

18 Documents

Publication numbers	Title	Current assignees
CN206615324U U	Bicycle electromagnetism seismic isolation device	HU JIE, ...
JP3135452U U	Flash lamp for a bicycle seat	ACXING INDUSTRY
CN201042990U Y	Bicycle wheel lighting structure	ACXING INDUSTRIAL
CN204979056U U	Folding bicycle	Huang
CN204415634U U	Portable four-linkage folding up-down pedaling type bicycle	TAICANG CHEZHONGBAO LEISURE ARTICLES
CN104554574 A	Portable four-link folding up- and down-pedaling bicycle	ANXI COUNTY SENZHIWEI EDIBLE PROFESSIONAL COOPERATIVES
CN2478809U Y	Luminous warning device for wheel	LIU ZIWEN, ...
US20050169004 A1	Luminous warning device for making presence of a vehicle conspicuous	LIU TZU-WEN, ...
CN207191285U U	Electric bicycle turns to device that reduces helping hand	ZHEJIANG KAI CHI ELECTRIC TECHNOLOGY
CN2309263U Y	Warning lamp for bicycle	SU HONGYU
WO201122882 A1	Power generation device for bicycle	HSUEH WEN-HSIUNG
CN206307213U U	Novel climbing bicycle electricity generation shock attenuation front fork	SHANDONG UNIVERSITY OF SCIENCE & TECHNOLOGY
CN2216025U Y	Accumulator type moving magnet power generation illuminator	ZHONG RUIFENG
DE102016001843 A1	Bicycle	TECHNISCHE HOCHSCHULE KOELN
US4825156 A	Signal detector for cycle computer with releasable strap frame mounting	BANK OF AMERICA
CN2608079U Y	Improved structure of sensor for sporting equipment	JIN YI ELECTRONICS
CN103935436 A	Two-wheel motorcycle provided with pull rod steering device and foot-control supporting wheels and used in opening and closing mode	LI FENGYUN
TW200829475 A	Has to suppose from electricity generation caution light front fork installment	SPINNER INDUSTRY

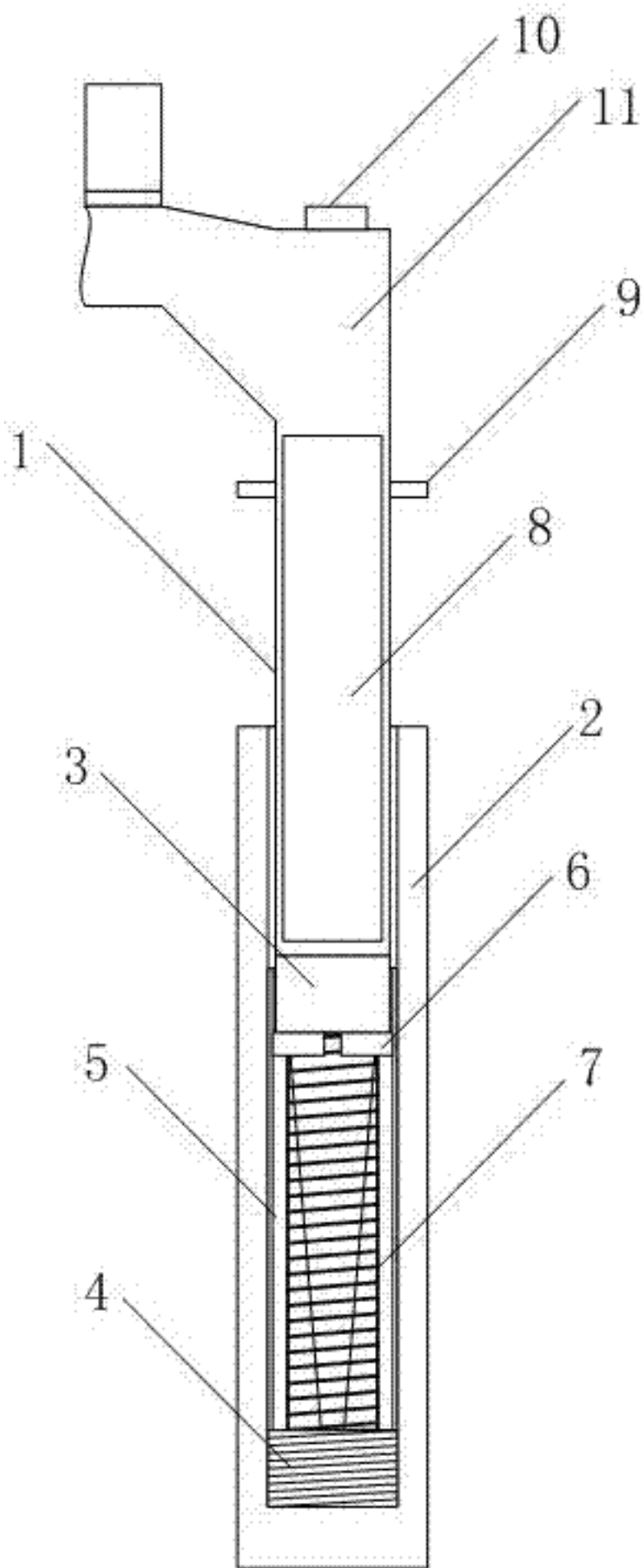
Family 1/18 - FAMPAT - ©Questel

Title

(CN206615324U)

Bicycle electromagnetism seismic isolation device

Images



(CN206615324U)

The utility model provides a **bicycle** electromagnetism seismic isolation device, including inner tube, pitchfork cylindrical, permanent magnet, electro -magnet, two conductive sliding rail, two electrically conductive flexure strips and battery, it is intraductal including the battery installation, the lower extreme cartridge of inner tube is in pitchfork cylindrical's jack, permanent magnet fixed mounting serves at the lower of inner tube, electro -magnet fixed mounting is in pitchfork cylindrical's jack bottom, two conductive sliding rail difference vertical installation are on pitchfork cylindrical's jack inner wall, two electrically conductive flexure strips are installed in the below of permanent magnet, and respectively with two conductive sliding rail springiness contact, the positive negative pole of battery links to each other with two electrically conductive flexure strips respectively, two conductive sliding rail's lower extreme is continuous with the positive negative pole of electro -magnet respectively. Resistance during this **bicycle** electromagnetism seismic isolation device can reduce the return circuit at the in -process of electrically conductive flexure strip gliding to increase the electric current of the electro -magnet of flowing through, increase the magnetic force between permanent magnet and the electro -magnet, realize effect of shock absorbers, and vibrations magnetic force big more is also big more.

Inventors

HUANG TIANJIAN

HU JIE

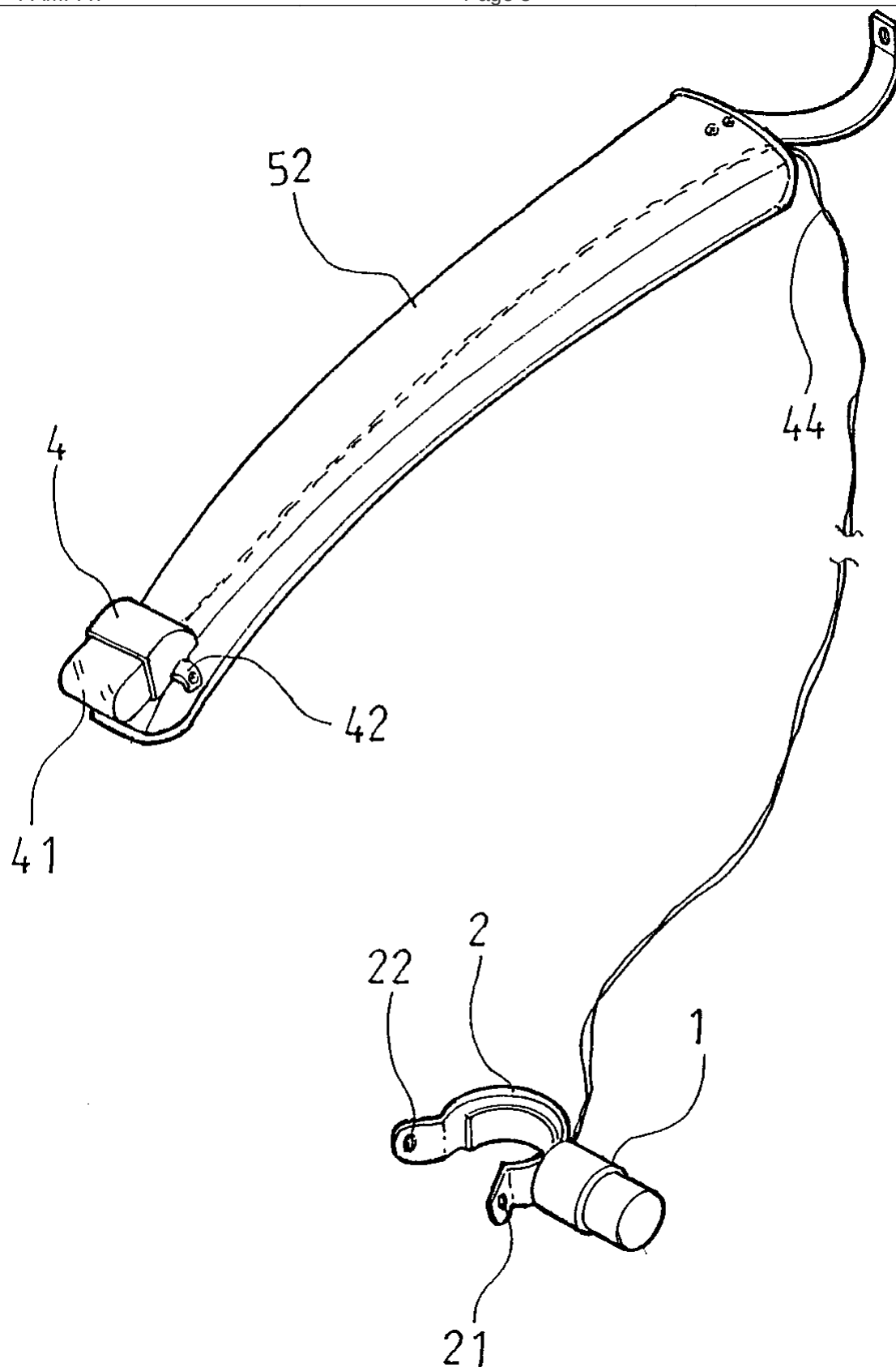
Family 2/18 - FAMPAT - ©Questel

Title

(DE202008004221)

Flash lamp for a **bicycle** seat

Images



Publication data including kind & date

JP3135452	U	2007-09-13	JP3135452U
TWM320521	U	2007-10-11	TWM320521
DE202008004221	U1	2008-07-03	DE202008004221



Abstract

(DE202008004221)

A safety flashing lamp for a **bicycle**, constituted by a body (1), a winding coil (11) is mounted to, the Magnet (7) for generating a voltage is induced, while one end of the spool (11) with a clamp member (2) for attachment to a leg of the **bicycle** (5) is provided; and a lamp seat (4), a control circuit and (45) a light emitting element (43) are arranged in the,

wherein the control circuit (45) is connected to the coil (11) of the body (1); when assembling the aforementioned components may be provided for a **bicycle** safety flasher lamp, characterized in, a rear portion of (2) the body (1) with the clamping leg of the **bicycle** (5) can be secured, the lamp seat (4) mounted over the rear wheel mudflaps (42) to at least one Magnet (7) and the steel wire (53) in a proper position of the seat (5) of the wheel is, so that during driving the coil of (11) the **bicycle**...

Inventors

Lee wellhead

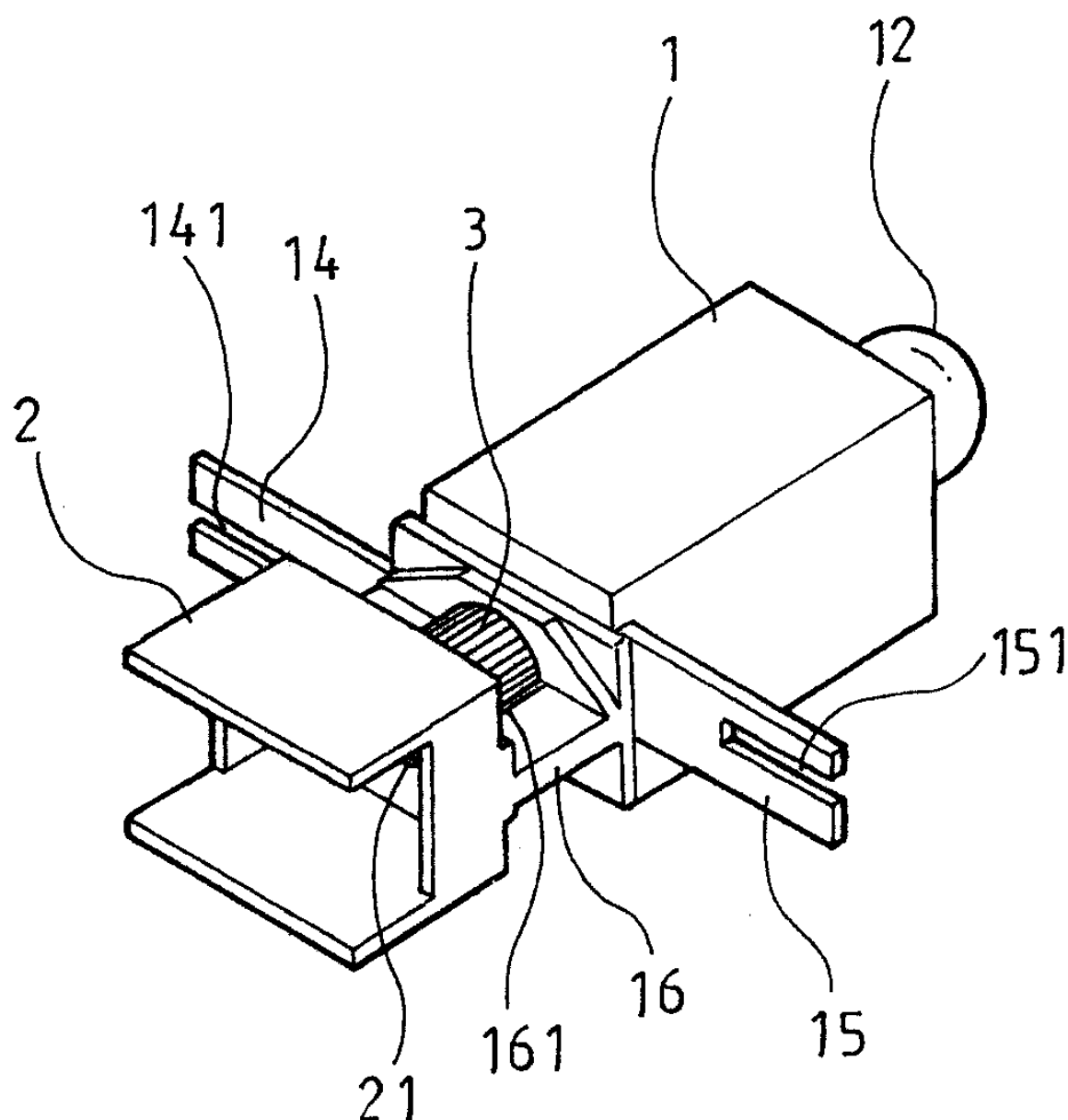
Latest standardized assignees - inventors removed

ACXING INDUSTRY

Family 3/18 - FAMPAT - ©Questel

Title

(CN201042990U)

Bicycle wheel lighting structure**Images****Publication data including kind & date**[CN201042990](#)

Y

2008-04-02

[CN201042990U](#)**Abstract**

(CN201042990U)

The utility model is a **bicycle** wheel lighting structure which is mainly provided with a seat body; a winded coil and a control circuit are provided in the seat body, the one end of the seat body is provided a lighting component connected with the control circuit, and a covering part extends from the other end; a barrel-shaped knob is provided between the seat body and the covering part, a nozzle of the **bicycle** wheel is provided by penetration on the knob via the covering part, and the seat body is fixed on the **bicycle** wheel via the locking cooperation between the knob and the nozzle; one or more magnets are fixed on the suitable position of the **bicycle** fork, the coil in the seat body has sense to the magnet to produce electricity due to the rotation of the wheels when the **bicycle** runs, and furthermore, the voltage produced by the coil lights the lighting component via the control circuit to generate a visual effect of lighting, enhancing the security of driving in the dark and achieving the goal of saving energy and protecting environment due to no external power supply needed.

Inventors

LI SHUIYUAN

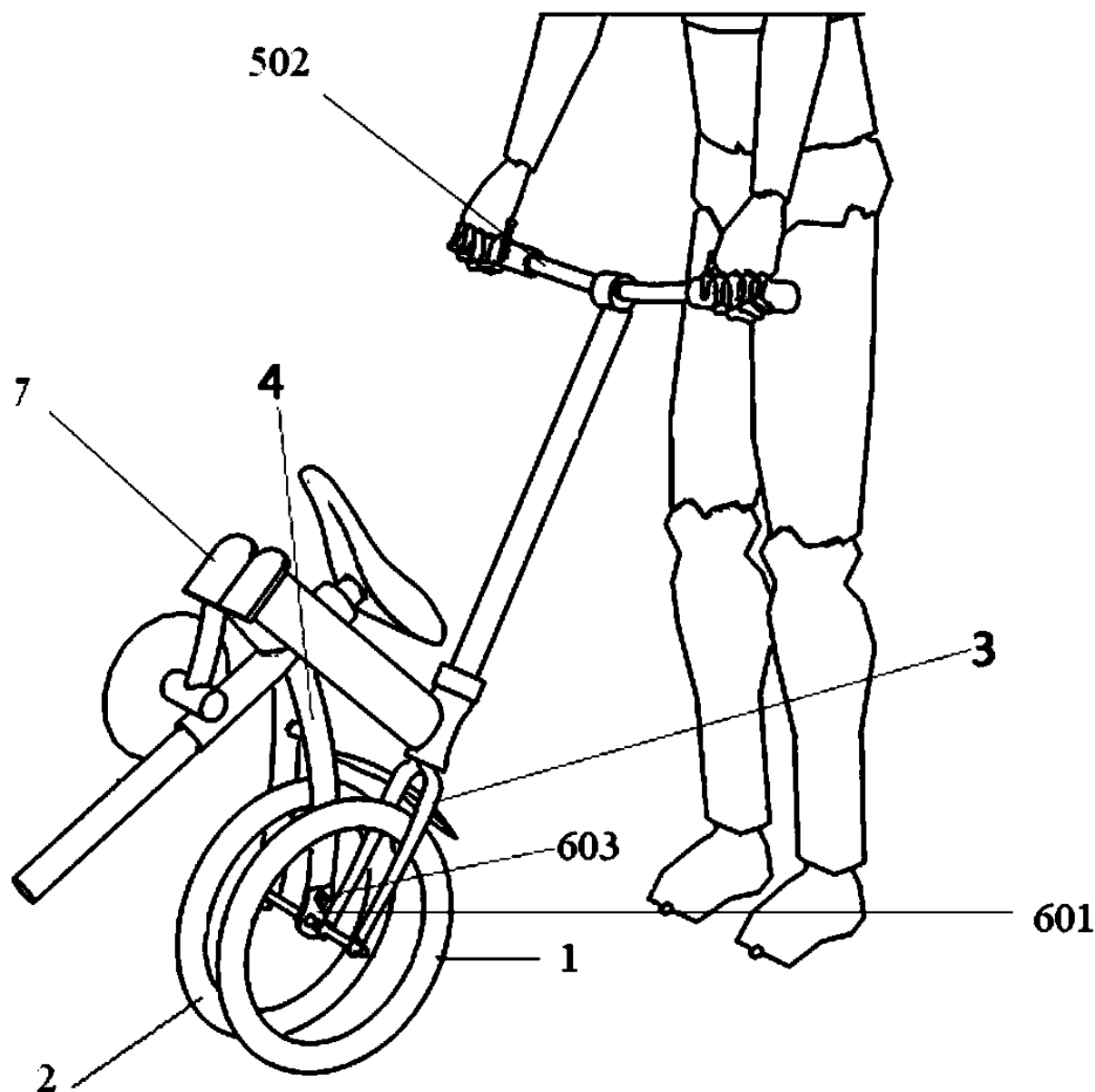
Latest standardized assignees - inventors removed

ACXING INDUSTRIAL

Family 4/18 - FAMPAT - ©Questel

Title

(CN204979056U)

Folding **bicycle****Images**

CN204979056

U

2016-01-20

CN204979056U

Abstract

(CN204979056U)

The utility model discloses a folding **bicycle**, including front wheel, rear wheel, front fork, back vent and can the folding frame, the front fork setting be stuck in the rear portion of frame, front wheel setting in the front portion of frame, back vent setting in the front, and the rear wheel setting is provided with locking portion on front fork and/or the back vent on the back vent, and the folding back locking portion of folding **bicycle** can be tight with back fork lock with the front fork, and the front fork is with back fork lock when tight, the axle center of front wheel and the coincidence of the axle center of rear wheel. The utility model provides a folding **bicycle** through set up locking portion on folding **bicycle**, has realized the core wheel coincidence of folding **bicycle**'s front wheel and rear wheel to the folding **bicycle**'s after folding walking can be realized to locking front wheel and rear wheel, the handlebar that is pushing away folding **bicycle**, avoids increasing on the **bicycle** supplementary wheel, is pushing away after realization **bicycle** that just can be simple and convenient is folded and is walking.

Inventors

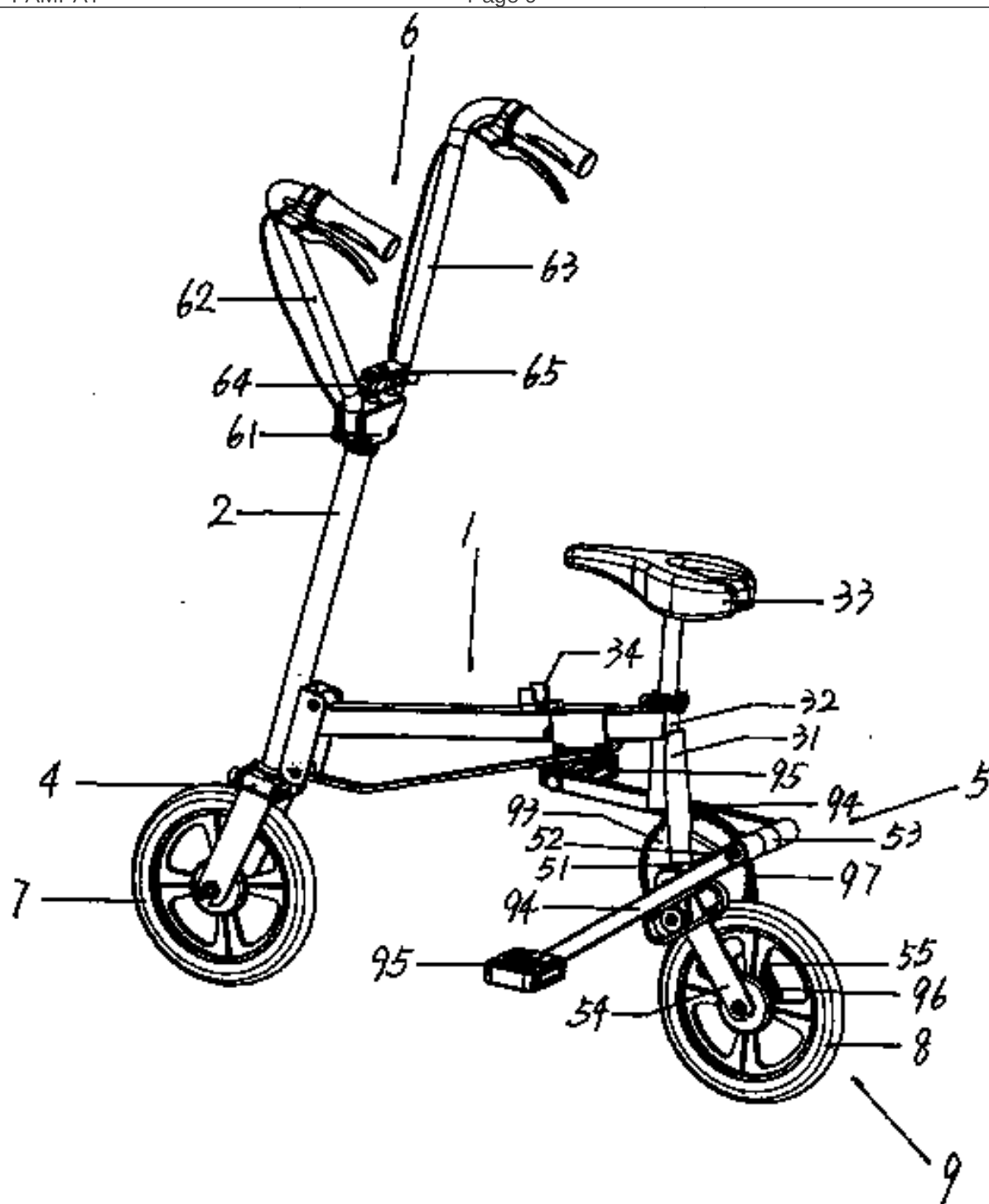
HUANG WEI

Family 5/18 - FAMPAT - ©Questel

Title

(CN204415634U)

Portable four-linkage folding up-down pedaling type **bicycle****Images**



Publication data including kind & date

CN204415634

U 2015-06-24 CN204415634U



Abstract

(CN204415634U)

A portable four-linkage folding up-down pedaling type **bicycle** comprises a four-linkage folding **bicycle** beam, a front head tube, a rear inclined tube, a seat tube, a **bicycle** saddle, a front fork assembly, a rear bracket, a V-shaped folding handgrip, a front wheel, a rear wheel and a driving mechanism. The four-linkage folding **bicycle** beam is formed by connecting a folding seat, a front beam tube, a rear beam tube, a rotary vane, a groove-shaped folding part, a thick-walled circular tube, a **bicycle** beam latch hook and a connecting rod, the four-linkage folding **bicycle** beam is welded to the front head tube and the seat tube, the seat tube is welded to the rear inclined tube which is welded to the rear bracket, a rear left fork piece and a rear right fork piece of the rear bracket are used for installing the rear wheel, and a bearing seat and a locating shaft of the rear bracket are used for installing the driving mechanism; the front fork assembly is formed by a front wheel fork and a front fork tube fitting, the front wheel fork can be folded with the front fork tube fitting, the front fork tube fitting is rotatably connected with the front head tube, the lower end of the front wheel fork is connected with the front wheel, the **bicycle**

saddle is arranged on the seat tube, and the V-shaped folding handgrip is connected with a front wheel bracket; the driving mechanism comprises a left crankshaft, a right crankshaft, a crankset, two foot bars, the two pedals, a flywheel and a chain.

Inventors

PANG MINGFANG

Latest standardized assignees - inventors removed

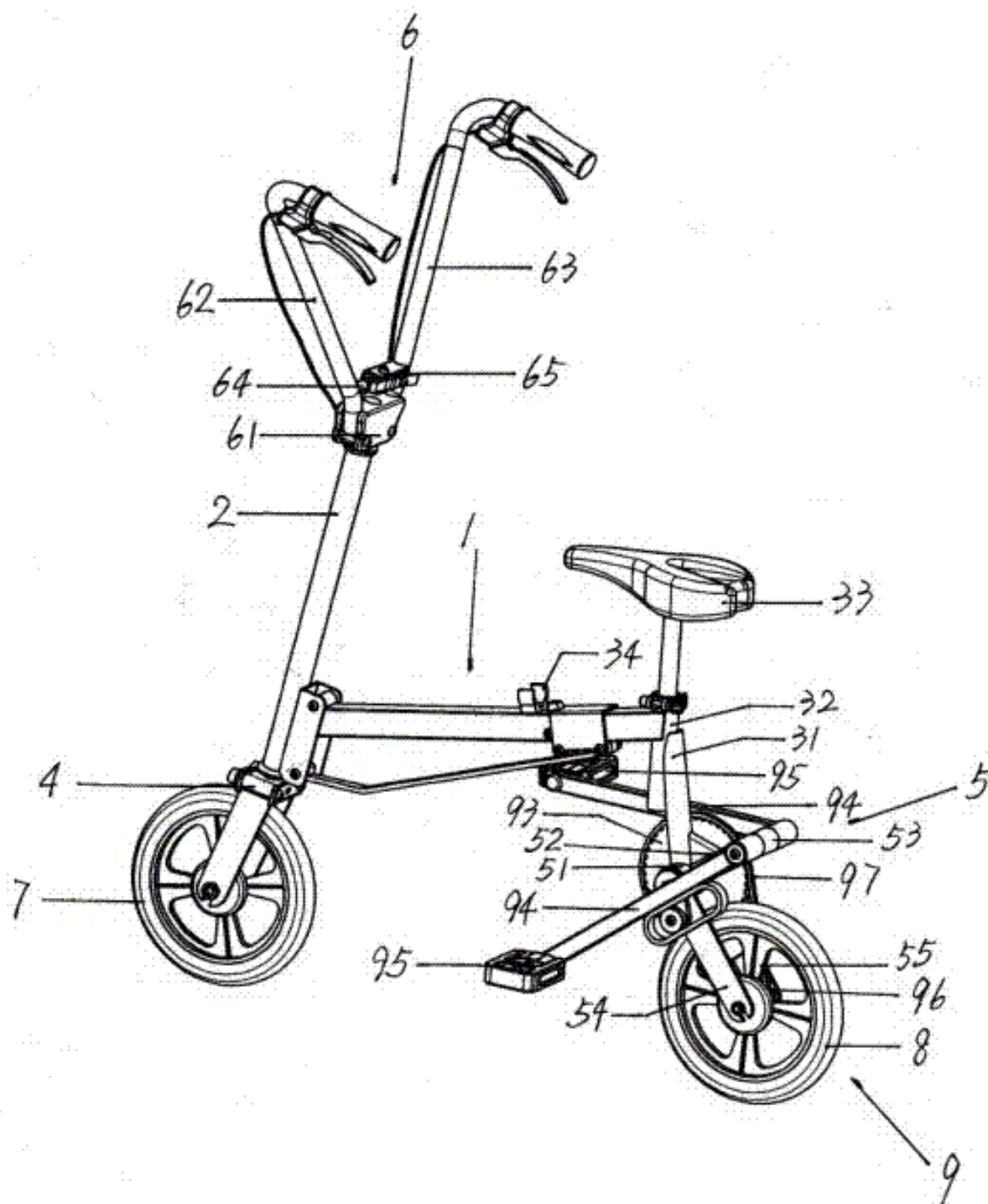
TAICANG CHEZHONGBAO LEISURE ARTICLES

Family 6/18 - FAMPAT - ©Questel

Title

(CN104554574)

Portable four-link folding up- and down-pedaling **bicycle**

Images

[CN104554574](#)

A 2015-04-29 CN104554574

[CN104554574](#)

B 2017-07-25 CN104554574B

**Abstract**

(CN104554574B)

A portable four-link folding up- and down-pedaling **bicycle** comprises a four-link folding **bicycle** beam, a front head pipe, a rear inclined pipe, a seat pipe, a saddle, a front fork component, a rear frame, a V-shaped folding handlebar, a front wheel, a rear wheel and a driving mechanism, wherein the four-link folding **bicycle** beam is formed by connecting a folding seat, a front beam pipe, a rear beam pipe, a rotating vane, a groove-shaped folding piece, a thick-walled round pipe, a **bicycle** beam locking hook and links; the four-link folding **bicycle** beam is welded on the front head pipe and the seat pipe; the rear inclined pipe is welded on the seat pipe; the rear frame is welded on the rear inclined pipe; the rear wheel is mounted on a left rear fork piece and a right rear fork piece of the rear frame; the driving mechanism is mounted on a bearing support and a positioning shaft of the rear frame; the front fork component comprises a front wheel fork and a front fork pipe fitting; the front wheel fork can be folded with the front fork pipe fitting; the front fork pipe fitting is rotationally connected with the front head pipe; the lower end of the front wheel fork is connected with the front wheel; the saddle is arranged on the seat pipe; the V-shaped folding handlebar is connected with a front wheel frame; and the driving mechanism comprises a left crankshaft, a right crankshaft, a crankset, two pedal levers, two pedals, a flywheel and a chain.

Inventors

PANG MINGFANG

HONG XUAN

In Zhang Hong

Latest standardized assignees - inventors removed

ANXI COUNTY SENZHIWEI EDIBLE PROFESSIONAL COOPERATIVES

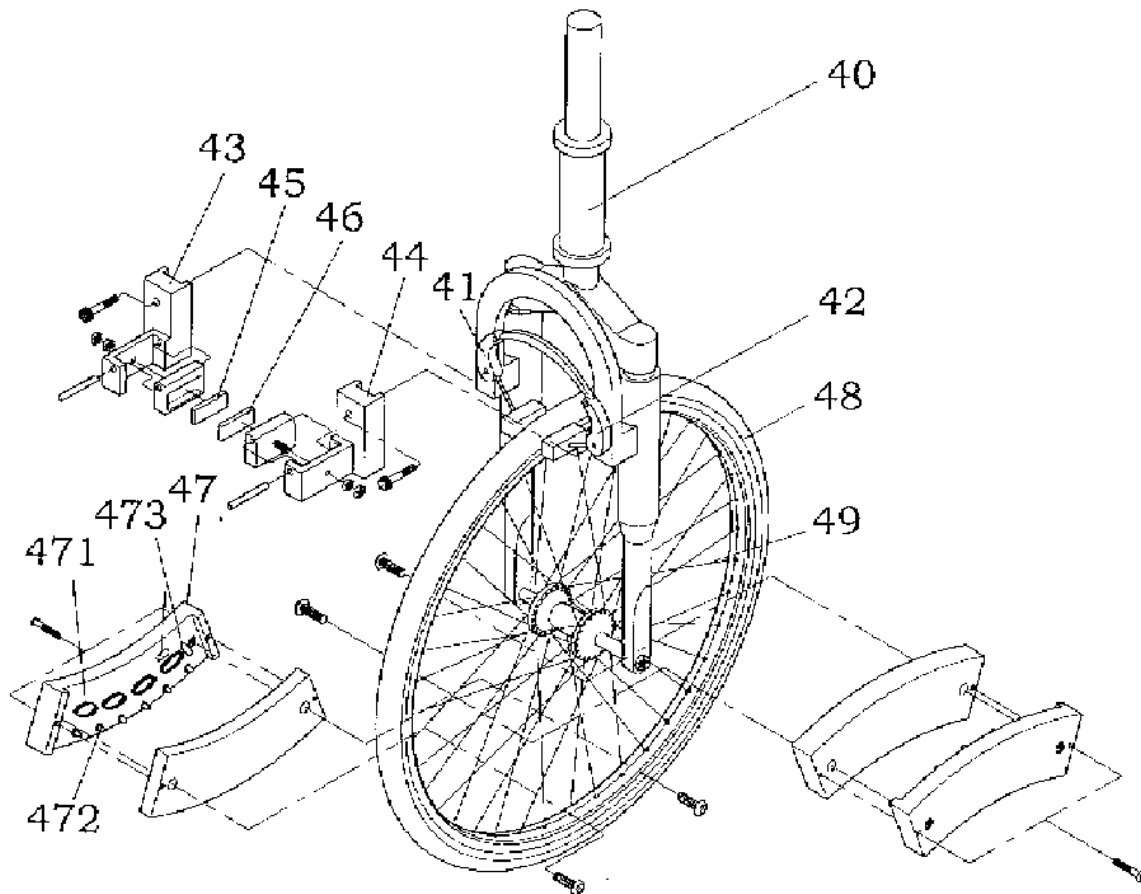
Family 7/18 - FAMPAT - ©Questel

Title

(CN2478809U)

Luminous warning device for wheel

Images

**Publication data including kind & date**

CN2478809

Y

2002-02-27

CN2478809U

**Abstract**

(CN2478809U)

A wheel lighting alarm device comprises fixed bases respectively locked on two sides of a wheel fork tube, wherein the fixed bases are respectively fixed with two magnetic needles with opposite magnet poles, to form magnetic field between the two magnetic needles, the steel wires on the wheels are mounted with coil boxes in which a plurality of parallel windings and a plurality of LED lamps are arranged, the windings are connected with a capacitor for storing electricity. Therefore, when wheels rotate, the windings cut the magnetic field to generate electric voltage, to make the LED lamps automatically generate alarm light, without additional power supply. And along the speed change of wheels, the LED lamps can generate different brightness and lighting time, with speed alarm function to realize safe alarm effect.

Inventors

LIU ZIWEN

YAO BEIQIN

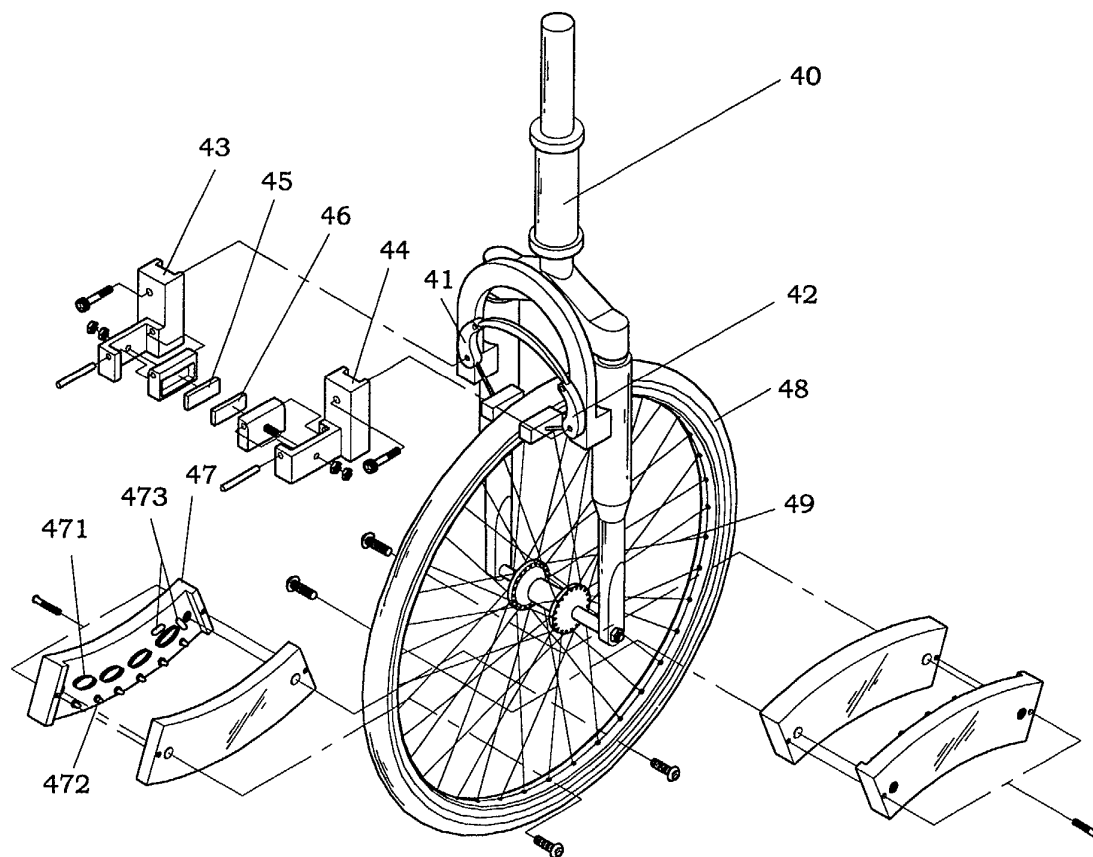
Family 8/18 - FAMPAT - ©Questel

Title

(US20050169004)

Luminous warning device for making presence of a vehicle conspicuous

Images

**Publication data including kind & date**[US20050169004](#)

A1 2005-08-04

US20050169004

**Abstract**

(US20050169004)

A luminous warning device comprises two fastening mounts and a coil box. The fastening mounts are fastened to a fork tube of a vehicle and are provided with a magnet to effect a magnetic field. The coil box contains a plurality of coils and light-emitting diode bulbs. The coil box is fastened to the wheel of the vehicle. As the wheel is turned, the coil box passes through the magnetic field to bring about an electric potential which enables the light-emitting diode bulbs to emit light.

Inventors

LIU TZU-WEN

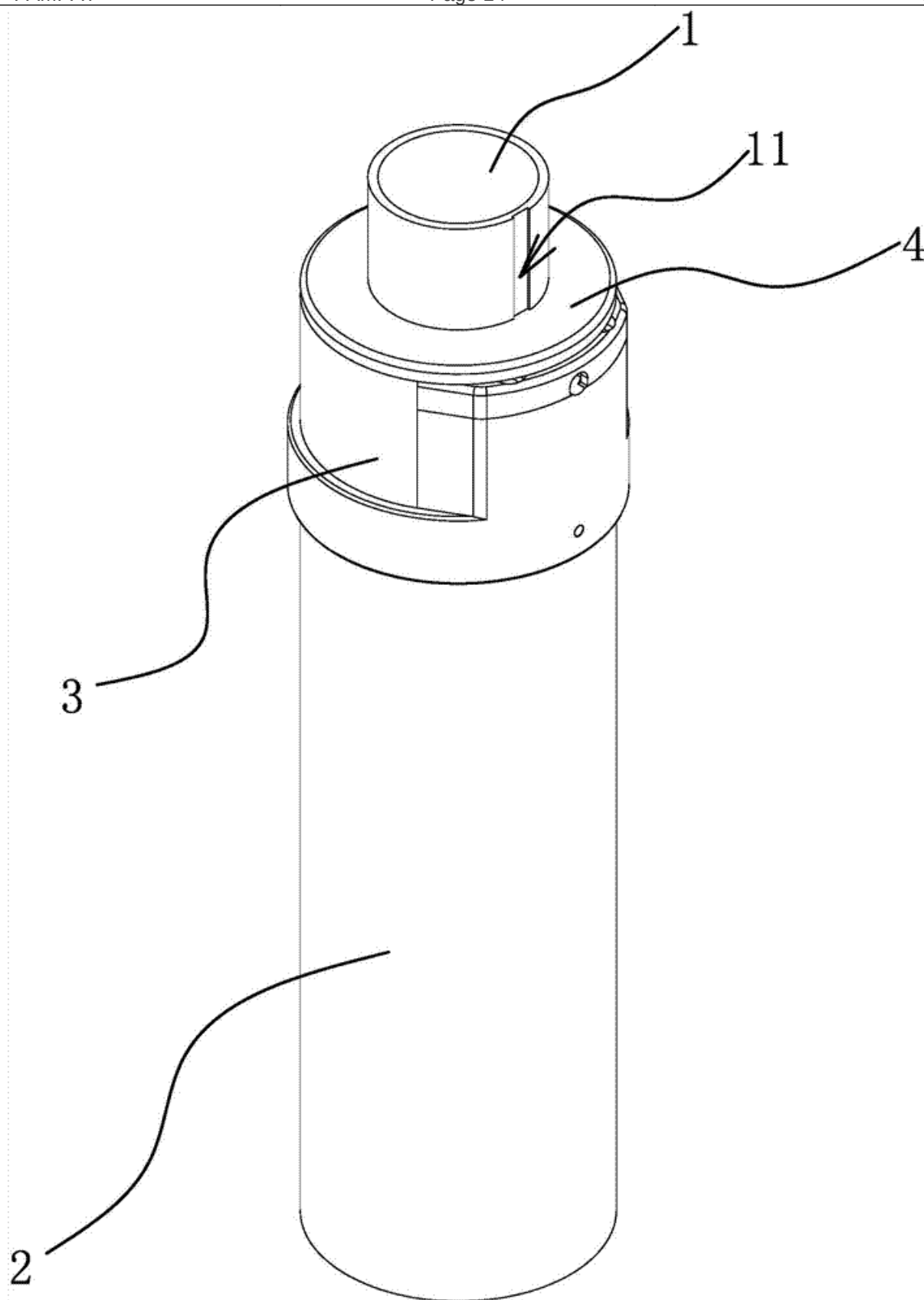
YAO PEI-CHIN

Family 9/18 - FAMPAT - ©Questel

Title

(CN207191285U)

Electric **bicycle** turns to device that reduces helping hand**Images**

**Publication data including kind & date**[CN207191285](#)

U

2018-04-06

CN207191285U

**Abstract**

(CN207191285U)

The utility model provides an electric **bicycle** turns to device that reduces helping hand belongs to electric **bicycle** technical field. It has solved current electric **bicycle** at the in -process of turning, because the too big easy problem of falling down that produces of helping hand. This electric **bicycle** turns to device that reduces helping hand includes the front fork riser, the sleeve on the front fork riser is established to the cover, still overlap on the front fork riser and be equipped with head pipe

and magnet steel seat, head pipe and muffjoint, first intraductal ability and the electric hall sensor who is connected of controller of being equipped with, the head pipe can be rotatory around the front fork riser, the spacing groove has been offered on the front fork riser, the protruding stopper that forms on the magnet steel seat, stopper embedding limiting groove, be equipped with two blocks of magnet steel on the magnet steel seat, the one end of one of them magnet steel linksto each other with the one end of another magnet steel is homopolar, hall sensor sets up the outside at the magnet steel. This electric bicycle turns to device that reduces helping hand can realize reducing the helping hand at electric bicycle turn in -process.

Inventors

LIAN YONGBIN

Xiao Minghui

LIN HAIJIE

Latest standardized assignees - inventors removed

ZHEJIANG KAI CHI ELECTRIC TECHNOLOGY

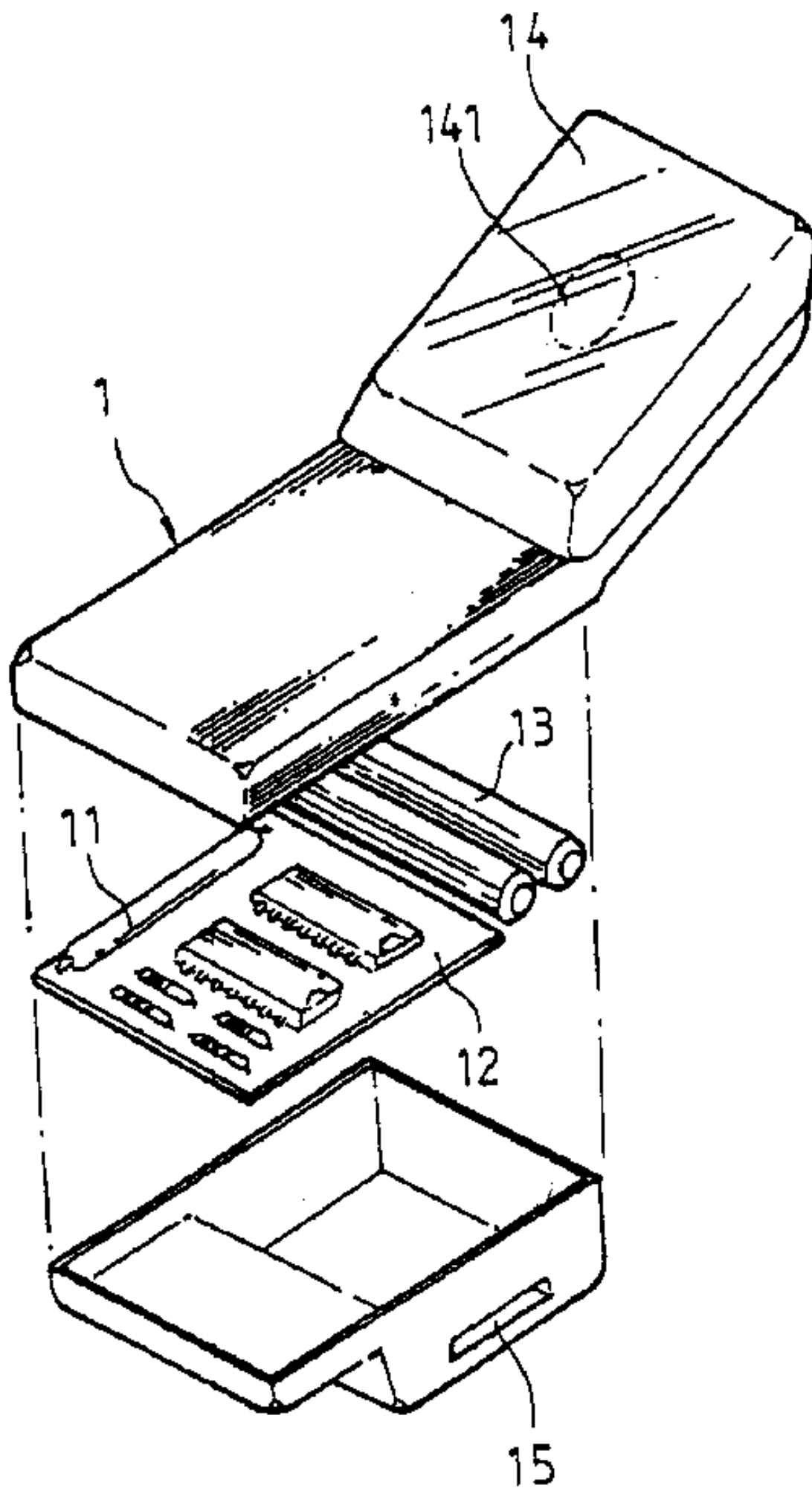
Family 10/18 - FAMPAT - ©Questel

Title

(CN2309263U)

Warning lamp for bicycle

Images



Publication data including kind & date

CN2309263

Y 1999-03-03 CN2309263U

**Abstract**

(CN2309263U)

The utility model relates to a warning lamp for a **bicycle**, which is mainly provided with a body. A magnetic reed switch and an electronic control device are arranged in the body, the upward side of the body presents a display surface at a proper inclination angle, the inner part of the display surface is provided with a luminous body, the body is fixedly locked on a rear stirrup tube of a **bicycle**, and a magnetic element is arranged on the steel wires of a rear **bicycle** wheel. When a **bicycle** is running, the magnetic element generates a gap effect on the magnetic reed switch owing to the rotation along with the wheels, so that the break-over voltage signal of the magnetic reed switch triggers a delay circuit and a comparison circuit to drive the luminous body to form constant luminance display or flashing display, therefore, a **bicycle** generates a warning effect during running.

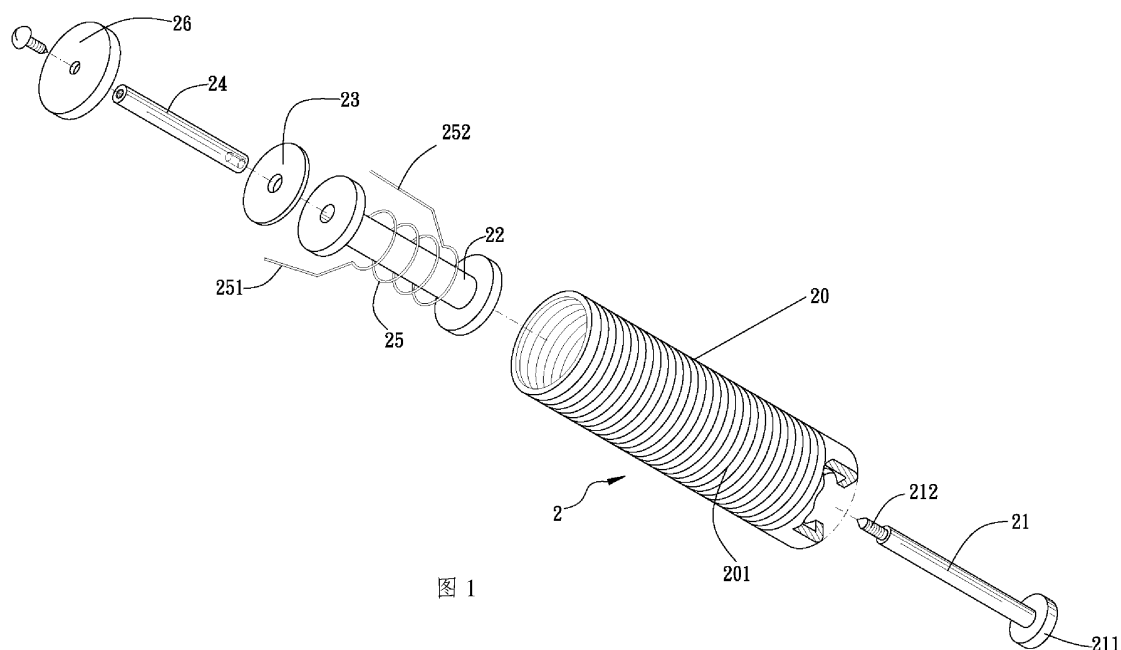
Inventors

SU HONGYU

Family 11/18 - FAMPAT - ©Questel

Title

(WO201122882)

Power generation device for **bicycle****Images****Publication data including kind & date**

WO2011022882

A1 2011-03-03 WO201122882

**Abstract**

(WO201122882)

A power generation device for a **bicycle** includes a connecting pole (1), an exciting component (2) and at least one magnet (3). The connecting pole (1) and the exciting component (2) are movably assembled. The assembled position of the exciting component (2) is adjustable relative to the connecting pole (1). The connecting pole (1) is mounted on the **bicycle**. The magnet (3) is mounted on the **bicycle** corresponding to the exciting component (2). A current is generated by the interaction between the exciting component (2) and the magnet (3). The magnitude of the current is adjusted by changing the assembled position of the exciting component (2). The current is provided to the **bicycle** through a loop. The device

facilitates maintenance and saves cost.

Inventors

HSUEH WEN-HSIUNG

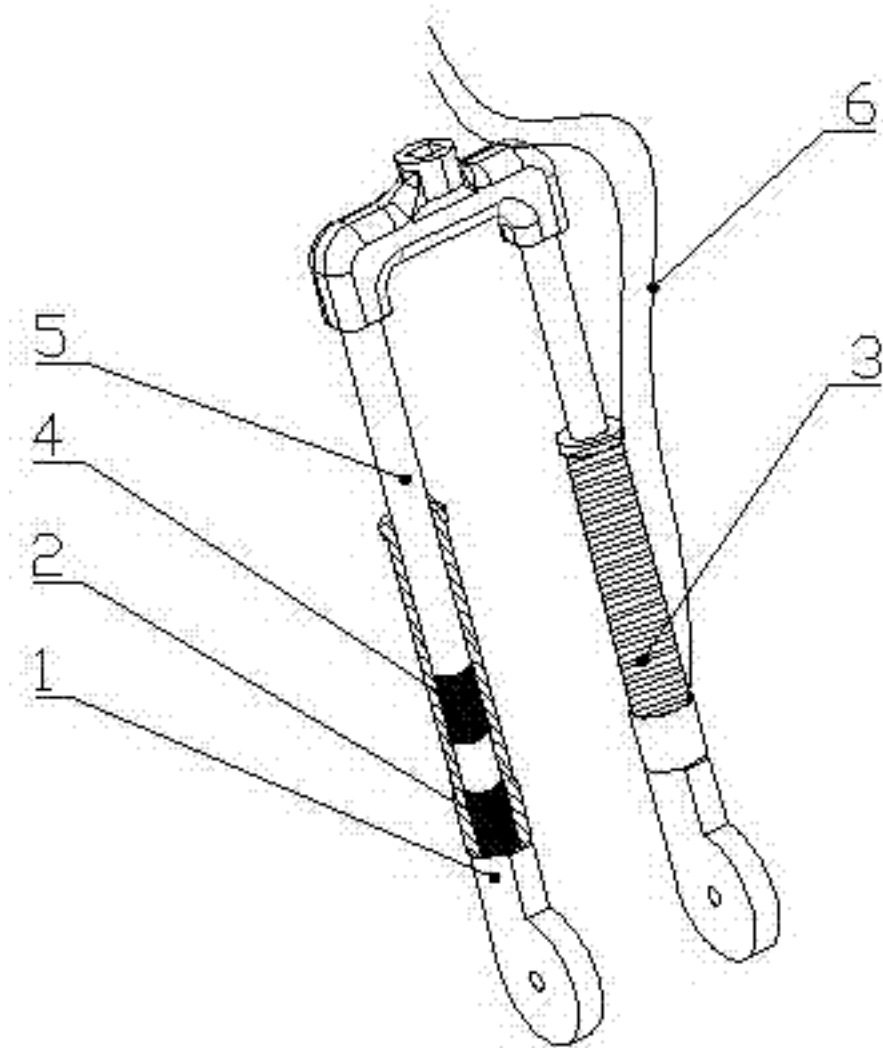
Family 12/18 - FAMPAT - ©Questel

Title

(CN206307213U)

Novel climbing **bicycle** electricity generation shock attenuation front fork

Images



Publication data including kind & date

[CN206307213](#)

U

2017-07-07

CN206307213U



Abstract

(CN206307213U)

The utility model relates to a novel climbing **bicycle** electricity generation shock attenuation front fork, including coil, shock attenuation front fork inner tube, shock attenuation front fork outer tube, first permanent magnet, second permanent magnet, wire. The bottom of shock attenuation front fork outer tube is equipped with first permanent magnet, first permanent magnet and shock attenuation front fork outer tube fixed connection, the bottom of shock attenuation front fork inner tube is equipped with the second permanent magnet, second permanent magnet and shock attenuation front fork inner tube fixed connection. Be equipped with the coil on the shock attenuation front fork outer tube. When the climbing **bicycle** took place vibrations, the second permanent magnet on the shock attenuation front fork inner tube produced relative motion for shock attenuation front fork outer tube, and linear one -tenth induced -current is felt to the magnetism of the coil cutting second permanent magnet production on the shock attenuation front fork outer tube. The electric energy that produces can be stored in the battery through rectifier circuit, also can be small -size with electrical apparatus directly charged or be used for

rim steel bars, wherein, the sensing element is composed of an iron ring and an induction coil. Both ends of the induction coil are connected with a light fitting through a diode, an accumulator cell and a switch. When the **bicycle** is traveling, the wheel rim drives the permanent magnet on the wheel rim to rotate and simultaneously cuts the magnetic lines of the induction element, which enables the induction element to generate electromotive force for charging accumulator cells and storing electric energy for the operation of the illuminating lamp during nighttime, increasing driving safety. Because no energy source is utilized, the utility model can not result in environmental pollution directly or indirectly.

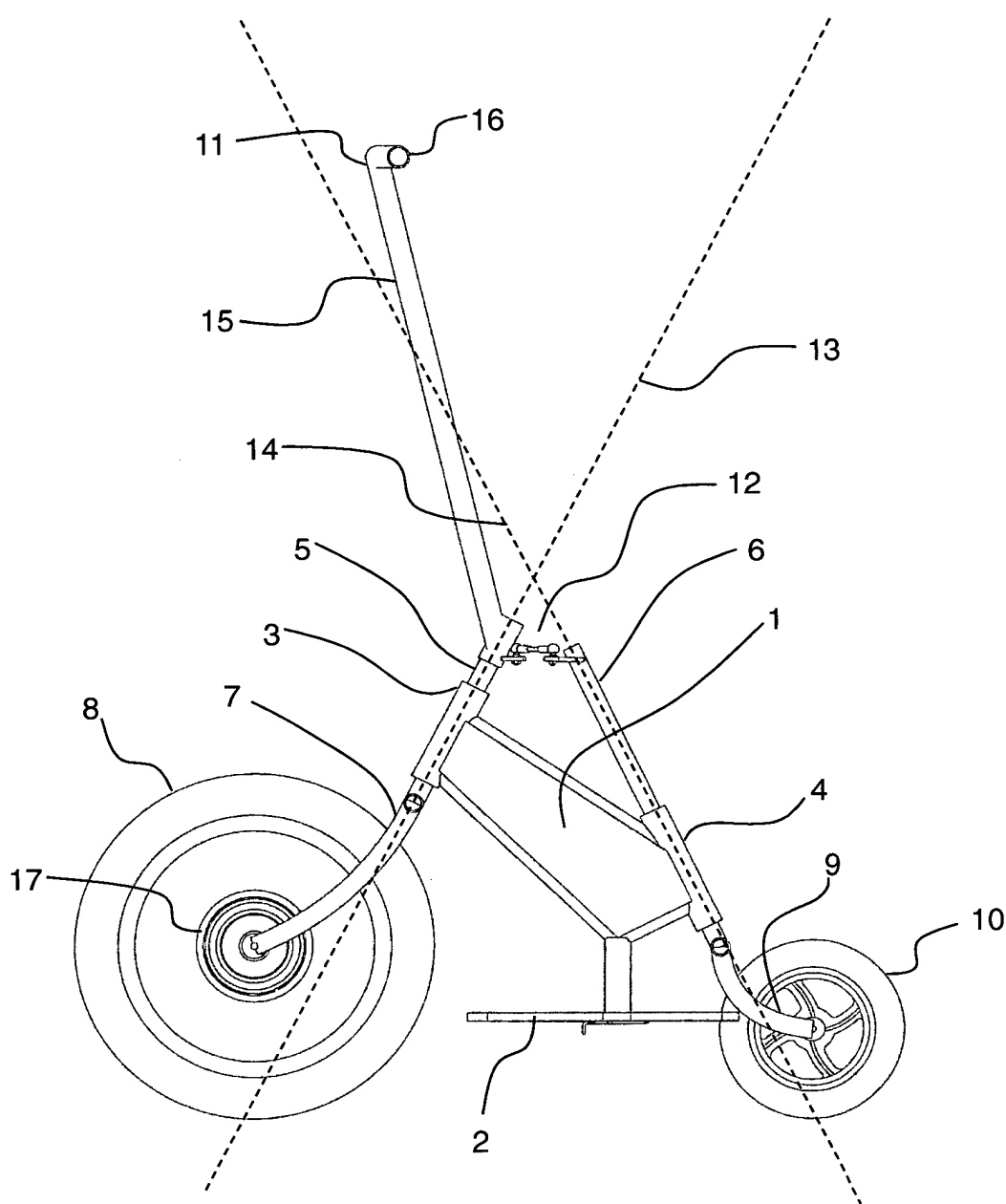
Inventors

ZHONG RUIFENG

Family 14/18 - FAMPAT - ©Questel

Title

(EP3416878)

Bicycle**Images****Fig. 1**

Publication data including kind & date

DE102016001843	A1	2017-08-24	DE102016001843
WO2017140433	A1	2017-08-24	WO2017140433
DE102016001843	B4	2018-05-09	DE102016001843
CN108883808	A	2018-11-23	CN108883808
EP3416878	A1	2018-12-26	EP3416878

**Abstract**

(EP3416878)

The invention relates to a **bicycle** having a frame (1) comprising a front head tube (3) that defines a front steering axle (13) and on which a front fork steerer tube (5) having a front wheel fork (7) that receives a front wheel (8), and a steering link (15) on which a handlebar (11) is arranged, is rotatably mounted, and a rear head tube (4) that defines a rear steering axle (14) and on which a rear fork steerer tube (6) having a rear wheel fork (9) that receives a rear wheel (10) is rotatably mounted, wherein the rear fork steerer tube is connected to the front fork steerer tube (5) via a coupling arrangement (12) and is rotatable in dependence of the rotation angle of the front fork steerer tube (5) and the front steering axle (13) and the rear steering axle (14) are inclined toward each other and intersect underneath the handlebar (16).

Inventors

FRANTZEN MICHAEL

MANSEL JANKE

OPITZ JENS

VREDEN FELIX

Latest standardized assignees - inventors removed

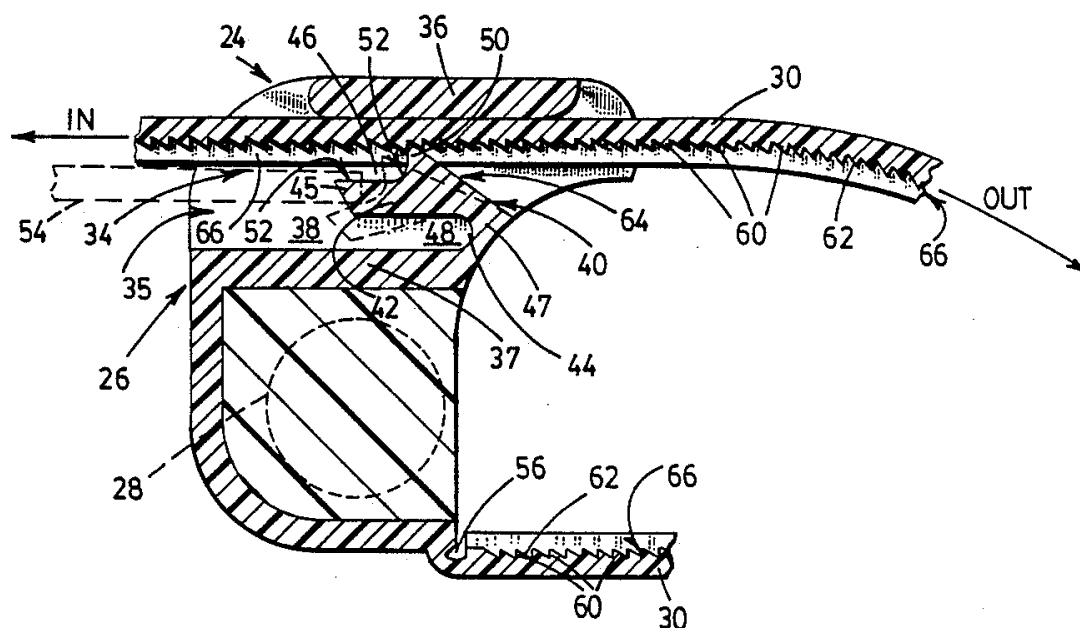
TECHNISCHE HOCHSCHULE KOELN

Family 15/18 - FAMPAT - ©Questel

Title

(US4825156)

Signal detector for cycle computer with releasable strap frame mounting

Images**Publication data including kind & date**

US4825156	A	1989-04-25	US4825156
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**Abstract**

(US4825156)

A signal detector for a cycle computer comprises a head, a sensor supported by the head, and a flexible strap having one end connected to the head. The head includes a housing having a curved abutment surface shaped to bear against the curved abutment surface of a support tube such as a leg of a **bicycle** fork or a rear stay tube. The head has a strap-guiding surface defining one wall of a strap-receiving passageway extending completely through the housing and tangent to the curved abutment surface. The passageway has a strap entrance portion adjacent the curved abutment surface and a strap exit portion remote from it. The strap has transverse teeth along the inside surface facing inwardly into the passageway when the strap extends through it. In the embodiment disclosed, the head is molded of plastics material and includes an integral pawl in the passageway. The pawl has a tooth which is elastically biased into locking engagement with the teeth on the strap which are in the form of ratchet surfaces enabling easy insertion of the strap and blocking withdrawal. The exit portion of the strap-receiving passageway is enlarged to receive a tool such as a screwdriver for disengaging the tooth on the pawl from the teeth on the strap to enable easy withdrawal of the strap.

Inventors

READ ROBERT

Latest standardized assignees - inventors removed

BANK OF AMERICA

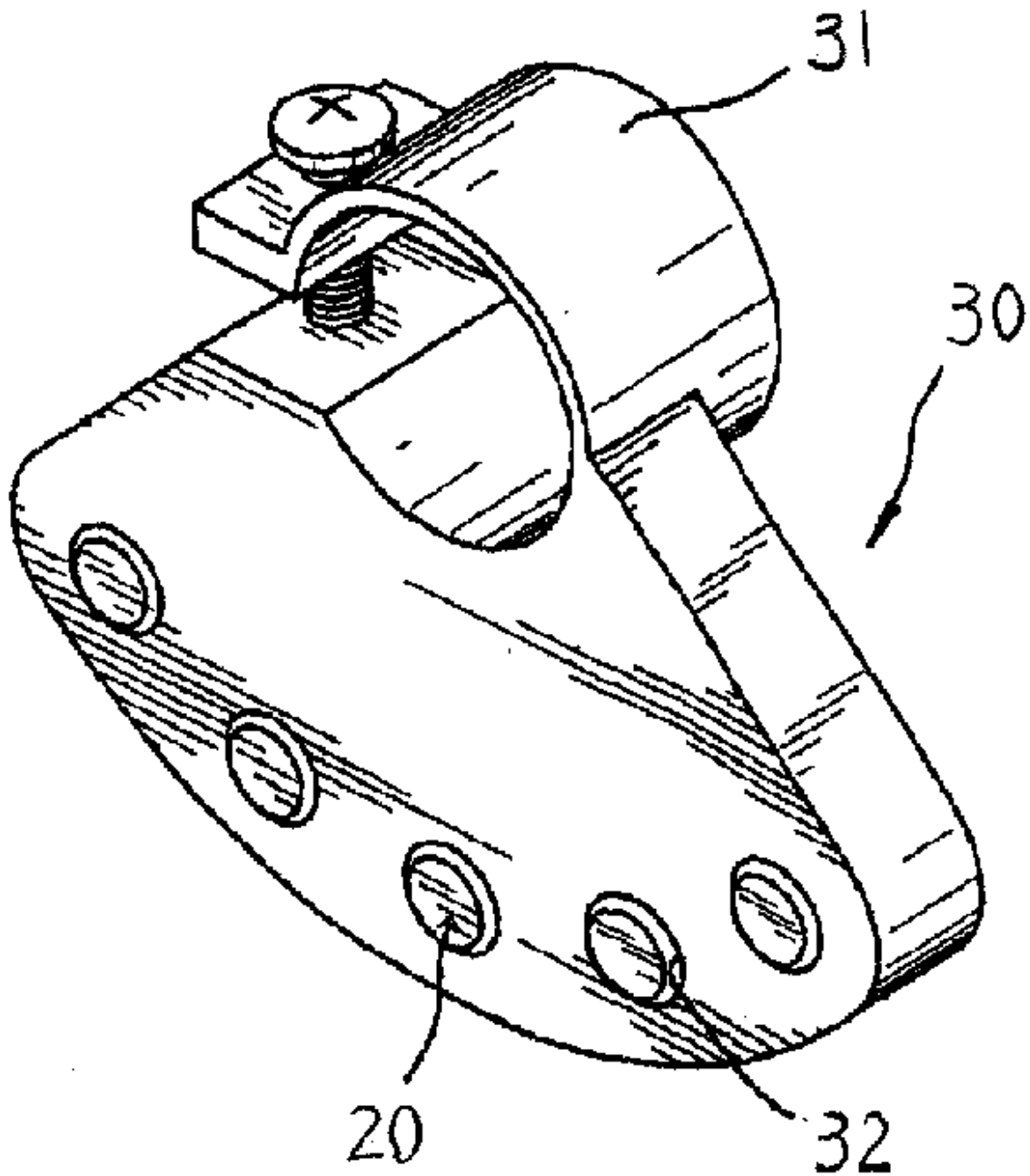
Family 16/18 - FAMPAT - ©Questel

Title

(CN2608079U)

Improved structure of sensor for sporting equipment

Images

**Publication data including kind & date**[CN2608079](#)

Y

2004-03-31

CN2608079U

**Abstract**

(CN2608079U)

An improved structure of sensors used for sporting equipment, which includes a spring switch 10, a magnet 20 that moves relative to the magnetic reed switch 10 and generates induction. The structure is characterized in that multiple magnets 20 are placed on a seat 30 along an arc with N pole and S pole arranged in staggered form. The seat 30 is in sector shape, and magnets 20 are positioned on near arc part of the sector seat; a connection part 31 in the shape of approximate C is on the sector seat near center of circle. Multiple magnets 20 are embedded in multiple grooves 32 of corresponding shape or attached on the seat 30. The seat 30 equipped with the multiple magnets 20 is placed on moving and fixed part on the sporting equipment relative to the magnetic reed switch 10. The utility model can works with small angle swing of sporting equipment to induct the magnetic reed switch relatively placed, so scope of use of sensors can be extended.

Inventors

ZHOU MINGFU

Latest standardized assignees - inventors removed

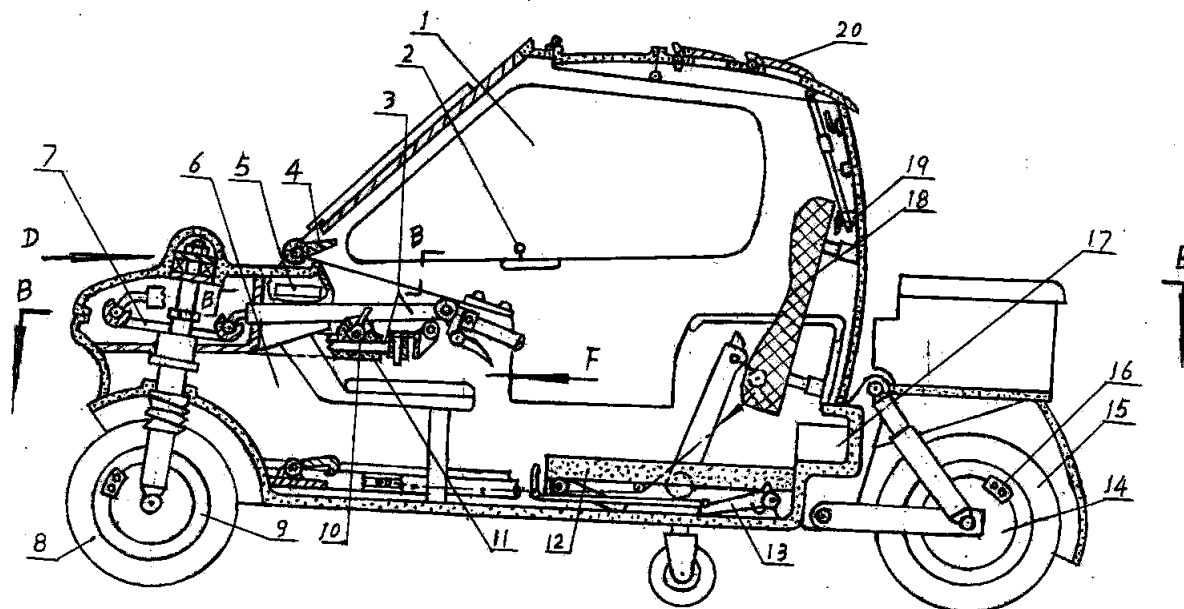
JIN YI ELECTRONICS

Family 17/18 - FAMPAT - ©Questel

Title

(CN103935436)

Two-wheel motorcycle provided with pull rod steering device and foot-control supporting wheels and used in opening and closing mode

Images**Publication data including kind & date**

CN103935436	A	2014-07-23	CN103935436
CN104443192	A	2015-03-25	CN104443192
CN104443192	B	2017-01-04	CN104443192B

**Abstract**

(CN103935436)

The invention relates to a two-wheel motorcycle provided with a pull rod steering device and foot-control supporting wheels and used in an opening and closing mode. The two-wheel motorcycle comprises a motorcycle body, a front wheel, a rear wheel, a braking device, a main motor, a program controller, a circuit system, pull rod speed adjusting handles and an accessory device of an existing two-wheel motorcycle. The two-wheel motorcycle further comprises the steering pull rod device, a roof cover device and a foot-control supporting wheel device. The upper portion of the motorcycle body is provided with a motorcycle cover used for getting on or off the motorcycle body, and when the motorcycle cover is closed, the height of the motorcycle body is 1.18 meters. A high-speed motor of the rear wheel enables the running speed of the two-wheel motorcycle to be the same as that of an automobile. Two sets of steering pull rods installed on handles of the front wheel are used for controlling steering of running, and the freedom degree is high, so that a lower seat is 0.1 meter high, and the motorcycle is comfortable to drive; the pull rod handles at the tail end of the steering pull rods are used for controlling speed, steering and braking; when the semi-open motorcycle cover covers the top roof cover, the motorcycle can be driven in a high-seat mode and is more comfortable; a driver pedals a foot pedal forward in the motorcycle to control the supporting wheels of the two sides of the motorcycle to respectively lift or touch the ground so that the motorcycle can be guided and parked in a self-locking mode, wherein the wheel distance is 1.1 meters; the parking method is sensitive and safe, and saves labor; according to the two-wheel motorcycle, the motorcycle body is low in height, the supporting wheel distance is large, the motorcycle is safe to drive, a user can drive the motorcycle after obtaining a license, energy is saved, haze is reduced, and the motorcycle has a great effect on relieving the traffic jam.

Inventors

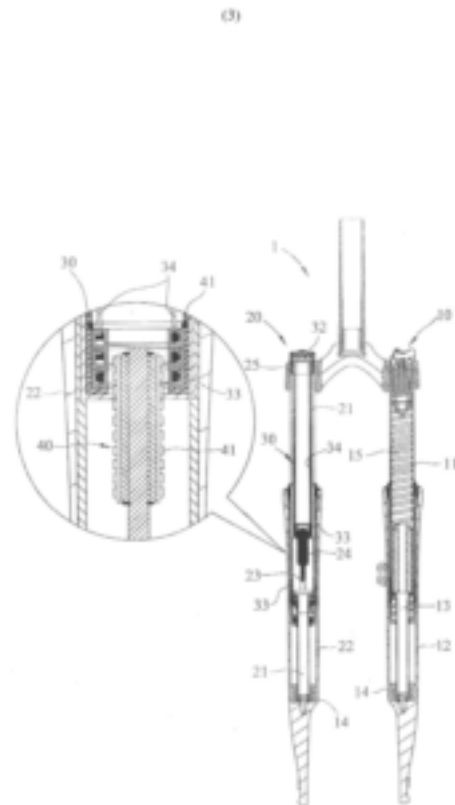
LI FENGYUN

Family 18/18 - FAMPAT - ©Questel

Title

(TWI312748)

Has to suppose from electricity generation caution light front fork installment

Images

- 675 -

Publication data including kind & date

TW200829475	A	2008-07-16	TW200829475
TWI312748	B	2009-08-01	TWI312748

**Abstract**

(TWI312748)

This invention is to provide a front fork with a self-energizing alarm light. Two ends of the front fork have inter-sleeved inner and outer tubes, and an accommodation space is formed in one inner tube. The accommodation space is in communication to the top end of the inner tube, and a sleeve is inserted in the accommodation space so that an axial pole disposed on the bottom of the outer tube may insert into the sleeve. A magnetic bar is disposed on the axial pole, and a magnetic coil is formed in the sleeve. In addition, an alarm light electrically connected to the coil is mounted on the top of the sleeve so that when the inner and outer tubes are in relative motion, the magnetic bar may also move axially in the magnetic coil, generating induced current in the magnetic coil to turn on the alarm light.

Inventors

CHEN, HUI XIONG

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