (8) that can rotate 360 degrees, by which the disabled person is transferred from the swinging ramp (1), at least one rail (3) walking within the vehicle on the aforesaid rotating moving mechanism (8), a vehicle control unit (6) positioned in front of the vehicle in a way that the disabled can reach via moving mechanism (8), a bench (4) positioned on one of the sides of the vehicle in a way that the disabled can reach via the moving mechanism (8), a kitchen unit (5) preferably positioned on the back side of the vehicle and a control unit (11) positioned on the upper part of the moving mechanism (8) in a way that the driver can reach.

Classifications:

International (IPC 8-9): A61G3/06 A61G3/08 (Advanced/Invention)

CPC: A61G3/061 A61G2220/145 B60N2/06 B60N2/14 B60N2/143 B60N2/245 B60P3/0257

European: A61G3/06A B60N2/06 B60N2/14 B60N2/14B B60N2/24C B60P3/025E K61G220/14A



Family:

Publication number	Publication date	Application number	Application date
WO11149437 A1	20111201	WO2011TR00152	20110530

Priority:

TR20100004304 20100528

Probable Assignee: KOKCU ARIFE HANIFE

Assignee(s): (std): KOKCU ARIFE HANIFE

Inventor(s): (std): KOKCU ARIFE HANIFE

Agent(s): YILDIZ MURAT

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

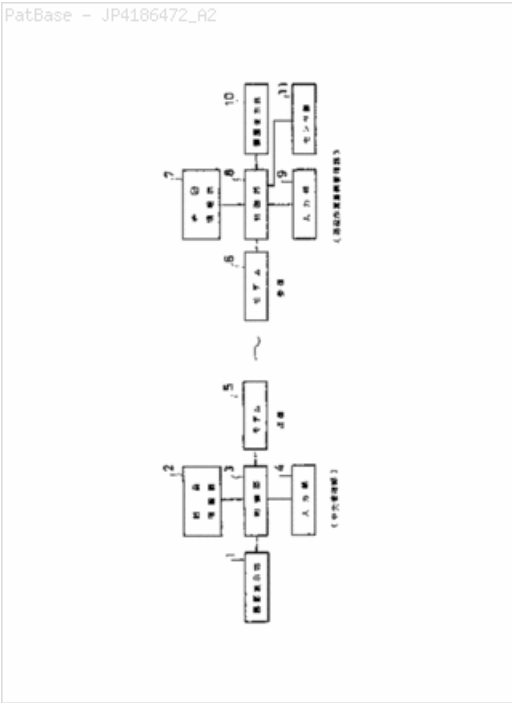
[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
WO11149437 A1	20111201	LSPB	+	published / reissued	
WO11149437 A1	20121128	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO11149437 A1	20131120	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 11743666 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :

Title: CARGO WORK MANAGING DEVICE

Abstract: PURPOSE:To execute efficient work management by recognizing the work disablement of a working vehicle on the central management part side and outputting a command for substituting another working vehicle for the disabled working vehicle. CONSTITUTION:A sensor group 11 detects a defect and inputs a defect signal to a control part 8, which displays the defect state on a screen display part 10 to inform the defect state to a worker. At the time of deciding the disablement of work execution due to the displayed defect state, the worker inputs a work disable signal from an input part 9 to the control part 8, which transmits the inputted work disable signal to a control part 3 through MODEMS 6, 5. The control part 3 displays the disablement of work on a screen display part 1. Thereby the central management part side can apply a working instruction for the disabled work to another worker. Thus efficient work management can be executed.

Classifications:
International (ipc 8-9): B65G1/00 B65G1/137
B65G43/08 (Advanced/Invention);
B65G1/00 B65G1/137 B65G43/08 (Core/Invention)
International (ipc 1-7): B65G1/00 B65G43/08 G06F15/21



Family:

Publication number	Publication date	Application number	Application date
JP4186472 A2	19920703	JP19900314175	19901121

Priority:

JP19900314175 19901121

Probable Assignee: MITSUBISHI HEAVY IND LTD
Assignee(s): (std): MITSUBISHI HEAVY IND LTD
Inventor(s): (std): FUJITA HIROTAKA ; SATO AKIRA

Legal status (INPADOC)

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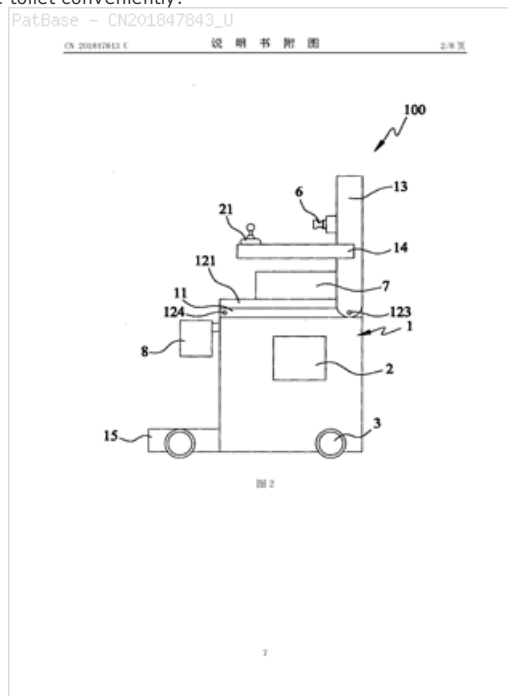
Patent	Date recorded	Event group	Code	Event	Details
JP4186472 A2	19920703	LSPB	+	published / reissued	

Title: Vehicle for disabled

Abstract: The utility model discloses **vehicle for the disabled**, which is characterized in that the **vehicle for the disabled** can ensure a user to go to the toilet on a common toilet without leaving the vehicle. The vehicle comprises a vehicle body structure, an electronic control module, a pair of first push rod mechanisms, a pair of second push rod mechanisms, a wheel group and an upper body fixing structure, wherein the vehicle body structure comprises a vehicle body bracket, a chair pad group and a back pad, wherein the chair pad group comprises a left chair pad and right chair pad which are respectively pivoted on the back pad and the vehicle body bracket; the electronic control module enables the user to operate the vehicle; the pair of the first push rod mechanisms are used for enabling the chair pad group and the back pad to be in a vertical mode; the pair of the second push rod mechanisms are used for controlling the opening and the closing of the chair pad group; the wheel group is arranged at the bottom of the vehicle body structure; the upper body fixing structure is arranged on the back pad of the vehicle body structure and used for fixing the upper body of the user; and the vehicle body structure forms a rear opening, so as to enable the vehicle to move back, enable the toilet to enter the vehicle from the rear opening of the vehicle body through and to be positioned properly below the chair pads, and enable the user to go to the toilet conveniently.

Classifications:

International (IPC 8-9): A61G5/00 A61G5/10 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
■ CN201847843 U	20110601	CN201020169299U	20100422

Priority:

CN201020169299U 20100422

Probable Assignee:

DUNJI LI

Assignee(s): (std):

DUNJI LI

Assignee(s):

LI DUNJI

Inventor(s): (std):

DUNJI LI

Inventor(s):

LI DUNJI

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN201847843 U	20110601	LSGT	+	granted / extensions (spc, cpc, pte)	
CN201847843 U	20110601	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN201847843 U	20180306	LSAS	TR01	TRANSFER OF PATENT RIGHT	
CN201847843 U	20200422	PEXP		Calculated Patent Term Expiry	

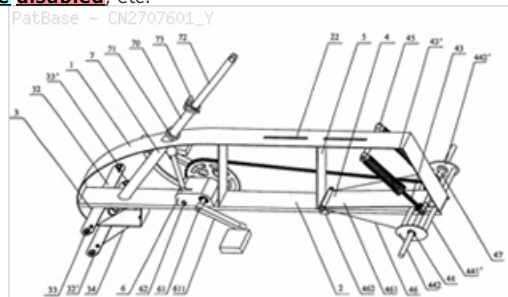
Title: LIGHT-DUTY TYPE MINI-TYPE FOUR-WHEEL WAGON FRAME

Abstract: The utility model discloses a light-duty type minitype four-wheel wagon frame, comprising an upper frame and a lower frame at least one side of which is planar in an upper surface or a lower surface, a master pin location adapter and an actuating shaft installation apparatus. The upper frame and the lower frame are connected, the master pin location adapter and the actuating shaft installation apparatus are respectively mounted on the both ends of the upper frame and the lower frame. The frame is of simple frame and outstanding function, gathering main bearing body of entire vehicle and equipment substrate, a little occupying space, light weight, simple technics and easy processing. Equipped with four wheels, a drive device, a steering gear, a braking device and a seat, etc., the utility model can be made into a minitype quadricycle, a minitype four-wheel electric vehicle, a minitype fourth wheel automobile and a minitype fourth wheel power assist vehicle which are of small size, portability, safe and stable running and comfortable ride. As a transfortable tool which is a substitute for walking, the utility model is widely used in both city and country. The frame can also be used to develop into general-purpose vehicles such as an amusement vehicle, a body-building vehicle, a touring bus, a child vehicle and a **vehicle for the disabled**, etc.

Classifications:

International (IPC 8-9): B62K5/00 B62K5/01 (Advanced/Invention);
B62K5/00 (Core/Invention)

International (IPC 1-7): B62K5/00



Family:

Publication number	Publication date	Application number	Application date
 CN2707601 Y	20050706	CN200420014577U	20040112

Priority:

CN200420014577U 20040112 CN20042014577U 20040112

Probable Assignee:

ZHANG XIANGYANG

Assignee(s): (std):

ZHANG XIANGYANG

Inventor(s): (std):

ZHANG XIANGYANG

Inventor(s):

XIANGYANG ZHANG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN2707601 Y	20050706	LSGT	+	granted / extensions (spc, cpc, pte)	
CN2707601 Y	20050706	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN2707601 Y	20090311	LSLE	-C19	LAPSE OF PATENT RIGHT DUE TO NON-PAYMENT OF THE ANNUAL FEE	
CN2707601 Y	20140112	PEXP		Calculated Patent Term Expiry	

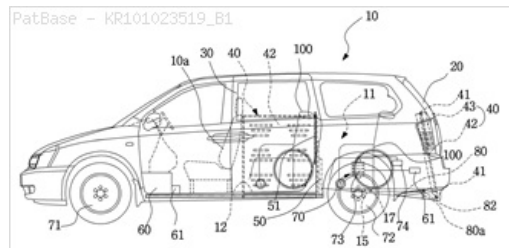
Title: CAR FOR PHYSICALLY HANDICAPPED PERSON

Abstract: PURPOSE: A **vehicle for the disabled** is provided to load a plurality of wheelchairs and to safely fix the wheelchairs inside the vehicle. CONSTITUTION: A **vehicle for the disabled** comprises: a vehicle body(10) which is equipped with a driver's seat, a passenger seat, and a space part for loading a plurality of wheelchairs; an elevating plate(40) consisting of a first plate and a second plate; and a height controller(70) equipped with an air compressor. In the floor of the space part of the vehicle body, a plurality of fixing members equipped with a plurality of fixing grooves are installed. An incline is formed in the rear floor of the vehicle body. A pivot plate(80) is pivotally installed on the incline. A pivot fixing unit(80a) is installed in both sides of the pivot plate.

Classifications:

International (IPC 8-9): A61G3/06 A61G3/08 B60P1/43 B60P3/00 (Advanced/Invention)

CPC: A61G3/061 A61G3/067 B60P1/04 B60P1/433



Family:

Publication number	Publication date	Application number	Application date
■ KR101023519 B1	20110321	KR20100080183	20100819

Priority:

KR20100080183 20100819

Probable Assignee: CHANG LIM IND CO LTD

Assignee(s): (std): CHANG LIM IND CO LTD ; CHANG LIM INDUSTRY CO LTD ; KIM JONG KIE

Assignee(s): CHANG LIM INDUSTRY CO ; CHANG LIM IND CO

Inventor(s): (std): KIM JONG KIE ; PARK SUNG KWON

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
KR101023519 B1	20110321	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101023519 B1	20100819	LSES	A201	REQUEST FOR EXAMINATION	
KR101023519 B1	20100819	LSES	A302	REQUEST FOR ACCELERATED EXAMINATION	
KR101023519 B1	20101028	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR101023519 B1	20110124	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR101023519 B1	20110311	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR101023519 B1	20140213	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20140213 YEAR OF FEE PAYMENT : 4
KR101023519 B1	20150227	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20150227 YEAR OF FEE PAYMENT : 5
KR101023519 B1	20160311	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20160311 YEAR OF FEE PAYMENT : 6
KR101023519 B1	20170313	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20170313 YEAR OF FEE PAYMENT : 7
KR101023519 B1	20180312	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20180312 YEAR OF FEE PAYMENT : 8
KR101023519 B1	20300819	PEXP		Calculated Patent Term Expiry	

Title: VEHICLE EXIT MANAGEMENT SYSTEM AND GATE TERMINAL

Abstract: Exit-possible exit gates are managed for each of vehicles that exit a parking lot. A vehicle exit management system 100 includes a gate terminal 161 controlling an exit gate of the parking lot; a DCM 141; and a vehicle management server 110 connected with the DCM 141 via a network 170. The DCM 141 transmits priority information acquired from the vehicle management server 110 based on a user ID of a vehicle 130 to the gate terminal 161 at a time of vehicle exit; and the gate terminal 161 opens the exit gate in the case of the received priority information satisfying the conditions.

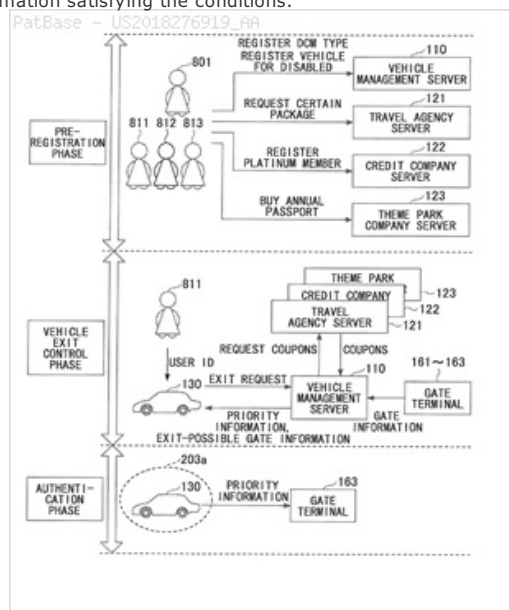
Classifications:

International (IPC 8-9): G06Q50/10 G07B15/00 G07C9/00

G08G1/14 (Advanced/Invention);

G08G1/14 (Advanced/Non-invention)

CPC: G07B15/00 G08G1/14 G07C9/00111 G07C9/00087 G06Q50/10



Family:

Publication number	Publication date	Application number	Application date
■ CN107533773 A	20180102	CN201680025226	20161205
■ EP3392842 A1	20181024	EP20160875453	20161205
■ EP3392842 A4	20181024	EP20160875453	20161205
■ JP2017111767 A2	20170622	JP20150247957	20151218
■ JP6304226 B2	20180404	JP20150247957	20151218
■ US2018276919 AA	20180927	US20160550201	20161205
■ WO17104470 A1	20170622	WO2016JP86098	20161205

Priority:

JP20150247957 20151218 WO2016JP86098 20161205

Probable Assignee: TOYOTA MOTOR CORP

Assignee(s): (std): TOYOTA MOTOR CO LTD ; TOYOTA MOTOR CORP

Assignee(s): TOYOTA JIDOSHA KK

Inventor(s): (std): ENDO MASAHITO ; ENDO MASATO ; MURATA KENICHI ; TAMANE YASUYUKI

Agent(s): CABINET BEAU DE LOMENIE; ITOH TADAHIKO; ITOH TADASHIGE; ITOH TADASHIGE ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT KE KG KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN107533773 A	20180102	LSPB	+	published / reissued	
CN107533773 A	20180102	LSPB	PB01	PUBLICATION	
EP3392842 A1	20181024	LSPB	+	published / reissued	
EP3392842 A1	20181024	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20171010
EP3392842 A1	20181024	LSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND	EFFECTIVE DATE : 20180816

DESPATCHED					
JP2017111767 A2	20170622	LSPB	+	published / reissued	
JP2017111767 A2	20170317	LSSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20170317
JP2017111767 A2	20180130	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2017111767 A2	20180206	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20180206
JP2017111767 A2	20180312	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20180219
JP2017111767 A2	20180316	LSGT	+R151	WRITTEN NOTIFICATION OF PATENT OR UTILITY MODEL REGISTRATION	TEXT : JAPANESE INTERMEDIATE CODE: R151 REF DOCUMENT NUMBER : 6304226 COUNTRY OF REF DOCUMENT : JP
JP6304226 B2	20180404	LSGT	+	granted / extensions (spc, cpc, pte)	
JP6304226 B2	20180208	LSGT	+A01	特許査定書 Decision of patent grant	
JP6304226 B2	20180208	LSFE	R1001	特許料納付書 (包括納付) Patent fee payment form (inclusive payment)	
JP6304226 B2	20180316	LSGT	R151	特許登録通知書 (一括) Patent registration notice (collective)	
JP6304226 B2	20351218	PEXP		Calculated Patent Term Expiry	
US2018276919 AA	20180927	LSPB	+	published / reissued	
US2018276919 AA	20170810	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TOYOTA JIDOSHA KABUSHIKI KAISHA, JAPAN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:MURATA, KENICHI; TAMANE, YASUYUKI; ENDO, MASATO; SIGNING DATES FROM 20170706 TO 20170720; REEL/FRAME:043261/0106
WO17104470 A1	20170622	LSPB	+	published / reissued	
WO17104470 A1	20170810	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 15550201 COUNTRY OF REF DOCUMENT : US
WO17104470 A1	20180619	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE

Title: Electric caterpillar track-planetary gear combined vehicle for disabled

Abstract: An electric caterpillar track-planetary gear combined **vehicle for the disabled** comprises a caterpillar track system, a planetary gear system, a vehicle frame, a chair frame, a seat angle adjusting mechanism, etc., wherein the caterpillar track system is composed of a driving motor, a gear set, a wheel stand, a base plate, a power wheel, a driven wheel, a bearing wheel, a caterpillar track, a power shaft, a wheel shaft, etc. The central section of the caterpillar track system is hinged to the front end of the vehicle frame via a rotating shaft. The rear end of the vehicle frame is connected with the planetary gear system via a rotating shaft, and the central section of the vehicle frame is provided with a reaming base. A circular arc-shaped tooth bar is arranged on the vehicle frame. The lower end of the chair frame is hinged with the reaming base at the central section of the vehicle frame, the central section of the chair frame is equipped with the seat angle adjusting mechanism, and the upper part of the chair frame is provided with a seat. The seat angle adjusting mechanism consists of an inclination angle inductor, an adjusting motor, a gear set, etc., wherein the gear set is engaged with the circular arc-shaped tooth bar on the vehicle frame. The electric caterpillar track-planetary gear combined vehicle of the utility model is used as a **vehicle for the disabled**.

Classifications:

International (IPC 8-9): A61G5/06 A61G5/10 (Advanced/Invention)

PatBase - CN201847849_U

CN 201847849 U 说明书附图 2/2 页

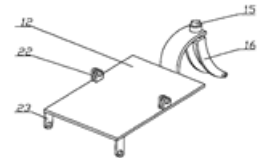


图 3

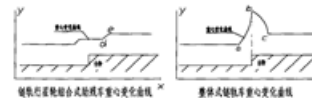


图 4

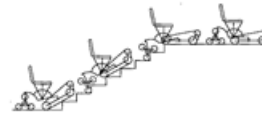


图 5

6

Family:

Publication number	Publication date	Application number	Application date
 CN201847849 U	20110601	CN201020514576U	20100902

Priority:

CN201020514576U 20100902

Probable Assignee:

DONGJIANG LIU

Assignee(s): (std):

DONGJIANG LIU

Assignee(s):

LIU DONGJIANG

Inventor(s): (std):

DONGJIANG LIU

Inventor(s):

LIU DONGJIANG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN201847849 U	20110601	LSGT	+	granted / extensions (spc, cpc, pte)	
CN201847849 U	20110601	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN201847849 U	20171024	LSLE	-CF01	TERMINATION OF PATENT RIGHT DUE TO NON-PAYMENT OF ANNUAL FEE	
CN201847849 U	20200902	PEXP		Calculated Patent Term Expiry	

Title: **VEHICLE FOR THE DISABLED**

Abstract: The invention relates to a **vehicle for the disabled**, which comprises a left vehicle plate, a right vehicle plate and a front vehicle plate. The left vehicle plate and the right vehicle plate are in parallel and are respectively provided with a left wheel and a right wheel. The left end and the right end of the front vehicle plate are respectively and fixedly connected with the front ends of the left vehicle plate and the right vehicle plate. The rear end of the left vehicle plate is connected with the rear vehicle plate. The rear vehicle plate can be opened or closed by rotating around a connecting end. A direction lever is arranged on the front vehicle plate. Handles are arranged at the two ends of the direction lever. A front stop lever is arranged horizontally and forwards arranged at the upper end of the front vehicle plate. A battery compartment is arranged on the inner side of the front vehicle plate and is used for containing batteries. The batteries are connected with the left wheel and the right wheel through a transmission component. The **vehicle for the disabled** has the advantage that the rear end can be opened to allow the disabled to enter the vehicle together with a wheelchair and hold the handles for driving.

Classifications:

International (IPC 8-9): B62K5/007 (Advanced/Invention)

PatBase - CN103466021_A

说明书附图 1/3页

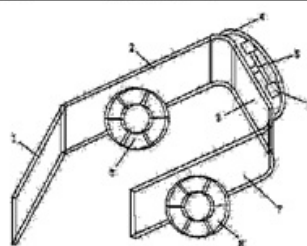


图1

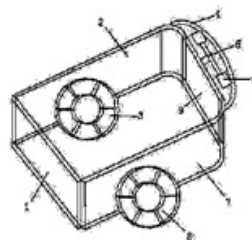


图2

a

Family:

Publication number	Publication date	Application number	Application date
■ CN103466021 A	20131225	CN201310434094	20130923

Priority:

CN201310434094 20130923

Probable Assignee:

WANG YUFANG

Assignee(s): (std):

WANG YUFANG

Inventor(s): (std):

WANG YUFANG

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
CN103466021 A	20131225	LSPB	+	published / reissued	
CN103466021 A	20131225	LSPB	+C06	PUBLICATION	
CN103466021 A	20160330	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	

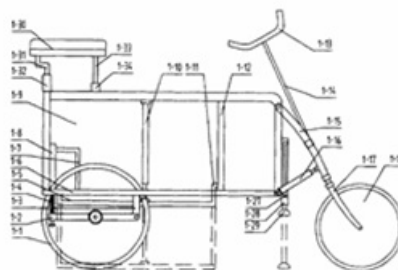
Title: MULTIFUNCTIONAL SPECIAL CYCLE FOR DISABLED PEOPLE

Abstract: The utility model discloses a multifunctional special **vehicle for the disabled**, which is a combination of a yard vehicle and an outbound towing vehicle respectively comprising an independent vehicle frame, wheels, a control system and an electric power system. The yard vehicle can be used separately and is provided with a seat cushion, an armrest, a foldable backrest rack, a foldable supporting leg rack and a footrest. A user can sit in the yard vehicle for traveling and working or lying down for a rest. A urinal is arranged below the flexible seat cushion and can be used without the user getting off the vehicle. When an outing is needed, the user can drive the yard vehicle into the towing vehicle and lift to a certain height to combine the two without any help from others. The user can go out for activities just by sitting on the seat cushion of the yard vehicle, putting away the front wheel and handlebar of the yard vehicle and operating the control panel and the handlebar on the outbound towing vehicle.

Classifications:

International (IPC 8-9): A61G5/04 (Advanced/Invention);
A61G5/00 (Core/Invention)

PatBase - CN201147422_Y



Family:

Publication number	Publication date	Application number	Application date
■ CN201147422 Y	20081112	CN200720040662U	20070713

Priority:

CN200720040662U 20070713

Probable Assignee:

DAOQUAN LU

Assignee(s): (std):

DAOQUAN LU

Assignee(s):

LU DAOQUAN

Inventor(s): (std):

DAOQUAN LU

Inventor(s):

LU DAOQUAN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN201147422 Y	20081112	LSGT	+	granted / extensions (spc, cpc, pte)	
CN201147422 Y	20081112	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN201147422 Y	20110914	LSLE	-C17	CESSATION OF PATENT RIGHT	
CN201147422 Y	20170713	PEXP		Calculated Patent Term Expiry	

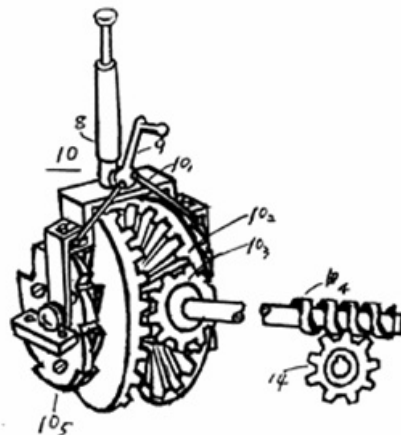
Title: Foldable telescopic lever manual up-down stair **vehicle for the disabled**

Abstract: The utility model relates to a foldable telescopic lever manual up-down stair vehicle for disabled persons, which is suitable for the persons with paralytic lower limbs and the elderly persons with inconvenient actions. The utility model uses the principle that the distance between a working point of a telescopic lever and a supporting point is far, and the distance between the supporting point and a gravity point is short, thereby, force can be saved; the force which is offered by passengers is adjusted by the lever in a telescopic way according to the principle, and the utility model is operated to freely go up and down stairs by the passengers within the ability of the passengers without the companion of families. A worm and a worm wheel are driven by the telescopic lever to make a vehicle back wheel rotate; no matter whether the utility model goes up and down the stairs or drives on flat ground, only the telescopic lever is operated by the passenger, the utility model can move; once the passengers loss the controlling ability or perception during running, the utility model can not move, so the passengers need not worry about the occurrence of danger. A steering wheel of the utility model is connected with a front fork by two lifting rack bars; a gradient adjusting hand wheel is rocked according to the gradient of the stairs by the passengers when the utility model goes up and down the stairs, and a vehicle front wheel and the steering wheel are lifted in a reverse direction to maintain the balance between a vehicle body and bodies of the passengers during running.

Classifications:

International (IPC 8-9): A61G5/06 (Advanced/Invention);
A61G5/00 (Core/Invention)

PatBase - CN2753323_Y



Family:

Publication number	Publication date	Application number	Application date
 CN2753323 Y	20060125	CN200420012396U	20040825

Priority:

CN2004102396U 20040825 CN200420012396U 20040825

Probable Assignee:

HU CHENGWEI

Assignee(s): (std):

HU CHENGWEI

Inventor(s): (std):

HU CHENGWEI

Inventor(s):

CHENGWEI HU

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN2753323 Y	20060125	LSGT	+	granted / extensions (spc, cpc, pte)	
CN2753323 Y	20060125	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN2753323 Y	20071017	LSLE	-C19	LAPSE OF PATENT RIGHT DUE TO NON-PAYMENT OF THE ANNUAL FEE	
CN2753323 Y	20140825	PEXP		Calculated Patent Term Expiry	

Title: Improvements in servo brake systems

Abstract: 707,232. Fluid-pressure servobrakes. THOMSON and TAYLOR (BROOKLANDS), Ltd. Sept. 17, 1951 [Sept. 15, 1950], No. 22740/50. Class 103(1) The servo-unit on a vehicle brake system of the type in which a pneumatically operated piston 3 applies a thrust through a rod 14 to the piston 13 of an hydraulic cylinder 8 intermediate between a master cylinder connected at 17 and the wheel cylinders connected at 16 is characterized in that the servomotor cylinder forms one end of a cylindrical pneumatic reservoir within which the hydraulic cylinder 8 is coaxially mounted. As shown the piston 3 normally has vacuum on both sides and atmospheric air is admitted at 4 to operate the device. A partition 11 having an aperture 12 therein separates the working from the reservoir parts of the casing 1. A further construction is also described modified for a servo-piston normally having atmospheric pressure on both sides. The invention is of particular value for application to small vehicles such as motor vehicles for the disabled as described in Specification 707,220.

Classifications:

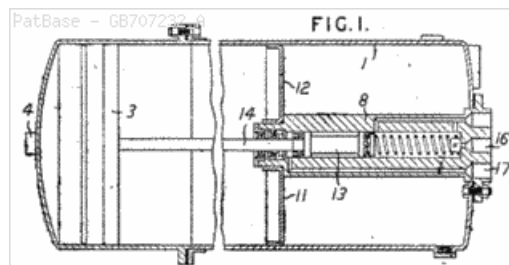
International (IPC 8-9): B60T13/44 (Advanced/Invention);

B60T13/24 (Core/Invention)

International (IPC 1-7): B60T13/24

CPC: B60T13/44

European: B60T13/44



Family:

Publication number	Publication date	Application number	Application date
GB707232 A	19540414	GB19500022740	19500915

Priority:

GB19500022740 19500915

Probable Assignee: THOMSON AND TAYLOR BROOKLANDS

Assignee(s): (std): THOMSON AND TAYLOR BROOKLANDS

Assignee(s): THOMSON AND TAYLOR BROOKLANDS LIMITED ; THOMSON AND TAYLOR BROOKLANDS LTD

Inventor(s): (std): WALKER NORMAN LYNES

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
GB707232 A	19540414	LSGT	+	granted / extensions (spc, cpc, pte)	
GB707232 A	19700915	PEXP		Calculated Patent Term Expiry	

Abstract: Source: CH309335A [FR] (Claim 1) 1. Fauteuil selon la revendication, caractérisé par le fait que l'accouplement consiste en un mécanisme autoverrouillant dans les deux sens de rotation.

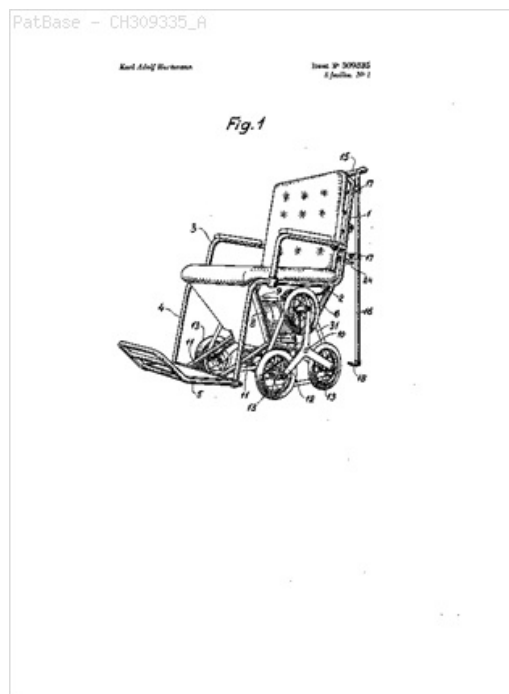
Machine translation: (Claim 1) 1. The chair of claim, characterized in that the coupling mechanism consists of a self-locking in both directions of rotation.

International (IPC 8-9): A61G5/06 B62B9/06 (Advanced/Invention)

International (IPC 1-7): A61G5/00

CPC: Y10S180/907 Y10S280/10 A61G5/065 A61G5/061 Y10T477/35

European: A61G5/06A A61G5/06B2 B62B9/06



Publication number	Publication date	Application number	Application date
CH309335 A	19550831		00000000
CH309335 B	00000000		00000000

Probable Assignee:	HARTMANN KARL ADOLF
Assignee(s) (std):	HARTMANN KARL ADOLF
Inventor(s) (std):	KARL ADOLF HARTMANN
Inventor(s):	ADOLF HARTMANN KARL

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Patent	Date recorded	Event group	Code	Event	Details
CH309335 A	19550831	LSGT	+	granted / extensions (spc, cpc, pte)	
CH309335 B	00000000	LSGT	+	granted / extensions (spc, cpc, pte)	

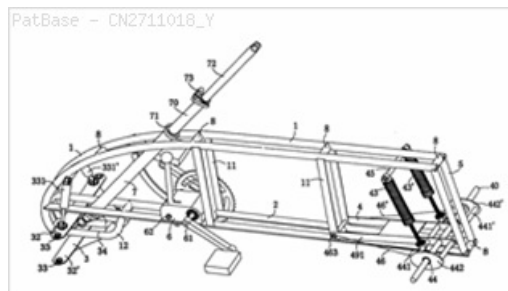
Title: DOUBLE-TUBE TYPE FRAME, AND MINIATURE FOUR-WHEELED VEHICLE THEREWITH

Abstract: The utility model discloses a double-tube type frame and a miniature quadricycle which is assembled by the double-tube type frame. The frame comprises an upper pipe and a lower pipe, which are in parallel levelly flatly and are mutually connected via a horizontal tube, and a back riser. The front end of the upper pipe is curved into an arc which is connected with the lower pipe mutually, with the back end being connected with the lower pipe via the back riser. The front part of the frame is installed a master pin location adapter and a deflecting bar location pipe, and the back part is provided with an actuating shaft installation apparatus. The miniature quadricycle of the utility model comprises the frame, a pair of front wheels and a pair of back wheels, a drive device, a turning device and a brake device, etc. The double-tube type frame of the utility model is of simple structure, outstanding function, a little occupying space and easy processing. The miniature quadricycle assembled by the frame is of small size and portability, stable and stable driving, comfortable ride and comprehensive usage. Man power drive is adopted as an ordinary tool which is a substitute of walking, the utility model is also applicable to amusement, body building, leisure or tourism. Equipped with battery, electric motor can be developed into a miniature four-wheel electric vehicle, a miniature fourth wheel power assist vehicle or a **vehicle for the disabled**, etc.

Classifications:

International (IPC 8-9): B62K5/00 (Advanced/Invention);
B62K5/00 (Core/Invention)

International (IPC 1-7): B62K5/00



Family:

Publication number	Publication date	Application number	Application date
 CN2711018 Y	20050720	CN200420071860U	20040726

Priority:

CN200420071860U 20040726

CN20042071860U 20040726

Probable Assignee:

ZHANG XIANGYANG

Assignee(s): (std):

ZHANG XIANGYANG

Inventor(s): (std):

ZHANG XIANGYANG

Inventor(s):

XIANGYANG ZHANG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN2711018 Y	20050720	LSGT	+	granted / extensions (spc, cpc, pte)	
CN2711018 Y	20050720	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN2711018 Y	20090923	LSLE	-C19	LAPSE OF PATENT RIGHT DUE TO NON-PAYMENT OF THE ANNUAL FEE	
CN2711018 Y	20140726	PEXP		Calculated Patent Term Expiry	

Title: WELFARE VEHICLE WITH WHEEL CHAIR SAFTY HOLDER

Abstract: A **vehicle for the disabled** having a wheel chair safety fixing device is provided to secure safety in loading or unloading a wheel chair to/from the vehicle and to prevent a fall caused due to mechanical malfunction by moving a wheel chair along a slope. In a **vehicle for the disabled** having a wheel chair safety fixing device, an electric slope(110) is installed in the vehicle, obliquely stretched to the ground through an opened rear door(101) or folded into the vehicle, and composed of a one-stage plate(111) coming into contact with the ground in unfolding the slope; a two-stage plate(112) both ends of which are hinge-coupled with the one-stage plate and the vehicle, turned to be folded into the vehicle or unfolded out of the vehicle; and a driving unit(120) folding or unfolding the slope. The driving unit comprises a motor installed at a bottom chassis and rotated; a link(131) mounted on the side of the two-stage plate and fixed to a rotary shaft of the motor to turn the two-stage plate by the rotation of the motor; a sprocket rotatably installed at the side rear end of the two-stage plate; and a chain of which one end is fixed to the other end of the link, the other end is fixed to the one-stage plate, and the middle portion is hung on the sprocket. Plural safety fixing devices fixing a wheel chair(1) are installed in the vehicle by unwinding a belt and then connecting the belt to the wheel chair.

Classifications:

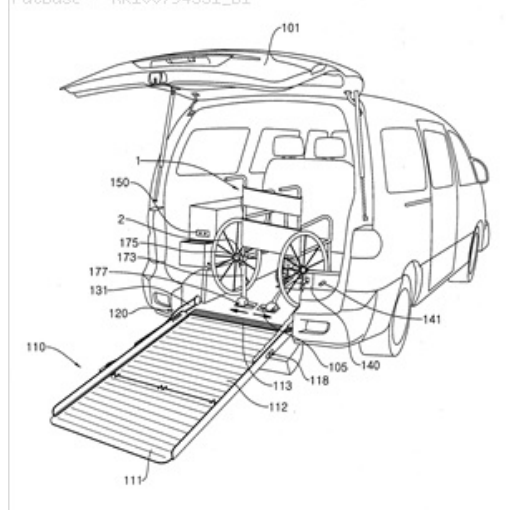
International (IPC 8-9): A61G3/06 B60P3/00 (Advanced/Invention);

A61G3/06 B60P3/00 (Advanced/Non-invention);

A61G3/00 B60P3/00 (Core/Invention)

CPC: A61G3/061 A61G3/067 A61G3/0808 B60P1/431 B60P1/433 B60P1/436

PatBase - KR100794551_B1



Family:

Publication number	Publication date	Application number	Application date
KR100794551 B1	20080117	KR20070034782	20070409

Priority:

KR20070034782 20070409

Probable Assignee:

AUTO TECH CORP

Assignee(s): (std):

AUTO TECH CORP

Inventor(s): (std):

KANG SEONG HEE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
KR100794551 B1	20080117	LSGT	+	granted / extensions (spc, cpc, pte)	
KR100794551 B1	20070409	LSSES	A201	REQUEST FOR EXAMINATION	
KR100794551 B1	20070410	LSSES	A302	REQUEST FOR ACCELERATED EXAMINATION	
KR100794551 B1	20070730	LSSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR100794551 B1	20071224	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR100794551 B1	20080108	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR100794551 B1	20080414	LSRE	G170	PUBLICATION OF CORRECTION	
KR100794551 B1	20121221	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20121224 YEAR OF FEE PAYMENT : 6
KR100794551 B1	20131227	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20131230 YEAR OF FEE PAYMENT : 7

KR100794551 B1	20150108	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20150109 YEAR OF FEE PAYMENT : 8
KR100794551 B1	20151228	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20151229 YEAR OF FEE PAYMENT : 9
KR100794551 B1	20161223	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20161226 YEAR OF FEE PAYMENT : 10
KR100794551 B1	20171222	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20171226 YEAR OF FEE PAYMENT : 11
KR100794551 B1	20190107	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20190108 YEAR OF FEE PAYMENT : 12
KR100794551 B1	20270409	PEXP		Calculated Patent Term Expiry	

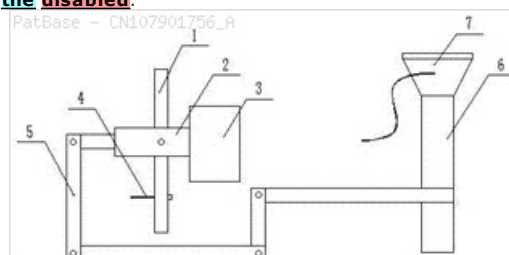
Title: VARIABLE-SPEED ROD TRANSFERRING DEVICE FOR VEHICLE FOR DISABLED

Abstract: The invention discloses a variable-speed rod transferring device for a **vehicle for the disabled**. The variable-speed rod transferring device is used for the automatic gear vehicle which is driven by the disabled without the right hands or right arms, operation is conducted through left hands, and thus the disabled can achieve the driving dream. According to the adopted technical scheme, a case is fixedly arranged on the left side of a driving position; a rotating body is movably arranged in the case; an auxiliary gear handle is vertically arranged in the case, and the middle of the auxiliary gear handle is hinged into the rotating body, can rotate around the hinging position of the middle of the auxiliary gear handle and the rotating body and integrally rotate along with the rotating body simultaneously, and is mutually perpendicular to a hinging shaft of the rotating body and a rotating shaft of the rotating body; the lower end of the auxiliary gear handle is transversely connected with a traction rope, one end of the traction rope is connected to the auxiliary gear handle, and the other end of the traction rope is connected to a pressing plate buckled at the top end of a gear handle; the traction rope drives the pressing plate to downwards press a vehicle backing shifting piece on the gear handle; and the end of the rotating body is connected to the gear handle through a connecting rod structure, and the auxiliary gear handle is pushed to shift the gear handle for gear shifting. The variable-speed rod transferring device can be widely applied to the field of the **vehicles for the disabled**.

Classifications:

International (IPC 8-9): B60K20/02 (Advanced/Invention)

CPC: B60K20/02



Family:

Publication number	Publication date	Application number	Application date
CN107901756 A	20180413	CN201711156788	20171120

Priority:

CN201711156788 20171120

Probable Assignee: SHANXI XINGUIXING TECH CO LTD

Assignee(s): (std): SHANXI XINGUIXING TECH CO LTD

Assignee(s): SHANXI XINGUIXING TECHNOLOGY CO ; SHANXI XIN KYU STARS TECHNOLOGY CO LTD

Inventor(s): (std): LI WENJUN ; NIU PANHU

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN107901756 A	20180413	LSPB	+	published / reissued	
CN107901756 A	20180413	LSPB	PB01	PUBLICATION	

Title: A KILL SWITCH DEVICE FOR A MOTOR CYCLE

Abstract: A kill switch device for a motor cycle comprising a microcontroller connected to a manually operable pushbutton switch and alternator, the said microcontroller being provided for the ignition circuit of the motorcycle, for sensing the engine speed and for switching off the ignition, on operation of the pushbutton, only on the engine falling to or below a predetermined value.

Classifications:

International (IPC 1-7): F02P5/15 F02P9/00 H01H21/50

Family:

Publication number	Publication date	Application number	Application date
IN00148CH2004 A	20051202	IN2004CH00148	20040223
IN214341 B	20080331	IN2004CH00148	20040223

Probable Assignee: INDIAN NIPPON ELECTRICALS LIMITED

Assignee(s): INDIA NIPPON ELECTRICALS LTD ; INDIAN NIPPON ELECTRICALS LIMITED

Inventor(s): PANDURENGAN RAJU ; RAMAN UMASHANKAR

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
IN00148CH2004 A	20051202	LSPB	+	published / reissued	
IN214341 B	20080331	LSGT	+	granted / extensions (spc, cpc, pte)	
IN214341 B	20240223	PEXP		Calculated Patent Term Expiry	

Title: VEHICLE FOR HANDICAPPED PERSON HAVING A WHEELCHAIR PASSAGE

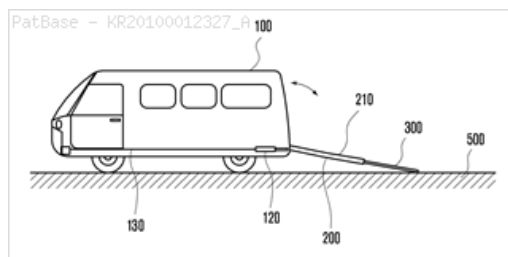
Abstract: PURPOSE: A vehicle for the disabled is provided, which enables a disabled person on the electric-powered wheelchair to get off the wheelchair by oneself without the help of protector. CONSTITUTION: A vehicle for the disabled is constituted as follows. The back door(200) has a structure of sliding from the bottom to the top. A hollow in which one side is opened is formed in the back door. A plate drive sensor, a plate drive hydraulic cylinder, and plate(300) which is connected to the back door and forms a path are built in a hollow. A back door drive sensor and back door drive hydraulic cylinder(120) are installed in the site adjacent to the back door.

Classifications:

International (IPC 8-9): A61G3/00 B60P3/00 (Advanced/Invention);

A61G3/00 B60P3/00 (Core/Invention)

CPC: A61G3/061 A61G3/0808



Family:

Publication number	Publication date	Application number	Application date
KR100992943 B1	20101111	KR20080073663	20080728
KR20100012327 A	20100208	KR20080073663	20080728

Priority:

KR20080073663 20080728

Probable Assignee:

SEO JAE GU

Assignee(s): (std):

SEO JAE GU

Inventor(s): (std):

SEO JAE GU

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
KR100992943 B1	20101111	LSGT	+	granted / extensions (spc, cpc, pte)	
KR100992943 B1	20131103	LSLE	-LAPS	LAPSE DUE TO UNPAID ANNUAL FEE	
KR100992943 B1	20280728	PEXP		Calculated Patent Term Expiry	
KR20100012327 A	20100208	LSPB	+	published / reissued	
KR20100012327 A	20080728	LSES	A201	REQUEST FOR EXAMINATION	
KR20100012327 A	20100331	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20100012327 A	20100731	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR20100012327 A	20101102	LSGT	+GRNT	WRITTEN DECISION TO GRANT	

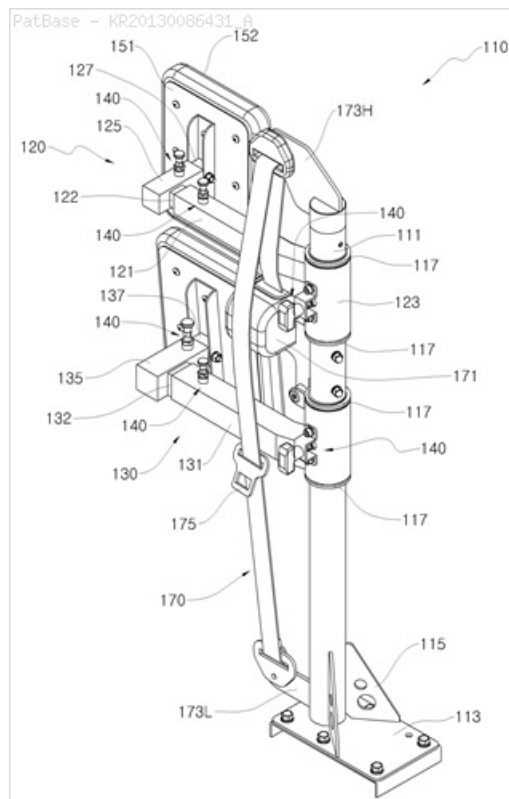
Title: DISABILITIES VEHICLE WITH WHEEL CHAIR SUPPORTER

Abstract: PURPOSE: A **vehicle for the disabled** that includes the wheelchair support is provided to offer easement even in a seated state at wheelchair by supporting the head and back of the disabled. CONSTITUTION: A **vehicle for the disabled** that includes the wheelchair support (110), a post (111) positioned at the ground inside the vehicle; a first turning table (120) which being mounted on the post to rotate or be locked around the post; a headrest which mounted on the end portion of the first turning table and supports the head of the disabled who seated on a wheelchair; a backrest (151) which mounted on the end portion of the second turning table and supports the back of the disabled who seated on a wheelchair; and a safety belt (170) which mounted on the post and covers the disabled who seated on a wheelchair.

Classifications:

International (IPC 8-9): A61G3/08 (Advanced/Invention)

CPC: A61G3/0808 A61G2220/14



Family:

Publication number	Publication date	Application number	Application date
■ KR101315716 B1	20131008	KR20120007187	20120125
■ KR20130086431 A	20130802	KR20120007187	20120125

Priority:

KR20120007187 20120125

Probable Assignee:

AUTO TECH CORP

Assignee(s): (std):

AUTO TECH CORP

Assignee(s):

AUTO TECH CORPORATION

Inventor(s): (std):

KANG SEONG HEE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
KR101315716 B1	20131008	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101315716 B1	20120125	LSES	A201	REQUEST FOR EXAMINATION	
KR101315716 B1	20130510	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR101315716 B1	20170925	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20170926 YEAR OF FEE PAYMENT : 5
KR101315716 B1	20181001	LSFE	FPAY	ANNUAL FEE PAYMENT	PAYMENT DATE : 20181002 YEAR OF FEE

KR101315716 B1	20320125	PEXP		Calculated Patent Term Expiry
KR20130086431 A	20130802	LSPB	+	published / reissued
KR20130086431 A	20130903	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT
KR20130086431 A	20131001	LSGT	+GRNT	WRITTEN DECISION TO GRANT

Title: Handspike-type bidirectional manpower device

Abstract: The utility model discloses a handspike-type bidirectional manpower device which is also known as a G-type advancing manpower device, simply a G-type manpower device. The G-type manpower device mainly comprises a handspike, a front supporting roller, a back supporting roller and a flywheel, wherein, the flywheel is composed of a small driving wheel, a big driving wheel, a flywheel seat and a flywheel cover; the small driving wheel is fixed by a handspike, the flywheel seat is fixed on a hub; when the handspike is pulled back, the small driving wheel is locked by a bayonet lock on the flywheel seat, and then the hub is linked to drive the whole wheel to rotate counterclockwise; both the inner rims of the two driving wheels are same-side inward-inclined rims; a spring lock is arranged on the flywheel seat, or dovetail grooves are arranged on the inner rims of the two driving wheels, roller pins are arranged in the dovetails grooves, thereby the hub is locked and separated and the whole wheel is ensured to move; a front supporting roller and a back supporting roller are arranged between the small driving wheel and the big driving wheel, realizing bidirectional power transmission. With simple structure and low cost, the utility model is the main unit of the middling products, particularly suitable for being used as the power driving device of the **vehicle for the disabled** or the sidecar body.

Classifications:

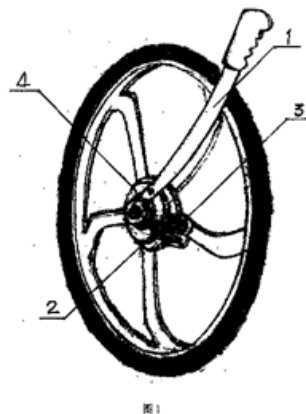
International (IPC 8-9): B62M1/16 B62M23/00 (Advanced/Invention)

PatBase - CN201580515_U

CN 201580515 U

说明书附图

1/3页



Family:

Publication number	Publication date	Application number	Application date
 CN201580515 U	20100915	CN200920227950U	20090909

Priority:

CN200920227950U 20090909

Probable Assignee:

KESHUANG MA

Assignee(s): (std):

KESHUANG MA

Assignee(s):

MA KESHUANG

Inventor(s): (std):

KESHUANG MA

Inventor(s):

MA KESHUANG

Legal status (INPADOC)

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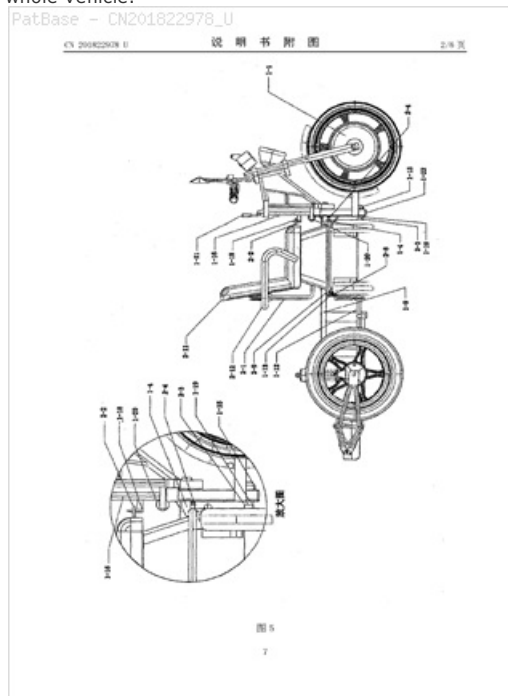
Patent	Date recorded	Event group	Code	Event	Details
CN201580515 U	20100915	LSGT	+	granted / extensions (spc, cpc, pte)	
CN201580515 U	20100915	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN201580515 U	20121114	LSLE	-C17	CESSATION OF PATENT RIGHT	
CN201580515 U	20190909	PEXP		Calculated Patent Term Expiry	

Title: CONVENIENT VEHICLE WITH FRONT-ARRANGED ENGINE

Abstract: A previous invention named a convenient vehicle of the application number of 2008101660658 discloses a technical scheme that the convenient vehicle is modified on the basis of the present special **vehicle for the disabled** to allow the vehicle body capable of accommodating a wheelchair and facilitating the user to drive the convenient vehicle on the wheelchair. However, the engine of the convenient vehicle is arranged at the rear part in order to accommodate a wheelchair in the convenient vehicle body, thereby bringing lots of inconveniences and becoming the least of perfection part in the technical scheme. Aiming to solve the above problem, the utility model provides a new solution which is to arrange the engine in the front of the vehicle, greatly facilitating the operation of the engine and simplifying the structure of the whole vehicle.

Classifications:

International (IPC 8-9): A61G5/04 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN201822978 U	20110511	CN201020255788U	20100630

Priority:

CN201020255788U 20100630

Probable Assignee:

DAGUANG HU

Assignee(s): (std):

DAGUANG HU

Assignee(s):

HU DAGUANG

Inventor(s): (std):

DAGUANG HU

Inventor(s):

HU DAGUANG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN201822978 U	20110511	LSGT	+	granted / extensions (spc, cpc, pte)	
CN201822978 U	20110511	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN201822978 U	20120926	LSDW	-C20	PATENT RIGHT OR UTILITY MODEL DEEMED TO BE ABANDONED OR IS ABANDONED	
CN201822978 U	20200630	PEXP		Calculated Patent Term Expiry	

Title: VEHICLE FOR INVALIDS

Abstract: The vehicle has a seat (20) which is held adjustable at the chassis, using an adjusting drive (26). The drive adjusts the seat depending on the position of the chassis or the seat determined by a sensor unit (27), deviating from a horizontal position. Thus, when negotiating an incline, the overall point of gravity of the vehicle and the user is automatically adjusted in the direction of the sloping surface.

Classifications:

International (IPC 8-9): A61G5/04 A61G5/06

A61G5/12 (Advanced/Invention);

A61G5/10 (Advanced/Non-invention)

International (IPC 1-7): A61G5/04

CPC: A61G5/12 A61G5/042 A61G5/1051 A61G5/1067 A61G5/107

A61G5/1075 A61G2203/14

European: A61G5/04A2 A61G5/10S8 A61G5/12 K61G203/14 K61G5/10G
K61G5/10S10 K61G5/10S14

PatBase - EP0960613_A2

EP 0 960 613 A2

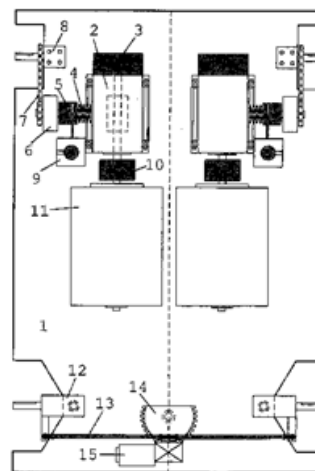


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
EP0960613 A2	19991201	EP19990810446	19990521
EP0960613 A3	20000412	EP19990810446	19990521

Priority:

CH19980001144 19980525

Probable Assignee: GAUTSCHI GEORGES

Assignee(s): (std): GAUTSCHI GEORGES

Inventor(s): (std): GAUTSCHI GEORGES

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
EP0960613 A2	19991201	LSPB	+	published / reissued	
EP0960613 A3	20001220	LSFE	+AKX	DESIGNATION FEES PAID	
EP0960613 A3	20010725	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20001013

Title: Electric leisure car

Abstract: The utility model belongs to a carrying tool, in particular relates to a foldable electric **vehicle for the disabled**. The essential technical proposal comprises a vehicle frame, a locking mechanism, front wheels and rear wheels, and the utility model is characterized in that the vehicle frame is foldable; the ends of a standing column component and a front frame component in the frame are mutually hinged; the rear part of the front frame component is respectively hinged with the ends of the rear frame component and a left-right crank component; a vertical frame component is hinged with the rear part of the rear frame component; the middle of the vertical frame component is hinged with the middle of the left-right crank component; the front wheels and the rear wheels are respectively arranged below the front of the front frame component and the back of the rear frame component. The vehicle has the advantages of foldable property, convenient carrying, flexible operation, etc.

Classifications:

International (IPC 8-9): B60K1/04 B62K11/00 B62K11/02 (Advanced/Invention);
B60K1/04 B62K11/00 (Core/Invention)

International (IPC 1-7): B60K1/04 B62K11/00 B62K11/02

Family:

Publication number	Publication date	Application number	Application date
 CN2504178 Y	20020807	CN20012045542U	20010821

Priority:

CN20012045542U 20010821

Probable Assignee: JINJIE MOTORCYCLE MFG CO LTD J
Assignee(s): (std): JINJIE MOTORCYCLE MFG CO LTD J
Assignee(s): JINJIE MOTORCYCLE MFG CO LTD JIANGSU
Inventor(s): (std): YIN ZHIQIANG ; ZHANG HONGWEI ; ZHU JIAWEI
Inventor(s): ZHIQIANG YIN ; HONGWEI ZHANG ; JIAWEI ZHU

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Patent	Date recorded	Event group	Code	Event	Details
CN2504178 Y	20020807	LSGT	+	granted / extensions (spc, cpc, pte)	
CN2504178 Y	20020807	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN2504178 Y	20051012	LSLE	-C19	LAPSE OF PATENT RIGHT DUE TO NON-PAYMENT OF THE ANNUAL FEE	
CN2504178 Y	20110821	PEXP		Calculated Patent Term Expiry	