

Search history

Search 1: FT=(SCOOTER~ AND DE AND TRES~ AND RUEDAS~) (Results 770)

Search 2: three-wheeled scooter (Results 195)

Title: **Three-wheeled scooter** (XK001) (Machine translation)

Abstract: Source: CN304450963S **Machine translation:** 1. The design product name: **Three-wheeled scooter** (XK001). 2. The product design uses: This design product for play, entertainment. 3. The design product design points are: That shape. 4. The best indicator of the design elements of the picture or photo: Perspective view.

Classifications:

Locarno class: 21/02



Family:

Publication number	Publication date	Application number	Application date
CN304450963 S	20180109	CN201730239827F	20170613

Priority:

CN201730239827F 20170613

Probable Assignee:

YONGKANG TANGSHENG LTD

Assignee(s):

YONGKANG TANGSHENG LTD

Legal status (INPADOC)

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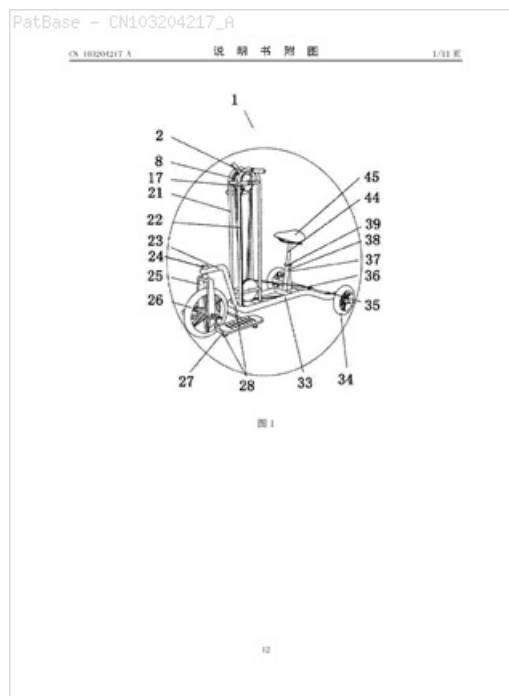
Patent	Date recorded	Event group	Code	Event	Details
CN304450963 S	20180109	LSGT	+	granted / extensions (spc, cpc, pte)	
CN304450963 S	20270613	PEXP		Calculated Patent Term Expiry	

Title: HAND-DRIVEN AND FOOT-CONTROLLED **THREE-WHEELED SCOOTER**

Abstract: The invention discloses a hand-driven and foot-controlled **three-wheeled scooter**, comprising a hand-cranking handle, a frame, a saddle, a two-stage synchronous belt transmission variable speed driving mechanism and a steering control mechanism. The variable speed driving mechanism comprises four synchronous pulleys, two synchronous conveyor belts, three transmission shafts and two rear wheels; an operator operates the scooter in a manner of sitting on the scooter, and operates the handle by hand cranking, so as to drive the scooter to move forwards through the synchronous belt transmission mechanism; the steering control mechanism is a four-bar transmission mechanism and is linked with the front wheels, the operator put the feet on steering pedals, and the two feet move back and forth to control the front wheels to swerve, thus realizing steering. The hand-driven and foot-controlled **three-wheeled scooter** disclosed by the invention breaks through the transmission mode and the control mode of the conventional scooter, and adopts hand-cranking operation; synchronous belt transmission is used as the driving mechanism, feet control steering, and a parallelogram mechanism is used as the steering control mechanism, so that the hand-driven and foot-controlled **three-wheeled scooter** has remarkable development effect on cooperativeness function of brain and four limbs, is simple and convenient to operate, safe and reliable, and suitable for the crowds with different age and gender.

Classifications:

International (IPC 8-9): B62K21/00 B62K5/06 B62L3/02 B62M1/14 B62M9/02 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN103204217 A	20130717	CN201310144004	20130424
CN103204217 B	20161228	CN201310144004	20130424

Priority:

CN201310144004 20130424

Probable Assignee: UNIV SHANGHAI

Assignee(s): (std): SHANGHAI UNIV ; UNIV SHANGHAI

Inventor(s): (std): YANG YING ; YANG ZHENGYUAN ; YU SHIMING ; CAO YE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN103204217 A	20130717	LSPB	+	published / reissued	
CN103204217 A	20130717	LSPB	+C06	PUBLICATION	
CN103204217 A	20161228	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN103204217 B	20161228	LSGT	+	granted / extensions (spc, cpc, pte)	
CN103204217 B	20330424	PEXP		Calculated Patent Term Expiry	

Title: **THREE WHEELED SCOOTER** FOR FREE STYLE SPORTS USAGE IN E.G. SKATEBOARD PARK, HAS FRAME FOR SUPPORTING REAR WHEELS AND COMPRISING AXIS WITH ANGLE GREATER THAN SPECIFIC VALUES WITH AXIS CONNECTING GROUND CONTACT POINTS OF REAR WHEELS

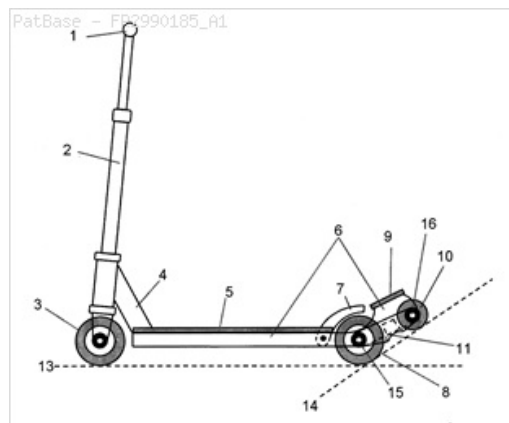
Abstract: The scooter has a frame (6) supporting rear wheels (8, 10) aligned in an advance axis of the scooter that includes a handlebar (1), a telescopic steering column (2), a front wheel (3), a folding device (4), a foot rest board (5) and a standard foot brake (7). An axis (13) of the frame connects ground contact points of the front and rear wheels and includes an angle greater than 10 degree with an axis (14) connecting the ground contact points the rear wheels. Diameter of one of the rear wheels is lower than or equal to that of the other rear wheel.

Classifications:

International (IPC 8-9): B62H1/00 B62K19/00

B62M1/00 (Advanced/Invention)

CPC: B62K3/002



Family:

Publication number	Publication date	Application number	Application date
FR2990185 A1	20131108	FR20120001284	20120503

Priority:

FR20120001284 20120503

Probable Assignee:	VILLENEUVE PATRICK
Assignee(s): (std):	VILLENEUVE PATRICK
Assignee(s):	PATRICK VILLENEUVE
Inventor(s): (std):	VILLENEUVE PATRICK
Inventor(s):	PATRICK VILLENEUVE
Agent(s):	PATRICK VILLENEUVE

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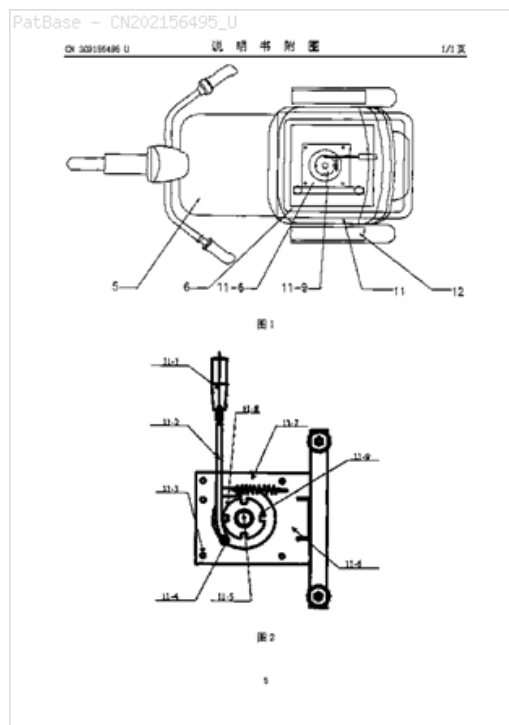
Patent	Date recorded	Event group	Code	Event	Details
FR2990185 A1	20131108	LSPB	+	published / reissued	
FR2990185 A1	20150227	LSLE	-ST	NOTIFICATION OF LAPSE	EFFECTIVE DATE : 20150130

Title: Electric **three-wheeled scooter** with adjustable seat

Abstract: The utility model discloses an electric **three-wheeled scooter** with an adjustable seat, belonging to the field of electric vehicles. The electric **three-wheeled scooter** with adjustable seats comprises a frame, a plastic piece, a seat and handrails, as well as an installation plate, a rotating axis, a direction locating pole, a reset tension spring, a locating pole and an adjusting lever, wherein the plastic piece is arranged at the rear part of the frame, the seat is arranged on the plastic piece, the handrails are arranged at two sides of the seat, the installation plate is arranged below the seat, the rotating axis is fixed on the installation plate and provided with the direction locating pole, the reset tension spring is arranged on one end of the direction locating pole, the locating pole is arranged on the other end of the direction locating pole, an adjusting lever installation axis is also fixed on the installation plate, and the adjusting lever is fixed on the adjusting lever installation axis. The electric **three-wheeled scooter** with adjustable seat has the beneficial effects that the seat can be rotated to adjust the direction so as to facilitate getting on and off of a driver and be beneficial to driving.

Classifications:

International (IPC 8-9): B62J1/10 B62K11/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN202156495 U	20120307	CN201120263325U	20110725

Priority:

CN201120263325U 20110725

Probable Assignee: JIANGSU JINPENG VEHICLE CO LTD

Assignee(s): (std): JIANGSU JINPENG VEHICLE CO LTD ; JIANGSU KINGBON VEHICLE CO LTD

Assignee(s): JIANGSU JINPENG VEHICLE CO

Inventor(s): (std): CHAOYANG LI ; SHIMIN LV ; ZHAOQIN LI ; ZHAOQING LI

Inventor(s): LI CHAOYANG ; LI ZHAOQIN ; LI ZHAOQING ; LV SHIMIN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN202156495 U	20120307	LSGT	+	granted / extensions (spc, cpc, pte)	
CN202156495 U	20120307	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN202156495 U	20150909	LSWD	-EXPY	TERMINATION OF PATENT RIGHT OR UTILITY MODEL	
CN202156495 U	20210725	PEXP		Calculated Patent Term Expiry	

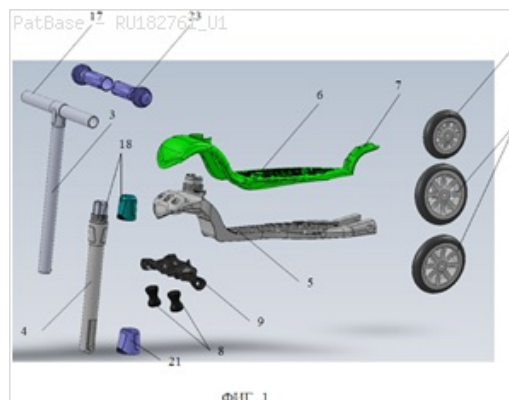
Title: Scooter (Machine translation)

Abstract: Source: RU182761U **Machine translation:** The proposed utility model allows to simplify the design and assembly of the scooter while increasing its reliability. Children's **three-wheeled scooter** comprises two front wheels and one rear wheel, a height-adjustable retractable steering wheel, a support frame, a deck, a foot brake and steering pan-tilt mechanism. Pan-tilt mechanism comprises two rubber damper and beam, on which the front wheels. Each damper on the upper and lower sides has a threaded rod. In the central part of the beam is provided sleeve with a through hole, facing toward the base frame of the scooter. In the front portion of the base frame provided with a through hole coaxial to the opening of the sleeve. Through these holes the axle passes. The sleeve is formed integrally with the beam, the left and right of the sleeve has a recess for the dampers, corresponding recesses are formed in the front portion of the base frame. The dampers and the beam are mounted at an angle to the vertical axis of the Steering, the front wheels and bearing frame scooter are interconnected through the dampers using threaded rods, the brake member is formed integrally with the deck.

Classifications:

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

CPC: B62M1/00



Family:

Publication number	Publication date	Application number	Application date
RU182761 U1	20180830	RU20170128764U	20170811

Priority:

RU20170128764U 20170811

Probable Assignee: LIABILITY CO HERMES LTD

Assignee(s): BRIEF OTVETSTVENNOSTYU HERMES ; LIABILITY CO HERMES LTD ; TITARENKO ALEXANDER VALERIEVICH

Legal status (INPADOC)

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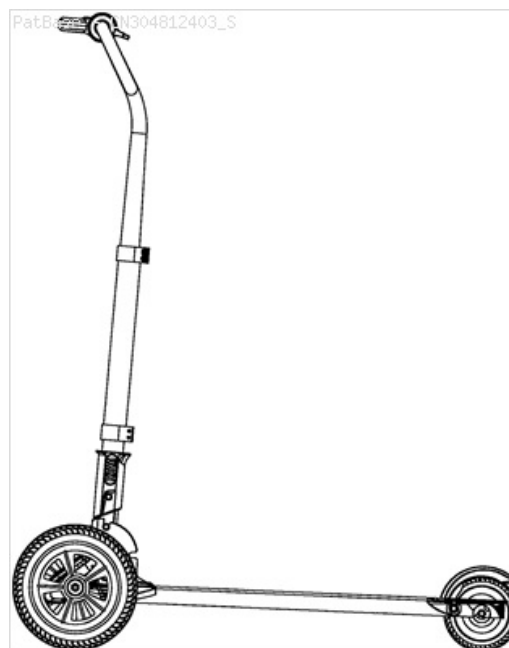
Patent	Date recorded	Event group	Code	Event	Details
RU182761 U1	20180830	LSGT	+	granted / extensions (spc, cpc, pte)	
RU182761 U1	20250811	PEXP		Calculated Patent Term Expiry	

Title: Electric **three-wheeled scooter** (Machine translation)

Abstract: Source: CN304812403S **Machine translation:** 1. The design product name: Electric **three-wheeled scooters**. 2. This design uses of products: This product design for sports, entertainment, but also can be used as vehicles. 3. The design product design points are: The Overall external shape of the product. 4. The best indicator of the design elements of the picture or photo: Perspective view.

Classifications:

Locarno class: 21/01



Family:

Publication number	Publication date	Application number	Application date
CN304812403 S	20180911	CN201830191818F	20180419

Priority:

CN201830191818F 20180419

Probable Assignee: SHENZHEN WEEK WU TECHNOLOGY CO LTD

Assignee(s): SHENZHEN WEEK WU TECHNOLOGY CO LTD

Legal status (INPADOC)

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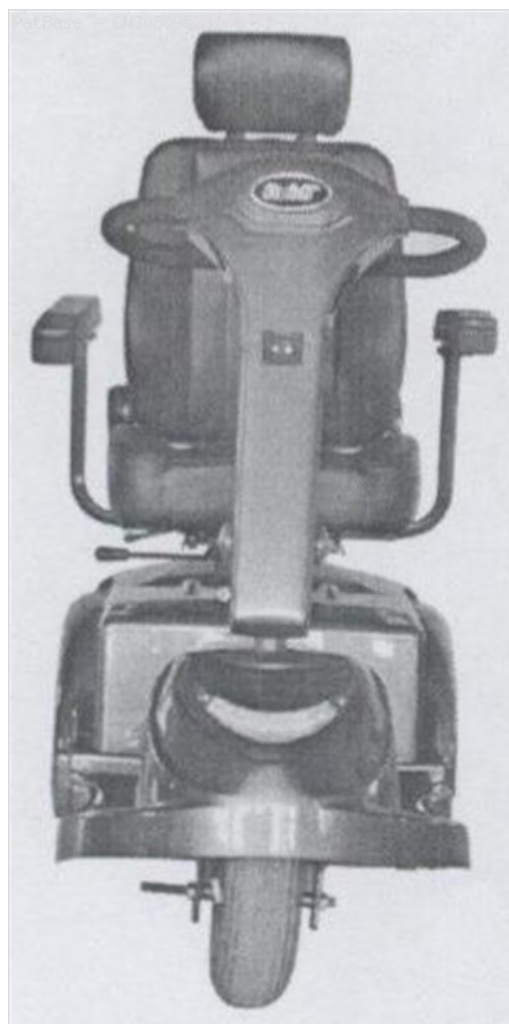
Patent	Date recorded	Event group	Code	Event	Details
CN304812403 S	20180911	LSGT	+	granted / extensions (spc, cpc, pte)	
CN304812403 S	20280419	PEXP		Calculated Patent Term Expiry	

Title: Mobility Vehicle (T4) (Machine translation)

Abstract: Source: CN303095231S **Machine translation:** . 1 The name of the product design: **three-wheeled scooter** (T4). 2. The appearance of the product design purposes: for personal transportation means of transport. Design Element 3. The product design is the appearance of the product. 4. Specify the three-dimensional picture shows the design elements can be shown in Fig. Left and right views 5. symmetrical appearance of the product, the right view is omitted; this appearance of the product is a large object is omitted bottom view.

Classifications:

Locarno class: 12/11



Family:

Publication number	Publication date	Application number	Application date
CN303095231 S	20150204	CN201430312108F	20140822

Priority:

CN201430312108F 20140822

Probable Assignee: VEHICLE IND CO LTD JINHUA REDDY

Assignee(s): VEHICLE IND CO LTD JINHUA REDDY

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN303095231 S	20150204	LSGT	+	granted / extensions (spc, cpc, pte)	
CN303095231 S	20240822	PEXP		Calculated Patent Term Expiry	

Title: CONVERTIBLE CARGO CONTAINER

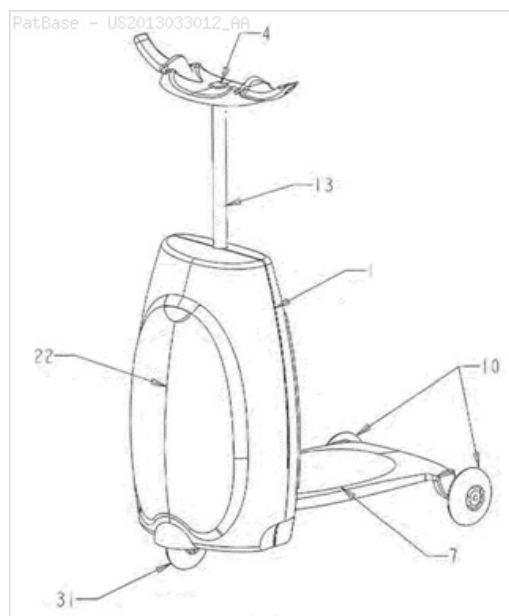
Abstract: An apparatus which is convertible from a portable cargo container to a wheeled vehicle. In particular, the present invention is a backpack or article of luggage that includes a deployable wheeled platform so that the backpack or luggage is convertible to a scooter type vehicle. The present invention is particularly useful for transporting relatively heavy loads along with a human operator, quickly and with minimal effort.

Classifications:

International (IPC 8-9): A45C 13/38 A45C 5/14 B60B 33/00 B62B 3/02 B62M 1/00 (Advanced/Invention)

CPC: B62B 3/02 B62K 3/002

US: 1/1 280/7.17



Family:

Publication number	Publication date	Application number	Application date
US2013033012 AA	20130207	US20120568031	20120806
US9090274 BA	20150728	US20140481235	20140909
WO13022860 A2	20130214	WO2012US49797	20120806
WO13022860 A3	20130502	WO2012US49797	20120806

Priority:

US20100769187 20100428 US20110515828P 20110805 US20120568031 20120806
US20140481235 20140909

Probable Assignee: ARJOMAND HAMID

Assignee(s): (std): ARJOMAND HAMID ; NEAL PHILLIP H

Inventor(s): (std): NEAL PHILLIP H ; ARJOMAND HAMID

Agent(s): PATENT LAW OFFICES OF MICHAEL E WOODS; MICHAEL E; WOODS MICHAEL

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 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 QA RO RS RU RW 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
US2013033012 AA	20130207	LSPB	+	published / reissued	
US2013033012 AA	20141030	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2013033012 AA	20141030	LSWD	-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	TEXT : ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION
US9090274 BA	20150728	LSGT	+	granted / extensions (spc, cpc, pte)	
US9090274 BA	20150708	LSGT	PAT1	Patented Case	
US9090274 BA	20150708	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE

US9090274 BA	20190318	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : MAINTENANCE FEE REMINDER MAILED (ORIGINAL EVENT CODE: REM.); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY
US9090274 BA	20340909	PEXP		Calculated Patent Term Expiry	
WO13022860 A2	20130214	LSPB	+	published / reissued	
WO13022860 A3	20140205	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO13022860 A3	20140827	LSNE	-122	EP: PCT APPLICATION NON- ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 12822123 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) :

Title: CARRY-ON FOLDABLE STEPPER SCOOTER

Abstract: An improved pedal driven scooter may have a mainframe, a joint-frame, a front balance and steering mechanism, one or two front steering wheel(s), a rear drive wheel, and a drive mechanism. The pedals are pushed rearward and move independent of each other within an adjustable angle range. The drive mechanism translates the alternative movement of the pedals into unidirectional rotation, which is further multiplied, and drives the rear wheel. A leaning control mechanism allows a rider stay mounted when the vehicle is stopped. The scooter can be folded with the joint frame pivoting at both ends, such that the rear-wheel docks between or near the front wheel(s) and the scooter can be carried as if it were a carry-on luggage. The scooter may be further folded for storage with the help of a folding hinge which connects a lower part and an upper part of the front steering mechanism.

Classifications:

International (IPC 8-9): B62K15/00 B62K19/08 B62K21/12 B62K23/06 B62K3/00 B62K5/02 B62K5/05 B62K5/08 B62K5/10 B62M1/26 B62M1/36 B62M3/08 (Advanced/Invention)

CPC: B62K15/008 B62M1/36 B62M3/08 B62K3/002 B62K5/05 B62K5/08 B62K5/10 B62K23/06 B62M1/30 B62M6/40

**Family:**

Publication number	Publication date	Application number	Application date
US2017210440 AA	20170727	US20170409680	20170119
WO17127660 A1	20170727	WO2017US14307	20170120

Priority:

US20160286408P 20160124 US20170409680 20170119

Probable Assignee: DRAGOMIR COSTEL

Assignee(s): (std): DRAGOMIR COSTEL

Inventor(s): (std): DRAGOMIR COSTEL

Agent(s): GEARHART RICHARD

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 JP KE KG KH KM KN KP KR KW 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)

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Patent	Date recorded	Event group	Code	Event	Details
US2017210440 AA	20170727	LSPB	+	published / reissued	
US2017210440 AA	20190325	LSSES	+NAM1	Notice of Allowance Mailed -- Application Received in Office of Publications	
US2017210440 AA	20190529	LSGT	PAT1	Patented Case	
WO17127660 A1	20170727	LSPB	+	published / reissued	
WO17127660 A1	20180725	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO17127660 A1	20190220	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 17741998 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :

Title: CAMBERING VEHICLE AND MECHANISM

Abstract: A cambering vehicle includes a single steerable front wheel and a pair of rear wheels at the rearward ends of trailing arms extending from the front structure. The two arms are articulated to the front structure, and move arcuately in planes parallel to the steering column. In one embodiment the arms are linked by a yoke, and traverse equal arcuate distances in opposite directions relative to one another. In another embodiment the yoke is replaced by a transverse link, with elastomer bushings connecting the link ends to their respective arms. The vehicle operates using the principle of conservation of angular momentum, with the vehicle traveling a sinusoidal path and the operator leaning to the inside of the turn. This moves the center of gravity of the vehicle and operator to the inside of the turn, thus accelerating vehicle and operator along the turning path to increase velocity of the device.

Classifications:

International (IPC 8-9): B62K17/00 B62K3/00 B62K5/02 B62K5/04 B62M1/00 B62M1/12 (Advanced/Invention)

International (IPC 1-7): B60R B62K3/00 B62K5/02 B62K5/04 B62M1/00

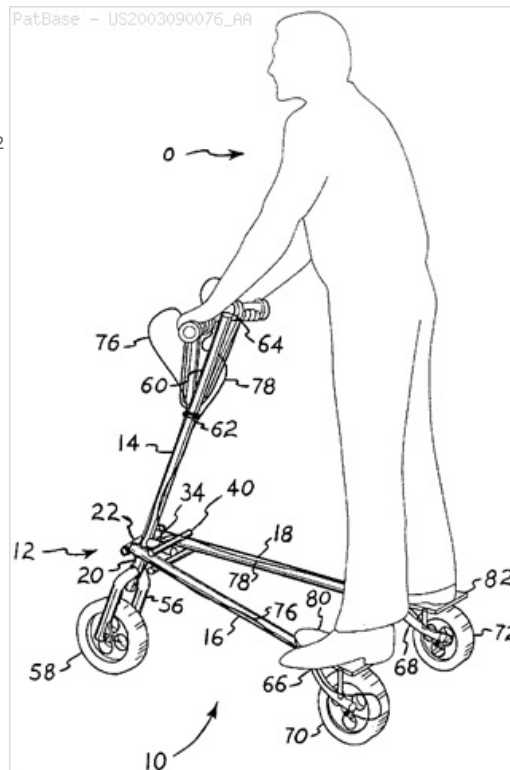
CPC: B62K5/02 B62K15/006 B62K3/002

European: B62K3/00B

US: 280/124.11 280/124.111 280/40 280/87.041 280/87.041P 280/87.042 280/87.05

JP F-Term: 3D011 3D011/AA03 3D011/AC01 3D011/AD01 3D012 3D012/BB02 3D126 3D212 3D212/BB05 3D212/BB10 3D212/BB15 3D212/BB26 3D212/BB44 3D212/BB53 3D212/BB77

JP F-Index: B62K17/00 B62K5/02/Z B62K5/04/A B62M1/12

**Family:**

Publication number	Publication date	Application number	Application date
AT315517 E	20060215	AT20000991929T	20001103
AU200136413 A1	20010514	AU20010036413	20001103
AU200136413 A5	20010514	AU20010036413	20001103
AU768971 B2	20040115	AU20010036413	20001103
CA2390224 AA	20020502	CA20002390224	20001103
CA2390224 C	20050906	CA20002390224	20001103
CN1132755 C	20031231	CN20008018040	20001103
CN1414918 A	20030430	CN20008018040	20001103
DE60025538 D1	20060406	DE20006025538	20001103
DE60025538 D1	20060406	DE20006025538T	20001103
DE60025538 T2	20060921	DE20006025538T	20001103
EP1235709 A2	20020904	EP20000991929	20001103
EP1235709 A4	20030507	EP20000991929	20001103
EP1235709 B1	20060111	EP20000991929	20001103
ES2199096 T1	20040216	ES20000991929T	20001103
ES2199096 T3	20061016	ES20000991929T	20001103
JP2003532571 T2	20031105	JP20010534645T	20001103
JP3853654 B2	20061206	JP20010534645T	20001103
PT1235709 T	20060531	PT20000991929T	20001103
US2003090076 AA	20030515	US20020331558	20021231
US2004227318 AA	20041118	US20040876497	20040625
US6220612 BA	20010424	US19990434371	19991105
US6499751 BA	20021231	US20000708028	20001108
US6827358 BB	20041207	US20020331558	20021231
US6976687 BB	20051220	US20040876497	20040625
WO0132470 A2	20010510	WO2000US41844	20001103
WO0132470 A3	20020110	WO2000US41844	20001103

Priority:

US19990434371 19991105

WO2000US41844 20001103

US20000708028 20001108

Probable Assignee: TRIKKE TECH INC**Assignee(s):** (std): BELESKI GILDO J JR ; BELESKI J GILDO JR ; TRIKKE TECH INC ; TREC TECHNOLOGY INC**Assignee(s):** TRI E TECH INC KK ; BELESKI JR J GILDO ; J GILDO BELESKI JR ; BELESKI J ; BELESKI J GILDO**Inventor(s):** (std): BELESKI GEOS GILDO JR ; BELESKI GILDO J ; BELESKI J GILDO JR ; BELESKI JR ; BELESKI JR J GILDO ; BELESKI GUILDOR J JR ; J GILDO BELESKI JR ; BELESKI J GILDO ; BELESKI GILDO J JR**Inventor(s):** BELESKI J ; BELESKI GUILDOR J ; BELESKI ; GEOS GILDO BELESKI JR ; JR J GILDO**Agent(s):** HODGKINSON MCINNES PATENTS; IP SOLVED ANZ PTY LTD; MCFADDEN FINCHAM; OSLER HOSKIN AND HARCOURT LLP; KNOBBE MARTENS OLSON AND BEAR LLP**Designated states:** AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW**Legal status (INPADOC)**[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
AT315517 E	20060215	LSGT	+	granted / extensions (spc, cpc, pte)	
AT315517 E	20060715	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT315517 E	20201103	PEXP		Calculated Patent Term Expiry	
AU200136413 A1	20010514	LSPB	+	published / reissued	
AU768971 B2	20040115	LSGT	+	granted / extensions (spc, cpc, pte)	
AU768971 B2	20040513	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU768971 B2	20040715	LSAS	PC	ASSIGNMENT REGISTERED	PARTYTYPE : OWNER OWNER : TRIKKE TECH, INC. OLDPARTY : FORMER OWNER WAS: J. GILDO BELESKI JR.
AU768971 B2	20180531	LSLE	-MK14	PATENT CEASED SECTION 143(A) (ANNUAL FEES NOT PAID) OR EXPIRED	
AU768971 B2	20201103	PEXP		Calculated Patent Term Expiry	
CA2390224 AA	20020502	LSPB	+	published / reissued	
CA2390224 AA	20020502	LSES	+EEER	EXAMINATION REQUEST	
CA2390224 C	20050906	LSGT	+	granted / extensions (spc, cpc, pte)	
CA2390224 C	20201103	PEXP		Calculated Patent Term Expiry	
CN1132755 C	20031231	LSGT	+	granted / extensions (spc, cpc, pte)	
CN1132755 C	20031231	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN1132755 C	20201103	PEXP		Calculated Patent Term Expiry	
CN1414918 A	20030430	LSPB	+	published / reissued	
CN1414918 A	20030430	LSPB	+C06	PUBLICATION	
DE60025538 D1	20070201	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE60025538 D1	20070201	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE60025538 T2	20060921	LSGT	+	granted / extensions (spc, cpc, pte)	
DE60025538 T2	20070201	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE60025538 T2	20201103	PEXP		Calculated Patent Term	

Expiry					
EP1235709 A2	20020904	LSPB	+	published / reissued	
EP1235709 A2	20020911	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20020710
EP1235709 A2	20030115	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : TRIKKE TECH, INC.
EP1235709 A2	20160129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20151028 YEAR OF FEE PAYMENT : 16
EP1235709 A2	20160129	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20151028 YEAR OF FEE PAYMENT : 16
EP1235709 A2	20160229	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20151014 YEAR OF FEE PAYMENT : 16
EP1235709 A2	20160229	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PT PAYMENT DATE : 20151103 YEAR OF FEE PAYMENT : 16
EP1235709 A2	20160229	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20151110 YEAR OF FEE PAYMENT : 16
EP1235709 A2	20160229	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20151008 YEAR OF FEE PAYMENT : 16
EP1235709 A2	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20161025 YEAR OF FEE PAYMENT : 17
EP1235709 A4	20030507	LSSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED	EFFECTIVE DATE : 20030320
EP1235709 A4	20030507	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : 7B 62K 3/00 B
EP1235709 A4	20030507	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : 7B 62M 1/00 A
EP1235709 A4	20030507	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : 7B 62K 5/02 B
EP1235709 A4	20030813	LSSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20030701
EP1235709 B1	20060111	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1235709 B1	20060111	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20060111
EP1235709 B1	20060111	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20060111
EP1235709 B1	20060111	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT

				POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20060111
EP1235709 B1	20060111	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20060111
EP1235709 B1	20060111	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20060111
EP1235709 B1	20060113	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1235709 B1	20060208	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP1235709 B1	20060411	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20060411
EP1235709 B1	20060411	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20060411
EP1235709 B1	20060731	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1235709 B1	20061016	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2199096 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) :
EP1235709 B1	20061103	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20061103
EP1235709 B1	20061130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20061130
EP1235709 B1	20061220	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20061012
EP1235709 B1	20080430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20060412
EP1235709 B1	20080731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF

EP1235709 B1	20080731	LSLE	-PG25	POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	DUE FEES LAPSED DATE : 20061103
				LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : TR NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20060111
EP1235709 B1	20081128	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CY NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20060111
EP1235709 B1	20151008	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 16
EP1235709 B1	20161014	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 17
EP1235709 B1	20161230	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE PAYMENT DATE : 20160926 YEAR OF FEE PAYMENT : 17
EP1235709 B1	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20161102 YEAR OF FEE PAYMENT : 17
EP1235709 B1	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20161110 YEAR OF FEE PAYMENT : 17
EP1235709 B1	20170131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20161014 YEAR OF FEE PAYMENT : 17
EP1235709 B1	20170228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PT PAYMENT DATE : 20161103 YEAR OF FEE PAYMENT : 17
EP1235709 B1	20170228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20161011 YEAR OF FEE PAYMENT : 17
EP1235709 B1	20180131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20171031 YEAR OF FEE PAYMENT : 18
EP1235709 B1	20180228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20171016 YEAR OF FEE PAYMENT : 18
EP1235709 B1	20180725	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20171103
EP1235709 B1	20180731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONOF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20180503
EP1235709 B1	20180831	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20180731

EP1235709 B1	20181031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20171130
EP1235709 B1	20181130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20171130
EP1235709 B1	20181130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20171103
EP1235709 B1	20181226	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FD2A EFFECTIVE DATE : 20181226
EP1235709 B1	20181231	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20181017 YEAR OF FEE PAYMENT : 19
EP1235709 B1	20190131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20181023 YEAR OF FEE PAYMENT : 19
EP1235709 B1	20190228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20171104
EP1235709 B1	20201103	PEXP		Calculated Patent Term Expiry	
ES2199096 T1	20040216	LSPB	+	published / reissued	
ES2199096 T3	20061016	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2199096 T3	20201103	PEXP		Calculated Patent Term Expiry	
JP2003532571 T2	20031105	LSPB	+	published / reissued	
JP2003532571 T2	20040611	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20040610
JP2003532571 T2	20040611	LSSES	+A621	WRITTEN REQUEST FOR APPLICATION EXAMINATION	TEXT : JAPANESE INTERMEDIATE CODE: A621 EFFECTIVE DATE : 20040610
JP2003532571 T2	20060418	LSSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20060418
JP2003532571 T2	20060701	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20060630
JP2003532571 T2	20060727	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP2003532571 T2	20060808	LSGT	+A01	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL)	TEXT : JAPANESE INTERMEDIATE CODE: A01 EFFECTIVE DATE : 20060808
JP2003532571 T2	20060914	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20060906
JP2003532571 T2	20060915	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150

JP3853654 B2	20061206	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3853654 B2	20060810	LSGT	+A01	特許査定書 Decision of patent grant	
JP3853654 B2	20060912	LSFE	R100	特許料納付書 Patent fee payment form	
JP3853654 B2	20090903	LSFE	R20	特許料納付書 Patent fee payment form	
JP3853654 B2	20090908	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP3853654 B2	20100902	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 4
JP3853654 B2	20100907	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 5
JP3853654 B2	20110901	LSFE	R20	特許料納付書 Patent fee payment form	
JP3853654 B2	20110906	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 6
JP3853654 B2	20120830	LSFE	R20	特許料納付書 Patent fee payment form	
JP3853654 B2	20120904	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF DATABASE)	YEAR OF FEE PAYMENT : 7
JP3853654 B2	20130829	LSFE	R20	特許料納付書 Patent fee payment form	
JP3853654 B2	20130903	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3853654 B2	20140828	LSFE	R20	特許料納付書 Patent fee payment form	
JP3853654 B2	20140902	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3853654 B2	20150903	LSFE	R20	特許料納付書 Patent fee payment form	
JP3853654 B2	20150908	LSFE	+R250	RECEIPT OF ANNUAL FEES	TEXT : JAPANESE INTERMEDIATE CODE: R250
JP3853654 B2	20160915	LSLE	-LAPS	CANCELLATION BECAUSE OF NO PAYMENT OF ANNUAL FEES	
JP3853654 B2	20201103	PEXP		Calculated Patent Term Expiry	
PT1235709 T	20060531	LSGT	+	granted / extensions (spc, cpc, pte)	
PT1235709 T	20201103	PEXP		Calculated Patent Term Expiry	
US2003090076 AA	20030515	LSPB	+	published / reissued	
US2003090076 AA	20040304	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TRIKKE TECH, INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:BELESKI, GILDO; REEL/FRAME:015032/0121 EFFECTIVE DATE : 20040126
US2003090076 AA	20040315	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TRIKKE TECH, INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:BELESKI, J. GILDO; REEL/FRAME:015094/0174 EFFECTIVE DATE : 20040305
US2003090076 AA	20041118	LSGT	STCF	INFORMATION ON	TEXT : PATENTED CASE

				STATUS: PATENT GRANT	
US2004227318 AA	20041118	LSPB	+	published / reissued	
US6220612 BA	20010424	LSGT	+	granted / extensions (spc, cpc, pte)	
US6220612 BA	20010405	LSGT	PAT1	Patented Case	
US6220612 BA	20010405	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US6220612 BA	20010702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TRIKKE TECH, INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:BELESKI, JOSE GILDO JR.; REEL/FRAME:011941/0118 EFFECTIVE DATE : 20010201
US6220612 BA	20041022	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6220612 BA	20080604	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6220612 BA	20120927	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6220612 BA	20191105	PEXP		Calculated Patent Term Expiry	
US6499751 BA	20021231	LSGT	+	granted / extensions (spc, cpc, pte)	
US6499751 BA	20010702	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TRIKKE TECH, INC., CALIFORNIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:BELESKI, JOSE GILDO JR.; REEL/FRAME:011941/0124 EFFECTIVE DATE : 20010201
US6499751 BA	20021212	LSGT	PAT1	Patented Case	
US6499751 BA	20021212	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US6499751 BA	20060629	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6499751 BA	20101206	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6499751 BA	20141218	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6499751 BA	20201114	PEXP		Calculated Patent Term Expiry (PTA 6 days)	
US6827358 BB	20041207	LSGT	+	granted / extensions (spc, cpc, pte)	
US6827358 BB	20041118	LSGT	PAT1	Patented Case	
US6827358 BB	20080604	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6827358 BB	20120612	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6827358 BB	20161201	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US6827358 BB	20221231	PEXP		Calculated Patent Term Expiry	
US6976687 BB	20051220	LSGT	+	granted / extensions (spc, cpc, pte)	
US6976687 BB	20051130	LSGT	PAT1	Patented Case	
US6976687 BB	20090622	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6976687 BB	20130709	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6976687 BB	20180115	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	TEXT : PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.)
US6976687 BB	20180115	LSLE	-PEX1	Patent Expired Due to	

				NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6976687 BB	20180115	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6976687 BB	20180206	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20171220
US6976687 BB	20240625	PEXP		Calculated Patent Term Expiry	
WO0132470 A2	20010510	LSPB	+	published / reissued	
WO0132470 A3	20020502	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2390224 COUNTRY OF REF DOCUMENT : CA
WO0132470 A3	20020507	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2001534645 COUNTRY OF REF DOCUMENT : JP KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO0132470 A3	20020604	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 36413/01 COUNTRY OF REF DOCUMENT : AU
WO0132470 A3	20020605	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2000991929 COUNTRY OF REF DOCUMENT : EP
WO0132470 A3	20020701	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 008180407 COUNTRY OF REF DOCUMENT : CN
WO0132470 A3	20020904	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2000991929 COUNTRY OF REF DOCUMENT : EP
WO0132470 A3	20021017	LSWD	REG	REFERENCE TO NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : 8642
WO0132470 A3	20040429	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 36413/01 COUNTRY OF REF DOCUMENT : AU
WO0132470 A3	20060111	LSGT	+WWG	WIPO INFORMATION: GRANT IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2000991929 COUNTRY OF REF DOCUMENT : EP

Title: Mobility Vehicle (T6) (Machine translation)

Abstract: Source: CN303095232S **Machine translation:** . 1 The name of the product design: **three-wheeled scooter** (T6). 2. The appearance of the product design purposes: for personal transportation means of transport. Design Element 3. The product design is the appearance of the product. 4. Specify the three-dimensional picture shows the design elements can be shown in Fig. Right view and left view of symmetry 5. The appearance of the product, is omitted left side view; the present appearance of the product is a large object is omitted bottom view.

Classifications:

Locarno class: 12/11



Family:

Publication number	Publication date	Application number	Application date
CN303095232 S	20150204	CN201430312109F	20140822

Priority:

CN201430312109F 20140822

Probable Assignee: VEHICLE IND CO LTD JINHUA REDDY

Assignee(s): VEHICLE IND CO LTD JINHUA REDDY

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
CN303095232 S	20150204	LSGT	+	granted / extensions (spc, cpc, pte)	
CN303095232 S	20240822	PEXP		Calculated Patent Term Expiry	

Title: **Three-wheeled scooter** (Machine translation)

Abstract: Source: CN304376068S **Machine translation:** 1. The design product name: **Three-wheeled scooters**. 2. The product design uses: This design product for play, entertainment. 3. The design product design points are: That shape. 4. The best indicator of the design elements of the picture or photo: Perspective view.

Classifications:

Locarno class: 21/02



Family:

Publication number	Publication date	Application number	Application date
CN304376068 S	20171128	CN201730222053F	20170605

Priority:

CN201730222053F 20170605

Probable Assignee:

YONGKANG TANGSHENG LTD

Assignee(s):

YONGKANG TANGSHENG LTD

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN304376068 S	20171128	LSGT	+	granted / extensions (spc, cpc, pte)	
CN304376068 S	20270605	PEXP		Calculated Patent Term Expiry	

Title: **Three-wheeled scooter** (Machine translation)

Abstract: Source: CN305060842S **Machine translation:** 1. The design product name: **Three-wheeled scooter**; 2. The product design uses: This product design for sports, entertainment, can also be used as a vehicle; 3. The design product design points are: The product shape; 4. The best indicator of the design elements of the picture or photo: Perspective view.

Classifications:

Locarno class: 21/02



Family:

Publication number	Publication date	Application number	Application date
CN305060842 S	20190308	CN201830626103F	20181107

Priority:

CN201830626103F 20181107

Probable Assignee:

GONG DAN

Assignee(s):

GONG DAN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN305060842 S	20190308	LSGT	+	granted / extensions (spc, cpc, pte)	
CN305060842 S	20281107	PEXP		Calculated Patent Term Expiry	

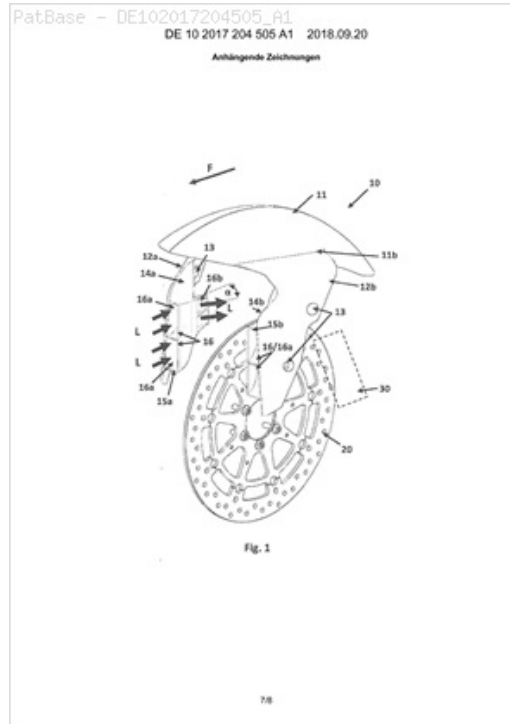
Title: RADABDECKUNG MIT LUFTLEITELEMENT Mudguard WITH AIR-guiding element (Machine translation)

Abstract: Source: DE102017204505A1 [DE] Es wird eine Radabdeckung fuer ein Rad eines Kraftfahrzeugs, insbesondere fuer ein Vorderrad eines Motorrads oder eines motorradaehnlichen Fahrzeugs, bereitgestellt, mit einem Abdeckungsabschnitt, welcher zum abschnittweisen Abdecken einer Laufflaeche des Rades ausgebildet ist, und mit einem seitlich mit dem Abdeckungsabschnitt verbundenen ersten Seitenabschnitt, welcher zum Befestigen der Radabdeckung an einer, dem Rad zugeordneten Radaufhaengung, insbesondere einem ersten Federbein, ausgebildet ist, wobei auf einer Innenseite des ersten Seitenabschnitts ein erstes Luftleitelement mit mindestens einem Luftleitkanal angeordnet ist. **Machine translation:** It is a wheel cover to a wheel of a motor vehicle, in particular for a front wheel of a motorcycle or a motorcycle similar vehicle, is provided with a cover portion, which have a running surface of the wheel cover to the portion is formed, and with a laterally with the cover portion connected first side portion to secure the wheel cover on a wheel suspension, in particular, the associated with a first strut is formed on an inner side of the first side portion, wherein a first air-guiding element with at least one air distribution duct is arranged.

Classifications:

International (IPC 8-9): B60T5/00 B62J15/00 (Advanced/Invention)

CPC: B60T5/00 B62J15/00 F16D65/847



Family:

Publication number	Publication date	Application number	Application date
DE102017204505 A1	20180920	DE201710204505	20170317

Priority:

DE201710204505 20170317

Probable Assignee: BMW AG

Assignee(s): (std): BAYERISCHE MOTOREN WERKE AG ; BMW AG

Inventor(s): (std): JAEGER ELMAR

Legal status (INPADOC)

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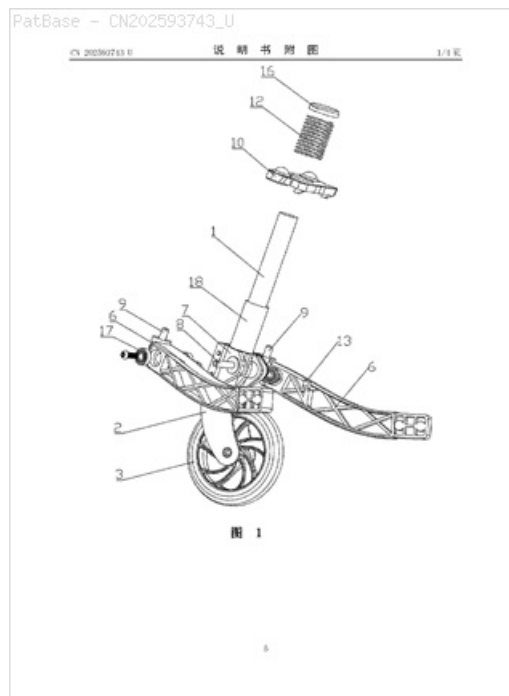
Patent	Date recorded	Event group	Code	Event	Details
DE102017204505 A1	20180920	LSPB	+	published / reissued	

Title: FOLDING DEVICE FOR **THREE-WHEELED SCOOTER**

Abstract: A folding device for a **three-wheeled scooter** adopts the structure that a front fork is arranged at the lower part of a handlebar stick; a front wheel is positioned on the front fork; rear wheels are respectively arranged under two pedals; and the two pedals are respectively hinged on a folding leg through a connecting rod. The folding device is characterized in that the folding leg is hinged with the front end of the connecting rod; an inserted pin is arranged at the upper part of the front end of the connecting rod; a locating rack is arranged at the upper part of the folding leg; a positioning hole matched with the inserted pin is formed in the locating rack; the locating rack can move on a sleeve; the handlebar stick is sleeved by a return spring; the return spring presses the locating rack; and a clamping point matched with the locating rack is arranged on the inner side of the connecting rod. As the folding structure is adopted, the folding operation is very convenient. The folding structure is simple in mechanism, and ideal to position in folding and opening.

Classifications:

International (IPC 8-9): B62K15/00 (Advanced/Invention)

**Family:**

Publication number	Publication date	Application number	Application date
CN202593743 U	20121212	CN201220272017U	20120611

Priority:

CN201220272017U 20120611

Probable Assignee:

YAN KEXUE

Assignee(s): (std):

YAN KEXUE

Inventor(s): (std):

YAN KEXUE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN202593743 U	20121212	LSGT	+	granted / extensions (spc, cpc, pte)	
CN202593743 U	20121212	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN202593743 U	20220611	PEXP		Calculated Patent Term Expiry	

Title: MOBILITY CART

Abstract: The invention is a mobility cart for a person having an injured or disabled lower limb for use in confined spaces, such as the home. Of particular note, the cart has three wheels and has a low center of gravity thereby improving the stability of the cart and rider.

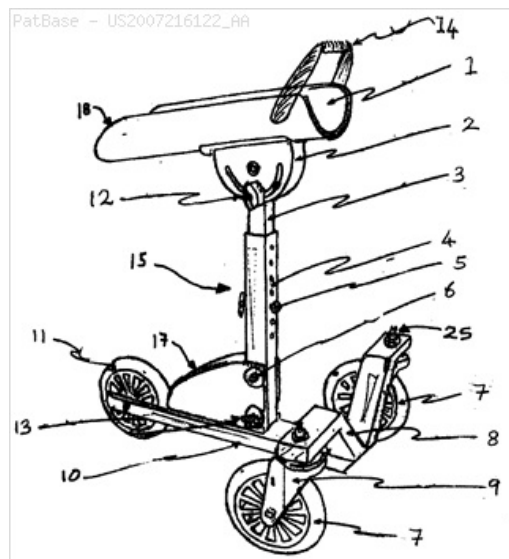
Classifications:

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

CPC: A61H3/00 A61H3/04 A61H2003/005

European: A61H3/00 A61H3/04 K61H3/00A10

US: 280/87.05



Family:

Publication number	Publication date	Application number	Application date
US2007216122 AA	20070920	US20070726098	20070320

Priority:

US20060784053P 20060320 US20070726098 20070320

Probable Assignee: CORNELIUS GREGORY T

Assignee(s): (std): CORNELIUS GREGORY T ; LAVIN DARRELL S

Inventor(s): (std): CORNELIUS GREGORY T ; LAVIN DARRELL S

Agent(s): BELL AND ASSOCIATES

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2007216122 AA	20070920	LSPB	+	published / reissued	
US2007216122 AA	20090409	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2007216122 AA	20090409	LSWD	-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	TEXT : ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION

Title: TRI-SCOOTER

Abstract: Source: TWD167313S **Machine translation:** [Use] items; The design department as a sport and leisure with three scooters.; [Description]; The design of the **three-wheeled scooter** as shown in the figure, carrying the body set up to control the head ends of the T-bar portion of the handle of the phase, the front end of the bottom surface of the left and right sides of the pivot has a wheel, the car Ministry extends back body has a first-class line of long rectangular pedal, the pedal at the rear end properly embed features a wheel, and is connected with the footrest portion fixedly connected with the case constitutes the overall appearance of a specific visual design.

Classifications:

US: D21/423

Locarno class: 21/01



Family:

Publication number	Publication date	Application number	Application date
TWD167313 S1	20150421	TW20140305049F	20140828
USD738435 S1	20150908	US20140487181F	20140407

Priority:

US20140487181F 20140407

Probable Assignee:

YVOLVE SPORTS LTD

Assignee(s): (std):

YVOLVE SPORTS LTD

Assignee(s):

HAPPY LIVE SPORT LTD

Inventor(s): (std):

O CONNELL THOMAS

Agent(s):

MILLMAN IP INC

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
TWD167313 S1	20150421	LSGT	+	granted / extensions (spc, cpc, pte)	
TWD167313 S1	20260828	PEXP		Calculated Patent Term Expiry	
USD738435 S1	20150908	LSGT	+	granted / extensions (spc, cpc, pte)	
USD738435 S1	20150819	LSGT	PAT1	Patented Case	
USD738435 S1	20290908	PEXP		Calculated Patent Term Expiry	

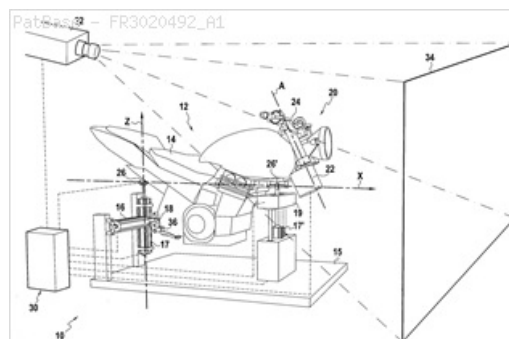
Title: PROCEDE DE DETERMINATION DE COUPLE GUIDON, PROGRAMME POUR LA MISE EN ŒUVRE DE CE PROCEDE, ET SIMULATEUR DE MOTO

Abstract: Source: FR3020492A [FR] Procédé de détermination d'un couple de guidon (CG) à appliquer au guidon (20) d'un simulateur de moto (10), procédé suivant lequel: a) on détermine un angle de roulis (ARn) de la plateforme de la moto à partir d'au moins une valeur précédente de l'angle de roulis (ARn-1) et d'un angle d'orientation du guidon dit angle guidon (AG); b) on détermine le couple de guidon (CG) en fonction de l'angle guidon (AG), et ainsi qu'en fonction de l'angle de roulis (AR) de telle sorte que le couple de guidon (CG) tende à orienter le guidon (20) dans le sens qui fait tourner la moto vers un côté vers lequel elle est inclinée. Simulateur de moto pour la mise en œuvre de ce procédé. **Machine translation:** Method of determining a handlebar coupled (CG) to be applied to the handlebar (20) of a motorcycle simulator (10), according to which method: (a) determining a roll angle (RNA) of the platform of the motorcycle from at least one previous value of the roll angle (RNA-1) and of an angle of orientation of the handlebar handlebar said angle (AG); (b) the pair of handlebars (CG) is determined as a function of the angle handlebar (AG), and as a function of the roll angle (AR) such that the handlebar coupled (CG) tends to orient the handlebar (20) in the direction that rotates the bike to one side toward which it is sloped. Motorcycle simulator for the implementation of this method.

Classifications:

International (IPC 8-9): G09B9/05 (Advanced/Invention)

CPC: G09B9/058 G09B9/02 G09B9/04 G09B9/05



Family:

Publication number	Publication date	Application number	Application date
FR3020492 A1	20151030	FR20140053836	20140428
FR3020492 B1	20171208	FR20140053836	20140428

Priority:

FR20140053836 20140428

Probable Assignee: INST FRANCAIS DES SCIENCES ET TECHNOLOGIES DES TRANSPORTS DE L'AMENAGEMENT ET DES RESEAUX

Assignee(s): (std): FRANCAIS DES SCIENCES ET TECHNOLOGIES DES TRANSP DE L'AMENAGEMENT ET DES RESEAUX INST ; INST FRANCAIS DES SCIENCES ET TECHNOLOGIES DES TRANSPORTS DE L'AMENAGEMENT ET DES RESEAUX ; INST FRANCAIS DES SCIENCES ET TECHNOLOGIES DES TRANSPORTS DE L'AMENAGEMENT ET DES RESEAUX

Assignee(s): FRANCAIS DES SCIENCES ET TECHNOLOGIES DES TRANSPORTS DE L'AMENAGEMENT ET DES RESEAUX INST

Inventor(s): (std): VIENNE FABRICE ; LOBJOIS REGIS ; CARO STEPHANE ; BENEDETTO SIMONE ; ESPIE STEPHANE

Inventor(s): STEPHANE ESPIE ; STEPHANE CARO ; SIMONE BENEDETTO ; REGIS LOBJOIS ; FABRICE VIENNE

Agent(s): CABINET BEAU DE LOMENIE

Legal status (INPADOC)

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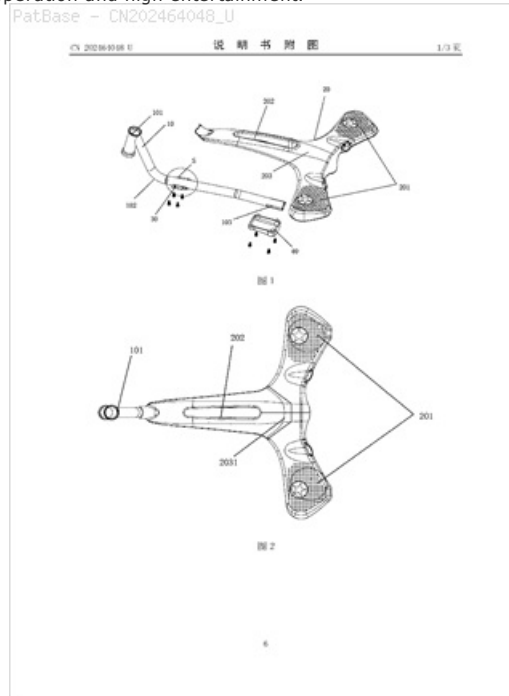
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FR3020492 A1	20151030	LSSES	PLSC	SEARCH REPORT READY	EFFECTIVE DATE : 20151030
FR3020492 A1	20160422	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 3
FR3020492 A1	20170425	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
FR3020492 B1	20171208	LSGT	+	granted / extensions (spc, cpc, pte)	
FR3020492 B1	20180423	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 5
FR3020492 B1	20340428	PEXP		Calculated Patent Term Expiry	

Title: Pedal twisting mechanism and **three-wheeled scooter**

Abstract: The utility model discloses a pedal twisting mechanism, which comprises a pedal, a vehicle frame rotating shaft group, a first fastening piece and a second fastening piece, wherein the pedal comprises two tread parts, a connecting part and an elastic returning part; the connecting part is positioned between the two tread parts and is connected with the elastic returning part; the vehicle frame rotating shaft group comprises a first end, a second end and a bending end; the first end of the vehicle frame rotating shaft group is in sleeve joint with a vehicle head stand pipe; the bending end of the vehicle frame rotating shaft group is fixedly connected with the elastic returning part through the first fastening piece; the second end of the vehicle frame rotating shaft group is connected with the connecting part of the pedal through the second fastening piece in an oscillating manner; and the vehicle frame rotating shaft group can freely deflect and swing in the connecting part along the axes of the vehicle frame rotating shaft group. A pedal twisting structure of the pedal twisting mechanism leads the pedal to return automatically when the pedal inclines leftwards and rightwards during the riding process, the operability and the playability of a scooter are improved, and the pedal twisting mechanism has the characteristics of simplicity in operation and high entertainment.

Classifications:

International (IPC 8-9): B62K17/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN202464048 U	20121003	CN201120569791U	20111230

Priority:

CN201120569791U 20111230

Probable Assignee:

HUAIJIN LIU

Assignee(s): (std):

HUAIJIN LIU

Assignee(s):

LIU HUIJIN

Inventor(s): (std):

HUAIJIN LIU ; YONGPING QIN

Inventor(s):

LIU HUIJIN ; QIN YONGPING

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN202464048 U	20121003	LSGT	+	granted / extensions (spc, cpc, pte)	
CN202464048 U	20121003	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN202464048 U	20170222	LSWD	-EXPY	TERMINATION OF PATENT RIGHT OR UTILITY MODEL	
CN202464048 U	20211230	PEXP		Calculated Patent Term Expiry	

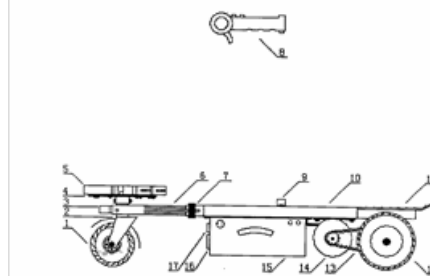
Title: Electric **three-wheeled scooter**

Abstract: The invention relates to an electric tricycle, which is a portable and practical vehicle facilitating traveling. To further decrease the size and weight of a conventional electric bicycle, the electric tricycle applies a design without a tap. A front end and a back end of the electric tricycle are respectively provided with a footboard for two feet to stand during traveling. A frame is arranged between the two footboards; a battery box, a receiving controller and a motor are fixed on the frame. The receiving controller is provided with a remote controlling speed and braking. A front wheel fork is arranged beneath the front footboard and is connected with a front wheel; when the front footboard rotates, the front wheel is driven to rotate, thus controlling the direction of advance. A back footboard is arranged above a tail part of the frame; two rear wheels are connected beneath the frame; a transmission wheel disk is integrated on a rear axle; a belt pulley transmission is connected between the transmission wheel disk and the motor. After a seat, the accessory is installed, the invention can be ridden; the invention can be changed into a small trailer when not in use; besides, which is easy for carrying.

Classifications:

International (IPC 8-9): B62M27/02 (Advanced/Invention);
B62M27/00 (Core/Invention)

PatBase - CN101229840_A



Family:

Publication number	Publication date	Application number	Application date
CN101229840 A	20080730	CN200810046844	20080201

Priority:

CN200810046844 20080201

Probable Assignee:

WEI LI

Assignee(s): (std):

WEI LI

Assignee(s):

LI WEI

Inventor(s): (std):

WEI LI

Inventor(s):

LI WEI

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN101229840 A	20080730	LSPB	+	published / reissued	
CN101229840 A	20080730	LSPB	+C06	PUBLICATION	
CN101229840 A	20111026	LSDW	-C02	DEEMED WITHDRAWAL OF PATENT APPLICATION AFTER PUBLICATION (PATENT LAW 2001)	

Title: POWER SUPPLY ASSEMBLY FOR MOTORIZED VEHICLES

Abstract: A power supply assembly is provided for a Personalized Motorized Vehicle (PMV) including a detachable mounting assembly therefor which facilitates the ease of attachment of a Power Supply Unit (PSU) to a main structural frame of the PMV, provides a positive electrical and structural connection therebetween, and integrates the power supply assembly with the external geometry of the PMV to provide an aesthetically pleasing external appearance. The power supply assembly includes a pair of PSUs, each unit having a housing structure which includes at least one segment projecting from a center body portion thereof. A segment of one PSU unit overlaps a segment of another PSU unit and another segment of one PSU overlaps a portion of the main structural frame. Electrical connectors are disposed in combination with the overlapping housing segments for electrically coupling the PSUs and at least one PSU to the PMV. The power supply, assembly, furthermore includes a retention subassembly for structurally connecting each PSU to the main structural frame. More specifically, the retention subassembly comprises a base support for accepting a power supply unit and having retention walls for in-plane retention of the power supply unit, an aperture disposed in the housing structure and a latching mechanism engaging the aperture for vertically retaining the power supply unit.

Classifications:

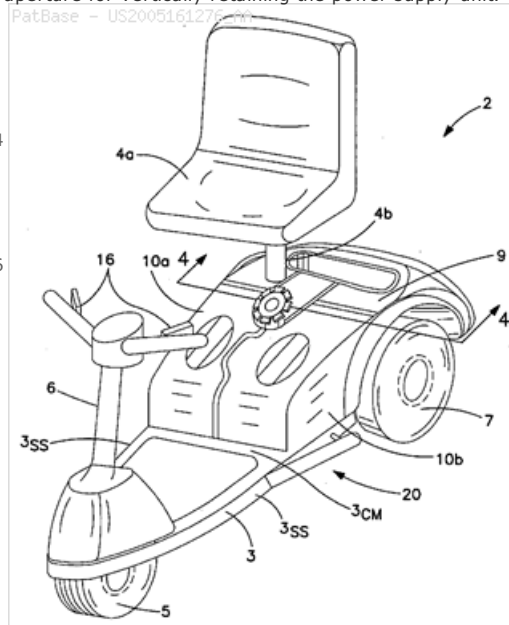
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International (IPC 1-7): B60K1/04 B60K5/00 B60L11/18

CPC: Y10S180/907 Y10S180/908 H01M2/305 B60L2200/24 B62K5/025 H01M2/06 Y02T10/7005 Y02T10/705 Y02T10/7072 Y02T90/124 Y02T90/14 B60K1/04 B60K2001/0455 B60K2001/0466 B60Y2200/84 B60Y2200/86 H01M2/1072 Y02T10/7061 B60L50/64 B60L50/66 B60L53/80 B60L50/52 B60L58/21

European: B60K1/04 B60L11/18L6 B60L11/18E B60L11/18L6 B60L11/18M30 B60L11/18M36 B60L11/18M38 B62K5/025 H01M2/06 H01M2/10C4 H01M2/30C L60K1/04C L60K1/04C3 L60L200/24 L60L200/26 L60Y200/84 L60Y200/86 Y02E60/12 Y02T10/70B Y02T10/70H4 Y02T10/70H6B Y02T10/70J Y02T90/12F Y02T90/14

US: 180/210 180/210S 180/291 180/65.1 180/65.100P 180/68.5 180/68.500S 180/907 180/908



Family:

Publication number	Publication date	Application number	Application date
CA2484346 AA	20050408	CA20042484346	20041008
EP1547852 A2	20050629	EP20040256252	20041008
EP1547852 A3	20060823	EP20040256252	20041008
GB200915761 A0	20091007	GB20090015761	20090909
GB2463563 A1	20100324	GB20090015761	20090909
GB2463563 B2	20120919	GB20090015761	20090909
US2005161276 AA	20050728	US20040960800	20041007
US2009000835 AA	20090101	US20080207099	20080909
US7431109 BB	20081007	US20040960800	20041007
US8267210 BB	20120918	US20080207099	20080909

Priority:

US20030509491P 20031008 US20040960800 20041007 CA20042484346 20041008
US20080207099 20080909

Probable Assignee: PRIDE MOBILITY PRODUCTS CORP

Assignee(s): (std): GOODELL MARK A ; JONES COLBURN L ; KOSCO JAMES M ; PRIDE MOBILITY PRODUCTS CORP

Assignee(s): MANUFACTURERS AND TRADERS TRUST CO

Inventor(s): (std): KOSCO JAMES M ; JONES COLBURN L ; GOODELL MARK A

Inventor(s): GOODELL MARK ; JONES COLBURN ; KOSCO JAMES ; MARK A GOODELL ; JAMES M KOSCO ; COLBURN L JONES

Agent(s): MCCARTHY TETRAULT LLP; DRINKER BIDDLE AND REATH, ATTN: INTELLECTUAL PROPERTY GROUP; DRINKER BIDDLE AND REATH ATTN INTELLECTUAL PROPERTY GROUP; IP GROUP OF DLA PIPER US LLP; DLA PIPER US LLP; FLASTER GREENBERG PC

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CA2484346 AA	20050408	LSPB	+	published / reissued	

CA2484346 AA	20071009	LSLE	-FZDE	DEAD	
EP1547852 A2	20050629	LSPB	+	published / reissued	
EP1547852 A3	20070502	LSFE	+AKX	DESIGNATION FEES PAID	COUNTRY OF REF DOCUMENT : AT COUNTRY OF REF DOCUMENT : BE COUNTRY OF REF DOCUMENT : BG COUNTRY OF REF DOCUMENT : CH COUNTRY OF REF DOCUMENT : CY COUNTRY OF REF DOCUMENT : CZ COUNTRY OF REF DOCUMENT : DE COUNTRY OF REF DOCUMENT : DK COUNTRY OF REF DOCUMENT : EE COUNTRY OF REF DOCUMENT : ES COUNTRY OF REF DOCUMENT : FI COUNTRY OF REF DOCUMENT : FR COUNTRY OF REF DOCUMENT : GB COUNTRY OF REF DOCUMENT : GR COUNTRY OF REF DOCUMENT : HU COUNTRY OF REF DOCUMENT : IE COUNTRY OF REF DOCUMENT : IT COUNTRY OF REF DOCUMENT : LI COUNTRY OF REF DOCUMENT : LU COUNTRY OF REF DOCUMENT : MC COUNTRY OF REF DOCUMENT : NL COUNTRY OF REF DOCUMENT : PL COUNTRY OF REF DOCUMENT : PT COUNTRY OF REF DOCUMENT : RO COUNTRY OF REF DOCUMENT : SE COUNTRY OF REF DOCUMENT : SI COUNTRY OF REF DOCUMENT : SK COUNTRY OF REF DOCUMENT : TR
EP1547852 A3	20071107	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20070224
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GB2463563 B2	20120919	LSGT	+	granted / extensions (spc, cpc, pte)	
GB2463563 B2	20290909	PEXP		Calculated Patent Term Expiry	
US2005161276 AA	20050728	LSPB	+	published / reissued	
US2009000835 AA	20090101	LSPB	+	published / reissued	
US2009000835 AA	20120829	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US7431109 BB	20081007	LSGT	+	granted / extensions (spc, cpc, pte)	
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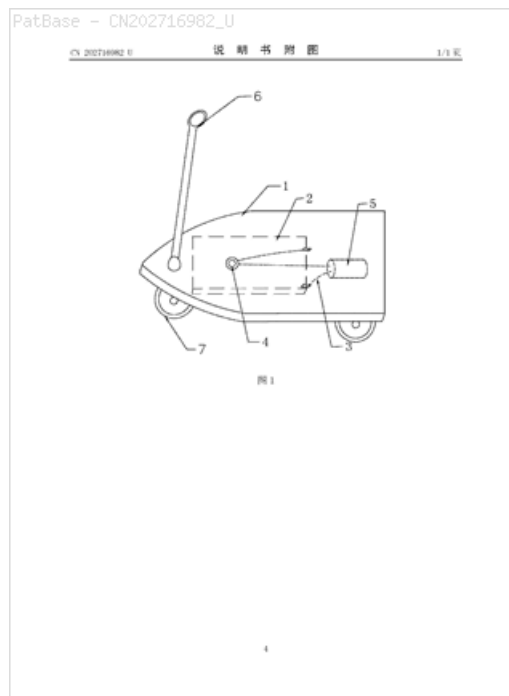
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US7431109 BB	20121105	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7431109 BB	20121127	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20121007
US7431109 BB	20250713	PEXP		Calculated Patent Term Expiry (PTA 279 days)	
US8267210 BB	20120918	LSGT	+	granted / extensions (spc, cpc, pte)	
US8267210 BB	20080909	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRIDE MOBILITY PRODUCTS CORPORATION, PENNSYLVANIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: JONES, COLBURN L.; KOSCO, JAMES M.; GOODELL, MARK A.; REEL/FRA:021501/0575 EFFECTIVE DATE : 20080902
US8267210 BB	20120829	LSGT	PAT1	Patented Case	
US8267210 BB	20160526	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8267210 BB	20300717	PEXP		Calculated Patent Term Expiry (PTA 676 days)	

Title: ELECTRIC **THREE-WHEELED SCOOTER**

Abstract: Source: CN202716982U **Machine translation:** An electric **three-wheeled scooters**, below entertainment fitness products, which comprises a plate member and the roller, both side edges of the front portion of the plate member is symmetrical arcuate side edges at the intersection of the front portion of the plate member into a tip, pointed in one direction lever located behind the rear plate is rectangular internal plate mounted lithium batteries, lithium batteries connected by wires to the switch and the motor switch located on the front portion of the surface of the plate; bottom front plate installation of a front wheel, the directional control lever and the front wheel is connected, the mounting plate rear end around a rear wheel, and a motor connected to the rear wheel. The electric **three-wheeled scooter** forward under its own power, we do not need to continue to maintain its swing plate forward, more suitable for use when skateboarding on the ground is not flat.

Classifications:

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



Family:

Publication number	Publication date	Application number	Application date
CN202716982 U	20130206	CN201220376642U	20120801

Priority:

CN201220376642U 20120801

Probable Assignee:

WU SHUAI

Assignee(s): (std):

WU SHUAI

Inventor(s): (std):

WU SHUAI

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN202716982 U	20130206	LSGT	+	granted / extensions (spc, cpc, pte)	
CN202716982 U	20130206	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN202716982 U	20141008	LSLE	-C17	CESSATION OF PATENT RIGHT	
CN202716982 U	20220801	PEXP		Calculated Patent Term Expiry	

Title: A portable water dispenser for making beverages

Abstract: A portable water dispenser comprising a reservoir 1 for storing water, a pressure pump 8 for pressurising the water supply to make a beverage, and a primer pump 2 for pumping water from the reservoir 1 to the pressure pump 2. Preferably, the dispenser is provided with a heat exchanger 10 to heat the water supply before it is used, forms part of a cappuccino/espresso coffee machine, and the primer pump 2 can be used to pump water from the reservoir 1 to a tap 13, provided between the two pumps, to drain the system.

Classifications:

International (IPC 8-9): A47J31/34 A47J31/46

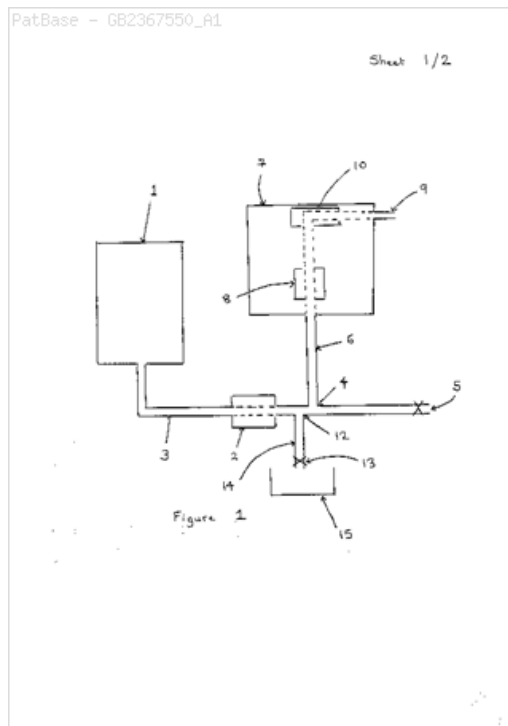
A47J31/54 (Advanced/Invention);

A47J31/24 A47J31/44 (Core/Invention)

International (IPC 1-7): A47J31/00 A47J31/36 B67D1/00 B67D1/10

CPC: A47J31/34 A47J31/46 A47J31/542

European: A47J31/34 A47J31/46 A47J31/54A



Family:

Publication number	Publication date	Application number	Application date
GB200024207 A0	20001115	GB20000024207	20001003
GB2367550 A1	20020410	GB20000024207	20001003

Priority:

GB20000024207 20001003

Probable Assignee: SMITH JONATHAN M

Assignee(s): (std): SMITH JONATHAN M ; SMITH JONATHAN MARK

Assignee(s): JONATHAN MARK SMITH

Inventor(s): (std): SMITH JONATHAN MARK

Inventor(s): JONATHAN MARK SMITH

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
GB2367550 A1	20020410	LSPB	+	published / reissued	
GB2367550 A1	20050817	LSWD	-WAP	APPLICATION WITHDRAWN, TAKEN TO BE WITHDRAWN OR REFUSED ** AFTER PUBLICATION UNDER SECTION 16(1)	

Title: **Three Wheel Scooter** (Machine translation)

Abstract: Source: RU62887U

Machine translation: (Claim 1) 1. **Three-wheeled scooter**, comprising a housing, steering wheel, the front fork to the steering wheel and the two beams, each with one side hinged to the back of the fork with the appropriate rear wheel, and the other is hinged to the housing, wherein one side of each beam equipped with a clamp, which is pivotally connected to a respective rear fork.

Classifications:

International (IPC 8-9): B62M1/00 (Advanced/Invention);
B62M1/00 (Core/Invention)

Family:

Publication number	Publication date	Application number	Application date
RU62887 U1	20070510	RU20060145424U	20061221

Priority:

RU20060145424U 20061221

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
RU62887 U1	20070510	LSGT	+	granted / extensions (spc, cpc, pte)	
RU62887 U1	20121020	LSLE	-MM1K	UTILITY MODEL HAS BECOME INVALID (NON-PAYMENT OF FEES)	EFFECTIVE DATE : 20111222
RU62887 U1	20141221	PEXP		Calculated Patent Term Expiry	

Title: VARIABLE-SPEED CONTROL FOR VEHICLE

Abstract: An electric scooter is disclosed that has a propulsion system switchable between two modes, one of which allows a higher maximum speed than the other. The mode is selected by a user operated button so constructed that the high-speed mode is selected only while the user continues to operate the switch. A steering angle sensor and a tilt switch are provided, which prevent the user from selecting the high-speed mode while steering sharply or while going down or across steep slopes.

Classifications:

International (IPC 8-9): B60K26/00 B60K31/00 B60L15/20 B62K11/00 B62K5/04 B62M7/00 (Advanced/Invention);

A61G5/04 (Advanced/Non-invention);

B60K26/00 B60K31/00 B60L15/20 B62K11/00 B62K5/00

B62M7/00 (Core/Invention)

International (IPC 1-7): A61G5/04 B60K1/00 B60K26/00 B60K31/00 B60L15/20 B62K11/00 B62K5/04

CPC: Y02T10/7275 Y10S180/908 B62M7/00 B62K5/025 B62K2204/00

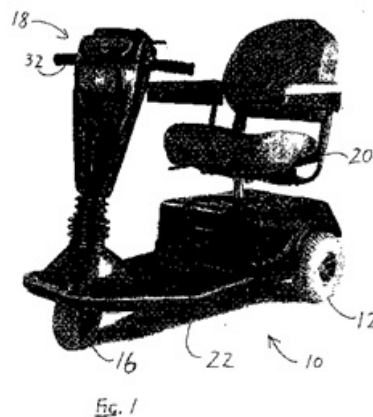
European: B62K5/025 B62M23/02B2 B62M7/00 L62K204/00

Y02T10/72D4

US: 180/170 180/171 180/171S 180/216 180/65.1 180/65.8 180/908

PatBase - US2002003055_AA

Patent Application Publication Jan. 10, 2002 Sheet 1 of 3 US 2002/003055 A1



Family:

Publication number	Publication date	Application number	Application date
AU200143765 A1	20011115	AU20010043765	20010508
AU200143765 A5	20011115	AU20010043765D	20010508
AU770356 B2	20040219	AU20010043765	20010508
CA2346604 AA	20011108	CA20012346604	20010508
EP1153590 A2	20011114	EP20010304066	20010504
EP1153590 A3	20030528	EP20010304066	20010504
US2002003055 AA	20020110	US20010849883	20010501
US6491122 BB	20021210	US20010849883	20010501

Priority:

US20000202457P 20000508 US20010849883 20010501 CA20012346604 20010508

Probable Assignee: PRIDE MOBILITY PRODUCTS CORP

Assignee(s): (std): LEITNER GEORGE ; MEUSER SCOTT ; PRIDE MOBILITY PRODUCTS CORP

Assignee(s): MANUFACTURERS AND TRADERS TRUST CO

Inventor(s): (std): LEITNER GEORGE ; MEUSER SCOTT ; SCOTT MEUSER ; GEORGE LEITNER

Agent(s): MALLESONS STEPHEN JAKUES; KING AND WOOD MALLESONS; BERESKIN AND PARR

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AU200143765 A1	20011115	LSPB	+	published / reissued	
AU770356 B2	20040219	LSGT	+	granted / extensions (spc, cpc, pte)	
AU770356 B2	20040617	LSGT	+FGA	LETTERS PATENT SEALED OR GRANTED (STANDARD PATENT)	
AU770356 B2	20210508	PEXP		Calculated Patent Term Expiry	

CA2346604 AA	20011108	LSPB	+	published / reissued	
CA2346604 AA	20060508	LSLE	-FZDE	DEAD	
EP1153590 A2	20011114	LSPB	+	published / reissued	
EP1153590 A2	20030319	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : PRIDE MOBILITY PRODUCTS, CORPORATION
EP1153590 A2	20030319	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : MEUSER, SCOTT
EP1153590 A2	20030402	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : PRIDE MOBILITY PRODUCTS CORPORATION
EP1153590 A3	20031022	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20030825
EP1153590 A3	20040218	LSFE	+AKX	DESIGNATION FEES PAID	COUNTRY OF REF DOCUMENT : DE COUNTRY OF REF DOCUMENT : FR COUNTRY OF REF DOCUMENT : GB COUNTRY OF REF DOCUMENT : IT COUNTRY OF REF DOCUMENT : NL
EP1153590 A3	20041124	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20041012
EP1153590 A3	20050518	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20050330
US2002003055 AA	20020110	LSPB	+	published / reissued	
US6491122 BB	20021210	LSGT	+	granted / extensions (spc, cpc, pte)	
US6491122 BB	20010803	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRIDE MOBILITY PRODUCTS CORPORATION, PENNSYLVANIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:LEITNER, GEORGE; MEUSER, SCOTT; REEL/FRAME:012058/0270 EFFECTIVE DATE : 20010716
US6491122 BB	20060522	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US6491122 BB	20090318	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MANUFACTURERS AND TRADERS TRUST COMPANY, NEW YORK OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:PRIDE MOBILITY PRODUCTS CORPORATION; REEL/FRAME:022408/0671 EFFECTIVE DATE : 20081107
US6491122 BB	20090318	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : MANUFACTURERS AND TRADERS TRUST COMPANY, NEW YORK OLDPARTY : SECURITY AGREEMENT; ASSIGNOR:PRIDE MOBILITY PRODUCTS CORPORATION; REEL/FRAME:022408/0671 EFFECTIVE DATE : 20081107
US6491122 BB	20100512	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US6491122 BB	20141210	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US6491122 BB	20150105	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US6491122 BB	20150105	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US6491122 BB	20150127	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20141210

US6491122 BB	20210501	PEXP	Calculated Patent Term Expiry
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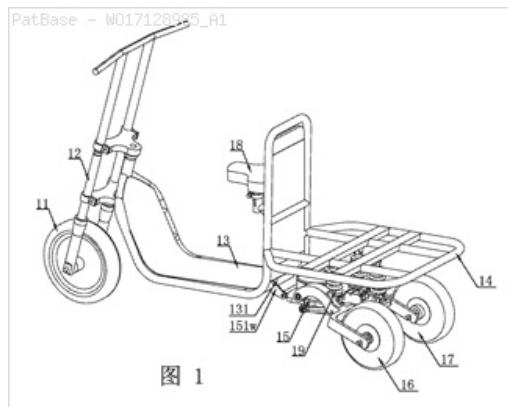
Title: WHEEL ASSEMBLY STRUCTURE AND VEHICLE

Abstract: A wheel assembly structure (15) for assembling a first wheel (16), a second wheel (17) and a main vehicle frame (13) comprises: a bottom plate connecting block (151); an abrasive disc assembly (152); a first wheel support (153); a second wheel support (154); a first position-limiting member (155); and a second position-limiting member (156). The bottom plate connecting block (151) is connected to the main vehicle frame (13). The abrasive disc assembly (152) is connected to the bottom plate connecting block (151). The abrasive disc assembly (152) has a first end and a second end which are opposite to each other. The first wheel support (153) has one end connected and fixed to the first wheel (16) and the other end movably connected to the first end of the abrasive disc assembly (152). The second wheel support (154) has one end connected and fixed to the second wheel (17) and the other end movably connected to the second end of the abrasive disc assembly (152). The first position-limiting member (155) has one end connected to the bottom plate connecting block (151) and the other end connected to the first wheel support (153). The second position-limiting member (156) has one end connected to the bottom plate connecting block (151) and the other end connected to the second wheel support (154). A vehicle provided with the wheel assembly structure does not capsize easily.

Classifications:

International (IPC 8-9): B62K25/04 B62K25/12 B62K25/20 B62K5/02 B62K5/027 B62K5/06 (Advanced/Invention)

CPC: B62K25/20 B62K25/04 B62K5/02 B62K5/027 B62K5/06

**Family:**

Publication number	Publication date	Application number	Application date
CN105501373 A	20160420	CN201610062312	20160129
CN105501373 B	20170531	CN201610062312	20160129
CN106741520 A	20170531	CN201611259658	20160129
CN106741520 B	20171114	CN201611259658	20160129
CN106828732 A	20170613	CN201611264524	20161230
CN205524683 U	20160831	CN201620090608U	20160129
CN206427182 U	20170822	CN201621490093U	20161230
WO17128985 A1	20170803	WO2017CN071344	20170117

Priority:

CN201610062312 20160129 CN201611259658 20160129 CN201620090608U 20160129
CN201611264524 20161230 CN201621490093U 20161230

Probable Assignee: SHENZHEN XLT INT ELECTRONIC CO LTD

Assignee(s): (std): SHENZHEN XLT INT ELECTRONIC CO LTD ; X L T INT ELECTRONICS CO LTD ; XLT INT ELECTRONICS CO LTD

Assignee(s): SHENZHEN XLT INT ELECTRONIC CO ; XLT INT ELECTRONICS CO

Inventor(s): (std): LIU ANTANG ; HE JIANQIANG

Agent(s): SHENZHEN I AND W INTELLECTUAL PROPERTY CORP

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 JP KE KG KH KM KN KP KR KW 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)

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Patent	Date recorded	Event group	Code	Event	Details
CN105501373 A	20160420	LSPB	+	published / reissued	
CN105501373 A	20160420	LSPB	+C06	PUBLICATION	
CN105501373 A	20170531	LSGT	+GR01	PATENT GRANT	
CN105501373 B	20170531	LSGT	+	granted / extensions (spc, cpc, pte)	
CN105501373 B	20360129	PEXP		Calculated Patent Term Expiry	
CN106741520 A	20170531	LSPB	+	published / reissued	
CN106741520 A	20170531	LSPB	PB01	PUBLICATION	

CN106741520 B	20171114	LSGT	+	granted / extensions (spc, cpc, pte)	
CN106741520 B	20171114	LSGT	+GR01	PATENT GRANT	
CN106741520 B	20360129	PEXP		Calculated Patent Term Expiry	
CN106828732 A	20170613	LSPB	+	published / reissued	
CN106828732 A	20170613	LSPB	PB01	PUBLICATION	
CN205524683 U	20160831	LSGT	+	granted / extensions (spc, cpc, pte)	
CN205524683 U	20160831	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN205524683 U	20170531	LSWD	-AV01	PATENT RIGHT ACTIVELY ABANDONED	
CN205524683 U	20260129	PEXP		Calculated Patent Term Expiry	
CN206427182 U	20170822	LSGT	+	granted / extensions (spc, cpc, pte)	
CN206427182 U	20170822	LSGT	+GR01	PATENT GRANT	
CN206427182 U	20261230	PEXP		Calculated Patent Term Expiry	
WO17128985 A1	20170803	LSPB	+	published / reissued	
WO17128985 A1	20180731	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO17128985 A1	20190220	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 17743600 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :

Title: RIDING CLOTHING AND ITS LIGHT-EMITTING METHOD

Abstract: PROBLEM TO BE SOLVED: To provide a means for improving safety by improving the visibility of a lamp such as a brake lamp and a direction indicator in a vehicle having a form where an occupant rides on it in a state of being visible from the outside like a two-wheeled motor vehicle or a **three-wheeled scooter**. SOLUTION: This riding clothing is provided with: a light-emitting means 2 capable of emitting light in a red-based color tone on a surface on the back side of the riding clothing 1; a means for performing an operation for emitting light or increasing light in conjunction with the operation of a brake device provided in a vehicle 13 on which a wearer of the riding clothing 1 rides or with the lighting of a brake lamp 11 provided for it; light-emitting means 3 each capable of emitting light in an yellow-based or orange-based color tone on right and left side surfaces of the riding clothing 1 or at positions close to the right and left side surfaces thereof; and a means for causing the light-emitting means 3 on the same right or left side as an operated direction indicator 12 to perform an operation for emitting light, intensifying the light, emitting blinking light, or repeating the increase of light and the decrease of light in conjunction with the operation of a direction indicator 12 provided for the vehicle 13 on which the wearer of the riding clothing 1 rides.

Classifications:

International (IPC 8-9): A41D13/00 B60Q1/26 B62J6/00 B62J6/04

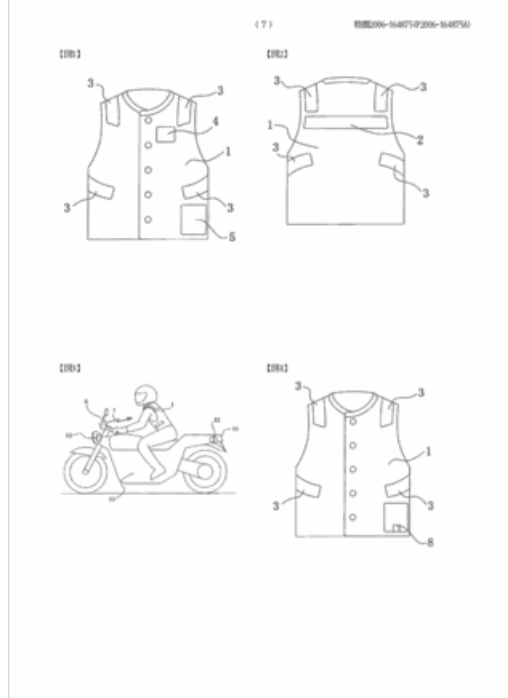
F21L4/00 (Advanced/Invention);

A41D13/00 B60Q1/26 B62J6/00 F21L4/00 (Core/Invention)

JP F-Term: 3B011 3B011/AB16 3B011/AC12 3D115 3K037 3K039 3K039/LA07 3K039/LB05 3K039/LC05 3K039/MD09 3K339 3K339/AA25 3K339/AA29 3K339/BA09 3K339/BA22 3K339/CA12 3K339/CA13 3K339/DA01 3K339/DA02 3K339/EA05 3K339/EA09 3K339/FA02 3K339/GB21 3K339/GB30 3K339/JA02 3K339/JA26 3K339/KA06 3K339/KA11 3K339/MC58 3K339/MC72

JP F-Index: A41D13/00/Z A41D13/01 B60Q1/26/A B62J6/00/A B62J6/00/G B62J6/00/Z B62J6/04 F21L11/00/F F21L4/00/521

PatBase - JP2006164875_A2

**Family:**

Publication number	Publication date	Application number	Application date
JP2006164875 A2	20060622	JP20040357881	20041210

Priority:

JP20040357881 20041210

Probable Assignee:

SHIMOOKA HIDEHITO

Assignee(s): (std):

SHIMOOKA HIDEHITO

Inventor(s): (std):

SHIMOOKA HIDEHITO

Legal status (INPADOC)

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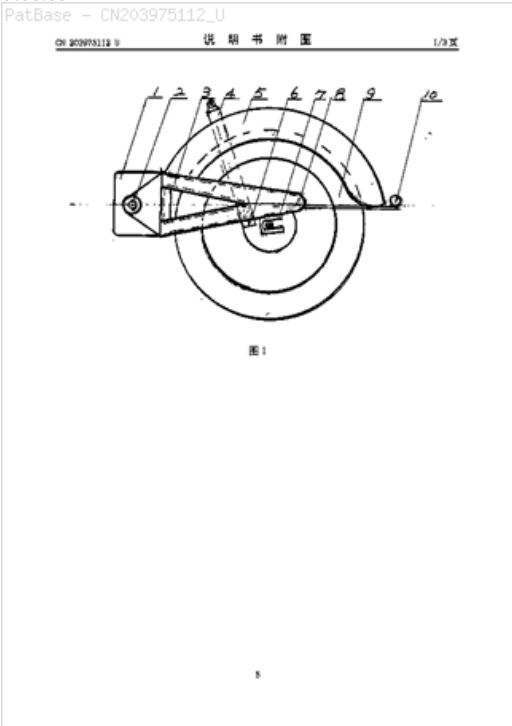
Patent	Date recorded	Event group	Code	Event	Details
JP2006164875 A2	20060622	LSPB	+	published / reissued	
JP2006164875 A2	20071113	LSER	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20071113
JP2006164875 A2	20080318	LSRV	-A02	DECISION OF REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A02 EFFECTIVE DATE : 20080318

Title: NOVEL REAR WHEEL SUSPENSION ASSEMBLY OF THREE-WHEELED SCOOTER

Abstract: The utility model relates to a novel rear wheel suspension assembly of a three-wheeled scooter. A combined structure combining a double u-type frame and a plurality of triangles is adopted, two rear wheels are installed between the two sides of a u-type suspension main beam and two inner triangular supports respectively, and buffering bolsters are installed at the front ends of the two sides of the u-type suspension main beam. A bumper component is installed on the rear portions of the inner triangular supports. Due to the structure, the strength of the whole rear wheel suspension assembly is improved, the appearance is improved, and the driving safety of a driver is effectively protected.

Classifications:

International (IPC 8-9): B62K25/20 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN203975112 U	20141203	CN201420265430U	20140523

Priority:

CN201420265430U 20140523

Probable Assignee:

DENG WEIQIANG

Assignee(s): (std):

DENG WEIQIANG

Inventor(s): (std):

DENG WEIQIANG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN203975112 U	20141203	LSGT	+	granted / extensions (spc, cpc, pte)	
CN203975112 U	20141203	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN203975112 U	20170804	LSLE	-CF01	TERMINATION OF PATENT RIGHT DUE TO NON-PAYMENT OF ANNUAL FEE	
CN203975112 U	20240523	PEXP		Calculated Patent Term Expiry	

Title: PEDAL TYPE **THREE WHEEL SCOOTER**

Abstract: A pedal type **three-wheeled scooter** comprises a horizontal slide board and a handle vertically fixed on the slide board, wherein a front wheel is disposed on the front of the lower of the slide board, two rear wheels are disposed on the back of the lower of the slide board through a rear shaft which is divided into two parts with a clutch on each, a pair of pedals which are provided asymmetrically on the both sides of the slide board rear portion are provided on the front with connecting levers which are connected by hinge with the pedals and the slide board, the rear of pedals are respectively connected by hinge with the lever ends of a W-shaped connecting lever of which the middle end is connected by hinge under the slide board and provided with a driving output shaft which is connected with the input shaft connecting with a gear transmission of which the output shaft end is fixed with a driving bevel gear engaged with the driven bevel gear provided on the inside shaft ends of the two rear wheel shaft. A steering driving ring wire is connectedly provided under the slide board, on the lower shaft end of the handle and on the front wheel fixing vertical shaft. The utility model has the multi functions of entertaining, building body, loading and riding instead of walk, and also has the advantages of simple structure and stable operation.

Classifications:

International (IPC 8-9): B62K17/00 B62M1/00 (Advanced/Invention);
B62K17/00 B62M1/00 (Core/Invention)

PatBase - CN2902877_Y



Family:

Publication number	Publication date	Application number	Application date
CN2902877 Y	20070523	CN200620023659U	20060303

Priority:

CN200620023659U 20060303

Probable Assignee:

CHU XIAOMING

Assignee(s): (std):

CHU XIAOMING

Inventor(s): (std):

CHU XIAOMING

Inventor(s):

XIAOMING CHU

Legal status (INPADOC)

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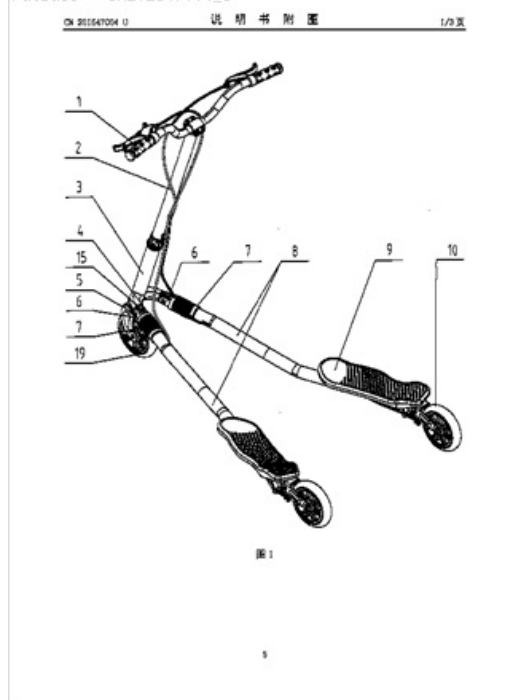
Patent	Date recorded	Event group	Code	Event	Details
CN2902877 Y	20070523	LSGT	+	granted / extensions (spc, cpc, pte)	
CN2902877 Y	20070523	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN2902877 Y	20110511	LSLE	-C17	CESSATION OF PATENT RIGHT	
CN2902877 Y	20160303	PEXP		Calculated Patent Term Expiry	

Title: **Three-wheeled scooter**

Abstract: The utility model discloses a **three-wheeled scooter**, which is characterized in that foldable devices are arranged between left and right connectors (4) and corresponding left and right foot pipes (8) respectively; each foldable device includes a connecting seat (6), a slide sleeve (7), pin cotters (11), and a spring (12), wherein one end of each connecting seat (6) is tightly combined with the foot pipes (8) correspondingly; the other ends thereof are hinged on the flat squares of the connectors (4); the slide sleeves (7) are sleeved on the flat squares of the connectors (4), the connecting seats (6) and the foot pipes (8); kidney grooves (17) with the pin cotters (11) are correspondingly formed on the connecting seats (6) and the foot pipes (8); two ends of each pin cotter (11) are correspondingly arranged on one of the slide sleeves (7); and a spring (12) is arranged at the center hole of each connecting seat (6) and is propped against each cotter pin (11). Due to the adoption of the structure, the **three-wheeled scooter** solve the defects of complicated and strenuous operation of the foldable devices, and has the advantages of simple and reasonable structure, convenient folding operation, safe and reliable use, small noise, long service life, and the like.

Classifications:**International (IPC 8-9):** B62K15/00 (Advanced/Invention)

PatBase - CN201647004_U

**Family:**

Publication number	Publication date	Application number	Application date
CN201647004 U	20101124	CN201020104937U	20100126

Priority:

CN201020104937U 20100126

Probable Assignee:

LIUXIANG WU

Assignee(s): (std):

LIUXIANG WU

Assignee(s):

WU LIUXIANG

Inventor(s): (std):

LIUXIANG WU

Inventor(s):

WU LIUXIANG

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

Patent	Date recorded	Event group	Code	Event	Details
CN201647004 U	20101124	LSGT	+	granted / extensions (spc, cpc, pte)	
CN201647004 U	20101124	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN201647004 U	20200126	PEXP		Calculated Patent Term Expiry	

Title: **Three-wheeled scooter** luggage

Abstract: The utility model discloses a **three-wheeled scooter** luggage, which comprises a **three-wheeled scooter** (1) and a luggage (2), the direction axis of the **three-wheeled scooter** (1) is perpendicular to foot plates, and the luggage (2) is fixed between the foot plates. The structure of the **three-wheeled scooter** luggage is simple, the design is ingenious, the **three-wheeled scooter** luggage is highly practical, the method which integrates the functions of a conventional luggage and a three-wheeled swing scooter together brings convenience to the daily outing of people, and moreover, after use, the **three-wheeled scooter** of the **three-wheeled scooter** luggage can be dismantled as well, and is used by people for daily recreation and exercise.

Classifications:

International (IPC 8-9): B62J9/00 B62K5/02 (Advanced/Invention)

PatBase - CN202541714_U

CN 202541714 U 说明书附图 1/3 页

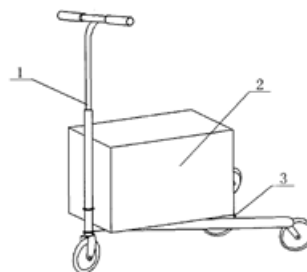


图 1

Family:

Publication number	Publication date	Application number	Application date
CN202541714 U	20121121	CN201220186731U	20120428

Priority:

CN201220186731U 20120428

Probable Assignee:

FEIHONG LIAO

Assignee(s): (std):

FEIHONG LIAO

Assignee(s):

LIAO FEIHONG

Inventor(s): (std):

FEIHONG LIAO

Inventor(s):

LIAO FEIHONG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN202541714 U	20121121	LSGT	+	granted / extensions (spc, cpc, pte)	
CN202541714 U	20121121	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN202541714 U	20150624	LSLE	-C17	CESSATION OF PATENT RIGHT	
CN202541714 U	20220428	PEXP		Calculated Patent Term Expiry	

Title: A Laterally Tilting Three-Wheeled Vehicle

Abstract: The vehicle possesses two steering front wheels (21A, 21 B) and a viscoelastic suspension system for said wheels such that lateral tilting of the vehicle is accompanied by an equal tilting of the steering axes (MA-MA, MB-MB) of the wheels. Each steering wheel (21A; 21B) is connected to the frame by means of an articulated quadrilateral comprising an upright (17A; 17B) and suspension arms (11A, 13A; 11B, 13B).

Classifications:

International (IPC 8-9): B62K5/04 B62K5/05

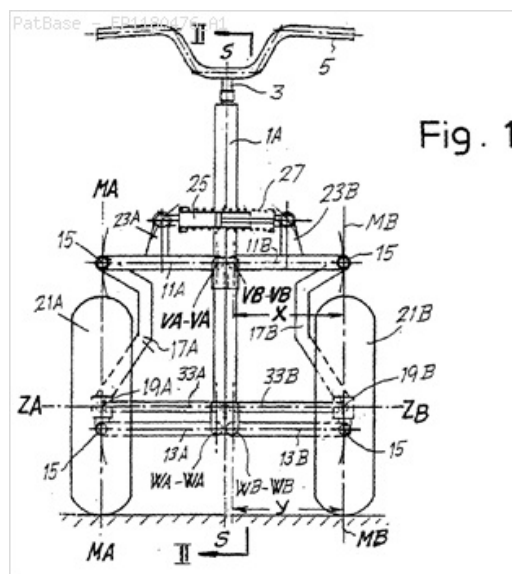
B62K5/08 (Advanced/Invention);

B62K5/00 (Core/Invention)

International (IPC 1-7): B62K5/04 B62K5/08

CPC: B60G2300/122 B62K5/05 B62K5/08 B62K5/10

European: B62K5/05 B62K5/08 B62K5/10 L60G300/122



Family:

Publication number	Publication date	Application number	Application date
AT271490 E	20040815	AT20000830572T	20000810
DE60012319 D1	20040826	DE20006012319	20000810
DE60012319 D1	20040826	DE20006012319T	20000810
DE60012319 T2	20050804	DE20006012319T	20000810
EP1180476 A1	20020220	EP20000830572	20000810
EP1180476 B1	20040721	EP20000830572	20000810
ES2223443 T3	20050301	ES20000830572T	20000810

Priority:

EP20000830572 20000810

Probable Assignee: DOVERI MARCO

Assignee(s): (std): DOVERI MARCO

Inventor(s): (std): DOVERI MARCO

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
AT271490 E	20040815	LSGT	+	granted / extensions (spc, cpc, pte)	
AT271490 E	20050115	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT271490 E	20200810	PEXP		Calculated Patent Term Expiry	
DE60012319 D1	20060720	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE60012319 D1	20060720	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DE60012319 D1	20150303	LSDW	-R119	APPLICATION DEEMED WITHDRAWN, OR IP RIGHT LAPSED, DUE TO NON-PAYMENT OF RENEWAL FEE	
DE60012319 D1	20150303	LSDW	-R119	APPLICATION DEEMED WITHDRAWN, OR IP RIGHT LAPSED, DUE TO	

				NON-PAYMENT OF RENEWAL FEE		
DE60012319 T2	20050804	LSGT	+	granted / extensions (spc, cpc, pte)		
DE60012319 T2	20060720	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION		
DE60012319 T2	20200810	PEXP		Calculated Patent Term Expiry		
EP1180476 A1	20020220	LSPB	+	published / reissued		
EP1180476 A1	20020220	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20010522	
EP1180476 A1	20021106	LSFE	+AKX	DESIGNATION FEES PAID	TEXT : AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE	
EP1180476 B1	20040721	LSGT	+	granted / extensions (spc, cpc, pte)		
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EP1180476 B1	20041021	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	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 : 20041021
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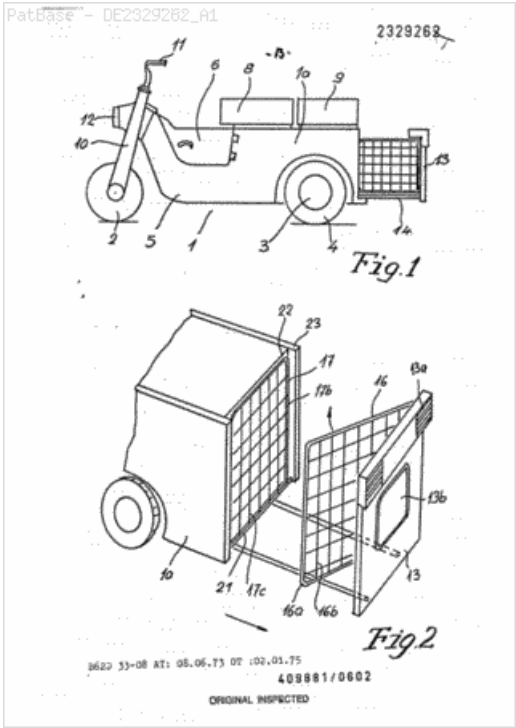
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EP1180476 B1	20150303	LSDW	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R119 REF DOCUMENT NUMBER : 60012319 COUNTRY OF REF DOCUMENT : DE
EP1180476 B1	20150331	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1180476 B1	20150429	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20140810
EP1180476 B1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140831
EP1180476 B1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140831
EP1180476 B1	20150528	LSDW	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R119 REF DOCUMENT NUMBER : 60012319 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20150303
EP1180476 B1	20150731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150303
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EP1180476 B1	20151030	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140811
EP1180476 B1	20160603	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20160429
EP1180476 B1	20160831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20150831
EP1180476 B1	20200810	PEXP		Calculated Patent Term Expiry	
ES2223443 T3	20050301	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2223443 T3	20200810	PEXP		Calculated Patent Term Expiry	

Title: ADDITIONAL LUGGAGE STORAGE SPACE ON VEHICLE - COMPRISES SURFACE AND FOLDING WALLS EXTRACTED FROM REAR OF SMALL TRICYCLE VEHICLE

Abstract: The storage frame is withdrawn from the rear wall of the three-wheeled vehicle by lower guide rods which can serve as supports for the frame floor swung about a lower horizontal axis. The two side walls o the frame are swung out from the rear wall about two vertical axes along the upright edges of the rear wall. In another design the loading surface has an L-shaped frame which can be folded away into a recess below the pillion seat. The vehicle is pref. of the narrow track tricycle type, with handlebars steering a single front wheel.

Classifications:

International (IPC 8-9): B60R5/04 B60R9/00 B62J7/00 (Advanced/Invention); B60R5/00 B60R9/00 B62J7/00 (Core/Invention)
International (IPC 1-7): B62D33/08 B62D61/08
CPC: B60R5/041 B62J7/00
European: B60R5/04A B60R9/00 B62J7/00



Family:

Publication number	Publication date	Application number	Application date
DE2329262 A1	19750102	DE19732329262	19730608

Priority:

DE19732329262 19730608

Probable Assignee: NITSCHKE PETER
Assignee(s): (std): NITSCHKE PETER
Assignee(s): NITSCHKE PETER 4235 SCHERMBECK
Inventor(s): (std): NITSCHKE PETER
Inventor(s): NITSCHKE PETER 4235 SCHERMBECK

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE2329262 A1	19750102	LSPB	+	published / reissued	

Title: SELF-PROPELLED **THREE-WHEELED SCOOTER** AND BIKE FOR WHEELCHAIR

Abstract: PROBLEM TO BE SOLVED: To provide a **three-wheeled scooter** and a bike which are a device to enable a driver to ride with a wheelchair safely and easily and to ensure stability during the travel, provide the pleasure of steering to a driver, and expand a living area of a user of the wheelchair. SOLUTION: A motor-driven rack-and-pinion is mounted between a front frame and a rear power unit of the **three-wheeled scooter** so that an inclination to the right and left is intentionally restored by an operation of a button on the left of the driver. The driver rides on the scooter from the side of the wheelchair since a slide table which enables the loading of the wheelchair in the longitudinal direction between a front wheel steering part and the rear power unit and moves to the left (in case of left-hand traffic) is mounted. The vehicle is provided at a low price by modifying a commercially available vehicle.

Classifications:

International (IPC 8-9): A61G3/00 B62K5/02

B62K5/04 (Advanced/Invention);

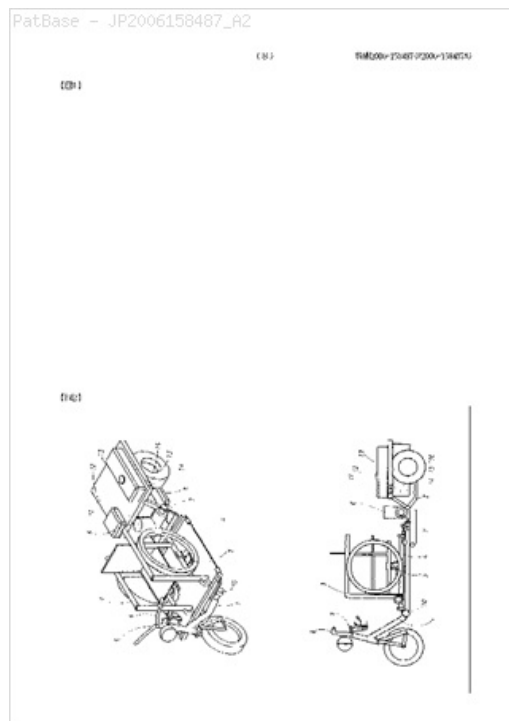
A61G3/00 B62K5/00 (Core/Invention)

JP F-Term: 3D011 3D011/AA04 3D011/AC04 3D011/AD21 4C039

JP F-Index: A61G3/00/501 A61G3/00/503 B62K3/16 B62K5/00/D

B62K5/02/B B62K5/02/E B62K5/025 B62K5/04/C B62K5/06 B62K5/10

B62K7/04



Family:

Publication number	Publication date	Application number	Application date
JP2006158487 A2	20060622	JP20040350878	20041203
JP3731162 B1	20060105	JP20040350878	20041203

Priority:

JP20040350878 20041203

Probable Assignee:

HANAOKA TADATAKA

Assignee(s): (std):

HANAOKA TADATAKA

Inventor(s): (std):

HANAOKA TADATAKA

Legal status (INPADOC)

[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
JP2006158487 A2	20060622	LSPB	+	published / reissued	
JP2006158487 A2	20081021	LSLE	-LAPS	CANCELLATION BECAUSE OF NO PAYMENT OF ANNUAL FEES	
JP3731162 B1	20060105	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3731162 B1	20050920	LSGT	+TRDD	DECISION OF GRANT OR REJECTION WRITTEN	
JP3731162 B1	20051020	LSFE	+A61	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE)	TEXT : JAPANESE INTERMEDIATE CODE: A61 EFFECTIVE DATE : 20050928
JP3731162 B1	20051021	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150

JP3731162 B1	20241203	PEXP	Calculated Patent Term Expiry
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Title: THREE-WHEELED MOTORIZED VEHICLE

Abstract: A three-wheeled motorized vehicle with a reverse trike or tadpole configuration is described. The vehicle includes a rear frame coupled to a single rear wheel and a front frame that is operatively coupled to a pair of front wheels mounted on opposite sides of the front frame. The rear frame is pivotably coupled to the front frame by a first coupling located along a top portion of the front frame and a second coupling located along a bottom portion of the front frame. The first coupling is located forward of the second coupling to provide a negative rake angle. Handlebars affixed to the front frame pivot the front frame, an engine mounted therein, and the front wheels about the first and second couplings. The location of the first and second couplings also causes the rear frame to lean out of a vertical plane when the front frame is pivoted.

Classifications:

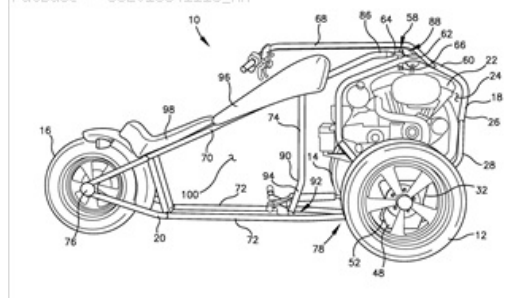
International (IPC 8-9): B62D61/06 B62K11/00

B62K5/06 (Advanced/Invention)

CPC: B62K5/027 B62K5/05

US: 180/264 280/210 280/281.1

PatBase - US2013341113_AA



Family:

Publication number	Publication date	Application number	Application date
US2013341113 AA	20131226	US20120529251	20120621
US8646794 BB	20140211	US20120529251	20120621

Priority:

US20120529251 20120621

Probable Assignee:

MULLIN CRAIG

Assignee(s): (std):

MULLIN CRAIG

Inventor(s): (std):

MULLIN CRAIG

Agent(s):

ERICKSON KERNELL

Legal status (INPADOC)

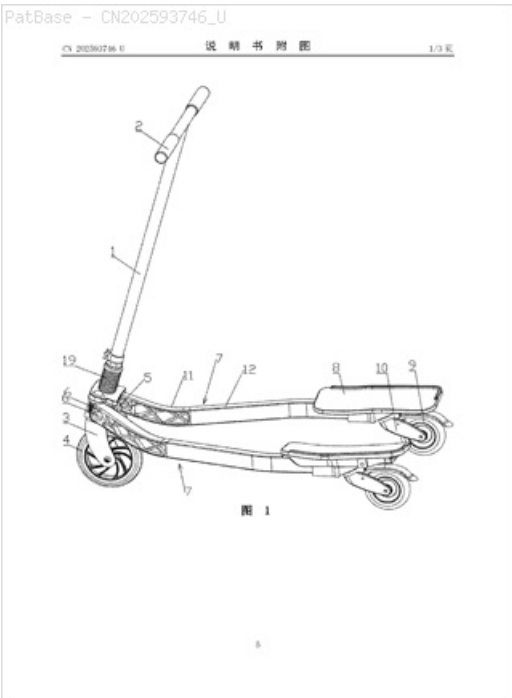
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Patent	Date recorded	Event group	Code	Event	Details
US2013341113 AA	20131226	LSPB	+	published / reissued	
US2013341113 AA	20140122	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US8646794 BB	20140211	LSGT	+	granted / extensions (spc, cpc, pte)	
US8646794 BB	20140122	LSGT	PAT1	Patented Case	
US8646794 BB	20170810	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8646794 BB	20320621	PEXP		Calculated Patent Term Expiry	

Title: **THREE-WHEELED SCOOTER**

Abstract: The utility model discloses a **three-wheeled scooter**. The **three-wheeled scooter** is characterized in that handlebars are arranged above a handlebar rod; a front fork is arranged at the lower part of the handlebar rod; a front wheel is positioned in the front fork; a sleeve pipe is arranged on the handlebar rod; the handlebar rod and the sleeve pipe can relatively rotate; a connecting frame is arranged on the sleeve pipe; two connecting beams are connected with the handlebar rod through the connecting frame and the sleeve pipe; pedals are arranged at the rear ends of the connecting beams; rear wheels are positioned on a rear wheel frame and below the pedals; and at least part of the connecting beams are elastic beams. As at least part of the connecting beams are elastic beams, the elastic beams can provide return elastic forces when the pedals are opened outwards or closed inwards, so that an external force required to be applied to the pedals is reduced, which enables the **three-wheeled scooter** to be more easily ridden.

Classifications:
International (IPC 8-9): B62K17/00 B62M1/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN202593746 U	20121212	CN201220272008U	20120611

Priority:

CN201220272008U 20120611

Probable Assignee: YAN KEXUE

Assignee(s): (std): YAN KEXUE

Inventor(s): (std): YAN KEXUE

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN202593746 U	20121212	LSGT	+	granted / extensions (spc, cpc, pte)	
CN202593746 U	20121212	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN202593746 U	20160803	LSWD	-EXPY	TERMINATION OF PATENT RIGHT OR UTILITY MODEL	
CN202593746 U	20220611	PEXP		Calculated Patent Term Expiry	

Title: SCOOTER BODY AND FRONT-WHEEL DRIVE TYPE ELECTROMOTIVE SCOOTER

Abstract: A front-wheel drive type electromotive scooter comprising a body (10) with substantially horizontal foot step plates (103, 104) characterized in that said front wheel (1) is a direct drive type electromotive wheel in which a stator and an armature of a direct drive motor (2) as a traveling motive power source are directly provided between a shaft portion (8) and a disk portion of said front wheel (1), and a power battery (3) and a control device (4) are mounted in said body (10).

Classifications:

International (IPC 8-9): B60K7/00 B62K11/00 B62K11/12 B62M7/12 F02B61/02 (Advanced/Invention);

B60K7/00 B62K11/00 B62M7/00 F02B61/00 (Core/Invention)

International (IPC 1-7): B60K7/00 B62K11/00 B62K11/12 B62M7/12

CPC: B62K11/10 B62K2204/00 B62K2208/00 B60L15/20 B60L2200/12 B60L2220/44 B60L2240/421 B60K1/04 B60K7/0007 B60K2007/0038 B60K2007/0092 B60Y2200/12 B60Y2200/126 B62K11/00 B62K2202/00 B62M7/12 F02B61/02 Y02T10/7005 Y02T10/7061 Y02T10/7275 Y02T10/645 Y02T10/72 B60L50/52 B60L50/66 B60L58/21

European: B60K1/04 B60K7/00E B62K11/00 B62M7/12 F02B61/02 L60K7/00R L60K7/00W L60Y200/126 L62K202/00

US: 180/220 180/223 180/65.5 180/65.51 296/901

JP F-Term: 3D011 3D011/AF00 3D011/AF03 3D011/AF04 3D011/AG01 3D011/AH03 3D011/AJ01 3D011/AK01 3D011/AK11 3D011/AK31 3D011/AK41 3D011/AL00 3D011/AL39 3D011/AL41 3D035 3D035/AA01 3D035/AA06 3D235 3D235/AA23 3D235/BB17 3D235/BB18 3D235/BB19 3D235/BB24 3D235/BB26 3D235/BB27 3D235/BB32 3D235/BB33 3D235/CC13 3D235/CC15 3D235/CC42 3D235/DD16 3D235/DD21 3D235/EE63 3D235/FF43 3D235/GA03 3D235/GA13 3D235/GA59 3D235/HH02 3D235/HH44 3D235/HH61

JP F-Index: B60K7/00 B62K11/12

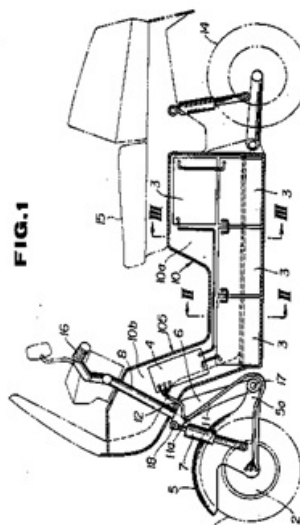
PatBase - US5207288_A

U.S. Patent

May 4, 1993

Sheet 1 of 4

5,207,288

**Family:**

Publication number	Publication date	Application number	Application date
DE69104868 D1	19941208	DE19916004868	19910124
DE69104868 T2	19950518	DE19916004868T	19910124
EP0444975 A1	19910904	EP19910400161	19910124
EP0444975 B1	19941102	EP19910400161	19910124
ES2066376 T3	19950301	ES19910400161T	19910124
JP3224887 A2	19911003	JP19900018717	19900129
US5207288 A	19930504	US19910645582	19910124

Priority:

JP19900018717 19900129

Probable Assignee: TOKYO R AND D CO

Assignee(s): (std): TOKYO R AND D CO LTD ; TOKYO R AND D KK

Assignee(s): TOKYO R AND D CO LTD TOKIO TOKYO JP ; TOKYO R AND D CO

Inventor(s): (std): ONO MASAO ; ONO MASAO C O YOKOHAMA LABORAT ; ONO MASARO

Inventor(s): ONO MASAO C O YOKOHAMA LABORATORY ; ONO MASAO C O YOKOHAMA LABORATORY YOKOHAMA SHI KAN ; ONO MASAO C O YOKOHAMA LABORATORY YOKOHAMA SHI KANAGAWA PREF 223 JP ; ONO MASAO C O YOKOHAMA LABORATORY YOKOHAMA SHI...

Designated states: DE ES FR GB IT NL

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE69104868 D1	19951130	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
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DE69104868 T2	20110124	PEXP		Calculated Patent Term Expiry	

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EP0444975 A1	19930519	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : TOKYO R&D CO., LTD.
EP0444975 A1	19930901	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 19930714
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EP0444975 B1	19990125	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 19990125
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EP0444975 B1	19991103	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 19991103
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EP0444975 B1	20010928	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20010928
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ES2066376 T3	20110124	PEXP		Calculated Patent Term Expiry	
JP3224887 A2	19911003	LSPB	+	published / reissued	
US5207288 A	19930504	LSGT	+	granted / extensions (spc, cpc, pte)	
US5207288 A	19910823	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : TOKYO R & D CO., LTD., JAPAN OLD PARTY : ASSIGNMENT OF ASSIGNOR'S INTEREST.; ASSIGNOR: ONO, MASAO; REEL/FRAME: 005814/0380 EFFECTIVE DATE : 19910205
US5207288 A	19930422	LSGT	PAT1	Patented Case	
US5207288 A	19961028	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US5207288 A	20010506	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US5207288 A	20010710	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20010504
US5207288 A	20180127	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US5207288 A	20180127	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US5207288 A	20110124	PEXP		Calculated Patent Term Expiry	

Title: SCOOTER

Abstract: The vehicle, e.g. a scooter, has a footboard 116 with side edge channels 130, each housing a rod or tube 112 forming illumination. The rods or tubes are connected to power means, comprising a battery or dynamo. Each rod or tube can comprise a transparent or translucent polymeric sheath for a series of LEDs. A switch provides on/off control and can provide different modes of illumination of the LEDs. The scooter can be a foldable micro-scooter.

Classifications:

International (IPC 8-9): A63C17/00 A63C17/26 B21C23/04 B62J23/00 B62J6/00 B62K3/00 B62K9/02 B62M1/00 F21L4/02 F21S4/00 F21S8/10 H05B39/00 (Advanced/Invention); B21C23/02 B62J23/00 B62J6/00 B62K3/00 B62K9/00 B62M1/00 F21L4/00 F21S4/00 F21S8/10 H05B39/00 (Core/Invention)

International (IPC 1-7): B60Q1/26 B62J6/00 B62K3/00 F21S8/10

CPC: A63C17/26 Y10S362/80 A63C2203/14 B62J6/00 B62K3/002

European: A63C17/26 B62J6/00 B62K3/00B K63C203/14

US: 280/11.203 280/639 280/639P 280/87.041 280/87.041P 315/313 315/313S 362/184 362/184S 362/192 362/192S 362/249.02 362/473 362/543 362/543S 362/545 362/545P 362/800 72/253.1 72/253.100S

PatBase - US2005248957_AA

Patent Application Publication Nov. 18, 2005 Sheet 1 of 6 US 2005/0248957 A1

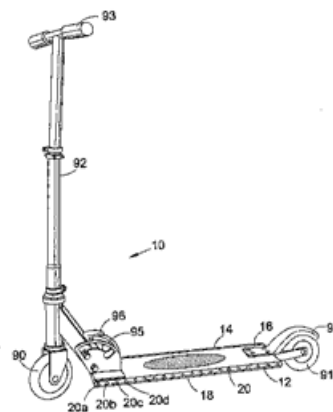


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
AT465076 E	20100515	AT20060250117T	20060111
CY1110224 T1	20150114	CY20101100673T	20100720
DE602005042099 D1	20140206	DE200560042099T	20050505
DE602005042169 D1	20140206	DE200560042169T	20050505
DE602006013725 D1	20100602	DE200660013725T	20060111
DK1593590 T3	20140317	DK20050252764T	20050505
DK1686052 T3	20100816	DK20060250117T	20060111
EP1593590 A1	20051109	EP20050252764	20050505
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EP2025587 B1	20131211	EP20080016756	20050505
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ES2451494 T3	20140327	ES20050252764T	20050505
GB200409974 A0	20040609	GB20040009974	20040505
GB200501600 A0	20050302	GB20050001600	20050126
GB200600356 A0	20060215	GB20060000356	20060110
GB2397808 A1	20040804	GB20040009974	20040505
GB2397808 B2	20051228	GB20040009974	20040505
GB2422583 A1	20060802	GB20060000356	20060110
GB2422583 B2	20090930	GB20060000356	20060110
US2005248957 AA	20051110	US20050122529	20050505
US2006175784 AA	20060810	US20060338901	20060125
US2010140894 AA	20100610	US20100703810	20100211
US2011204599 AA	20110825	US20110034960	20110225
US7712937 BB	20100511	US20050122529	20050505
US8562005 BB	20131022	US20110034960	20110225
US8662508 BB	20140304	US20060338901	20060125
US8740230 BB	20140603	US20100703810	20100211

Priority:

GB20040009974 20040505	GB20050001600 20050126	EP20050252764 20050505
US20050122529 20050505	EP20080016756 20050505	EP20060250117 20060111
US20060338901 20060125	US20100703810 20100211	US20110034960 20110225

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Inventor(s): (std): GROSSMAN MARTIN
Inventor(s): MARTIN GROSSMAN
Agent(s): MARKS AND CLERK LUXEMBOURG LLP; MORELAND DAVID; VALLEJO JUAN PEDRO; TAROLLI SUNDHEIM COVELL AND TUMMINO LLP; STEPTOE AND JOHNSON LLP
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 NL PL PT RO SE SI SK TR YU

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
AT465076 E	20100515	LSGT	+	granted / extensions (spc, cpc, pte)	
AT465076 E	20101015	LSLE	-RER	CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES	
AT465076 E	20260111	PEXP		Calculated Patent Term Expiry	
CY1110224 T1	20150114	LSGT	+	granted / extensions (spc, cpc, pte)	
DE602005042099 D1	20131212	LSAS	R081	CHANGE OF APPLICANT/PATENTEE	PARTYTYPE : OWNER OLDPARTY : H GROSSMAN LTD., RUTHERGLEN, GLASGOW, GB
DE602006013725 D1	20110512	LSGT	+8364	NO OPPOSITION DURING TERM OF OPPOSITION	
DK1593590 T3	20140317	LSGT	+	granted / extensions (spc, cpc, pte)	
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DK1686052 T3	20100816	LSGT	+	granted / extensions (spc, cpc, pte)	
DK1686052 T3	20260111	PEXP		Calculated Patent Term Expiry	
EP1593590 A1	20051109	LSPB	+	published / reissued	
EP1593590 A1	20060614	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20060503
EP1593590 A1	20060712	LSFE	+AKX	DESIGNATION FEES PAID	COUNTRY OF REF DOCUMENT : AT COUNTRY OF REF DOCUMENT : BE COUNTRY OF REF DOCUMENT : BG COUNTRY OF REF DOCUMENT : CH COUNTRY OF REF DOCUMENT : CY COUNTRY OF REF DOCUMENT : CZ COUNTRY OF REF DOCUMENT : DE COUNTRY OF REF DOCUMENT : DK COUNTRY OF REF DOCUMENT : EE COUNTRY OF REF DOCUMENT : ES COUNTRY OF REF DOCUMENT : FI COUNTRY OF REF DOCUMENT : FR COUNTRY OF REF DOCUMENT : GB COUNTRY OF REF DOCUMENT : GR COUNTRY OF REF DOCUMENT : HU COUNTRY OF REF DOCUMENT : IE COUNTRY OF REF DOCUMENT : IS COUNTRY OF REF DOCUMENT : IT COUNTRY OF REF DOCUMENT : LI COUNTRY OF REF DOCUMENT : LT COUNTRY OF REF DOCUMENT : LU COUNTRY OF REF DOCUMENT : MC COUNTRY OF REF DOCUMENT : NL COUNTRY OF REF DOCUMENT : PL COUNTRY OF REF DOCUMENT : PT COUNTRY OF REF DOCUMENT : RO COUNTRY OF REF DOCUMENT : SE COUNTRY OF REF DOCUMENT : SI COUNTRY OF REF DOCUMENT : SK COUNTRY OF REF DOCUMENT : TR

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EP1593590 A1	20110330	LSSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20110301
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EP1593590 B1	20140430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LT NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20131211
EP1593590 B1	20140430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION 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 : 20131211
EP1593590 B1	20140430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE

				NATIONAL OFFICE TO EPO]	WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20131211
EP1593590 B1	20140526	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D
EP1593590 B1	20140530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CY NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20131211
EP1593590 B1	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IS NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140411
EP1593590 B1	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20131211
EP1593590 B1	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : EE NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20131211
EP1593590 B1	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140411
EP1593590 B1	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CZ NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20131211
EP1593590 B1	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PL NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20131211
EP1593590 B1	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SK NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20131211
EP1593590 B1	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : RO NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20131211

EP1593590 B1	20140912	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602005042099 COUNTRY OF REF DOCUMENT : DE
EP1593590 B1	20141119	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20140912
EP1593590 B1	20141224	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602005042099 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20140912
EP1593590 B1	20141231	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140505
EP1593590 B1	20141231	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1593590 B1	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20131211
EP1593590 B1	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140531
EP1593590 B1	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140531
EP1593590 B1	20150225	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP1593590 B1	20150227	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SI NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20131211
EP1593590 B1	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140505
EP1593590 B1	20160531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BG NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20131211
EP1593590 B1	20160630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20131211

EP1593590 B1	20160630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140312
EP1593590 B1	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION 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 : 20050505
EP1593590 B1	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION 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 : 20131211
EP1593590 B1	20161128	LSFE	REG	REFERENCE TO A NATIONAL CODE	COUNTRY OF REF DOCUMENT : FR REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 12
EP1593590 B1	20170511	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 13
EP1593590 B1	20170731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 20170510 YEAR OF FEE PAYMENT : 13
EP1593590 B1	20170731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20170509 YEAR OF FEE PAYMENT : 13
EP1593590 B1	20170731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20170503 YEAR OF FEE PAYMENT : 13
EP1593590 B1	20170731	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20170511 YEAR OF FEE PAYMENT : 13
EP1593590 B1	20170831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT PAYMENT DATE : 20170509 YEAR OF FEE PAYMENT : 13
EP1593590 B1	20170831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20170615 YEAR OF FEE PAYMENT : 13
EP1593590 B1	20180928	LSFE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : PLFP YEAR OF FEE PAYMENT : 14
EP1593590 B1	20181031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20180925 YEAR OF FEE PAYMENT : 14
EP1593590 B1	20181031	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20180928 YEAR OF FEE PAYMENT : 14
EP1593590 B1	20181130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : DK

EP1593590 B1	20181130	LSFE	+PGFP	[ANNOUNCED FROM NATIONAL OFFICE TO EPO] ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	PAYMENT DATE : 20180925 YEAR OF FEE PAYMENT : 14 COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20180926 YEAR OF FEE PAYMENT : 14
EP1593590 B1	20181130	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT PAYMENT DATE : 20180925 YEAR OF FEE PAYMENT : 14
EP1593590 B1	20190228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20180928 YEAR OF FEE PAYMENT : 14
EP1593590 B1	20250505	PEXP		Calculated Patent Term Expiry	
EP1686052 A1	20060802	LSPB	+	published / reissued	
EP1686052 A1	20070321	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20070201
EP1686052 A1	20070411	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20070302
EP1686052 A1	20070411	LSFE	+AKX	DESIGNATION FEES PAID	COUNTRY OF REF DOCUMENT : AT COUNTRY OF REF DOCUMENT : BE COUNTRY OF REF DOCUMENT : BG COUNTRY OF REF DOCUMENT : CH COUNTRY OF REF DOCUMENT : CY COUNTRY OF REF DOCUMENT : CZ COUNTRY OF REF DOCUMENT : DE COUNTRY OF REF DOCUMENT : DK COUNTRY OF REF DOCUMENT : EE COUNTRY OF REF DOCUMENT : ES COUNTRY OF REF DOCUMENT : FI COUNTRY OF REF DOCUMENT : FR COUNTRY OF REF DOCUMENT : GB COUNTRY OF REF DOCUMENT : GR COUNTRY OF REF DOCUMENT : HU COUNTRY OF REF DOCUMENT : IE COUNTRY OF REF DOCUMENT : IS COUNTRY OF REF DOCUMENT : IT COUNTRY OF REF DOCUMENT : LI COUNTRY OF REF DOCUMENT : LT COUNTRY OF REF DOCUMENT : LU COUNTRY OF REF DOCUMENT : LV COUNTRY OF REF DOCUMENT : MC COUNTRY OF REF DOCUMENT : NL COUNTRY OF REF DOCUMENT : PL COUNTRY OF REF DOCUMENT : PT COUNTRY OF REF DOCUMENT : RO COUNTRY OF REF DOCUMENT : SE COUNTRY OF REF DOCUMENT : SI COUNTRY OF REF DOCUMENT : SK COUNTRY OF REF DOCUMENT : TR
EP1686052 A1	20160229	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20151214 YEAR OF FEE PAYMENT : 11
EP1686052 B1	20100421	LSGT	+	granted / extensions (spc, cpc, pte)	
EP1686052 B1	20100421	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP1686052 B1	20100430	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP1686052 B1	20100526	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP1686052 B1	20100804	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : T3

EP1686052 B1	20100909	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GR REF LEGAL EVENT CODE : EP REF DOCUMENT NUMBER : 20100401722 COUNTRY OF REF DOCUMENT : GR
EP1686052 B1	20100909	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : ES REF LEGAL EVENT CODE : FG2A REF DOCUMENT NUMBER : 2344918 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : T3 DESIGNATED STATE(S) :
EP1686052 B1	20100927	LSRV	-LTIE	LT: INVALIDATION OF EUROPEAN PATENT OR PATENT EXTENSION	REF COUNTRY CODE : EP EFFECTIVE DATE : 20100421
EP1686052 B1	20101029	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LT NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100421
EP1686052 B1	20101029	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100421
EP1686052 B1	20101130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : AT NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100421
EP1686052 B1	20101130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IS NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100821
EP1686052 B1	20101130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LV NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100421
EP1686052 B1	20101130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SI NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100421
EP1686052 B1	20101130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100421
EP1686052 B1	20110131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PT NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100823

EP1686052 B1	20110131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : EE NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20100421
EP1686052 B1	20110228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : RO NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20100421
EP1686052 B1	20110228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SK NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20100421
EP1686052 B1	20110228	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20100421
EP1686052 B1	20110330	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20110124
EP1686052 B1	20110331	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GR PAYMENT DATE : 20101222 YEAR OF FEE PAYMENT : 6
EP1686052 B1	20110429	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IE PAYMENT DATE : 20110112 YEAR OF FEE PAYMENT : 6
EP1686052 B1	20110429	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DK PAYMENT DATE : 20110111 YEAR OF FEE PAYMENT : 6
EP1686052 B1	20110531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CZ PAYMENT DATE : 20101231 YEAR OF FEE PAYMENT : 6
EP1686052 B1	20110531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT PAYMENT DATE : 20110114 YEAR OF FEE PAYMENT : 6
EP1686052 B1	20110531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE PAYMENT DATE : 20110105 YEAR OF FEE PAYMENT : 6
EP1686052 B1	20110531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR PAYMENT DATE : 20110128 YEAR OF FEE PAYMENT : 6
EP1686052 B1	20110531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PL PAYMENT DATE : 20101227 YEAR OF FEE PAYMENT : 6
EP1686052 B1	20110831	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : MC NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20110131

EP1686052 B1	20110831	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CY PAYMENT DATE : 20101229 YEAR OF FEE PAYMENT : 6
EP1686052 B1	20110831	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP1686052 B1	20111031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20110131
EP1686052 B1	20111031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20110131
EP1686052 B1	20120910	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DK REF LEGAL EVENT CODE : EBP
EP1686052 B1	20120924	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GR REF LEGAL EVENT CODE : ML REF DOCUMENT NUMBER : 20100401722 COUNTRY OF REF DOCUMENT : GR EFFECTIVE DATE : 20120802
EP1686052 B1	20121019	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20120928
EP1686052 B1	20121024	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP1686052 B1	20121031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CY NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120111
EP1686052 B1	20121031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120801
EP1686052 B1	20121031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CZ NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120111
EP1686052 B1	20121115	LSDW	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R119 REF DOCUMENT NUMBER : 602006013725 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20120801
EP1686052 B1	20121130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IT NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120111
EP1686052 B1	20121130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120802
EP1686052 B1	20121231	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120131

EP1686052 B1	20130131	LSLE	-PG25	EPO] LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120131
EP1686052 B1	20130131	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120111
EP1686052 B1	20130131	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL PAYMENT DATE : 20120731 YEAR OF FEE PAYMENT : 7
EP1686052 B1	20130430	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : PL REF LEGAL EVENT CODE : LAPE
EP1686052 B1	20130531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120111
EP1686052 B1	20130531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20110111
EP1686052 B1	20130814	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : V1 EFFECTIVE DATE : 20130801
EP1686052 B1	20130930	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BG NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20100721
EP1686052 B1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION 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 LAPSED DATE : 20100421
EP1686052 B1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : NL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20130801
EP1686052 B1	20131031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : TR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20120111
EP1686052 B1	20140924	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20140111
EP1686052 B1	20141128	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140111
EP1686052 B1	20150408	LSRE	REG	REFERENCE TO A	REF COUNTRY CODE : GB

EP1686052 B1	20150520	LSRE	REG	NATIONAL CODE	REF LEGAL EVENT CODE : S28 TEXT : APPLICATION FILED
				REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : S28 TEXT : RESTORATION ALLOWED EFFECTIVE DATE : 20150429
EP1686052 B1	20170531	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB PAYMENT DATE : 20170208 YEAR OF FEE PAYMENT : 12
EP1686052 B1	20170630	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20170214 YEAR OF FEE PAYMENT : 12
EP1686052 B1	20180926	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON- PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20180111
EP1686052 B1	20181130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB NOTIFICATION OF LAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20180111
EP1686052 B1	20190228	LSFE	+PGFP	ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : ES PAYMENT DATE : 20180928 YEAR OF FEE PAYMENT : 13
EP1686052 B1	20260111	PEXP		Calculated Patent Term Expiry	
EP2025587 A2	20090218	LSPB	+	published / reissued	
EP2025587 A2	20090218	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20081002
EP2025587 A2	20091104	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATION SCHEME : IPC CLASSIFICATION SYMBOL : B62K 3/00 20060101AFI20090108BHEP
EP2025587 A2	20091104	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATION SCHEME : IPC CLASSIFICATION SYMBOL : B62J 23/00 20060101ALI20090930BHEP
EP2025587 A2	20091104	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATION SCHEME : IPC CLASSIFICATION SYMBOL : B62J 6/00 20060101ALI20090930BHEP
EP2025587 A2	20100707	LSFE	+AKX	DESIGNATION FEES PAID	COUNTRY OF REF DOCUMENT : AT COUNTRY OF REF DOCUMENT : BE COUNTRY OF REF DOCUMENT : BG COUNTRY OF REF DOCUMENT : CH COUNTRY OF REF DOCUMENT : CY COUNTRY OF REF DOCUMENT : CZ COUNTRY OF REF DOCUMENT : DE COUNTRY OF REF DOCUMENT : DK COUNTRY OF REF DOCUMENT : EE COUNTRY OF REF DOCUMENT : ES COUNTRY OF REF DOCUMENT : FI COUNTRY OF REF DOCUMENT : FR COUNTRY OF REF DOCUMENT : GB COUNTRY OF REF DOCUMENT : GR COUNTRY OF REF DOCUMENT : HU COUNTRY OF REF DOCUMENT : IE COUNTRY OF REF DOCUMENT : IS COUNTRY OF REF DOCUMENT : IT COUNTRY OF REF DOCUMENT : LI COUNTRY OF REF DOCUMENT : LT COUNTRY OF REF DOCUMENT : LU COUNTRY OF REF DOCUMENT : MC COUNTRY OF REF DOCUMENT : NL COUNTRY OF REF DOCUMENT : PL COUNTRY OF REF DOCUMENT : PT COUNTRY OF REF DOCUMENT : RO

					COUNTRY OF REF DOCUMENT : SE COUNTRY OF REF DOCUMENT : SI COUNTRY OF REF DOCUMENT : SK COUNTRY OF REF DOCUMENT : TR
EP2025587 A2	20100721	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20100616
EP2025587 A2	20101117	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20101019
EP2025587 A2	20110420	LSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20110318
EP2025587 A2	20130424	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	EFFECTIVE DATE : 20130326
EP2025587 A2	20131211	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : GB REF LEGAL EVENT CODE : FG4D
EP2025587 A2	20131213	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : EP
EP2025587 A2	20140115	LSNP	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : REF REF DOCUMENT NUMBER : 644390 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20140115
EP2025587 A2	20140129	LSGT	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : FG4D
EP2025587 A2	20140206	LSPB	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R096 REF DOCUMENT NUMBER : 602005042169 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20140206
EP2025587 A2	20140402	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : NL REF LEGAL EVENT CODE : VDEP EFFECTIVE DATE : 20131211
EP2025587 A2	20140415	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : AT REF LEGAL EVENT CODE : MK05 REF DOCUMENT NUMBER : 644390 COUNTRY OF REF DOCUMENT : AT KIND CODE OF REF DOCUMENT : T DESIGNATED STATE(S) : EFFECTIVE DATE : 20131211
EP2025587 A2	20140430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SE NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20131211
EP2025587 A2	20140430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LT NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20131211
EP2025587 A2	20140430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FI NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20131211
EP2025587 A2	20140430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT	COUNTRY OF REF DOCUMENT : NL NOTIFICATIONNOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE

				INFORMATION FROM NATIONAL OFFICE TO EPO]	DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20131211
EP2025587 A2	20140526	LSRV	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : LT REF LEGAL EVENT CODE : MG4D
EP2025587 A2	20140530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CY NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20131211
EP2025587 A2	20140530	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION 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 : 20131211
EP2025587 A2	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : EE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20131211
EP2025587 A2	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IS NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140411
EP2025587 A2	20140731	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20131211
EP2025587 A2	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : SK NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20131211
EP2025587 A2	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : PL NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20131211
EP2025587 A2	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CZ NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20131211
EP2025587 A2	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : RO NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20131211

EP2025587 A2	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION 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 : 20131211
EP2025587 A2	20140829	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION 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 : 20140411
EP2025587 A2	20140912	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602005042169 COUNTRY OF REF DOCUMENT : DE
EP2025587 A2	20141031	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	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 : 20131211
EP2025587 A2	20141119	LSGT	+26N	NO OPPOSITION FILED	EFFECTIVE DATE : 20140912
EP2025587 A2	20141202	LSDW	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R119 REF DOCUMENT NUMBER : 602005042169 COUNTRY OF REF DOCUMENT : DE
EP2025587 A2	20141224	LSRE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R097 REF DOCUMENT NUMBER : 602005042169 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20140912
EP2025587 A2	20141231	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LU NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME- LIMIT LAPSED DATE : 20140505
EP2025587 A2	20141231	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : CH REF LEGAL EVENT CODE : PL
EP2025587 A2	20150128	LSLE	-GBPC	GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	REF COUNTRY CODE : EP EFFECTIVE DATE : 20140505
EP2025587 A2	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : LI NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140531
EP2025587 A2	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION 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 : 20131211
EP2025587 A2	20150130	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : CH NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140531

EPO]					
EP2025587 A2	20150225	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : IE REF LEGAL EVENT CODE : MM4A
EP2025587 A2	20150227	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION 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 : 20131211
EP2025587 A2	20150227	LSLE	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : FR REF LEGAL EVENT CODE : ST EFFECTIVE DATE : 20150130
EP2025587 A2	20150319	LSDW	REG	REFERENCE TO A NATIONAL CODE	REF COUNTRY CODE : DE REF LEGAL EVENT CODE : R119 REF DOCUMENT NUMBER : 602005042169 COUNTRY OF REF DOCUMENT : DE EFFECTIVE DATE : 20141202
EP2025587 A2	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : IE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140505
EP2025587 A2	20150430	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : DE NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20141202
EP2025587 A2	20150529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : FR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140602
EP2025587 A2	20150529	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GB NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES LAPSED DATE : 20140505
EP2025587 A2	20160531	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : BG NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20131211
EP2025587 A2	20160630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION 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 : 20131211
EP2025587 A2	20160630	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : GR NOTIFICATIONOFLAPSE : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT LAPSED DATE : 20140312
EP2025587 A2	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION 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 : 20050505

EP2025587 A2	20160729	LSLE	-PG25	LAPSED IN A CONTRACTING STATE [ANNOUNCED VIA POSTGRANT INFORMATION FROM NATIONAL OFFICE TO EPO]	COUNTRY OF REF DOCUMENT : TR 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 : 20131211
EP2025587 B1	20131211	LSGT	+	granted / extensions (spc, cpc, pte)	
EP2025587 B1	20250505	PEXP		Calculated Patent Term Expiry	
ES2344918 T3	20100909	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2344918 T3	20260111	PEXP		Calculated Patent Term Expiry	
ES2451494 T3	20140327	LSGT	+	granted / extensions (spc, cpc, pte)	
ES2451494 T3	20250505	PEXP		Calculated Patent Term Expiry	
GB200501600 A0	20060607	LSWD	-AT	APPLICATIONS TERMINATED BEFORE PUBLICATION UNDER SECTION 16(1)	
GB2397808 A1	20040804	LSPB	+	published / reissued	
GB2397808 B2	20051228	LSGT	+	granted / extensions (spc, cpc, pte)	
GB2397808 B2	20150128	LSLE	-PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	EFFECTIVE DATE : 20140505
GB2397808 B2	20240505	PEXP		Calculated Patent Term Expiry	
GB2422583 A1	20060802	LSPB	+	published / reissued	
GB2422583 B2	20090930	LSGT	+	granted / extensions (spc, cpc, pte)	
GB2422583 B2	20120926	LSLE	-PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	EFFECTIVE DATE : 20120110
GB2422583 B2	20260110	PEXP		Calculated Patent Term Expiry	
US2005248957 AA	20051110	LSPB	+	published / reissued	
US2006175784 AA	20060810	LSPB	+	published / reissued	
US2006175784 AA	20140212	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2010140894 AA	20100610	LSPB	+	published / reissued	
US2010140894 AA	20140514	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2011204599 AA	20110825	LSPB	+	published / reissued	
US2011204599 AA	20131002	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US7712937 BB	20100511	LSGT	+	granted / extensions (spc, cpc, pte)	
US7712937 BB	20050718	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : H. GROSSMAN LIMITED, UNITED KINGDOM OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:GROSSMAN, MARTIN; REEL/FRAME:016781/0991 EFFECTIVE DATE : 20050616
US7712937 BB	20050718	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : H. GROSSMAN LIMITED, UNITED KINGDOM OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:GROSSMAN, MARTIN;

US7712937 BB	20140511	LSLE	-LAPS	LAPSE FOR FAILURE TO PAY MAINTENANCE FEES	
US7712937 BB	20140609	LSLE	-PEX1	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362	
US7712937 BB	20140609	LSLE	-STCH	INFORMATION ON STATUS: PATENT DISCONTINUATION	TEXT : PATENT EXPIRED DUE TO NONPAYMENT OF MAINTENANCE FEES UNDER 37 CFR 1.362
US7712937 BB	20140701	LSLE	-FP	EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE	EFFECTIVE DATE : 20140511
US7712937 BB	20250505	PEXP		Calculated Patent Term Expiry	
US8562005 BB	20131022	LSGT	+	granted / extensions (spc, cpc, pte)	
US8562005 BB	20131002	LSGT	PAT1	Patented Case	
US8562005 BB	20171005	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : SURCHARGE FOR LATE PAYMENT, LARGE ENTITY (ORIGINAL EVENT CODE: M1554)
US8562005 BB	20171005	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8562005 BB	20310225	PEXP		Calculated Patent Term Expiry	
US8662508 BB	20140304	LSGT	+	granted / extensions (spc, cpc, pte)	
US8662508 BB	20060413	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : H GROSSMAN LIMITED, UNITED KINGDOM OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:GROSSMAN, MARTIN; REEL/FRAME:017467/0950 EFFECTIVE DATE : 20060329
US8662508 BB	20140212	LSGT	PAT1	Patented Case	
US8662508 BB	20170921	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : SURCHARGE FOR LATE PAYMENT, LARGE ENTITY (ORIGINAL EVENT CODE: M1554)
US8662508 BB	20170921	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8662508 BB	20270723	PEXP		Calculated Patent Term Expiry (PTA 544 days)	
US8740230 BB	20140603	LSGT	+	granted / extensions (spc, cpc, pte)	
US8740230 BB	20140514	LSGT	PAT1	Patented Case	
US8740230 BB	20171116	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US8740230 BB	20300721	PEXP		Calculated Patent Term Expiry (PTA 160 days and a terminal disclaimer has been filed)	

Title: USER-PROPELLED WHEELED VEHICLES

Abstract: A vehicle (100) is propelled by using the handlebar column (90) as a lever that can be pivoted to-and-fro and that also has a drive end or crank (50) which directly engages with the front wheel (101), whereby the front wheel is moved forwards in the rearward stroke. With a minimum of driving parts, the vehicle is reliable and durable. In addition vehicles according to this invention are stainable because they use no fuel. The drive lever (90) may be moved by hand or arm. Such vehicles may be two- or **three-wheeled scooters** for on-road or off-road use. The vehicle has a one-direction gear (55) to operate to allow angular driven movement of the driven wheel only during rearward movement of the lever, so that during forward movement of the lever the front wheel (101) can turn forwards freely.

Classifications:

International (IPC 8-9): A61G5/02 B62K3/00 B62M1/00 B62M1/04 B62M1/06 B62M1/14 B62M1/16 B62M1/32 (Advanced/Invention); B62K3/00 B62M1/00 (Core/Invention)

International (IPC 1-7): B62K3/00 B62M1/06 B62M1/14 B62M1/16

CPC: B62K3/002 B62K3/005 B62M1/14 B62M1/16 B62M1/32

European: B62K3/00B B62K3/00C B62M1/06 B62M1/14 B62M1/16 B62M1/32

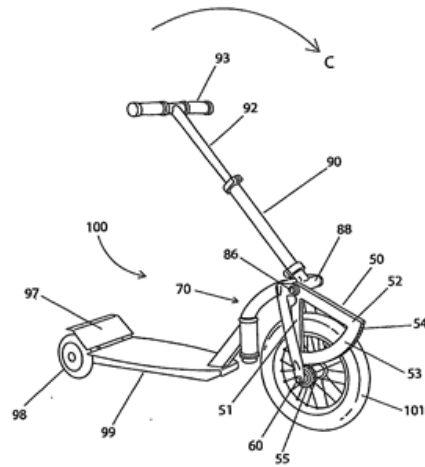
US: 280/240 280/240P D21/423

JP F-Term: 3D011 3D126 4C039

JP F-Index: A61G5/02/512 B62K3/00 B62M1/04/B B62M1/04/E B62M1/16 B62M1/30

Locarno class: 21/01

PatBase - US2008036169_AA

**Family:**

Publication number	Publication date	Application number	Application date
AU2005261530 AA	20060119	AU20050261530	20050114
CN201132582 Y	20081015	CN200590000067U	20050114
DE212005000038 U1	20070405	DE200521000038U	20050114
EP1781531 A1	20070509	EP20050701879	20050114
GB200424503 A0	20041208	GB20040024503	20041105
GB200424504 A0	20041208	GB20040024504	20041105
JP3143736 U	20080807	JP20070600026U	20050114
US2008036169 AA	20080214	US20050632274	20050114
USD547388 S1	20070724	US20050221237F	20050114
WO6005893 A1	20060119	WO2005GB00111	20050114

Priority:

GB19300018084	20040714	GB19300018085	20040714	GB19300018086	20040714
GB20043018084	20040714	GB20043018085	20040714	GB20043018086	20040714
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GB20043018170	20040721	GB20043018169F	20040721	GB20043018170F	20040721
GB19300018189	20040722	GB19300018190	20040722	GB20043018189	20040722
GB20043018190	20040722	GB20043018189F	20040722	GB20043018190F	20040722
GB19300017338	20040903	GB20043017338	20040903	GB20043017338F	20040903
GB19300018663	20040907	GB20043018663	20040907	GB20043018663F	20040907
GB20040424503F	20041105	GB20040024503	20041105	GB20040024504	20041105
US20050221237D	20050114	WO2005GB00111	20050114		

Probable Assignee: THOMAS ENDA AND FIRST MAN STANDING

Assignee(s): (std): FARRIN BEN ; INDUS THOMAS ; THOMAS ENDA ; MARTIN MAURICE

Assignee(s): MAURICE MARTIN ; THOMAS ENDA AND FIRST MAN STANDING ; FIRST MAN STANDING ; FIRST MAN STANDING 50 PERCENT ; FIRST MAN STANDING LTD ; ENDA THOMAS

Inventor(s): (std): ENDA THOMAS ; FARRIN BEN ; MARTIN MAURICE ; BEN FARRIN ; MAURICE MARTIN ; THOMAS ENDA

Agent(s): SPRUSON AND FERGUSON; YOUNG AND THOMPSON

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

Legal status (INPADOC)

View legal status timeline

Patent	Date recorded	Event group	Code	Event	Details
AU2005261530 AA	20060119	LSPB	+	published / reissued	
AU2005261530 AA	20070524	LSAS	PC1	ASSIGNMENT BEFORE GRANT (SECT. 113)	PARTYTYPE : OWNER OWNER : THOMAS, ENDA; FIRST MAN STANDING LTD. OLDPARTY : FORMER APPLICANT(S): THOMAS, ENDA; MARTIN, MAURICE; FARRIN, BEN
AU2005261530 AA	20110811	LSLE	-MK4	APPLICATION LAPSED SECTION 142(2)(D) - NO CONTINUATION FEE PAID FOR THE APPLICATION	
CN201132582 Y	20081015	LSGT	+	granted / extensions (spc, cpc, pte)	
CN201132582 Y	20081015	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN201132582 Y	20100804	LSLE	-C17	CESSATION OF PATENT RIGHT	
CN201132582 Y	20150114	PEXP		Calculated Patent Term Expiry	
DE212005000038 U1	20070405	LSGT	+	granted / extensions (spc, cpc, pte)	
DE212005000038 U1	20070510	LSGT	R207	UTILITY MODEL SPECIFICATION	EFFECTIVE DATE : 20070510
DE212005000038 U1	20070628	LSAS	R081	CHANGE OF APPLICANT/PATENTEE	PARTYTYPE : OWNER OWNER : FIRST MAN STANDING LTD., GB OLDPARTY : FORMER OWNER: ENDA THOMAS,BEN FARRIN,MAURICE MARTIN, , GB EFFECTIVE DATE : 20070423
DE212005000038 U1	20070628	LSAS	R081	CHANGE OF APPLICANT/PATENTEE	PARTYTYPE : OWNER OWNER : THOMAS, ENDA, GB OLDPARTY : FORMER OWNER: ENDA THOMAS,BEN FARRIN,MAURICE MARTIN, , GB EFFECTIVE DATE : 20070423
DE212005000038 U1	20080424	LSGT	+R150	TERM OF PROTECTION EXTENDED TO 6 YEARS	EFFECTIVE DATE : 20080219
DE212005000038 U1	20111215	LSLE	-R157	LAPSE OF IP RIGHT AFTER 6 YEARS	EFFECTIVE DATE : 20110802
DE212005000038 U1	20150114	PEXP		Calculated Patent Term Expiry	
EP1781531 A1	20070509	LSPB	+	published / reissued	
EP1781531 A1	20070509	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20070212
EP1781531 A1	20070606	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : FIRST MAN STANDING LTD
EP1781531 A1	20070606	LSAS	RAP1	RIGHTS OF AN APPLICATION TRANSFERRED	PARTYTYPE : OWNER OWNER : THOMAS, ENDA
EP1781531 A1	20120125	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20110802
GB200424503 A0	20060308	LSWD	-AT	APPLICATIONS TERMINATED BEFORE PUBLICATION UNDER SECTION 16(1)	
GB200424504 A0	20070425	LSWD	-AT	APPLICATIONS TERMINATED BEFORE PUBLICATION UNDER SECTION 16(1)	
JP3143736 U	20080807	LSGT	+	granted / extensions (spc, cpc, pte)	
JP3143736 U	20080716	LSGT	+R150	CERTIFICATE OF PATENT OR REGISTRATION OF UTILITY MODEL	TEXT : JAPANESE INTERMEDIATE CODE: R150
JP3143736 U	20080717	LSFE	+FPAY	RENEWAL FEE PAYMENT (EVENT DATE IS RENEWAL DATE OF	YEAR OF FEE PAYMENT : 3

DATABASE)					
JP3143736 U	20150114	PEXP		Calculated Patent Term Expiry	
US2008036169 AA	20080214	LSPB	+	published / reissued	
US2008036169 AA	20070515	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : THOMAS, ENDA AND FIRST MAN STANDING, GREAT BRITAIN OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS:FARRIN, BEN; MARTIN, MAURICE; REEL/FRAME:019300/0091 EFFECTIVE DATE : 20070413
US2008036169 AA	20070515	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : FIRST MAN STANDING 50%, UNITED KINGDOM OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:THOMAS, ENDA; REEL/FRAME:019301/0628 EFFECTIVE DATE : 20070227
US2008036169 AA	20090720	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2008036169 AA	20090720	LSWD	-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	TEXT : ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION
USD547388 S1	20070724	LSGT	+	granted / extensions (spc, cpc, pte)	
USD547388 S1	20210724	PEXP		Calculated Patent Term Expiry	
WO06005893 A1	20060119	LSPB	+	published / reissued	
WO06005893 A1	20070112	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2007600026 COUNTRY OF REF DOCUMENT : JP
WO06005893 A1	20070115	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 200590000067.X COUNTRY OF REF DOCUMENT : CN
WO06005893 A1	20070116	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO06005893 A1	20070116	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	TEXT : DE
WO06005893 A1	20070118	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2120050000387 COUNTRY OF REF DOCUMENT : DE
WO06005893 A1	20070212	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2005701879 COUNTRY OF REF DOCUMENT : EP
WO06005893 A1	20070212	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2005261530 COUNTRY OF REF DOCUMENT : AU
WO06005893 A1	20070308	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2005261530 COUNTRY OF REF DOCUMENT : AU DATE OF REF DOCUMENT : 20050114 KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO06005893 A1	20070308	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 2005261530 COUNTRY OF REF DOCUMENT : AU
WO06005893 A1	20070509	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN	REF DOCUMENT NUMBER : 2005701879

				NATIONAL OFFICE	COUNTRY OF REF DOCUMENT : EP
WO06005893 A1	20070515	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 11632274 COUNTRY OF REF DOCUMENT : US
WO06005893 A1	20080214	LSPB	+WWP	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE	REF DOCUMENT NUMBER : 11632274 COUNTRY OF REF DOCUMENT : US

Title: FOLDABLE **THREE-WHEELED SCOOTER**

Abstract: The present application discloses a foldable **three-wheeled scooter**, including a front fork and a frame. A handle bar is provided at the upper end of the front fork, a front wheel is connected to lower end of the front fork by front wheel bracket, and a saddle is provided on the frame. A vertical first groove is provided at the front end of the frame, a horizontal second groove is provided at two sides of the frame, the front fork is embedded into the first groove and is movably connected to the frame by first pin shaft. The front fork is embedded into a first groove and is movably connected to the frame by a first pin shaft. A first folding mechanism is provided in the middle of the front fork.

Classifications:

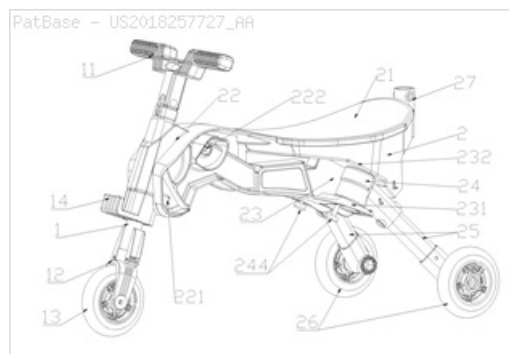
International (IPC 8-9): B62B7/06 B62K15/00

B62K3/00 (Advanced/Invention)

CPC: B62K3/002 A63C17/011 B62K15/006 A63C2203/10 B62K9/02

B62K15/008

US: 280/87.05



Family:

Publication number	Publication date	Application number	Application date
CN206634135 U	20171114	CN201720237117U	20170313
CN207060281 U	20180302	CN201720856164U	20170714
US2018257727 AA	20180913	US20170684950	20170824

Priority:

CN201720237117U 20170313 CN201720856164U 20170714

Probable Assignee:

YE JIN

Assignee(s): (std):

YE JIN

Inventor(s): (std):

YE JIN

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN206634135 U	20171114	LSGT	+	granted / extensions (spc, cpc, pte)	
CN206634135 U	20171114	LSGT	+GR01	PATENT GRANT	
CN206634135 U	20270313	PEXP		Calculated Patent Term Expiry	
CN207060281 U	20180302	LSGT	+	granted / extensions (spc, cpc, pte)	
CN207060281 U	20180302	LSGT	+GR01	PATENT GRANT	
CN207060281 U	20270714	PEXP		Calculated Patent Term Expiry	
US2018257727 AA	20180913	LSPB	+	published / reissued	
US2018257727 AA	20181218	LSSES	NFA1	Non Final Action Mailed	

Title: FOLDABLE KICK BOARD

Abstract: The present invention relates to a foldable kick board in which a footboard can be folded in two stages and the length of a handle shaft can be freely adjusted such that the size of the full-folded kick board can be reduced to be same as the length of the footboard.

Classifications:

International (IPC 8-9): A63C17/00 A63C17/01 B62K15/00 B62K17/00

B62K21/00 B62K21/16 B62K21/22 B62K3/00 (Advanced/Invention)

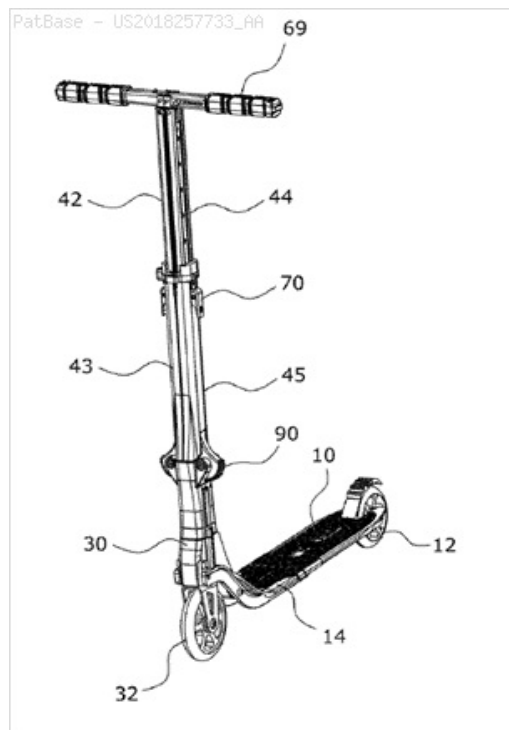
CPC: B62K3/002 A63C17/011 B62K15/006 B62K15/00 B62K17/00

B62K21/16 B62K21/22 B62K21/00

US: 280/287

JP F-Term: 2C080 3D212 3D212/BB13

JP F-Index: A63C17/01 B62K15/00 B62K17/00



Family:

Publication number	Publication date	Application number	Application date
CN108025787 A	20180511	CN201680054315	20160802
EP3351469 A1	20180725	EP20160846748	20160802
EP3351469 A4	20190327	EP20160846748	20160802
JP2018534091 T2	20181122	JP20180534448T	20160802
KR101789811 B1	20171025	KR20160053583	20160429
KR20160033582 A	20160328	KR20150063507	20150506
KR20160033634 A	20160328	KR20150131937	20150917
KR20160131908 A	20161116	KR20160053583	20160429
KR20170012175 A	20170202	KR20160173081	20161217
KR20170081582 A	20170712	KR20170063200	20170522
KR20170081583 A	20170712	KR20170063201	20170522
TW201711895 A	20170401	TW20160128783	20160906
US2018257733 AA	20180913	US20160760632	20160802
WO16043556 A1	20160324	WO2015KR09835	20150918
WO17047927 A1	20170323	WO2016KR08530	20160802

Priority:

KR20140124665 20140918	KR20150063507 20150506	KR20050131937 20150917
KR20150131937 20150917	KR20160053583 20160429	WO2016KR08530 20160802
KR20160173081 20161217	KR20170063200 20170522	KR20170063201 20170522

Probable Assignee: KO YOUNG SEONG

Assignee(s): (std): KO YOUNG SEONG ; KO YOUNG SEUNG

Inventor(s): (std): KO YOUNG SEUNG ; KO YOUNG SEONG

Agent(s): TER MEER STEINMEISTER AND PARTNER; ITOH TADASHIGE; ITOH TADAHIKO; OHNUKI SHINSUKE; LEE SUN WOO

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 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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CN108025787 A	20180511	LSPB	+	published / reissued	
CN108025787 A	20180511	LSPB	PB01	PUBLICATION	
EP3351469 A1	20180725	LSPB	+	published / reissued	
EP3351469 A1	20180725	LSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20180322
EP3351469 A4	20190327	LSES	+A4	SUPPLEMENTARY SEARCH REPORT DRAWN UP AND DESPATCHED	EFFECTIVE DATE : 20190226
EP3351469 A4	20190327	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : B62K 21/22 20060101ALI20190220BHEP
EP3351469 A4	20190327	LSRE	RIC1	INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT	CLASSIFICATIONSCHEME : IPC CLASSIFICATIONSYMBOL : B62K 15/00 20060101ALI20190220BHEP
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JP2018534091 T2	20181122	LSPB	+	published / reissued	
JP2018534091 T2	20181204	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20181204
KR101789811 B1	20171025	LSGT	+	granted / extensions (spc, cpc, pte)	
KR101789811 B1	20360429	PEXP		Calculated Patent Term Expiry	
KR20160033582 A	20160328	LSPB	+	published / reissued	
KR20160033582 A	20150506	LSES	A201	REQUEST FOR EXAMINATION	
KR20160033634 A	20160328	LSPB	+	published / reissued	
KR20160033634 A	20150917	LSES	A201	REQUEST FOR EXAMINATION	
KR20160131908 A	20161116	LSPB	+	published / reissued	
KR20160131908 A	20170508	LSES	-E902	NOTIFICATION OF REASON FOR REFUSAL	
KR20160131908 A	20170725	LSRV	-E90F	NOTIFICATION OF REASON FOR FINAL REFUSAL	
KR20160131908 A	20171012	LSGT	+E701	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
KR20160131908 A	20171018	LSGT	+GRNT	WRITTEN DECISION TO GRANT	
KR20170012175 A	20170202	LSPB	+	published / reissued	
KR20170081582 A	20170712	LSPB	+	published / reissued	
KR20170081583 A	20170712	LSPB	+	published / reissued	
TW201711895 A	20170401	LSPB	+	published / reissued	

US2018257733 AA	20180913	LSPB	+	published / reissued	
WO16043556 A1	20160324	LSPB	+	published / reissued	
WO16043556 A1	20170320	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO16043556 A1	20171011	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 15842233 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :
WO17047927 A1	20170323	LSPB	+	published / reissued	
WO17047927 A1	20180316	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2018534448 COUNTRY OF REF DOCUMENT : JP KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO17047927 A1	20180316	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 15760632 COUNTRY OF REF DOCUMENT : US
WO17047927 A1	20180320	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO17047927 A1	20180417	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 2016846748 COUNTRY OF REF DOCUMENT : EP

Title: CAMBERING VEHICLE WITH IMPROVED HANDLEBAR, FOOTBOARD ERGONOMICS, HEEL SUPPORT, AND CAMBERING JOINT

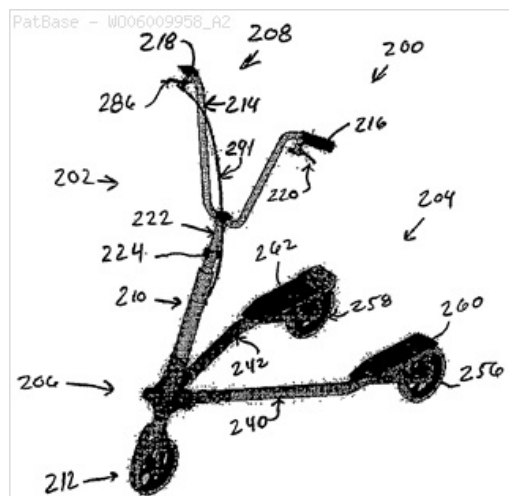
Abstract: A cambering vehicle (10) including a forward column (14), a pair of trailing arms (16, 18) and a cambering joint (206) connecting the forward column (14) and the trailing arms (16, 18). The cambering vehicle (10) includes handlebars (64) configured to flex during use. Additionally, the cambering joint (206) includes a cover (290). Footboards (80, 82) supported by the trailing arms (16, 18) are angled to provide for comfort. Optionally, footboard assemblies (80, 82) supported by the trailing arms (16, 18) can include raised rear portions.

Classifications:

International (IPC 8-9): B62M1/00 (Advanced/Invention);
B62M1/00 (Core/Invention)

CPC: B62K3/002 B62K5/02 B62K15/00

European: B62K3/00B



Family:

Publication number	Publication date	Application number	Application date
WO06009958 A2	20060126	WO2005US21675	20050620
WO06009958 A3	20070510	WO2005US21675	20050620

Priority:

US20040581026P 20040618

Probable Assignee: TRIKKE TECH INC

Assignee(s): (std): BELESKI J GILDO ; TRIKKE TECH INC

Assignee(s): BELESKI J

Inventor(s): (std): BELESKI J GILDO

Inventor(s): BELESKI J

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
WO06009958 A2	20060126	LSPB	+	published / reissued	
WO06009958 A2	20061219	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO06009958 A2	20061219	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	TEXT : DE
WO06009958 A3	20070926	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO

Title: **Three wheel Scooter** (Machine translation)

Abstract: Source: CN304046702S **Machine translation:** 1. The name of the product incorporating the design: **three wheeled scooter**. 2. The use of the product incorporating the design: the product incorporating the design used for recreation, sports and fitness. 3. The Design Essentials of product design: the shape of the product. 4. Most shows to the images or photographs of the design design elements: solid figures.

Classifications:

Locarno class: 21/01



Family:

Publication number	Publication date	Application number	Application date
CN304046702 S	20170215	CN201630558798F	20161117

Priority:

CN201630558798F 20161117

Probable Assignee: LI LUSHENG
Assignee(s): LI LUSHENG

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN304046702 S	20170215	LSGT	+	granted / extensions (spc, cpc, pte)	
CN304046702 S	20261117	PEXP		Calculated Patent Term Expiry	

Title: LATCH ASSEMBLY FOR VEHICLE POWER SUPPLY

Abstract: A latch assembly is provided for securing a power supply assembly to a motorized vehicle that facilitates attachment and detachment of the power supply assembly. The latch assembly includes a securing member for releasably coupling the latch assembly to a fixed member on the vehicle. A joining member rotates the securing member in order to engage and release the fixed member. A handle assembly is coupled to the joining member for activation of the latch assembly.

Classifications:

International (IPC 8-9): B60L9/00 B62K5/00 (Advanced/Invention);
B60L9/00 B62K5/00 (Core/Invention)

International (IPC 1-7): B60L9/00

CPC: B62K5/025

European: B62K5/025

US: 191/1.00R 191/1.00RP 191/1R

PatBase - US2005224306_AA

Patent Application Publication Oct. 13, 2005 Sheet 1 of 10 US 2005/0224306 A1

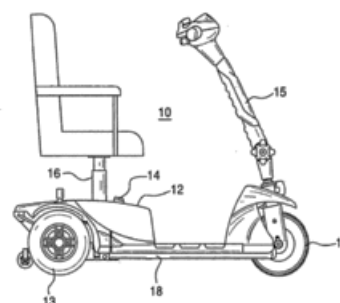


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
US2005224306 AA	20051013	US20050080273	20050315

Priority:

US2004053588P 20040315 US20050080273 20050315

Probable Assignee: PRIDE MOBILITY PRODUCTS CORP

Assignee(s): (std): KOSCO JAMES M

Assignee(s): PRIDE MOBILITY PRODUCTS CORP

Inventor(s): (std): KOSCO JAMES M

Inventor(s): KOSCO JAMES

Agent(s): DRINKER BIDDLE AND REATH, ATTN: INTELLECTUAL PROPERTY GROUP; DRINKER BIDDLE AND REATH
ATTN INTELLECTUAL PROPERTY GROUP

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2005224306 AA	20051013	LSPB	+	published / reissued	
US2005224306 AA	20050427	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : PRIDE MOBILITY PRODUCTS CORPORATION, PENNSYLVANIA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:KOSCO, JAMES M.; REEL/FRAME:016494/0794 EFFECTIVE DATE : 20050314
US2005224306 AA	20070622	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2005224306 AA	20070622	LSWD	-STCB	INFORMATION ON STATUS: APPLICATION	TEXT : ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION

Title: IMPROVED **THREE-WHEELED SCOOTER**

Abstract: An improved **three-wheeled scooter** includes a head tube (10), a steering tube (11), a handle (12), a front wheel (13), a carrier (14), and rear wheels (16). The carrier (14) is mounted to a rear side of the head tube (10). The rear wheels (16) are mounted to opposite sides of a rear end of the carrier (14). The front wheel (13) is mounted to a bottom end of the steering tube (11). A rotation shaft (131) of the front wheel is located behind a centerline (Y) of the head tube. The handle (12) is mounted to a top end of the steering tube (11), and then extends up in an inclination angle about **75 - 90** degrees. The carrier includes left and right carrier poles (141) which are shortened. The front wheel (13) and the rear wheels (16) are substantially arranged in an equilateral triangle. The front wheel (13) can do S-shaped swing in a great angle, thereby improving the sliding speed of the **three-wheeled scooter**.

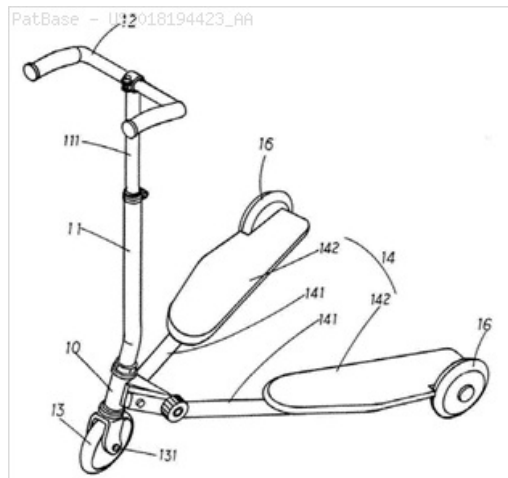
Classifications:

International (IPC 8-9): B62K21/00 B62K3/00 B62K5/02 B62K5/06 B62K5/08 B62K9/02 (Advanced/Invention)

CPC: B62K3/002 B62K21/00 B62K5/08 B62K5/06 B62K5/02 B62K9/02

JP F-Term: 3D011 3D011/AA04 3D011/AC04 3D011/AD01

JP F-Index: B62K5/02



Family:

Publication number	Publication date	Application number	Application date
CN204937341 U	20160106	CN201520639459U	20150824
GB201800048 A0	20180214	GB20180000048	20160812
GB2556243 A1	20180523	GB20180000048	20160812
JP2018520054 T2	20180726	JP20180501989T	20160812
US2018194423 AA	20180712	US20160741492	20160813
WO17031915 A1	20170302	WO2016CN000448	20160812

Priority:

CN201520639459U 20150824 WO2016CN000448 20160812 WO2016CN000448 20160813

Probable Assignee: HL CORP SHENZHEN

Assignee(s): (std): FAN ZHENG NENG ; HL CORP SHENZHEN

Assignee(s): FAN ZHEN ENERGY

Inventor(s): (std): CHENG NENG FAN ; FAN CHENG NENG ; FAN ZHENG NENG

Agent(s): SKIP LAW FIRM

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)

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Patent	Date recorded	Event group	Code	Event	Details
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CN204937341 U	20160106	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN204937341 U	20171013	LSLE	-CF01	TERMINATION OF PATENT RIGHT DUE TO NON-PAYMENT OF ANNUAL FEE	
CN204937341 U	20250824	PEXP		Calculated Patent Term Expiry	
GB2556243 A1	20180523	LSPB	+	published / reissued	
JP2018520054 T2	20180726	LSPB	+	published / reissued	
JP2018520054 T2	20180426	LSSES	+A621	WRITTEN REQUEST FOR APPLICATION	TEXT : JAPANESE INTERMEDIATE CODE: A621

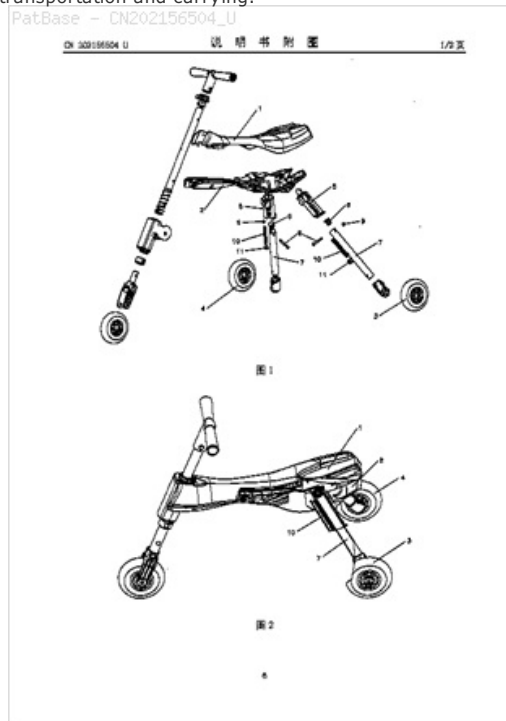
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JP2018520054 T2	20181016	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20181016
JP2018520054 T2	20190110	LSRE	A521	WRITTEN AMENDMENT	TEXT : JAPANESE INTERMEDIATE CODE: A523 EFFECTIVE DATE : 20190110
JP2018520054 T2	20190423	LSES	-A131	NOTIFICATION OF REASONS FOR REFUSAL	TEXT : JAPANESE INTERMEDIATE CODE: A131 EFFECTIVE DATE : 20190423
US2018194423 AA	20180712	LSPB	+	published / reissued	
US2018194423 AA	20180102	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : HL CORP (SHENZHEN), CHINA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR:FAN, CHENG-NENG; REEL/FRAME:044519/0346 EFFECTIVE DATE : 20171228
US2018194423 AA	20190206	LSES	ADV1	Advisory Action Mailed	
WO17031915 A1	20170302	LSPB	+	published / reissued	
WO17031915 A1	20180103	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	TEXT : PCT FILING DATE = 20160812 REF DOCUMENT NUMBER : 201800048 COUNTRY OF REF DOCUMENT : GB KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO17031915 A1	20180110	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	REF DOCUMENT NUMBER : 2018501989 COUNTRY OF REF DOCUMENT : JP KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO17031915 A1	20180227	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO17031915 A1	20180919	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 16838185 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A1 DESIGNATED STATE(S) :

Title: Rear feet folding structure of **three-wheeled scooter** for children

Abstract: The utility model discloses a rear feet folding structure of a **three-wheeled scooter** for children, relating to a foldable **three-wheeled scooter** for children; the rear feet folding structure of the **three-wheeled scooter** for children comprises a left rear foot mechanism and a right rear foot mechanism; the left rear foot mechanism and the right rear foot mechanism respectively comprise rear foot folding sliding sleeves, rear foot tube stoppers, rear foot tubes, rear foot connecting screw rods, rear foot connecting nuts, rear foot folding springs and rear foot folding and locating check blocks, wherein the rear foot connecting screw rods penetrate through screw holes of a screw hole plate, screw rod chutes of the rear foot folding sliding sleeves, screw holes of the rear foot tubes and screw holes of the rear foot tube stoppers sequentially to movably connect a rear base, the rear foot folding sliding sleeves, the rear foot tubes and the rear foot tube stoppers; and a left rear wheel and a right rear wheel are respectively arranged at the lower ends of the rear foot tubes of the left rear foot mechanism and the right rear foot mechanism, thereby folding a frame when in transportation. The **three-wheeled scooter** has very small volume, and the consumable packaging material is reduced, thereby being convenient for transportation and carrying.

Classifications:

International (IPC 8-9): B62K15/00 B62K9/02 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN202156504 U	20120307	CN201120237309U	20110705

Priority:

CN201120237309U 20110705

Probable Assignee:

YULING SHI

Assignee(s): (std):

YULING SHI

Assignee(s):

SHI YULING

Inventor(s): (std):

YULING SHI

Inventor(s):

SHI YULING

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
CN202156504 U	20120307	LSGT	+	granted / extensions (spc, cpc, pte)	
CN202156504 U	20120307	LSGT	+C14	GRANT OF PATENT OR UTILITY MODEL	
CN202156504 U	20170818	LSLE	-CF01	TERMINATION OF PATENT RIGHT DUE TO NON-PAYMENT OF ANNUAL FEE	
CN202156504 U	20210705	PEXP		Calculated Patent Term Expiry	

Title: PORTABLE REAR-VIEW MIRROR

Abstract: The device has a bracelet (1) fixed to a hand using holes and pins that penetrate in the holes. A case (2) has an opening and a base side that contacts with a plate, and a mirror (7) is received in the opening, where the plate is made of steel, and the bracelet is made of rubber. A lower part of the bracelet has a tab of concave shape complementary to the shape of palm of a hand. The bracelet has a section extending from an upper end of the plate to a lower end of the plate. Sound alarms (25) are integrated with the bracelet and the case, and are activated by a push button (20).

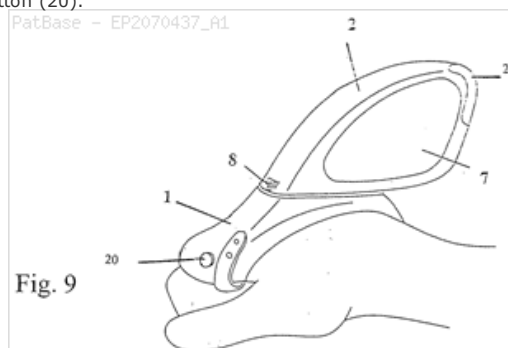
Classifications:

International (IPC 8-9): A45D42/06 B60Q1/36 B60R1/02 B62J29/00 B62J3/00 B62J6/00 B62J6/16 (Advanced/Invention);

A45D42/00 B60Q1/34 B60R1/02 B62J29/00 B62J3/00 B62J6/00 (Core/Invention)

CPC: A45D42/06 A45F5/00 A45F2005/008 B62J3/00 B62J29/00 B62J6/005

European: A45D42/06 A45F5/00 B62J29/00 B62J3/00 B62J6/00C K45D42/06 K45F5/00W



Family:

Publication number	Publication date	Application number	Application date
EP2070437 A1	20090617	EP20080291123	20081128
FR2924676 A1	20090612	FR20070008568	20071210
FR2924676 B1	20100521	FR20070008568	20071210
FR2932769 A1	20091225	FR20080003399	20080618
FR2932769 B1	20110114	FR20080003399	20080618
FR2934131 A1	20100129	FR20080004247	20080725
FR2934131 B1	20100827	FR20080004247	20080725

Priority:

FR20070008568 20071210 FR20080003399 20080618 FR20080004247 20080725

Probable Assignee: KALOGEROPOULOS LEONIDAS

Assignee(s): (std): KALOGEROPOULOS LEONIDAS

Assignee(s): LEONIDAS KALOGEROPOULOS

Inventor(s): (std): KALOGEROPOULOS LEONIDAS

Inventor(s): LEONIDAS KALOGEROPOULOS

Agent(s): EIDELSBURG OLIVIER NATHAN; CABINET FLECHNER

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
EP2070437 A1	20090617	LSPB	+	published / reissued	
EP2070437 A1	20100127	LSSES	+17P	REQUEST FOR EXAMINATION FILED	EFFECTIVE DATE : 20091217
EP2070437 A1	20100210	LSSES	+17Q	FIRST EXAMINATION REPORT DESPATCHED	EFFECTIVE DATE : 20100111
EP2070437 A1	20100224	LSFE	+AKX	DESIGNATION FEES PAID	COUNTRY OF REF DOCUMENT : AT COUNTRY OF REF DOCUMENT : BE COUNTRY OF REF DOCUMENT : BG COUNTRY OF REF DOCUMENT : CH COUNTRY OF REF DOCUMENT : CY COUNTRY OF REF DOCUMENT : CZ COUNTRY OF REF DOCUMENT : DE COUNTRY OF REF DOCUMENT : DK COUNTRY OF REF DOCUMENT : EE COUNTRY OF REF DOCUMENT : ES

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EP2070437 A1	20130731	LSGT	+INTG	INTENTION TO GRANT ANNOUNCED	EFFECTIVE DATE : 20130704
EP2070437 A1	20140514	LSDW	-18D	APPLICATION DEEMED TO BE WITHDRAWN	EFFECTIVE DATE : 20131115
FR2924676 A1	20090612	LSPB	+	published / reissued	
FR2924676 B1	20100521	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2924676 B1	20151021	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 9
FR2924676 B1	20161123	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 10
FR2924676 B1	20180831	LSLE	-ST	NOTIFICATION OF LAPSE	
FR2924676 B1	20180928	LSLE	-ST	NOTIFICATION OF LAPSE	EFFECTIVE DATE : 20180831
FR2924676 B1	20271210	PEXP		Calculated Patent Term Expiry	
FR2932769 A1	20091225	LSPB	+	published / reissued	
FR2932769 A1	20160526	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 9
FR2932769 A1	20170607	LSFE	+PLFP	FEE PAYMENT	YEAR OF FEE PAYMENT : 10
FR2932769 B1	20110114	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2932769 B1	20280618	PEXP		Calculated Patent Term Expiry	
FR2934131 A1	20100129	LSPB	+	published / reissued	
FR2934131 B1	20100827	LSGT	+	granted / extensions (spc, cpc, pte)	
FR2934131 B1	20150424	LSLE	-ST	NOTIFICATION OF LAPSE	EFFECTIVE DATE : 20150331
FR2934131 B1	20280725	PEXP		Calculated Patent Term Expiry	

Title: WHEELCHAIR DOCKING SYSTEM

Abstract: A docking system for securing a wheelchair into a vehicle in which a docking shoe is firmly attached to either the frame of the wheelchair or to the floor of the vehicle, or both. A firm anchor device, which may be a second docking shoe, is firmly attached to the other of the floor and wheelchair. A docking arm is mounted vertically in the anchor device and the wheelchair is positioned in the vehicle so that the docking shoe and the anchor device are vertically aligned one above the other so that the docking arm can be slidably and releasably locked into the docking shoe. Preferably, the docking shoe includes an electrically operated, spring loaded, release mechanism.

Classifications:

International (IPC 8-9): A61G3/08 B60P3/00 B60P3/06 B60P3/073

B60P3/08 B60P7/08 (Advanced/Invention);

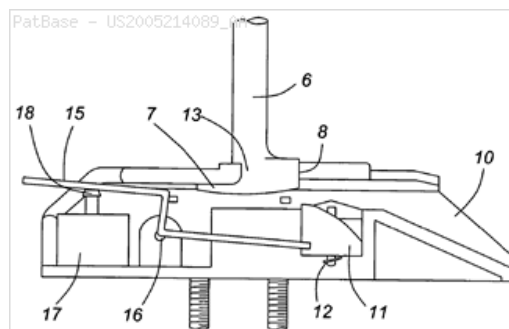
A61G3/00 B60P3/06 B60P7/06 (Core/Invention)

International (IPC 1-7): B60P3/06

CPC: A61G3/0808 B60P7/0807 B60P3/073 A61G3/08

European: A61G3/08 B60P3/073 B60P7/08A

US: 410/7 410/7P

**Family:**

Publication number	Publication date	Application number	Application date
DE112005003276 T5	20080228	DE200511003276T	20051223
GB200712056 A0	20070801	GB20070012056	20051223
GB2435193 A1	20070815	GB20070012056	20051223
GB2435193 B2	20081001	GB20070012056	20051223
US2005214089 AA	20050929	US20040808407	20040325
US2005214090 AA	20050929	US20040024751	20041230
US2009214314 AA	20090827	US20050083160	20051223
US7104740 BB	20060912	US20040808407	20040325
US7229238 BB	20070612	US20040024751	20041230
WO05102775 A1	20051103	WO2005US05592	20050224
WO06073880 A2	20060713	WO2005US46709	20051223
WO06073880 A3	20070419	WO2005US46709	20051223

Priority:

US20040808407 20040325 US20040024751 20041230 US20050083160 20051223
 WO2005US46709 20051223

Probable Assignee: VALEDA CO LLC

Assignee(s): (std): ESTEIREIRO JOE ; GIRARDIN JEAN MARC ; KAZANCHY JOHN ; VALEDA CO LLC ; VALEDA CO LLC DBA Q STRAI ; VALEDA COMPANY LLC ; VALEDA COMPANY LLC DBA Q STRAI

Assignee(s): VALEDA COMPANY LLC DBA Q STRAINT ; VALEDA CO LLC DBA Q STRAINT ; VALEDA CO LLC (DBA Q'STRAINT) ; VALEDA CO

Inventor(s): (std): GIRARDIN JEAN MARC ; KAZANCHY JOHN ; ESTEIREIRO JOE

Inventor(s): JOHN KAZANCHY ; JEAN MARC GIRARDIN ; JOE ESTEIREIRO

Agent(s): RALPH A DOWELL OF DOWELL AND DOWELL PC; DOWELL AND DOWELL PC; DAVID I ROCHE BAKER AND MCKENZIE LLP; BAKER AND MCKENZIE LLP; DAVID I; DANIEL A

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

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
DE112005003276 T5	20080228	LSPB	+	published / reissued	
DE112005003276 T5	20080228	LSSES	+OP8	REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW	
DE112005003276 T5	20101021	LSLE	-8139	DISPOSAL/NON-PAYMENT OF THE ANNUAL FEE	
GB2435193 A1	20070815	LSPB	+	published / reissued	
GB2435193 B2	20081001	LSGT	+	granted /	

				extensions (spc, cpc, pte)	
GB2435193 B2	20100825	LSLE	-PCNP	PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE	EFFECTIVE DATE : 20091223
GB2435193 B2	20251223	PEXP		Calculated Patent Term Expiry	
US2005214089 AA	20050929	LSPB	+	published / reissued	
US2005214089 AA	20060823	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2005214090 AA	20050929	LSPB	+	published / reissued	
US2005214090 AA	20060406	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : VALEDA COMPANY, LLC., FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: GIRARDIN, JEAN-MARC; KAZANCHY, JOHN; ESTEIREIRO, JOE; REEL/FRAME: 017442/0997; SIGNING DATES FROM 20060209 TO 20060215
US2005214090 AA	20070523	LSGT	STCF	INFORMATION ON STATUS: PATENT GRANT	TEXT : PATENTED CASE
US2009214314 AA	20090827	LSPB	+	published / reissued	
US2009214314 AA	20111010	LSWD	-ABD3	Abandoned -- Failure to Respond to an Office Action	
US2009214314 AA	20111010	LSWD	-STCB	INFORMATION ON STATUS: APPLICATION DISCONTINUATION	TEXT : ABANDONED -- FAILURE TO RESPOND TO AN OFFICE ACTION
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US7104740 BB	20060823	LSGT	PAT1	Patented Case	
US7104740 BB	20100219	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 4
US7104740 BB	20140225	LSFE	+FPAY	FEE PAYMENT	YEAR OF FEE PAYMENT : 8
US7104740 BB	20180329	LSFE	FEPP	FEE PAYMENT PROCEDURE	TEXT : 11.5 YR SURCHARGE- LATE PMT W/IN 6 MO, SMALL ENTITY (ORIGINAL EVENT CODE: M2556)
US7104740 BB	20180329	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US7104740 BB	20240325	PEXP		Calculated Patent Term Expiry	
US7229238 BB	20070612	LSGT	+	granted / extensions (spc, cpc, pte)	
US7229238 BB	20041230	LSAS	AS	ASSIGNMENT	PARTYTYPE : OWNER OWNER : VALEDA COMPANY LLC (DBA Q'STRAIT), FLORIDA OLDPARTY : ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNORS: GIRARDIN, JEAN-MARC; KAZANCHY, JOHN; ESTEIREIRO, JOE; REEL/FRAME: 016132/0831; SIGNING DATES FROM 20041221 TO 20041222
US7229238 BB	20070523	LSGT	PAT1	Patented Case	

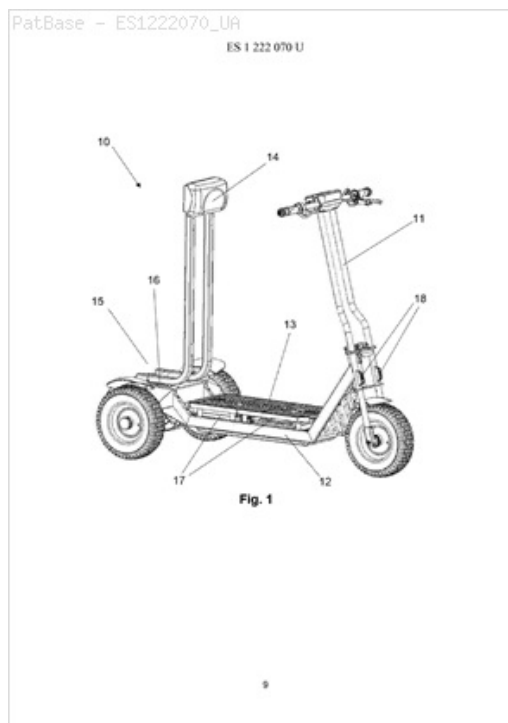
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US7229238 BB	20181115	LSFE	+MAFP	MAINTENANCE FEE PAYMENT	YEAR OF FEE PAYMENT : 12
US7229238 BB	20241230	PEXP		Calculated Patent Term Expiry	
WO05102775 A1	20051103	LSPB	+	published / reissued	
WO05102775 A1	20060926	LSNE	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:	REF COUNTRY CODE : DE
WO05102775 A1	20060926	LSWD	-WWW	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE	TEXT : DE
WO05102775 A1	20070509	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF COUNTRY CODE : WO
WO06073880 A2	20060713	LSPB	+	published / reissued	
WO06073880 A3	20070621	LSNP	ENP	ENTRY INTO THE NATIONAL PHASE IN:	TEXT : PCT FILING DATE = 20051223 REF DOCUMENT NUMBER : 0712056 COUNTRY OF REF DOCUMENT : GB KIND CODE OF REF DOCUMENT : A DESIGNATED STATE(S) :
WO06073880 A3	20070621	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 0712056.1 COUNTRY OF REF DOCUMENT : GB
WO06073880 A3	20070628	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 1120050032760 COUNTRY OF REF DOCUMENT : DE
WO06073880 A3	20080213	LSNE	-122	EP: PCT APPLICATION NON-ENTRY IN EUROPEAN PHASE	REF DOCUMENT NUMBER : 05855294 COUNTRY OF REF DOCUMENT : EP KIND CODE OF REF DOCUMENT : A2 DESIGNATED STATE(S) :
WO06073880 A3	20081217	LSNP	+WWE	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE	REF DOCUMENT NUMBER : 12083160 COUNTRY OF REF DOCUMENT : US

Title: VEHICULO ELECTRICO LIGERO PARA USO PROFESIONAL Lightweight ELECTRIC VEHICLE FOR PROFESSIONAL USE (Machine translation)

Abstract: Source: ES1222070U [ES] 1. Vehículo eléctrico ligero para uso profesional de los que son del tipo patinete, con propulsión por motor eléctrico alimentado por una o más baterías, que disponen de manillar para su conducción, o sistema de dirección similar o análogo, y bastidor con plataforma de apoyo para el usuario-conductor, caracterizado en que el bastidor (12) dispone de una estructura metálica con capacidad y espacio de carga posterior (15) a la plataforma (13) de apoyo del usuario, con unos medios de anclaje/sujeción (16) de equipos o elementos auxiliares, en donde las baterías (17) que se utilizan son intercambiables y el sistema de carga de las mismas no tiene una conexión directa a la batería desde el suministro externo, disponiéndose de unos medios de conexión (18) al suministro eléctrico externo propios del vehículo eléctrico ligero (10), ubicados en una de las zonas externas del bastidor (12), manillar (11) o piezas accesibles. **Machine translation:** 1. Lightweight electric vehicle for professional use of the scooter, which are of the type with propulsion by electric motor powered by one or more batteries, which have handlebars for driving, or steering system similar or analogous, and frame with support platform for the user, characterized in that the frame (12) has a metal structure with capacity and rear cargo space (15) to the platform (13) supporting the user, with means for anchoring / fastening (16) of equipment or auxiliary elements, wherein the battery (17) that are used are interchangeable and the charging system of the same does not have a direct connection to the battery from the external supply, provided with means of Connection (18) to the own external power supply of the electric vehicle (10), located in one of the external areas of the frame (12), handlebars (11) or parts accessible.

Classifications:

International (IPC 8-9): A63C 17/04 B62K5/025
B62K7/04 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
ES1222070 UA	20181218	ES20180031479U	20180928

Priority:

ES20180031479U 20180928

Probable Assignee: AGRUPACION COM MECANICA S L

Assignee(s): (std): AGRUPACION COM MECANICA S L

Assignee(s): AGRUPACION COMERCIAL MECANICA SL

Inventor(s): (std): SUREDA EZCURRA XAVIER

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
ES1222070 UA	20181218	LSPB	+	published / reissued	
ES1222070 UA	20181218	LSPB	+CA1K	UTILITY MODEL APPLICATION PUBLISHED	REF DOCUMENT NUMBER : 1222070 COUNTRY OF REF DOCUMENT : ES KIND CODE OF REF DOCUMENT : U DESIGNATED STATE(S) : EFFECTIVE DATE : 20181218

ES1222070 UA 20190311

LSGT

+FG1K

UTILITY MODEL GRANTED

REF DOCUMENT NUMBER :

1222070

COUNTRY OF REF

DOCUMENT : ES

KIND CODE OF REF

DOCUMENT : Y

DESIGNATED STATE(S) :

EFFECTIVE DATE :

20190305

Title: Scooter jack

Abstract: A lift device for the front wheel of a tubular framed **three wheeled scooter** includes a jack. A cantilever arm has one end attached to the jack with the arm constrained to move in essentially a vertical direction. A pin is attached to the other end of the arm. The pin is adapted to fit into a portion of the tubular frame adjacent the front wheel to effect a lifting of same by operation of the jack.

Classifications:

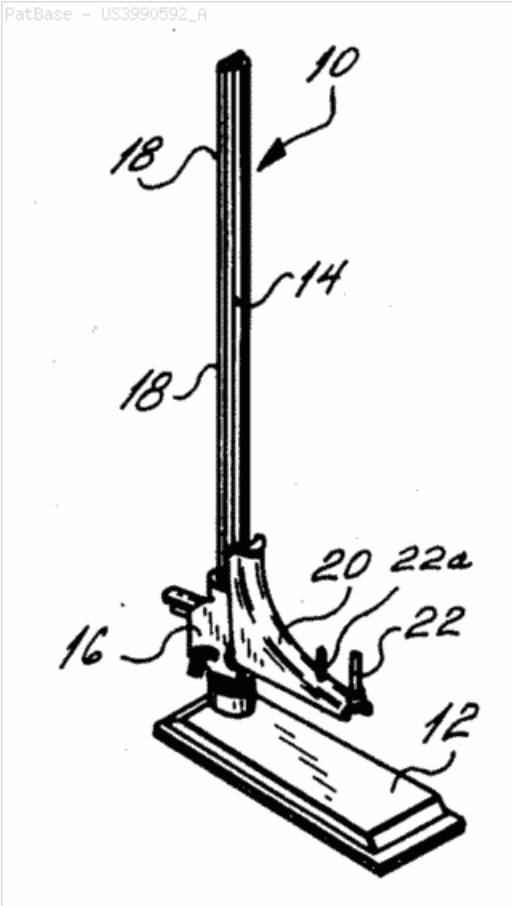
International (IPC 8-9): B60S13/00 B66F1/06 (Advanced/Invention);
B60S13/00 B66F1/00 (Core/Invention)

International (IPC 1-7): B60P3/06

CPC: B60S13/00 B66F1/06

European: B60S13/00 B66F1/06

US: 214/330 254/133R 254/134 280/47.34 414/426 414/430



Family:

Publication number	Publication date	Application number	Application date
US3990592 A	19761109	US19750570343	19750421

Priority:

US19750570343 19750421

Probable Assignee: MIGLIANO CLEMENTE A

Assignee(s): (std): MIGLIANO CLEMENTE A

Inventor(s): (std): MIGLIANO CLEMENTE A

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US3990592 A	19761109	LSGT	+	granted / extensions (spc, cpc, pte)	