

Search history

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100 Documents

Publication numbers	Title	Current assignees
US20080217085 A1	Three-wheeled rear-steering scooter	SBYKE
CN204937341U U	Improved three-wheeled scooter	HL
CN202665828U U	Steering device for three-wheeled scooter	WANG PING
CN202156495U U	Electric three-wheeled scooter with adjustable seat	JIANGSU JINPENG VEHICLE
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CN108528592 A	Electric three-wheeled scooter	SHANGHAI MARITIME UNIVERSITY
CN204452706U U	Self-balancing three-wheeled mobility scooter	PUTIAN UNIVERSITY
CN103204217 A	Hand-driven and foot-controlled three-wheeled scooter	SHANGHAI UNIVERSITY
CN202315244U U	Three-wheeled toy scooter with new driving device	LI ZHUOFAN
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CN202541714U U	Three-wheeled scooter luggage	LIAO FEIHONG
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CN203581208U U	Novel three-wheeled scooter	OBSIDIAN DONGGUAN PLASTIC CORPORATE
CN201834141U U	Open and closed type three-wheeled scooter with toothed plate limiting	MOU JUNGUO
CA2811039 A1	Swing arm device for electric two- or three-wheeled vehicle	HONDA MOTOR
CN205524684U U	Three -wheeled scooter rear wheel is from balance mechanism	X L T INTERNATIONAL ELECTRONICS
CN102285416 A	Seesaw double-swinging three-wheeled scooter	TAICANG CHEZHONGBAO LEISURE ARTICLES
CN206856882U U	Three -wheeled scooter	DU QIMING
CN206476000U U	Be adapted to electronic three -wheeled scooter of many topography	TONG HONGDENG
CN202657178U U	Three-wheeled scooter	HU KANGDA
CN202186467U U	Forefoot folding structure for three-wheeled scooter	SHI YULING
CN201472550U U	Pedal type three-wheeled scooter	LÜ GAOBO
CN206437144U U	Novel electronic folding three -wheeled scooter	TONG HONGDENG
CN205345240U U	Three -wheeled scooter	GUANGDONG MESUCA

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		SPORTS
CN202879701U U	Novel three-wheeled scooter	LI JING
CN201961448U U	Spark-throwing three-wheeled scooter	ZHEJIANG JINBANG SPORTS EQUIPMENT
CN207191268U U	Children can sit and to ride three -wheeled scooter	YONGKANG WANYU INDUSTRY & TRADE
CN109808816 A	Three-wheeled scooter	JINHUA COLLEGE OF PROFESSION AND TECHNOLOGY
WO201133605 A1	Electric two- or three-wheeled vehicle	HONDA MOTOR
CN205059881U U	Folding sitting posture three -wheeled scooter of Z shape	TAICANG CHEZHONGBAO LEISURE ARTICLES
CN207433719U U	Three -wheeled scooter of adjustable height	ZHEJIANG FIVE LOAVES TWO FISH INDUSTRIAL
CN205059882U U	Tighten cloth saddle formula three -wheeled scooter	TAICANG CHEZHONGBAO LEISURE ARTICLES
CN208470032U U	Three -wheeled scooter	GUANGDONG NEW BAKERS INDUSTRY BY SHARE
CN105836011 A	Child's sitting-type scooter with three wheels	TAICANG CHEZHONGBAO LEISURE ARTICLES
KR20050090227 A	Wheel exchangeable scooter	YANG KYUNG SUK
CN101612974 A	Novel three-wheeled sliding plate whole-body body-building scooter	YANGZHOU XIRUIDE AUTOMOBILE PARTS
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CN101348148 A	Electric-motor three-wheeled vehicle	HONDA MOTOR
CN205661600U U	Three -wheeled scooter with storing function	LOU JINGJING
CN208411966U U	Multi -functional three -wheeled scooter	SUZHOU ART & DESIGN TECHNOLOGY INSTITUTE
CN201961450U U	Water spraying three-wheeled scooter	ZHEJIANG JINBANG SPORTS EQUIPMENT
KR101218337 B1	Three-wheeled electric vehicle	KOREA ADVANCED INSTITUTE OF SCIENCE & TECHNOLOGY
CN204137223U U	Three-wheeled scooter	DU XIAOXIAO
JP2009248887 A	Three-wheeled motorcycle	VIEWTEC JAPAN
CN202716982U U	Electric three-wheeled scooter	WU SHUAI
WO201856819 A2	Scooter	BOLT MOBILITY
CN207510610U U		

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	Take three -wheeled scooter of function of running	WENZHOU AIRUIDE TECHNOLOGY
RU-182175 U1	Three-wheeled kick scooter	
CN205034272U U	Three -wheeled electric scooter	ZHEJIANG QUNYING VEHICLES
WO2016108354 A1	Three-wheeled boarding apparatus capable of tilting	LEE JONG-HO, ...
EP-444975 A1	Scooter body and front-wheel drive type electromotive scooter .	TOKYO R&D
JP2011033613W A1	Electrically powered two- or three-wheeled vehicle with a special wiring structure	HONDA MOTOR
CN204472998U U	Color-ball music three-wheeled frog kick scooter	ZHU SIXUE
JP2009040382 A	Two-wheel and three-wheel motorcycles or three wheeled car with prime motor and roof carrier using the same	SHONAN MECHANIC, ...
CN203975112U U	Novel rear wheel suspension assembly of three-wheeled scooter	DENG WEIQIANG
US20140054870 A1	Three-wheeled rear-steering scooter	SBYKE
CN205292916U U	Multi -functional children three -wheeled scooter	NIE JUNBO
CN106741423 A	Foldable tricycle	GUANGZHOU ALLLU TECHNOLOGY
CN107380314 A	Motorcycle hood structure of three-wheeled electric motorcycle	XINXIANG HANBANG ELECTRIC VEHICLE PARTS
IT2004MI2340 A1	Method for replacing the front wheels of a three-wheeled vehicle	PIAGGIO & C
CN105966513 A	Electric three-wheel scooter	HEBEI UNIVERSITY OF TECHNOLOGY
CN201951632U U	Totally-enclosed ordinary passenger-goods three-wheeled /four-wheeled vehicles for disabled persons to drive	SU SHEFANG
CN202156504U U	Rear feet folding structure of three-wheeled scooter for children	SHI YULING
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JP2008296723 A	Three-wheeled vehicle	NIPPON VIEW TEC
CN202272143U U	Travelling and parking dual-purpose brake controller for light three-wheeled motorcycle	LUOYANG DAYUN THREE ROUND MOTORCYCLE
EP2371691 A2	Drift scooter	VALENCIA SPORTS, ...
CN101224771 A	Front fender structure for motorcycle and motor tricycle	HONDA MOTOR
CN201573716U U	Micro right three-wheeled electric car	XIONG YAOBANG
US20030052471 A1	Three-wheeled scooter apparatus	GRAFTON RICHARD
CN106697150 A	Telescopic handle vibration-avoidance type portable three-wheeled power-driven pedal bike	TAICANG CHEZHONGBAO LEISURE ARTICLES

Publication numbers	Title	Current assignees
CN106672144 A	Foldable and vibration absorption type three-wheeled electric pedal bike with rapid telescopic handlebar	TAICANG CHEZHONGBAO LEISURE ARTICLES
CN102043885 A	Motorcycle and two/ three-wheeled vehicle collision accident simulation and reproduction system	CHANG'AN UNIVERSITY
KR20130045124 A	Three-wheeled scooter capable of stably cornering with an auto-landing hydraulic shock absorber	YOO, JUNG HOON
IN1997CH00256 A	Motor-driven three wheeled vehicle	CITYMOBIL
CN202844524U U	Three-wheeled pedal folded scooter	KUNMING UNIVERSITY OF SCIENCE & TECHNOLOGY
CN203714086U U	Folding three-wheeled electric scooter for old people	SUN SHIHUA, ...
CN2759918U Y	Three-wheeled electric scooter	TAIZHOU CITY HUANGYAN HUAYANG ELECTRIC BICYCLE
JP2005125864 A	Seat for motorcycle and three-wheeled motorcycle	TS TECH
CN2437576U Y	Three-wheeled torsion scooter	CENG SHUHUA
CN208616123U U	Three-wheeled electric scooters	DONGGUAN QIANGYI HARDWARE & PLASTIC TECHNOLOGY
DE102013213381 A1	Device for a two-wheeled or three-wheeled vehicle, braking system and method for operating a braking system	CONTINENTAL TEVES
IN-189688 B	A stand stopper apparatus for a two or three wheeled motorcycle	HONDA MOTOR
CN101934849 A	Three-wheeled scooter	SONG YU
CN201441808U U	Three-wheeled skateboard system and method	SANSEGAL CHINA HONG KONG
US20180257727 A1	Foldable three-wheeled scooter	YE JIN
CN106672150 A	Suspension type portable three-wheeled pedal bike with folding handlebar	TAICANG CHEZHONGBAO LEISURE ARTICLES
CN108860406 A	three wheeled motorcycle	WU SHAOCHENG
CN106672136 A	Suspension three-wheeled pedal bike with quick folding handlebar	TAICANG CHEZHONGBAO LEISURE ARTICLES
CN203888953U U	Three-wheeled electric scooter	ZHEJIANG QUNYING VEHICLES
WO201600436 A1	Wind, rain, and sunlight shield apparatus for bicycles and tricycles	FANG SONGYANG
CN201941910U U	Foldable three-wheeled scooter	ZHEJIANG JINBANG SPORTS EQUIPMENT
CN104117199 A	Foldable reversed three-wheeled scooter	GUANGXI COLLEGE WATER RESOURCES & ELECTRIC POWER

Publication numbers	Title	Current assignees
US3746118 A	Three-wheeled vehicle with passenger banking	ALTORFER E
IT99MI0821 A1	A device for regulating the position of a steering bar of a two-wheeled or three-wheeled vehicle	PIAGGIO & C
DE102016220383 A1	Scooter with foot rest arrangement	BMW - BAYERISCHE MOTOREN WERKE
JP2005125865 A	Seat for motorcycle and three-wheeled motorcycle	TS TECH

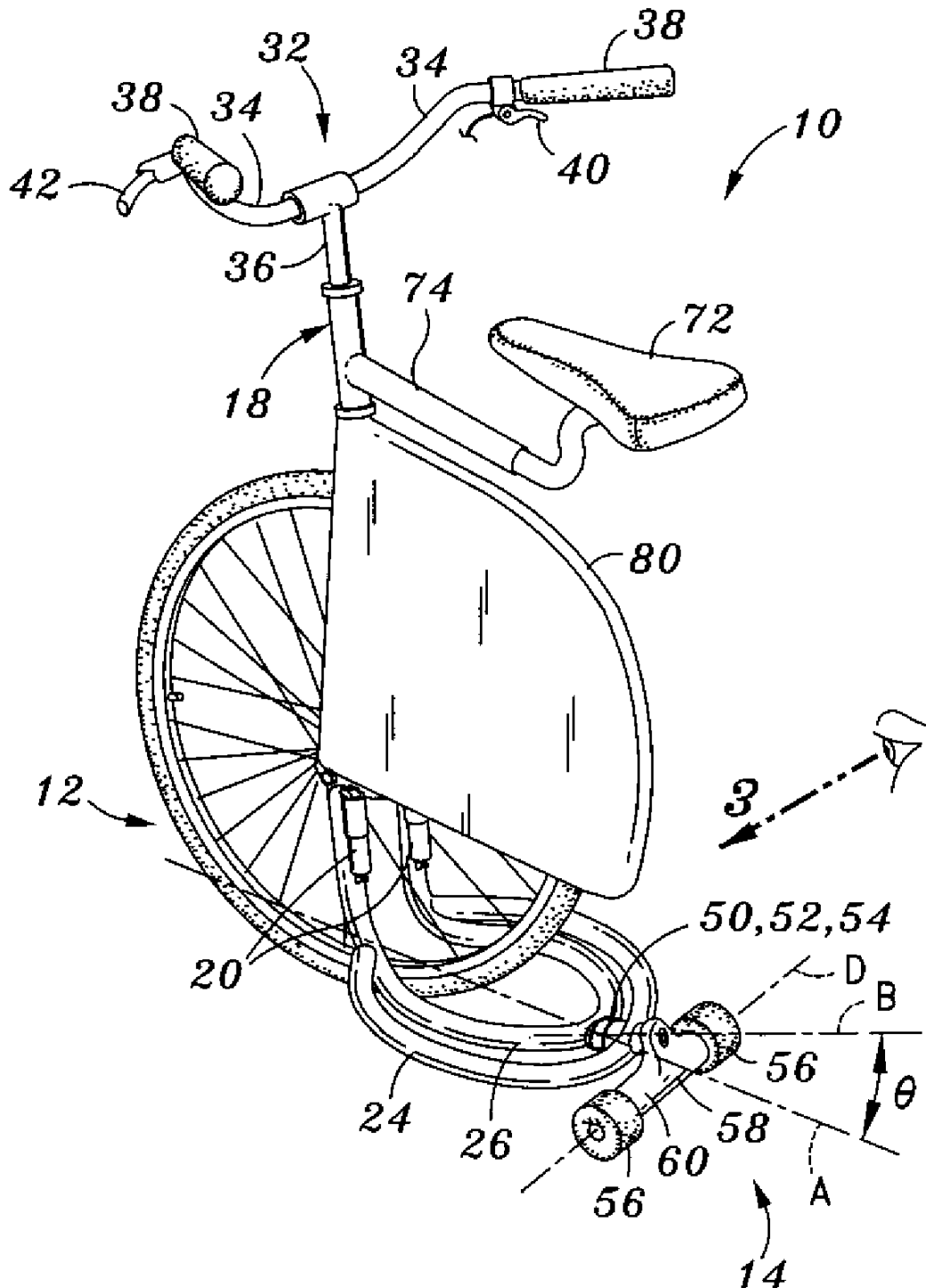
Family 1/100 - FAMPAT - ©Questel

Title

(EP2117912)

Three-wheeled rear-steering scooter

Images



Publication data including kind & date

US20080217085	A1	2008-09-11	US20080217085
WO2008109103	A2	2008-09-12	WO2008109103
CA2680138	A1	2008-09-12	CA2680138
AU2008223367	A1	2008-09-12	AU2008223367
US7540517	B2	2009-06-02	US7540517



EP2117912	A2	2009-11-18	EP2117912				
KR20090130020	A	2009-12-17	KR20090130020				
WO2008109103	A3	2009-12-30	WO2008109103				
MX2009008610	A	2010-01-25	MX2009008610				
IL200545	A	2010-05-17	IL-200545				
JP2010520120	A	2010-06-10	JP2010520120				
CN101808885	A	2010-08-18	CN101808885				
IN2989/KOLNP/2009	A	2010-08-20	IN2009KN02989				
EP2117912	A4	2010-09-01	EP2117912				
US20100225088	A1	2010-09-09	US20100225088				
RU2009136600	A	2011-04-20	RU2009136600				
US8336894	B2	2012-12-25	US8336894				
RU2470820	C2	2012-12-27	RU2470820				
EP2117912	B1	2013-04-10	EP2117912				
JP5265581	B2	2013-05-10	JP5265581				
CN101808885	B	2013-05-22	CN101808885B				
IL200545	B	2013-06-27	IL-200545				
AU2008223367	B2	2013-11-14	AU2008223367				
BRPI0808514	A2	2014-11-04	BR200808514				
CA2680138	C	2015-12-01	CA2680138				
KR101594767	B1	2016-02-17	KR101594767				

Abstract

(EP2117912)

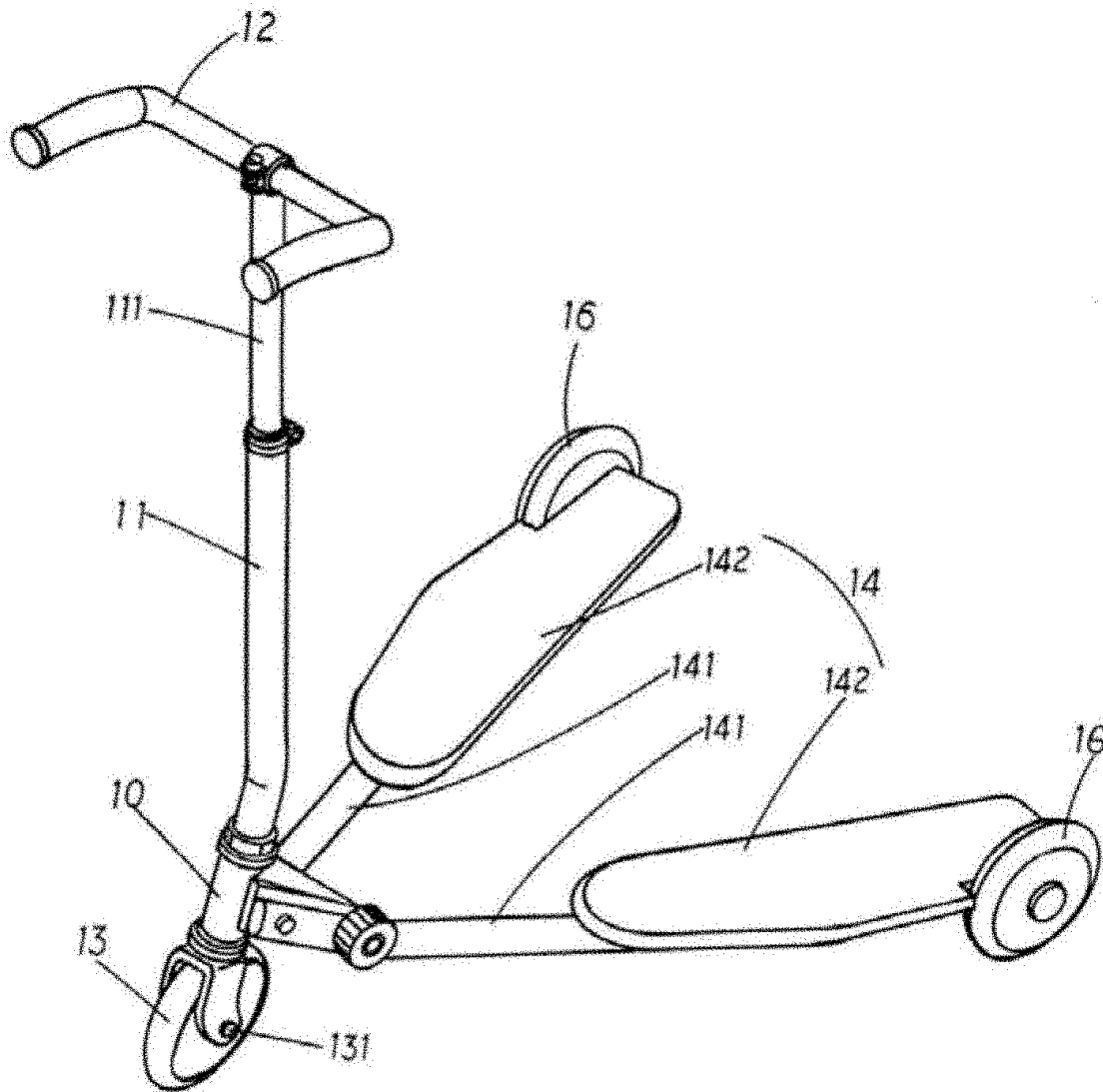
A **three wheeled scooter** comprises a chassis having forward and aft ends with a front wheel non-pivotally mounted to the forward end and a pair of rear wheels coaxially mounted to the aft end. The chassis defines a longitudinal axis and includes a support assembly and a handle assembly extending upwardly from the support assembly. The rear wheels are configured to be angularly yawable relative to the longitudinal axis between a neutral position and a yawed position. Steering of the **scooter** is thereby effectuated by angular yawing of the rear wheels relative to the longitudinal axis such as by asymmetric loading of one of opposing sides of the support assembly.

Family 2/100 - FAMPAT - ©Questel

Title

(WO201731915)

Improved **three-wheeled scooter****Images**



Publication data including kind & date

CN204937341	U	2016-01-06	CN204937341U
WO2017031915	A1	2017-03-02	WO201731915
GB201800048	D0	2018-02-14	GB201800048
GB2556243	A	2018-05-23	GB2556243
US20180194423	A1	2018-07-12	US20180194423
JP2018520054	A	2018-07-26	JP2018520054

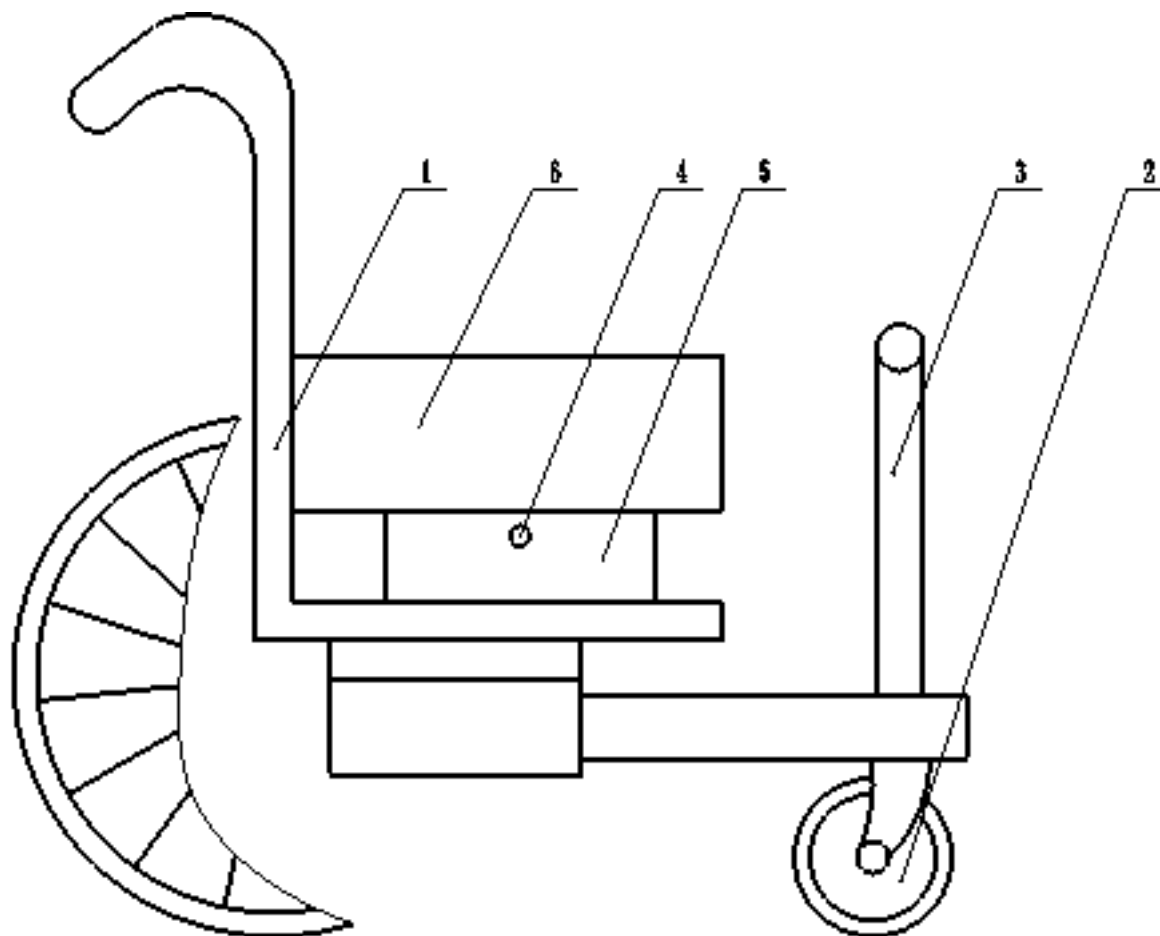


Abstract

(WO201731915)

An improved **three-wheeled scooter** comprises a front tube (10), an erect tube (11), a handle (12), a front wheel (13), carriers (14), and rear wheels (16). The left and right carriers (14) are mounted and connected behind the front tube (10), and the left and right rear wheels (16) are separately mounted on two sides of the back end of the carriers (14). The front wheel (13) is arranged at the lower end of the erect tube (11), and a front wheel rotational shaft (131) is arranged behind a central line (Y) of the front tube. The handle (12) is arranged at the upper end of the erect tube (11). The front tube (10) is arranged at an angle of inclination of 55° to 70°. The lower end of the erect tube (11) is pivotally arranged behind the front tube (10), and leans upwards at an angle of 75° to 90°. In the **three-wheeled scooter**, left and right carrier rods (141) are shortened, the front wheel (13) and the two rear wheels (16) are arranged in the shape of an equilateral triangle, and the front wheel (13) can swing in the S shape at a larger angle, thereby improving the sliding speed of the **three-wheeled scooter**.

(CN202665828U)

Steering device for **three-wheeled scooter****Images****Publication data including kind & date**[CN202665828](#)

U

2013-01-16

[CN202665828U](#)**Abstract**

(CN202665828U)

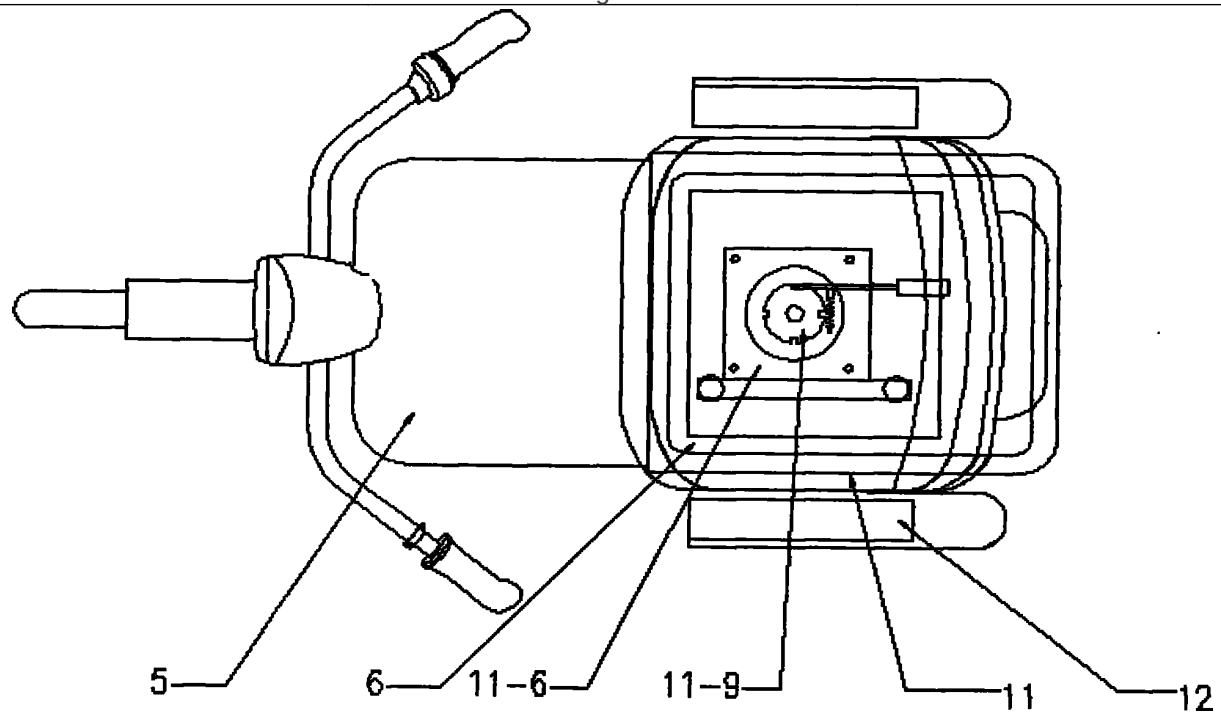
The utility model belongs to the technical field of scooters and particularly relates to a steering device for the **three-wheeled scooter**. A changeable wheelchair armrest is adopted to overcome the defects in the prior art. The utility model provides the steering device with the advantages of simple structure and flexibility in steering for a **three-wheeled scooter**. For solving the technical problems, the technical scheme adopted by the utility model is as follows: the steering device for the **three-wheeled scooter** comprises the **three-wheeled scooter**; a front wheel of the **three-wheeled scooter** is a driving wheel; two rear wheels of the **three-wheeled scooter** are driven wheels; and steering handlebars capable of driving the front wheel to twist for 360 degrees are arranged on the front wheel. The steering device disclosed by the utility model is mainly applied to wheelchairs.

Family 4/100 - FAMPAT - ©Questel

Title

(CN202156495U)

Electric **three-wheeled scooter** with adjustable seat**Images**

**Publication data including kind & date**

CN202156495

U

2012-03-07

CN202156495U

**Abstract**

(CN202156495U)

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.

Family 5/100 - FAMPAT - ©Questel

Title

(CN203946226U)

Three-wheeled self-powered **scooter****Images**

**Publication data including kind & date**[CN203946226](#)

U

2014-11-19

CN203946226U

**Abstract**

(CN203946226U)

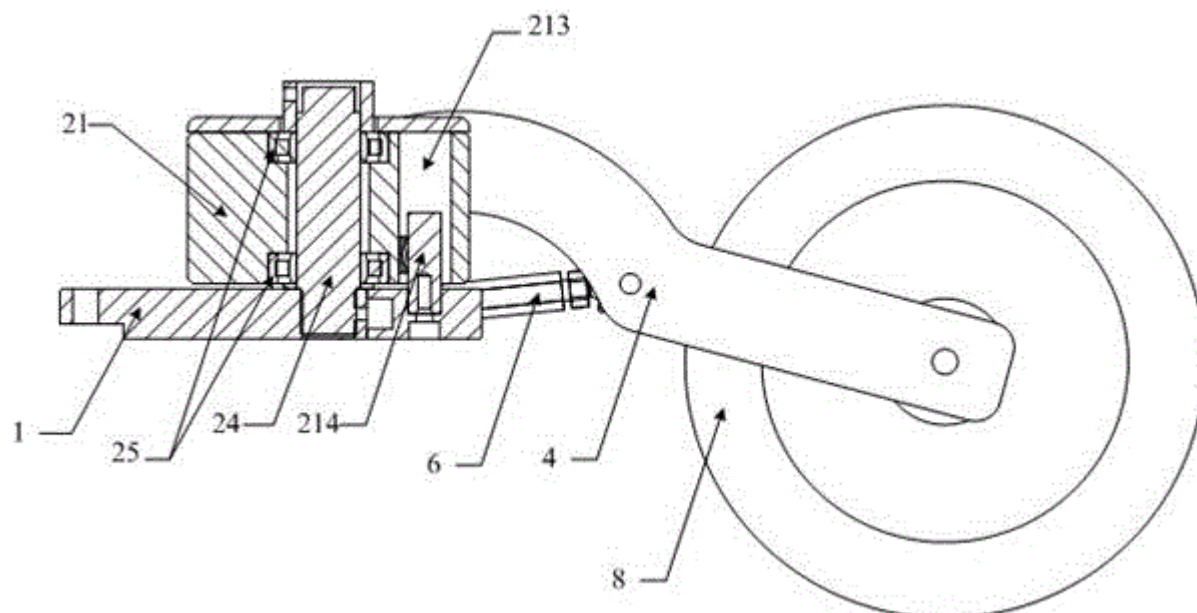
The utility model relates to a **three-wheeled** self-powered **scooter**. The **three-wheeled** self-powered **scooter** is a movement tool, a user stands on the **scooter** with two feet front and back and pedals on a V-type pedal in a vertical reciprocating mode to provide drive force, and then the **scooter** can move forwards continuously. The **three-wheeled** self-powered **scooter** comprises a front steering device, a **scooter** frame, a transmission system, a rear drive assembly and a brake device, wherein the front steering device is in matched connection with a head pipe at the front portion of the **scooter** frame; the two-wheeled differential rear drive device is in matched connection with a rear drive installation frame at the rear portion of the **scooter** frame, the transmission system is matched with the **scooter** frame and the rear drive device, and the brake device is connected with the rear drive device and the **scooter** frame. The **three-wheeled** self-powered **scooter** integrally has high novelty.

Family 6/100 - FAMPAT - ©Questel

Title

(CN105501373)

Rear wheel assembling structure of **three-wheeled scooter****Images**



Publication data including kind & date

CN105501373	A	2016-04-20	CN105501373
CN106741520	A	2017-05-31	CN106741520
CN105501373	B	2017-05-31	CN105501373B
CN106741520	B	2017-11-14	CN106741520B



Abstract

(CN105501373B)

The invention discloses a rear wheel assembling structure of a **three-wheeled scooter**. The rear wheel assembling structure structurally comprises a base plate connecting block, an abrasive disk assembly, a first vehicle wheel bracket, a second vehicle wheel bracket, a first limiting component and a second limiting component, wherein the base plate connecting block is used for connecting rear wheels with a main vehicle frame of the **three-wheeled scooter**; the abrasive disk assembly comprises a rotating disc, a left ear shaft and a right ear shaft, and the left ear shaft and the right ear shaft can drive the rotating disc to rotate and can vibrate upwards and downwards; the first vehicle wheel bracket is used for mounting a first rear wheel; the second vehicle wheel bracket is used for mounting a second rear wheel; the first limiting component is used for limiting the movement of the first vehicle wheel bracket; the second limiting component is used for limiting the movement of the second vehicle wheel bracket; the first rear wheel is fixedly mounted on the first vehicle wheel bracket, the second rear wheel is fixedly mounted on the second vehicle wheel bracket, the first limiting component is arranged between the base plate connecting block and the first vehicle wheel bracket, the second limiting component is arranged between the base plate connecting block and the second vehicle wheel bracket, and the base plate connecting block is further fixedly connected with the main vehicle frame; and the abrasive disk assembly is mounted on the base plate connecting block, the left ear shaft of the abrasive disk assembly is movably connected with the first vehicle wheel bracket, and the right ear shaft of the abrasive disk assembly is movably connected with the second vehicle wheel bracket.

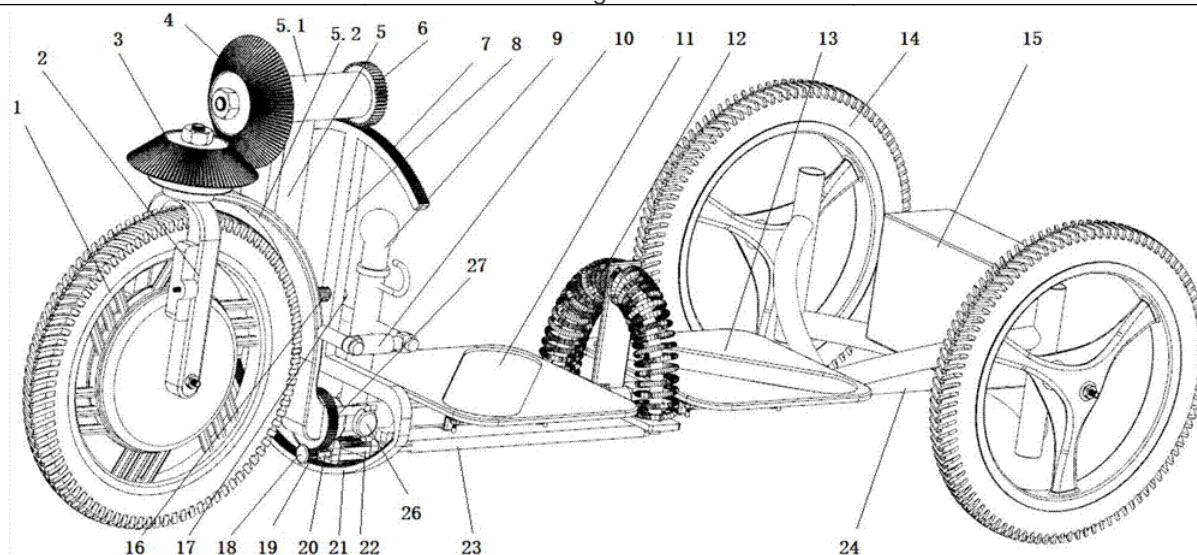
Family 7/100 - FAMPAT - ©Questel

Title

(CN108528592)

Electric **three-wheeled scooter**

Images

**Publication data including kind & date**[CN108528592](#)

A

2018-09-14

CN108528592

**Abstract**

(CN108528592)

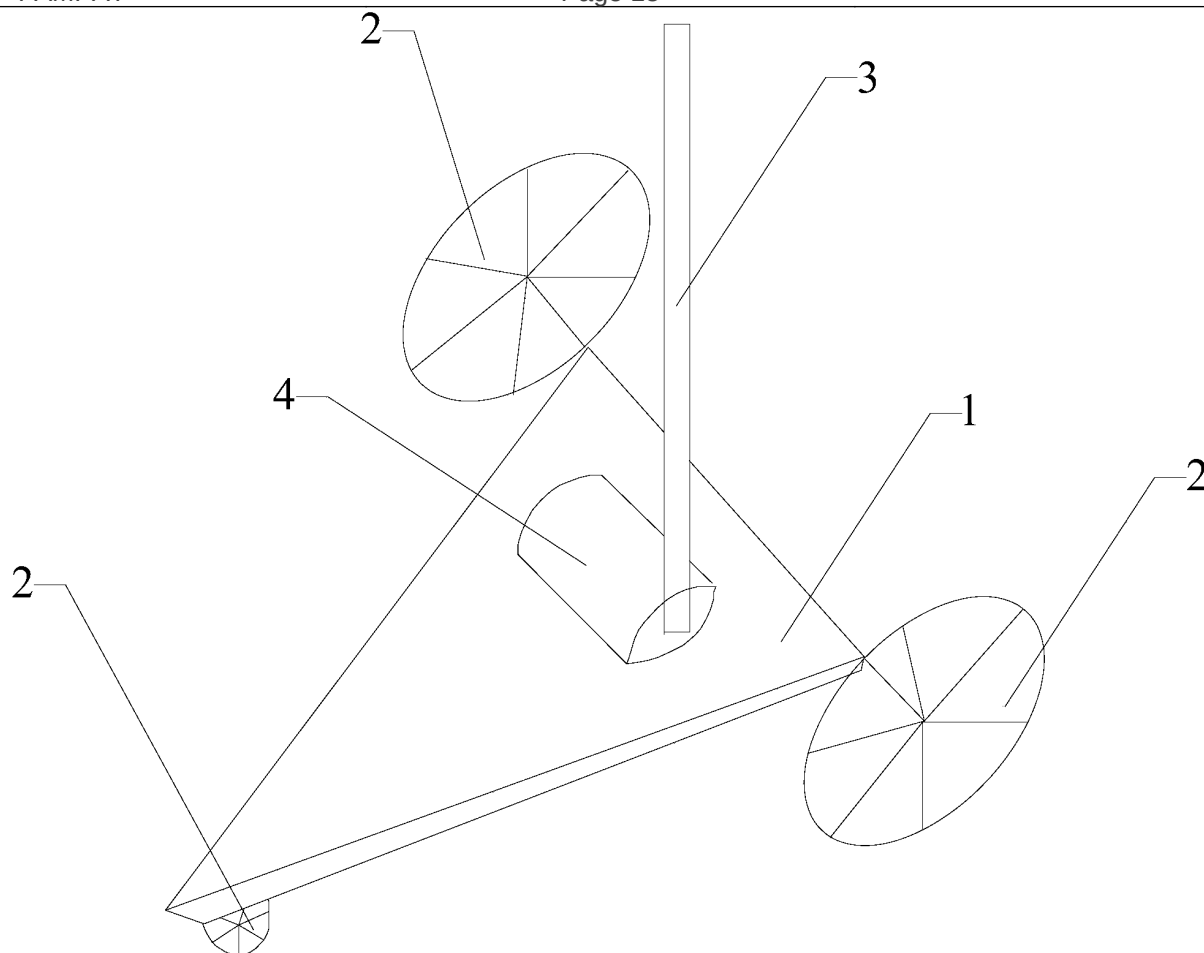
Provided is an electric **three-wheeled scooter**. A mechanical structure of a steering system is novel in design, left-right inclination of a front pedal is utilized to control steering of the **scooter**, turning of the electric **three-wheeled scooter** is prevented, a pressure sensor is embedded into the pedal, a running switch is controlled by treading the pedal with double feet, a small gear in front of a track box can be effectively kept still in situ during left-right swing by adopting the track box structure design at the bottom of the **scooter**, thus rotation of a lower rack is driven, it is ensured that a front wheel frame and a front rod and a rear rod connected with the small gear during rotation of the front wheel frame can be kept on the same straight line, accordingly the relative positions of the small gear and the front wheel frame are kept unchanged, and steering of front wheels of the **scooter** is achieved. The electric **three-wheeled scooter** is simple in whole structure, practical and safe, can be effectively controlled by a user, brings convenience to the user for use and outgoing and has a great practical value.

Family 8/100 - FAMPAT - ©Questel

Title

(CN204452706U)

Self-balancing **three-wheeled** mobility **scooter****Images**

**Publication data including kind & date**

CN204452706

U

2015-07-08

CN204452706U

**Abstract**

(CN204452706U)

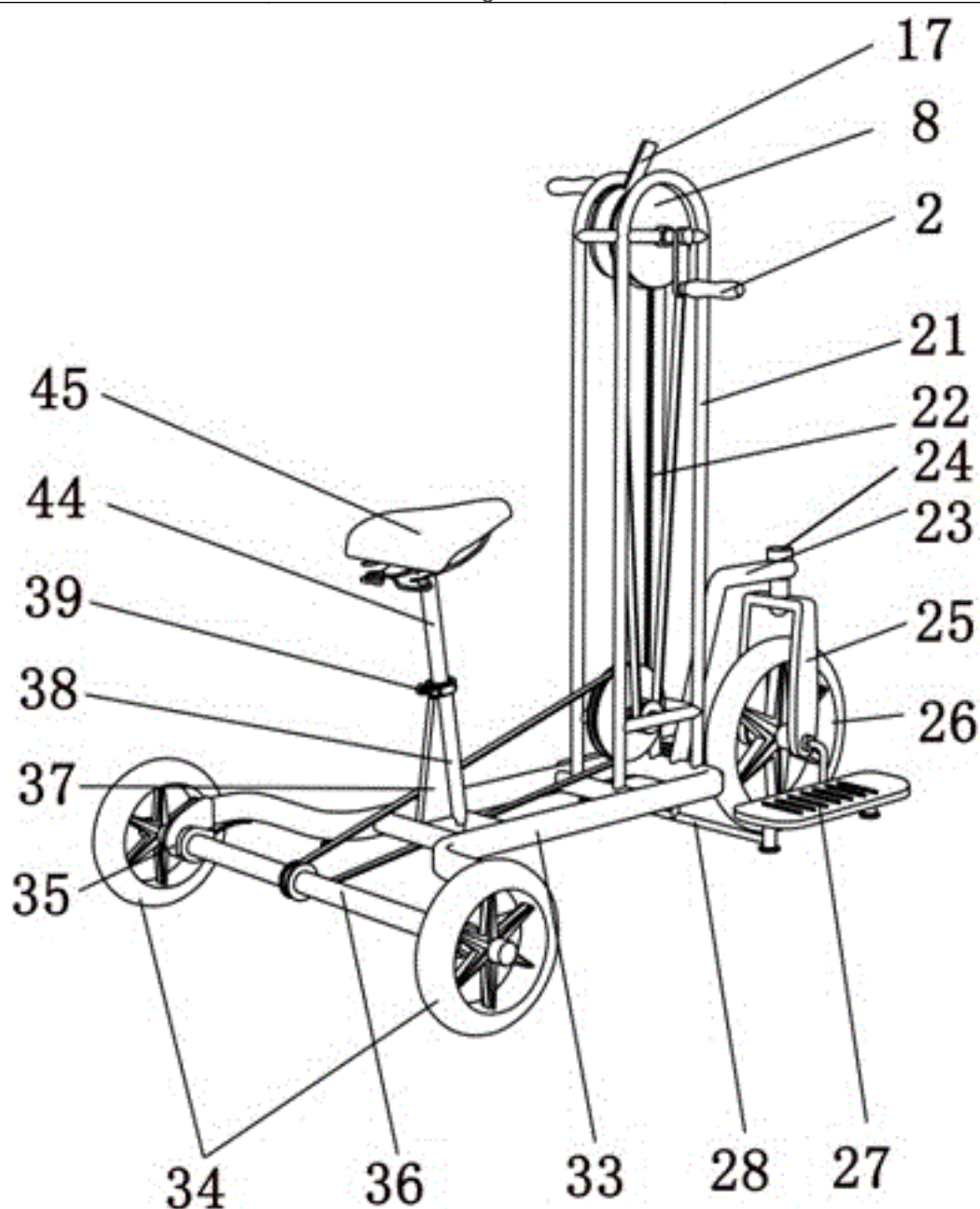
The utility model discloses a self-balancing **three-wheeled** mobility **scooter**. The mobility **scooter** comprises a control device, a mobility **scooter** body and a swing rod, wherein the swing rod is hinged to the mobility **scooter** body, and can swing around a hinge point; three wheels are arranged at the bottom of the mobility **scooter** body, and are in triangular distribution; the control device comprises a single-chip microcomputer control module, a driving module, a power supply module and a potentiometer detection module; the power supply module is in electric connection with the single-chip microcomputer control module, the driving module and the potentiometer detection module respectively; the potentiometer detection module and the driving module are in electric connection with the single-chip microcomputer control module respectively; the potentiometer detection module comprises a potentiometer; a rotary knob of the potentiometer is in physical connection with the hinge part of the swing rod; the driving module is used for driving the wheels to rotate forwards or backwards according to driving signals received. The mobility **scooter** is provided with the three wheels, adopts the potentiometer to detect the swing direction of the swing rod so as to control the moving direction of the mobility **scooter**, and is simple in design and low in cost.

Family 9/100 - FAMPAT - ©Questel

Title

(CN103204217)

Hand-driven and foot-controlled **three-wheeled scooter****Images**



Publication data including kind & date

CN103204217	A	2013-07-17	CN103204217
CN103204217	B	2016-12-28	CN103204217B



Abstract

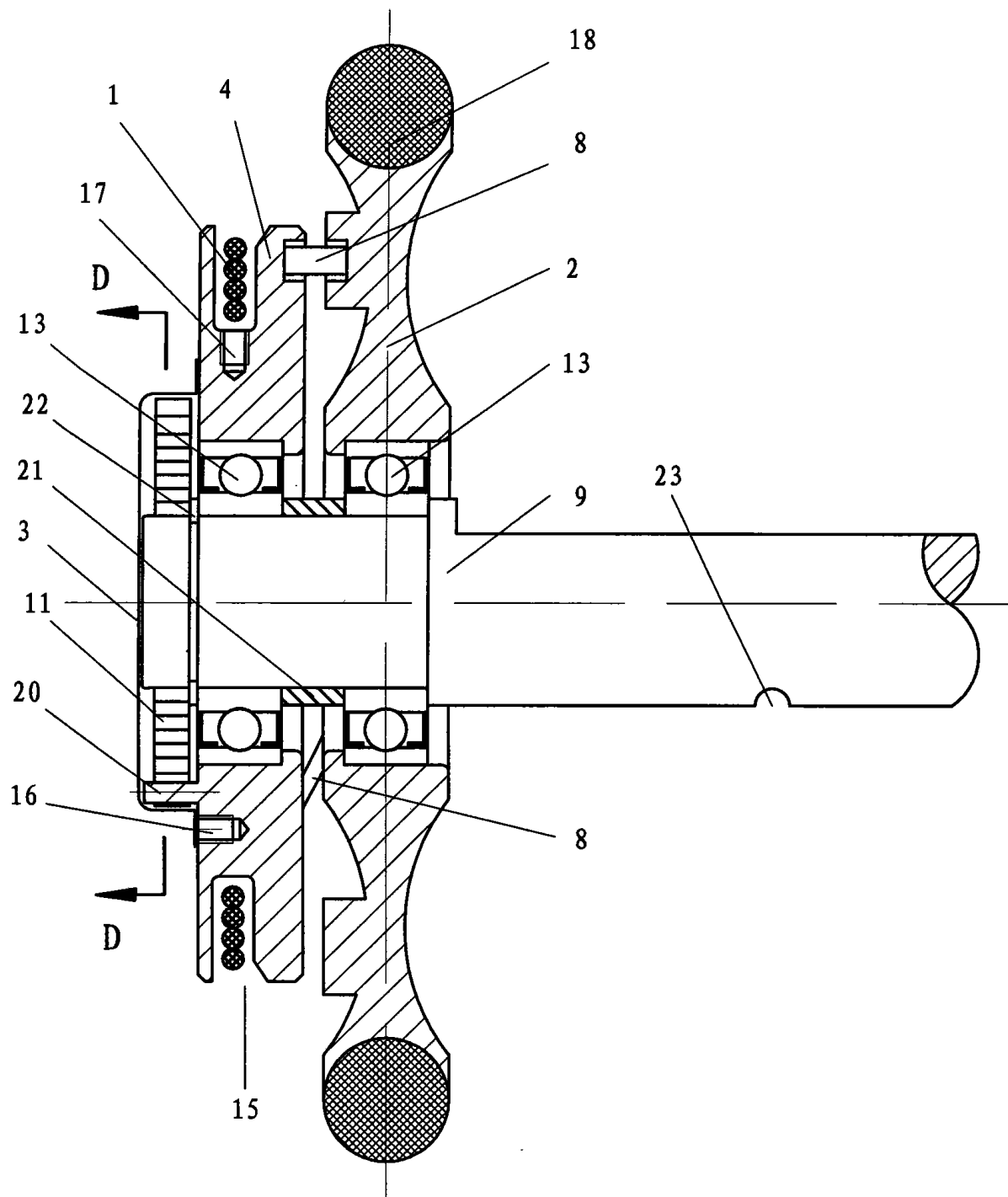
(CN103204217B)

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.

Family 10/100 - FAMPAT - ©Questel

Title

(CN202315244U)

Three-wheeled toy **scooter** with new driving device**Images****Publication data including kind & date**

CN202315244

U

2012-07-11

CN202315244U

**Abstract**

(CN202315244U)

The utility model discloses a **three-wheeled** toy **scooter** with a new driving device. According to the **three-wheeled** toy **scooter**, driving force is provided by the physical strength of arms. The **three-wheeled** toy **scooter** comprises a **scooter** body, wherein a front wheel is fixed to the front end of the **scooter** body, and a main shaft is fastened by a bolt of a hoop at the rear end of the **scooter** body; rear wheels and transmission wheels are arranged at two ends of the main shaft; the inner end of a clockwork spring is fixed to the main shaft, and the outer end of the clockwork spring is fixed to the

transmission wheels; a plurality of circles of nylon ropes are wound in U-shaped grooves of the transmission wheels, three rectangular slots are distributed on the circumference of the transmission wheels uniformly, and three jacks are arranged in the transmission wheels; one end of a sheet spring is arranged on the jacks through spot welding, and the other end of the sheet spring is arranged on the transmission wheels through spot welding; and three arc-shaped grooves are formed on the circumference of the rear wheels. According to the **three-wheeled toy scooter**, the nylon ropes are pulled, the transmission wheels rotate, the jacks slide into the arc-shaped grooves of the rear wheels, the rear wheels rotate, and the clockwork spring is wound up, so that the **three-wheeled scooter** moves ahead; and when pull force is zero, the transmission wheels stop rotating, the deformation of a clockwork of the clockwork spring restores to drive the transmission wheels to rotate reversely, so that the nylon ropes are retracted in the U-shaped grooves. The continuous driving force of the **three-wheeled toy scooter** is provided, and the speed is stable, so the **three-wheeled toy scooter** is suitable for the entertainment and exercise of youngsters.

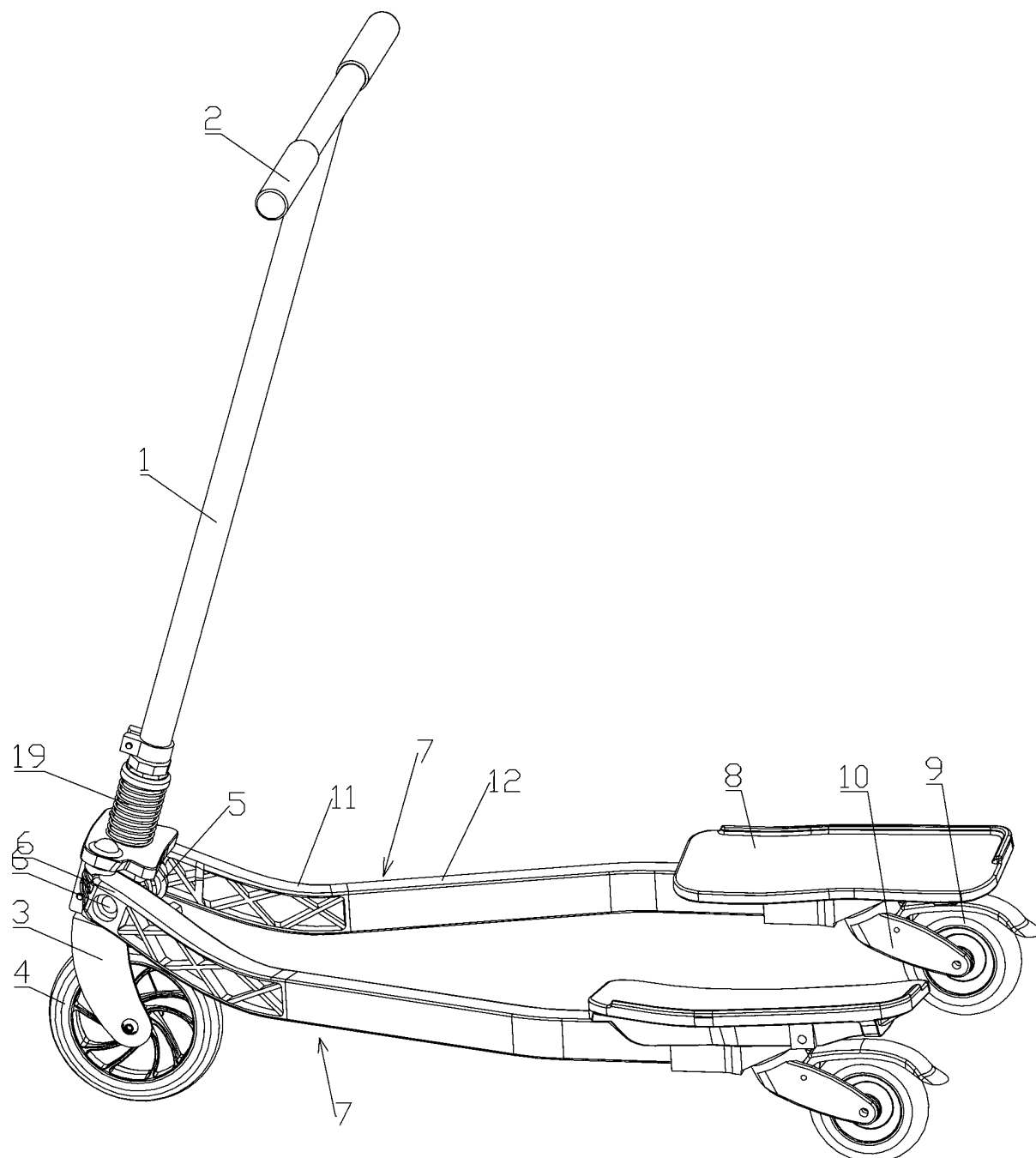
Family 11/100 - FAMPAT - ©Questel

Title

(CN202593746U)

Three-wheeled scooter

Images



Publication data including kind & date

CN202593746

U 2012-12-12

CN202593746U

**Abstract**

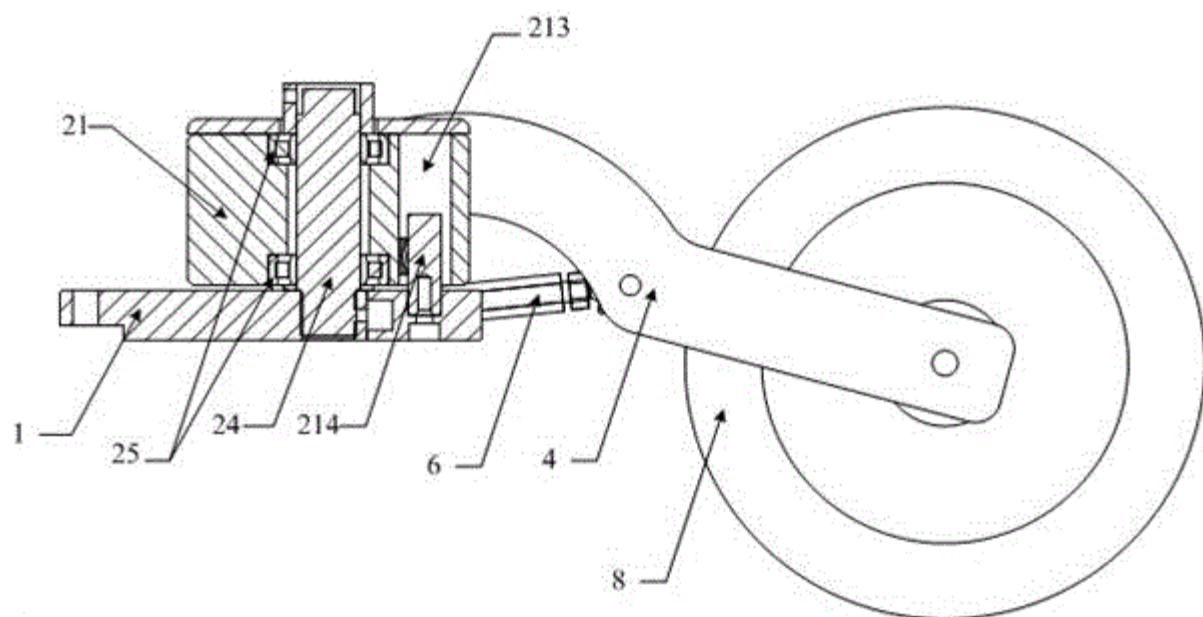
(CN202593746U)

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.

Family 12/100 - FAMPAT - ©Questel

Title

(CN205524683U)

Three -wheeled **scooter** rear wheel assembly?structure**Images****Publication data including kind & date**

CN205524683

U 2016-08-31

CN205524683U

**Abstract**

(CN205524683U)

The utility model discloses a three -wheeled **scooter** rear wheel assembly?structure, this structure includes: a mill subassembly for inciting somebody to action rear wheel and three -wheeled **scooter**'s main connected to the frame's bottom plate connecting block, but have carousel, left gudgeon and auris dextra axle and left and right gudgeon drive?turntable is rotatory and left and right gudgeon can vibrate from top to bottom for install the first wheel support of first rear wheel, be used for installing the second wheel support of second rear wheel, be used for restricting the first locating part of first wheel support activity, and be used for restricting the second locating part of second wheel support activity, wherein, first rear wheel fixed mounting is on first wheel support, second rear wheel fixed mounting is on second wheel support, first locating part is located between bottom plate connecting block and the first wheel support, the second locating part is located between bottom plate connecting block and the second wheel support, the bottom plate connecting block still with main frame fixed connection, the mill unit mount is on the bottom plate connecting block, and the left gudgeon of

mill subassembly and first wheel supports?active?connections, the auris dextra axle and the second wheel supports?active?connections of mill subassembly.

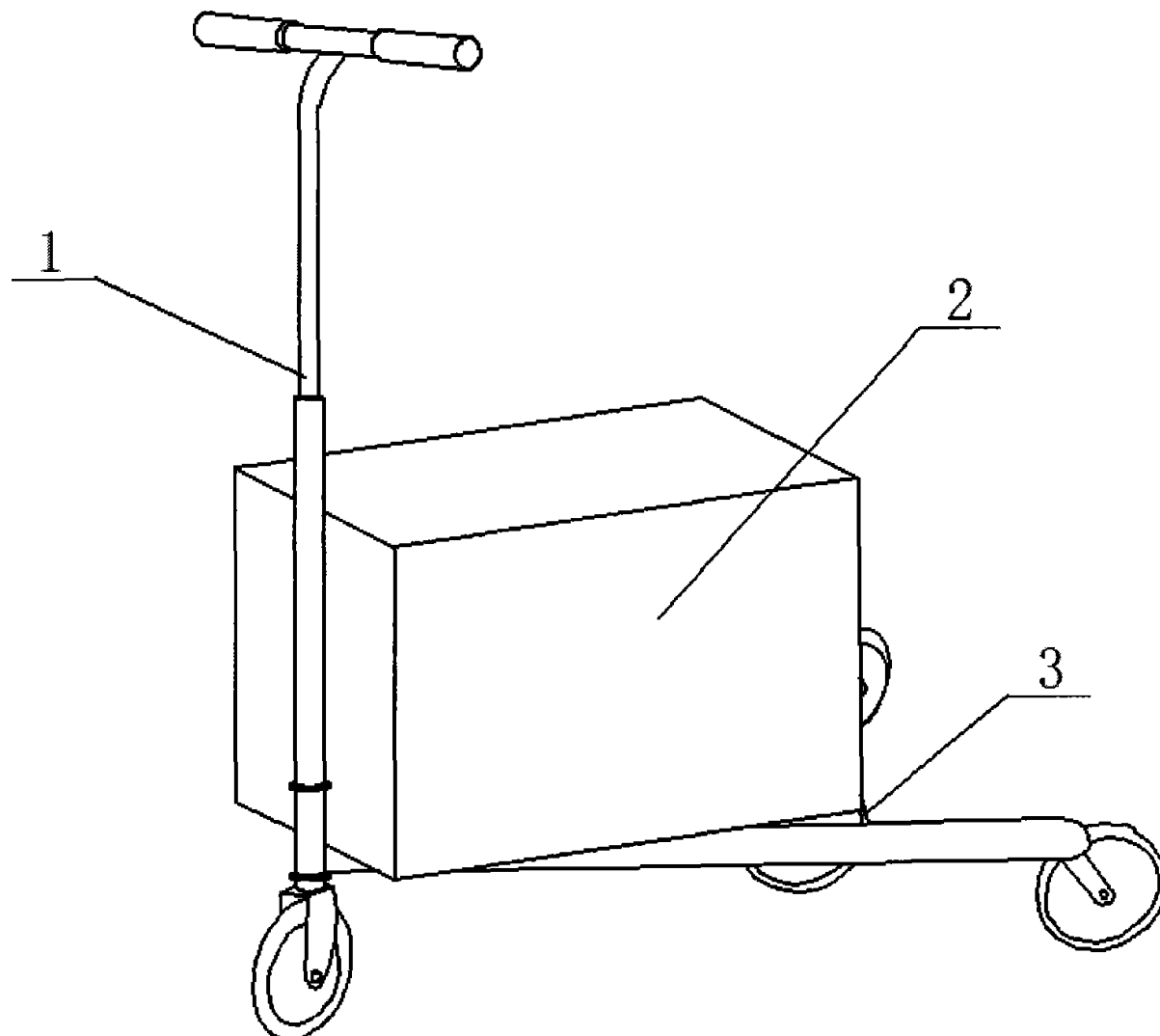
Family 13/100 - FAMPAT - ©Questel

Title

(CN202541714U)

Three-wheeled scooter luggage

Images



Publication data including kind & date

CN202541714

U

2012-11-21

CN202541714U



Abstract

(CN202541714U)

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 dismounted as well, and is used by people for daily recreation and exercise.

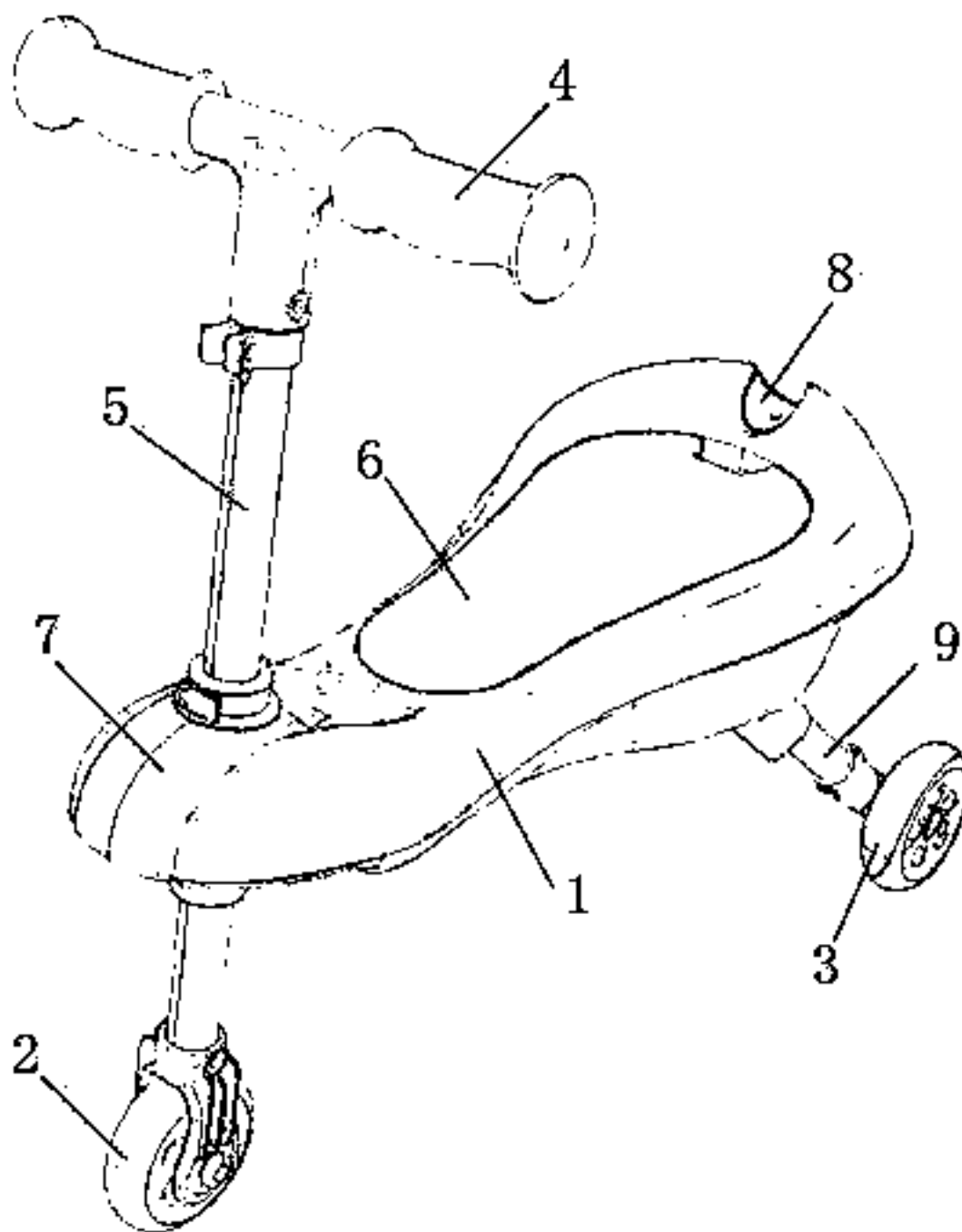
Family 14/100 - FAMPAT - ©Questel

Title

(CN205059859U)

Convertible type three -wheeled scooter

Images



Publication data including kind & date

[CN205059859](#)

U

2016-03-02

CN205059859U



Abstract

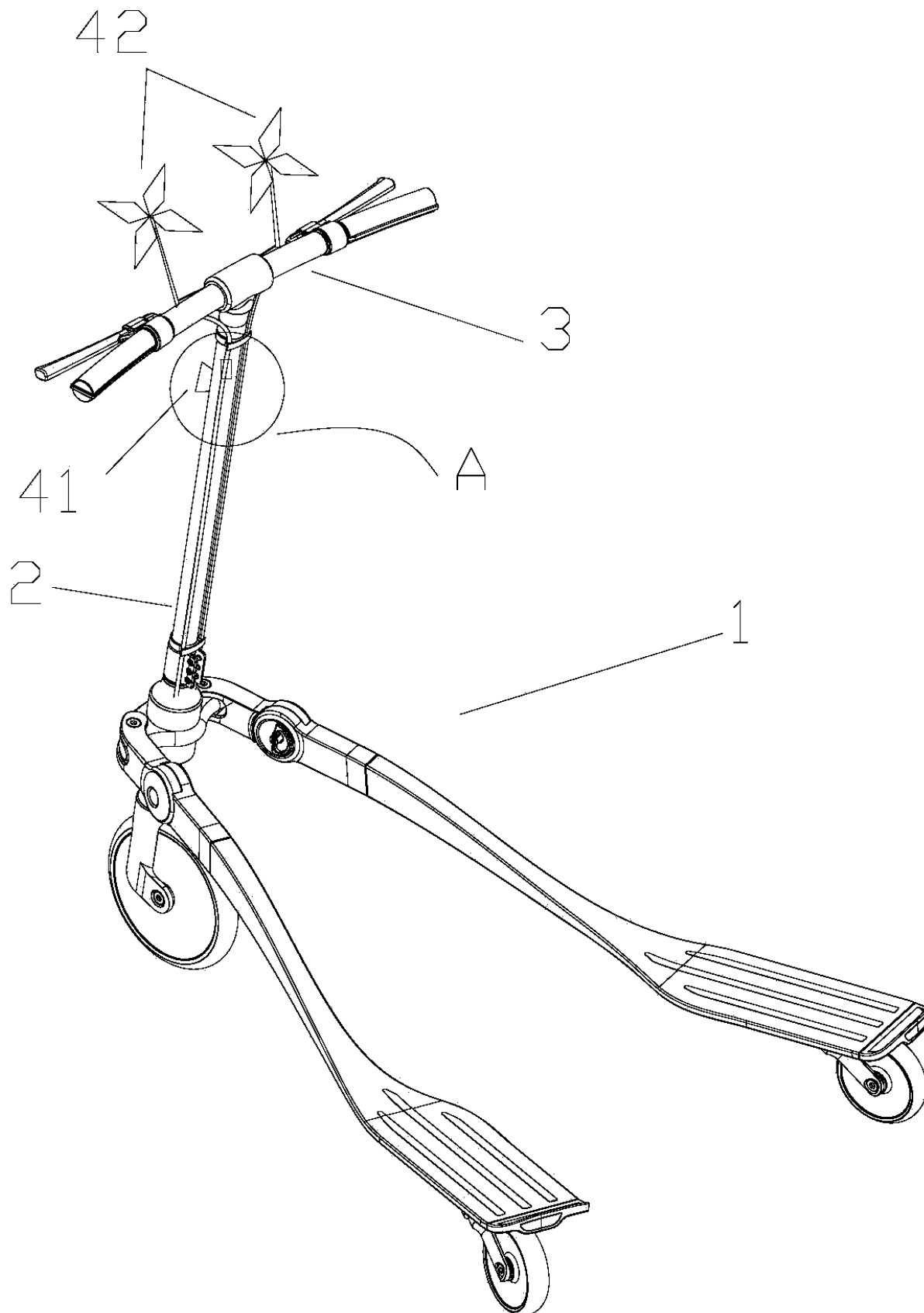
(CN205059859U)

The utility model provides a convertible type three -wheeled **scooter**, including base, front wheel, two rear wheels, handlebar hand and telescopic links, telescopic link one end and handlebar hand fixed connection, the other end and front wheel fixed connection, the front end of base is provided with a rotatable portion, rotatable portion can be relative the base rotates, the fixed cover in middle part of telescopic link is established in the rotatable portion, the rear wheel pass through rear wheel branch with the base is connected, rear wheel branch for the mobile rotation of base. The beneficial effects are that: the utility model provides a convertible type three -wheeled **scooter** to less children of age, can regard as the sitting posture tricycle to use, can regard as stand -type **scooter** to use to older children. To the user, according to the growth of its age and height, the utility model discloses uninterruptedly carries out the adaptability adjustment in succession, has application range extensively, convenient to carry's advantage.

Family 15/100 - FAMPAT - ©Questel

Title

(CN203581208U)

Novel **three-wheeled scooter****Images**

Publication data including kind & date

[CN203581208](#)

U

2014-05-07

CN203581208U



Abstract

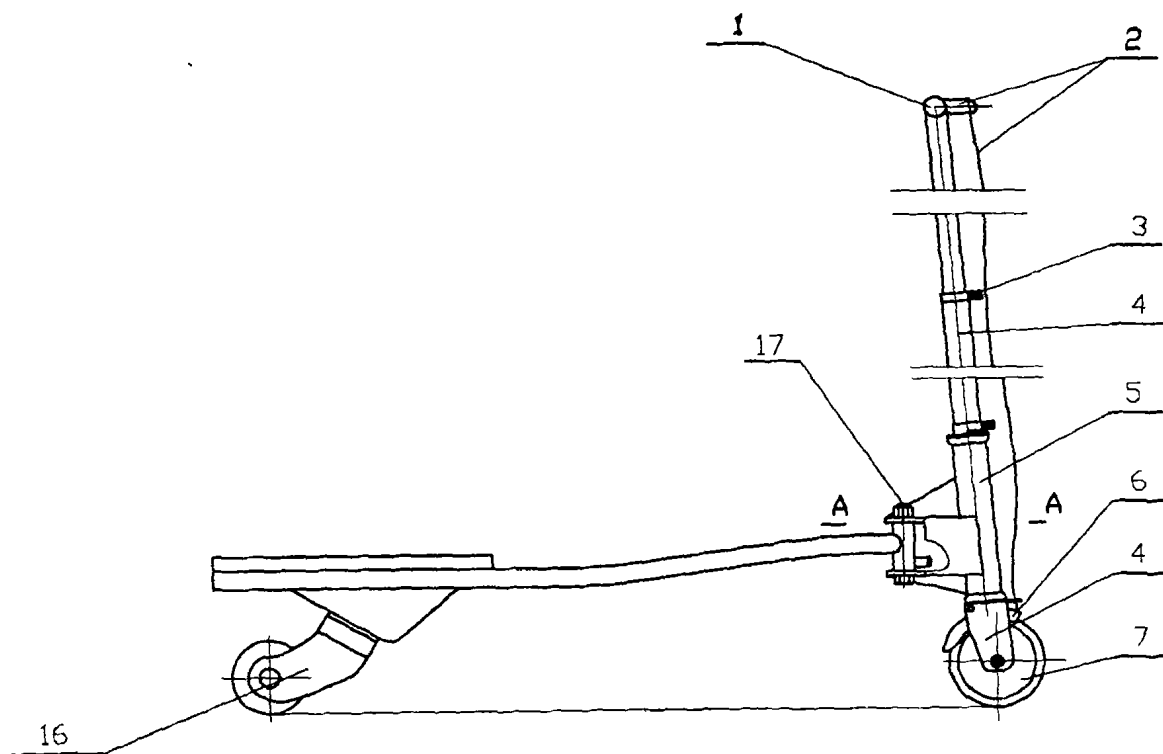
(CN203581208U)

The utility model relates to a novel **three-wheeled scooter** which solves the problems that a traditional **scooter** can not be used at night, or in low light environment. The novel **three-wheeled scooter** comprises a **scooter** body, wherein handle stems, a front pipe and pedals are arranged on the **scooter** body, the handle stems are fixed at the upper part of the front pipe, a wind power generation lighting device is further arranged on the **scooter** body, the wind power generation lighting device comprises a windmill, a generator, a storage battery and a lamp, the windmill is connected with the generator through a bearing, the generator is connected with the storage battery through a conducting wire, the storage battery is connected with the lamp through a conducting wire, the windmill is fixed on the handle stems, the generator and the storage battery are fixed inside the front pipe, and the lamp is fixed on the front pipe. After the application of the technology, the **scooter** can be used in various environments, and the application scope of the **scooter** is expanded.

Family 16/100 - FAMPAT - ©Questel

Title

(CN201834141U)

Open and closed type **three-wheeled scooter** with toothed plate limiting**Images****Publication data including kind & date**

CN201834141

U

2011-05-18

CN201834141U

**Abstract**

(CN201834141U)

The utility model relates to an open and closed type **three-wheeled scooter** with toothed plate limiting. The **three-wheeled scooter** adopts the structure that a front wheel carrier is installed on a **scooter** frame; a front wheel is installed below the front wheel carrier; a left toothed plate is fixedly installed on a left hinged shaft rotationally connected to the front end of a left **scooter** beam; a right toothed plate is fixedly installed on a right hinged shaft rotationally connected to the front end of a right **scooter** beam; and the left toothed plate is meshed with the right toothed plate. The **three-wheeled scooter** solves the defects in the conventional **three-wheeled scooter** that the direction of is not stable and is difficult to master during static and sliding processes due to the fact that a **scooter** frame is not provided with a limiting device. The **three-wheeled scooter** has the advantages that the structure is simple; the direction is stable; the **three-wheeled scooter** is safe to ride; and the cost is low.

electric vehicle includes a battery and a charger. The swing arm device for an electric two- or **three-wheeled** vehicle to be fitted on an electric vehicle includes a swing arm (30) one end of which is coupled to a swing shaft and the other end of which supports a rear wheel (WR), an electric motor (M) placed at the other end side of the swing arm (30) and for driving the rear wheel (WR), and a battery (56) for supplying electric power to the electric motor (M), and a charger (200) for charging the battery (56) is incorporated in the swing arm (30).

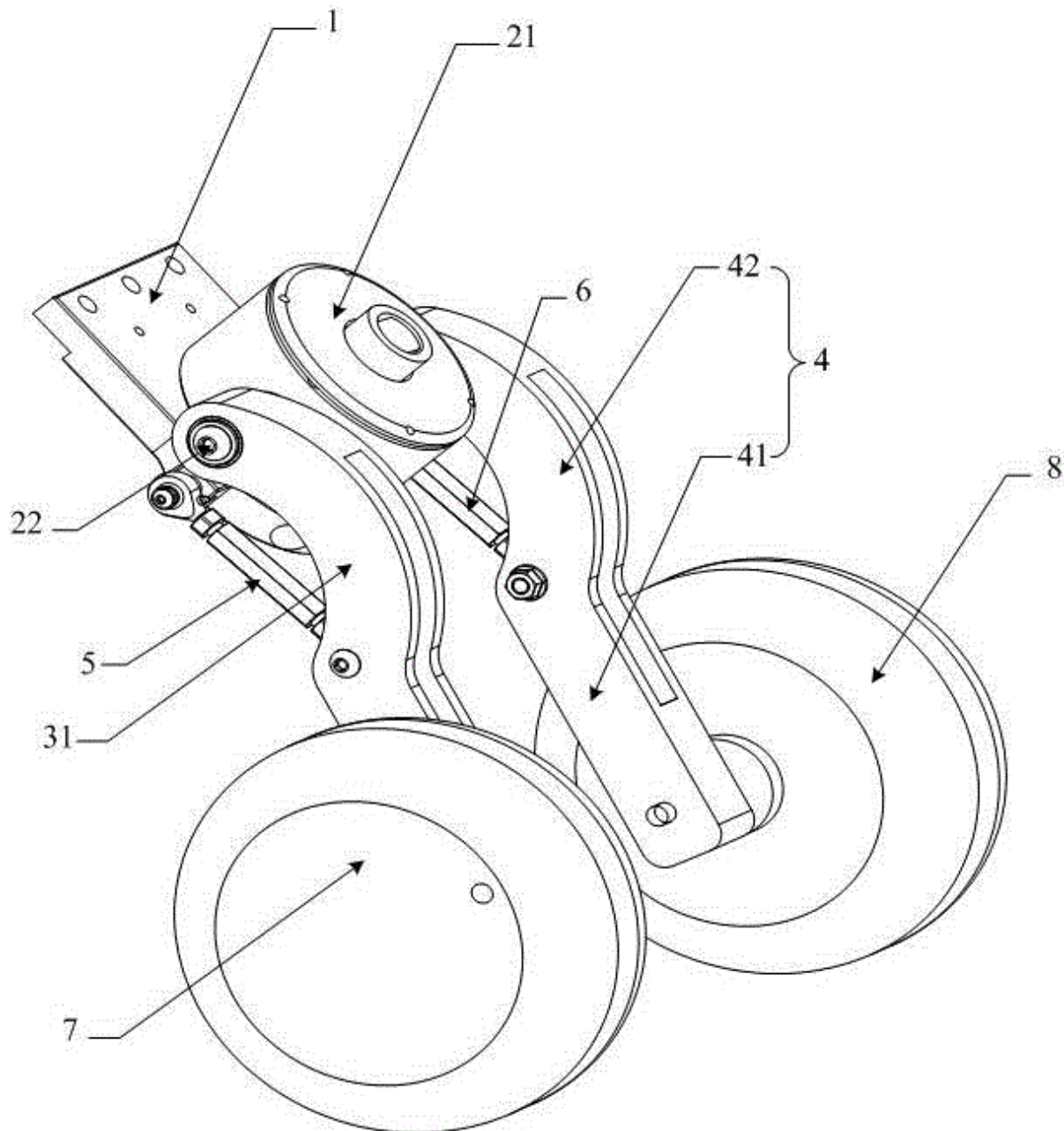
Family 18/100 - FAMPAT - ©Questel

Title

(CN205524684U)

Three -wheeled **scooter** rear wheel is from balance mechanism

Images



Publication data including kind & date

[CN205524684](#)

U 2016-08-31 CN205524684U



Abstract

(CN205524684U)

The utility model discloses a three -wheeled **scooter** rear wheel is from balance mechanism, this mechanism includes: a mill subassembly for inciting somebody to action rear wheel and three -wheeled **scooter**'s main connected to the frame's bottom plate connecting block, have main part, left gudgeon and auris dextra axle and left and right gudgeon relatively the

main part vibrate about and in the same direction as, counter -clockwise turning for install the first wheel support of first rear wheel, be used for installing the second wheel support of second rear wheel, be used for restricting the first locating part of first wheel support activity, and be used for restricting the second locating part of second wheel support activity, wherein, first rear wheel fixed mounting is on first wheel support, second rear wheel fixed mounting is on second wheel support, first locating part is located between bottom plate connecting block and the first wheel support, the second locating part is located between bottom plate connecting block and the second wheel support, the bottom plate connecting block still with main frame fixed connection, mill subassembly fixed mounting is on the bottom plate connecting block, the left gudgeon and the first wheel supports?active?connections of mill subassembly, the auris dextra axle and the second wheel supports?active?connections of mill subassembly.

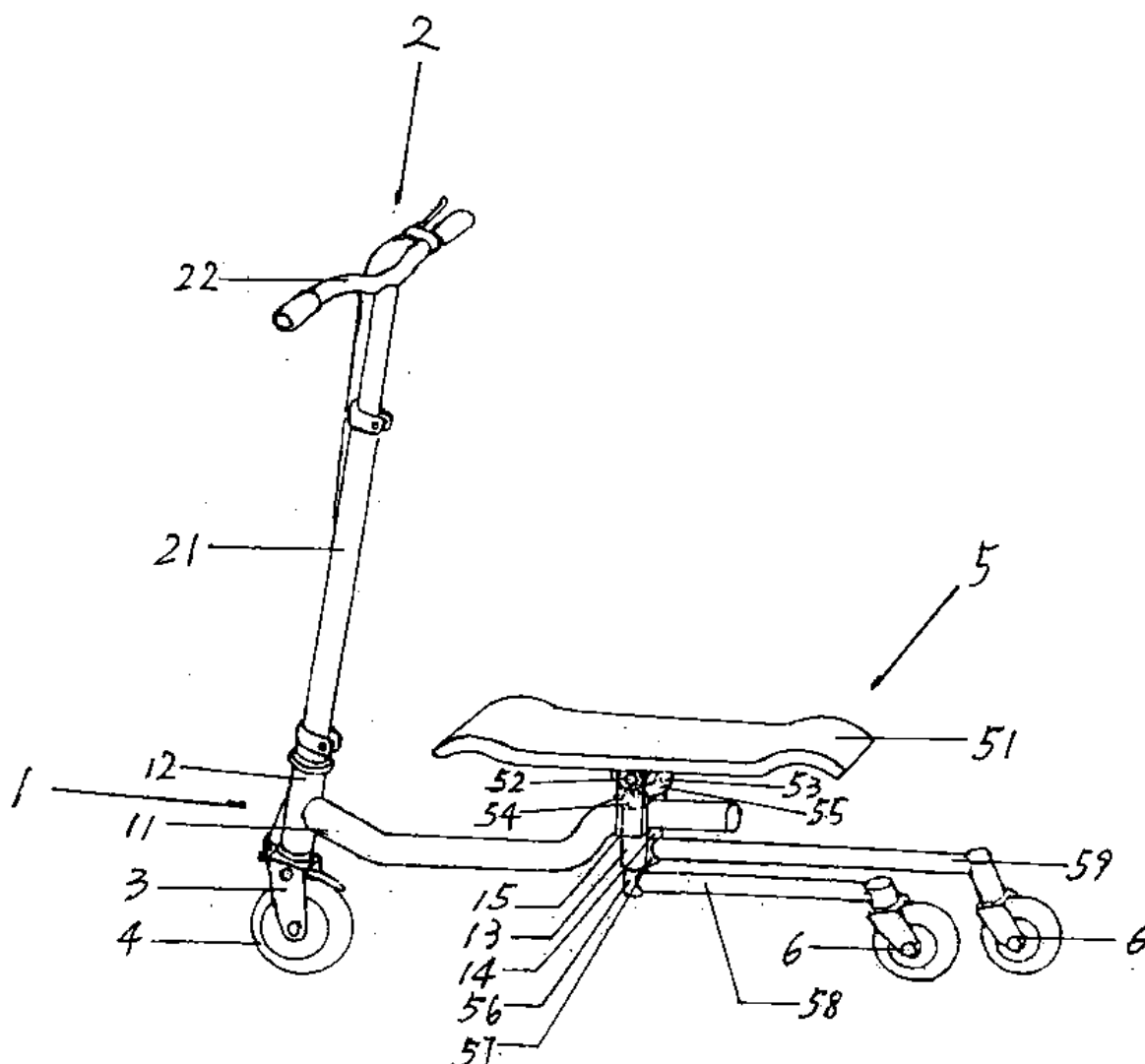
Family 19/100 - FAMPAT - ©Questel

Title

(CN102285416B)

Seesaw double-swinging **three-wheeled scooter**

Images



Publication data including kind & date

CN102285416	A	2011-12-21	CN102285416
CN102285416	B	2013-03-13	CN102285416B



Abstract

(CN102285416B)

The invention relates to a seesaw double-swinging **three-wheeled scooter** which comprises a frame, a handlebar, a front fork, a driving mechanism and universal wheels, wherein a front head tube is connected to the front end of a beam frame of

the frame; a left shaft tube and a right shaft tube are connected to the two sides of the rear part of the beam frame; the left shaft tube is connected to a left slotware; the right shaft tube is connected to a right slotware; the front fork is connected to the front head tube; a front wheel is mounted on the front fork; the handlebar is connected to the front fork; and the structure of the driving mechanism is as follows: two shaft bases and a front-stage sector gear are connected to the bottom of a seesaw; a cross shaft passes through the shaft bases; the upper parts of the left slotware and the right slotware are connected to the two ends of the cross shaft; a left shaft is jointed in the left shaft tube; a right shaft is jointed in the right shaft tube; the top of the left shaft is connected to a left rear-stage sector gear; the top of the right shaft is connected to a right rear-stage sector gear; the left rear-stage sector gear and the right rear-stage sector gear are both engaged with the front-stage sector gear; the bottom of the left shaft is connected to a left swinging rod; the bottom of the right shaft is connected to a right swinging rod; and the lower parts at the tail ends of the left swinging rod and the right swinging rod are respectively connected to the universal wheels.

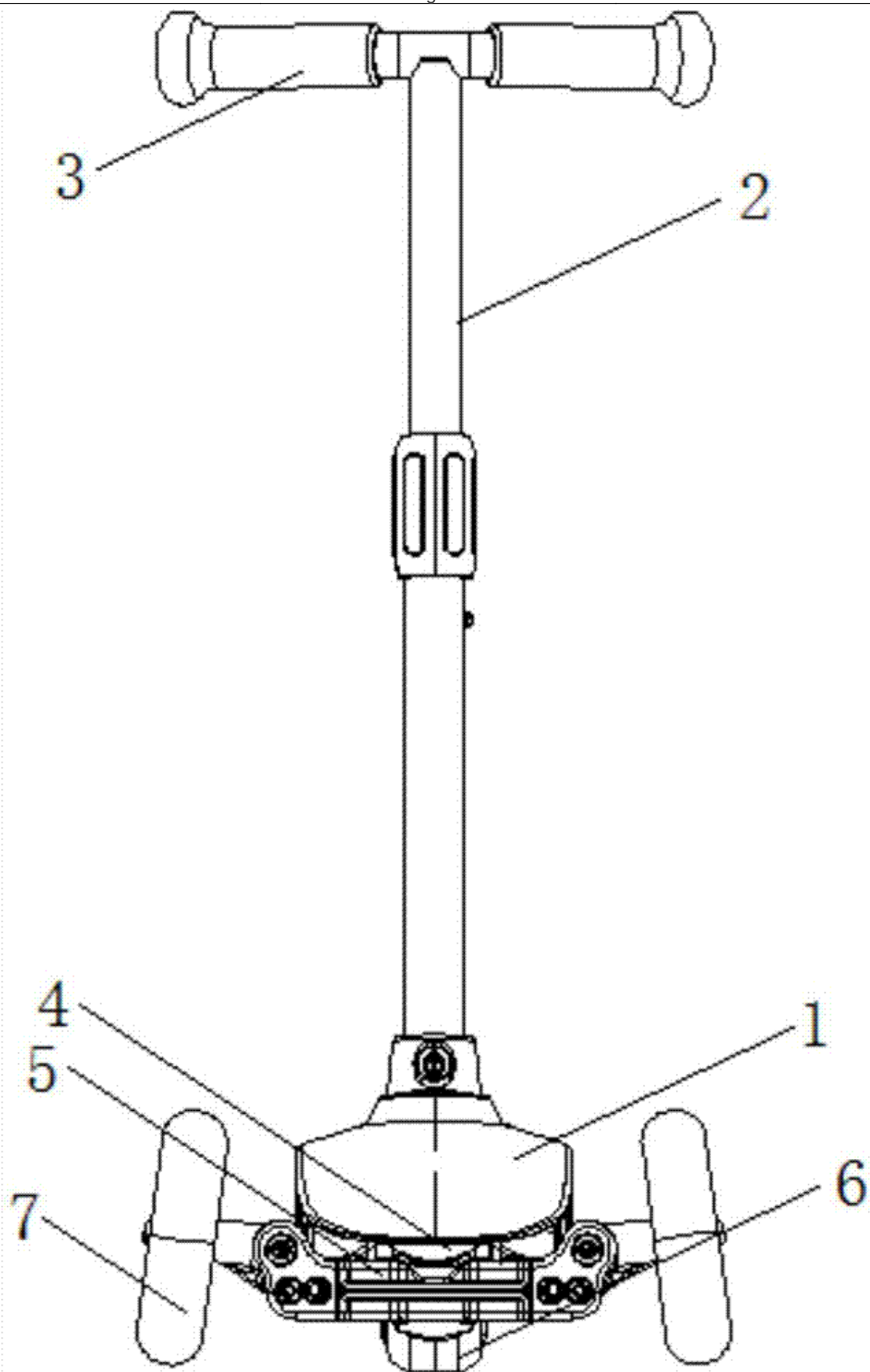
Family 20/100 - FAMPAT - ©Questel

Title

(CN206856882U)

Three -wheeled scooter

Images



Publication data including kind & date

[CN206856882](#)

U

2018-01-09

CN206856882U



Abstract

(CN206856882U)

The utility model discloses a three-wheeled **scooter**, the weight scale comprises a pedal, be equipped with the stand in the axle bed of the upper surface front end of footboard, the upper end of stand is fixed with the handle, the chassis of fixing with the stand lower extreme is installed to the downside of footboard, the rear end lower surface of footboard has the rear wheel through the support mounting, fixed surface has the fore carriage under the front end of chassis, this three-wheeled **scooter**, moreover, the steam generator is simple in structure, it transfers knothole to be equipped with first accent knothole and second on the end plate, first fixed orifices and second fixed orifices correspond all the time, when first accent knothole transfers knothole to correspond two different thirds accent knothole respectively with the second, the change of angle will take place for support piece for the mount, then two front wheels are "eight" style of calligraphy of different angles, the stability of the automobile body is improved, children slide and turn round in be difficult for falling down, multiple angle is fit for the children of different age brackets and weight, the earphone base has a stable structure, long service lifetime.

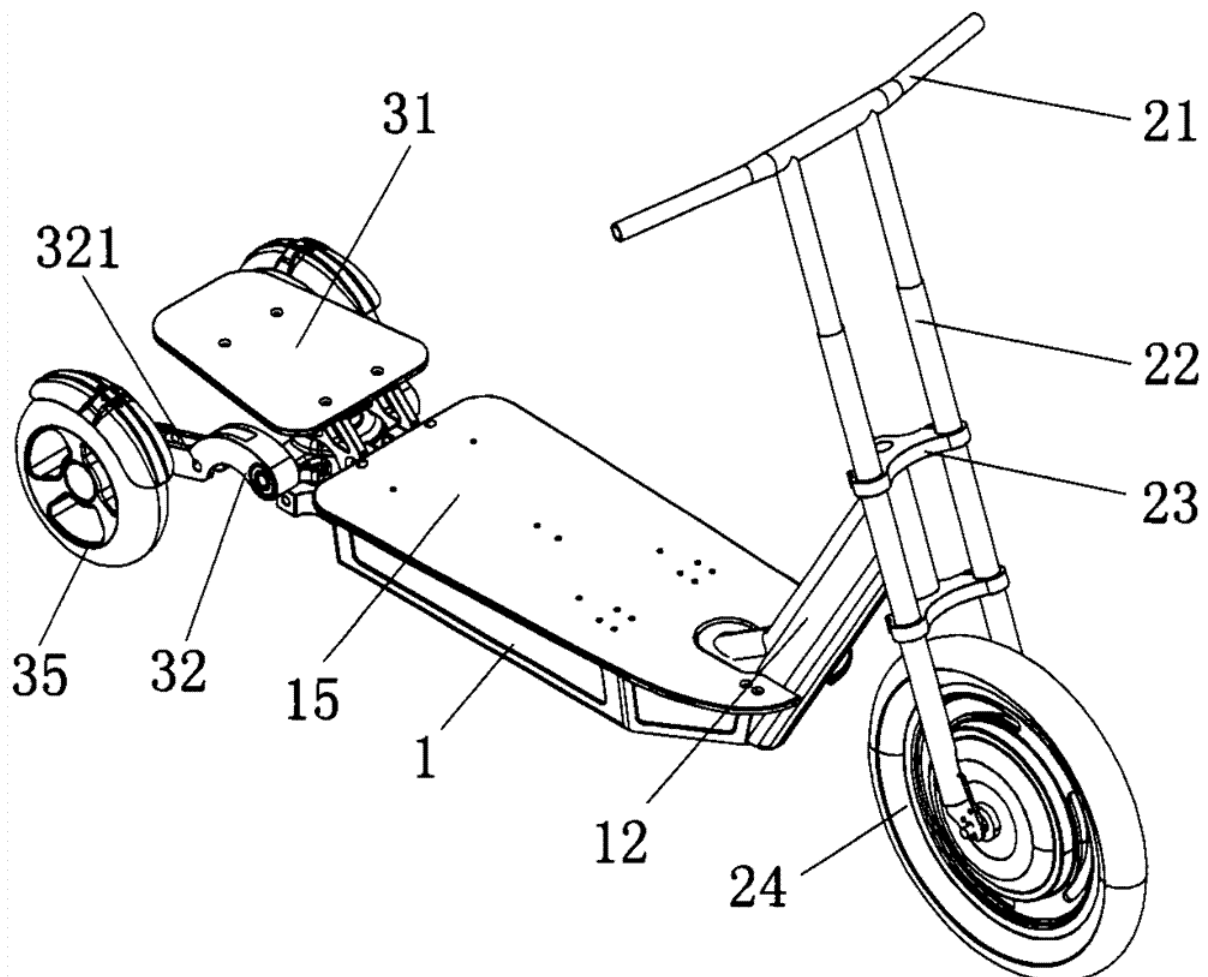
Family 21/100 - FAMPAT - ©Questel

Title

(CN206476000U)

Be adapted to electronic three -wheeled scooter of many topography

Images



Publication data including kind & date

CN206476000

U 2017-09-08 CN206476000U



Abstract

(CN206476000U)

The utility model discloses a be adapted to electronic three -wheeled **scooter** of many topography, including the frame, turning to device and stabilising arrangement, connected to the frame turns to device and stabilising arrangement, and the linking arm is connected with the pneumatic pump through the connecting hole, this be adapted to electronic three -wheeled **scooter** of many topography, be applicable to police patrol, medical rescue, the road rescue, preceding wheel is by motor drive, the power supply module in the internal side of ship shell is laid through the wire connection to the motor,

the footboard can be rotatory along one end, the last standard thread connecting hole of having seted up of shelf plate, shelf plate is last can put the storing box, when being used for the security protection perhaps to rescue, shelf plate is last can to lay multifunctional box, it is very convenient to install, strong versatility, rotatable body has keep balance's effect, connect through the bearing between rotatable body and linking arm, when the road surface height appears not not at ordinary times, the high difference of two rear wheels, but the effect through pneumatic pump and linking arm, the automobile body can not emptyd, can be 60 degrees by inclination.

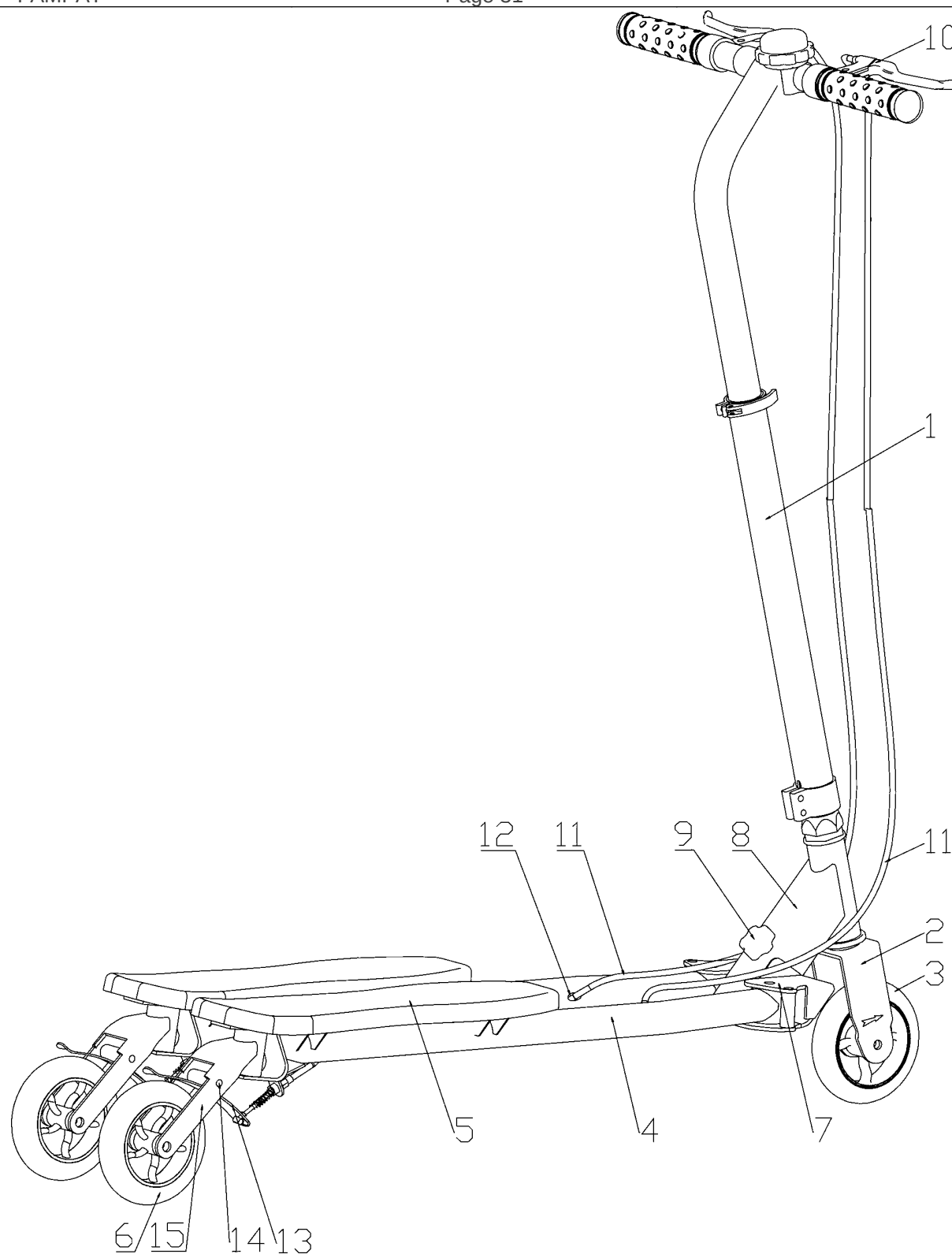
Family 22/100 - FAMPAT - ©Questel

Title

(CN202657178U)

Three-wheeled scooter

Images

**Publication data including kind & date**

CN202657178

U 2013-01-09 CN202657178U

**Abstract**

(CN202657178U)

The utility model discloses a **three-wheeled scooter**, wherein a front fork is installed on the lower portion of a handle bar stem, a front wheel is located on the front fork, footboards and rear wheels are installed on the rear end of a connecting rod, the footboards are hinged on a folding frame through the connecting rod, one end of a folding rod is connected with the front fork, the other end of the folding rod is hinged with the folding frame, a folding rod installation part is installed on the folding frame, a locking screw is installed on the folding rod, and the folding rod installation part is provided with a screw hole corresponding with the screw. The **scooter** is provided with a braking device. The **three-wheeled scooter** is characterized in that the braking device comprises a brake crank, wherein braking lines are connected with the brake

crank, the front end and the rear end of the connecting rod are respectively provided with openings used for the braking lines passing in and out, the rear end of the braking lines are connected with brake blocks which are fixed on rear wheels frames through spindles, and the brake blocks can turn along the spindles. Because the front end and the rear end of the connecting rod are respectively provided with openings used for the braking lines passing in and out, part of the braking lines are enabled to be hidden in the connecting rod, and thus the effect on the braking lines during the use process can be reduced. Brake blocks are fixed on rear wheels frames through the spindles, and the brake blocks can turn along the spindles. Therefore when braking is needed, the braking lines can be pulled to enable the brake blocks to turn along the spindles and thus braking can be achieved.

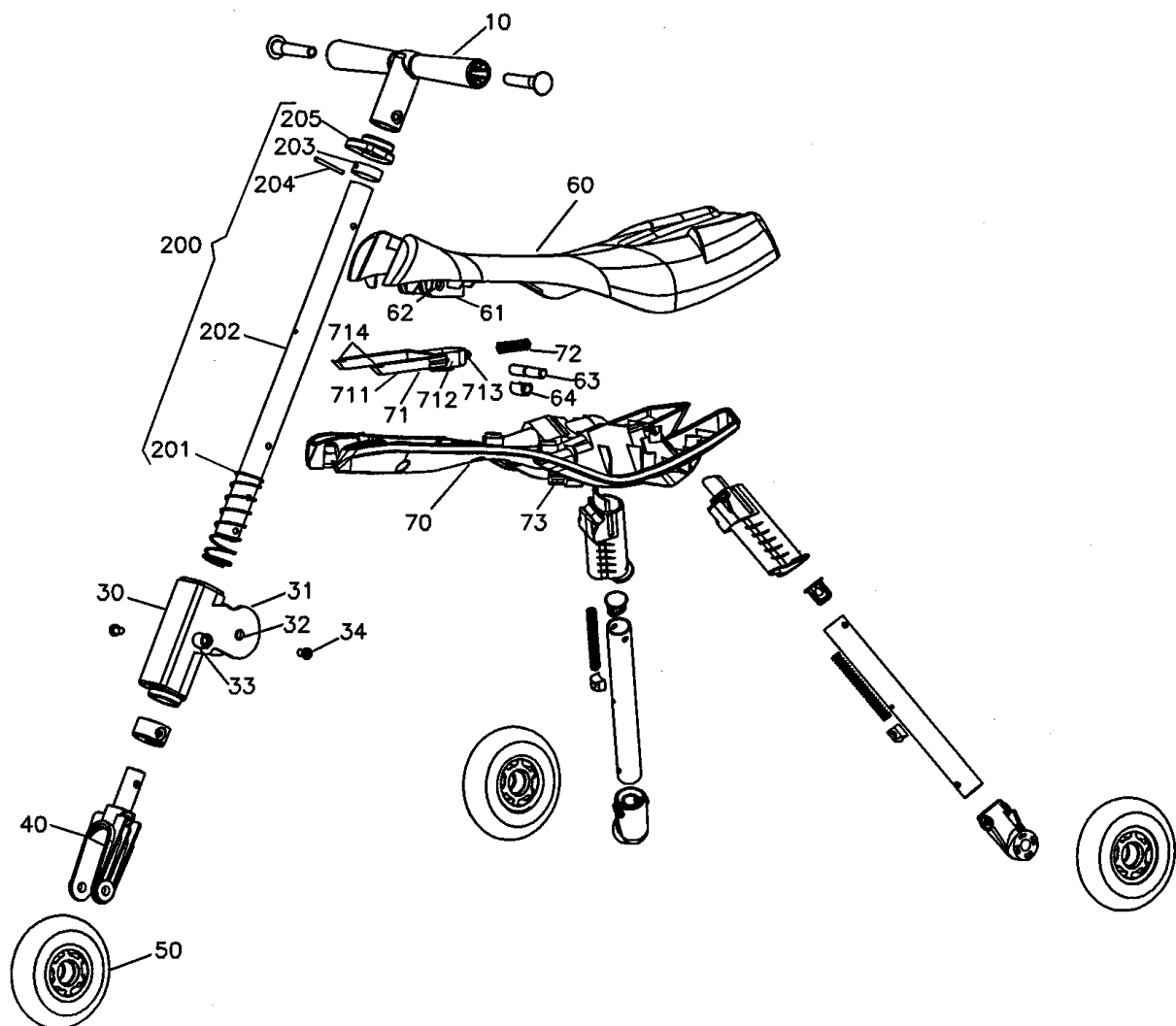
Family 23/100 - FAMPAT - ©Questel

Title

(CN202186467U)

Forefoot folding structure for **three-wheeled scooter**

Images



Publication data including kind & date

[CN202186467](#)

U 2012-04-11 CN202186467U



Abstract

(CN202186467U)

The utility model discloses a forefoot folding structure for a **three-wheeled scooter**, which comprises a forefoot structure and a framework, wherein the forefoot structure comprises a handle, a forefoot pipe component, a plastic forefoot rotating shaft, a front fork and a front wheel; and the framework comprises an upper cover and a lower cover. The forefoot folding structure adopts the improvement that a steering connection plate is integrally formed on the plastic forefoot rotating shaft; a bearing part is arranged in the upper cover; shaft holes are formed on the steering connection plate and the bearing part

respectively; the steering connection plate and the bearing part are in rotational connection with each other through a rotating shaft; a positioning groove is formed in the lower cover; a double-lock draw knob is mounted in the positioning groove, and comprises a U-shaped bracket and a draw knob part integrally formed with the U-shaped bracket; a groove is formed on the draw knob part; a short rod is connected to the rear end of the draw knob part; a spring is inserted at the other end of the short rod; and a small round pillar is arranged on the plastic forefoot rotating shaft. The utility model has the advantage that the folding function is realized, so as to reduce production cost and transportation cost, save storage space and provide convenience for carrying.

Family 24/100 - FAMPAT - ©Questel

Title

(CN201472550U)

Pedal type **three-wheeled scooter**

Images

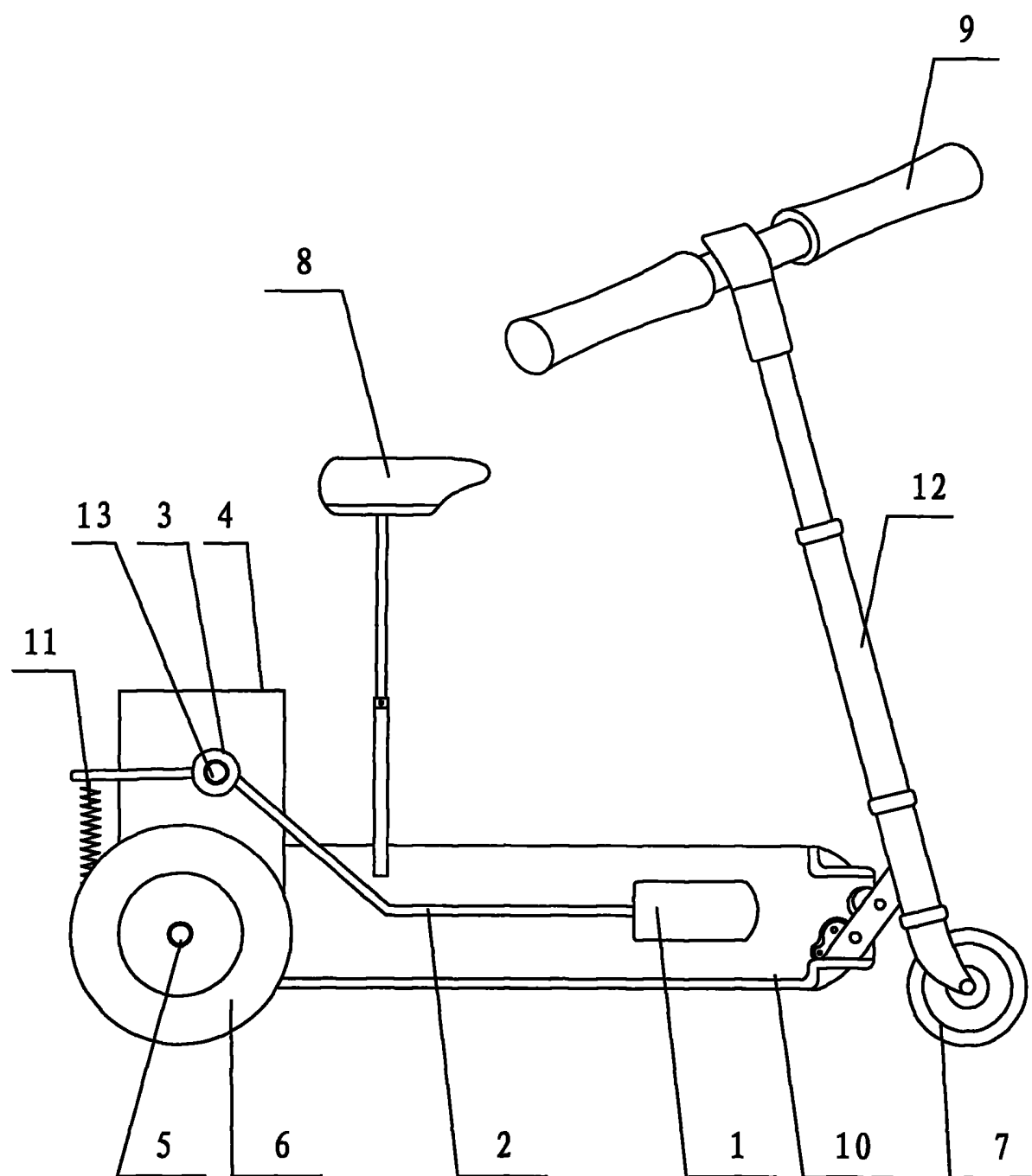


图 1

CN201472550

U 2010-05-19 CN201472550U

Abstract

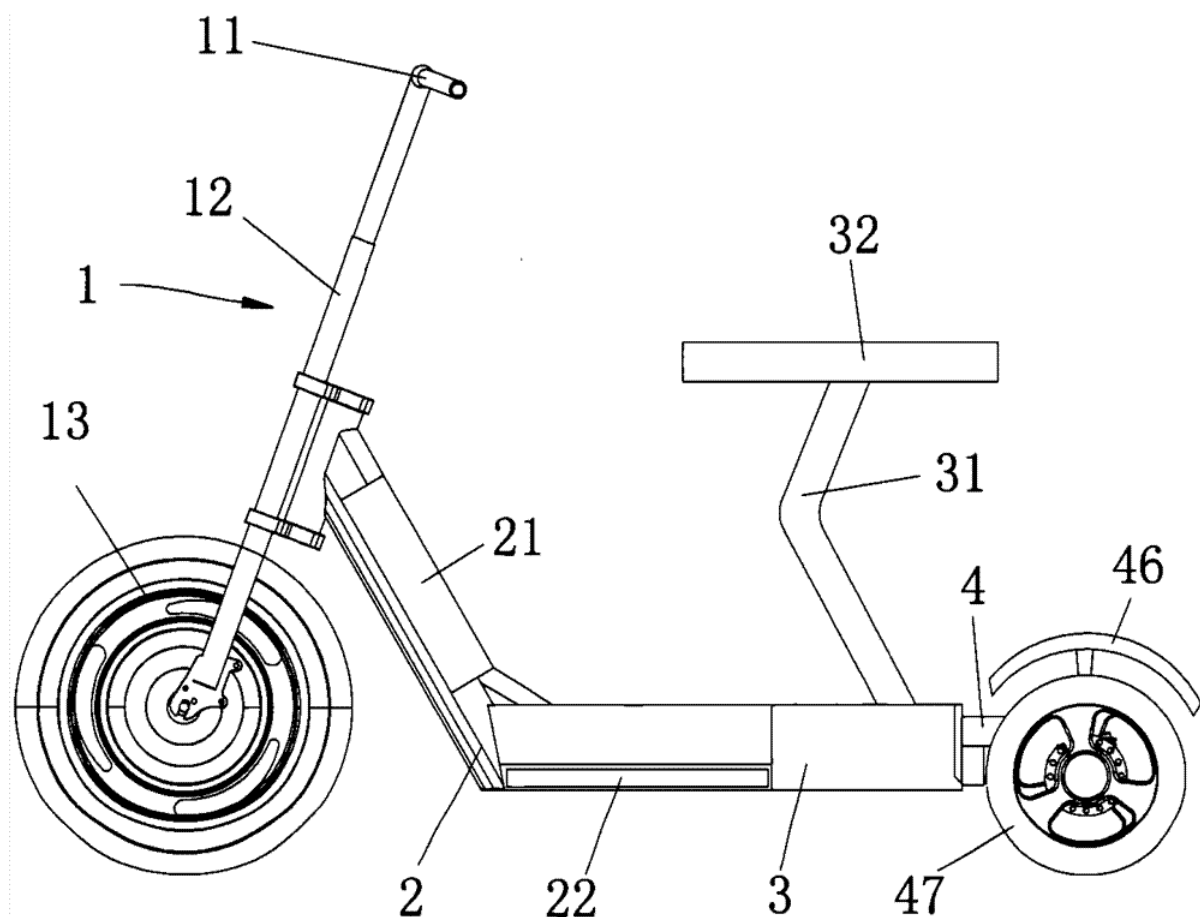
(CN201472550U)

The utility model discloses a pedal type **three-wheeled scooter** which comprises a vehicle body (10), a vehicle handle (9), a front fork vertical pipe (12), a seat cushion (8), front wheels (7) and rear wheels (6), wherein a gear variable-speed box (4) is arranged on the rear portion of the vehicle body (10), the rear wheels (6) are respectively installed on two ends of an output shaft (5) of the gear variable-speed box (4), one end of an input shaft (13) of the gear variable-speed box (4) is provided with an input one-way device (3), a connecting rod (2) is fixed on the input one-way device (3), a pedal (1) is fixed on the front end of the connecting rod (2), and a reset spring (11) is connected between the rear end of the connecting rod (2) and the vehicle body (10). After the structure is adopted, the potential safety hazard of the **scooter** and the defect that the **scooter** can not be used as a loaner car are solved, and the pedal type **three-wheeled scooter** has the advantages of simple and rational structure, flexible and light use, excellent stability, safety and reliability, and is suitable for the old and the young, and the like.

Family 25/100 - FAMPAT - ©Questel

Title

(CN206437144U)

Novel electronic folding three -wheeled **scooter****Images****Publication data including kind & date**

CN206437144

U 2017-08-25 CN206437144U

**Abstract**

(CN206437144U)

The utility model discloses a novel electronic folding three -wheeled **scooter**, including locomotive, frame forebody and frame metasoma, the frame forebody is connected to the locomotive, and shock absorber behind the body coupling behind the frame, rear axle include fixed plate, spring holder, rotatable body, connecting seat and wheel hub connector, this novel electronic folding three -wheeled **scooter**, the cushion can be dismantled, therefore, the fan is very convenient, back shock

absorber can filter the vibrations that the road surface injustice was brought, improve the driving travelling comfort of car, install the spring holder in rotatable body's the inside cavity, the automobile body can be controlled the gradient and not fall, be applicable to riding of different road surfaces, the travelling comfort is better, the rotatable body of installation on the above -mentioned rear axle can be replaced by a massive connecting seat, owing to cancelled rotatable body, **scooter** than current is more stable, be applicable to urban road, high in stability, it is safer to ride, the installation is simple with the method of dismantling, general type is good.

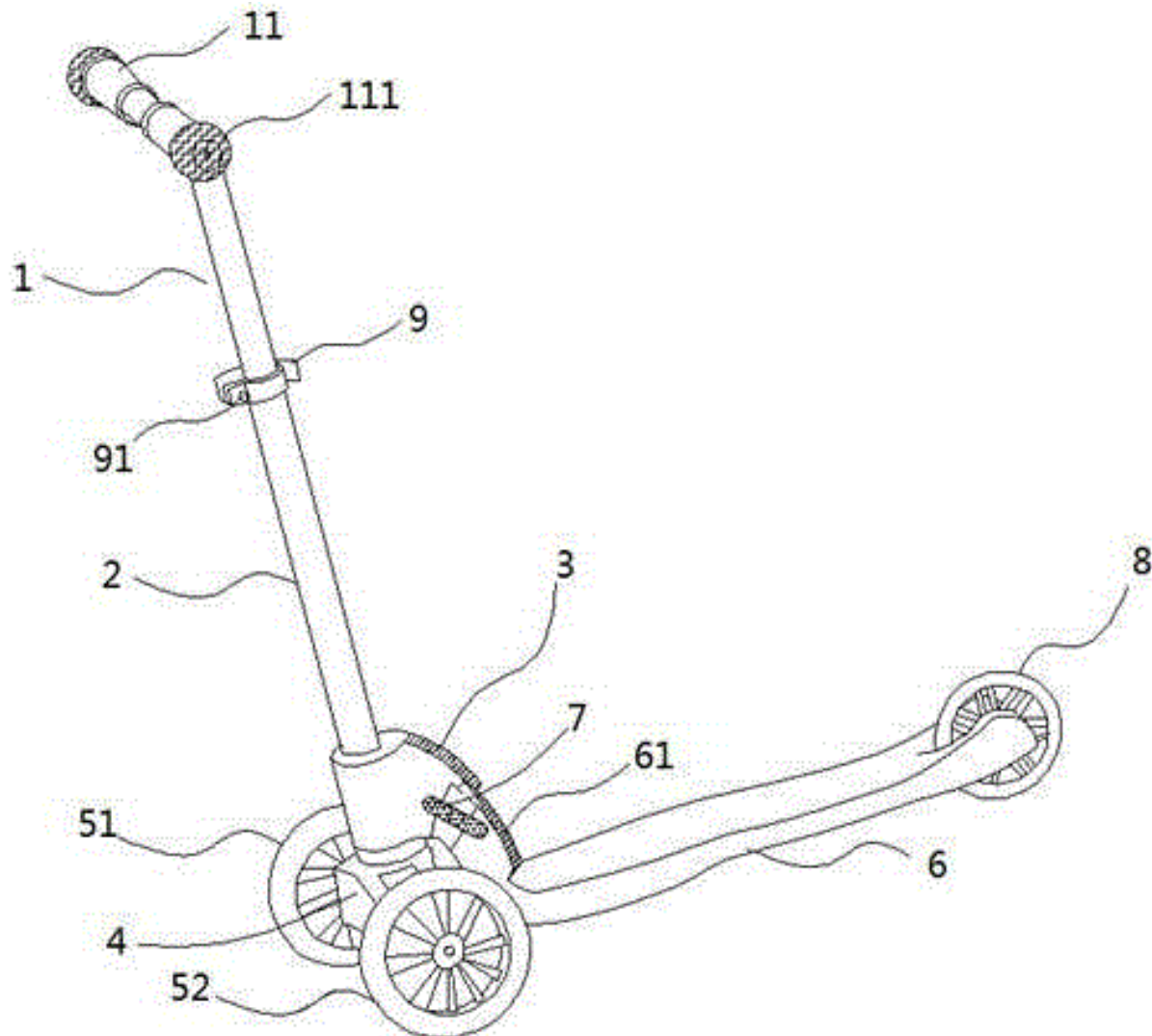
Family 26/100 - FAMPAT - ©Questel

Title

(CN205345240U)

Three -wheeled **scooter**

Images



Publication data including kind & date

[CN205345240](#)

U 2016-06-29 CN205345240U



Abstract

(CN205345240U)

The utility model discloses a three -wheeled **scooter** relates to the **scooter**, including T type pipe, the stay tube of T type socle end is connected on the top, the mounting bracket of joint support socle end, front wheel mount pad and the running -board of connecting the mounting bracket, be provided with first through -hole on the mounting bracket, front wheel mount pad both ends are provided with first preceding wheel and the preceding wheel of second respectively, running -board one end is provided with the installation department, be provided with the second through -hole the same with a diameter of hole on this installation department, match in the position of first through -hole the position of this second through -hole, a screw rod and first through -hole and the cooperation of second through -hole spiral, this screw rod passes first through -

hole and second through -hole, the one end that the installation department was kept away from to the running -board is provided with the rear wheel. Leading two -wheeled is rearmounted one round, is favorable to improving three -wheeled scooter's stability, be more convenient for left -hand seat and use, running -board and mounting bracket are connected to the screw rod, and the accessible rotates the angle of adjusting between handlebar, stay tube and the running -board, are favorable to improving using experiencing.

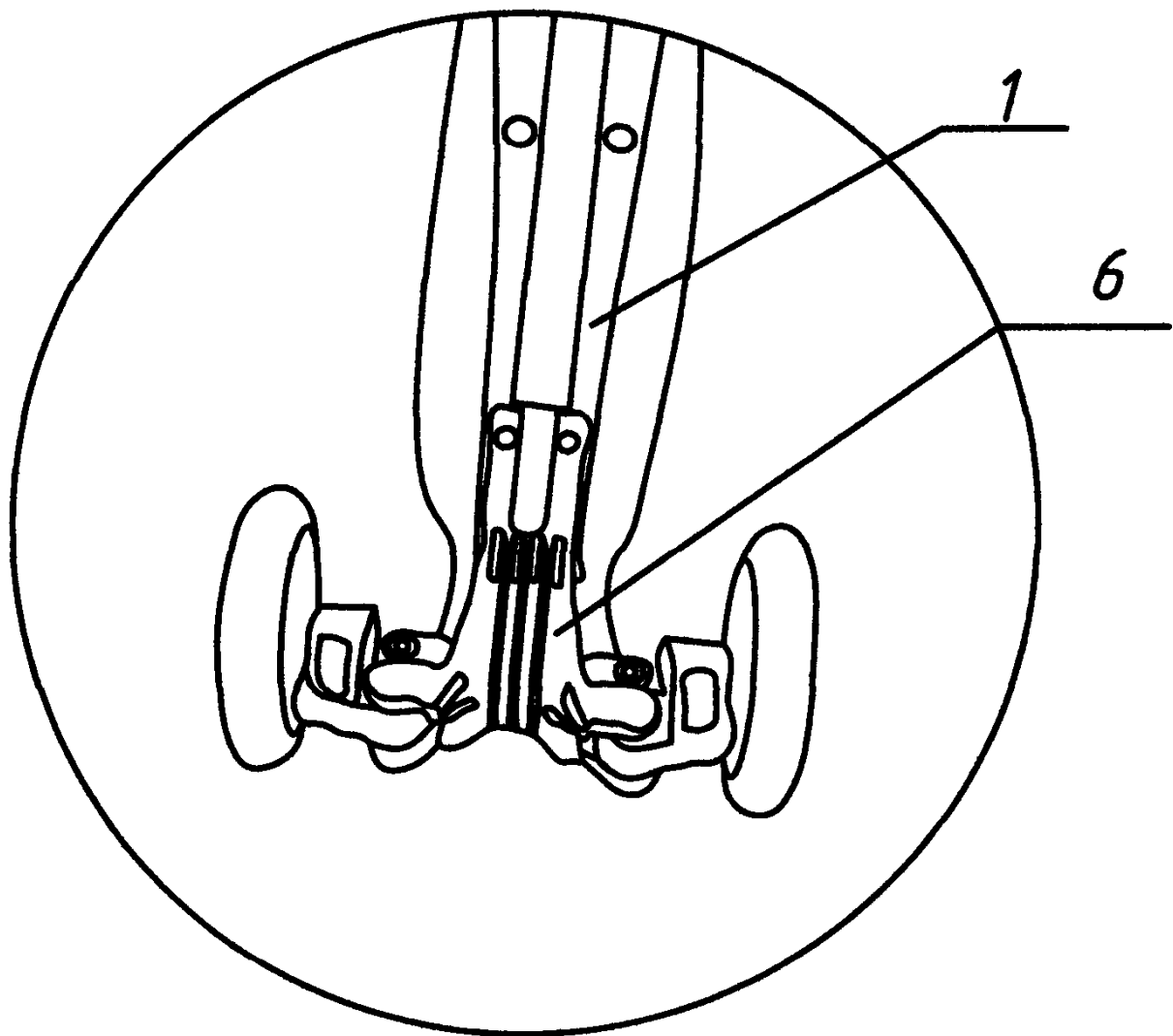
Family 27/100 - FAMPAT - ©Questel

Title

(CN202879701U)

Novel **three-wheeled scooter**

Images



Publication data including kind & date

[CN202879701](#)

U 2013-04-17 CN202879701U



Abstract

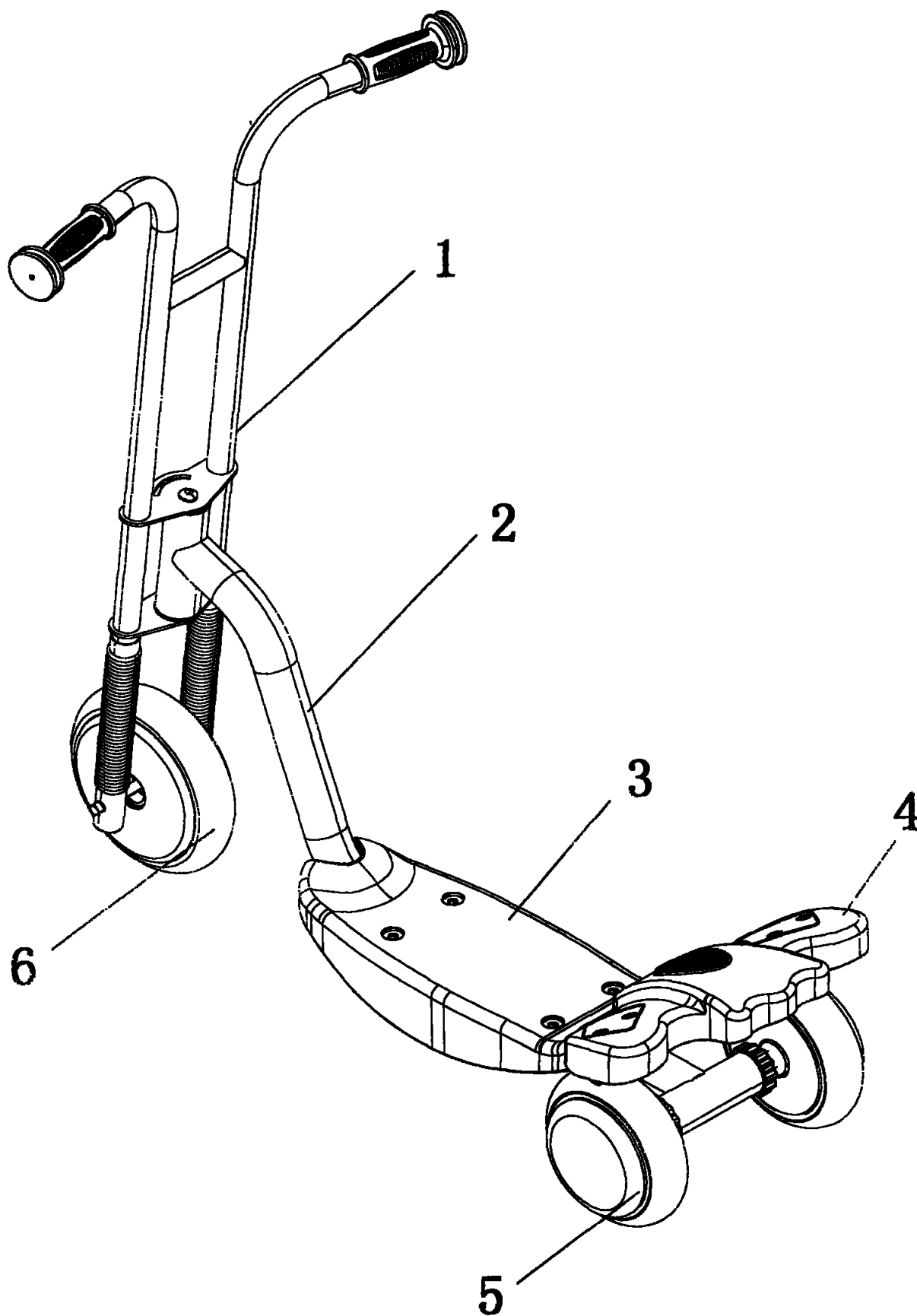
(CN202879701U)

The utility model discloses a novel **three-wheeled scooter** which comprises a saddle underframe, a cushion, a steering gear and a pedal, wherein a rear wheel is arranged on the middle rear portion of the saddle underframe, and the steering gear is connected with the front end of the saddle underframe in a pivot mode. Two front wheels are respectively arranged on steering supports located two sides of the steering gear, and reinforced ribs are arranged between the steering gear and the saddle underframe. The novel **three-wheeled scooter** has the advantages that a user can slide the novel **three-wheeled scooter** in a sitting mode, and steering of the novel **three-wheeled scooter** can be realized through gravity center of the user. A basket for containing objects is arranged on the front of the **scooter**, and a handle has different appearances, and the structure is novel.

Family 28/100 - FAMPAT - ©Questel

Title

(CN201961448U)

Spark-throwing **three-wheeled scooter****Images**

Publication data including kind & date

CN201961448

U

2011-09-07

CN201961448U



Abstract

(CN201961448U)

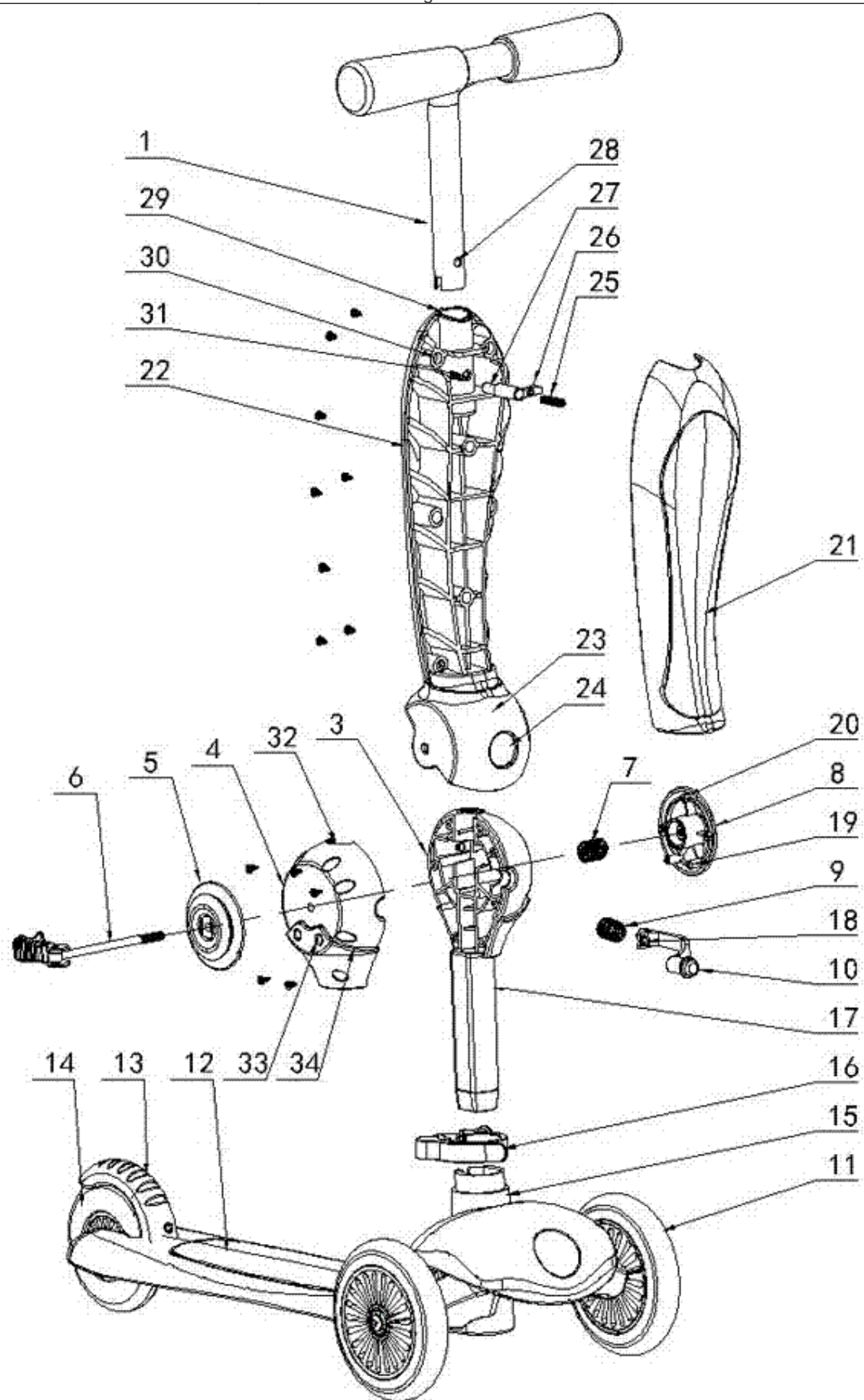
The utility model relates to a spark-throwing **three-wheeled scooter**, which comprises a frame, a pedal, a double-bar handle, a front wheel, two brake covers and two rear wheels. The double-bar handle and the front wheel are arranged on the front part of the frame, the brake covers are movably arranged on the rear part of the frame, and the two rear wheels are arranged on the rear part of the frame.. The spark-throwing **three-wheeled scooter** is characterized in that the bottom surfaces of the tail parts of the brake covers are respectively provided with two groups of roller seats and rollers corresponding to the two rear wheels, two pairs of cylindrical through holes are respectively arranged in the tail parts of the brake covers and correspond to knurled annular surfaces at the two ends of the two rollers, screws, compression springs and flints are assembled sequentially in the two cylindrical through holes, and the lower ends of the flints extend out of the corresponding cylindrical through holes and are contacted with the knurled annular surfaces at the two ends of the corresponding rollers in a matching way. When the brake covers are stepped on, the middle parts of the two rollers can be contacted with the corresponding rear wheels and sparks can be thrown out of the tail parts of the brake covers during sliding. The spark-throwing **three-wheeled scooter** has a simple structure, is convenient to use and is very funny.

Family 29/100 - FAMPAT - ©Questel

Title

(CN207191268U)

Children can sit and to ride three -wheeled **scooter****Images**



(CN207191268U)

The utility model discloses a children can sit and to ride three -wheeled scooter, include handle bar (1), left right front wheel (11), footboard assembly (12), rear wheel (14) that the front portion of footboard assembly (12) is equipped with handle fixing base (15), handle fixing base (15) and being equipped with cushion connecting device between the handle bar (1), cushion connecting device including folding cushion (2), cushion connecting seat (37), a left side, right side compressed end cover (8, 5), the afterbody of folding cushion (2) is equipped with the fixed cover of handle bar (29), the head of folding cushion (2) is equipped with joint connecting seat (23), be equipped with handle bar jack (24) on joint connecting seat (23), the upper portion of cushion connecting seat (37) is equipped with handle bar fixed orifices (32), the lower part of cushion connecting seat (37) is equipped with dead lever (17), a left side, right side compressed end cover (8, 5) Press from both sides joint connecting seat (23) tight and fix on cushion connecting seat (37) through locking mechanism. After adopting this structure, have advantages such as compact structure, convenient operation, conversion rate are fast, firm in connection, use safe and reliable.

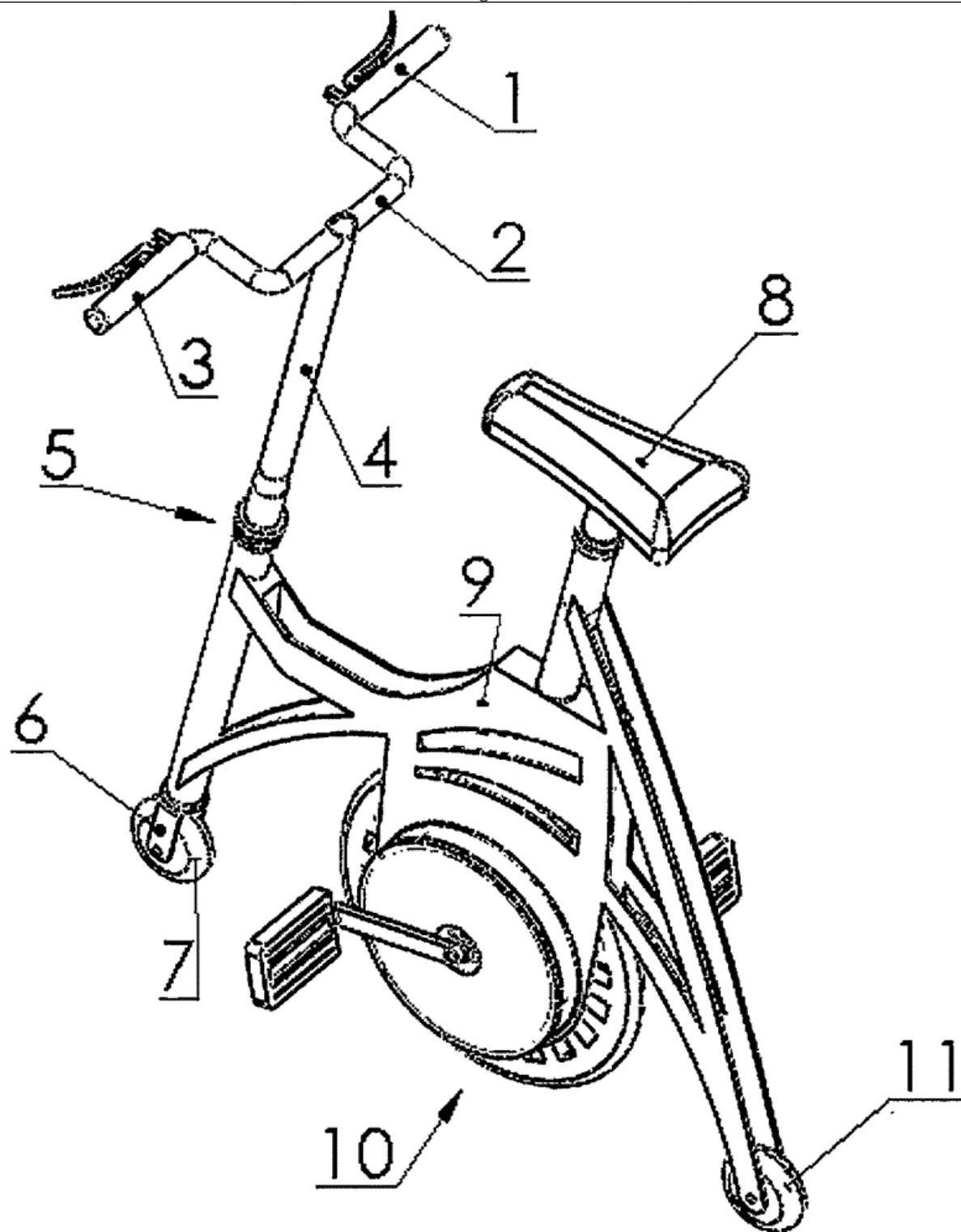
Family 30/100 - FAMPAT - ©Questel

Title

(CN109808816)

Three-wheeled scooter

Images

**Publication data including kind & date**

CN109808816

A

2019-05-28

CN109808816

**Abstract**

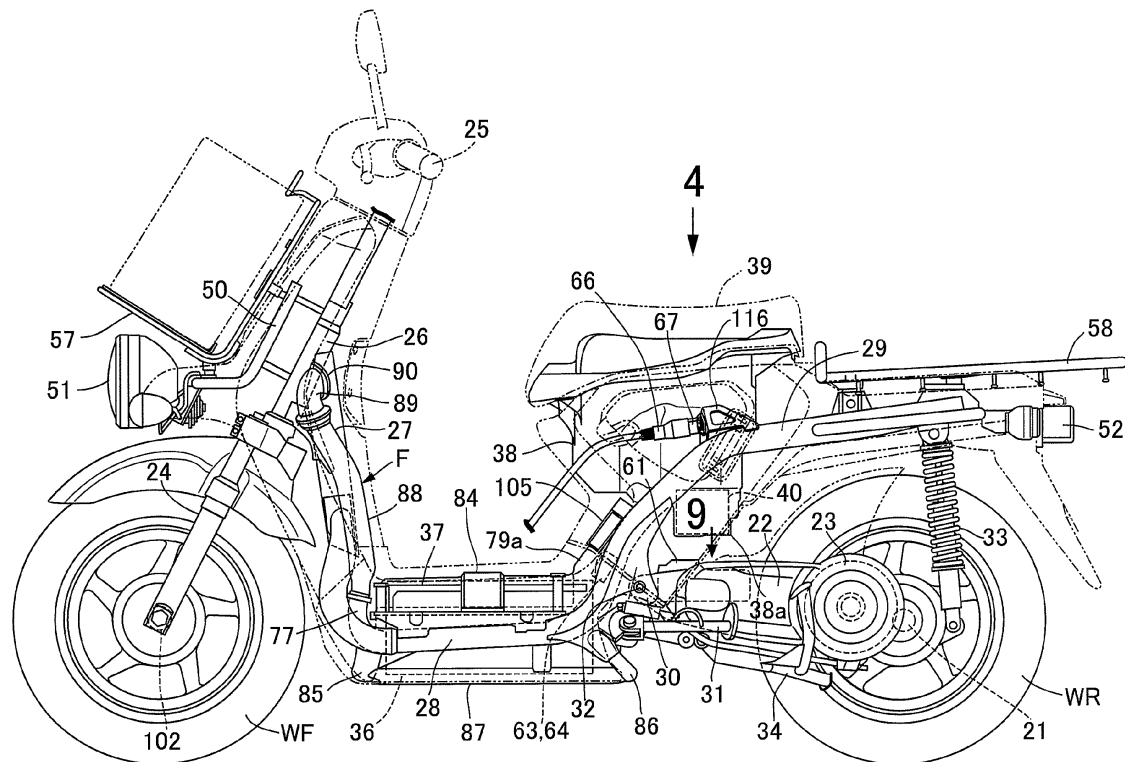
(CN109808816)

The present invention relates to recreational walk-substitute tool, especially a geared mechanism is provided for accelerating forward is used, the length of the vehicle body can be effectively reduced, avoided completely off the chain of a **three-wheeled scooter**. Includes a right brake handle, the handle, and the left brake, the front straight tube, a seven-piece bowl, fork, a front wheel, seat, frame, drive assembly and rear wheel. A **three-wheeled** vehicle and novel concept walk-substitute, reasonable structure, convenient operation, shortening the length of the vehicle body, which overcomes the disadvantages of the conventional bicycle easy to swap chain, the noise is small, the reactive power loss is small, the riding comfort.

Family 31/100 - FAMPAT - ©Questel

Title

(EP2479092)

Electric two- or **three-wheeled** vehicle**Images****Publication data including kind & date**

WO2011033605	A1	2011-03-24	WO2011033605
TW201116440	A	2011-05-16	TW201116440
CN102498030	A	2012-06-13	CN102498030
VN30186	A	2012-06-25	VN--30186
US20120175178	A1	2012-07-12	US20120175178
EP2479092	A1	2012-07-25	EP2479092
JPWO2011033605	A1	2013-02-07	JP2011033605W
JP5220926	B2	2013-03-15	JP5220926
EP2479092	A4	2013-04-17	EP2479092
US8505668	B2	2013-08-13	US8505668
TWI406785	B	2013-09-01	TWI406785
CN102498030	B	2014-03-12	CN102498030B
EP2479092	B1	2014-05-07	EP2479092
ES2465009	T3	2014-06-04	ES2465009
VN0014445	B	2015-09-25	VN--14445B
IN3266/CHENP/2012	A	2015-11-20	IN2012CN03266

**Abstract**

(EP2479092)

An electric two/**three-wheeled** vehicle includes: a battery case which houses a battery supplying electric power to an electric motor; a leg shield which covers, from a front, legs of a rider sitting on a riding seat; a cooling air inlet duct which has a downstream end portion thereof connected to the battery case; and a cooling fan which introduces cooling air into the battery case through the cooling air inlet duct. In the electric two/**three-wheeled** vehicle, an opening (90) open toward a rear

of the vehicle is provided in the leg shield (43), and an upstream end of the cooling air inlet duct (88) is connected to the leg shield (43) in such a manner as to continue to the opening (90). Accordingly, it is possible to cool a battery while preventing entry of dust into a battery case as much as possible.

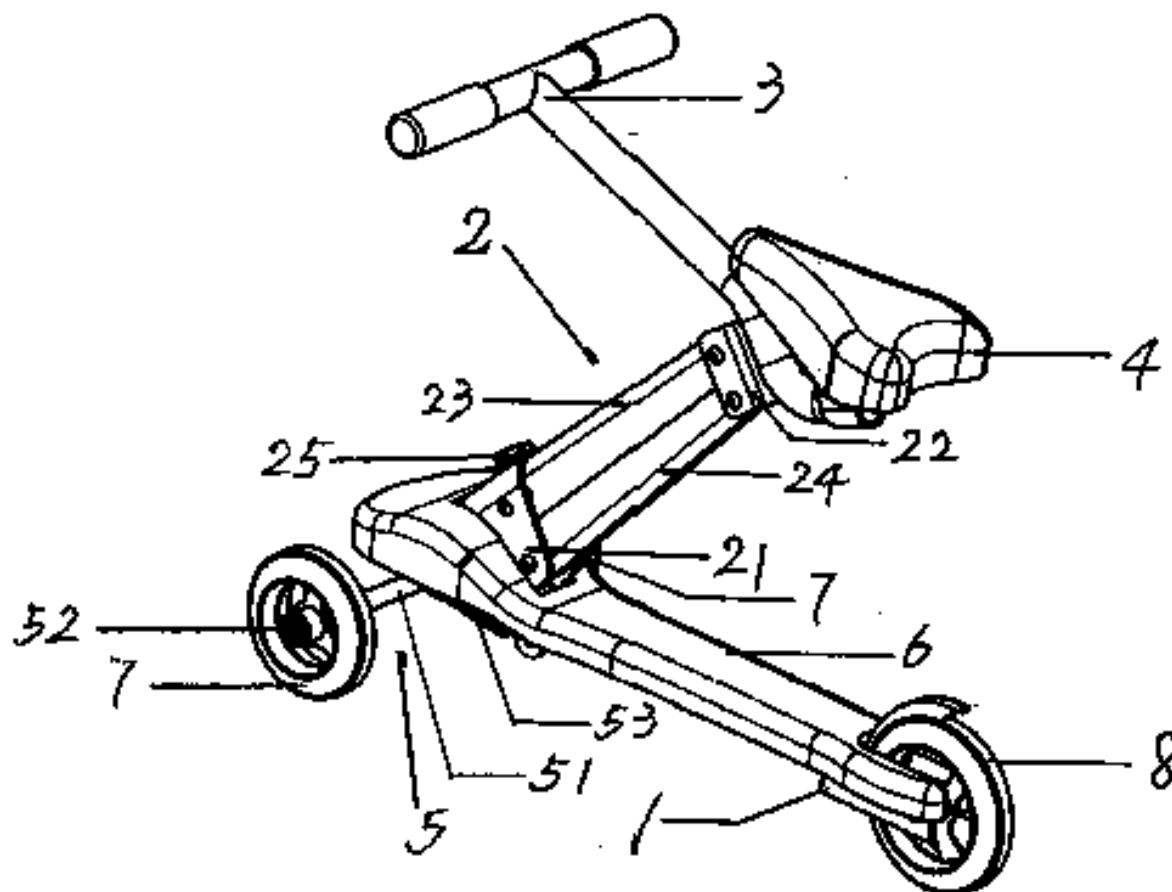
Family 32/100 - FAMPAT - ©Questel

Title

(CN205059881U)

Folding sitting posture three -wheeled **scooter** of Z shape

Images



Publication data including kind & date

[CN205059881](#)

U

2016-03-02

CN205059881U



Abstract

(CN205059881U)

The utility model provides a folding sitting posture three -wheeled **scooter** of Z shape, including the body frame, the folding leg, the handlebar, the saddle, the steering spindle, the housing, two front wheels and rear wheel, the body frame is by the longeron pipe, the rotary drum, back vent and connection piece welding form, the folding leg is by the base, the footstock, preceding pole, back pole and halving spare are formed by connecting, the base welds on the longeron pipe, the housing is connected with the connection piece, the footstock welds in the handlebar back lower place, halving spare is located preceding pole lower part, U -shaped opening halving with the base, the saddle is connected to the handlebar rear end, the steering spindle includes preceding central siphon, front axle and extension spring, preceding central siphon rotates connects the rotary drum, the front axle penetrates preceding central siphon, two front wheels are connected in two of front axle, the extension spring is connected in the preceding auricle of steering spindle and the back auricle on the body frame, the rear wheel is installed in the back vent.

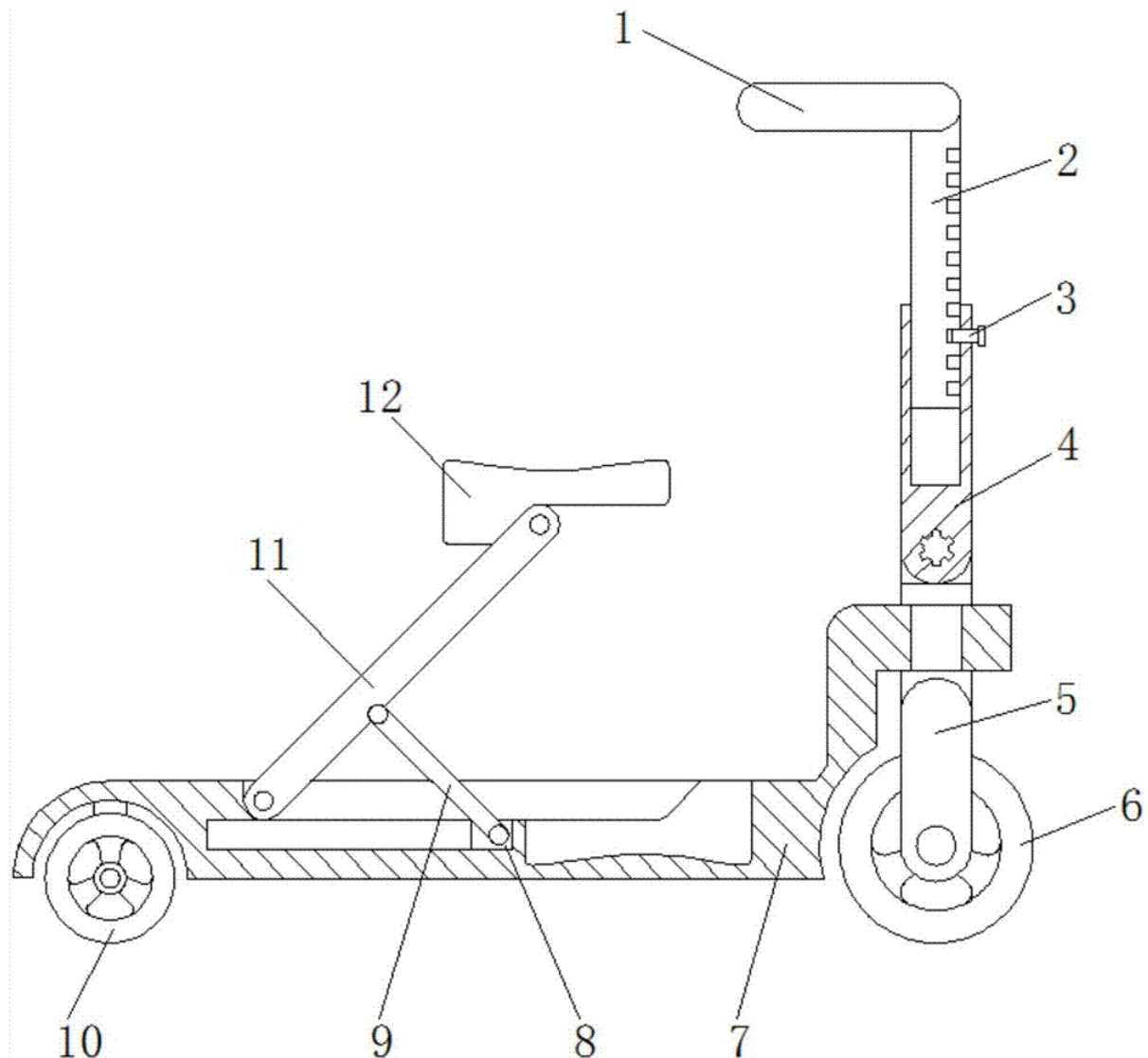
Family 33/100 - FAMPAT - ©Questel

Title

(CN207433719U)

Three -wheeled **scooter** of adjustable height

Images



Publication data including kind & date

[CN207433719](#)

U 2018-06-01 CN207433719U



Abstract

(CN207433719U)

The utility model discloses a three -wheeled **scooter** of adjustable height, comprising a base plate, open the top of bottom plate outer wall one side has the fore carriage mounting hole, and the innerwall of fore carriage mounting hole has cup jointed the fore carriage, open one side of fore carriage outer wall bottom has the front axle mounting hole, and the inner wall of front axle mounting hole is connected with the front axle through the bearing, one side outer wall of front axle has the front wheel through the key -type connection, the top outer wall of fore carriage is opened there is the bracing piece spliced eye, and the inner wall of bracing piece spliced eye pegs graft and have the bracing piece, the top outer wall of bracing piece is opened there is the slide bar spout, and the inner wall sliding connection of slide bar spout has the slide bar. The utility model discloses can improve the operation comfort level according to user's height height -adjusting, enlarge application scope, can fold fast and open the bracing piece, provide convenient for the transportation of **scooter**, also save occupation space when not using more, the user can sit the use **scooter**, provides therest for the user.

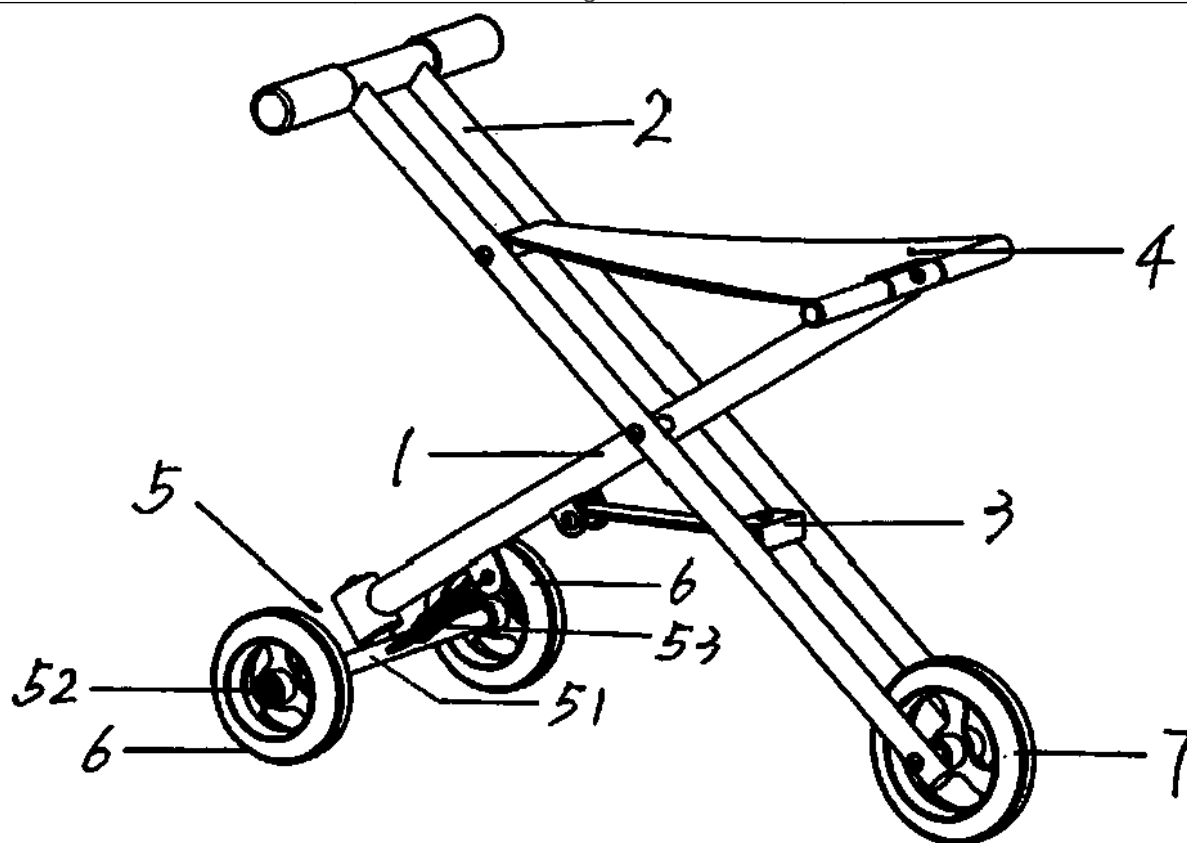
Family 34/100 - FAMPAT - ©Questel

Title

(CN205059882U)

Tighten cloth saddle formula three -wheeled **scooter**

Images



Publication data including kind & date

CN205059882

U

2016-03-02

CN205059882U



Abstract

(CN205059882U)

The utility model provides a tighten cloth saddle formula three -wheeled **scooter**, including frame I, frame II, the stretching structure, the steering spindle, the saddle, two front wheels and rear wheel, the frame is I by the sloping pipe, the rotary drum, in violently the pipe weld with the rear cross -tube and form, frame II is managed and is formed horizontal sealing of tube by the // ellbeam, in the middle part of frame II and the frame I violently the pipe rotate and be connected, II front portions of frame are connected with the front end of saddle, the rear wheel is connected to II rear ends of frame, the stretching structure is by flute profile even piece, the stretching is detained and the stretching pole constitutes, a flute profile even related stretching pole is connected in the middle part of frame I, the stretching is detained and is connected in the rear portion of frame II, the stretching pole can be detained by the stretching and hold, the rear end and the rear cross -tube of saddle are connected, the steering spindle includes preceding central siphon, front axle and extension spring, preceding central siphon rotates connects the rotary drum, the front axle penetrates preceding central siphon, two front wheels are connected in two of front axle, the extension spring acts on the steering spindle.

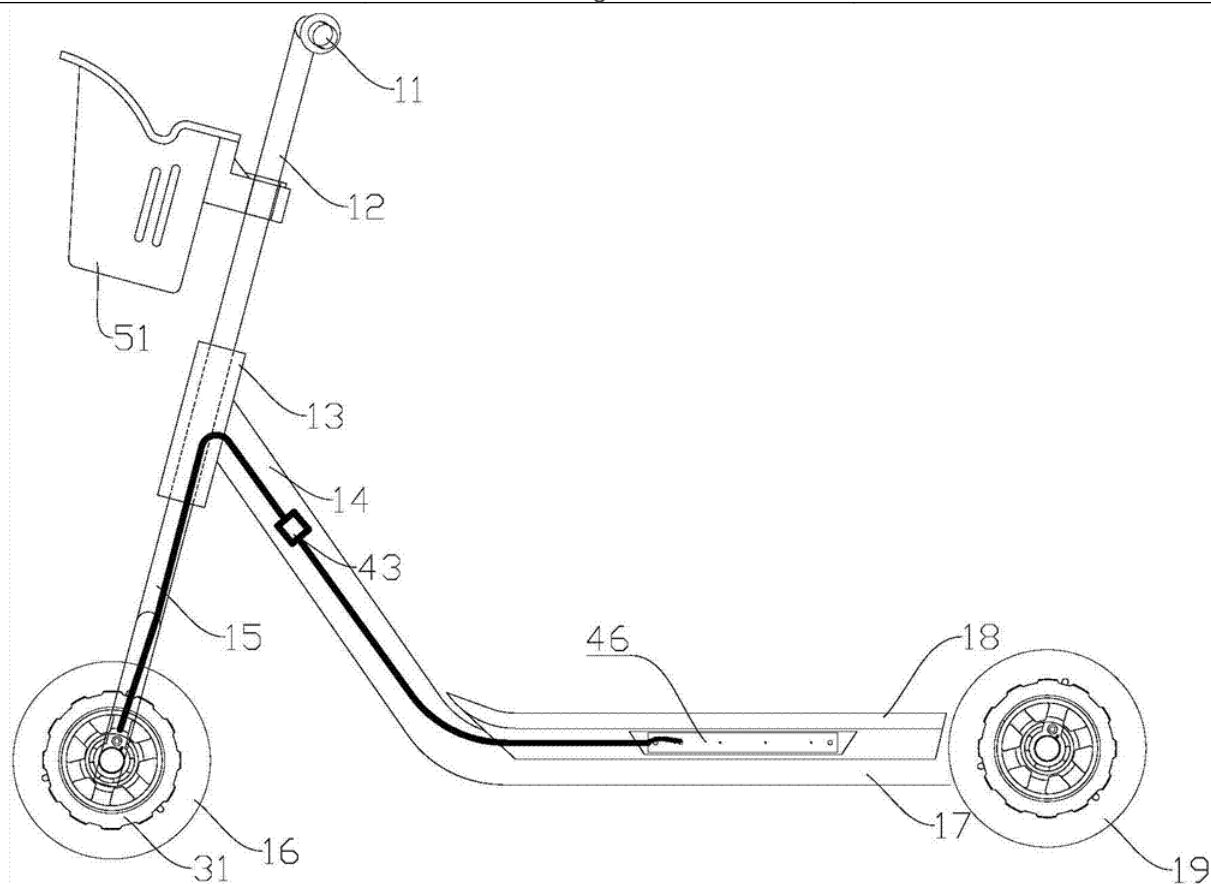
Family 35/100 - FAMPAT - ©Questel

Title

(CN208470032U)

Three -wheeled **scooter**

Images

**Publication data including kind & date**[CN208470032](#)

U

2019-02-05

CN208470032U

**Abstract**

(CN208470032U)

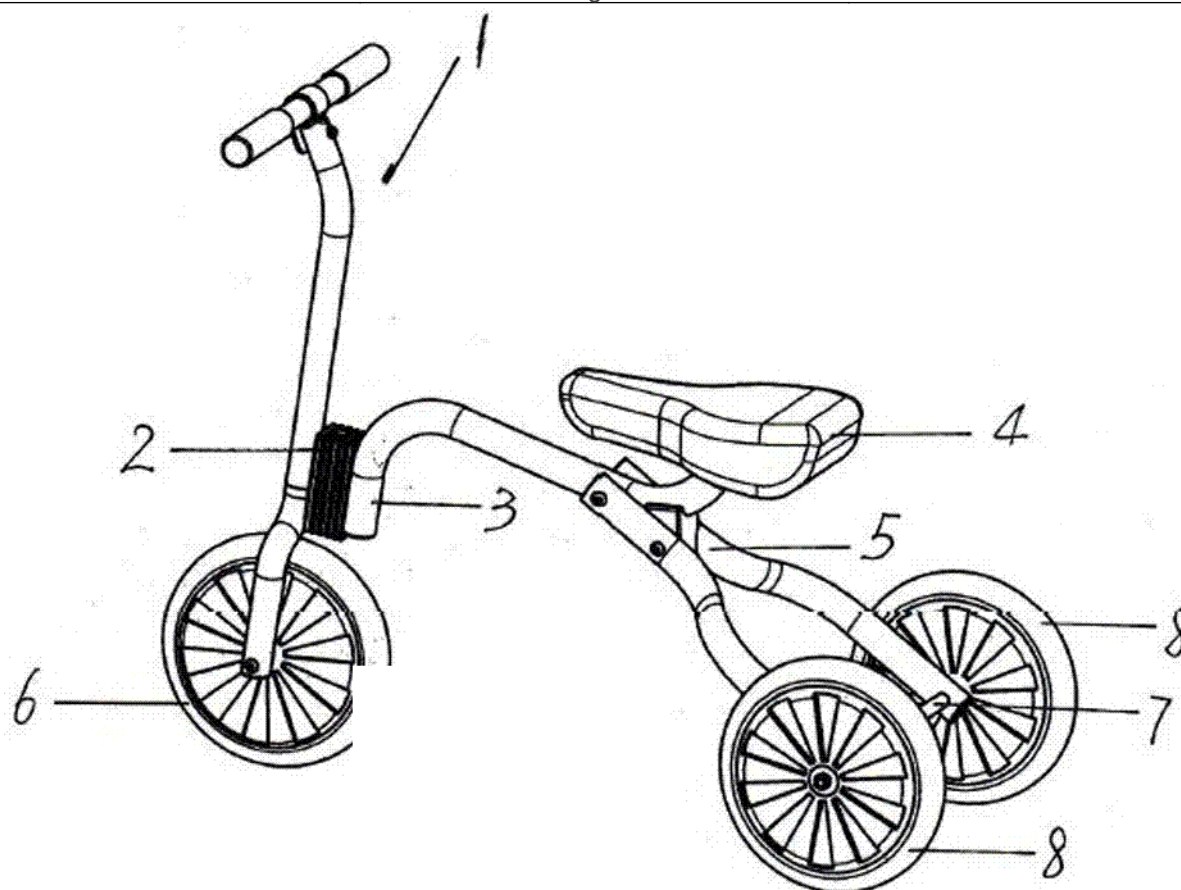
The utility model discloses a three -wheeled **scooter**, include: locomotive, automobile body, the locomotive setting is anterior at the automobile body, and detain in being equipped with the generator at front wheel and/or rear wheel middle part, detains in the generator and set up the generator, through detaining structure and the wiring of generator power transmission line in the generator of optimizing for new pipeline need not be added on exporting the illuminator of **scooter** with the electric energy to generator in the wheel, avoids sending out the problem that the glazed panel car need charge, elegant appearance, and light in weight is applicable to children's amusement exercising apparatus technical field.

Family 36/100 - FAMPAT - ©Questel

Title

(CN105836011)

Child's sitting-type **scooter** with three wheels**Images**



Publication data including kind & date

CN105836011	A	2016-08-10	CN105836011
CN105836011	B	2018-05-11	CN105836011B



Abstract

(CN105836011B)

Provided is a child's sitting-type **scooter** with three wheels. The child's sitting-type **scooter** comprises a handlebar, a transfer sleeve, a **scooter** beam, a saddle, a back fork, a front wheel, a back shaft and back wheels. The handlebar is composed of a vertical rod, a cross beam, a front rotary part, a cylindrical plug and a front shaft. An Omega shape of the vertical rod is connected with the cross beam. The vertical rod is connected with the front rotary part and the front shaft. The front rotary part is connected with the transfer sleeve in a sleeving mode. The **scooter** beam comprises a bent pipe and a back rotary part. The front side, bending downwards, of the bent pipe is connected with the back rotary part rotatably connected with the front rotary part. The saddle is mounted at the back end of the bent pipe of the **scooter** beam. The back fork is composed of a left fork pipe, a right fork pipe and a plastic linear. Two end parts of the back fork are connected with the position, bending over backwards, of the bent pipe of the **scooter** beam. A C-shaped opening of the plastic liner of the back fork is clamped with the position, bending over backwards, of the bent pipe of the **scooter** beam. The front wheel is connected with the front shaft of the handlebar in a sleeving mode. The back shaft is connected with two back ends of the back fork. The two back wheels are connected with two ends of the back shaft.

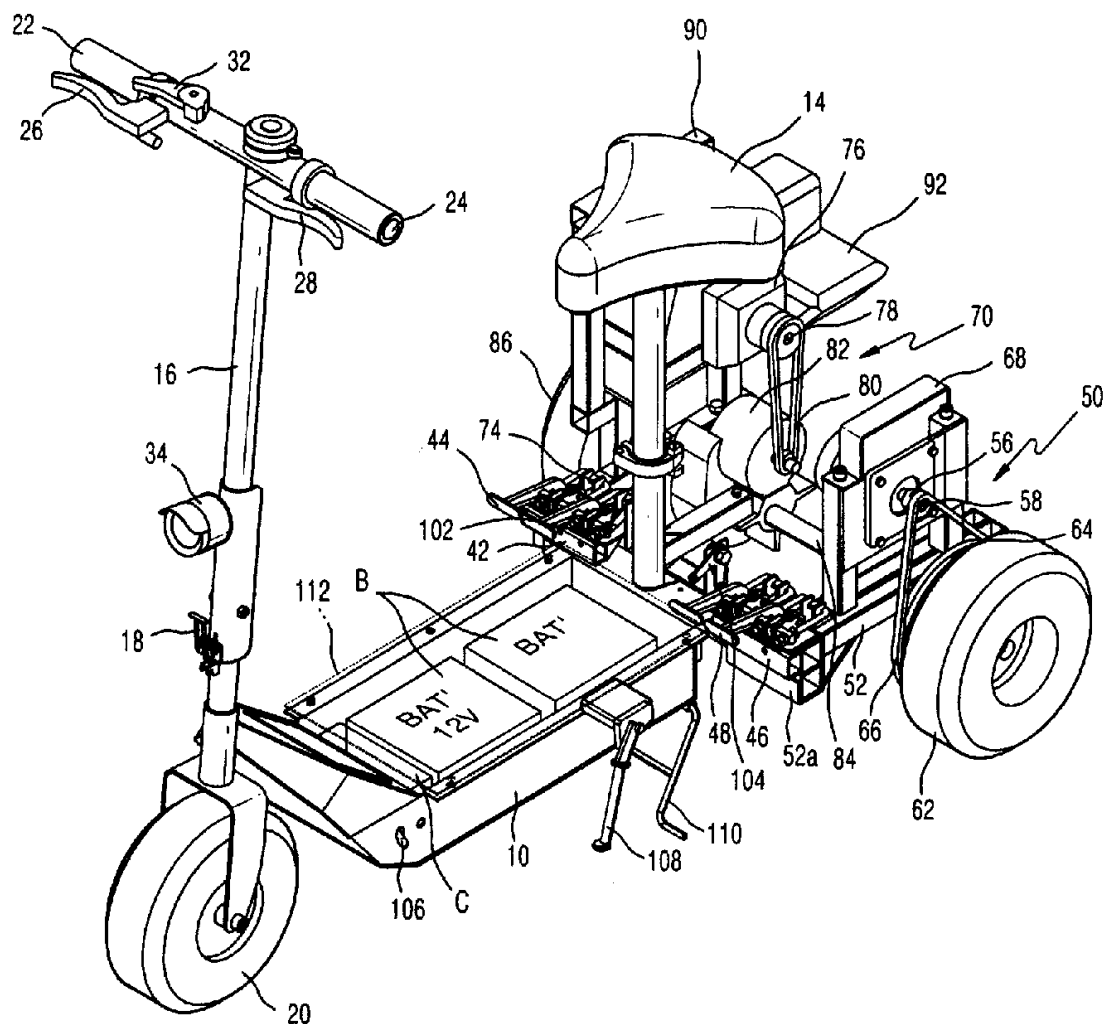
Family 37/100 - FAMPAT - ©Questel

Title

(EP1723029)

Wheel exchangeable **scooter**

Images



Publication data including kind & date

KR20050090227	A	2005-09-13	KR20050090227
WO2005085053	A1	2005-09-15	WO2005085053
KR100583430	B1	2006-05-24	KR100583430
EP1723029	A1	2006-11-22	EP1723029
CN1930036	A	2007-03-14	CN1930036
US20070187164	A1	2007-08-16	US20070187164
EP1723029	A4	2009-10-21	EP1723029



Abstract

(EP1723029)

A **scooter** with variable wheel configuration capable of being configured from a two- wheeled vehicle to a **three-wheeled** vehicle and vice- versa, according to requirement, is provided. The **scooter** includes: a frame for supporting and carrying a rider or a passenger and containing a battery and a controller; a steering assembly mounted on the front of the frame to pivot in left and right directions for steering, the steering assembly having a lower portion to which a front wheel is rotatably mounted and an upper portion provided with a handgrip for a rider to steer, a brake lever, an actuator control lever, and a throttle grip; a mount formed at a rear end of the frame in one-piece, the mount having a first mounting portion on one end and a second mounting portion on the other end; a first driving unit detachably mounted on the first mounting portion of the mount for a two-wheeled configuration or on the second mounting portion of the mount for a **three-wheeled** configuration; and a second driving unit detachably mounted to the first mounting portion and connected to the first driving unit for the **three-wheeled** configuration.

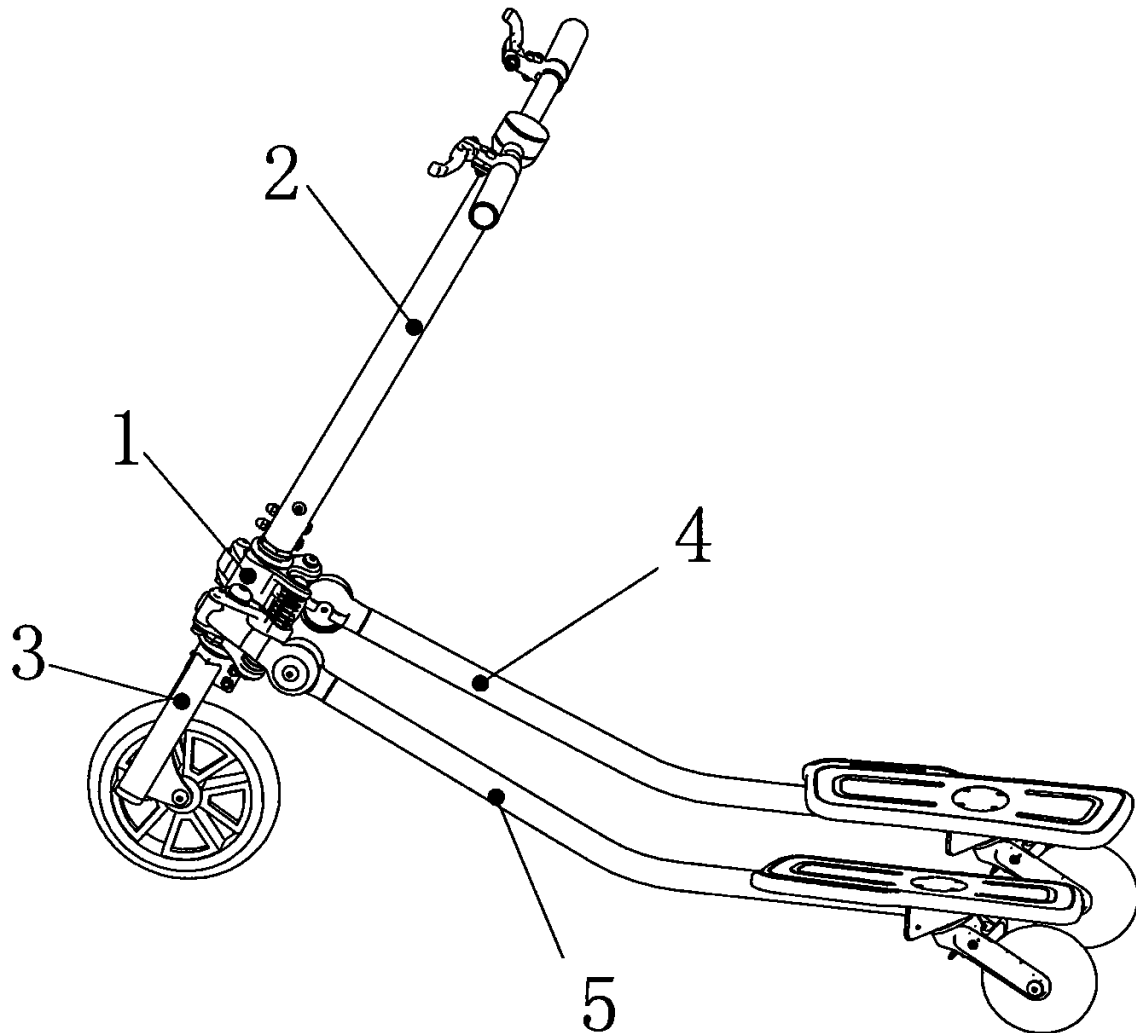
Family 38/100 - FAMPAT - ©Questel

Title

(CN101612974)

Novel **three-wheeled** sliding plate whole-body body-building **scooter**

Images



Publication data including kind & date

[CN101612974](#)

A

2009-12-30

CN101612974



Abstract

(CN101612974)

The invention relates to a novel **three-wheeled** sliding plate whole-body body-building **scooter**, which belongs to the technical field of fitness apparatuses. The **scooter** comprises a front fork group, a handle group, foot board groups, a universal rotating shaft structure and a steel bowl group, wherein the front fork group, the handle group and the left and right foot board groups are assembled and connected integrally through the universal rotating shaft structure and the steel bowl group. The universal rotating shaft structure is provided with a head pipe, a spring support, left and right connecting bridges, a rubber rod, a damping spring and a bearing; the handle group and the front fork group are assembled and connected with the upper end and the lower end of the head pipe respectively; the axial lines of a handle vertical rod of the handle group and a fork lever of the front fork group are positioned on the same center line with the pipe core line of the head pipe; the left connecting bridge and the right connecting bridge are connected and positioned on the left side and the right side of the spring support through bolts and the rubber rod; and the left foot board group and the right foot board

group are connected with the left connecting bridge and the right connecting bridge respectively through connectors. The **scooter** has the advantages of reasonable and compact structure, easy production and manufacture, good service performance, and the integration of entertainment and body building. In the folded state, the **scooter** takes small space and is convenient to carry.

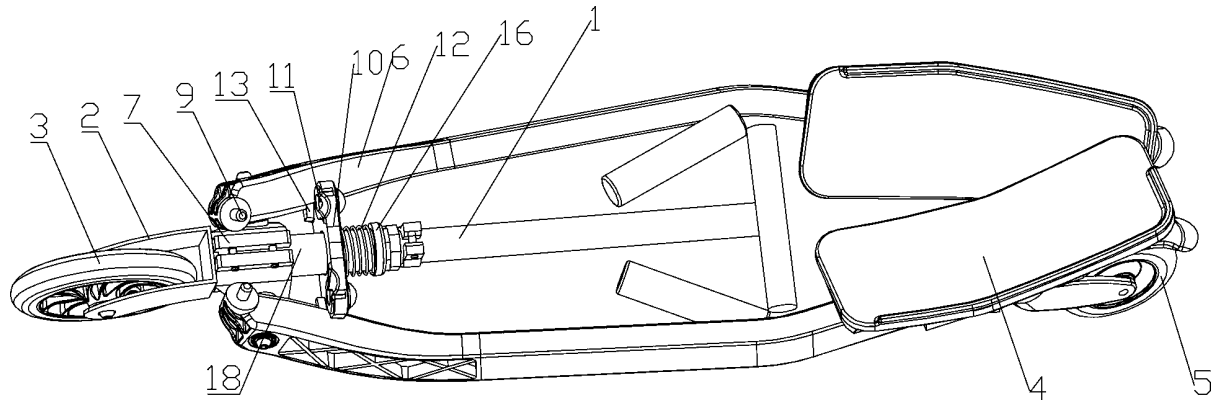
Family 39/100 - FAMPAT - ©Questel

Title

(CN202593743U)

Folding device for **three-wheeled scooter**

Images



Publication data including kind & date

[CN202593743](#)

U

2012-12-12

CN202593743U



Abstract

(CN202593743U)

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.

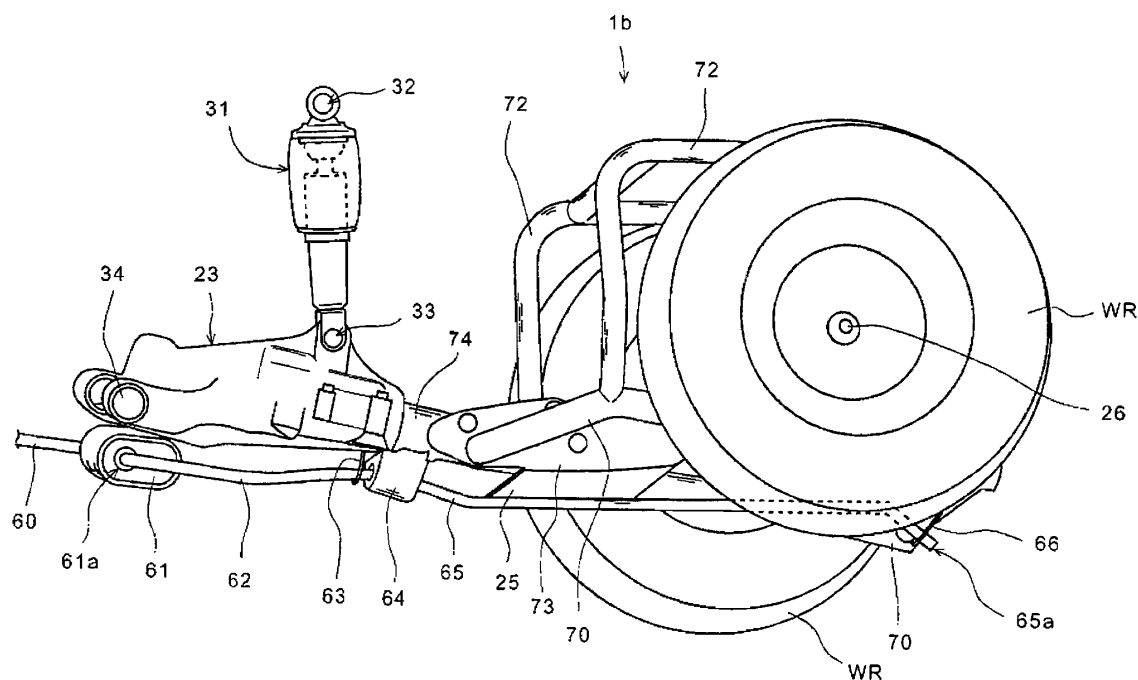
Family 40/100 - FAMPAT - ©Questel

Title

(US8177012)

Saddle-ride type fuel cell **three-wheeled** vehicle

Images



Publication data including kind & date

US20090075152	A1	2009-03-19	US20090075152
CN101397044	A	2009-04-01	CN101397044
JP2009073249	A	2009-04-09	JP2009073249
IN2273/CHE/2008	A	2010-04-02	IN2008CH02273
CN101397044	B	2011-03-09	CN101397044B
US8177012	B2	2012-05-15	US8177012
JP5046384	B2	2012-07-27	JP5046384
IN258653	B	2014-01-31	IN-258653



Abstract

(US8177012)

A saddle-ride **three-wheeled** vehicle has a fuel cell which generates an electric power by a chemical reaction between a fuel gas and a reaction gas. The **three-wheeled** vehicle includes a drain pipe which guides water discharged from the fuel cell out of a vehicle body; a rear body to which a pair of left and right rear wheels are journaled; and a linking mechanism which swingably links the rear body and a front body to allow the front body to sway left and right with respect to the rear body, wherein the drain pipe has a drain port between the pair of left and right rear wheels.

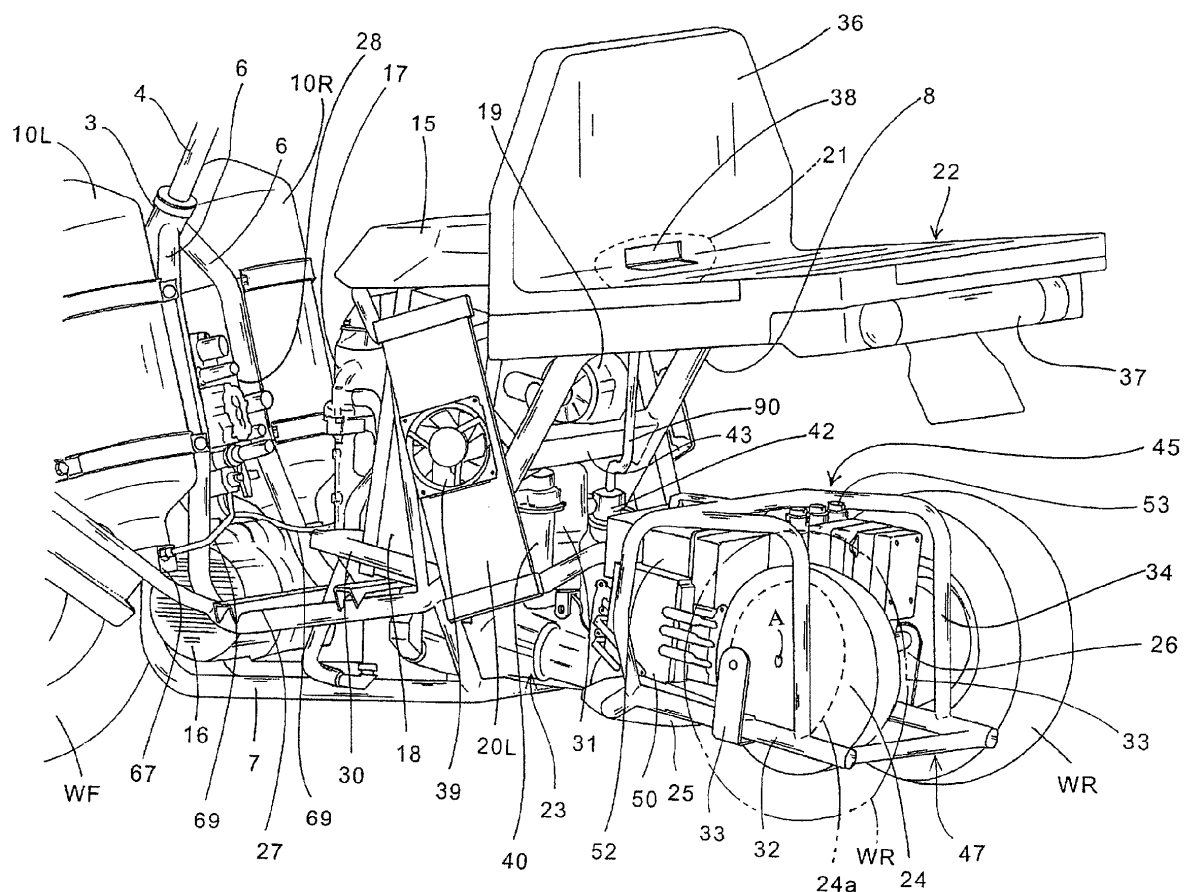
Family 41/100 - FAMPAT - ©Questel

Title

(US7926608)

Electric-motor **three-wheeled** vehicle

Images



Publication data including kind & date

CN101348148	A	2009-01-21	CN101348148
US20090020352	A1	2009-01-22	US20090020352
JP2009023449	A	2009-02-05	JP2009023449
IN1697/CHE/2008	A	2010-03-26	IN2008CH01697
CN101348148	B	2011-04-06	CN101348148B
US7926608	B2	2011-04-19	US7926608
JP5046382	B2	2012-07-27	JP5046382
IN263638	B	2014-11-14	IN-263638



Abstract

(US7926608)

An electric-motor **three-wheeled** vehicle includes a motor for applying a drive force to drive wheels, a motor control unit for controlling the motor, a secondary battery for storing electric power generated by a fuel cell, a rear body supporting a pair of left and right rear wheels and a connecting mechanism for connecting the rear body with a front body so as to tilt the front body while the rear wheels are in contact with the ground. The secondary battery is housed in the inside of a luggage carrier above the rear wheels. The motor and the motor control unit, including a motor driver and a main CPU, are mounted between the left and right rear wheels. The voltage converter increases or decreases the voltage of the electric power supplied from the fuel cell. The control drivers controls a supercharger of reaction gas and a electric pump of cooling water.

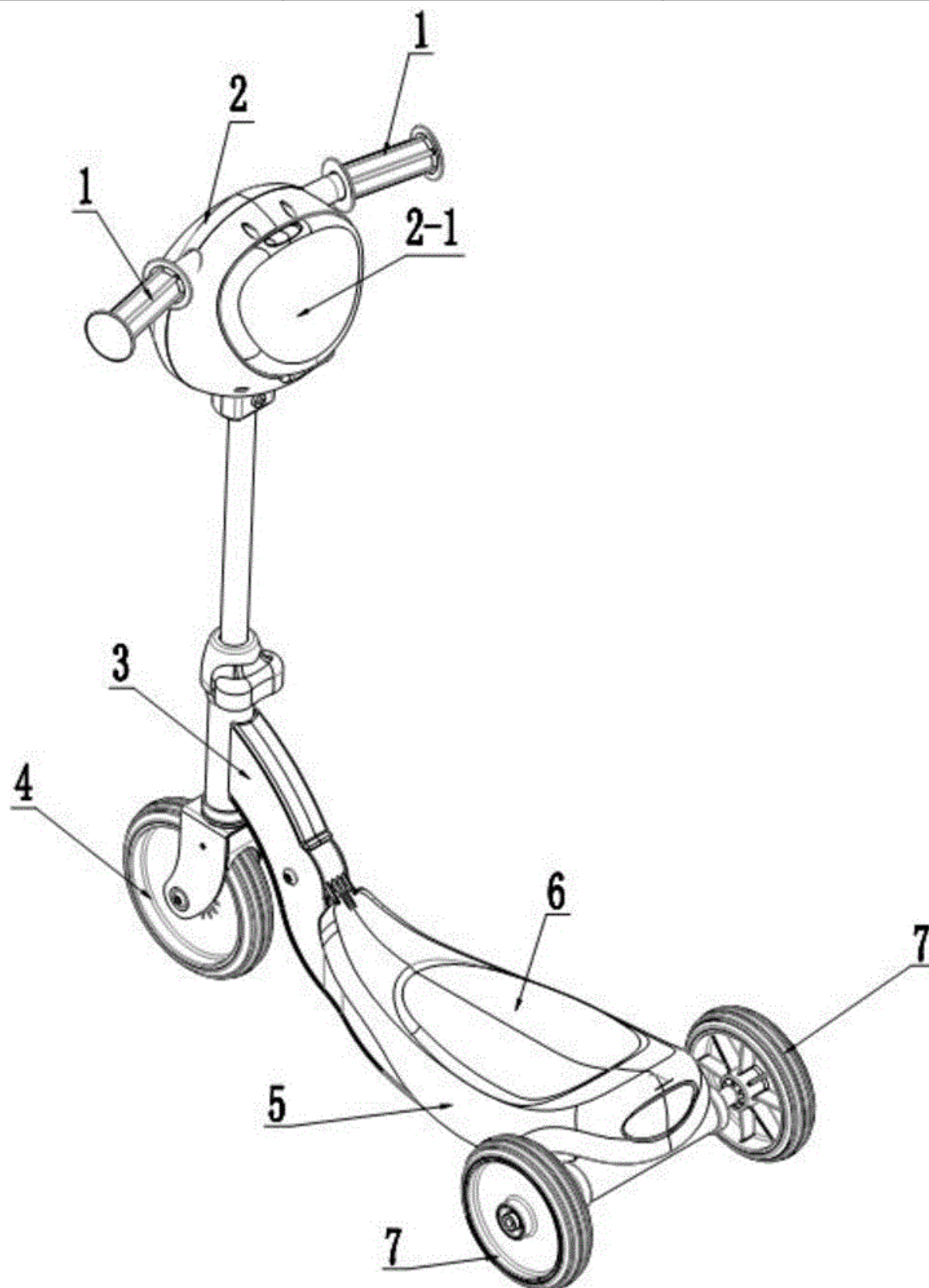
Family 42/100 - FAMPAT - ©Questel

Title

(CN205661600U)

Three -wheeled **scooter** with storing function

Images

**Publication data including kind & date**[CN205661600](#)

U

2016-10-26

CN205661600U

**Abstract**

(CN205661600U)

The utility model discloses a three -wheeled **scooter** with storing function, including controlling handlebar hand, handlebar cover, frame, front wheel, frame bottom, stand lid and two bilateral symmetry's rear wheel, handlebar cover insidely form an accommodation space and go back handlebar cover door closure and the handlebar cover sets up, handlebar cover door closure lower extreme and the pin joint of handlebar cover, handlebar cover door closure upper end adopt wedge hasp structure to lock each other with the handlebar cover, handlebar cover door closure openable or this accommodation space

closes, form a storing box to the frame bottom also forms a storing space with the station lid. Compared with the prior art, this three -wheeled **scooter** with storing function can be when child plays, can put into the storing box that the handlebar cover formed with other little article such as the little toy hand -carried, snacks, and it is more convenient to carry, and is difficult to lose.

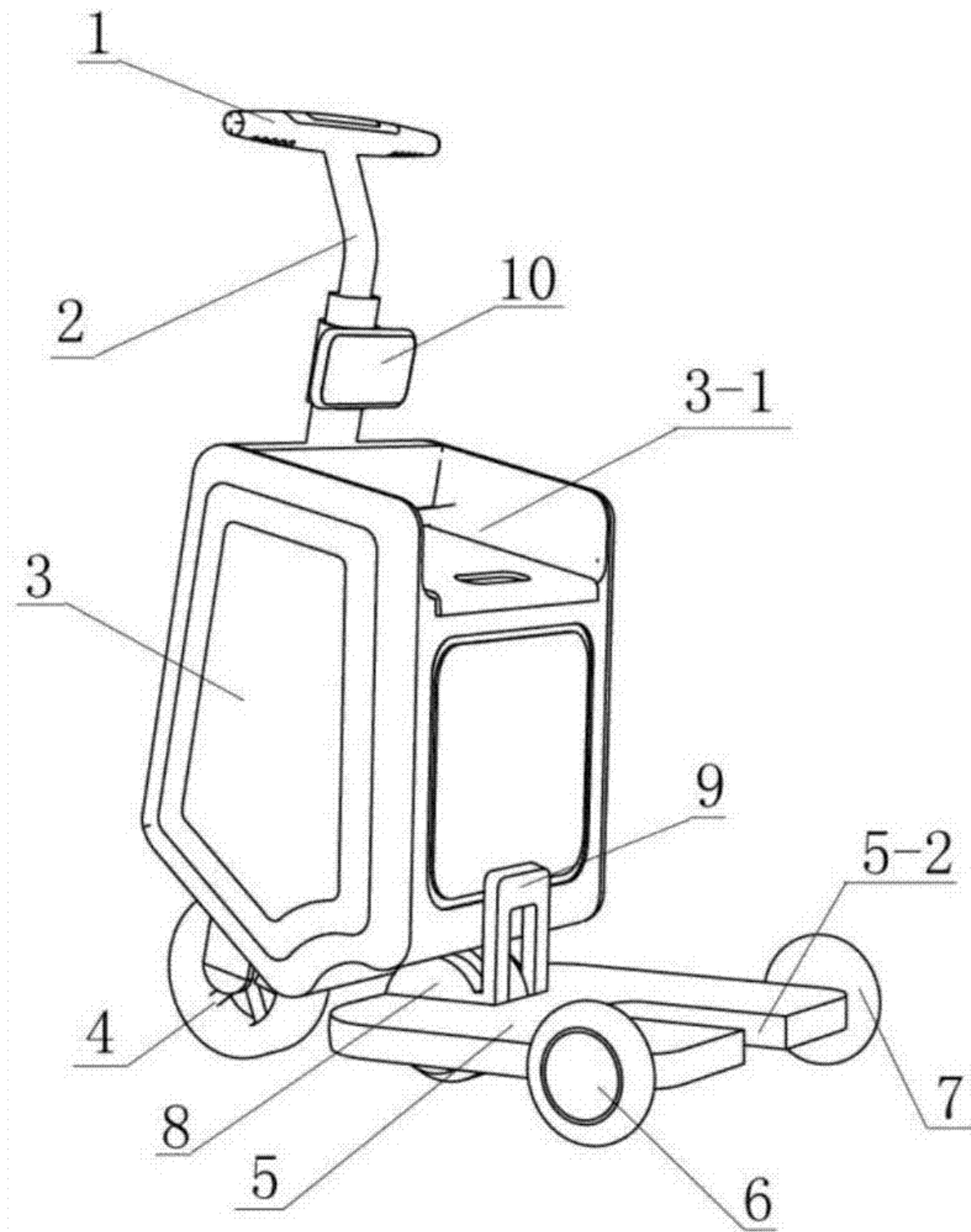
Family 43/100 - FAMPAT - ©Questel

Title

(CN208411966U)

Multi -functional three -wheeled **scooter**

Images



Publication data including kind & date

[CN208411966](#)

U

2019-01-22

[CN208411966U](#)



Abstract

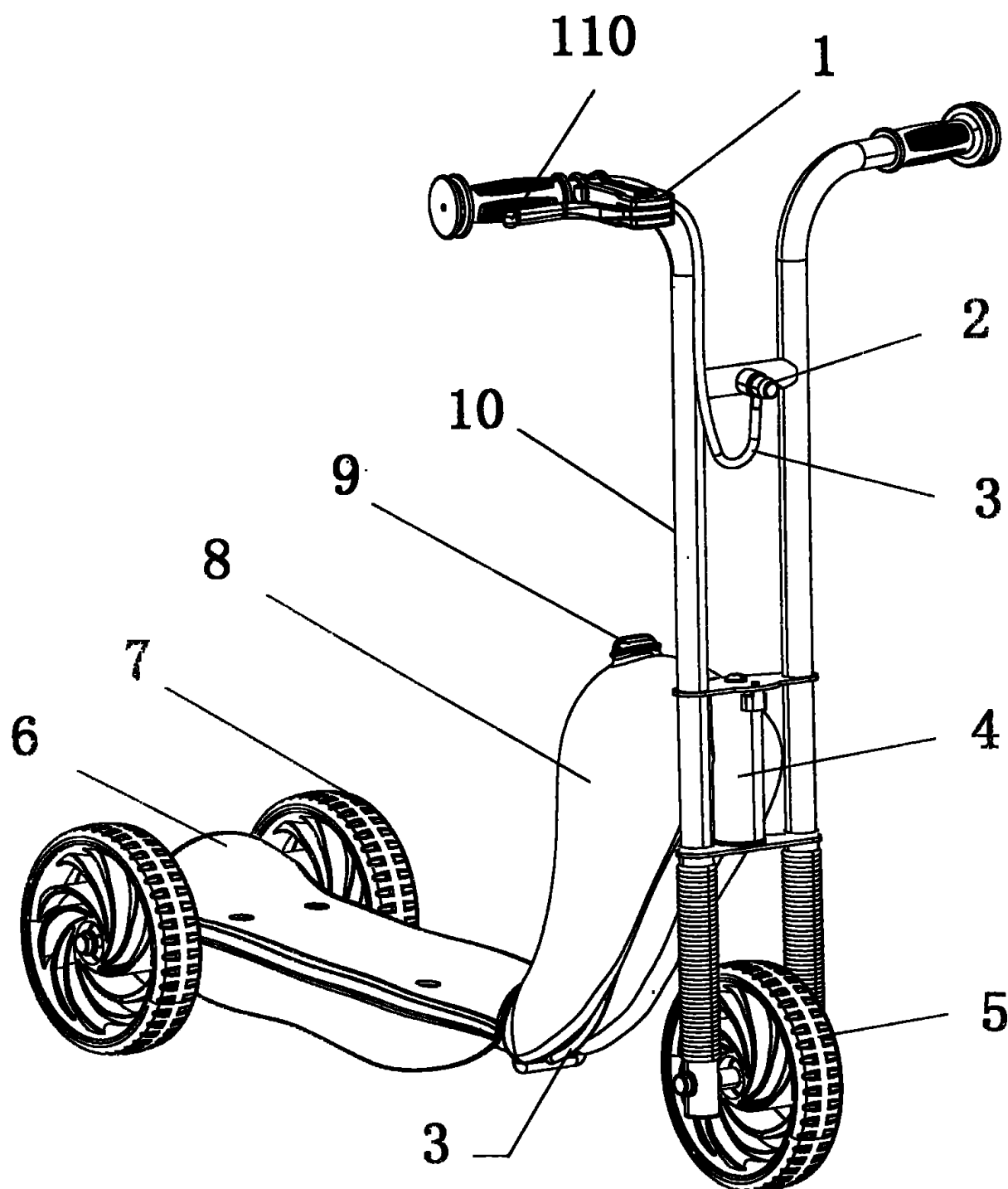
(CN208411966U)

The utility model belongs to domestic product field discloses a multi -functional three -wheeled **scooter**, including pull rod, box, footboard, front wheel, left rear wheel and right back round, still include the drum structure, the drum structural installation through the rotatory footboard of drum structure, can make the footboard be located box rear side or bottom half at the intermediate position of bottom half one side to convert the device into three -wheeled **scooter** or handcart, the box can be used to carry the goods, and the box top is equipped with the seat groove, and it is practical to supply to have a rest. Compared with the prior art, the utility model discloses a **scooter**, the function is many, and the performance is remarkable.

Family 44/100 - FAMPAT - ©Questel

Title

(CN201961450U)

Water spraying **three-wheeled scooter****Images**

CN201961450

U 2011-09-07 CN201961450U

Abstract

(CN201961450U)

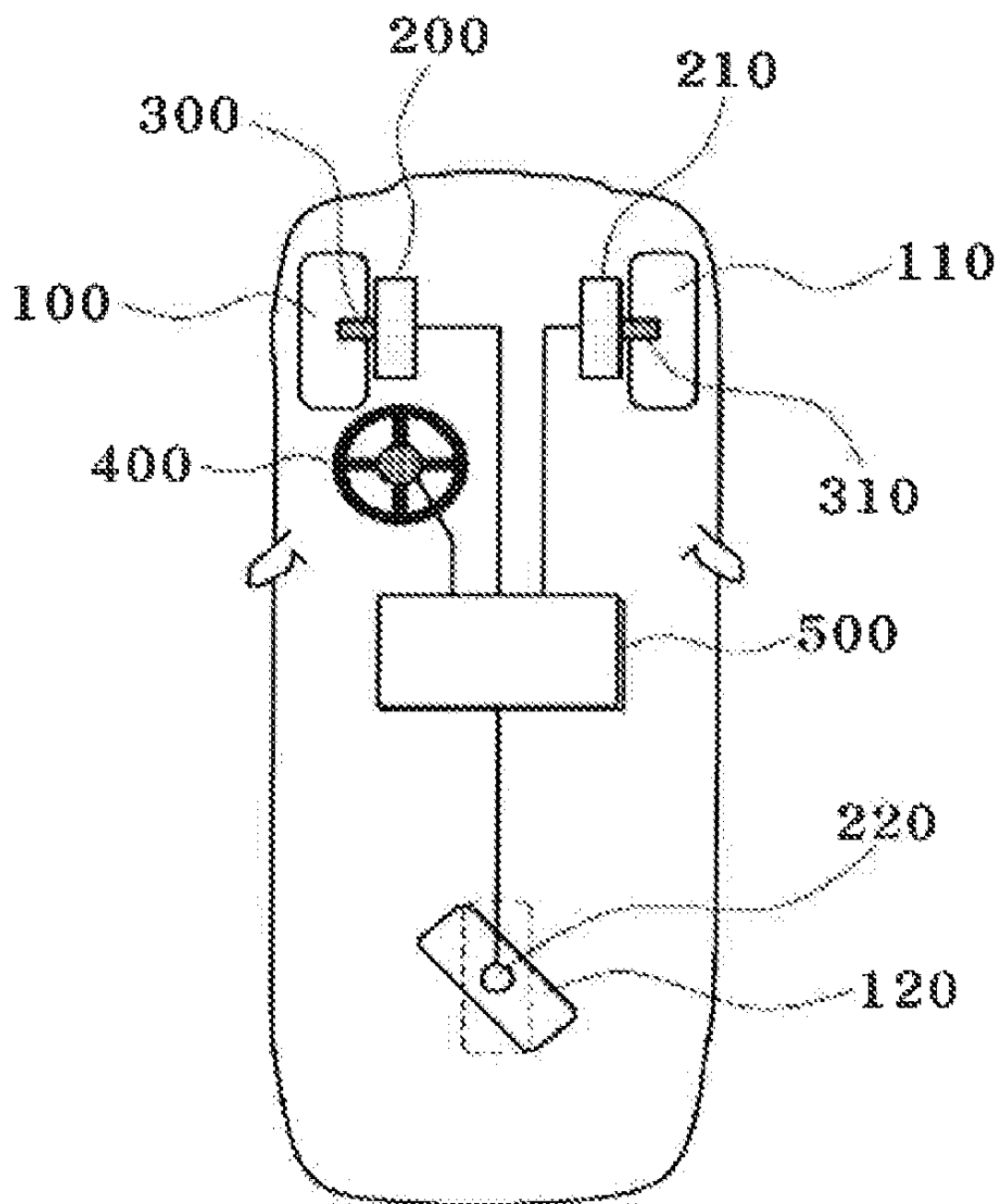
The utility model relates to a water spraying **three-wheeled scooter**. A pump is arranged on a hand lever of a handlebar; the upper part of a body of the pump is provided with an upper opening position cylinder and a movable hand press grip; the hand press grip is mounted on the upper part of the pump body through a backing pin; a lower convex handle at the right side of the hand press grip is correspondingly connected with the top end of a piston in the position cylinder in a pressing way; the lower end of the piston is connected with a return spring; a lower through hole of the piston cylinder is externally connected with an inlet joint; a single-way inlet valve ball is arranged between the inlet joint and the lower through hole of the piston cylinder; the inlet joint is externally connected with a water tank through a water tube; an outlet joint at one side of the piston cylinder is externally connected with a nozzle through a water tube; the nozzle consists of a nozzle body, a single-way outlet valve ball and a spring; and the lower part of the body is provided with an annular joint matched with the hand lever of the handlebar. The water spraying **three-wheeled scooter** is convenient to use and has strong reliability.

Family 45/100 - FAMPAT - ©Questel

Title

(US20130056287)

Three-wheeled electric vehicle**Images**



Publication data including kind & date

[KR101218337](#)

B1 2013-01-04

KR101218337

[US20130056287](#)

A1 2013-03-07

US20130056287



Abstract

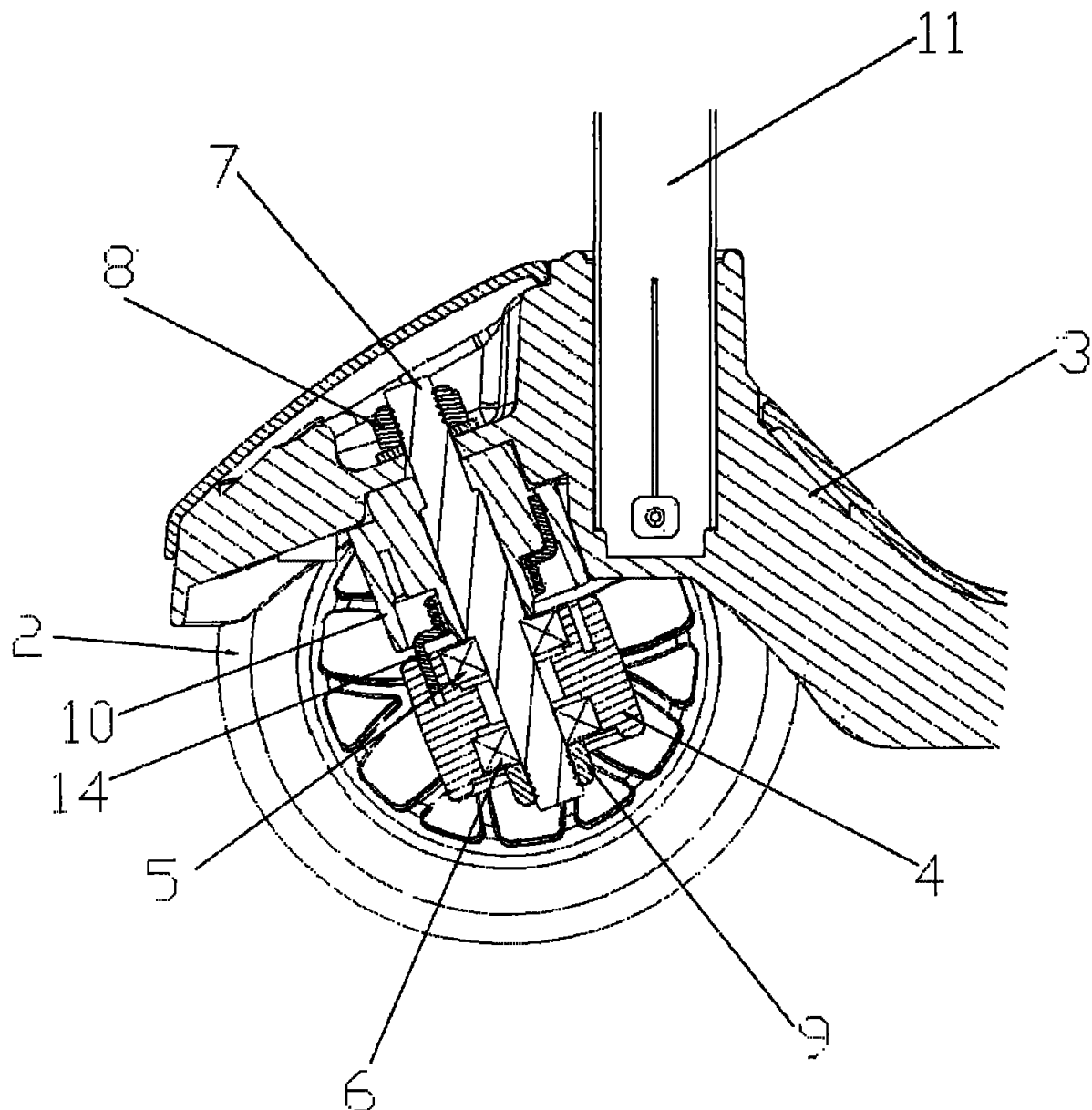
(US20130056287)

Provided is a **three-wheeled** electric vehicle. The **three-wheeled** electric vehicle includes: a front left wheel disposed on a front left portion of the **three-wheeled** electric vehicle; a front right wheel disposed on a front right portion of the **three-wheeled** electric vehicle; a rear wheel disposed on a rear center portion of the **three-wheeled** electric vehicle; a first driving motor configured to transfer a driving power to the front left wheel; a second driving motor configured to transfer a driving power to the front right wheel; and a steering motor configured to transfer a steering power to the rear wheel.

Family 46/100 - FAMPAT - ©Questel

Title

(CN204137223U)

Three-wheeled scooter**Images****Publication data including kind & date**

CN204137223

U

2015-02-04

CN204137223U

**Abstract**

(CN204137223U)

The utility model discloses a **three-wheeled scooter**. The **three-wheeled scooter** comprises a pedal, a front wheel device, a rear wheel, a rudder stock and rudder handles. The front wheel device comprises two front wheels, and further comprises a shaft rod and a front wheel frame with a shaft hole in the center, bearings are arranged above and below the shaft hole, a torsion spring and a sleeve cap are arranged above the top bearing, the shaft rod is sleeved with the bottom bearing, the shaft hole, the top bearing, the torsion spring, the sleeve cap and the pedal, the middle segment of the rod body of the shaft rod is thicker than the upper segment and the lower segment of the rod body, the upper segment and the lower segment of the rod body are threaded rods, a top nut is screwed to the upper end of the upper segment of the rod body, a bottom nut is screwed to the lower end of the lower segment of the rod body, the bottom bearing is clamped between the bottom nut and a front wheel frame, the top bearing is clamped between the middle segment of the rod body and the front wheel frame, the middle segment of the rod body is sleeved with the torsion spring, the torsion spring is clamped between the sleeve cap and the top bearing, the top face of the sleeve cap is clamped between the middle segment of the rod body and the front end of the pedal, the top nut is pressed on the top surface of the front end of the pedal, the upper end of the torsion spring is inserted in the sleeve cap, the lower end of the torsion spring is inserted in the front wheel frame, and the

initial angle of the axis of the front wheel frame is fixed to be parallel to the axis of the rear wheel through the torsion spring. The **three-wheeled scooter** has the function that the rudder handles can automatically return to be in the forwarding direction in the natural state so that the **three-wheeled scooter** can be conveniently stored.

Family 47/100 - FAMPAT - ©Questel

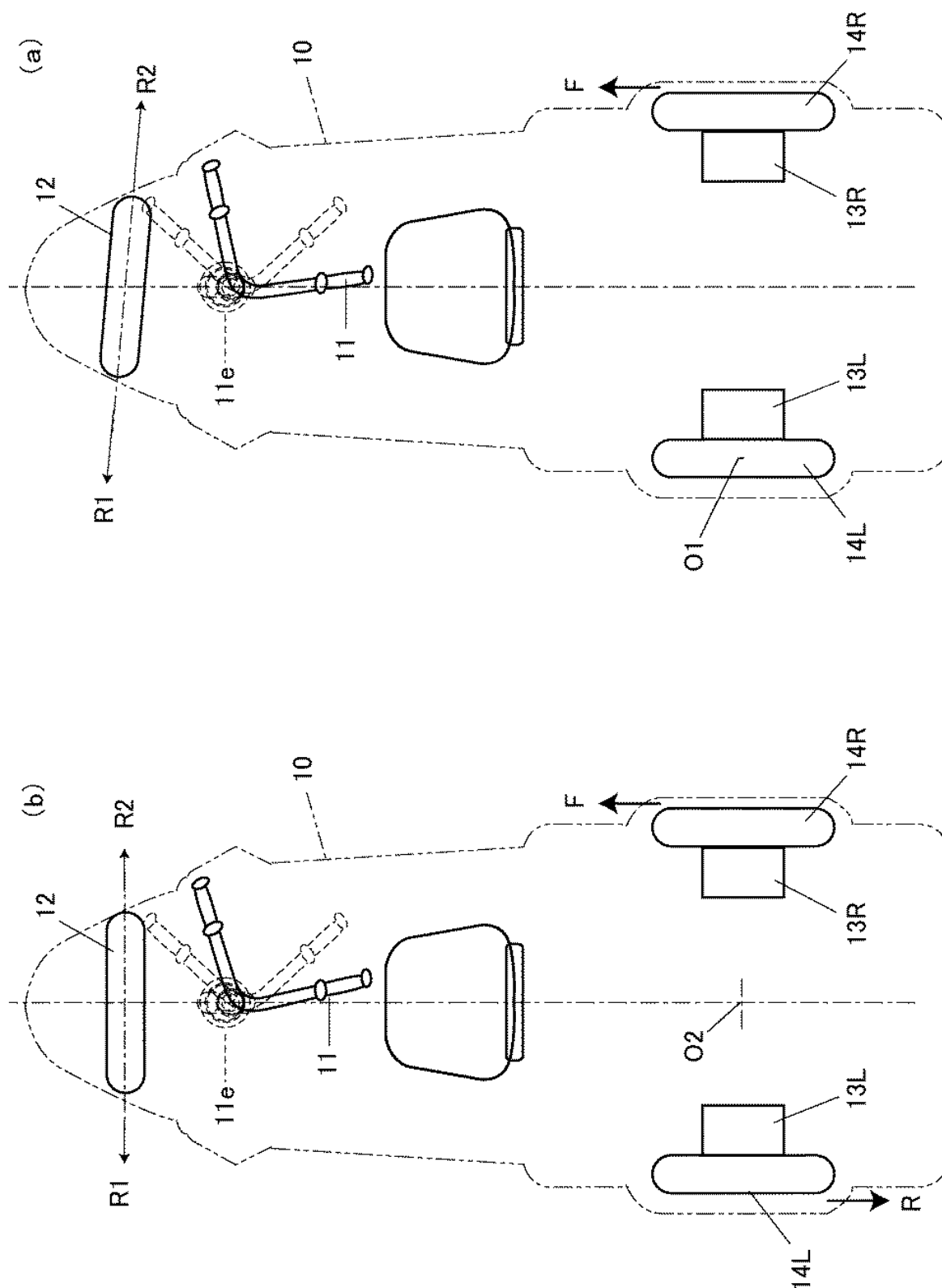
Title

(JP2009248887)

Three-wheeled motorcycle

Images

P0287-06

**Publication data including kind & date**[JP2009248887](#)

A 2009-10-29

JP2009248887

[JP5202078](#)

B2 2013-02-22

JP5202078

**Abstract**

(JP5202078)

PROBLEM TO BE SOLVED: To provide a **three-wheeled** motorcycle having an enhanced handlebar operability on turning at a low speed, allowing loading of large baggage.

SOLUTION: The **three-wheeled** motorcycle is provided with a right-left pair of driving means 13L for respectively driving a right-left pair of rear wheels 14L, a steering angle detection means for detecting a steering angle of handlebars 11, a control part and a rotation angle increase mechanism 11e for turning a rudder shaft by increasing the turning angle of a handlebar shaft turning with the handlebars. In the case that the steering angle of the handlebars detected by the steering angle detection means is within a predetermined angle while a vehicle body 10 is travelling or turning, the control part drives the right-left pair of rear wheels 14L, 14R by the driving means 13L, 13R in a normal mode rotating both the wheels normally or reversely. In the case that the handlebar steering angle detected by the steering angle detection mean exceeds the predetermined angle, the control part drives in a turning mode in which the rear wheel 14L of the right-left pair of rear wheels to which the handlebars is reversely rotated and the other rear wheel 14R is normally rotated.

COPYRIGHT: (C)2010,JPO&INPIT

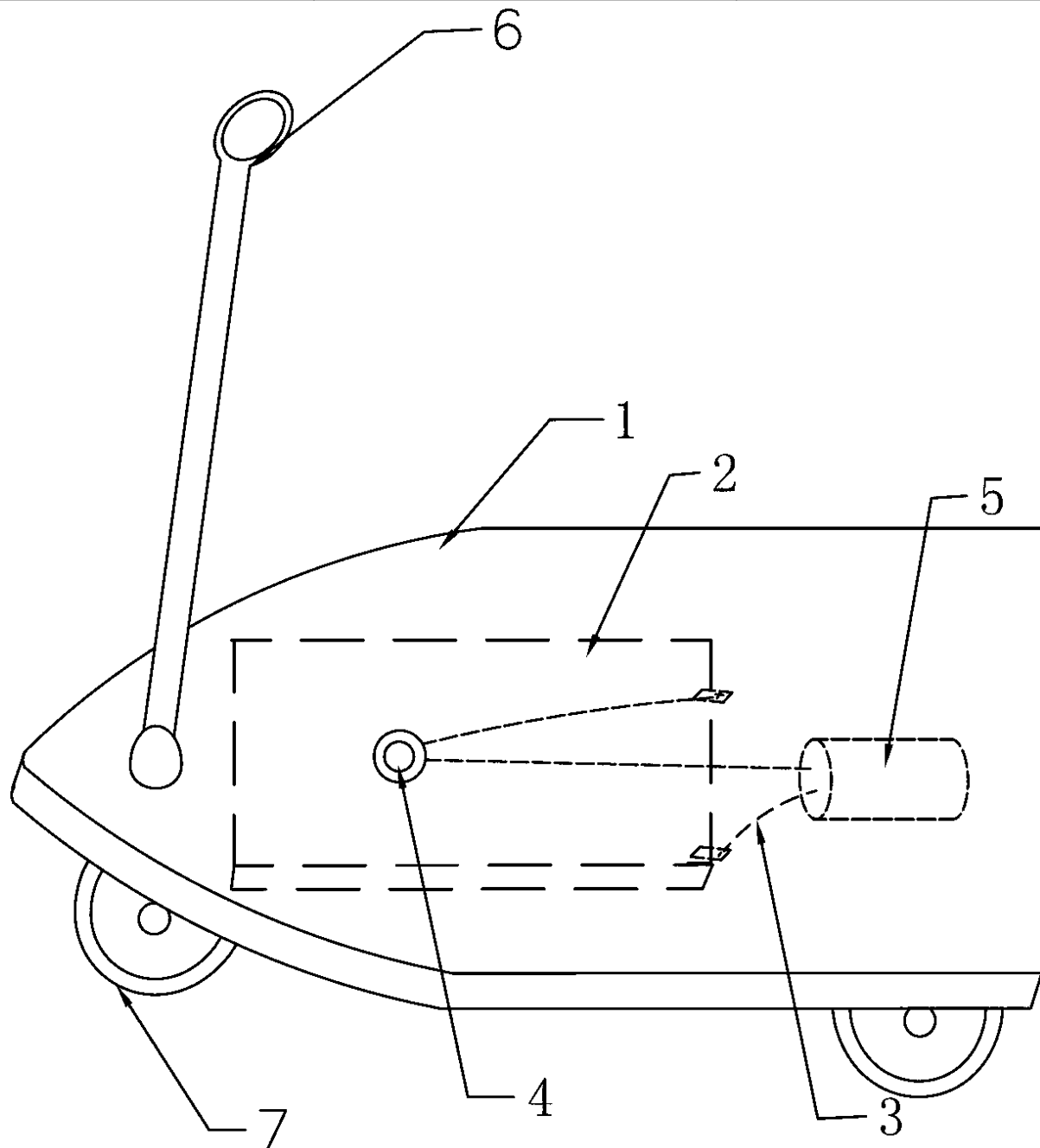
Family 48/100 - FAMPAT - ©Questel

Title

(CN202716982U)

Electric **three-wheeled scooter**

Images

**Publication data including kind & date**

CN202716982

U

2013-02-06

CN202716982U

**Abstract**

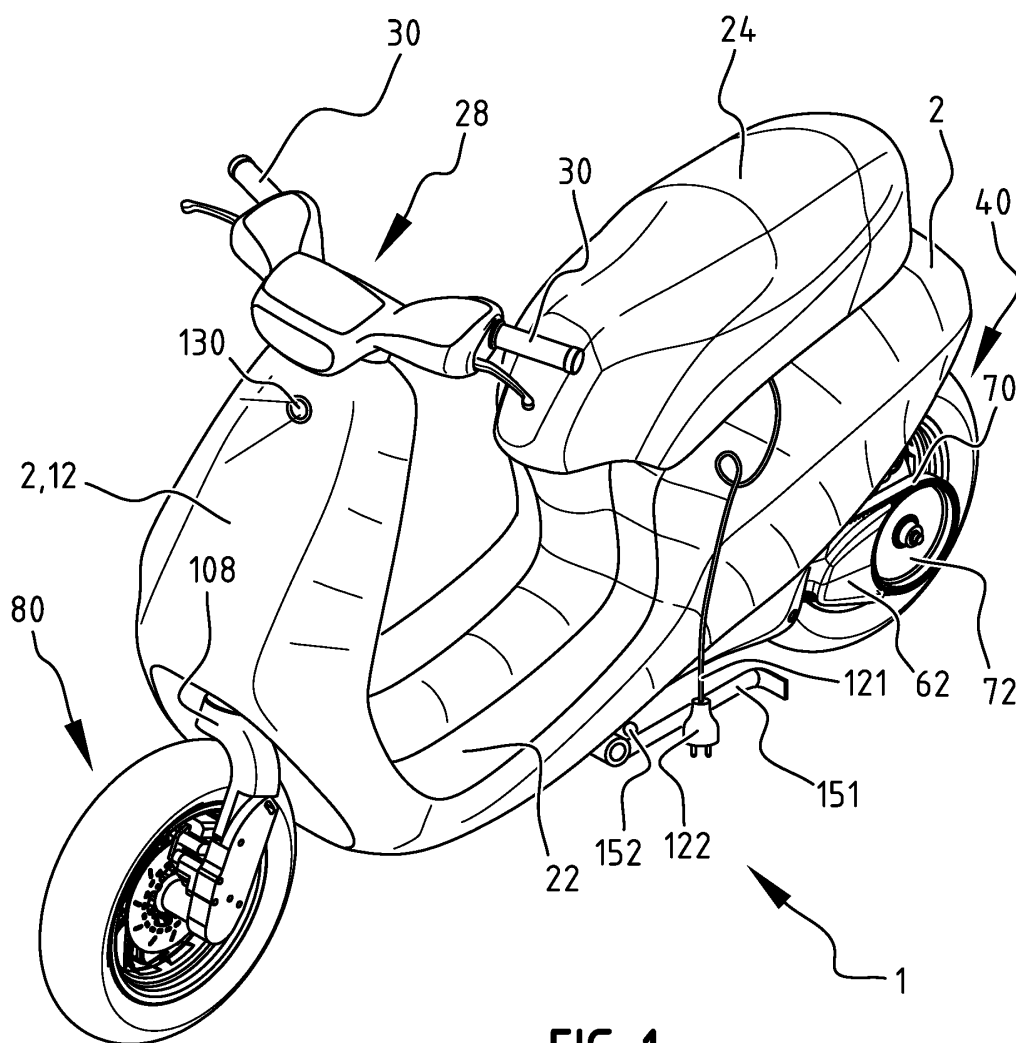
(CN202716982U)

The utility model discloses an electric **three-wheeled scooter**, and belongs to an entertainment and fitness product. The **scooter** comprises a plate body and rollers; two side edges of the front part of the plate body are in symmetrical arc shapes, and the two side edges are converged into a cusp at the front part of the plate body; a direction control rod is arranged in back of the cusp; the rear part of the plate body is oblong, a lithium battery is arranged in the plate body, the lithium battery is connected with a switch and a motor through leads, and the switch is positioned on the upper surface of the front part of the plate body; and a front roller is arranged at the front end at the bottom of the plate body, the direction control rod is connected with the front roller, a rear roller is arranged on each of the left and the right of the rear end of the plate body, and the motor is connected with one rear roller. The electric **three-wheeled scooter** advances by means of own power, does not require continuous manual rocking, and is suitable for the uneven ground.

Family 49/100 - FAMPAT - ©Questel

Title

(WO201856819)

Scooter**Images****FIG. 1****Publication data including kind & date**

WO2018/056819	A2	2018-03-29	WO201856819
WO2018/056819	A3	2018-07-26	WO201856819
WO2018/056819	A8	2018-08-30	WO201856819

**Abstract**

(WO201856819)

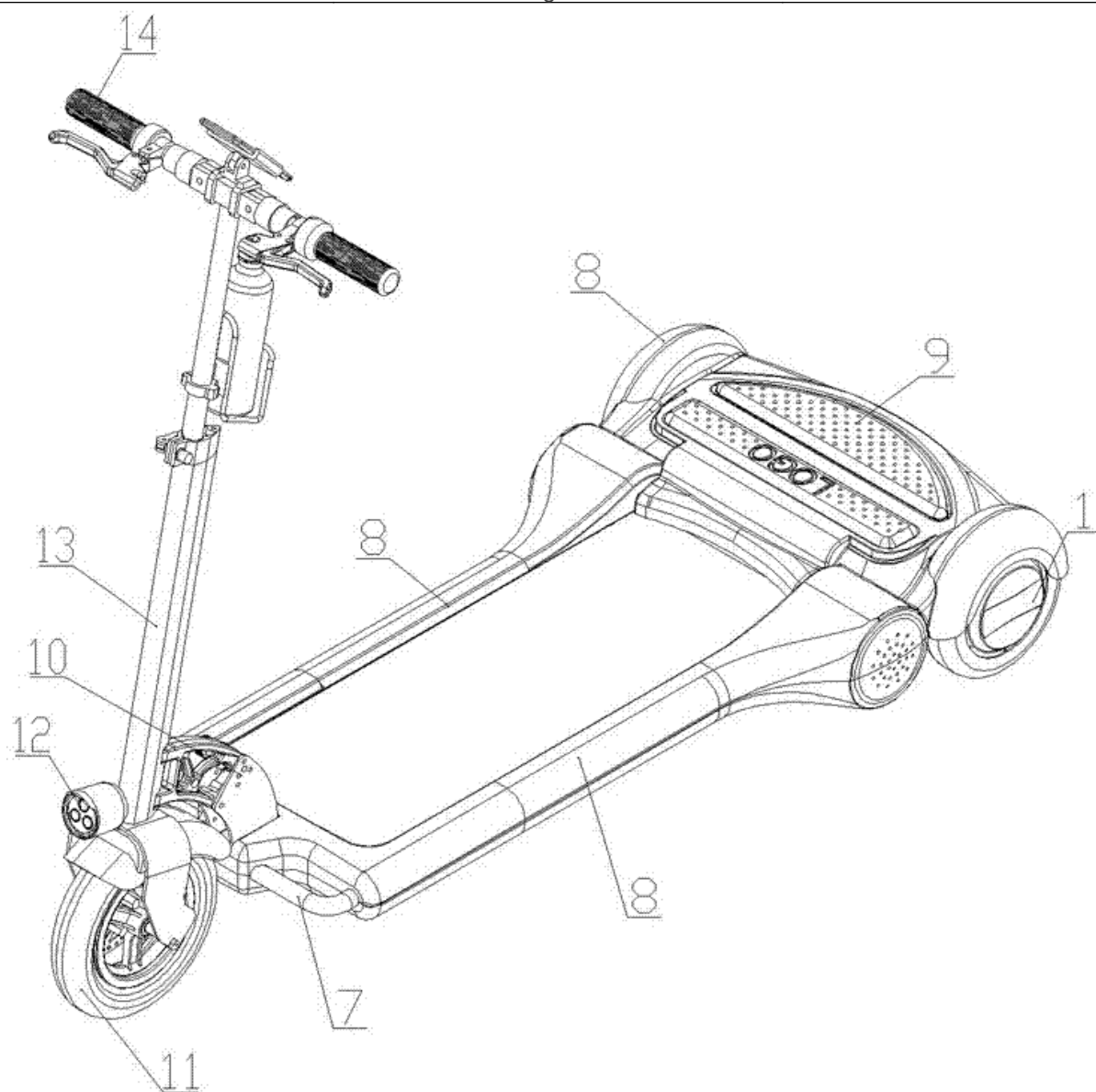
The present invention relates to a **scooter**. The **scooter** may have a diversity of sensors to adapt **scooter** characteristics to any one or more than one of safety aspects, and **scooter**, environmental or driver states. **Scooter** characteristics susceptible to adaptation comprise: throttle response; motor torque; motor speed; speed; maximum current drawn from energy storage system; braking characteristics, such as distribution, maximum braking power, anti blocking system parameters or braking; adjusting vehicle dynamics, such suspension parameters (stiffness, damping coefficient).

Family 50/100 - FAMPAT - ©Questel

Title

(CN207510610U)

Take three -wheeled **scooter** of function of running**Images**

**Publication data including kind & date**

CN207510610

U 2018-06-19 CN207510610U

**Abstract**

(CN207510610U)

The utility model discloses a take three -wheeled **scooter** of function of running, including the handlebar stand, brake equipment, be provided with speed regulation steering handle on the handlebar stand, handlebar stand lower extreme is provided with the front wheel, but handlebar stand lower part is moved articulatedly with shifting beam horizontal rotary drum, the shifting beam through pivot activity hinge joint on the connecting plate, still be equipped with the fitting pin on the connecting plate, connecting plate fixed mounting is on the bottom plate, treadmill frame front end is located to the bottom plate, install the handle on treadmill frame and the bottom plate, be provided with the area of running in the treadmill frame, run the area by locating the drive of the left brushless motor of treadmill framework backend, treadmill framework backend right side and the coaxial tachometer that is equipped with of brushless motor, the tailstock is installed to treadmill frame tail end, the tailstock both sides are equipped with the fixing base, the fixing base is used for the shaft of fixed mounting in - wheel motor integration wheel, the dynamic lithium battery pack of tailstock bottom demountable installation, the tailstock up end is equipped with the vector control ware.

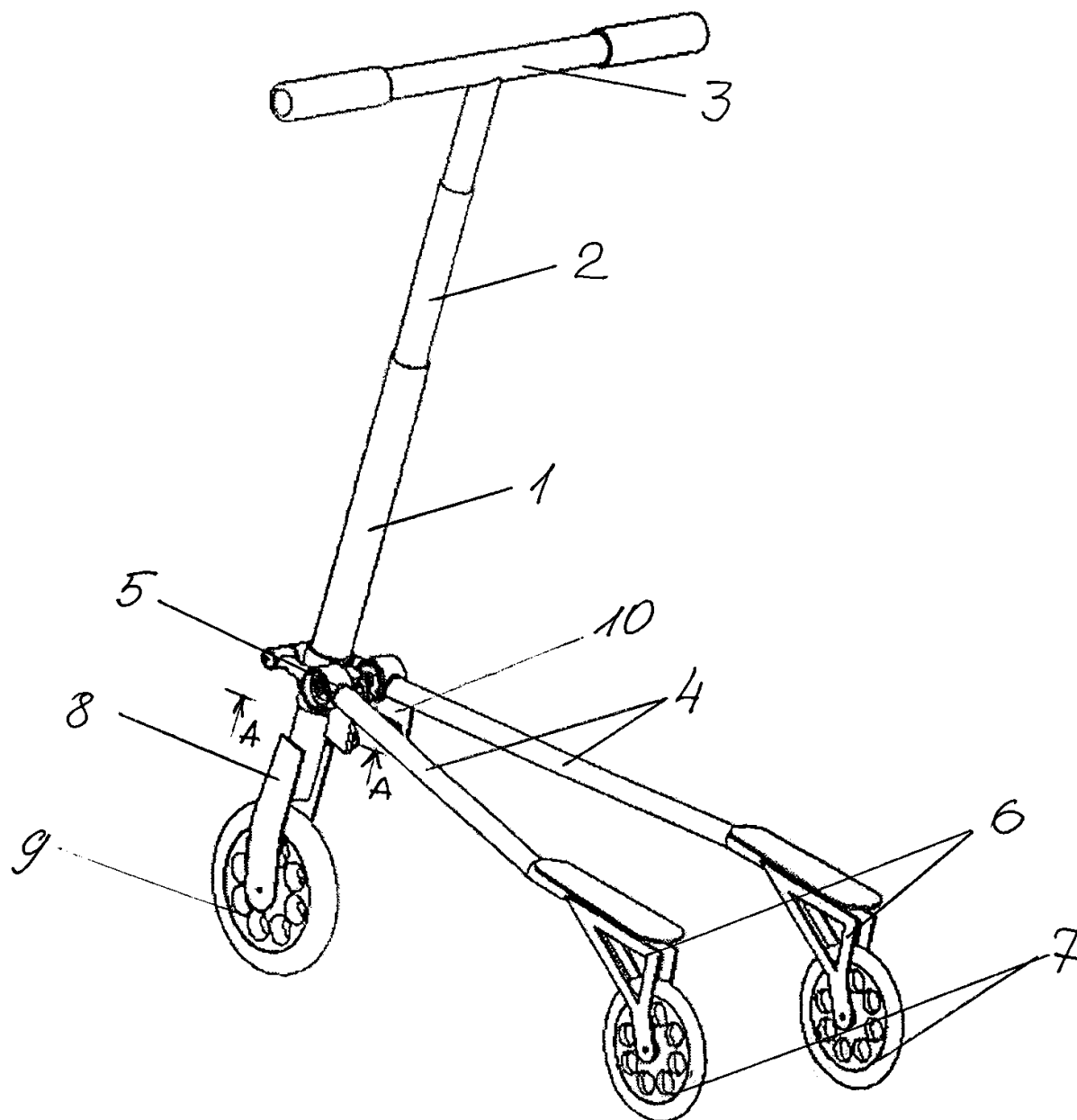
Family 51/100 - FAMPAT - ©Questel

Title

(RU-182175)

Three-wheeled kick **scooter**

Images



Фиг. 1

Publication data including kind & date

RU182175

U1 2018-08-06

RU-182175



Abstract

(RU-182175)

Useful model relates to the region of the devices, intended for the actuating by the muscular force of man, in particular to the individual motorless vehicles, in which any mechanism for guaranteeing the motion is absent, motion is accomplished by an exceptionally physical effort of man. Three-wheeled kick scooter contains housing, steering column, control, front fork with the steering wheel and two beams, each of which, on the one hand is hinged connected with the housing by moving element, according to useful model moving element is supplied with the additional clamp, the flexural center of which is connected with the housing of kick scooter, and ends are connected with each of the beams. 2 illus.

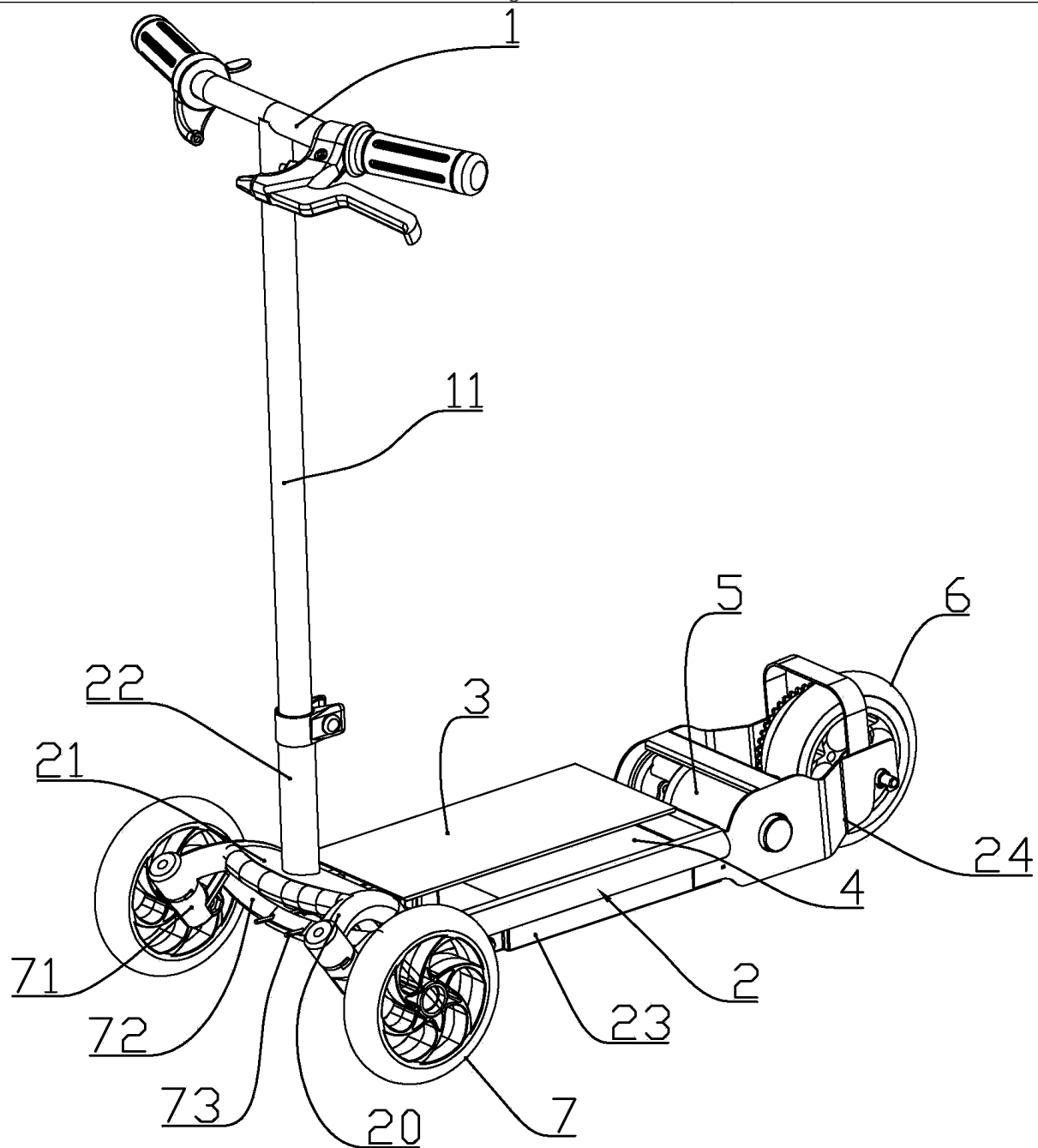
Family 52/100 - FAMPAT - ©Questel

Title

(CN205034272U)

Three -wheeled electric scooter

Images



Publication data including kind & date

[CN205034272](#)

U 2016-02-17 CN205034272U

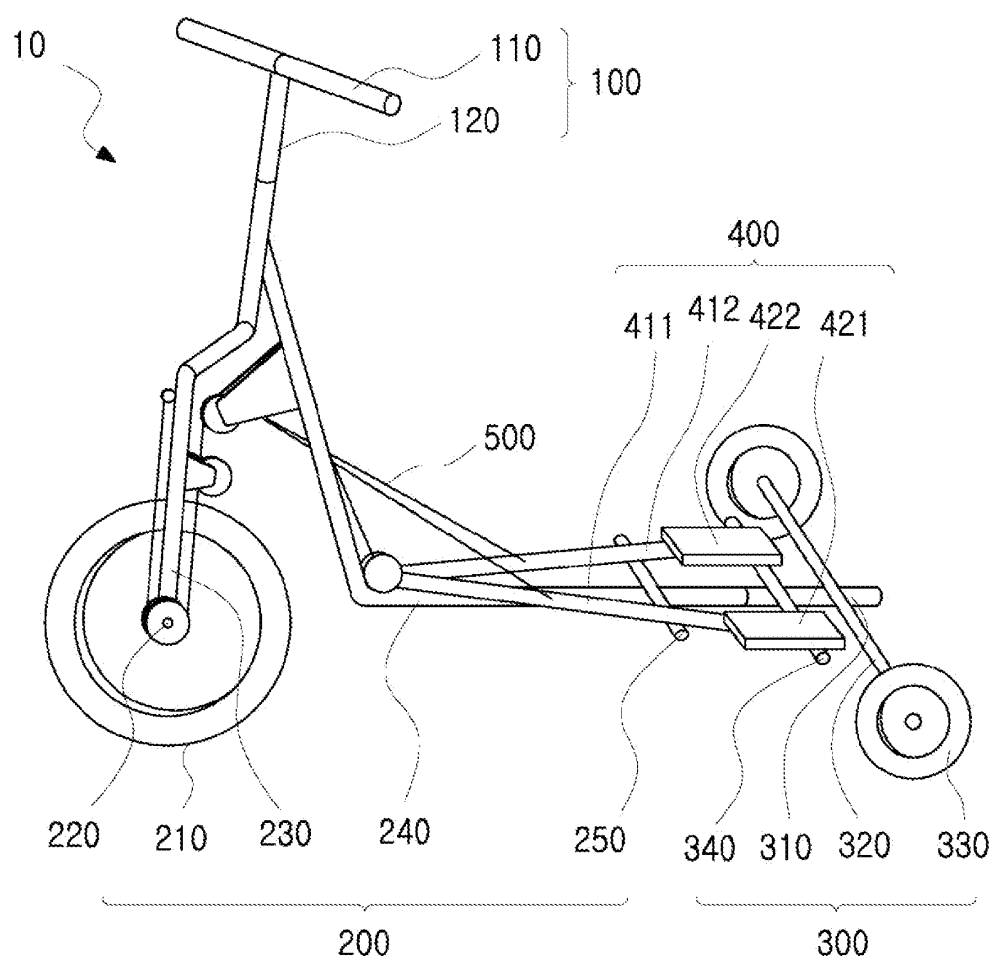


Abstract

(CN205034272U)

The utility model discloses a three -wheeled electric **scooter**, including the frame, install the locomotive in frame front portion top, install two front wheels at the frame front end to and install a rear wheel at frame the back -end, two stay tubes in the backup pad both sides are connected including a backup pad to the frame, connect two back wheel seats two stay tube rear ends respectively, link to each other through the more than one connecting plate between two back wheel seats, locomotive pole of locomotive below fixedly connected with, locomotive connecting pipe of backup pad top fixedly connected with, the locomotive pole can be dismantled with the locomotive connecting pipe and be connected, the front wheel matches through preceding wheel seat, gangbar and torsional spring and connects at the frame anteriorly, and through centrobaric laterally offset control front -wheel steer, and the relative frame of locomotive is fixed, and to ride in -process stability better for electric **scooter** like this. Motor, rear wheel are installed respectively on the wheel seat of back, convenient assembling.

(WO2016108354)

Three-wheeled boarding apparatus capable of tilting**Images****Publication data including kind & date**

WO2016108354	A1	2016-07-07	WO2016108354
US20170313375	A1	2017-11-02	US20170313375
CN207106752	U	2018-03-16	CN207106752U
JP3215391	U	2018-03-22	JP3215391U

**Abstract**

(WO2016108354)

The present invention relates to a **three-wheeled** boarding apparatus capable of tilting, which allows a user to drive driving wheels by pushing on a pedal unit while standing up, and allows a certain part to tilt when the user travels around a corner. The **three-wheeled** boarding apparatus capable of tilting according to one embodiment of the present invention comprises: a steering wheel control unit for controlling steering and tilting; a tilting main body unit which has one driving wheel placed at the bottom of the steering wheel control unit, and a tilting body unit extended from the steering wheel control unit toward coupled driving wheels; a fixed main frame unit combined with the end of the tilting body, to which the driving wheels are rotatably coupled, and which has a first supporting bar installed at a predetermined position; and a pair of pedal units of which one end is combined with the tilting body unit, and the other end is arranged on the first supporting bar when the apparatus rotates downwardly, and which provides driving power to the driving wheel through a power conveying member. In the case that the steering wheel control unit is tilted to one side, the fixed main frame unit is not tilted, but the tilting main body unit and the pedal unit can be tilted together. The **three-wheeled** boarding apparatus capable of tilting according to one embodiment of the present invention provides an effect of being capable of driving in a stable posture, not tilted to one side, when the pedals are pushed with both feet, and in the case of traveling around a corner, providing stable cornering

due to the tilting of the tilting body unit being carried out according to a tilting control of the steering wheel control unit.

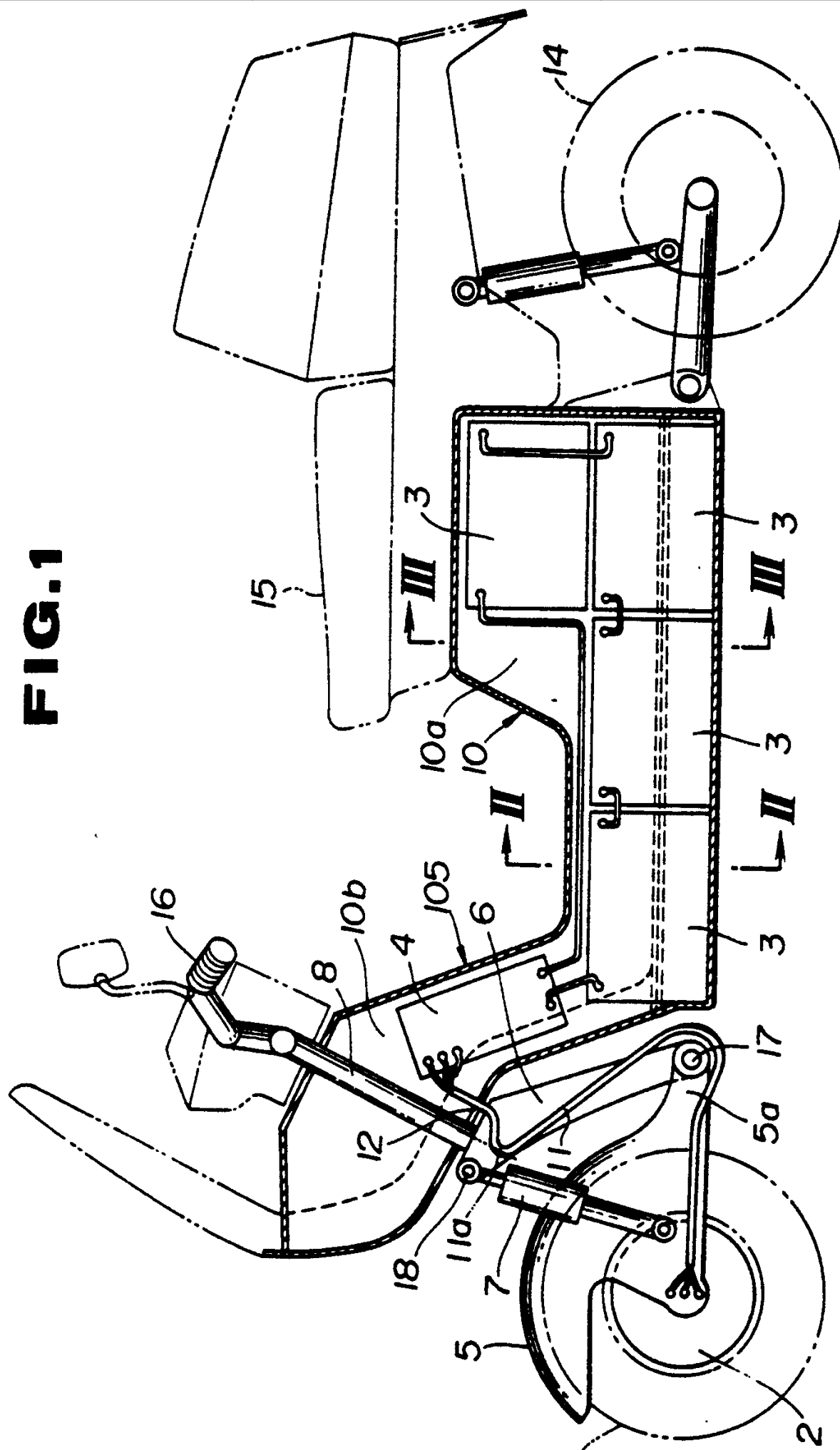
Family 54/100 - FAMPAT - ©Questel

Title

(EP-444975)

Scooter body and front-wheel drive type electromotive **scooter**.

Images

FIG.1

Publication data including kind & date

EP0444975	A1	1991-09-04	EP-444975
JPH03224887	A	1991-10-03	JP03224887
US5207288	A	1993-05-04	US5207288
EP0444975	B1	1994-11-02	EP-444975
DE69104868	D1	1994-12-08	DE69104868
ES2066376	T3	1995-03-01	ES2066376
DE69104868	T2	1995-05-18	DE69104868

**Abstract**

(EP-444975)

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).

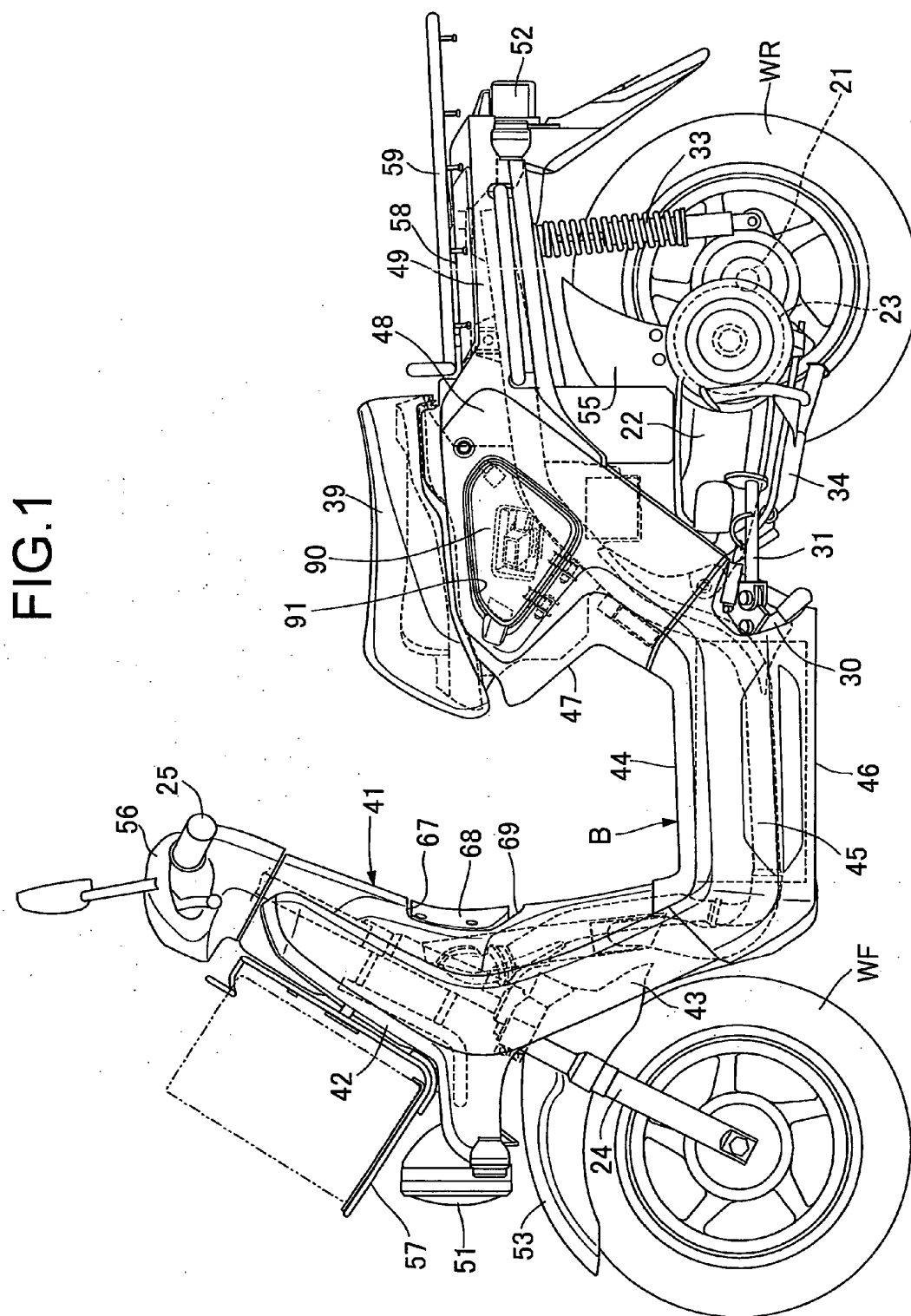
Family 55/100 - FAMPAT - ©Questel

Title

(EP2479091)

Electrically powered two- or **three-wheeled** vehicle with a special wiring structure

Images


Publication data including kind & date

JPWO2011033613	A1	2011-03-24	JP2011033613W
WO2011033613	A1	2011-03-24	WO2011033613
TW201116442	A	2011-05-16	TW201116442
VN30219	A	2012-06-25	VN--30219
EP2479091	A1	2012-07-25	EP2479091
CN102612461	A	2012-07-25	CN102612461
EP2479091	A4	2013-03-06	EP2479091
JP5220927	B2	2013-03-15	JP5220927
IN3214/CHENP/2012	A	2013-08-02	IN2012CN03214
TWI411551	B	2013-10-11	TWI411551
CN102612461			



	B	2015-04-08	CN102612461B
VN0014446	B	2015-09-25	VN--14446B
EP2479091	B1	2016-04-20	EP2479091
ES2570157	T3	2016-05-17	ES2570157



Abstract

(EP2479091)

In an electric two/**three-wheeled** vehicle, an electric motor exerting power for driving a rear wheel is housed in a swing arm supported in a swingable manner to pivot plates, which are provided respectively in lower portions of a pair of left and right rear frames, with a support shaft therebetween; a high-voltage battery supplying an electric power to the electric motor is supported to a body frame and arranged forward of the support shaft; the high-voltage battery is connected via a high-voltage wiring to a power drive unit mounted on the swing arm. The high-voltage wiring (86), which extends obliquely upwardly and forwardly toward one rear frame (29) in a vehicle width direction out of the pair of left and right rear frames (29) from an upper surface of the power drive unit (71), extends rearwardly and upwardly along an inner side of the one rear frame (29) in the vehicle width direction and then further extends toward the high-voltage battery (36) located forward thereof. Accordingly, it is possible to avoid a bending force to be applied to the high-voltage wiring and improve an external appearance by making the high-voltage wiring less visible from outside of a vehicle body.

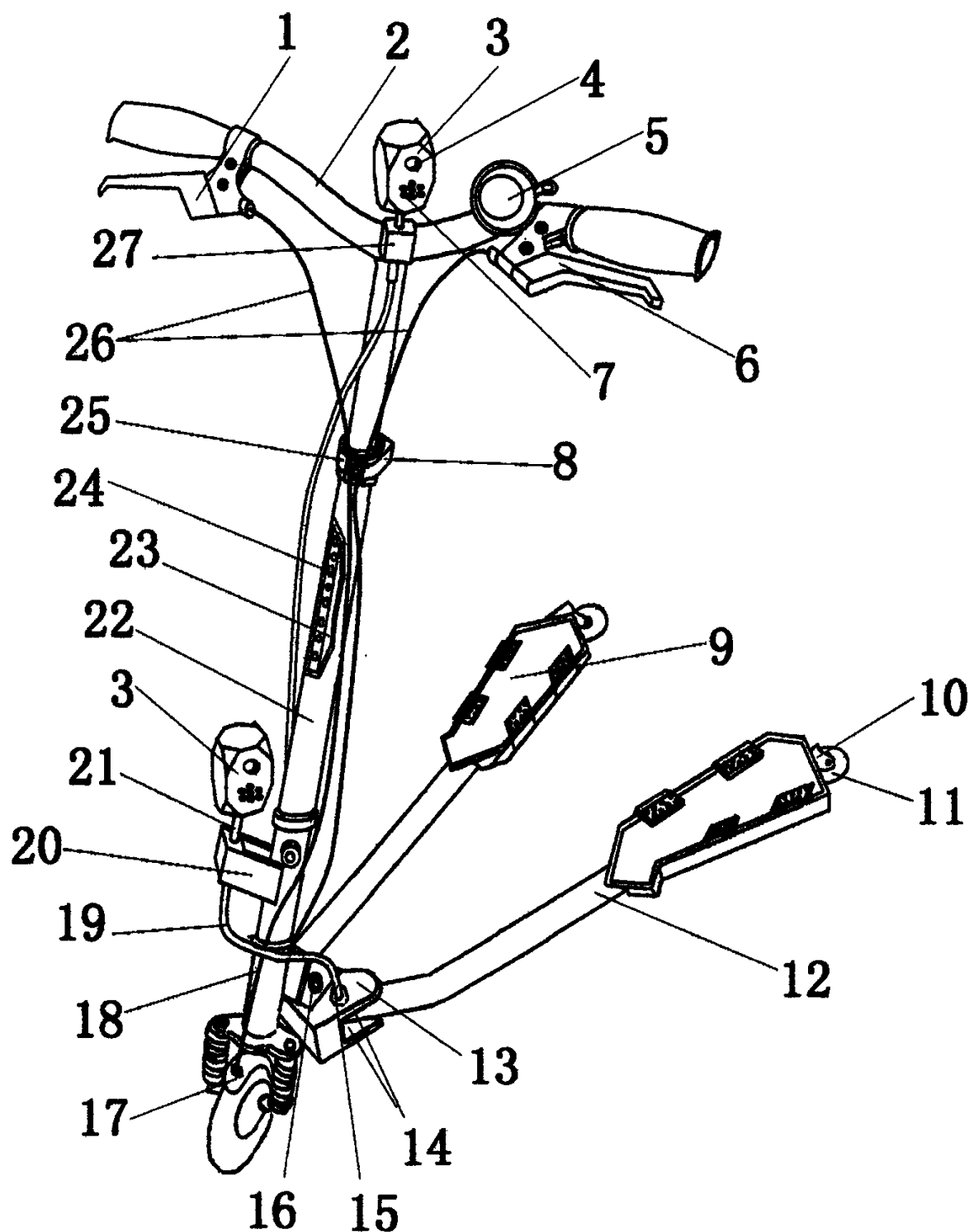
Family 56/100 - FAMPAT - ©Questel

Title

(CN204472998U)

Color-ball music **three-wheeled** frog kick **scooter**

Images



Publication data including kind & date

CN204472998

U

2015-07-15

CN204472998U



Abstract

(CN204472998U)

Disclosed is a color-ball music **three-wheeled** frog kick **scooter**. The color-ball music **three-wheeled** frog kick **scooter** comprises a handlebar, a straight bar, a jaw, a connector, pedal bars, a gear assembly, pedals, rear wheels, a bell, a front brake lever, a rear brake lever, brake cables on the front brake lever and the rear brake lever, a latch, sleeves, a transparent tube, a front wheel, a front braking vane, a cover plate, clamp plates, a rotating shaft in the clamp plates, gear plates, pedals, wheel carriers and braking vane, wherein the bell, the front brake lever and the rear brake lever are arranged on the handlebar, the latch, the sleeves, the transparent tube and the jaw are arranged on the straight bar, the front wheel, the front braking vane and the connector are arranged on the jaw, the cover plate and the clamp plates are connected with the connector, the gear plates and the pedals are arranged on the pedal bars, the wheel carriers are

[JP2009040382](#)

A 2009-02-26 JP2009040382

Abstract

(JP2009040382)

PROBLEM TO BE SOLVED: To provide a two-wheel and three-wheel motorcycles or a **three wheeled** car with a prime motor which realizes stable traveling while loading a surfboard, fishing tool and other freights thereon, and a roof carrier used for the same.

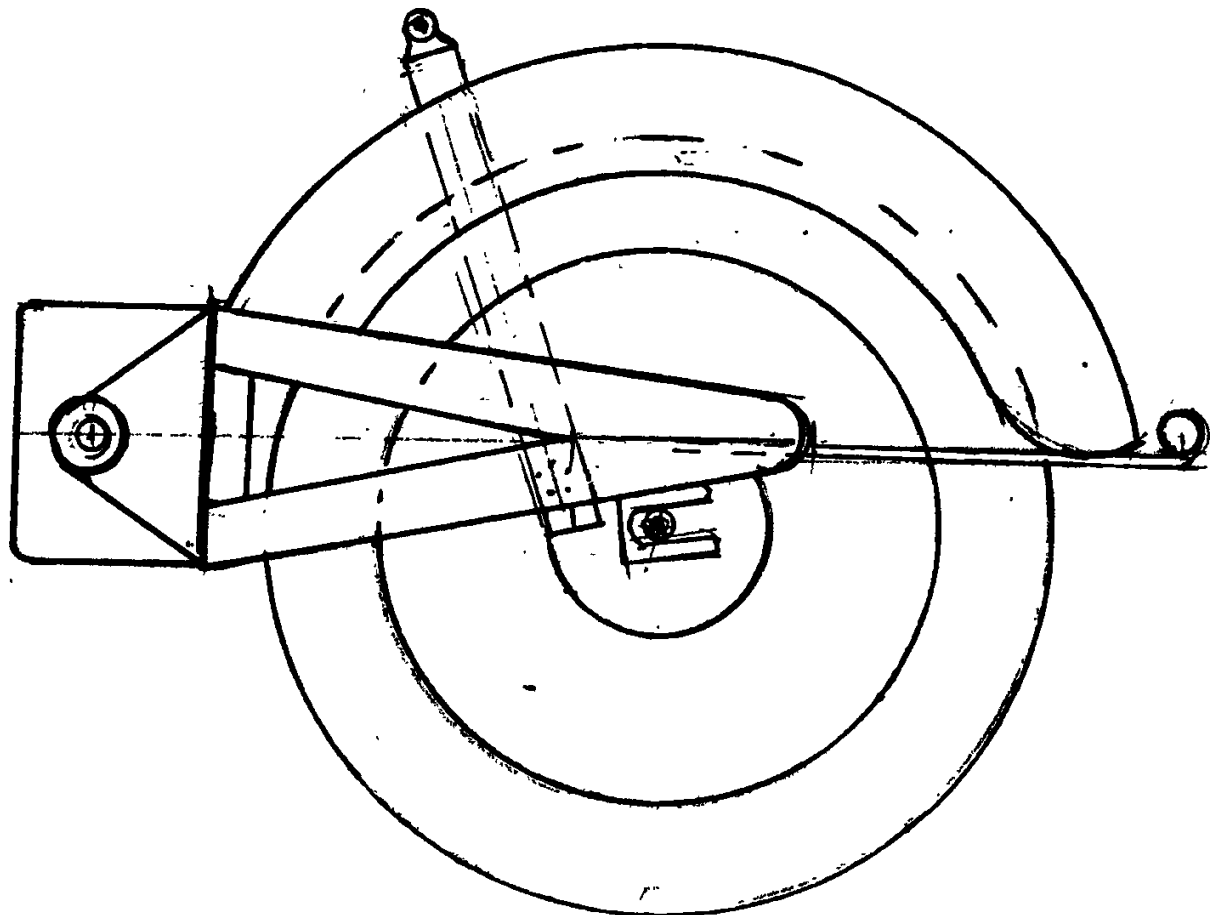
SOLUTION: A two-wheel and three-wheel motorcycles or a **three wheeled** car with a prime motor is provided with a front wheel 11 made of one wheel and taken as a steering wheel, rear wheels 12, 13 made of one or two wheels and taken as drive wheels, a body frame 14 for supporting the front wheel and rear wheels, a seating part 15 mounted in the body frame, a steering means 16 and a drive means 17, and further equipped with a roof rail 110 fixed to respective appropriate positions in the body frame at regular intervals in a width direction of the body frame and extended to the rear through overhead from the front of a seated person and with carrier bodies 120 fixed at regular intervals in a longitudinal direction of the roof rail and made of two or more rod-like members to which the roof rail is connected, respectively.

COPYRIGHT: (C)2009,JPO&INPIT

Family 58/100 - FAMPAT - ©Questel

Title

(CN203975112U)

Novel rear wheel suspension assembly of **three-wheeled scooter****Images****Publication data including kind & date**[CN203975112](#)

U 2014-12-03 CN203975112U

**Abstract**

(CN203975112U)

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.

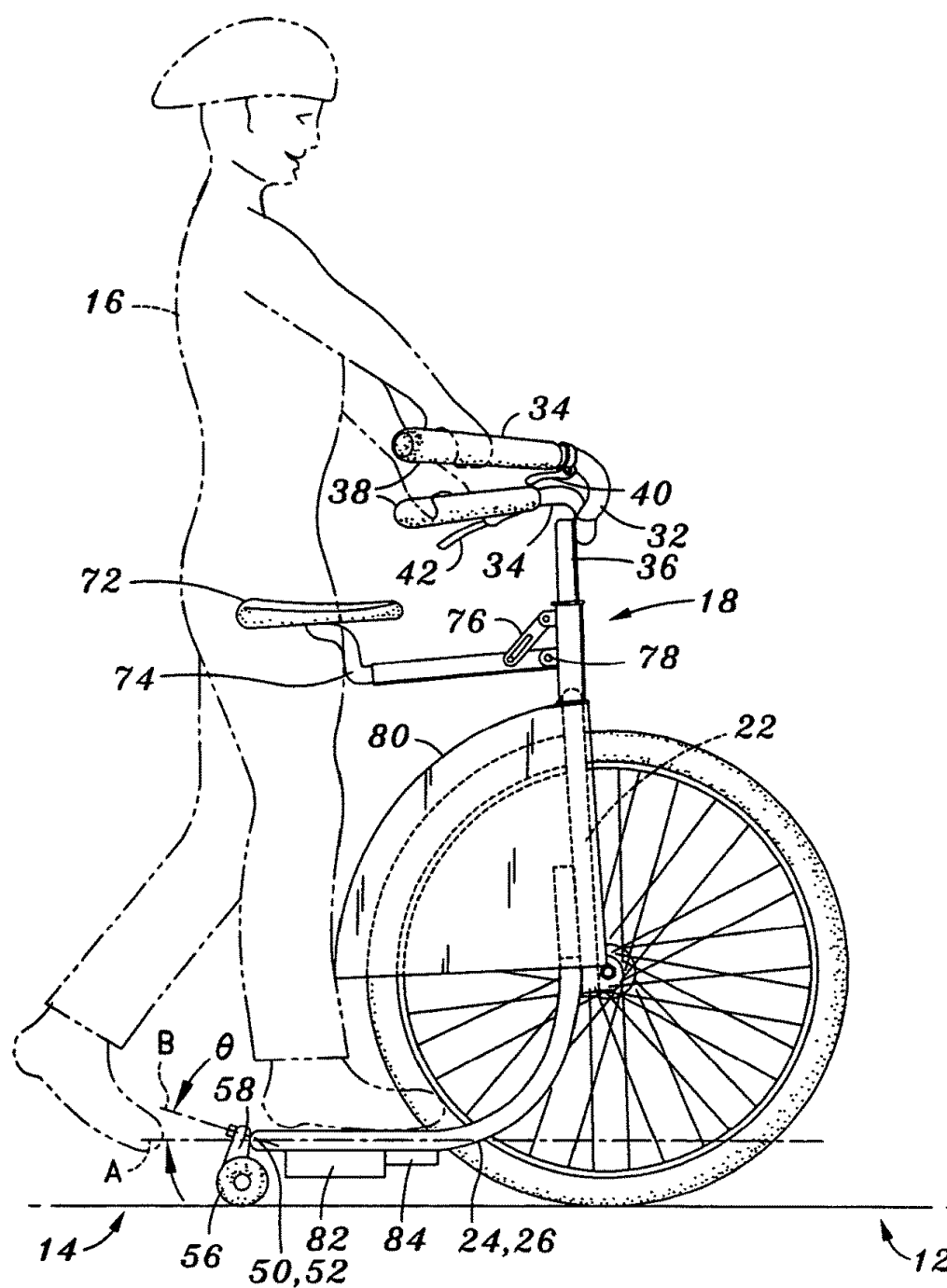
Family 59/100 - FAMPAT - ©Questel

Title

(US9937974)

Three-wheeled rear-steering scooter

Images



Publication data including kind & date

US20140054870	A1	2014-02-27	US20140054870
US20140091545	A1	2014-04-03	US20140091545
US8827296	B2	2014-09-09	US8827296



US8998226	B2	2015-04-07	US8998226				
US20150183483	A1	2015-07-02	US20150183483				
US9296443	B2	2016-03-29	US9296443				
US20160176466	A1	2016-06-23	US20160176466				
US9533728	B2	2017-01-03	US9533728				
US20170066494	A1	2017-03-09	US20170066494				
US9937974	B2	2018-04-10	US9937974				
US20180194424	A1	2018-07-12	US20180194424				
US10300976	B2	2019-05-28	US10300976				

Abstract

(US9937974)

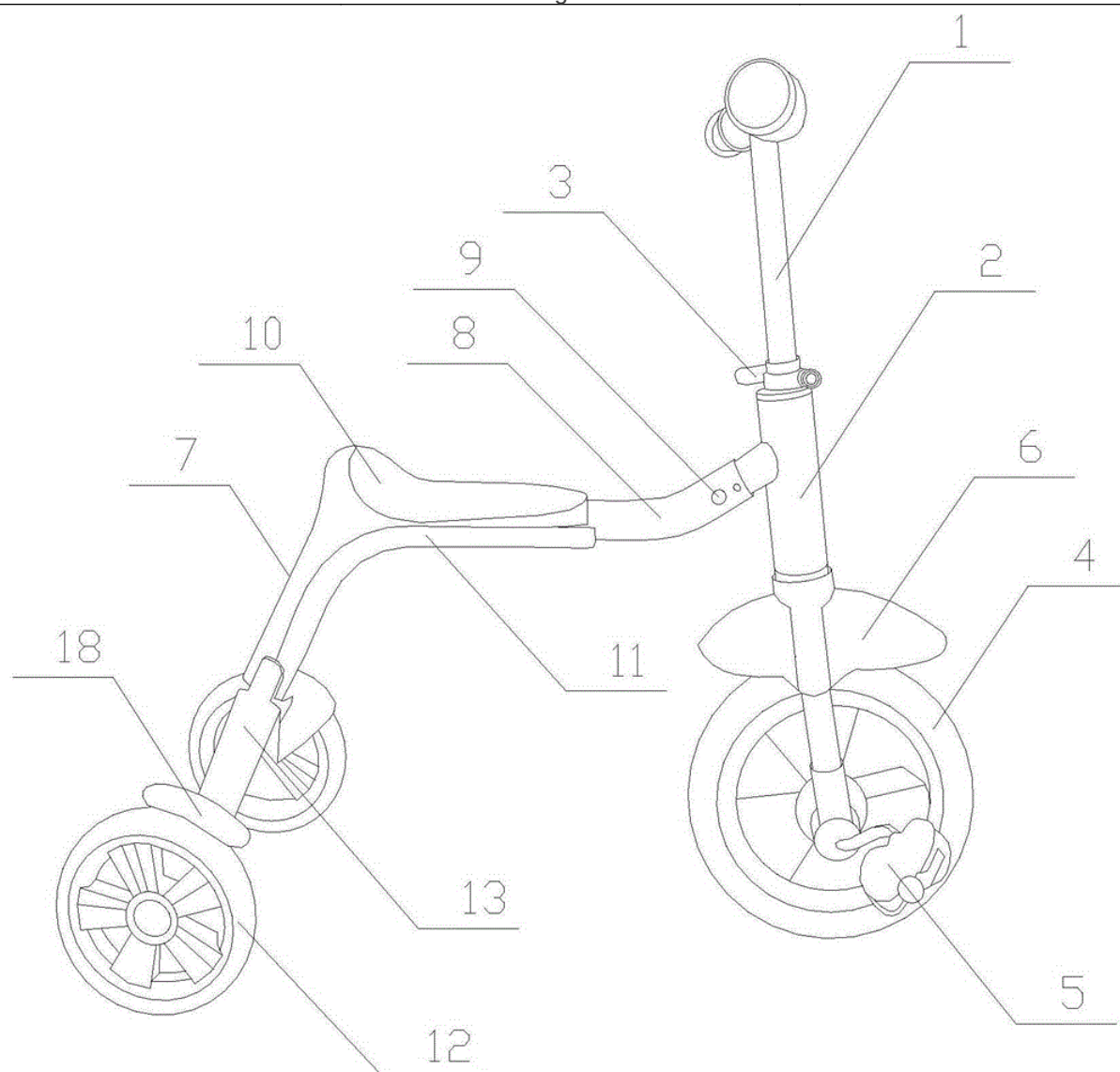
A **three wheeled scooter** comprises a chassis having forward and aft ends with a front wheel non-pivotally mounted to the forward end and a pair of rear wheels coaxially mounted to the aft end. The chassis defines a longitudinal axis and includes a support assembly and a handle assembly extending upwardly from the support assembly. The rear wheels are configured to be angularly yawable relative to the longitudinal axis between a neutral position and a yawed position. Steering of the **scooter** is thereby effectuated by angular yawing of the rear wheels relative to the longitudinal axis such as by asymmetric loading of one of opposing sides of the support assembly.

Family 60/100 - FAMPAT - ©Questel

Title

(CN205292916U)

Multi -functional children three -wheeled **scooter****Images**



Publication data including kind & date

CN205292916

U

2016-06-08

CN205292916U



Abstract

(CN205292916U)

The utility model discloses a multi-functional children three-wheeled **scooter**, it relates to the children toy car field, the one end of bedplate is passed through through playing beans fixed connection between support frame and the front wheel fixing base, wherein the bedplate comprises saddle and footboard, be connected with the right leg of car by car left side leg between the rear wheel of footboard and both sides, pass through four screw fixed connection between the one end of car left side leg and car right side leg and the bedplate, one side of car left side leg and car right side leg all is provided with the gear, and through gear intermeshing, all be provided with the fixed axle in car left side leg and the car right side leg, the top of car left side leg and car right side leg all is provided with hasp and locking plate, the one end of car left side leg and car right side leg respectively and be provided with back chock mud between the rear wheel of both sides and cover. Its structural design is reasonable, and the appearance is pleasing to the eye, and novel structure is unique, easy operation, and convenient to use, the function is diversified, and the security is high, can make tricycle and **scooter** interconversion use through the rotation, and the whole car is dual-purpose, is applicable to the children in difference stages at age.

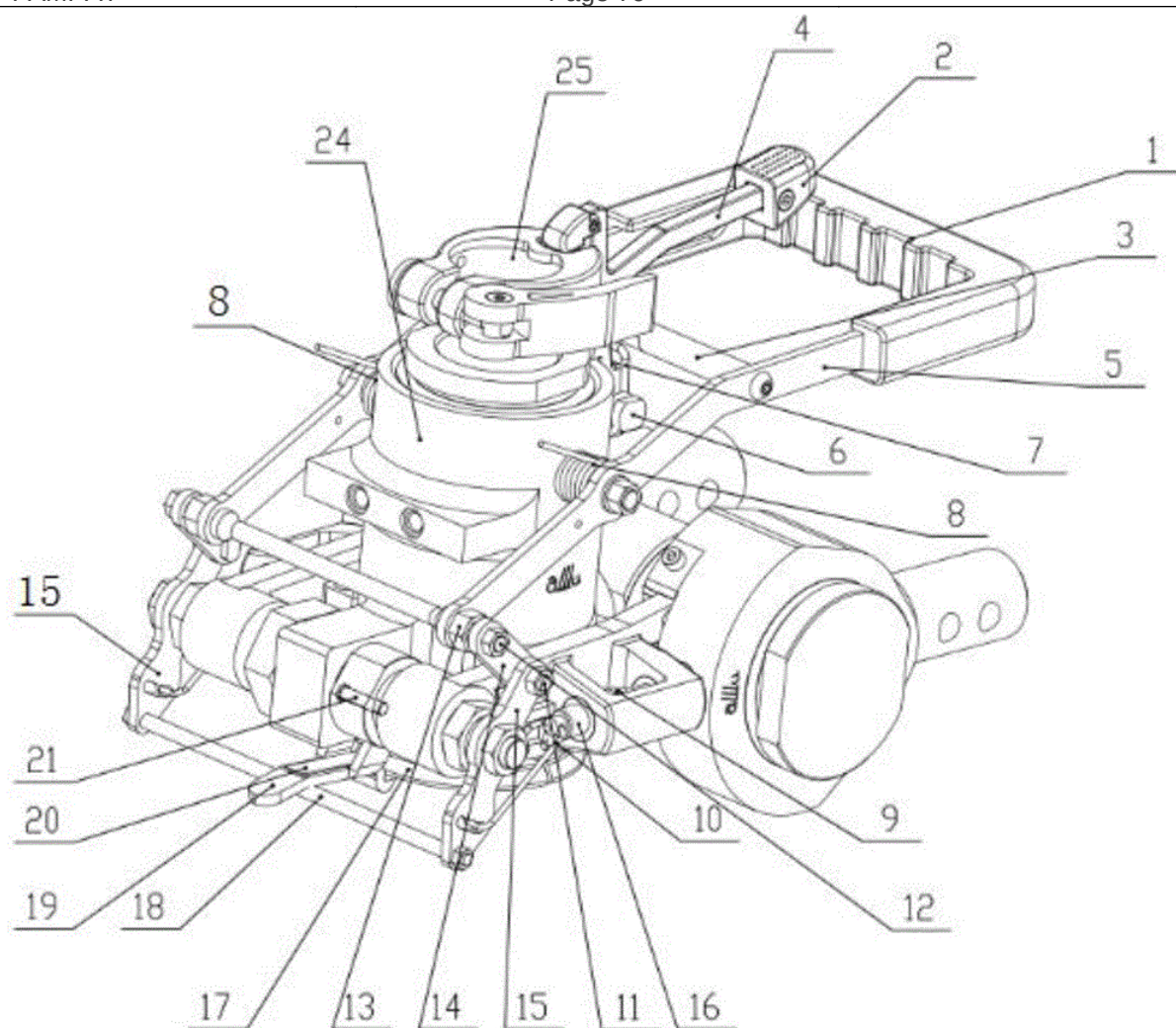
Family 61/100 - FAMPAT - ©Questel

Title

(CN106741423)

Foldable tricycle

Images



Publication data including kind & date

CN106741423	A	2017-05-31	CN106741423
CN106741423	B	2019-03-29	CN106741423B



Abstract

(CN106741423B)

The invention discloses a foldable tricycle. The foldable tricycle includes a vehicle frame structure, an unlocking structure, a brake structure and a balance system; the vehicle frame structure includes a ram horn handlebar, the bottom of the ram horn handlebar is connected with the top of a middle shaft, the bottom of the middle shaft is connected with a front fork, a motor wheel is installed on a fork hole of the bottom of the front fork, the position near the bottom of the middle shaft is sleeved with an outer sleeve, the front side of the outer sleeve is provided with a front shaft, the rear side of the outer sleeve is provided with a main shaft, the two sides of the outer sleeve are provided with swinging arm assemblies connecting the front shaft with the main shaft, the tail ends of the sides, located on the main shaft, of the swinging arm assemblies are connected with a bending pipe, the tail end of the bending pipe is connected with a petal bracket, the lower side of the petal bracket is provided with a supporting frame, and rear wheels are installed on the supporting frame. According to the foldable tricycle, a stable three-wheel triangle standing structure is adopted, especially, the vehicle frame is of a triangle structure and can stably stand in any situation, when people ride the foldable tricycle, the foldable tricycle can also stably stand without setting the speed, and the performance requirement failed to be met by a traditional **scooter** is met.

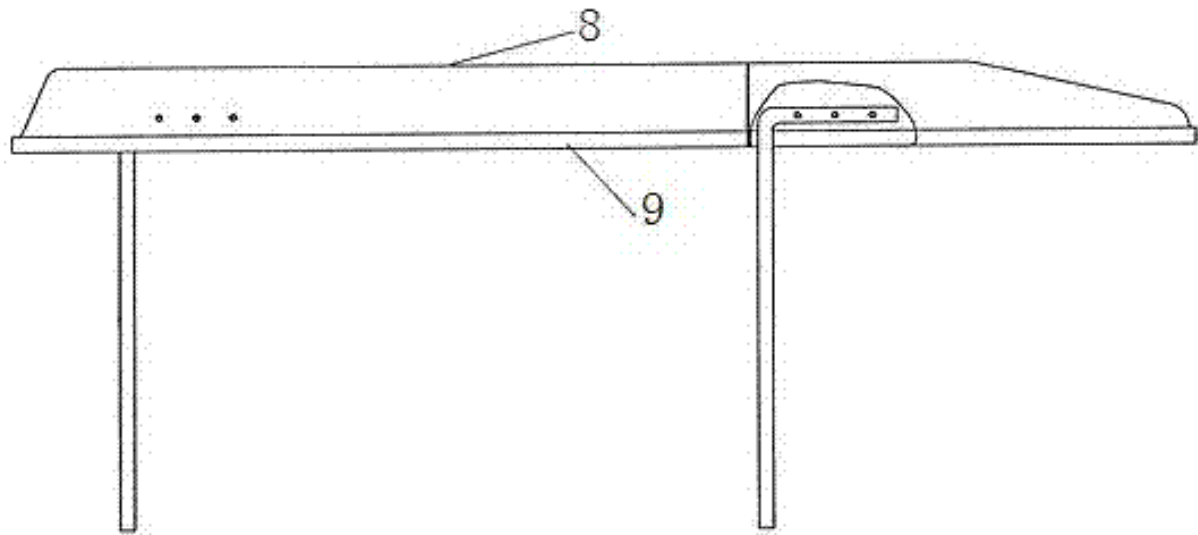
Family 62/100 - FAMPAT - ©Questel

Title

(CN107380314)

Motorcycle hood structure of **three-wheeled** electric motorcycle

Images

**Publication data including kind & date**[CN107380314](#)

A

2017-11-24

CN107380314

**Abstract**

(CN107380314)

The invention discloses a motorcycle hood structure of a **three-wheeled** electric motorcycle. A motorcycle hood comprises a front motorcycle hood and a rear motorcycle hood, wherein the top of a rear part compartment of the **three-wheeled** electric motorcycle is covered by the motorcycle hood; and the front motorcycle hood and the rear motorcycle hood are movably mounted in an inserting manner, and are fixed to an edge frame of the rear part compartment through a supporting frame. The motorcycle hood structure disclosed by the invention is simple in structure, convenient to assemble, and high in mounting speed; and in summer, the motorcycle hood is ventilated and cool, in winter, the purposes of being airtight and keeping warm can also be achieved, so that the comfortableness of transporting or riding is improved.

Family 63/100 - FAMPAT - ©Questel

Title

(EP1666346)

Method for replacing the front wheels of a **three-wheeled** vehicle**Images**

IN3175/DEL/2005

A

2009-07-31

IN2005DE03175

**Abstract**

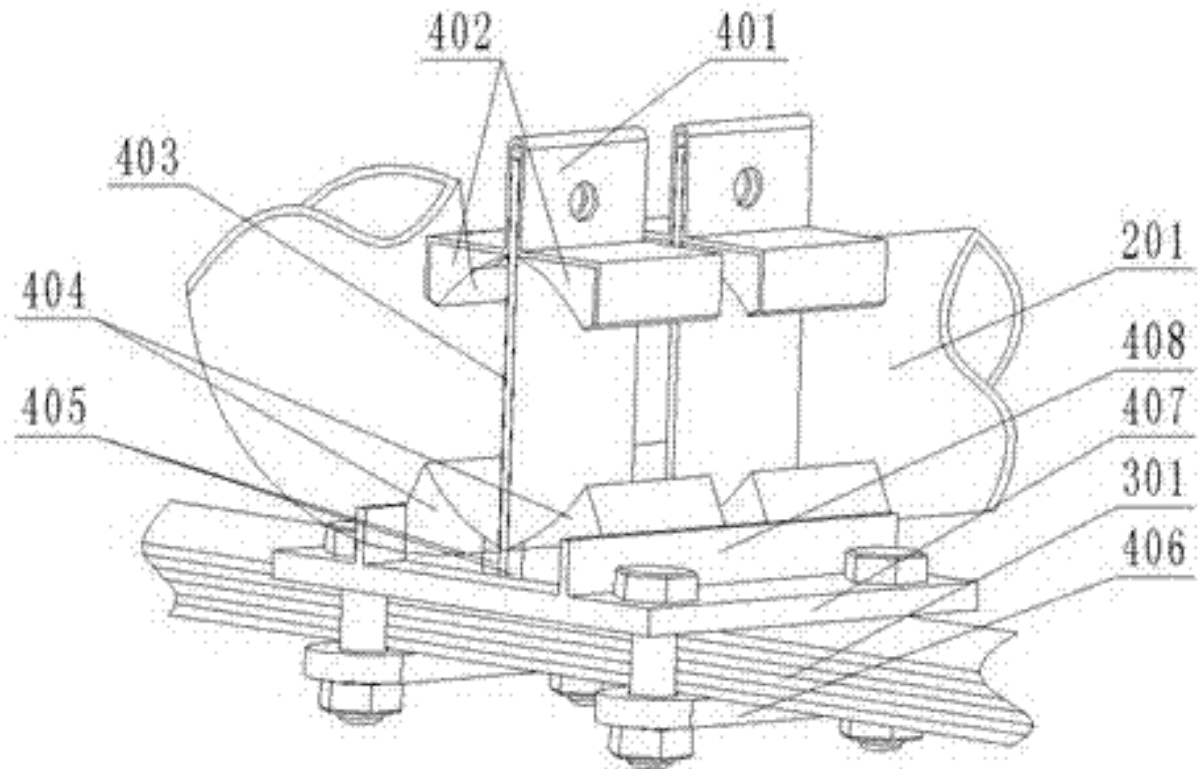
(EP1666346)

The present invention concerns a method for replacing the front wheels of a rolling **three-wheeled** vehicle (100) equipped with two front steering wheels (2, 3) and a rear wheel, at least one central trestle and a roll locking means of the vehicle.

Family 64/100 - FAMPAT - ©Questel

Title

(CN105966513)

Electric three-wheel **scooter****Images****Publication data including kind & date**

CN105966513

A

2016-09-28

CN105966513



CN105966513

B

2018-05-08

CN105966513B

**Abstract**

(CN105966513B)

The invention discloses an electric three-wheel **scooter** which comprises a front wheel assembly, a **scooter** body assembly, a suspension assembly, an elastic hinging assembly, a control system assembly and a rear wheel assembly. The electric three-wheel **scooter** is characterized in that the elastic hinging assembly comprises locking parts, rubber locking blocks, elastic steel pieces, rubber reset blocks, a supporting boss, a support, limiting plates and a fixing plate, wherein the rubber locking blocks are fixedly mounted on the locking parts and connected to the elastic steel pieces through bolts, the elastic steel pieces and the supporting boss are fixed in the middle of the support, and the rubber reset blocks are mounted between the two limiting plates and the support. The elastic steel pieces penetrate through a through groove in a **scooter** body steel pipe, the locking parts are hinged to the elastic steel pieces, and the **scooter** body steel pipe is clamped and fixed by the rubber locking blocks and the rubber reset blocks, so that the elastic hinging assembly is elastically connected with the **scooter** body assembly. Bolt connection of the support and the fixing plate is used for clamping and fixing a torsion bar spring steel piece set in the suspension assembly, and therefore the elastic hinging assembly is elastically connected with the suspension assembly.

Family 65/100 - FAMPAT - ©Questel

Title

(CN201951632U)

Totally-enclosed ordinary passenger-goods **three-wheeled**/four-wheeled vehicles for disabled persons to drive**Publication data including kind & date**[CN201951632](#)

U

2011-08-31

CN201951632U

**Abstract**

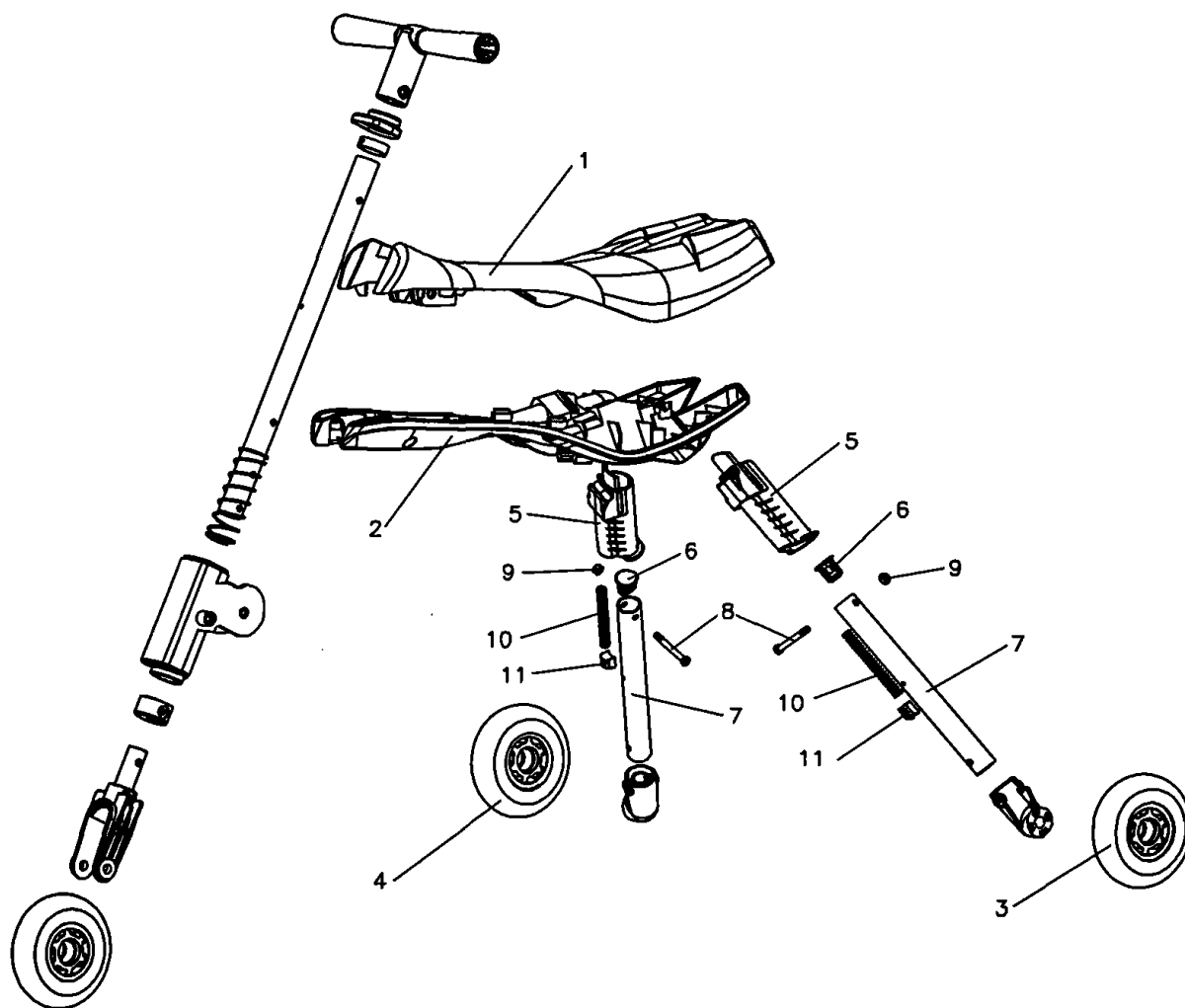
(CN201951632U)

The utility model relates to totally-enclosed ordinary passenger-goods **three-wheeled**/four-wheeled vehicles for disabled persons to drive. The vehicles all can be used for carrying goods and/or carrying passengers more favorably at the same time, wherein some vehicles are structurally characterized by additionally arranging containers or goods frames behind the tails of passenger-transport **three-wheeled** motorcycles for the disabled persons to drive; some vehicles are structurally characterized by additionally arranging containers or goods frames behind the tails of totally-enclosed passenger-transport **three-wheeled**/four-wheeled motorcycles; and other vehicles are developed by separating a driver seat from passenger seats of the traditional unreasonable ordinary passenger-goods **three-wheeled** motorcycles so as to enhance rationality.

Family 66/100 - FAMPAT - ©Questel

Title

(CN202156504U)

Rear feet folding structure of **three-wheeled scooter** for children**Images****Publication data including kind & date**[CN202156504](#)

U

2012-03-07

CN202156504U

**Abstract**

(CN202156504U)

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.

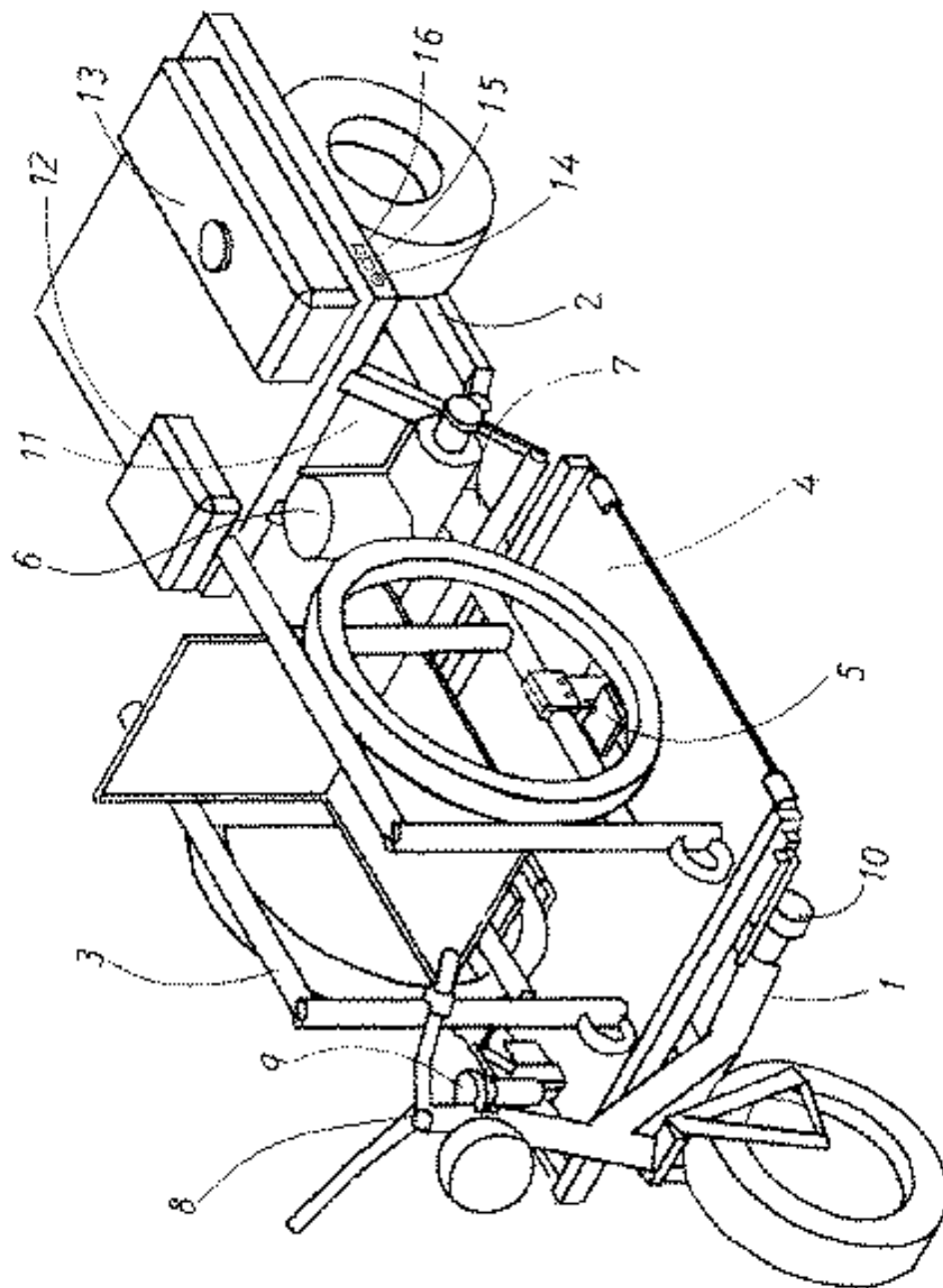
Family 67/100 - FAMPAT - ©Questel

Title

(JP2006158487)

Self-propelled **three-wheeled scooter** and bike for wheelchair

Images



Publication data including kind & date

JP3731162	B1	2005-10-21	JP3731162
JP2006158487	A	2006-06-22	JP2006158487



Abstract

(JP2006158487)

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.

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Family 68/100 - FAMPAT - ©Questel

Title

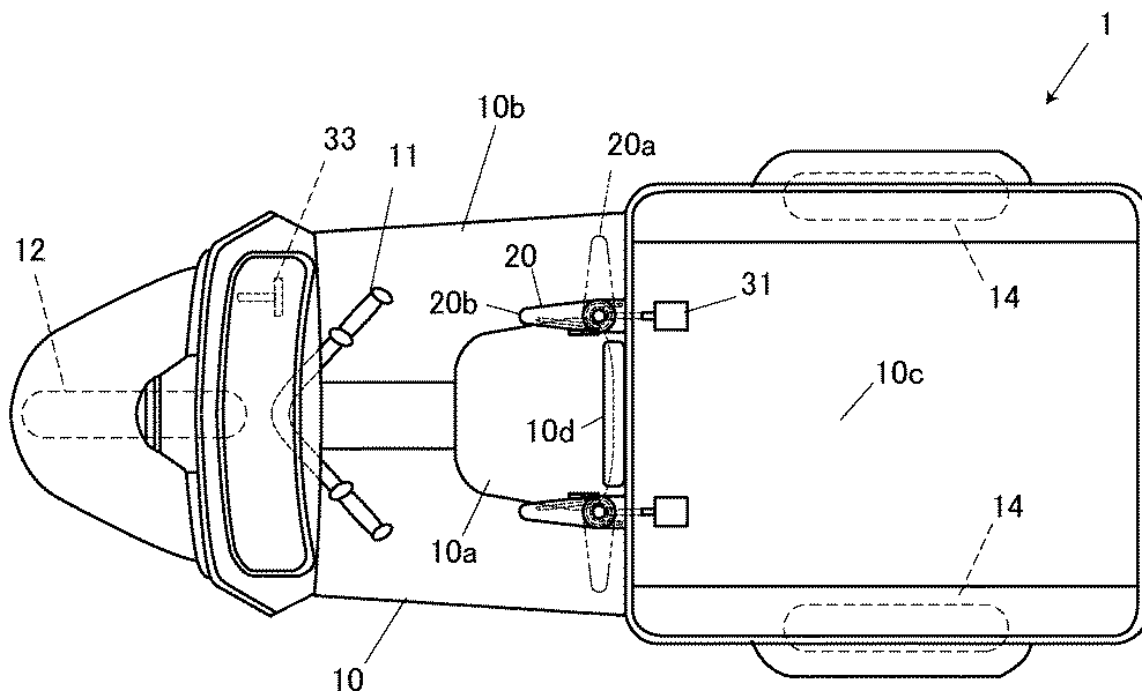
(JP2008296723)

Three-wheeled vehicle

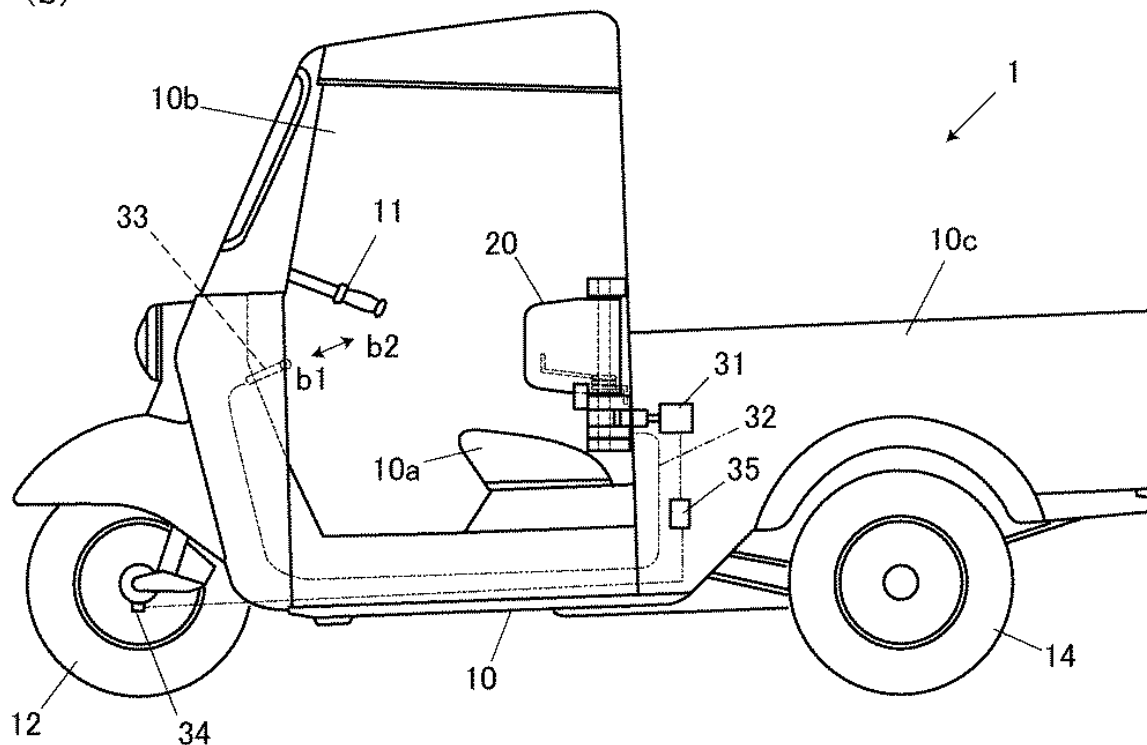
Images

P0284-01

(a)



(b)



Publication data including kind & date

JP2008296723

A 2008-12-11 JP2008296723



Abstract

(JP2008296723)

PROBLEM TO BE SOLVED: To provide a **three-wheeled** vehicle capable of loading a larger baggage than a **scooter** type **three-wheeled** vehicle in which getting on/off is easy and convenience is enhanced in spite of having a retaining means of a driver.

SOLUTION: The **three-wheeled** vehicle is provided with a support member 20 for taking a retreating position 20a releasing a side of a driver's seat 10a and retreated to a position not obstructing getting on/off of a driver and a support position 20b for supporting the side of the driver; and an interlocking mechanism for retreating the support member 20 to the retreating position 20a at stopping of the vehicle body 10 and positioning the support member 20 at the support position 20b at traveling of the vehicle body 10. When a side brake lever 33 is pulled in b2 direction, the support member 20 is retreated to the retreating position 20a.

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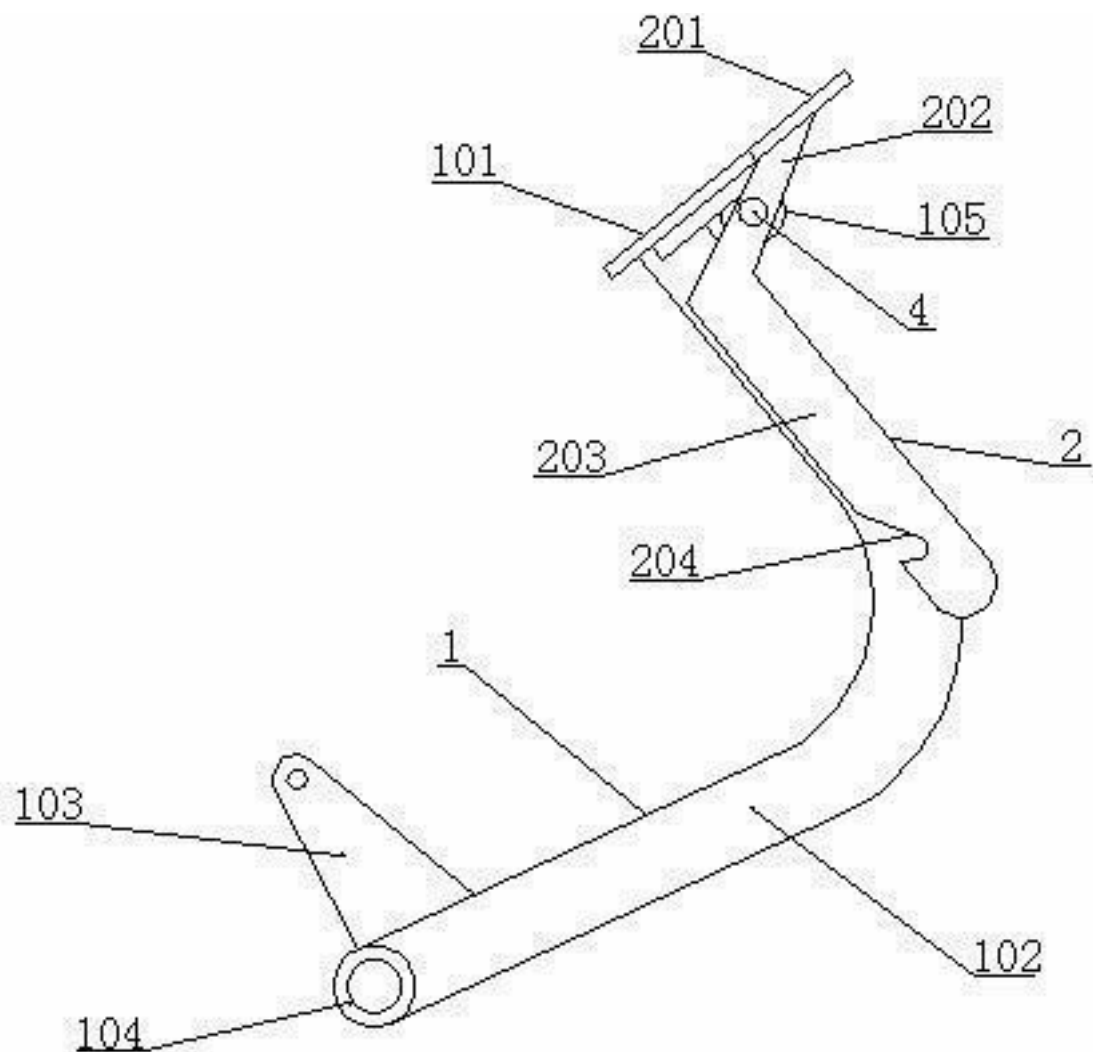
Family 69/100 - FAMPAT - ©Questel

Title

(CN202272143U)

Travelling and parking dual-purpose brake controller for light **three-wheeled** motorcycle

Images



Publication data including kind & date

[CN202272143](#) U 2012-06-13 CN202272143U



Abstract

(CN202272143U)

The utility model discloses a travelling and parking dual-purpose brake controller for a light **three-wheeled** motorcycle, comprising a travelling brake mechanism, wherein a brake crank of the travelling brake mechanism is provided with a traveling brake pedal; the travelling brake mechanism is also provided with a parking brake mechanism connected with the travelling brake mechanism through a pin roll; and the parking brake mechanism consists of a parking brake pedal and a brake lug, and the brake lug is arranged at the lower end of the parking brake pedal and provided with a hook matched with a limiting piece fixed on a motorcycle body. The travelling and parking dual-purpose brake controller is simple in structure, reliable in performance and strong in braking force. Required treading force for braking is smaller, and the travelling and

parking dual-purpose brake controller is free to operate. Traveling brake and parking brake are combined into a whole, thus, the structure of a brake part of the motorcycle is effectively simplified, and the requirements on travelling brake and parking brake are effectively met.

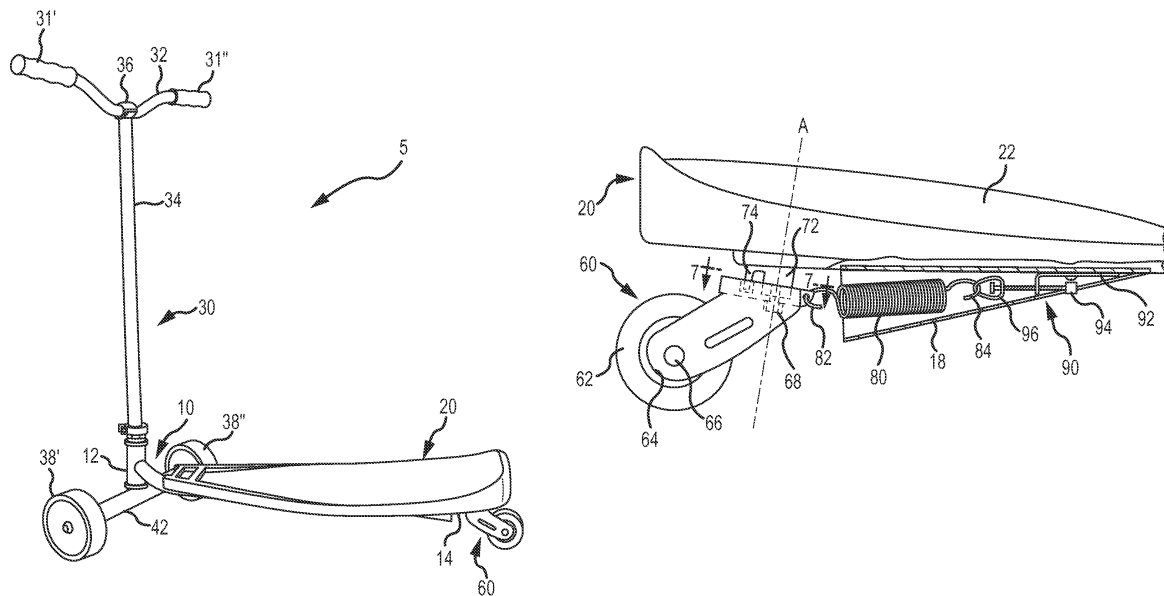
Family 70/100 - FAMPAT - ©Questel

Title

(EP2371691)

Drift **scooter**

Images



Publication data including kind & date

EP2371691	A2	2011-10-05	EP2371691
US20110241302	A1	2011-10-06	US20110241302
AU2010224439	A1	2011-10-20	AU2010224439
US20130113172	A1	2013-05-09	US20130113172
EP2371691	A3	2013-10-02	EP2371691
US8632084	B2	2014-01-21	US8632084
US8632083	B2	2014-01-21	US8632083
US20140131968	A1	2014-05-15	US20140131968
US20140131967	A1	2014-05-15	US20140131967



Abstract

(EP2371691)

A drift **scooter** comprising a longitudinal frame including opposed leading and trailing end portions. A steering assembly is pivotably disposed on the leading end portion and includes a transverse member with two wheels rotatably supported on opposite ends of the transverse member. A stem is fixed in perpendicular orientation relative to the transverse member and a handlebar is connected to the stem. A rear wheel assembly is pivotably disposed on the trailing end portion, wherein the wheel assembly pivots about an upwardly extending pivot axis. The rear wheel assembly is preferably biased toward a centered position, aligned with a centerline of the frame. A resilient member is connected between the frame and a leading portion of the caster. The resilient member may be in the form of an extension spring. Means for adjusting the tension of the extension spring may also be included.

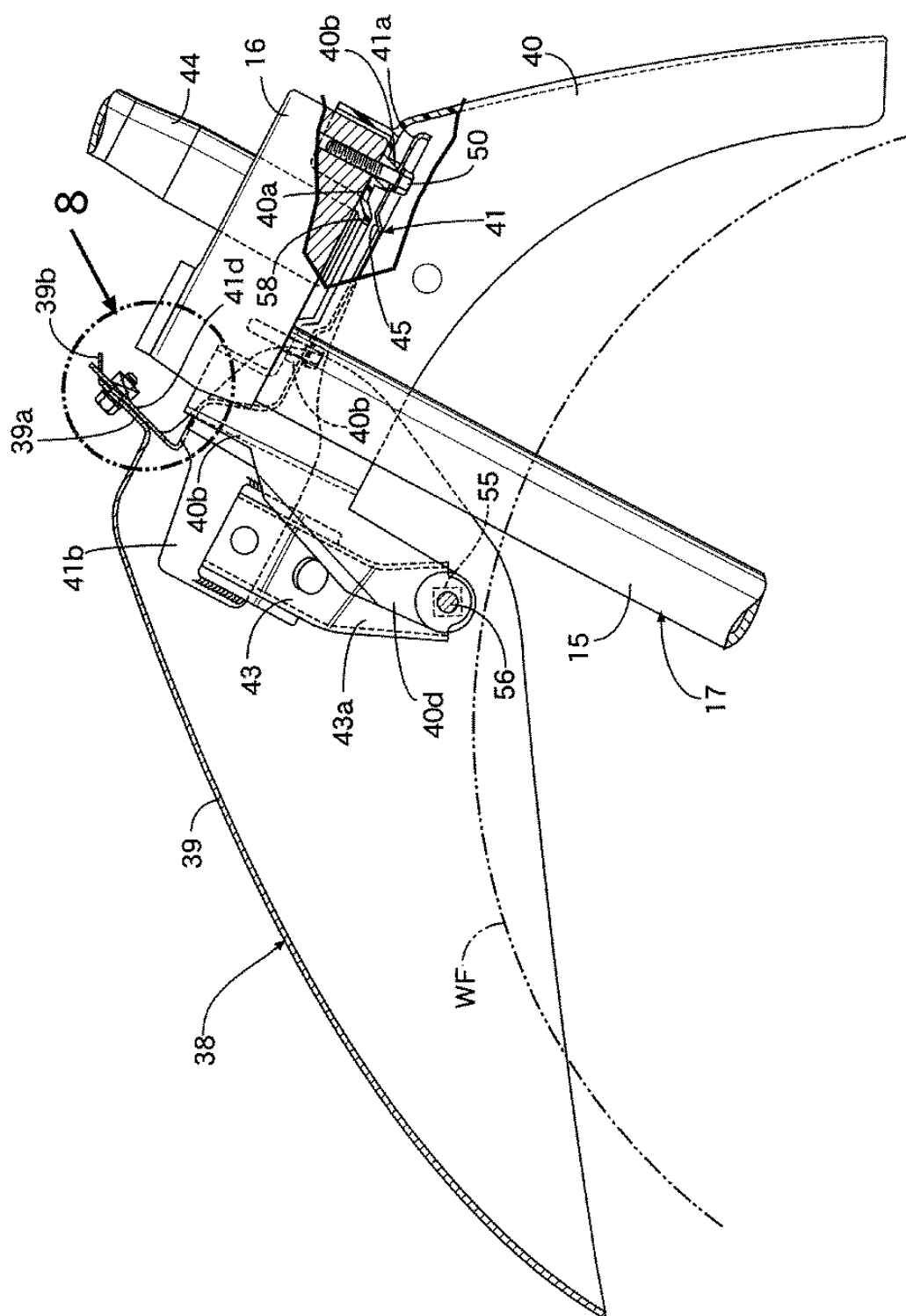
Family 71/100 - FAMPAT - ©Questel

Title

(JP2008174040)

Front fender structure for motorcycle and motor tricycle

Images



Publication data including kind & date

CN101224771	A	2008-07-23	CN101224771
JP2008174040	A	2008-07-31	JP2008174040
TR200708556	A2	2008-09-22	TR200708556
CN101224771	B	2010-10-13	CN101224771B
JP4890274	B2	2011-12-22	JP4890274
IN0118/CHE/2008	A	2013-03-15	IN2008CH00118
IN265840	B	2015-03-20	IN-265840



Abstract

(JP4890274)

PROBLEM TO BE SOLVED: To improve assembly working efficiency and maintenance properties in a front fender structure, wherein a bracket is mounted to a front fork for journaling a front wheel in the lower end part of a pair of leg parts disposed on both sides of the front wheel and a front fender constructed of a fender front half member and a fender rear half member is installed to the bracket to cover the wheel from the upper side, for a motorcycle and a motor tricycle.

SOLUTION: In the bracket 41 formed separately from the front fork 17, the fender front half member 39 and the fender rear half member 40 are respectively installed removably. The bracket 41, to which the fender front half member 39 and the fender rear half member 40 are assembled, is removably installed on the lower face of a bridge member 16 connecting the both leg parts 15.

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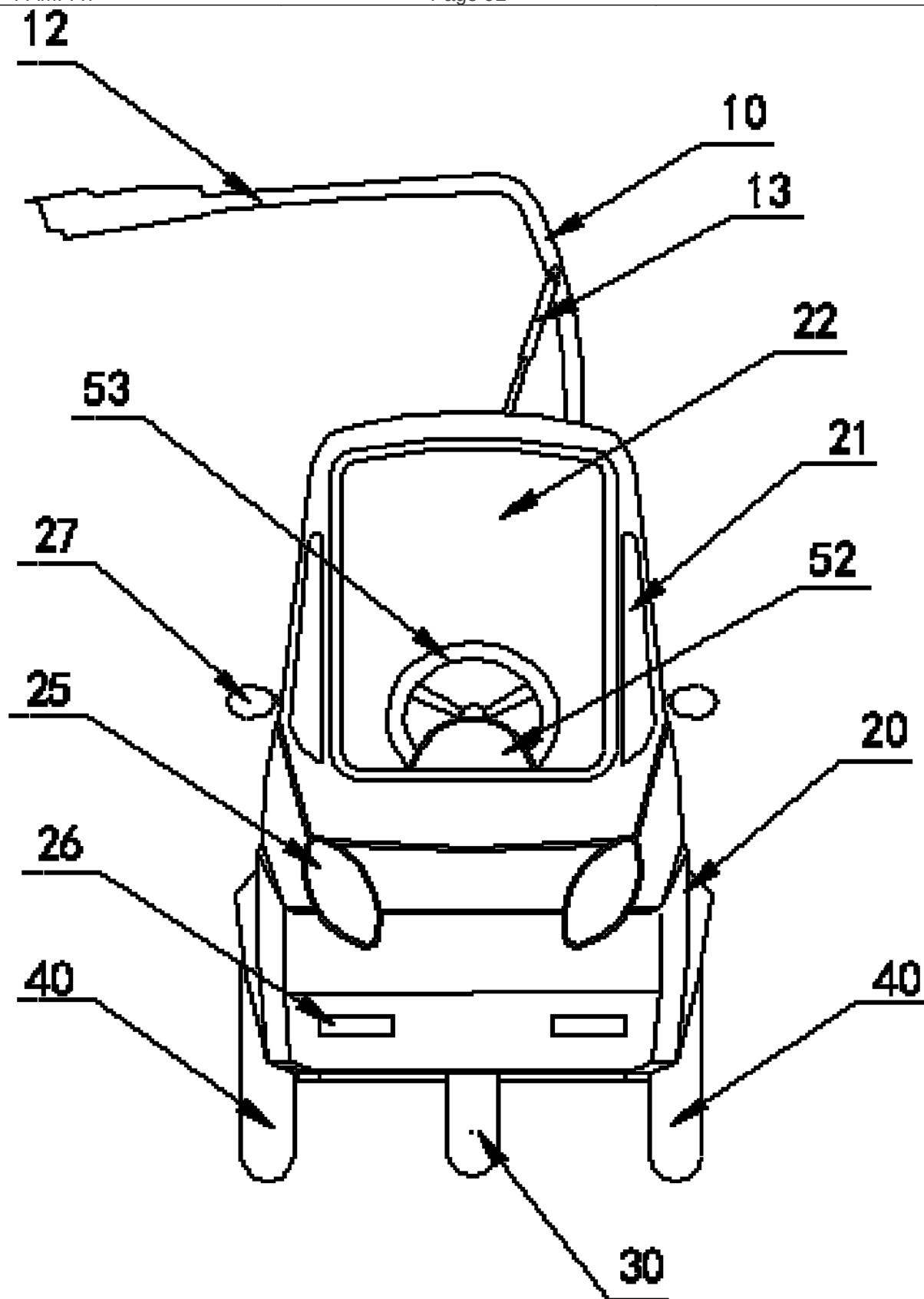
Family 72/100 - FAMPAT - ©Questel

Title

(CN201573716U)

Micro right **three-wheeled** electric car

Images

**Publication data including kind & date**

CN201573716

U 2010-09-08 CN201573716U

**Abstract**

(CN201573716U)

The utility model discloses a micro right **three-wheeled** electric car, which comprises a storage battery direct-current power supply system, a drive motor, a body frame, a running operating mechanism, a running indicating lamp and a braking device. A full-closed loading structure for a driving and operating mechanism is adopted as an outer shield structure of the whole body, a car door adopts an integral structure formed by connecting the car door and a car ceiling, and a structure of upward lifting and opening from the car door to the single side of the ceiling is adopted; a telescopic support arm is used as

a support structure for upwards lifting the car door and the single side of the ceiling; a fixing and mounting structure of front and rear wheels adopts a wheel suspension assembly structure which is independently suspended and is easy to quickly replace the wheels; and the running operating mechanism comprising a reverse control device is arranged in a cab. The micro right **three-wheeled** electric car increases the running flexibility and safety, reduces the running potential safety hazard, and meets the convenience requirement of people for traffic to a greater degree; and the car door and the ceiling are connected integrally, so the car is more convenient and easier to get in and out, and the car has the advantages of small volume, few occupied lane and high comfort and safety.

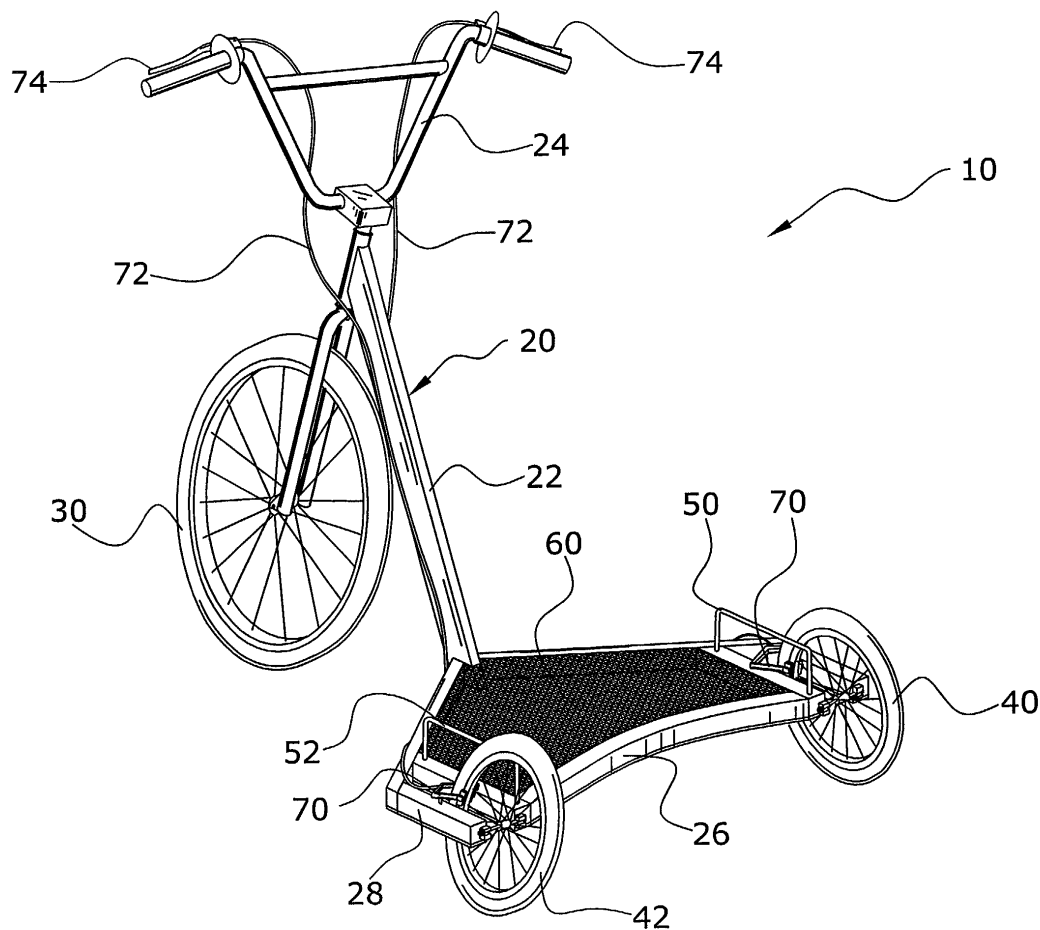
Family 73/100 - FAMPAT - ©Questel

Title

(US20030052471)

Three-wheeled scooter apparatus

Images



Publication data including kind & date

US20030052471

A1 2003-03-20

US20030052471



Abstract

(US20030052471)

A **three-wheeled scooter** apparatus for providing a **scooter** for usage in extreme environments that has a stable and safe structure which can be utilized by various types of individuals in an upright position. The **three-wheeled scooter** apparatus includes a frame having a center member and a lower structure, a front wheel rotatably attached to the frame, a pair of rear wheels rotatably attached to the lower structure of the frame, a support platform secured to the lower structure forming a flat support surface for the user to stand upon, and a pair of guard members secured to the side portions of the lower structure for protecting the feet of the user. A pair of side arms extend from the lower structure for providing additional support to the rear wheels. A brake member is preferably positioned adjacent to each of the rear wheels for allowing

slowing and stopping of the vehicle during travel. The rear wheels are preferably angled upwardly and inwardly for increasing straight line tracking during operation.

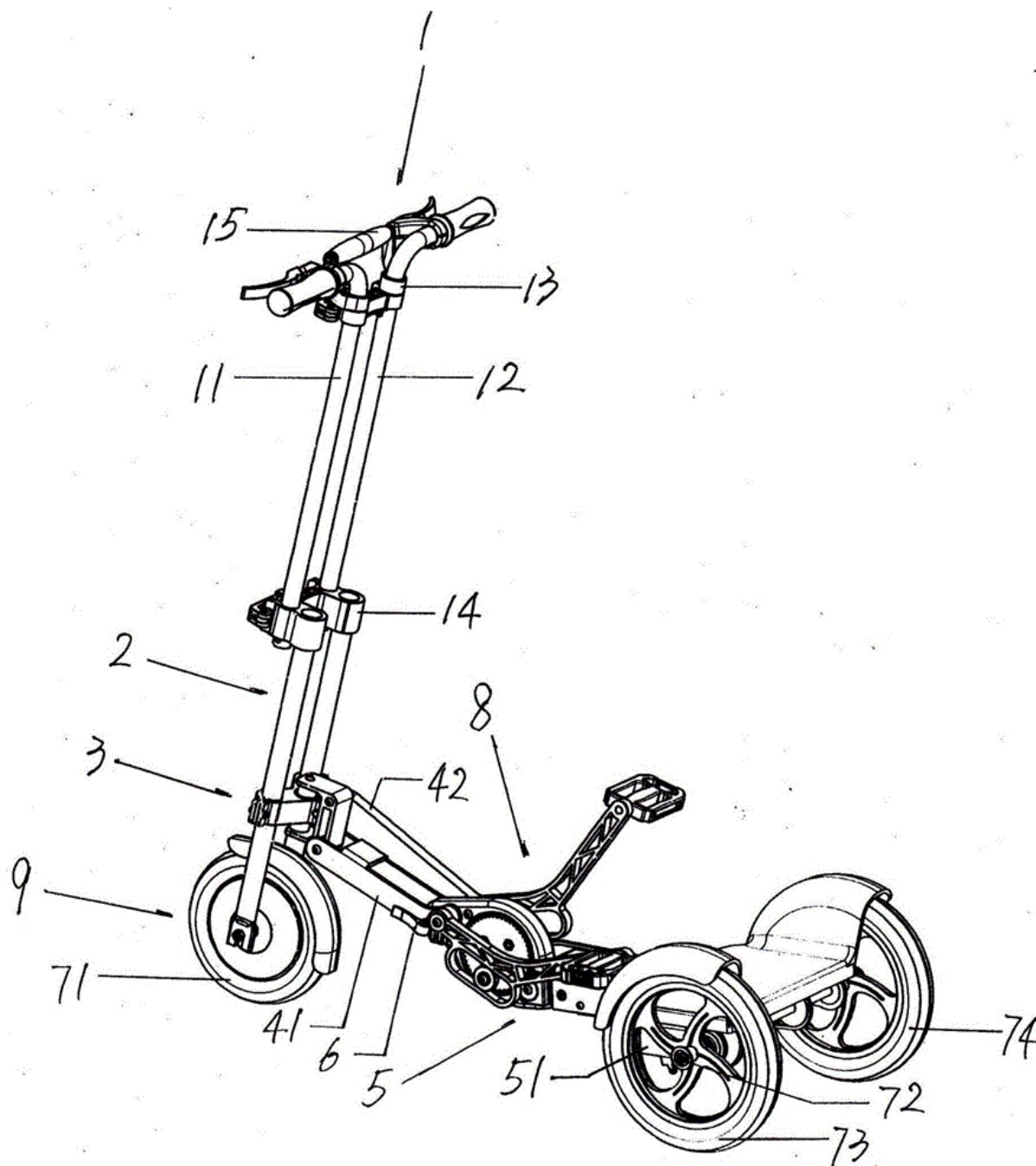
Family 74/100 - FAMPAT - ©Questel

Title

(CN106697150)

Telescopic handle vibration-avoidance type portable **three-wheeled** power-driven pedal bike

Images



Publication data including kind & date

[CN106697150](#)

A 2017-05-24 CN106697150



Abstract

(CN106697150)

Disclosed is a telescopic handle vibration-avoidance type portable **three-wheeled** power-driven pedal bike. The telescopic handle vibration-avoidance type portable **three-wheeled** power-driven pedal bike comprises a fast telescopic handle, a front fork, a front frame, a lower connecting rod, an upper connecting rod, a bike body, a battery box, a quick release part, a front wheel, a rear wheel shaft, a left rear wheel, a right rear wheel, a manpower driving mechanism and a power-driven driving

system, wherein the fast telescopic handle is connected to the front fork and is rotatably connected to the front frame, the lower connecting rod is connected to a transverse hole below a rear connecting piece and a locating shaft respectively, the upper connecting rod is connected to a transverse hole above the rear connecting piece and a bike body maser piece respectively, the bike body is composed of the bike body maser piece, a front bearing, a pressing ring, two rear bearings, a bearing pedestal, the locating shaft, a vibration-avoidance block, a left-right wheel fork, a vibration-avoidance separation blade and a rear panel, the batter box is connected to the left-right wheel fork, the front wheel is installed in the front fork, the left rear wheel and the right rear wheel driven by the rear wheel shaft are installed at the rear end of the left-right wheel fork, the driving mechanism comprises a foot bar piece, a pedal, a crankshaft gear set, a rear gear set, a flywheel and a chain, a motor is arranged in the front wheel, and both a battery and a controller are placed in the battery box.

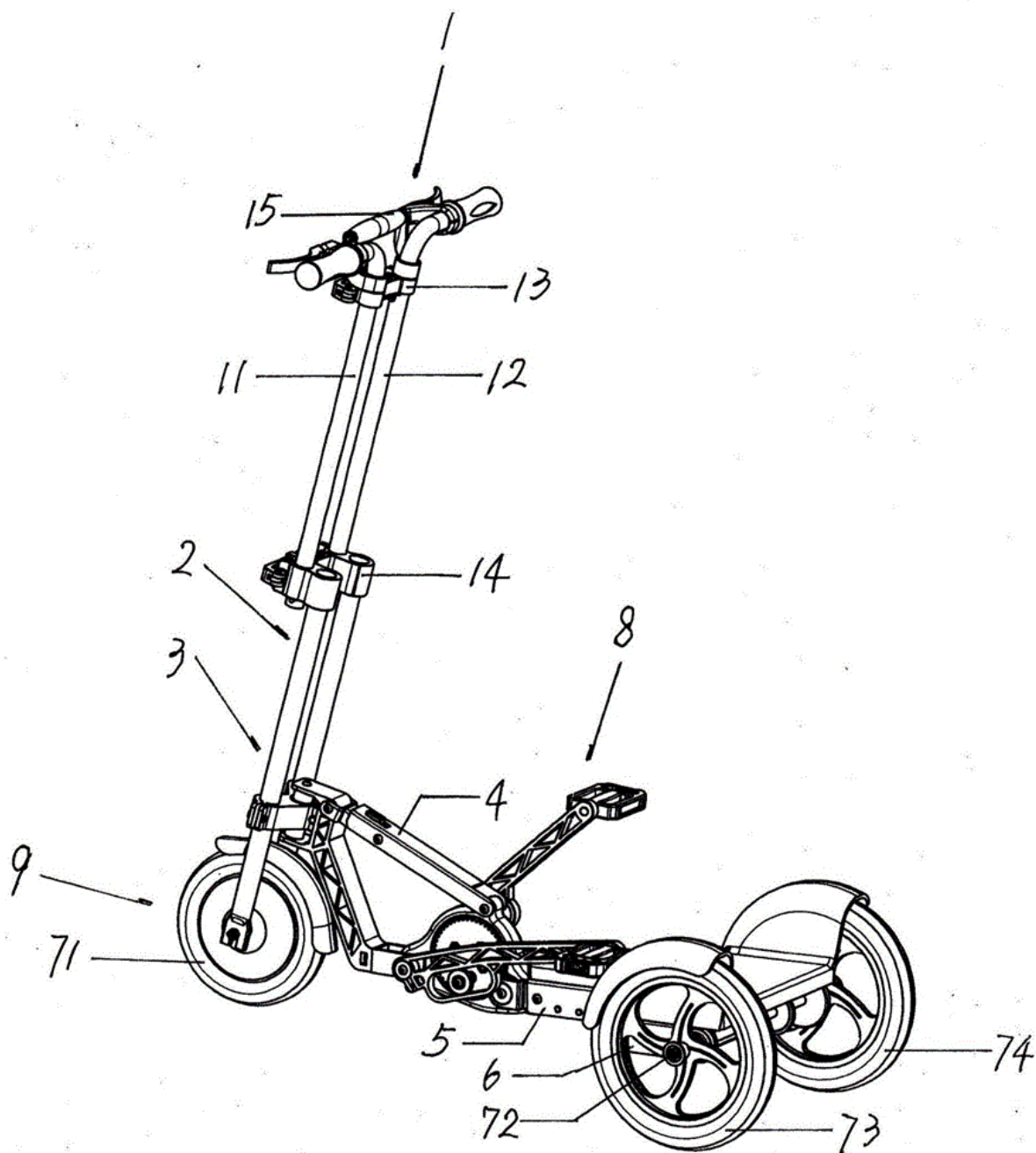
Family 75/100 - FAMPAT - ©Questel

Title

(CN106672144)

Foldable and vibration absorption type **three-wheeled** electric pedal bike with rapid telescopic handlebar

Images



Publication data including kind & date

CN106672144

A 2017-05-17 CN106672144



Abstract

(CN106672144)

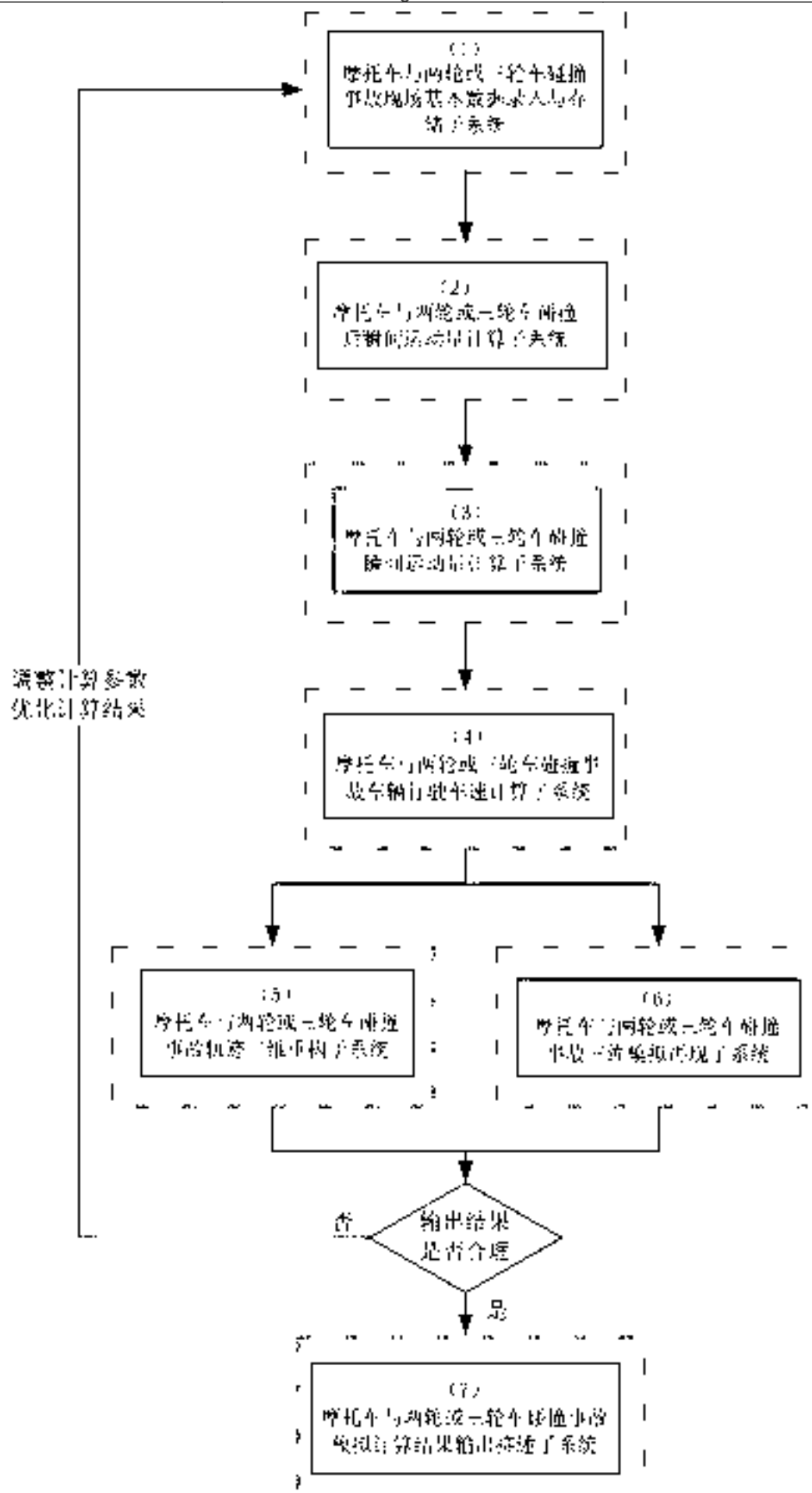
The invention provides a foldable and vibration absorption type **three-wheeled** electric pedal bike with a rapid telescopic handlebar. The foldable and vibration absorption type **three-wheeled** electric pedal bike comprises the rapid telescopic handlebar, a front fork, a front frame, a foldable connecting rod, a vehicle body, a battery box, a front wheel, a rear wheel shaft, a left rear wheel, a right rear wheel, a manual driving mechanism and an electric driving system, wherein the rapid telescopic handlebar is connected with the front fork and is rotatably connected with the front frame; the front frame comprises a front connecting piece, a rotary part, a rear connecting piece and a groove-shaped connecting piece; the groove-shaped connecting piece is connected with a positioning shaft; the foldable connecting rod is connected with the rear connecting piece and a vehicle body main part respectively; the vehicle body is formed by connecting the vehicle body main part, a front bearing, a pressing ring, two rear bearings, a bearing seat, the positioning shaft, a vibration absorption block, a left wheel fork, a right wheel fork, a vibration absorption separation blade and a rear panel; a battery box is connected with the left wheel fork and the right wheel fork; the front wheel is mounted on the front fork; the left rear wheel and the right rear wheel, which are connected with the rear wheel shaft, are mounted at rear ends of the left wheel fork and the right wheel fork; a driving mechanism comprises a pedal piece, a pedal, a crankshaft gear group, a rear gear group, a flywheel and a chain; the motor is arranged on the front wheel; and the battery and the controller are arranged in the battery box.

Family 76/100 - FAMPAT - ©Questel

Title

(CN102043885B)

Motorcycle and two/**three-wheeled** vehicle collision accident simulation and reproduction system**Images**



Publication data including kind & date

CN102043885

A

2011-05-04

CN102043885

CN102043885

B

2012-12-05

CN102043885B



Abstract

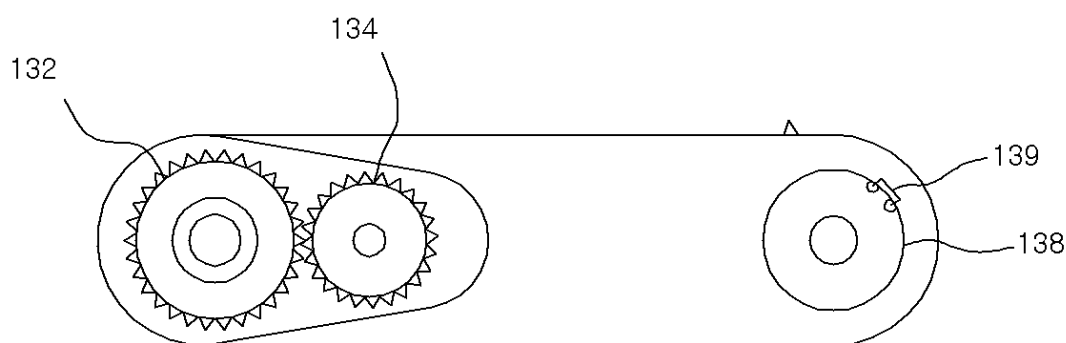
(CN102043885B)

The invention discloses a motorcycle and two/**three-wheeled** vehicle collision accident scenario analysis and reconstruction system for road traffic accident examination by traffic management department of public security bureau. The system can calculate the running speeds and collision speeds of accident vehicles in a motorcycle and two/**three-wheeled** vehicle collision accident by using basic data obtained by on-site investigation of the accident and realize the two-dimensional track description, three-dimensional process reconstruction, automobile and ground fixed object collision accident main calculation data list output and accident process brief text output. Changing the traditional low-efficiency and out-of-date road traffic accident analysis and handling mode and means, the system is characterized by high efficiency, visualization, sense of reality, high transparency and the like, plays important roles in clearly defining responsibility, avoiding intensifying conflict, reducing social unstable factors, promoting harmonious operation of social life and the like in accident examination, and makes the road traffic accident examination in China more scientific and accurate.

Family 77/100 - FAMPAT - ©Questel

Title

(KR20130045124)

Three-wheeled scooter capable of stably cornering with an auto-landing hydraulic shock absorber**Images****Publication data including kind & date**[KR20130045124](#)

A

2013-05-03

KR20130045124

**Abstract**

(KR20130045124)

PURPOSE: A **three-wheeled scooter** is provided to prevent the slip and overturn of a vehicle body during cornering and to drive the **scooter** regardless of weather conditions. CONSTITUTION: A **three-wheeled scooter** comprises a coaxial cylinder(120), a gear part, a handle shaft, a timing belt(160), and an auto-landing hydraulic shock absorber. The coaxial cylinder is connected to a piston to receive power. The handle shaft is installed in front of the gear part to change the heading angle of a front wheel. Movable balls are installed on the front and rear sides of the timing belt so that the timing belt can transfer the power from the front side to the rear side. The auto-landing hydraulic shock absorber comprises two front shock absorbers installed in the handle shaft; and rear shock absorbers and installed in a pair of rear wheels. The auto-landing hydraulic shock absorber prevents the slip or overturn of a vehicle body during cornering.

Family 78/100 - FAMPAT - ©Questel

Title

(IN1997CH00256)

Motor-driven **three wheeled** vehicle**Publication data including kind & date**[IN0256/MAS/1997](#)

A

2016-08-31

IN1997CH00256

**Abstract**

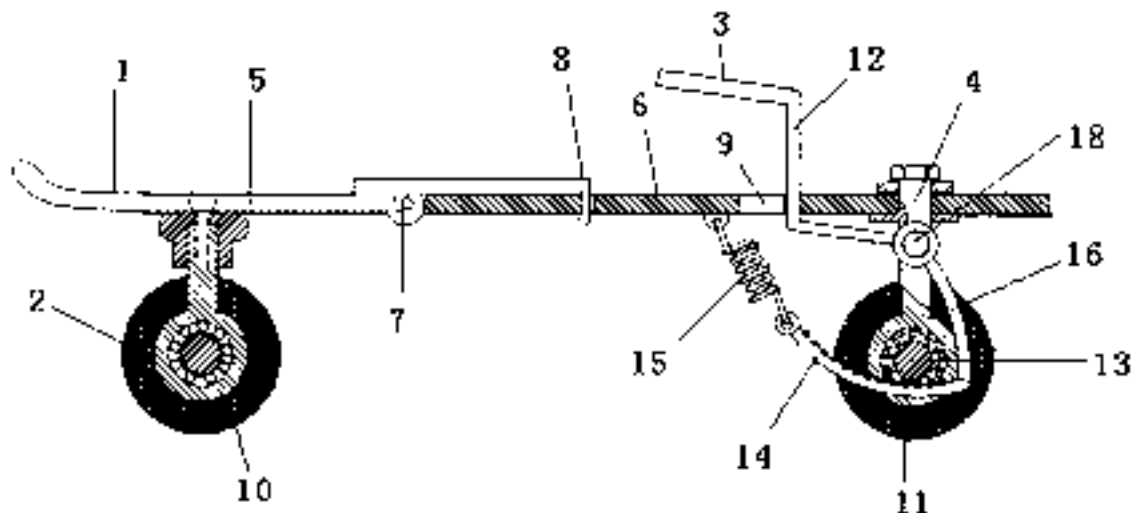
(IN1997CH00256)

The **three-wheeled** vehicle has a frame which can be tilted around its longitudinal axis, whose rear part (2) has a chassis for two track car wheels (6), and whose front part (1), which can be tilted relative to this rear part (2) carries the driver's seat (22). Arranged in front of this is a front wheel suspension which can be tilted relative to the front part of the frame, to which are attached the front wheel (7), the engine and the gears for the front wheel drive. The two vehicle parts (1,2) which can be tilted relative to each other each support body parts (44,52) which can also be designed as a monocoque for the front part (1) and forms a closed and heatable driver's cabin (45).

Family 79/100 - FAMPAT - ©Questel

Title

(CN202844524U)

Three-wheeled pedal folded **scooter****Images****Publication data including kind & date**[CN202844524](#)

U

2013-04-03

CN202844524U

**Abstract**

(CN202844524U)

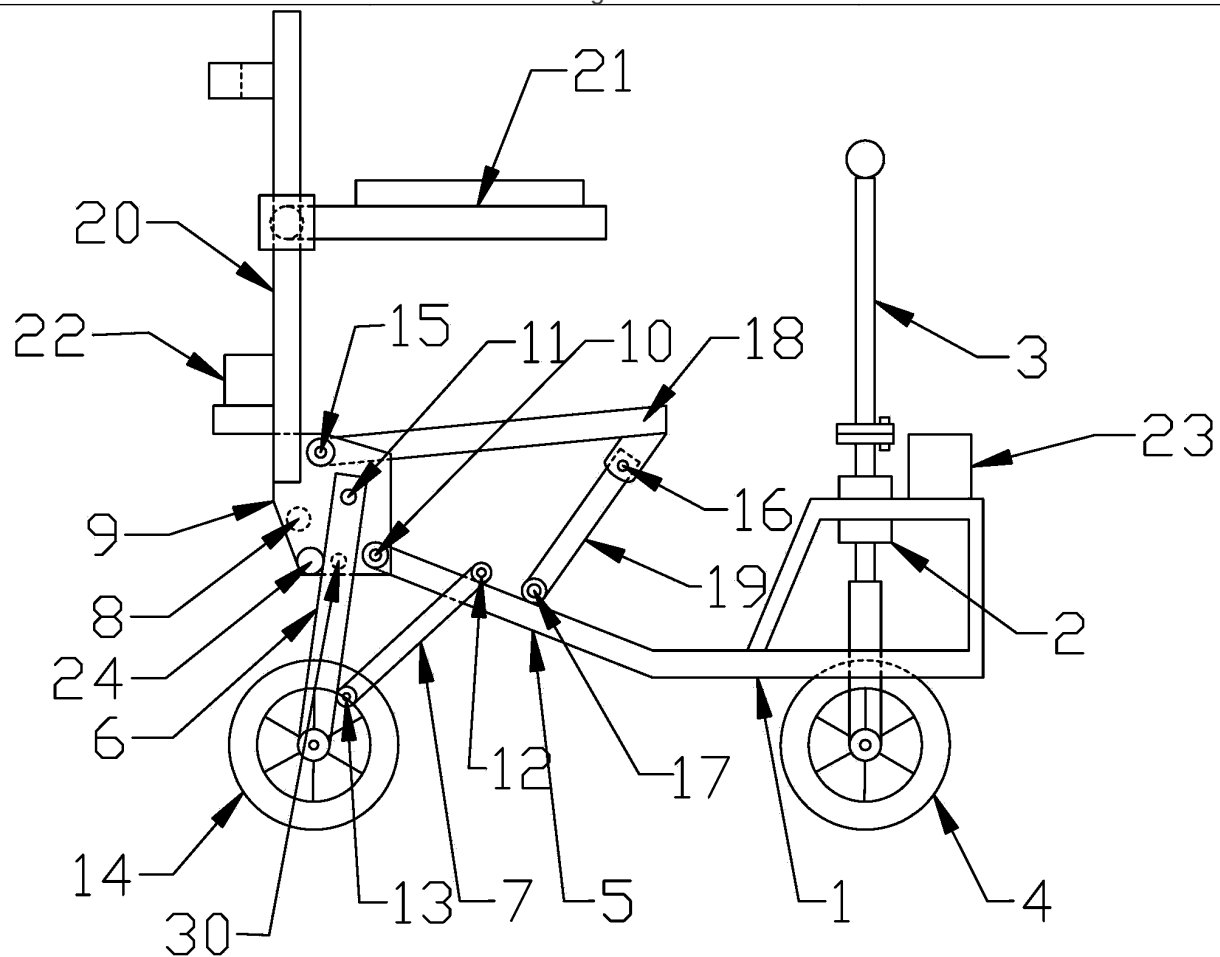
The utility model discloses a **three-wheeled** pedal folded **scooter**. The **scooter** comprises a sliding plate surface, pulleys, a pedal device and a steering device, wherein the sliding plate surface is arranged on the pulleys, the pedal device is arranged on the pulleys and the sliding plate surface, and the steering device is arranged on a pulley; the sliding plate surface comprises a front sliding plate surface and a rear sliding plate surface; the pedal device comprises a pedal, a one-way ratchet wheel, a one-way arc rack, a reset spring and a swing arm; and the steering device comprises a steering shaft and a swing shaft. The **scooter** can accelerate and steer without stepping on the ground, is simple in structure, can be folded, is convenient to use, can be used for entertainment, and can also be used as a simple and practical tool instead of walking, thus having a good popularization prospect.

Family 80/100 - FAMPAT - ©Questel

Title

(CN203714086U)

Folding **three-wheeled** electric **scooter** for old people**Images**



Publication data including kind & date

CN203714086

U

2014-07-16

CN203714086U



Abstract

(CN203714086U)

The utility model discloses a folding **three-wheeled** electric **scooter** for old people. The **scooter** comprises a front frame, a folding rear frame and a folding seat fixed on the rear frame, wherein the rear frame comprises rear frame landing legs, folding joint racks, rear wheel landing legs and a rear frame inclined strut leg, the folding seat comprises a seat board rack and folding legs, the folding electric **scooter** also comprises a driving device and a braking device which are arranged on a **scooter** body, the driving device is in transmission connection with a front wheel, and the driving device comprises a storage battery and a motor connected with the storage battery. A folding structure is adopted, the length of the **scooter** is shortened and the height of the **scooter** is lowered through folding of each folding parts of the **scooter** body, so that the size of the **scooter** body is greatly reduced, the **scooter** can be conveniently placed in a trunk of a car, and hope is brought for a user or people who are inconvenient in moving to go on a tour.

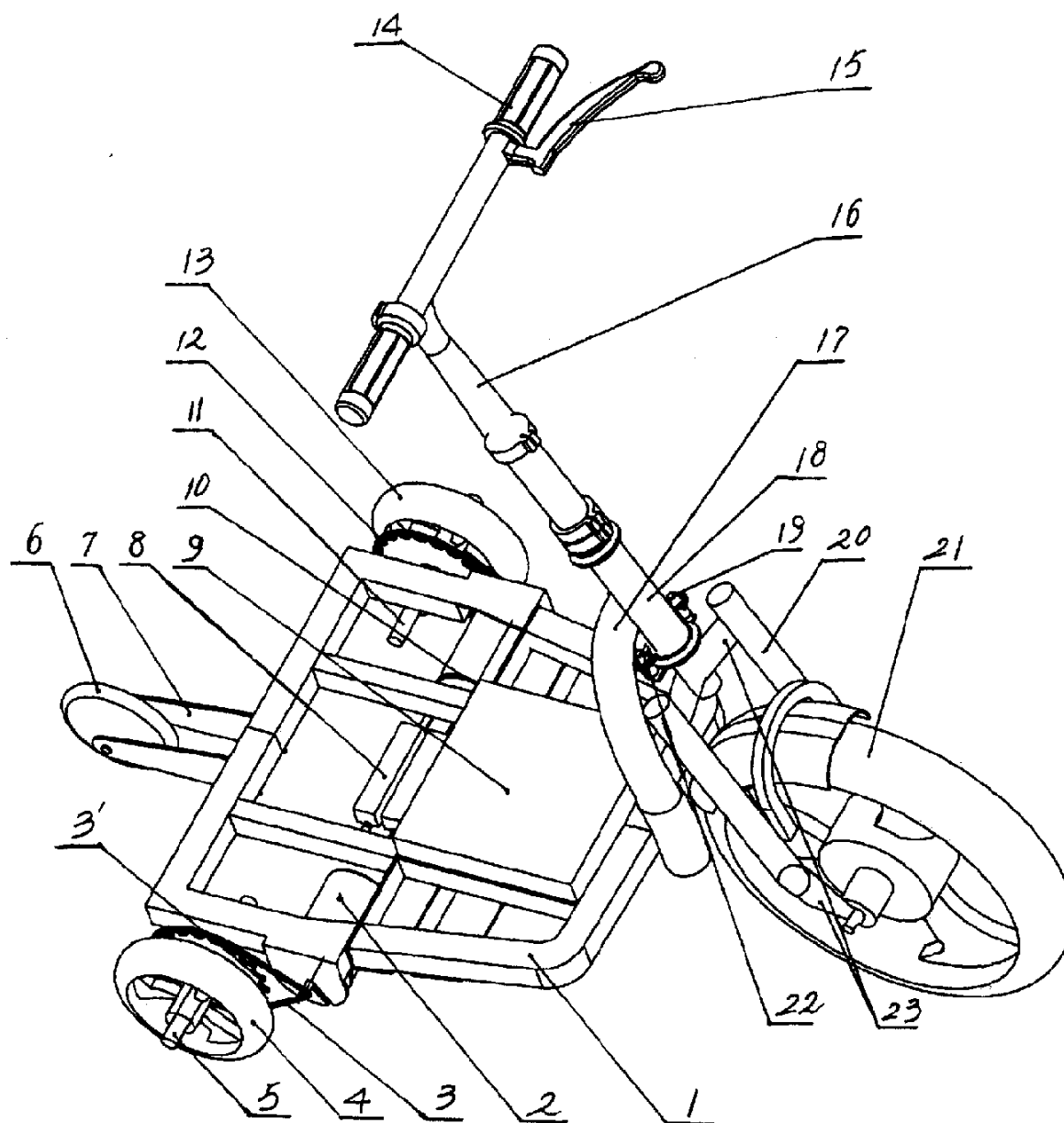
Family 81/100 - FAMPAT - ©Questel

Title

(CN2759918U)

Three-wheeled electric **scooter**

Images



Publication data including kind & date

CN2759918

Y 2006-02-22 CN2759918U



Abstract

(CN2759918U)

The utility model relates to an electric **scooter** with three wheels, which is provided with a **scooter** frame, wherein a pedal is arranged on the **scooter** frame, back wheels arranged inside the **scooter** frame and the front part of the **scooter** frame is connected with an upright rod. A handle is arranged on the upright rod. A brake crank is arranged on the handle. A front fork is arranged under the upright rod. The front fork is provided with a front wheel which is a single front wheel. The back wheels are two back wheels which are respectively connected with drive motors. The current of the two motors are supplied by a battery on the **scooter** frame. The two motors are respectively connected with a controller. The **scooter** is provided with three wheels. The two back wheels are respectively driven by each drive motor particularly. Thus, when one wheel is driven to rotate by one motor, while the other one is not rotated, the wheel which is not rotated becomes the center of a circle. The front wheel and the wheel which is rotated are rotated around the wheel which is not rotated when a person stands on a pedal so as to achieve the rotation in situ of 360 DEG. **Scooter** ride is very interesting. When one back wheel is driven by one motor and travels with the front wheel together in one side direction, the **scooter** ride is very exciting likewise.

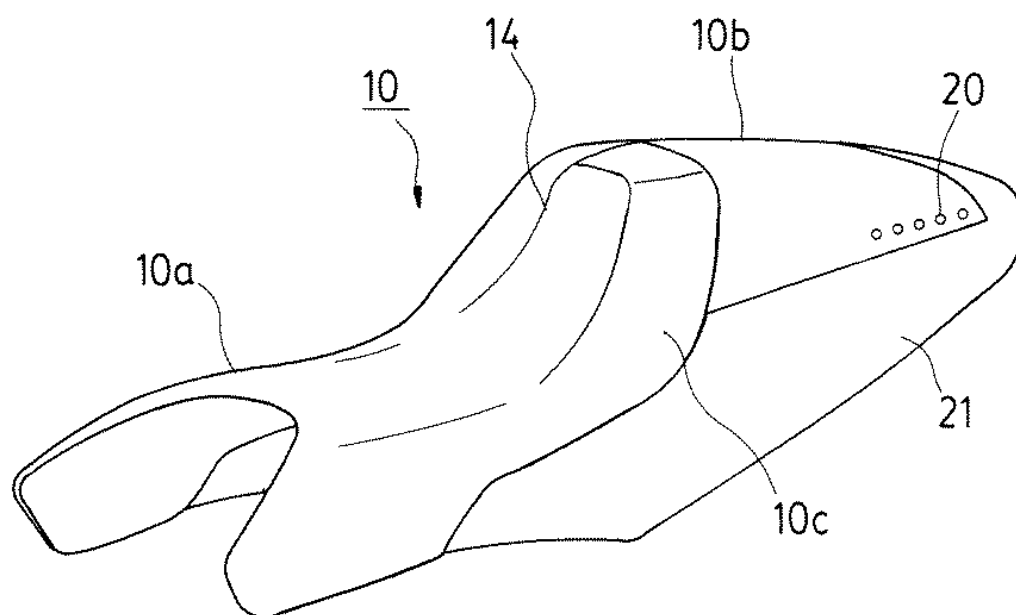
Family 82/100 - FAMPAT - ©Questel

Title

(JP2005125864)

Seat for motorcycle and **three-wheeled** motorcycle

Images



Publication data including kind & date

[JP2005125864](#)

A

2005-05-19

JP2005125864



Abstract

(JP2005125864)

PROBLEM TO BE SOLVED: To provide a seat for a motorcycle and a **three-wheeled** motorcycle superior in design property.

SOLUTION: This seat 10 for a motorcycle and a **three-wheeled** motorcycle is formed by covering a cushion material with a surface skin material by arranging the cushion material on a bottom plate. A front seat 10a and a rear seat 10b are integrally constituted in this seat 10. The rear seat 10b is constituted so as to have the same color as a cowl 21 equipped in the motorcycle and the **three-wheeled** motorcycle, and have an integral appearance with the cowl 21.

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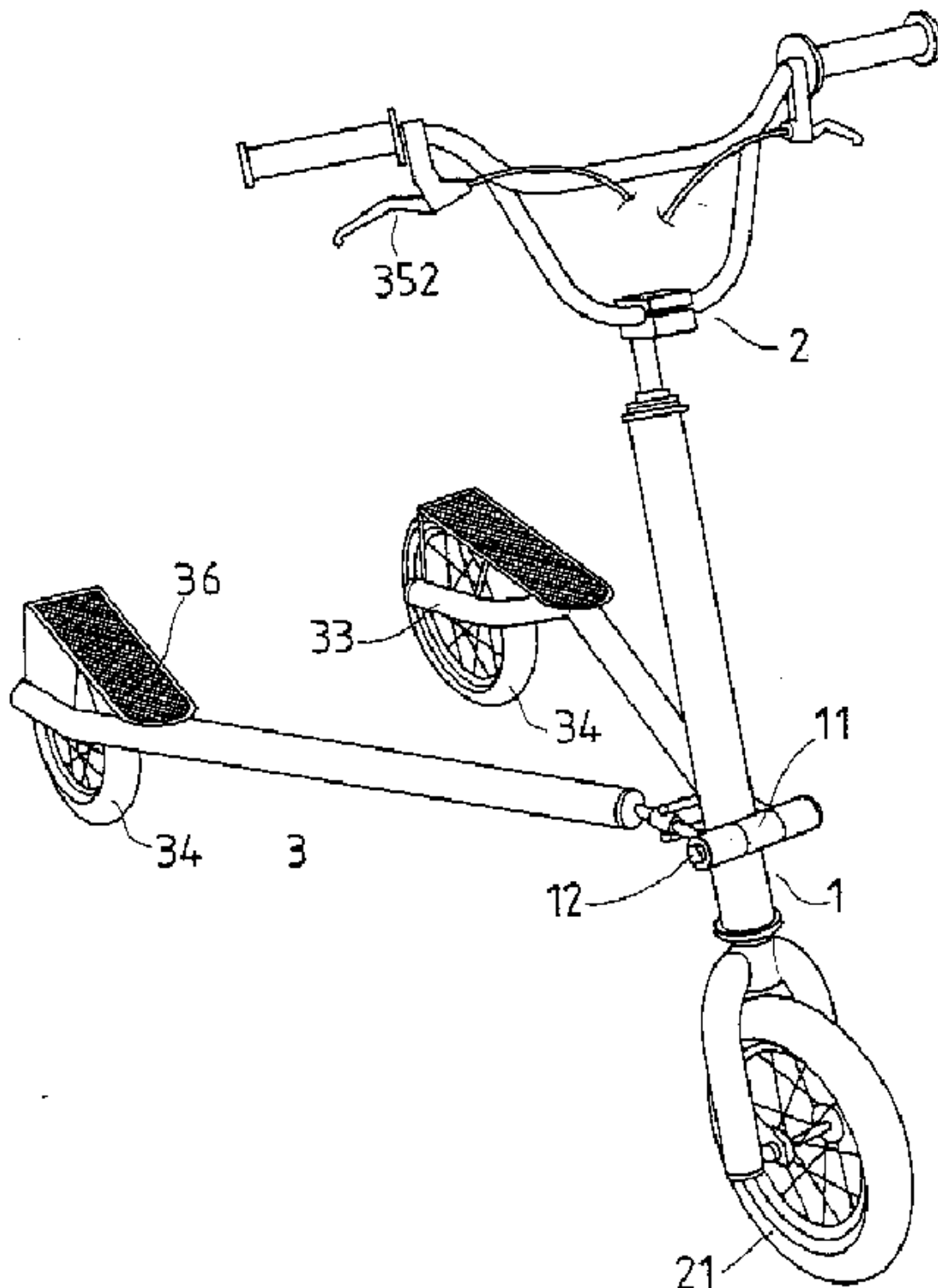
Family 83/100 - FAMPAT - ©Questel

Title

(CN2437576U)

Three-wheeled torsion **scooter**

Images

**Publication data including kind & date**[CN2437576](#)

Y

2001-07-04

CN2437576U

**Abstract**

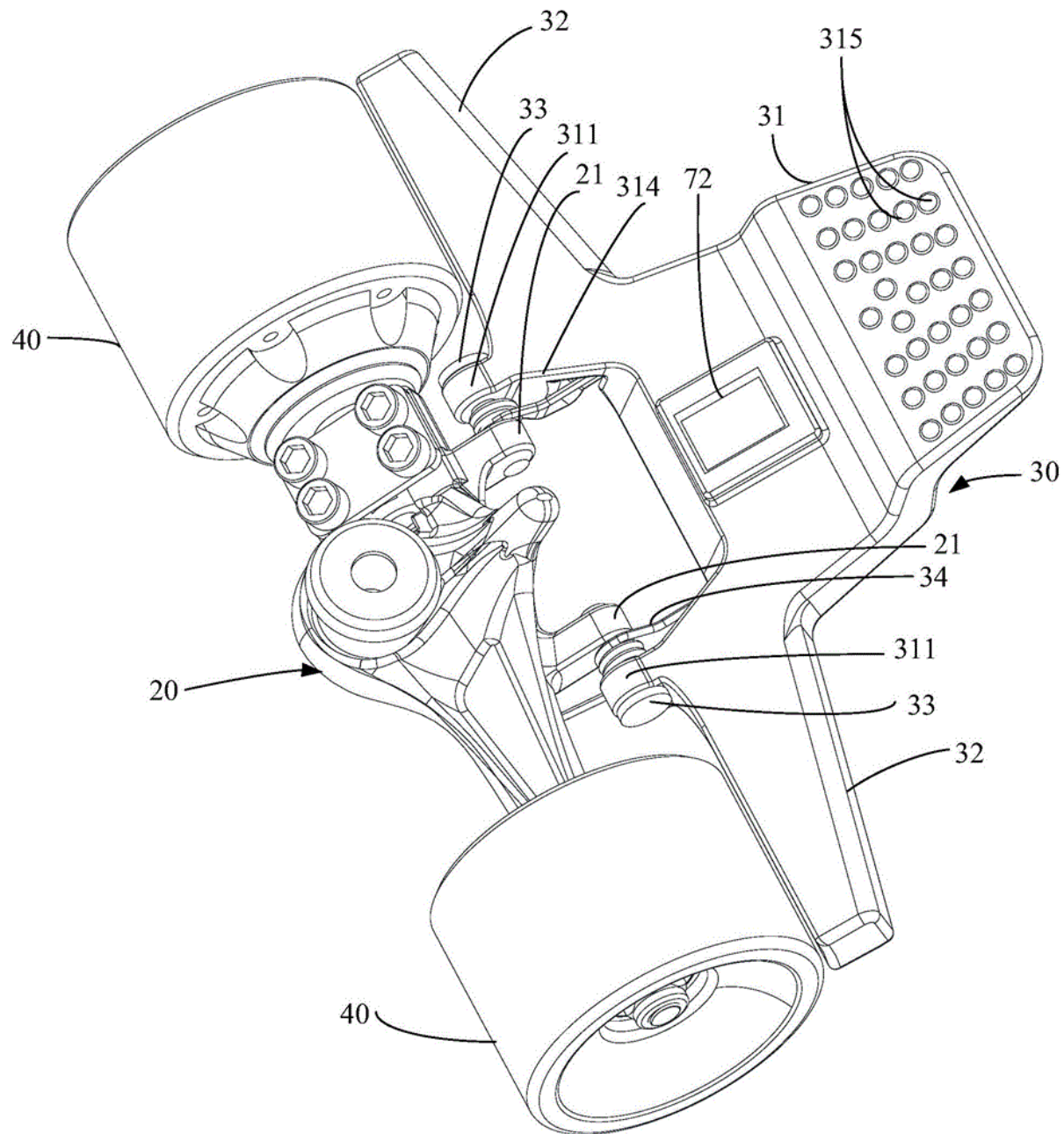
(CN2437576U)

The utility model relates to a **three-wheeled torsion scooter**. Handles penetrate through the upper and the lower parts of a shaft sleeve, a front wheel is assembled, both sides of the shaft sleeve backwards and movably pivoted with two extension rods, and the tail ends of the two extension rods are assembled with two rear wheels and a pedal. The utility model has the effect of smooth and safe operation, and toppling accidents can not easily occur, and bodies can be prevented from being hurt.

Family 84/100 - FAMPAT - ©Questel

Title

(CN208616123U)

Three-wheeled electric scooters**Images****Publication data including kind & date**[CN208616123](#)

U

2019-03-19

CN208616123U

**Abstract**

(CN208616123U)

The present utility model discloses a **three-wheeled** electric scooters, wherein the **three-wheeled** electric scooters includes pedals, a rear axle, the braking device of the end of the pedal is provided, being formed on the rear axle of the two rollers, a rear axle of the hinge axle is provided on the upper surface, the braking device includes a pressing portion and the two abutting sections of the pressed section provided in left and right sides, a pressing portion disposed on the trailing edge of one end of the pedal, the other end is hinged on a hinge, around the rear axle of the rotary shaft is rotated to, in conjunction with the pressing portion abutting portion, each of the abutting portion extends to above one of the rollers, the three-wheel electric scooters also includes a controller, a motor, and a sensing switch, the pressing part flipped down, the abutting portion abuts on the roller, an induction switch sends a signal to the controller, the motor is stopped. The present utility

model is convenient and fast braking electric scooters a three-wheel, a brake is more effective, and safer to use.

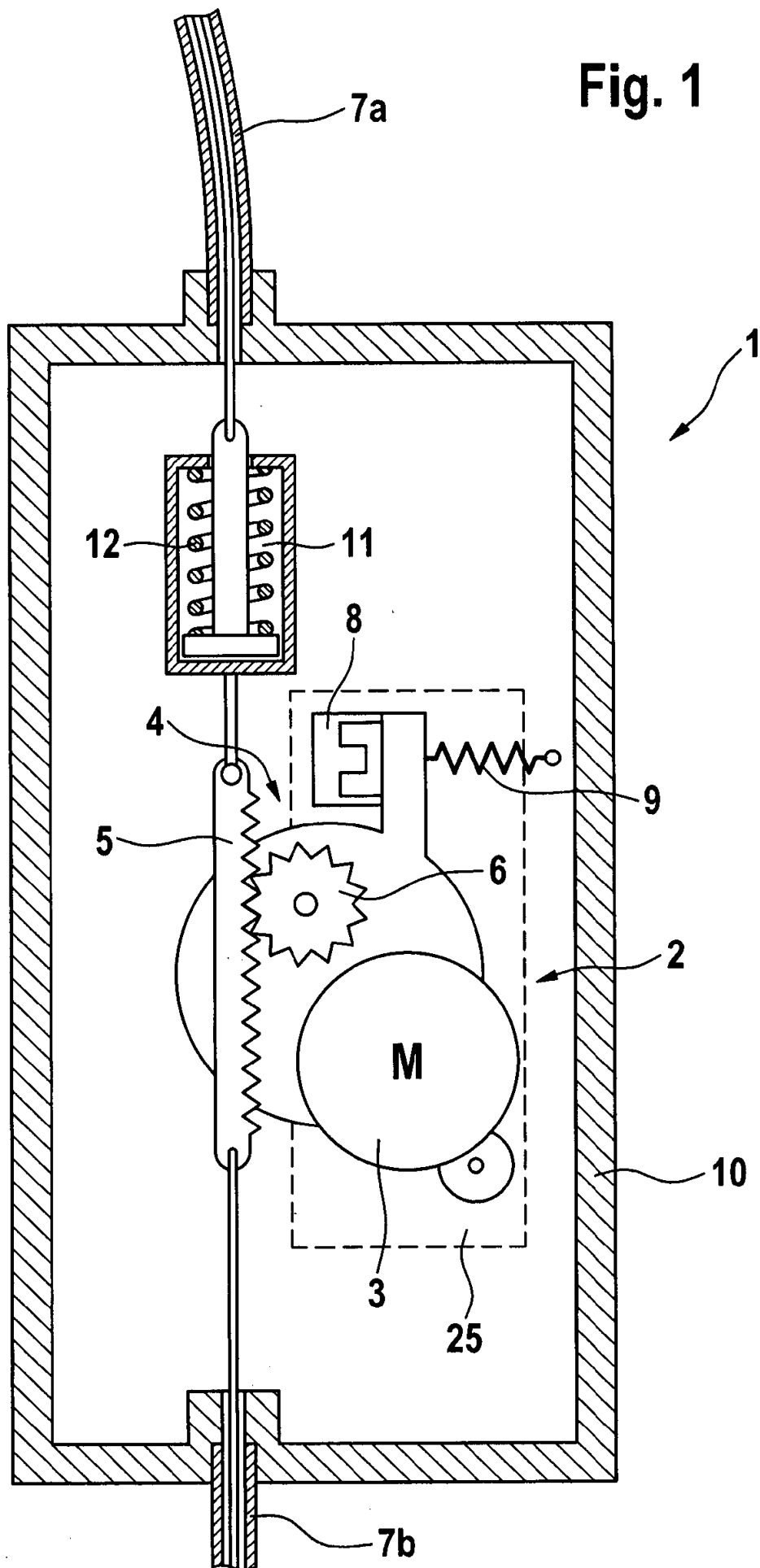
Family 85/100 - FAMPAT - ©Questel

Title

(WO201416124)

Device for a two-wheeled or **three-wheeled** vehicle, braking system and method for operating a braking system

Images

Fig. 1

Publication data including kind & date

WO2014016124

A1 2014-01-30

WO201416124



DE102013213381

A1 2014-01-30

DE102013213381

Abstract

(WO201416124)

The invention relates to a device (1) for a two-wheeled or **three-wheeled** vehicle to be disposed in or on a force-transfer device (7, 107, 207) which transfers an actuation force (F) from a brake actuating element (15, 215) to a brake (16), a force-generating device (2, 102, 202) comprising an electrically operable coupling device (4, 104, 204) which can be controlled by control electronics (25) and by means of which an electromechanical actuator can be coupled into and out of the force path of the force transfer device (7, 107, 207), wherein, when the coupling device (4, 104, 204) is in the coupled-in state, a counter force (F_{gegen}) can be generated in the force path by the electromechanical actuator against the actuation force on the brake (F_{zu}). The invention also relates to a braking system having this device. A second invention relates to a method for operating a braking system suitable for a two-wheeled or **three-wheeled** vehicle, wherein a display means (50) outputs a display signal for the availability or for the non-availability of an anti-lock control function.

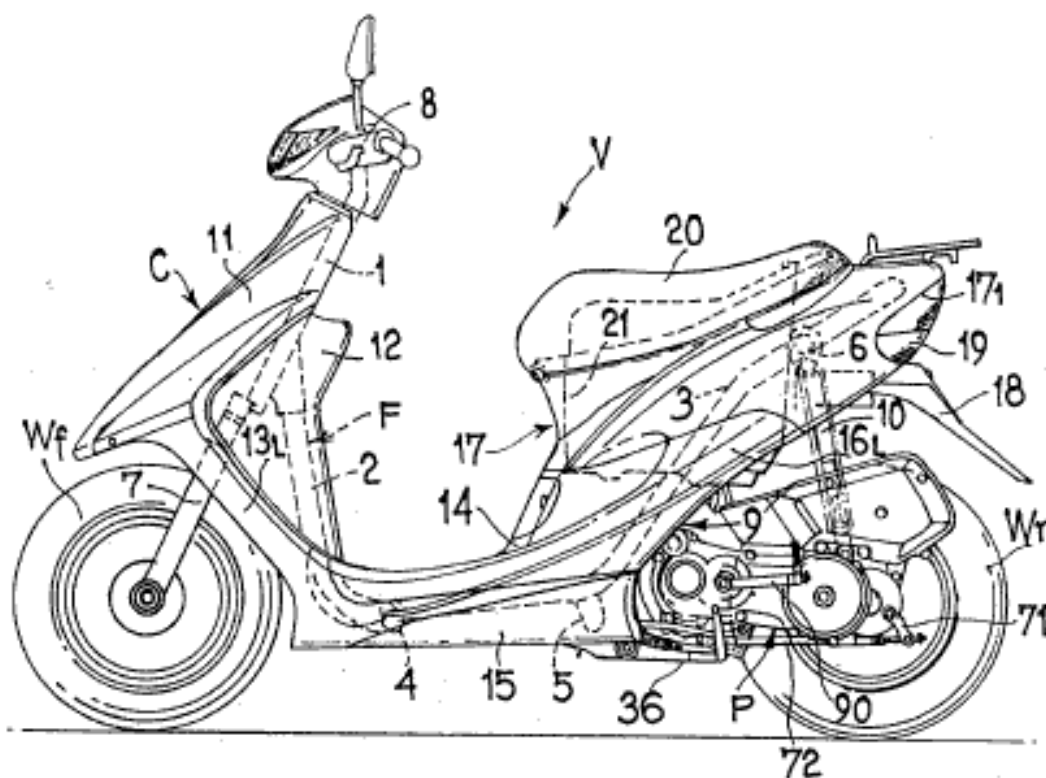
Family 86/100 - FAMPAT - ©Questel

Title

(IN-189688)

A stand stopper apparatus for a two or three wheeled motorcycle

Images



Publication data including kind & date

IN189688

B 2003-04-12

IN-189688



IN189688

A1 2014-07-18

IN-189688

Abstract

(IN-189688)

A stand stopper apparatus for a two-or three-wheeled motorcycle having a stand (36) pivotally supported on a lower portion

of a motorcycle body for swinging movement between erected and stored positions, characterized in that a stand stopper (75) is supported by a bracket (73) on a lower surface of a power unit disposed behind the stand (36), and an intermediate portion of a brake cable (72) or a brake hose extending forwardly from a rear wheel (Wr) mounted on a rear portion of said power unit (P) is supported on said bracket (73).

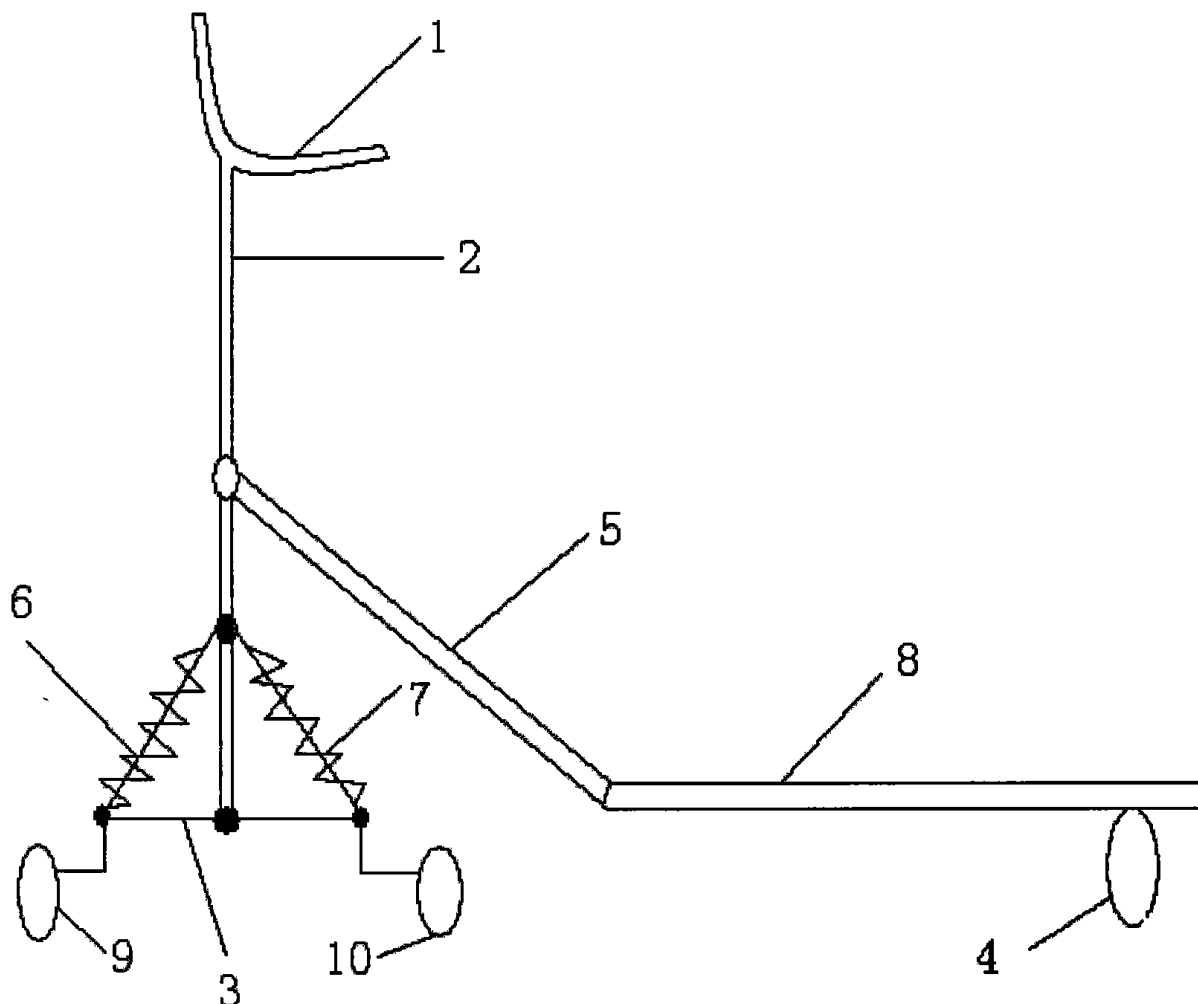
Family 87/100 - FAMPAT - ©Questel

Title

(CN101934849)

Three-wheeled scooter

Images



Publication data including kind & date

CN101934849

A 2011-01-05 CN101934849



Abstract

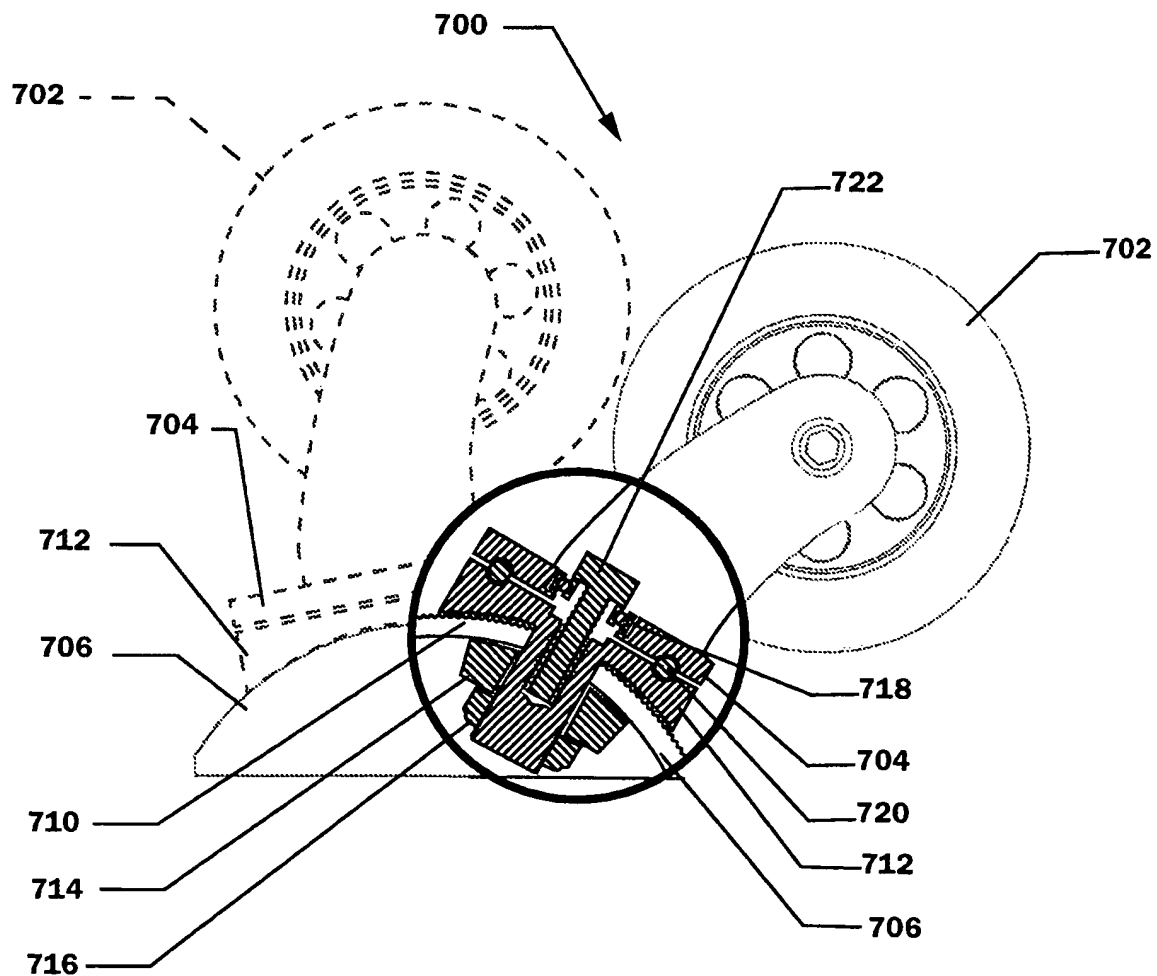
(CN101934849)

The invention refers to a **three-wheeled scooter** and belongs to the technical field of **scooter** structures. The **three-wheeled scooter** comprises a handle and a handle standpipe which are structured integrally. The **three-wheeled scooter** is characterized in that: the end of the handle standpipe is movably connected with an axle shaft; the handle standpipe can be slanted rightwards and leftwards around a movable connecting point; two shock absorbing springs are connected between the right and left ends of the axle shaft and the handle standpipe respectively; one end of each of the two shock absorbing springs is fixedly connected with the handle standpipe while the other end is fixedly connected with the right and left ends of the axle shaft; two front wheels are respectively connected to the fixed connecting points of the right and left ends of the axle shaft; and the handle standpipe is connected with a frame having a rear wheel and used for supporting a human body through a sleeve. The **three-wheeled scooter** of the invention is reasonably designed, can move forwards by rotating the handle and changing the gravity of the body without keeping feet on the ground, is force-saving and recreational and has a body-building function.

Family 88/100 - FAMPAT - ©Questel

Title

(EP2186553)

Three-wheeled skateboard system and method**Images****Publication data including kind & date**

CN201441808	U	2010-04-28	CN201441808U
US20100117317	A1	2010-05-13	US20100117317
EP2186553	A1	2010-05-19	EP2186553
WO2010055372	A1	2010-05-20	WO2010055372
US20100289237	A1	2010-11-18	US20100289237
US20110133420	A1	2011-06-09	US20110133420
US8075006	B2	2011-12-13	US8075006
JP2012500079	A	2012-01-05	JP2012500079

**Abstract**

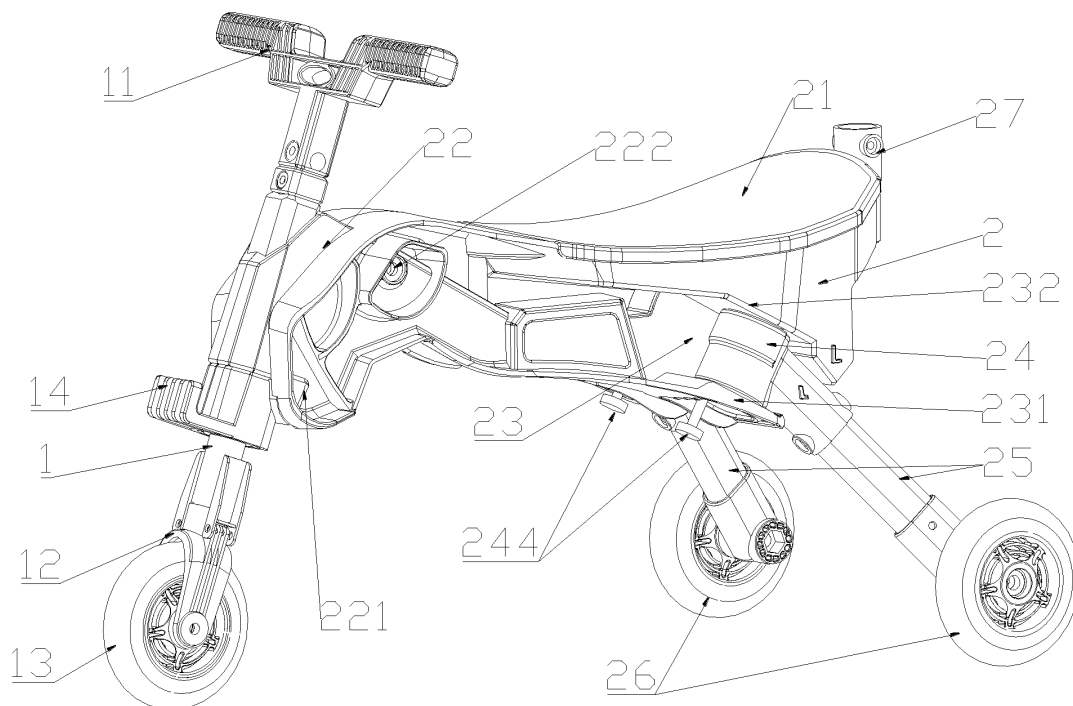
(EP2186553)

A system and method for a skateboard (300;350) and for propelling the skateboard, The skateboard system includes a board including a first end and a second end, the first end offset from the second end, and the second end defining a board plane. The skateboard system also includes a truck assembly (304;352) attached near the first end of the board, and a caster assembly (302;354;500;602;700) attached near the second end of the board. The caster assembly has a caster pin at an angle with respect to the board plane. Other embodiments are also disclosed.

Family 89/100 - FAMPAT - ©Questel

Title

(US20180257727)

Foldable **three-wheeled scooter****Images****Publication data including kind & date**[US20180257727](#)

A1 2018-09-13

US20180257727

**Abstract**

(US20180257727)

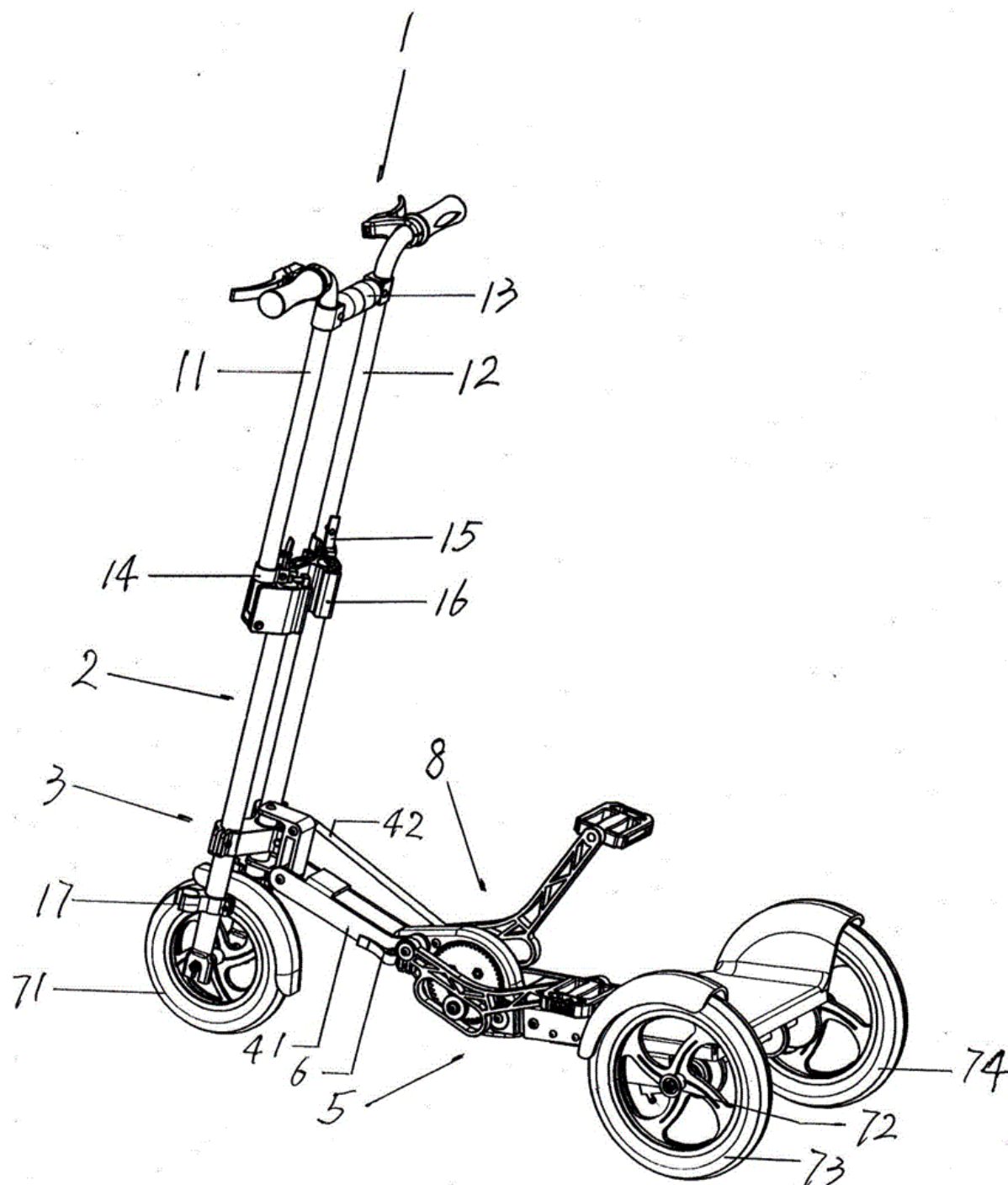
The present application discloses a foldable **three-wheeled scooter**, including a front fork and a frame. A handle bar is provided at the upper end of the front fork, a front wheel is connected to lower end of the front fork by front wheel bracket, and a saddle is provided on the frame. A vertical 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.

Family 90/100 - FAMPAT - ©Questel

Title

(CN106672150)

Suspension type portable **three-wheeled** pedal bike with folding handlebar**Images**



Publication data including kind & date

CN106672150

A 2017-05-17 CN106672150



Abstract

(CN106672150)

A suspension type portable **three-wheeled** pedal bike with a folding handlebar comprises a quick folding handlebar, a front fork, a front frame, a lower connecting rod, an upper connecting rod, a body, a quick release device, a front wheel, a rear axle shaft, a left rear wheel, a right rear wheel and a driving mechanism. The front frame is formed by connecting a front connecting piece, a rotating part and a rear connecting piece, the lower connecting rod is connected with the rear connecting piece and a positioning shaft, the upper connecting rod is connected with the rear connecting piece and a vehicle body master piece, a vehicle body is formed by connecting the vehicle body master piece, a front bearing, a pressure ring, two rear bearings, a bearing pedestal, the positioning shaft, a suspension block, a left wheel fork, a right wheel fork, a suspension catch and a rear panel, the quick release device is connected below the front end of the vehicle body master piece and locked to the rear end of the rear axle shaft, the front wheel is installed on the front fork, the rear axle shaft is installed at the rear ends of the left and right wheel forks, the left rear wheel and the right rear wheel are connected to the both ends of the rear axle shaft, and the driving mechanism comprises a tread bar, a pedal, a crankshaft

gear set, a rear gear set, a flywheel and a chain.

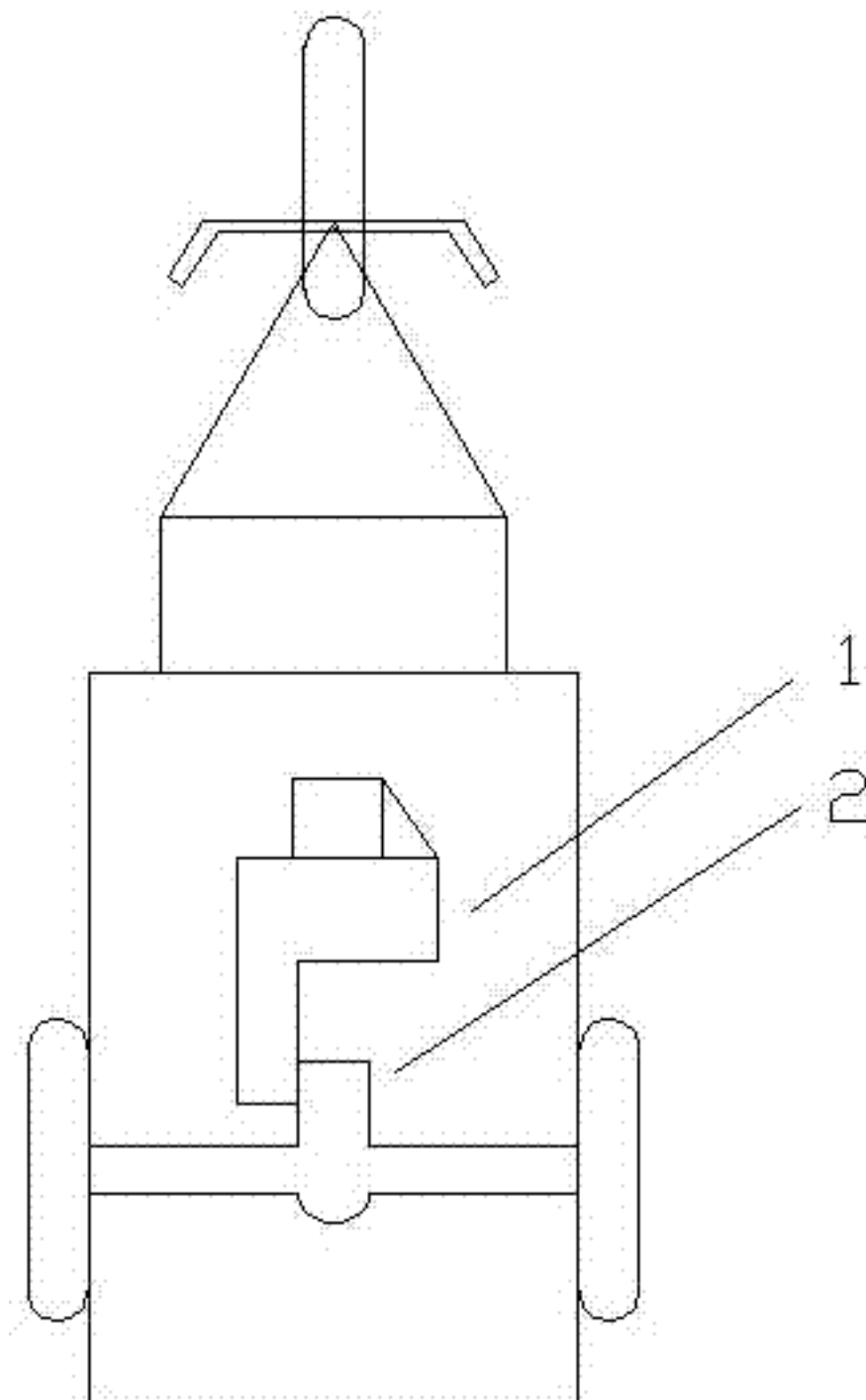
Family 91/100 - FAMPAT - ©Questel

Title

(CN108860406)

three wheeled motorcycle

Images



Publication data including kind & date

CN108860406

A 2018-11-23 CN108860406



Abstract

(CN108860406)

a scooter motorcycle stepless speed change engine is connected or manufactured together with the variable speed differential device on the rear axle of a three-wheeled motorcycle. The scooter motorcycle stepless speed change engine drives the variable speed differential device. The variable speed differential device is provided with the reverse gear function; when the three-wheeled motorcycle is used in mountainous conditions, the variable speed differential device can

have a high speed forward speed and a low speed forward speed; the **three-wheeled** motorcycle adopts a **scooter** stepless speed change engine, which effectively reduces the learning use and daily driving difficulty of the **three-wheeled** motorcycle, and effectively avoids excessive wear and damage of the engine caused by improper operation of the user.

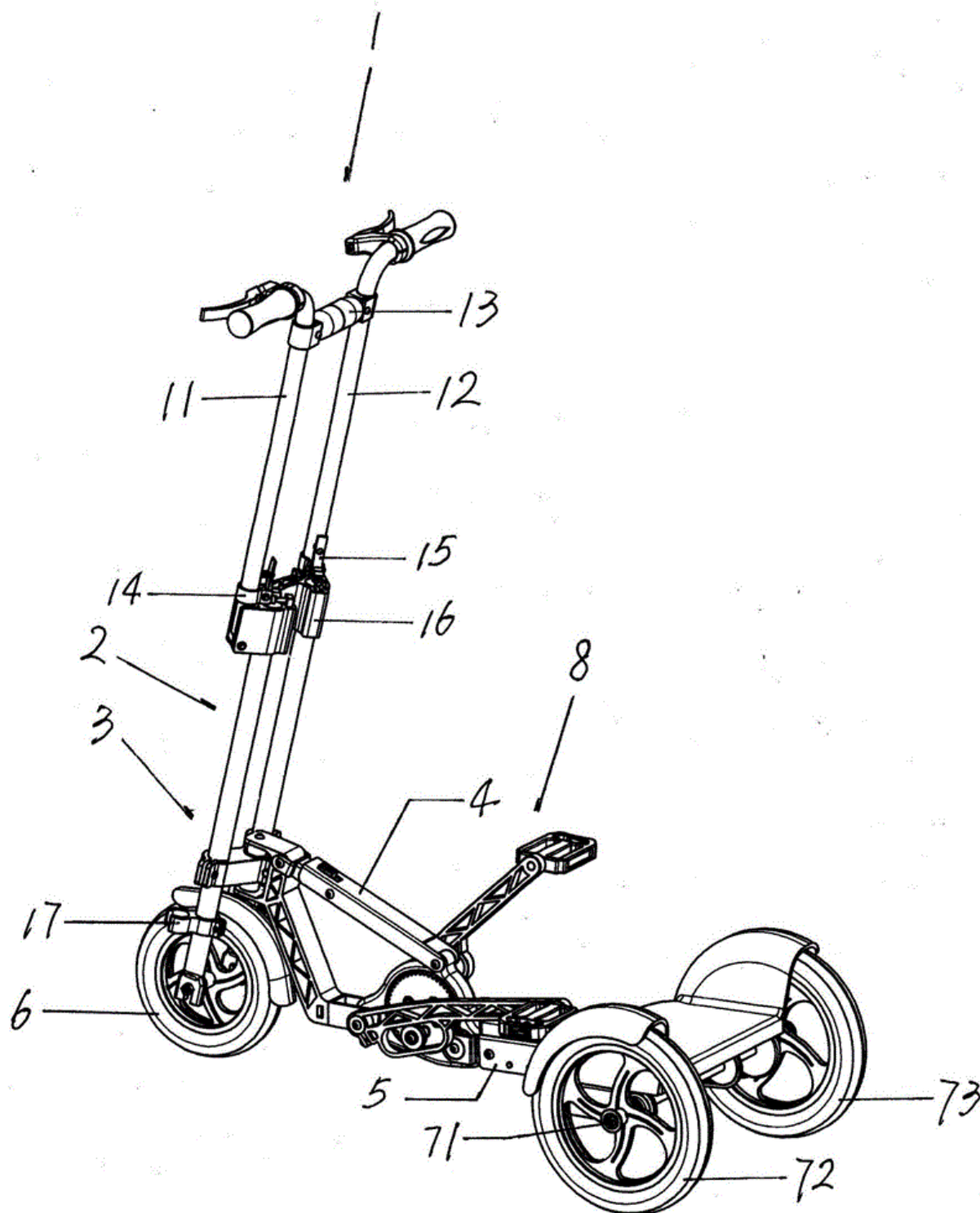
Family 92/100 - FAMPAT - ©Questel

Title

(CN106672136)

Suspension **three-wheeled** pedal bike with quick folding handlebar

Images



Publication data including kind & date

[CN106672136](#)

A

2017-05-17

CN106672136



Abstract

(CN106672136)

A suspension **three-wheeled** pedal bike with a quick folding handlebar comprises the quick folding handlebar, a front fork rod, a front frame, a folding connecting rod, a bike body, a front wheel, a rear wheel axle, a left rear wheel, a right rear wheel and a driving mechanism; the front frame is formed by connecting a front connecting piece, a rotating part, a rear connecting piece and a groove-shaped connecting piece; the groove-shaped connecting piece is connected with a locating shaft; the front end and the rear end of the folding connecting rod are respectively connected with the rear connecting piece and a bike body main piece; a front rod and a rear rod of the folding connecting rod can be locked with each other; the bike body is formed by connecting the bike body main piece, a front bearing, a pressing ring, two rear bearings, a bearing seat, the locating shaft, a suspension block, a left wheel fork, a right wheel fork, a suspension stopping piece and a rear panel; the front wheel is mounted on a front shaft; the rear wheel axle is mounted at the rear ends of the left wheel fork and the right wheel fork; the left rear wheel and the right rear wheel are connected to the two ends of the rear wheel axle; and the driving mechanism comprises a pedal lever, a pedal, a crankshaft gear set, a rear gear set, a flywheel and a chain.

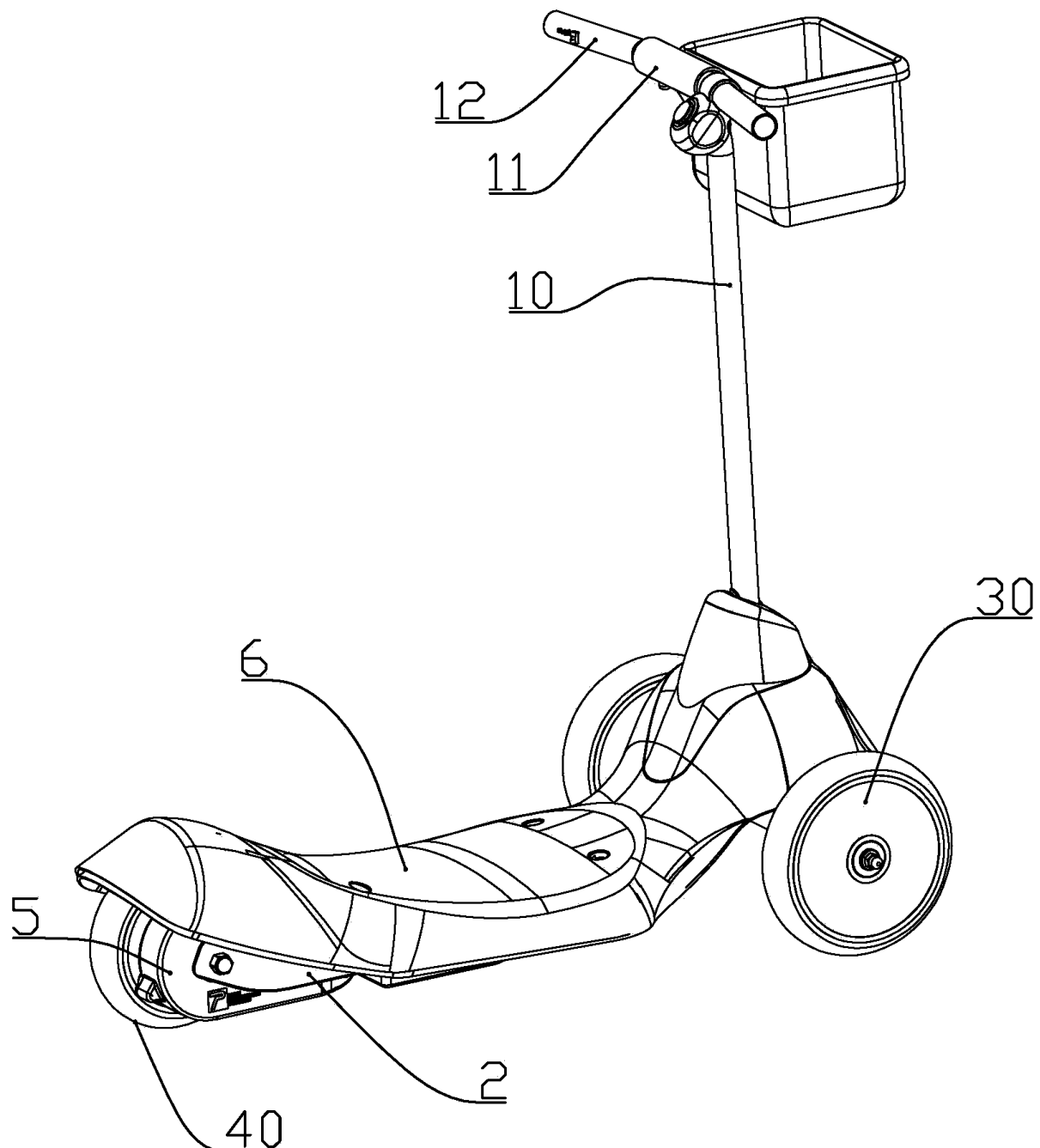
Family 93/100 - FAMPAT - ©Questel

Title

(CN203888953U)

Three-wheeled electric **scooter**

Images



Publication data including kind & date

CN203888953

U 2014-10-22

CN203888953U

**Abstract**

(CN203888953U)

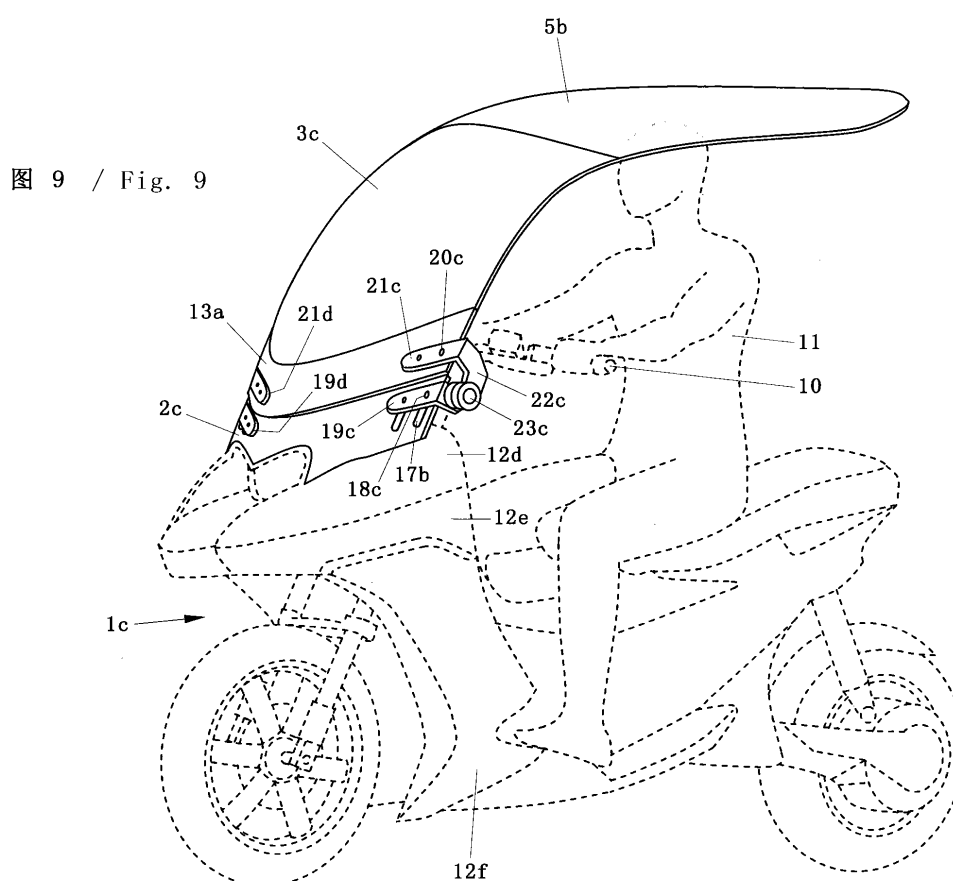
The utility model discloses a **three-wheeled electric scooter**. The **three-wheeled electric scooter** comprises a frame, two front wheels mounted on the front portion of the frame, a rear wheel mounted on the rear portion of the frame, a driving device mounted on one side of the rear wheel of the frame, a power box mounted in the middle of the frame, and a **scooter** shell which is mounted above the frame and can cover the power box, the driving device and the rear wheel. A battery and a controller of the **scooter** are integrated in the power box, a motor and a gearbox are assembled together, so that the integration level is high, and entire **scooter** assembling can be facilitated. An area which is defined by a supporting tube of the frame and a rear connecting plate can just be used for containing the power box, positioning is convenient in the mounting process, by the adoption of the mounting mode of the gearbox, the rear wheel can be taken apart conveniently, and as long as a rear wheel axle is taken out, the rear wheel can be separated from the gearbox.

Family 94/100 - FAMPAT - ©Questel

Title

(WO201600436)

Wind, rain, and sunlight shield apparatus for bicycles and tricycles

Images**Publication data including kind & date**

WO2016000436

A1 2016-01-07

WO201600436

CN105270520

A 2016-01-27

CN105270520

**Abstract**

(WO201600436)

A wind, rain, and sunlight shield apparatus for bicycles and tricycles. The invention uses a beamless panel-type vehicle top (5b) that has a connected front, a suspended rear, and an adjustable height. According to the driver's height, the height of

the vehicle top (5b) can be adjusted by means of a height adjustable structure of the front windshield glass (3c). To facilitate the driver with mounting and dismounting the vehicle, the vehicle top (5b) can be folded up or down or be locked by means of a rotatable frame at the front end of the beamless vehicle top (5b) or at the lower end of the front windshield glass (3c). The invention can effectively shield against wind, rain, and sunlight, and can be conveniently and universally applied to existing open bicycles and tricycles by direct connections, thereby not altering the production molds for existing components related to the vehicle frame and overall vehicle shape.

Family 95/100 - FAMPAT - ©Questel

Title

(CN201941910U)

Foldable **three-wheeled scooter**

Publication data including kind & date

[CN201941910](#)

U

2011-08-24

CN201941910U



Abstract

(CN201941910U)

The utility model relates to a foldable **three-wheeled scooter** which comprises a handle, an upright stanchion, a connecting piece, a left supporting pole, a right supporting pole, a foot board, a front wheel and a universal rear wheel. The foldable **three-wheeled scooter** is characterized in that the connecting piece comprises an inclined tube group and a joint seat group, the inclined tube group is connected with the lower end of the upright stanchion, and the joint seat group used for limiting is connected with the left supporting pole and the right supporting pole; two connecting ears formed in parallel are fixed on the inclined tube group; the joint seat group comprises a folding seat and an arc-shaped connecting plate, the folding seat can hold the left supporting pole and the right supporting pole, and the arc-shaped connecting plate is fixed on the upper surface of the folding seat and is matched with the connecting ears in a lapping manner; the connecting ears and the arc-shaped connecting plate can form a hinge point by a first twin locking screw bolt through first hinge holes and second hinge holes, and the first hinge holes and the second hinge holes are respectively formed on the upper surfaces of the connecting ears and the arc-shaped connecting plate; and a groove-pin matching connecting mechanism used for locking or releasing the arc-shaped connecting plate and the connecting ears is arranged on the arc-shaped connecting plate and the connecting ears. A folding device of the foldable **three-wheeled scooter** adopts a structure combining a connecting groove, a spring and an oblique block, has the advantages of simple structure and reliable connection, and is convenient to dispart and unite; in addition, a supporting pole limiting device has a simple and reliable structure.

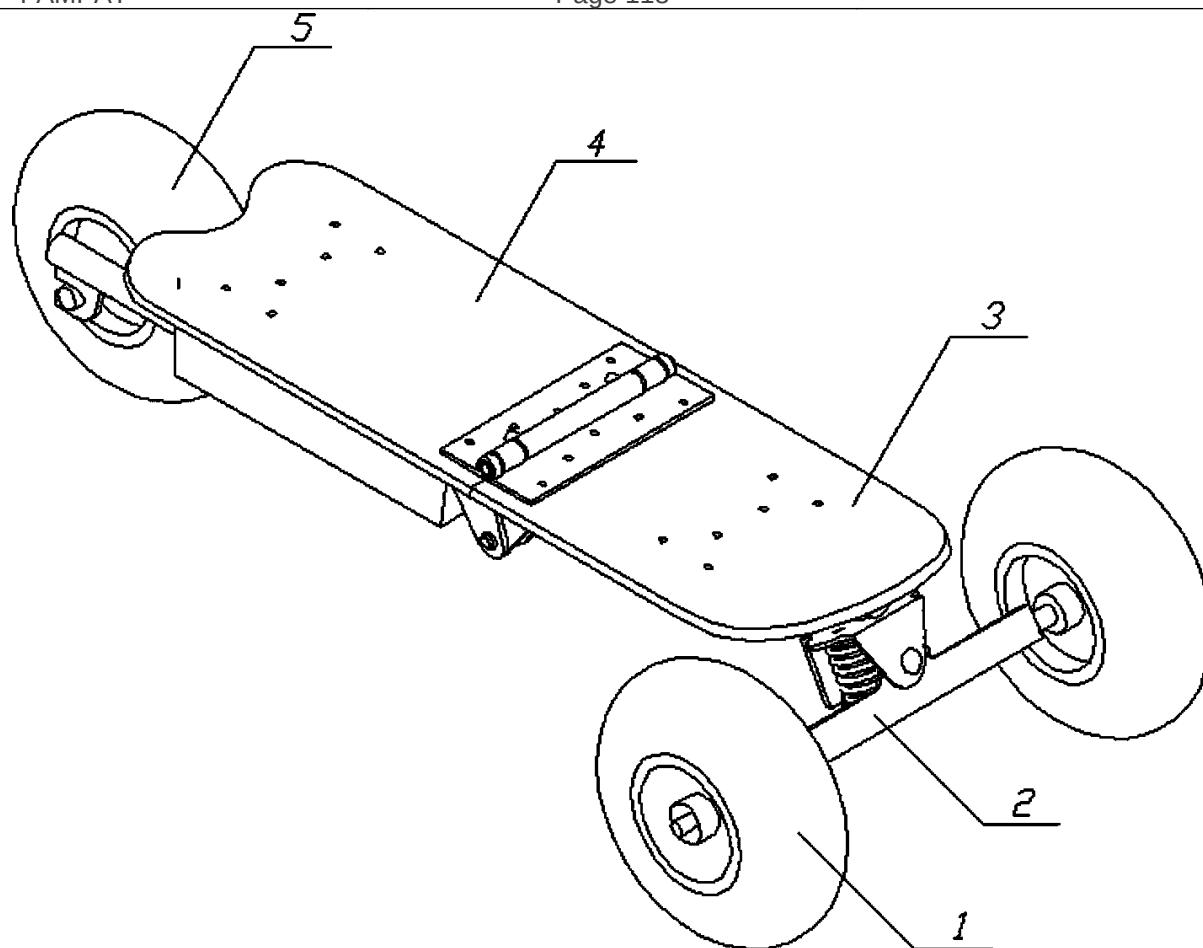
Family 96/100 - FAMPAT - ©Questel

Title

(CN104117199)

Foldable reversed **three-wheeled scooter**

Images

**Publication data including kind & date**[CN104117199](#)

A

2014-10-29

CN104117199

**Abstract**

(CN104117199)

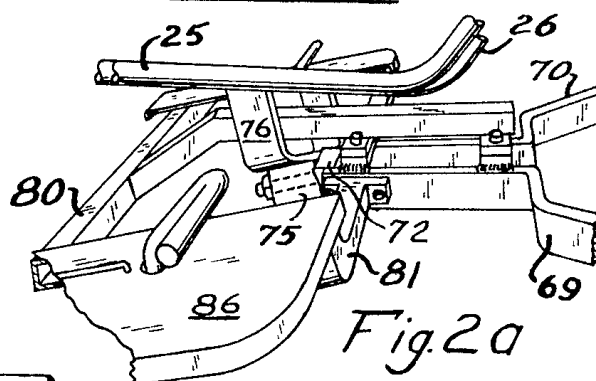
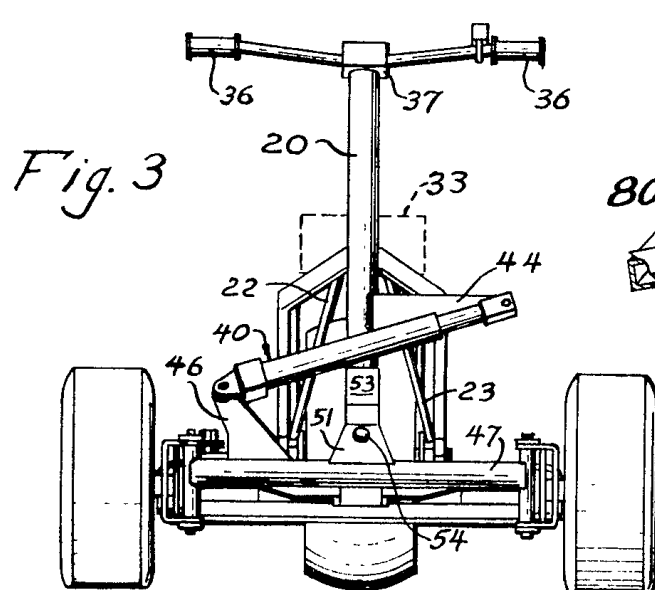
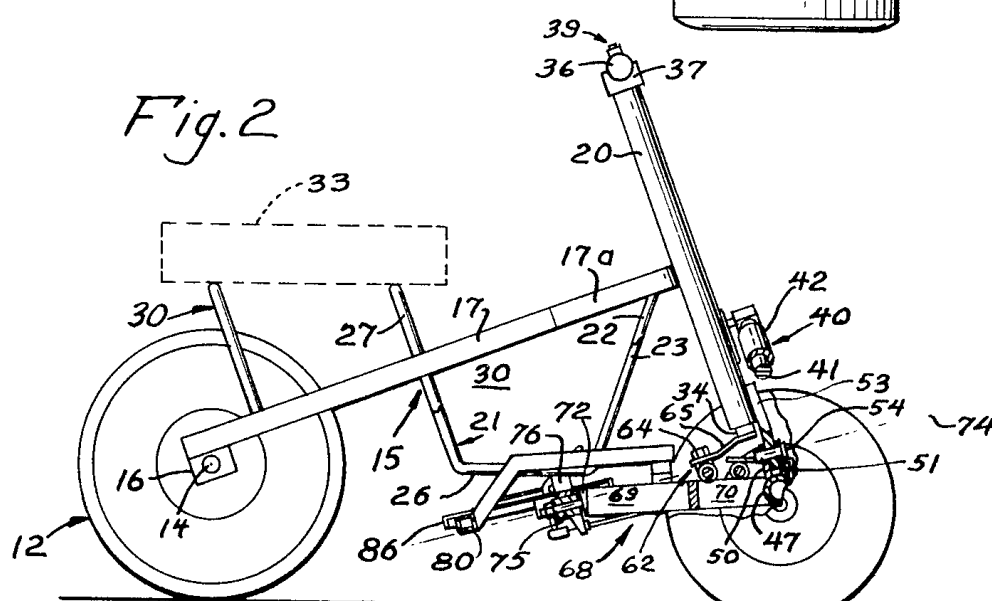
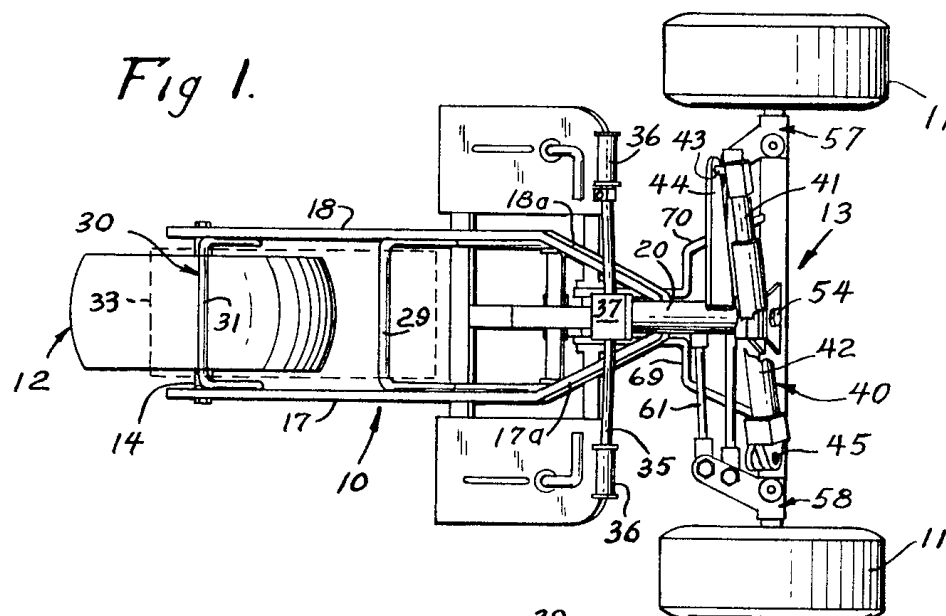
The invention provides a foldable reversed **three-wheeled scooter**. The foldable reversed **three-wheeled scooter** comprises a front wheel, a steering device, driving rear wheels, a front pedal, a rear pedal, a front suspension, a rear suspension, a battery cabin, a handle pull rod, an upper hinge and a lower hinge, wherein the front wheel is mounted on the steering device; the steering device is fixedly arranged on the front suspension; the front suspension is fixedly arranged on the front pedal; the driving rear wheels are mounted on the rear suspension; the rear suspension is fixedly arranged on the rear pedal; the battery cabin is fixedly arranged on the rear pedal; the handle pull rod is arranged in a hollow circular pipe of the front suspension; the upper hinge and the lower hinge are connected with the front pedal and the rear pedal. The foldable reversed **three-wheeled scooter** is simple in structure, is light and practical and is convenient to carry when a user goes out.

Family 97/100 - FAMPAT - ©Questel

Title

(US3746118)

Three-wheeled vehicle with passenger banking**Images**



INVENTOR.
EDWARD J. ALTORFER

BY Dawson, Tilton,
Fallon and Lungmus
Atty's.

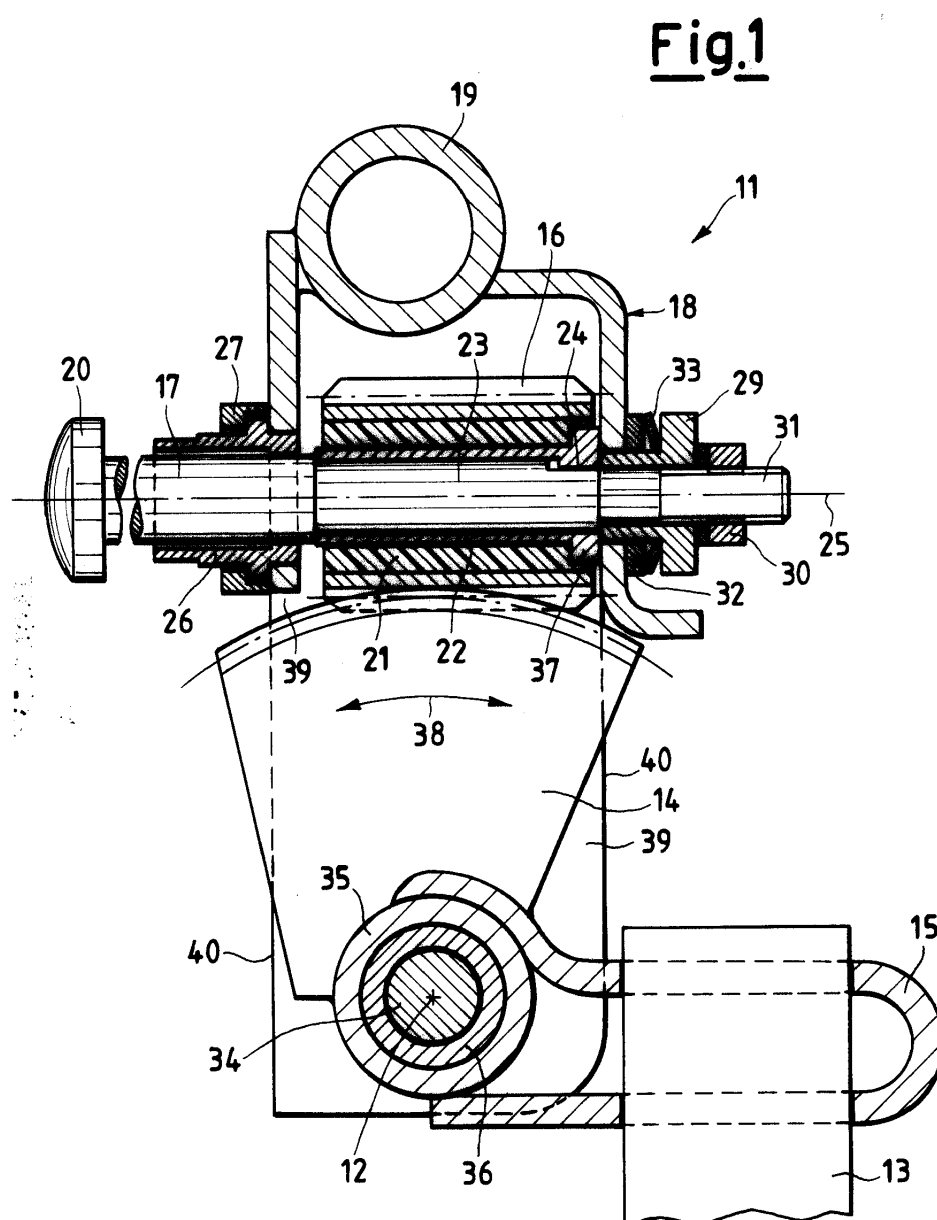
(US3746118)

A **three-wheeled** vehicle is disclosed having two front wheels connected by means of an axle and a single powered rear wheel centered between the two front wheels. A steering column is connected to a frame which supports the engine and the rider, and the lower end of the steering column is pivotally connected to the front axle assembly. Foot pedals are provided on either side of the engine frame--one is for acceleration and the other is for braking. Both foot pedals are attached to a support which is connected to the front axle assembly. The bottom of the engine frame is pivotally connected to a yoke at a location rearward of the front wheels. A power-actuated mechanism banks the steering column and engine frame about an inclined bank axis when the vehicle is turned to enhance the stability of the vehicle and the comfort of the rider.

Family 98/100 - FAMPAT - ©Questel

Title

(IN-216104)

A device for regulating the position of a steering bar of a two-wheeled or **three-wheeled** vehicle**Images****Publication data including kind & date**

ITMI990821

A1 2000-10-20

IT99MI0821

TW449561

B 2001-08-11

TW-449561



IT1312192

B1 2002-04-09 IT1312192

IN0911/DEL/1999

A 2005-06-24 IN1999DE00911

IN216104

B 2008-03-21 IN-216104

**Abstract**

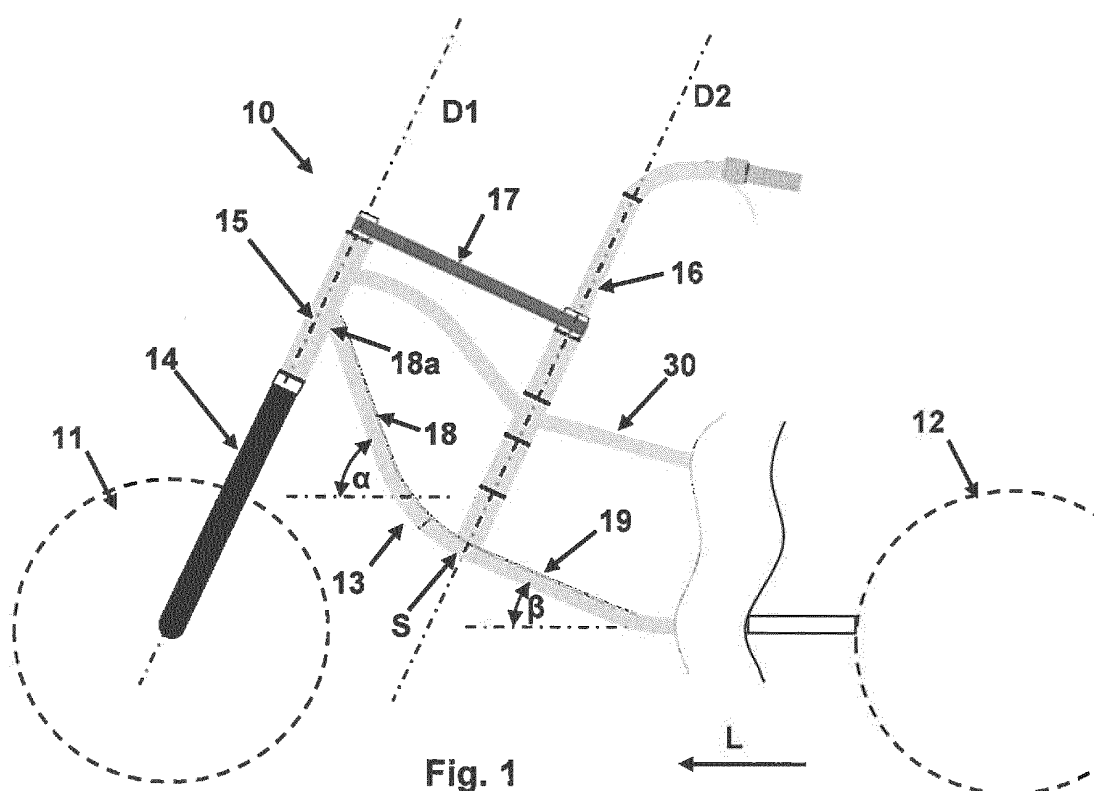
(IN-216104)

A device for regulating the position of a steering bar in a two-wheeled or **three-wheeled** vehicle with respect to a steering column (13), comprising a support (18) for a steering bar (19) pinned (at 34) with respect to an extension (15) of the steering column (13), between a support (18) for a steering bar (19) and an extension (15) of the steering column (13), which provides for certain devices (14, 16, 17, 20) allowing a predetermined rotation of the support (18) for the steering bar (19) with respect to the extension (15) of the steering column (13) in a plane essentially corresponding to the direction of forward motion of the vehicle. In particular, these devices comprise on one hand a toothed sector (14) and on the other hand a worm screw (16) engaging with each other and firmly attached, one to the extension (15) and the other to the support (18) for the steering bar (19). The device also provides for a hand-wheel (20) to allow a manual rotation.

Family 99/100 - FAMPAT - ©Questel

Title

(WO201872918)

Scooter with foot rest arrangement**Images****Publication data including kind & date**

DE102016220383

A1 2018-04-19 DE102016220383

WO2018/072918

A1 2018-04-26 WO201872918

CN109476354

A 2019-03-15 CN109476354

**Abstract**

(WO201872918)

The invention relates to a **scooter** (10) having: a foot rest arrangement (13) comprising a left foot rest surface (13a) and a right foot rest surface (13b); a steerable front wheel guide (14) that mounted in a head tube (15) so as to be rotatable about

a first axis of rotation (D1); and a steering column (16) that can be rotated about a second axis of rotation (D2), wherein the steering column and the front wheel guide are spaced apart from each other and are operatively coupled to each other to transfer a steering movement. The second axis of rotation intersects the foot rest arrangement at an intersection point (S) in such a way that the left and right foot rest surfaces are arranged on either side of the intersection point.

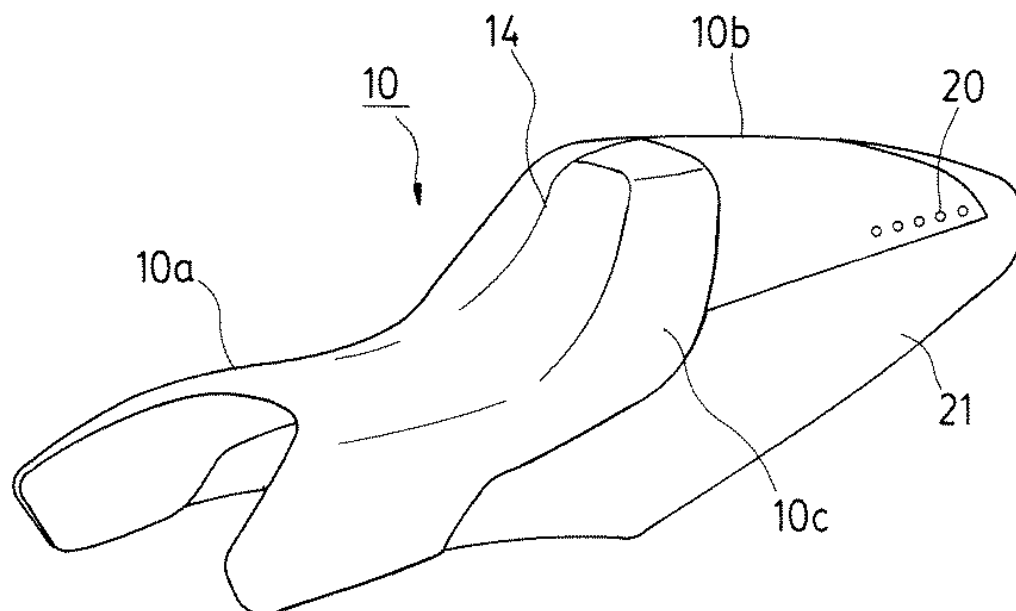
Family 100/100 - FAMPAT - ©Questel

Title

(JP2005125865)

Seat for motorcycle and **three-wheeled** motorcycle

Images

**Publication data including kind & date**[JP2005125865](#)

A

2005-05-19

JP2005125865

**Abstract**

(JP2005125865)

PROBLEM TO BE SOLVED: To provide a seat for a motorcycle and a **three-wheeled** motorcycle, superior in design property for keeping an optimal driving posture.

SOLUTION: This seat 10 for a motorcycle and a **three-wheeled** motorcycle is formed by covering a cushion material with a surface skin material by arranging the cushion material on a bottom plate. A front seat 10a and a rear seat 10b are integrally constituted in this rear seat 10. The rear seat 10b is constituted so as to have the same color as a cowl 21 equipped in the motorcycle and the **three-wheeled** motorcycle, and have an integral appearance with the cowl 21. An inclined face 10c is formed between the front seat 10a and the rear seat 10b. A backrest 14 is integrally formed on this inclined face 10c.

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