

Nicolas Vargas

1) Family number: 48717072 (DE202010012992U1)

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Title: ELEKTROFAHRRAD MIT ELEKTROANTRIEB SOWIE ANTRIEBSEINHEIT FUER EIN ELEKTROFAHRRAD

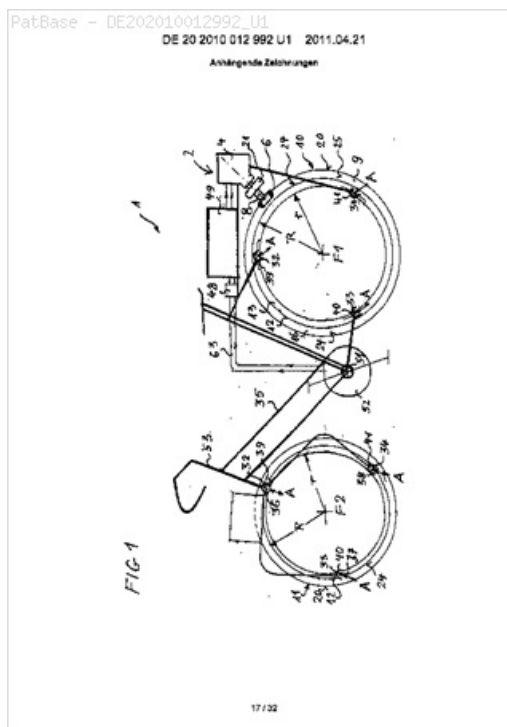
Abstract: Source: DE202010012992U1 [DE] (Claim 1) 1. Elektrofahrrad mit Elektroantrieb, wobei das Elektrofahrrad einen Elektromotor (4) mit einer Antriebsrolle (5) oder einem Antriebsband aufweist, und wobei die Antriebsrolle (5) oder das Antriebsband reib- oder formschluessig mit einem Reifenmantel (9) eines Fahrradreifens (16) eines Laufrades (10) zur uebertragung von Motordrehmomenten verbunden und der Mantel (9) auf einer Radfelge (12) angeordnet ist dadurch gekennzeichnet, dass das Elektrofahrrad (1) speichenlose Laufraeder (10, 11) mit einer Hohl-nabe (13) aufweist, wobei die Hohl-nabe (13) einen Radius (r) aufweist, der dem Innenradius (R) der Radfelge (12) des Laufrades (10) angepasst ist, und wobei zwischen der stehenden Hohl-nabe (13) und der rotierenden Radfelge (12) des Laufrades (10) eine Kugellagerung (14, 15) eingepasst ist.

Classifications:

International (IPC 8-9): B62M6/75 (Advanced/Invention)

CPC: B62M6/75

European: B62M6/75



Family:

Publication number	Publication date	Application number	Application date
DE102010060808 A1	20110609	DE201010060808	20101125
DE202010012992 U1	20110421	DE201020012992U	20101125

Priority:

DE200910044650 20091125 DE201010060808 20101125 DE201020012992U 20101125

Probable Assignee: CLEAN MOBILE AG

Assignee(s): (std): CLEAN MOBILE AG

Inventor(s): (std): NEUMAIR ANDREAS ; MUELLER REINHARD ; HOEBEL RUDOLF

2) Family number: 63711074 (US2016290432A)

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Title: HIGH EFFICIENCY DAMPER FOR BICYCLE SUSPENSION

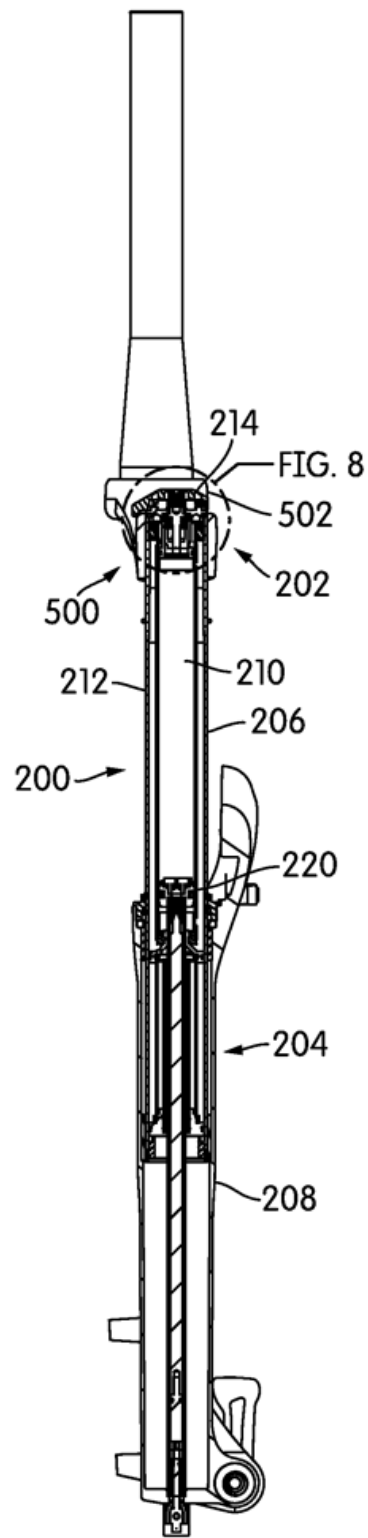
Abstract: A shock absorber has a valve controlling the flow rate of fluid between a first chamber and a second chamber. The shock absorber may include a blocker that has a variable profile. The blocker may be rotatable using an external adjuster to position the blocker to variably occlude an aperture and vary the damping of the suspension. A bias may also be positioned adjacent the blocker to allow force from the fluid to move the blocker and expose the aperture, thereby allowing fluid to flow through the entirety of the aperture.

Classifications:

International (IPC 8-9): B62K25/08 F16F13/00 F16F9/34 (Advanced/Invention)

CPC: B62K25/08 F16F9/44

US: 267/217

**Family:**

Publication number	Publication date	Application number	Application date
US2016290432 AA	20161006	US20160084757	20160330
US2018135721 AA	20180517	US20180869309	20180112
US9903436 BB	20180227	US20160084757	20160330

Priority:

US20150139874P 20150330 US20160084757 20160330 US20180869309 20180112

Probable Assignee:

EKO SPORT INC

Assignee(s): (std):

EKO SPORT INC

Assignee(s):

EKO SPORTS INC

Inventor(s): (std):

BAREFOOT DAREK C

Agent(s):

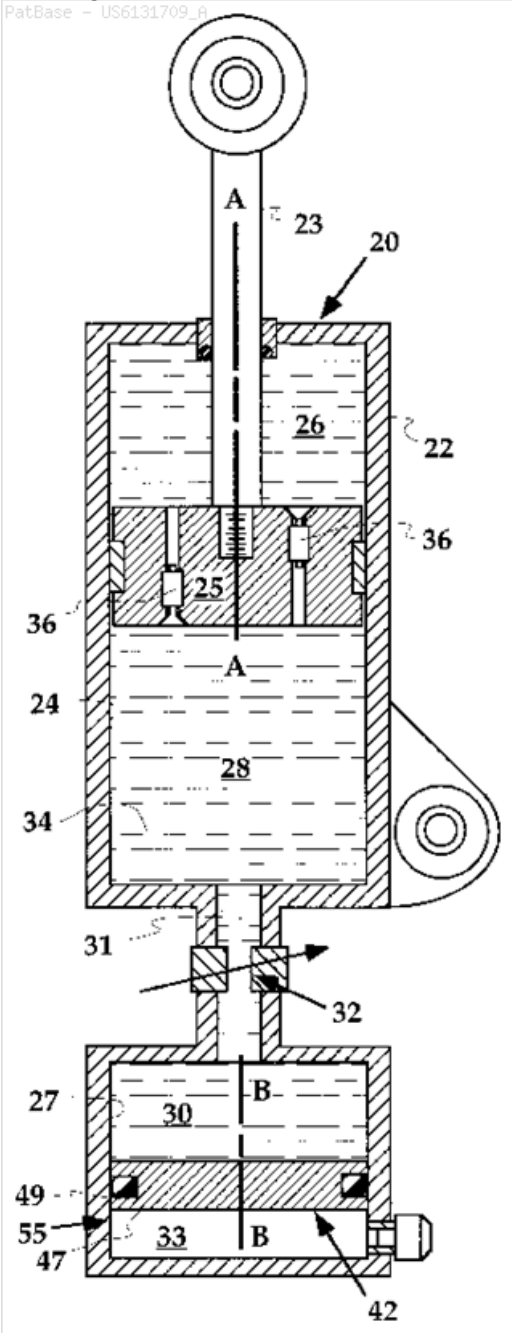
JASON H; KREMBLAS AND FOSTER

Title: ADJUSTABLE VALVE AND VIBRATION DAMPER UTILIZING SAME

Abstract: An adjustable valve including a passageway, a field responsive fluid within the passageway, and flow adjustment of the fluid through the passageway. In another aspect, the valve is in a vibration damper. In yet another aspect, the damper includes a body, a piston, first and second chambers, a damping valve, a piston rod, an auxiliary chamber, a passageway interconnecting to the auxiliary chamber, a field responsive fluid valve for controlling flow to the auxiliary chamber, and pressurization means. Preferably included is a cavity partition having field responsive fluid disposed on one side and non-field responsive fluid disposed on the other. This allows a reduction of MR fluid allowing use of lighter-weight, less-expensive, hydraulic fluids for flow through the piston's damping valve. In another aspect, the damper includes mechanical adjustment device for manually adjusting a damping level. Adjustment is accomplished by a moveable permanent magnet, moveable pole piece, moveable pole-and-magnet assembly, or magnetic shunt. Manual adjustment may include a knob, lever, or cable actuation. Alternately, magnetic flux is provided by an electromagnet. The valve and damper finds utility in any suspension system where a damper body is attached to a frame component, such as a **bicycle** frame, and the piston rod is attached to a suspension component, such as a **bicycle**'s swingarm.

Classifications:

International (IPC 8-9): F16F9/20 F16F9/44 F16F9/53 F16K13/10 F16K31/08 (Advanced/Invention); F16F9/14 F16F9/44 F16F9/53 (Core/Invention)
International (IPC 1-7): F16F1/00 F16F9/44 F16F9/53
CPC: Y10S137/909 F16F9/44 F16F9/20 F16F9/535
European: F16F9/20 F16F9/44 F16F9/53M
US: 137/909 188/267 188/267.2 188/322.15 188/322.22 267/64.15 60/326



Family:

Publication number	Publication date	Application number	Application date
CA2311707 AA	20000525	CA19982311707	19981120
DE69821799 D1	20040325	DE19986021799	19981120
DE69821799 D1	20040325	DE19986021799T	19981120
DE69821799 T2	20050113	DE19986021799T	19981120
EP1034383 A2	20000913	EP19980962818	19981120
EP1034383 B1	20040218	EP19980962818	19981120
JP2001524648 T2	20011204	JP20000522385T	19981120
JP2011158090 A2	20110818	JP20110006964	20110117
JP4778140 B2	20110921	JP20000522385T	19981120
US6131709 A	20001017	US19970978337	19971125

WO9927273 A2	19990603	WO1998US24790	19981120
WO9927273 A3	19991021	WO1998US24790	19981120

Priority:

US19970978337 19971125 JP20000522385 19981120 WO1998US24790 19981120

Probable Assignee: LORD CORP

Assignee(s): (std): LORD CORP

Assignee(s): LORD CORP CARY ; PRINDLE DONALD R ; CARLSON J DAVID ; JOLLY MARK R

Inventor(s): (std): CARLSON DAVID ; CARLSON J DAVID ; JOLLY MARK R ; JOLLY R ; PRINDLE DONALD R ; PRINDLE R

Inventor(s): CARLSON J

Agent(s): OGILVY RENAULT

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

4) Family number: 50837222 (JP5300830B)

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Title: INTERNAL MOTORIZED **BICYCLE** HUB

Abstract: In a **bicycle** wheel hub with a built-in motor, noise can be restrained when an outer ring of a bearing is mounted on a rotor through interference fit. The hub (10) with the built-in motor is provided with the following components: a hub shaft (15), a motor (11), a first bearing (66a), a second bearing (66b), a movement restraining part (68) and a pressing part (73). The motor (11) is provided with a rotor (21) and a stator (22) which is configured at the outer periphery side of the rotor (21). The first bearing (66a) and the second bearing (66b) are provided with the following components: a first inner ring (71a) and a second inner ring (72a) which are equipped on the hub shaft (15); a first outer ring (71b) and a second outer ring (72b) which are equipped on the stator (22); and a first rolling member (71c) and a second rolling member (72c) which are configured between the first outer ring and the second outer ring. The movement restraining part (68) restrains the movement of the first inner ring (71a) in a direction of departing from the second bearing (66b). The pressing part (73) can press the first outer bearing (71b) to the second bearing (66b).

Classifications:

International (IPC 8-9): B60B27/00 B60B27/04 B60B35/14

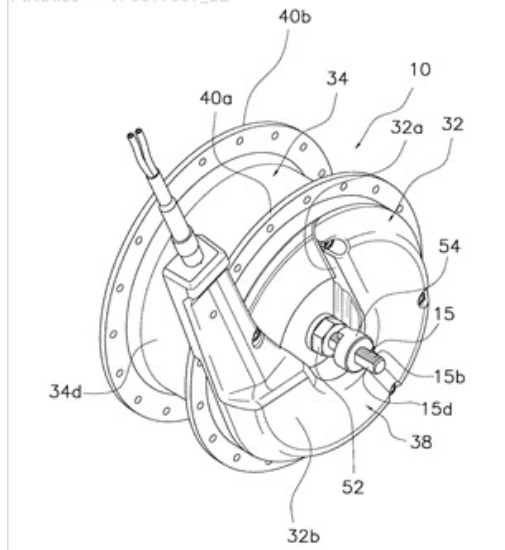
B60B35/18 B62M11/02 B62M6/65 B62M7/12 H02K5/16

H02K7/116 (Advanced/Invention)

CPC: B62M6/65

European: B62M6/65

PatBase - JP5300830_B2



Family:

Publication number	Publication date	Application number	Application date
CN102556271 A	20120711	CN201110436788	20111223
CN102556271 B	20140827	CN201110436788	20111223
DE202011109553 U1	20120213	DE201120109553U	20111223
JP2012136081 A2	20120719	JP20100288203	20101224
JP5300830 B2	20130925	JP20100288203	20101224
TWM428893 Y	20120511	TW20110222614U	20111130

Priority:

JP20100288203 20101224

Probable Assignee: KOKUSAN DENKI CO

Assignee(s): (std): KOKUSAN DENKI CO ; SHIMANO KK

Assignee(s): KOKUSAN DENKI CO LTD ; N A ; SHIMANO INC

Inventor(s): (std): ENDO MASAHIKO ; SHOGE AKIHIKO ; MASASHITA AKIHIKO ; MASAHIK ENDO ; ENDO MASAHIK ; AKIHIKO SHOGE

Agent(s): SHINJYU GLOBAL IP

5) Family number: 55406223 (US2013341138A)

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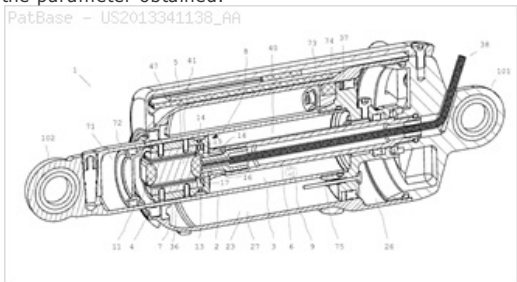
Title: SHOCK ABSORBER AND METHOD FOR OPERATING A SHOCK ABSORBER IN PARTICULAR FOR A **BICYCLE**

Abstract: Shock absorber and method for operating a shock absorber for a **bicycle** wherein a relative motion of a first and a second component interconnected via a damper device is dampened. The damper device comprises a controllable damping valve having at least one field generating device with which a field-sensitive medium can be influenced for influencing a damping force of the damper device by applying a field intensity of the field generating device. A parameter for the current speeds of the first and second components relative to one another is obtained in real time. For damping, a current field intensity to be set is derived in real time by means of the parameter from a characteristic damper curve and by means of the

field generating device the field intensity to be currently set is generated in real time for setting in real time a damping force which results from the predetermined characteristic damper curve at the parameter obtained.

Classifications:

International (IPC 8-9): B60G17/06 B62K25/04 B62K25/08 B62K25/28 B62K3/02 F16F15/00 F16F6/00 F16F9/00 F16F9/32 F16F9/34 F16F9/46 F16F9/50 F16F9/53 (Advanced/Invention); B62K25/04 B62K25/30 (Advanced/Non-invention)
CPC: B62K25/08 F16F9/50 B60G2300/12 F16F9/3292 F16F15/002 B62K25/04 B62K2025/044 F16F9/535 B60G17/08 B60G2400/10 B60G2400/252 B60G2401/14 B60G2401/174 B60G2401/176 B60G2600/04 B60G2600/20 B60G2600/24 B60G2600/60 B62J11/00 B62J2099/002 B62J2099/0026 B62K25/30 B62K2208/00 F16F9/53 F16F9/537
US: 1/1 188/267.1 188/267.2 701/37



Family:

Publication number	Publication date	Application number	Application date
DE102012012532 A1	20140102	DE201210012532	20120626
DE102015107710 A1	20161124	DE201510107710	20150518
DE102015107734 A1	20161124	DE201510107734	20150518
EP2679859 A2	20140101	EP20130003225	20130625
EP2679859 A3	20171227	EP20130003225	20130625
EP3109144 A1	20161228	EP20160170147	20160518
EP3298300 A1	20180328	EP20160727965	20160518
TW201404627 A	20140201	TW20130122717	20130626
TWI590959 B	20170711	TW20130122717	20130626
US2013341138 AA	20131226	US20130927874	20130626
US2015144443 AA	20150528	US20150614029	20150204
US2016339987 AA	20161124	US20160158044	20160518
US2016339988 AA	20161124	US20160158061	20160518
US9051988 BB	20150609	US20130927874	20130626
US9719574 BB	20170801	US20150614029	20150204
US10189534 BB	20190129	US20160158044	20160518
WO16184910 A1	20161124	WO2016EP61133	20160518

Priority:

DE201210012532 20120626 US20130927874 20130626 US20150614029 20150204
DE201510107710 20150518 DE201510107734 20150518 US20160158044 20160518
US20160158061 20160518 WO2016EP61133 20160518

Probable Assignee: DT SWISS INC

Assignee(s): (std): DT SWISS AG ; DT SWISS INC ; INVENTUS ENG GMBH

Assignee(s): INVENTUS ENGINEERING GMBH

Inventor(s): (std): WENDEL VALENTIN ; WALTHERT MARTIN ; POSEL JURGEN ; POESEL JUERGEN ; MAYER MARKUS ; ELSENSOHN GERNOT ; BATTLOGG STEFAN ; BATTLOG STEFAN

Agent(s): SCHUETTE HARTMUT; BSB INTELLECTUAL PROPERTY LAW; LAURENCE A; RALPH E; WERNER H; GREENBERG LAURENCE A; STEMER WERNER H; LOCHER RALPH E

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

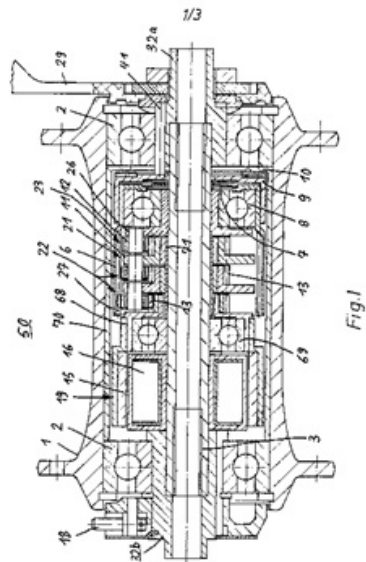
6) Family number: 30125238 (WO9426578A1) © PatBase

Title: **BICYCLE** HUB DYNAMO

Abstract: A **bicycle** hub dynamo for mounting in the hub of a **bicycle** wheel has two flanges for securing rim-holding spokes and is rotatively mounted on an axis of the wheel. The hub dynamo has a current generating rotor/stator induction system driven by a gear (21). The gear (21) rotates the rotor at a speed which corresponds to that of conventional **bicycle** dynamos. When the dynamo is disengaged, the gear (21) is completely separated from the hub body (1) and is completely at rest with respect to the axis (3). A hollow cylinder (6) with an internal toothing which surrounds the gear (21) covers all gear stages. The gear (21) is designed as a kind of planetary gear.

Classifications:

International (IPC 8-9): B62J6/12 F16D7/02 F16H35/10 H02K7/10 H02K7/116 H02K7/18 (Advanced/Invention); B62J6/00 F16D7/00 F16H35/00 H02K7/10 H02K7/116 H02K7/18 (Core/Invention)
International (IPC 1-7): B62J6/12 F16D7/02 F16H57/00 H02K7/10 H02K7/18
CPC: B62J6/12 F16D7/024 F16H35/10 H02K7/116
European: B62J6/12 F16D7/02D F16H35/10 H02K7/116

**Family:**

Publication number	Publication date	Application number	Application date
AT227223 E	20021115	AT19940918777T	19940516
CN1109680 A	19951004	CN19941090294	19940516
DE59410203 D1	20021212	DE19945010203	19940516
DE9300311 U1	19930624	DE19930000311U	19930113
DE9307438 U1	19931021	DE19930007438U	19930517
DE9312367 U1	19940310	DE19930012367U	19930825
EP0650431 A1	19950503	EP19940918777	19940516
EP0650431 B1	20021106	EP19940918777	19940516
JP7509425 T2	19951019	JP19940524985T	19940516
WO9426578 A1	19941124	WO1994EP01575	19940516

Priority:

DE19930000311U 19930113 DE19930007438U 19930517 DE19930012367U 19930825
 WO1994EP01575 19940516 DE19945010203 19940516

Probable Assignee: WANGERMANN UTE CHRISTINA

Assignee(s): (std): JOCHEN R WANGERMANN ; WANGERMANN JOCHEN R ; WANGERMANN JOCHEN R DR ING ; WANGERMANN UTE CHRISTINA

Assignee(s): WANGERMANN JOCHEN R DR ING 2210 ITZEHOE DE ; WANGERMANN JOCHEN R DR ING 25524 ITZEHOE DE

Inventor(s): (std): WANGERMANN UTE CHRISTINA ; WANGERMANN JOCHEN R ; JOCHEN R WANGERMANN

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

7) Family number: 51300314 (IN01477CH2012A)

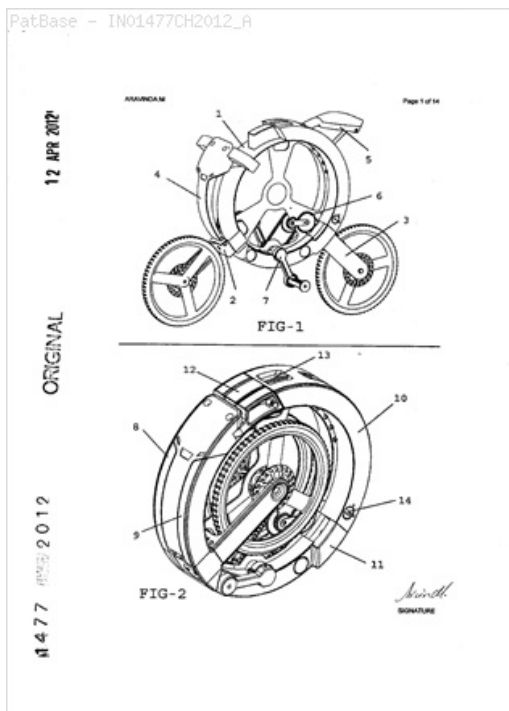
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Title: CIRCULAR FRAME FOLDING **BICYCLE**

Abstract: The Circular frame folding **Bicycle** consists of a circular frame 1 welded with support plates 15,16,17,18,21,22 and 23. The hole in the support plate 21b and 22a, act as pivot point for front and rear **forks** 2 and 3. The drive mechanism 6, Saddle 5 and casings 8,9,10 and 11 are mounted on the frame 1. When the **bicycle** is folded, both front and rear wheels fold inside the circular frame. The Saddle assembly 5, Steering Bar assembly 4 and Pedal assembly 7 get folded inside the casing. The **bicycle** folds into a circular frame and casing with no parts of **bicycle** protruding outside the casing. The **Bicycle** is less in width, easily carried, stowed and stored after being folded.

Classifications:

International (IPC 8-9): B62K B62M (Advanced/Invention)

**Family:**

Publication number	Publication date	Application number	Application date
IN01477CH2012 A	20120615	IN2012CH01477	20120412

Probable Assignee: MAHABALESHWARA ARAVINDA

Assignee(s): MAHABALESHWARA ARAVINDA

Inventor(s): MAHABALESHWARA ARAVINDA

8) Family number: 33508326 (EP0985596A2)

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Title: MOTOR-DRIVEN VEHICLE AND ITS CARD KEY DEVICE

Abstract: Object: To facilitate unlocking a battery lock and a parking lock on a rental motor-driven vehicle. Solving Means: An ID card (2) storing ID information and issued by a central management apparatus (1) is read by a reception station (5), which carries out a predetermined renting process to write permission information into the ID card (2). The ID card (2) is inserted into a card reader on a motor-assisted **bicycle** (7) to check the ID information, so that the parking lock can electrically be unlocked. After the motor-assisted **bicycle** has run, a battery is removed from the **bicycle** using the ID card (2) which stores a battery ID and vehicle information, and exchanged for a charged battery stored in a battery exchanger (8). The charged battery is installed on the **bicycle**, which is then returned to a parking lot (6).

Classifications:

International (IPC 8-9): B60R25/00 B60R25/04 B60R25/08 B60R25/10 B60R25/24 B62H5/00 B62H5/08 B62H5/16 B62H5/20 B62M23/02 B62M6/80 E05B49/00 G07B15/00 G07C9/00 G07F7/00 (Advanced/Invention);

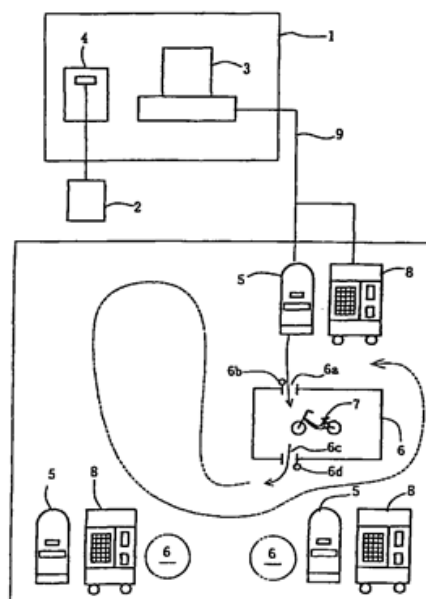
B60R25/04 B60R25/08 B60R25/10 B62H5/00 B62M6/00 E05B49/00 G07B15/00 G07C9/00 G07F7/00 (Core/Invention)

International (IPC 1-7): B60R25/00 B60R25/04 B60R25/08 B62H5/00 B62H5/08 B62H5/16 B62H5/20 B62M11/00 B62M23/02 E05B49/00 G07C5/08

CPC: B62M6/90 G07F17/0042 B62H5/00 B62H5/001 B62H5/20 G07B15/00 G07C9/00031 G07F17/0057 B60L2200/12 Y02T10/7005 Y02T10/7072 Y02T90/124 Y02T90/14 B62H2003/005 B60L50/20 B60L53/80

European: B62H5/00 B62H5/00B B62H5/20 G07B15/00 G07C9/00B6 G07F17/00D G07F17/00D4 G07F7/00D

PatBase - EP0985596_A2

FIG. 1**Family:**

Publication number	Publication date	Application number	Application date
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CN1135186 C	20040121	CN19991018532	19990907
CN1247142 A	20000315	CN19991018532	19990907
DE69933742 D1	20061207	DE19996033742	19990825
DE69933742 D1	20061207	DE19996033742T	19990825
DE69933742 T2	20070222	DE19996033742T	19990825
EP0985596 A2	20000315	EP19990116634	19990825
EP0985596 A3	20010124	EP19990116634	19990825
EP0985596 B1	20061025	EP19990116634	19990825
ES2274597 T3	20070516	ES19990116634T	19990825
IN01114DE1999 A	20080801	IN1999DE01114	19990817
IN03101DE2005 A	20160603	IN2005DE03101	20051121
IN250212 B	20111223	IN1999DE01114	19990817
JP2000142514 A2	20000523	JP19980296065	19981002
JP4113622 B2	20080709	JP19980296065	19981002
TW486440 B	20020511	TW19990114592	19990826
VN3542 A1	20030625	VN19990000722	19990907

Priority:

JP19980274320 19980907 JP19980274320 19980909 JP19980296065 19981002
IN1999DE01114 19990817

Probable Assignee: HONDA GIKEN KYOGO KABUSHIKISHIKI KAISHA

Assignee(s): (std): HONDA GIKEN KOGYO KK ; HONDA MOTOR CO LTD

Assignee(s): HONDA GIKEN KYOGO KABUSHIKISHIKI KAISHA ; HONDA MOTOR CO ; HONDA GIKEN KOGYO K K ; HONDA GIKEN KOGYO KABUSHIKI KAISHA

Inventor(s): (std): HATANAKA KAORU ; HIDEITSUNE NAKURA ; KAORU HATANAKA ; NAGURA HIDENORI ; NAKURA HIDEITSUNE ; SHIMMURA HIROYUKI ; SHIMURA HIROYUKI ; NIIMURA HIROYUKI ; NAKURA SHUSUKE ; HIROYUKI SHIMURA

Inventor(s): KAORU HATAKANA ; HIROYUKI SHIMMURA ; HIDENORI NAGURA

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

9) Family number: 55891355 (US2014070675A)

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Title: EDDY CURRENT GENERATOR FOR **BICYCLES**

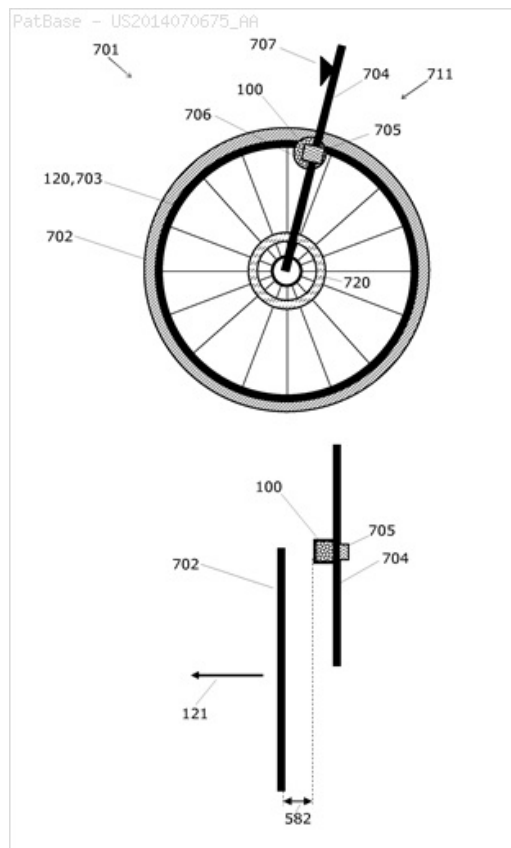
Abstract: The invention relates to an electrical generator for **bicycles** and similar vehicles. The generator includes a moveable magnet part which will generate an induction current in a coil when the magnet part moves. The generator is configured to be mounted near an electrical conducting part of the **bicycle**. The electrical conducting part, e.g. a rim, is rotatably arranged with the **bicycle**. When the electrical conducting part rotates the magnetic field from the magnet part will generate eddy current in the electrical conducting part. The eddy current will generate a magnetic field which will force the magnet part to move, e.g. rotate. Thus, an electrical current will be generated in the coil when the electrical conducting part rotates.

Classifications:

International (IPC 8-9): B62J6/06 H02K21/12
H02K7/18 (Advanced/Invention)

CPC: H02K7/1846 H02K7/1869 B62J6/08

US: 310/75C



Family:

Publication number	Publication date	Application number	Application date
DE202013011949 U1	20150108	DE201320011949U	20130828
EP2703264 A1	20140305	EP20130182031	20130828
US2014070675 AA	20140313	US20130012349	20130828

Priority:EP20120182032 20120828
US20130012349 20130828

US20120694952P 20120830

EP20130182031 20130828

Probable Assignee: REELIGHT APS**Assignee(s):** (std): REELIGHT APS**Inventor(s):** (std): LINNEBJERG KENNETH**Agent(s):** PLOUGMANN AND VINGTOFT A S**Designated states:** AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO
PL PT RO RS SE SI SK SM TR**10) Family number: 51934355 (WO12125165A1)**

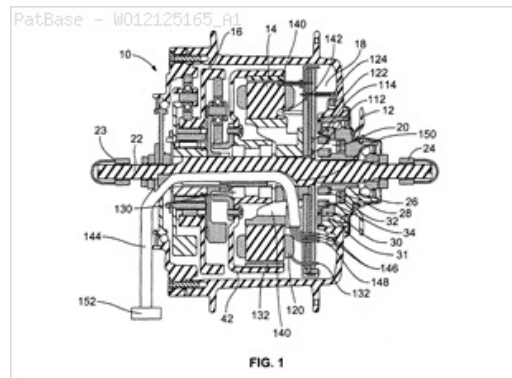
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Title: **BICYCLE** MOTOR DRIVE HUB AND MOTOR CONTROLLER

Abstract: A motor drive hub, in particular for a handlebar-steered vehicle, comprises: - a transmission assembly configured to drive the vehicle in forward direction; - an electric motor rotatable in a first direction and in a second direction and configured to drive the transmission assembly, - the transmission assembly configured to operate in a first operating mode when the motor is rotating in the first direction to provide at least one first drive speed in the forward direction and in a second operating mode when the motor is rotating in the second direction to provide at least one second drive speed in the forward directions motor controller for controlling the motor, wherein the motor is switched by the motor controller between a state in which it rotates in said first direction and a state in which it rotates in said second direction depending on a speed parameter.

Classifications:**International (IPC 8-9):** B62M11/18 B62M6/45 B62M6/50

F16H3/00 (Advanced/Invention)

CPC: B62M11/14 B62M11/16 B62M6/50 B62M6/45 B62M11/18
F16H3/005**European:** B62M11/18 B62M6/45 B62M6/50 R16H3/00D1**Family:**

Publication number	Publication date	Application number	Application date
DE112011104916 T5	20131121	DE201111104916T	20110316
WO12125165 A1	20120920	WO2011US28686	20110316

Priority:

WO2011US28686 20110316

Probable Assignee: SRAM LLC**Assignee(s):** (std): JORDAN BRIAN ; SRAM LLC**Inventor(s):** (std): JORDAN BRIAN**Agent(s):** SERDYNski LISA**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU
CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL
IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW
MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV
SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**11) Family number: 10999407 (US5924511A)**

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Title: CONTROL FOR ELECTRIC POWER ASSISTED VEHICLE

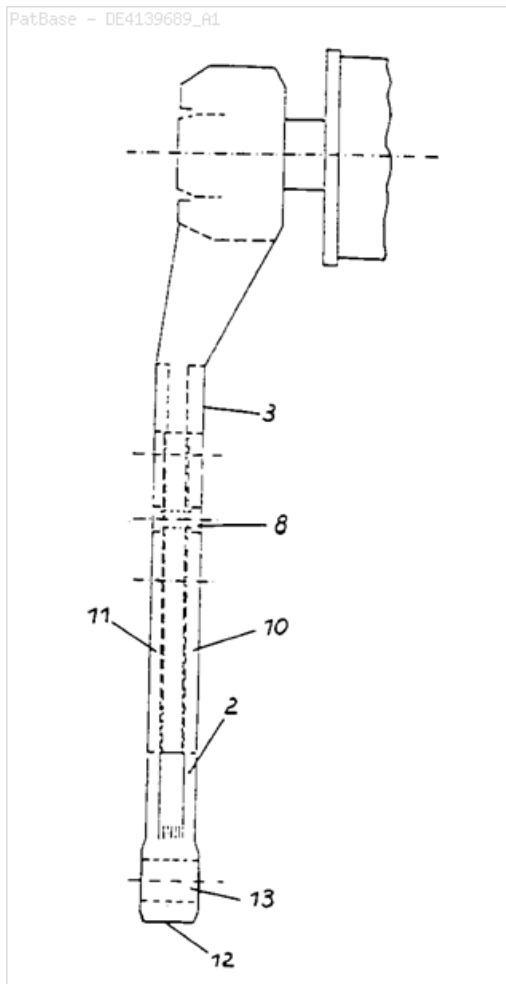
Abstract: A power assisted manually operated vehicle wherein the power assist is capable of providing different power and speed curves depending upon the operating condition. The operator may also select one of these conditions for manual operation such as to obtain an assist when pushing the vehicle. The variable speed and power curves are obtained with a permanent magnet electric motor with the variations being obtained by varying the field strength of the permanent magnet through an augmenting coil.

Classifications:**International (IPC 8-9):** B60L15/28 B62M6/40 (Advanced/Invention);

B60L15/20 B62M6/00 (Core/Invention)

International (IPC 1-7): B60L15/04 B60L15/28 B62M23/02
B63K11/00**CPC:** B62M6/45 B60L15/20 B60L2200/12 B62M6/55 Y02T10/7005
Y02T10/7275 Y02T10/645 B60L50/20 B60L50/53**European:** B60L11/18A B60L15/20 B62M23/02B2 B62M6/45
B62M6/55 L60L200/12 Y02T10/70 Y02T10/70B Y02T10/72D4**US:** 180/205 180/206.2 180/206.4



**Family:**

Publication number	Publication date	Application number	Application date
DE4139689 A1	19930218	DE19914139689	19911202
DE4139689 C2	19930527	DE19914139689	19911202
DE9110165 U1	19920507	DE19910010165U	19910816

Priority:

DE19910010165U 19910816 DE19910010165U 19910816 DE19914139689 19911202
 DE19914139689 19911202

Probable Assignee: REES BERTRAM DIPL PAED

Assignee(s): (std): REES BERTRAM DIPL PAED

Assignee(s): REES BERTRAM DIPL PAED 7831 MALTERDINGEN DE

Inventor(s): (std): REES BERTRAM

Inventor(s): REES BERTRAM DIPL PAED ; REES BERTRAM DIPL PAED 7831 MALTERDINGEN DE

13) Family number: 29798471 (JP2003335291A)

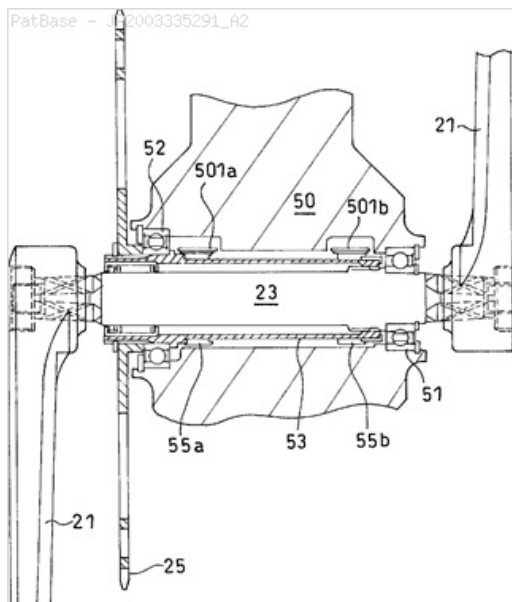
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Title: PEDALING FORCE DETECTING DEVICE FOR POWER-ASSISTED **BICYCLE**

Abstract: PROBLEM TO BE SOLVED: To provide a pedaling force detecting device capable of detecting torque in an excellent state while reducing the number of parts and having an easy and small-sized structure. SOLUTION: One end of a crankshaft 23 is rotatably journaled by a bearing 51. A cylindrical torsion bar 53 is penetrated and inserted into the outer periphery of the crankshaft 23, the one end is spline-coupled with the outer peripheral surface of the crankshaft 23 in the vicinity of the bearing 51, and the other end is rotatably journaled by a bearing 52. A pedal sprocket 25 is meshed with the outer peripheral surface on the other end side of the torsion bar 53. A pair of magnet rings 55 are mounted along a circumferential direction on external surfaces in the vicinity of the one end side and in the vicinity of the other end side of the torsion bar 53. A pair of MR sensors 501 are arranged at positions facing the magnet rings 55.

Classifications:

International (IPC 8-9): B62J99/00 B62M23/02 B62M6/60 B62M6/80
 B63K11/00 G01L3/10 G01L5/13 H02K21/22 (Advanced/Invention);
 B62J99/00 B62M6/00 G01L3/10 G01L5/13 H02K21/22 (Core/Invention)
International (IPC 1-7): B62J39/00 B62M23/02 G01L3/10 G01L5/13
 H02K21/22



Family:

Publication number	Publication date	Application number	Application date
CN1212954 C	20050803	CN20031008225	20030325
CN1459620 A	20031203	CN20031008225	20030325
IN00367DE2003 A	20171013	IN2003DE00367	20030325
JP2003335291 A2	20031125	JP20020144539	20020520
TW200307123 A	20031201	TW20030106653	20030325
TWI226433 B	20050111	TW20030106653	20030325
VN7129 A1	20080725	VN20030000379	20030424

Priority:

JP20020144539 20020520

Probable Assignee: HONDA MOTOR CO LTD

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

Assignee(s): HONDA GIKEN KOGYO K K ; HONDA GIKEN KOGYO KABUSHIKI KAISHA ; HONDA GIKEN KOGYO KK ; HONDA MOTOR CO

Inventor(s): (std): TOMOKAZU SAKAMOTO ; KAZUMI SHIBATA ; ATSUSHI KOMEHANA ; SHIBATA KAZUMI ; SAKAMOTO TOMOKAZU ; KOMEHANA ATSUSHI

Inventor(s): ATSUSHI YONEHAMA ; YONEHANA, ATSUSHI

14) Family number: 51757497 (DE102011004464A1)

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Title: SAFETY SYSTEM FOR **BICYCLE**, PARTICULARLY FOR PEDELEC OR ELECTRIC **BICYCLE**, HAS ELECTRIC OR MECHANICAL LOCKING DEVICE, WHERE SEMI-AUTOMATIC ACTIVATION OF LOCKING DEVICE BY **BICYCLE** USER TAKES PLACE AFTER OUTPUTTING REQUEST SIGNAL

Abstract: The safety system has an electric or mechanical locking device, where the semi-automatic activation of the locking device by the **bicycle** user takes place after outputting a request signal of an operating unit (2) connected with the **bicycle** or a separate remote control.

Classifications:

International (IPC 8-9): B62H5/14 (Advanced/Invention)

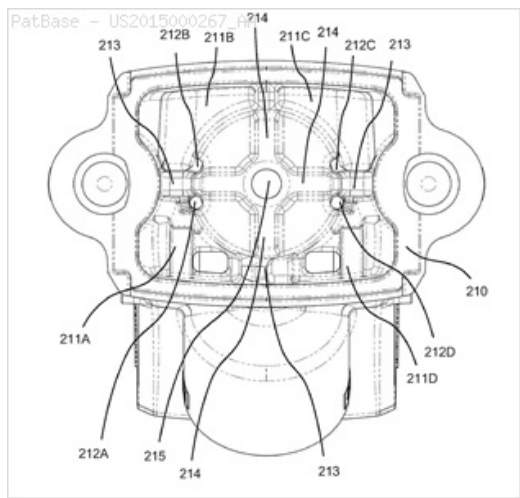
CPC: B62H5/147 B62H5/18

European: B62H5/14E B62H5/18

Publication number	Publication date	Application number	Application date
DE102011004464 A1	20120823	DE201110004464	20110221

Inventor(s): (std): BITTNER GUENTER ; WAGNER KLAUS

US: 60/592



Publication number	Publication date	Application number	Application date
DE502013004354 D1	20161020	DE201350004354T	20130228
EP2634051 A1	20130904	EP20120157814	20120301
EP2819897 A1	20150107	EP20130706558	20130228
EP2819897 B1	20160907	EP20130706558	20130228
TW201406601 A	20140216	TW20130107361	20130301

US2015000267 AA	20150101	US20140467759	20140825
US9731789 BB	20170815	US20140467759	20140825
WO13127939 A1	20130906	WO2013EP54071	20130228

Priority:

EP20120157814 20120301 EP20130706558 20130228 WO2013EP54071 20130228
US20140467759 20140825

Probable Assignee: GUSTAV MAGENWIRTH GMBH AND CO KG

Assignee(s): (std): MAGENWIRTH GMBH AND CO GUSTAV KG

Assignee(s): GUSTAV MAGENWIRTH GMBH AND CO ; GUSTAV MAGENWIRTH GMBH AND CO KG

Inventor(s): (std): RUOPP MICHAEL

Agent(s): FRIESE GOEDEN PATENTANWAELTE PARTGMBB; FRIESE MARTIN; ANDRAE WESTENDORP
PATENTANWAELTE PARTNERSCHAFT; FRIESE GOEDEN PATENTANWAELTE; MAYBACK AND HOFFMAN PA;
GREGORY K; FRIESE MARTIN ET AL

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

16) Family number: 60353514 (US2016031506A)

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Title: ELECTRIC **BICYCLE**

Abstract: An apparatus includes a **bicycle** frame defining a bore, and a **bicycle** seat assembly including a post received in the bore. An indicating unit is configured to indicate a first position of the post along the bore for a first user and a second position of the post along the bore for a second user. An identification unit is configured to identify the first user and the second user. A computing device includes a processor and a memory, the memory storing instruction such that the processor is programmed to instruct the indicating unit to indicate the first position when the identification unit identifies the first user and to instruct the indicating unit to indicate the second position when the identification unit identifies the second user.

Classifications:

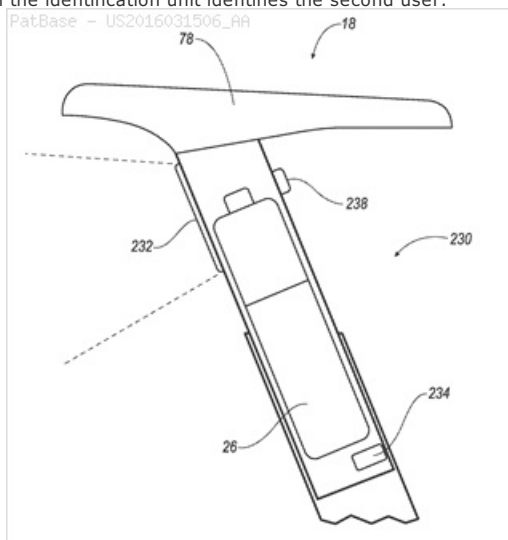
International (IPC 8-9): B60L11/00 B60L11/18 B60L15/20 B60Q9/00
B60R16/02 B62H5/00 B62H5/20 B62J1/00 B62J1/08 B62J1/10
B62J27/00 B62J3/00 B62J6/00 B62J6/04 B62J99/00 B62K1/00
B62K11/00 B62K15/00 B62K17/00 B62K19/36 B62K21/12
B62K21/16 B62K21/26 B62K25/02 B62K3/00 B62K3/02 B62M6/40
B62M6/45 B62M6/50 B62M6/55 B62M6/70 B62M6/80 B62M6/90
B62M7/00 B62M7/06 B62M7/12 E05B71/00 G05D3/10 G06F1/16
G06F13/00 G06F13/40 G06F3/00 G06F5/00 G06F9/445 G08G1/16
H01H5/02 (Advanced/Invention);
B62D3/00 B62H5/00 (Advanced/Non-invention);
B60L11/00 B62J27/00 B62J6/00 B62J99/00 B62K15/00 B62K3/00
H05B39/00 (Core/Invention);
B62H5/00 (Core/Non-invention)

CPC: B62J6/003 B62J2099/008 B62J2099/0013 B62J1/08 G08G1/165
G08G1/166 G06F13/4081 G06F1/1632 G06F1/1683 G06F1/1698
B62J2099/002 B62K21/16 G05D3/10 B62K3/02 B62K2015/001
B60L15/20 B62J6/04 B62K19/36 B62M6/55 B62K2206/00
B62J2001/085 B62J3/00 B60Q9/00 B62K21/12 B62K21/26
B62K15/00 B62H5/08 B62H5/003 B62J6/00 B62K13/00
B62K2015/003 B62M9/06 B62K3/00 B62H3/00 B62K3/06
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B60L2250/16 B60L2250/20 B60L2250/26 B60L2260/52 B60L2260/54
B62H5/20 B62H2005/008 B62J2099/0006 B62J2099/0026
B62K15/008 B62K25/02 B62K2015/005 B62K2204/00 Y02T10/645
Y02T10/7005 Y02T10/7072 Y02T10/72 Y02T10/7275 Y02T90/121
Y02T90/128 Y02T90/14 Y02T90/16 Y02T90/163 G08G1/167 B62H5/00 B62J99/00 B62M6/45 B60L11/1816 B62M7/06
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B60L53/60

US: 180/206.1 180/206.2 180/206.7 180/207.3 280/278 280/281.1 280/287 297/195.1 701/22 701/301 701/41 701/49
701/70 710/304

Family:

Publication number	Publication date	Application number	Application date
CN105314026 A	20160210	CN201510464649	20150731
CN105314034 A	20160210	CN201510463448	20150731
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CN105314036 A	20160210	CN201510463466	20150731
CN105314037 A	20160210	CN201510463689	20150731
CN105314038 A	20160210	CN201510464771	20150731
CN105314039 A	20160210	CN201510465006	20150731
CN105365967 A	20160302	CN201510463449	20150731
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GB2530620 A1	20160330	GB20150012939	20150722
GB2530620 B2	20190116	GB20150012939	20150722
GB2530621 A1	20160330	GB20150012942	20150722
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MX351957 B	20171106	MX20150009928	20150731
MX352020 B	20171107	MX20150009930	20150731
RU2015131802 A	20170131	RU20150131802	20150730
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US9616959 BB	20170411	US20150805033	20150721
US9663177 BB	20170530	US20150804958	20150721
US9701356 BB	20170711	US20150804879	20150721
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US9963185 BB	20180508	US20150804907	20150721
US10202161 BB	20190212	US20170608039	20170530

Priority:

US20140032173P	20140801	US20150804879	20150721	US20150804907	20150721
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RU20150131813	20157330	US20170608039	20170530		

Probable Assignee: FORD GLOBAL TECHNOLOGIES LLC

Assignee(s): (std): FORD GLOBAL TECH LLC

Assignee(s): FORD GLOBAL TECHNOLOGIES LLC

Inventor(s): (std): BRUCE SOUTHEY ; CRAVEN RICHARD ; GERHARDT TORSTEN ; JAMES LLOYD ; JAMES NEUGEBAUER ; JONATHAN MUNDY ; LLOYD JAMES ; MUNDY JONATHAN ; NEUGEBAUER JAMES ; POTTICARY SIMON ; RICHARD CRAVEN ; SIMON POTTICARY ; SOUTHEY BRUCE ; TORSTEN GERHARDT ; LOYD JAMES

Agent(s): FRANK; BEJIN BIENEMAN PLC; FRANK A; BEJIN BIENERMAN PLC; STEC JENNIFER

Title: SHOCK ABSORBER FOR A **BICYCLE**

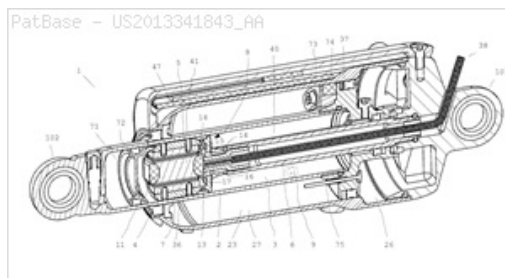
Abstract: Shock absorber for an at least partially muscle-powered **bicycle** having a damper device having a first and a second damper chamber assigned thereto which are hydraulically coupled with one another through a damping valve. In the damping valve a flow duct with a field-sensitive, rheological medium is provided. The damping valve has a field generating device assigned to it which serves for generating and controlling a field intensity in the flow duct of the damping valve. The flow duct comprises in the damping valve a collection chamber which is hydraulically connected with the first damper chamber through a plurality of flow apertures, wherein at least one flow aperture is configured as a through hole and at least one flow aperture, as a closable valve opening provided with a one-way valve. The collection chamber is hydraulically connected hydraulically with the second damper chamber via a plurality of fan-type damping ducts each separated from one another by a fan wall.

Classifications:

International (IPC 8-9): B62K19/30 B62K25/04 F16F13/00 F16F9/34 F16F9/53 (Advanced/Invention); F16F9/49 (Advanced/Non-invention)

CPC: B62K25/04 F16F9/537 F16F9/532 F16F13/00 F16F9/49 B62K2025/044 F16F9/3405 F16F9/53

US: 188/267.1 188/267.2 267/140.14



Family:

Publication number	Publication date	Application number	Application date
DE102012012534 A1	20140102	DE201210012534	20120626
EP2679857 A2	20140101	EP20130003226	20130625
EP2679857 A3	20171227	EP20130003226	20130625
TW201408901 A	20140301	TW20130122718	20130626
TWI588380 B	20170621	TW20130122718	20130626
US2013341843 AA	20131226	US20130927709	20130626
US9033120 BB	20150519	US20130927709	20130626

Priority:

DE201210012534 20120626

Probable Assignee: DT SWISS INC

Assignee(s): (std): DT SWISS AG ; DT SWISS INC

Inventor(s): (std): BATTLOGG STEFAN ; KIEBER MICHAEL ; POESEL JUERGEN ; POSEL JURGEN ; WALTHERT MARTIN

Agent(s): SCHUETTE HARTMUT; BSB INTELLECTUAL PROPERTY LAW; LAURENCE A; RALPH E; WERNER H

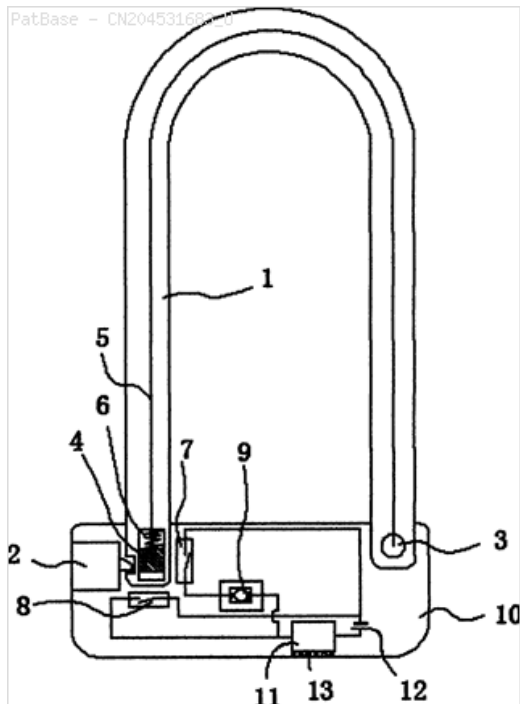
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: **BICYCLE** WARNING LOCK

Abstract: The utility model discloses a **bicycle** warning lock, including lock seat, U-shaped lock **fork** and lock core, the stiff end of U-shaped lock **fork** passes through the hinge and locks the seat articulatedly, the free end plug-in card of U-shaped lock **fork** is in the lockhole of lock seat, tip at the free end is equipped with a cavity, be equipped with magnet in the cavity, be equipped with the steel wire in the U-shaped lock **fork**, steel wire one end is concreted in the hinge, the other end concreted in **magnet**, be equipped with the **spring** between the top of cavity and **magnet**, under of the pulling of steel wire, **magnet** compression **spring** just is located the middle part of cavity, the lock seat department on cavity right side is equipped with first tongue tube switch, the lock seat department of cavity below is equipped with second tongue tube switch, first tongue tube switch concatenates with vibrations sensor, alarm, then and connect on the battery, second tongue tube switch concatenates with the alarm, then and connects on the battery. The utility model discloses the ability of reporting to the police consumption of electric energy is fit for not having drive power supply's **bicycle** to use, left out the remote controller, greatly reduced the cost.

Classifications:

International (IPC 8-9): E05B17/22 E05B45/06 E05B67/10 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN204531683 U	20150805	CN201520079709U	20150204

Priority:

CN201520079709U 20150204

Probable Assignee:

GE RUIJIE

Assignee(s): (std):

GE RUIJIE

Inventor(s): (std):

GE RUIJIE

19) Family number: 8062598 (DE3939609A1)

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Title: TRAINING **BICYCLE** WITH FREE WHEEL - WHICH CAN BE LOCKED IF DESIRED SO THAT **BICYCLE** OPERATES AS WITH FIXED WHEEL

Abstract: The **bicycle**, esp. a training or keep-fit **bicycle** has pedals attached to cranks fastened to a chainwheel which drives a wheel through a sprocket fitted with a freewheel. The **bicycle** has device to hinder the functioning of the free-wheel so that the **bicycle** wheel cannot continue to rotate when the pedals are not being driven. A magnet (17) fitted in the **bicycle** wheel hub locks the free wheel (14) so that the wheel only rotates when the pedals are being operated. USE - Training **bicycle** with freewheel which may be locked out of action.

Classifications:

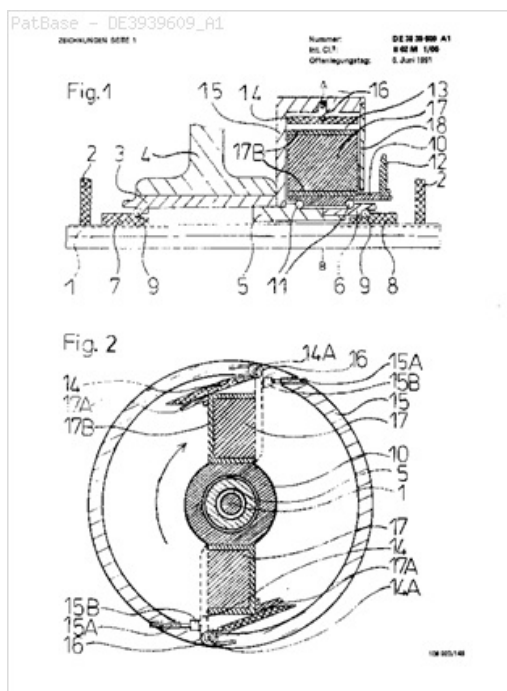
International (IPC 8-9): A63B23/04 B62M1/36 (Advanced/Invention)

International (IPC 1-7): A63B23/00 A63B23/04 B62M1/00

F16D41/28

CPC: A63B22/0605 B62M1/36

European: A63B23/04C B62M1/36



Family:

Publication number	Publication date	Application number	Application date
DE3939609 A1	19910606	DE19893939609	19891130

DE3939609 C2	19930729	DE19893939609	19891130
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Priority:

DE19893939609 19891130

Probable Assignee: MERTESDORF FRANK L DR

Assignee(s): (std): MERTESDORF FRANK L DR

Assignee(s): MERTESDORF FRANK L DR 4330 MUELHEIM DE ; MERTESDORF FRANK L

Inventor(s): (std): MERTESDORF FRANK L DR

Inventor(s): MERTESDORF FRANK L

20) Family number: 58629634 (US2015061241A)

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Title: SUSPENSION CONTROL APPARATUS FOR A **BICYCLE** AND SUSPENSION CONTROL METHOD

Abstract: Suspension control and method for controlling a damper device of a **bicycle** that includes a damper device having a controllable damping valve. The damper device serves to dampen a relative motion between a first and a second component. A control device and a memory device are provided. The control device and the memory device define a characteristic damper curve which is characteristic of a correlation between a damping force and a characteristic parameter of the relative motion between the first and second components. At least one electric operating device is provided by means of which the defined characteristic damper curve can be modified in at least two sections of the characteristic damper curve while riding.

Classifications:

International (IPC 8-9): B60G17/016 B60G17/06 B60G17/08

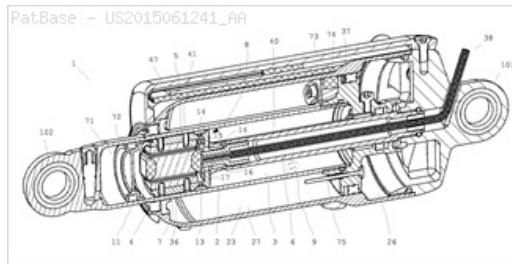
B62K23/02 B62K25/04 F16F9/18 F16F9/32

F16F9/512 (Advanced/Invention)

CPC: F16F9/512 F16F9/3292 F16F9/185 B62K23/02 B62K25/04

B62K2025/044 B62K2025/048 F16F9/08 F16F9/535

US: 1/1 280/5.504 701/37



Family:

Publication number	Publication date	Application number	Application date
DE102013014091 A1	20150305	DE201310014091	20130827
US2015061241 AA	20150305	US20140469798	20140827
US9273747 BB	20160301	US20140469798	20140827

Priority:

DE201310014091 20130827

Probable Assignee: DT SWISS INC

Assignee(s): (std): DT SWISS AG ; DT SWISS INC

Inventor(s): (std): ELSENSOHN GERNOT ; POESSEL JUERGEN ; WALTHERT MARTIN ; BATTLOGG STEFAN

Agent(s): LAURENCE A; RALPH E; WERNER H

21) Family number: 42868697 (FR2918957A)

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Title: TRANSMISSION SYSTEM'S I.E. GEARBOX, MECHANICAL SPEED CHANGING DEVICE FOR E.G. ROAD **BICYCLE**, HAS MOVEMENT TRANSFORMATION UNITS TRANSFORMING ROTATIONAL MOVEMENT OF CRANK OF **BICYCLE** INTO TRACTION OR RELEASING FORCE OF CABLES OF DERAILLEURS

Abstract: The device (1) has rotational movement transformation units transforming rotational movement of a crank of a **bicycle** e.g. road **bicycle**, into a traction or releasing force of cables of front and rear derailleurs (3, 4), and a ratchet with a spring plate system fixed on a beam by a rivet, where the system is made of elastic material. The derailing units laterally displace an endless mechanical chain (70k) between a set of toothed plates (7a-7c) or pinions (70a, 70j), using traction or releasing the cables. Mechanical control units control displacement of the derailing units. An independent claim is also included for a method for changing speed of a transmission system of a **bicycle**.

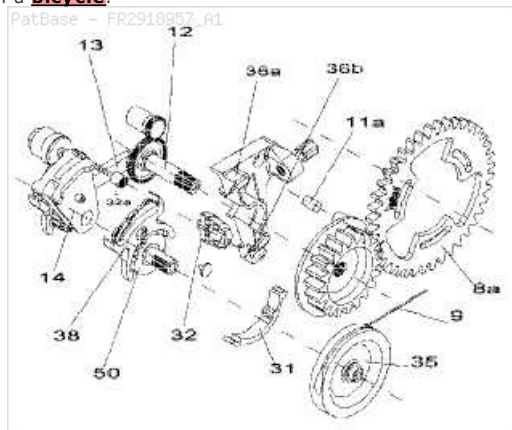
Classifications:

International (IPC 8-9): B62M25/02 B62M9/133 (Advanced/Invention);

B62M25/00 B62M9/00 (Core/Invention)

CPC: B62M9/133 B62M25/02 B62M2025/006

European: B62M25/02 B62M9/133 L62M25/00C



Family:

Publication number	Publication date	Application number	Application date
FR2918957 A1	20090123	FR20070005275	20070720

Priority:

FR20070005275 20070720

Probable Assignee:

BURDON PIERRE

Assignee(s): (std):

BURDON PIERRE

Inventor(s): (std):

BURDON PIERRE

22) Family number: 55203725 (WO13173932A1)

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Title: GEAR-CHANGING DEVICE

Abstract: A gear-changing device (1), in particular a gear-changing device (1) for a gear-change mechanism, comprises a gear-changing lever (100) and a gear-changing lever guide (200), wherein the gear-changing lever (100) is mounted movably on the gear-changing lever guide (200) and is movable between a neutral position and at least one first gear-changing position. In the first gear-changing position, the gear-changing lever (100) is subjected to a return force which returns the gear-changing lever (100) into the neutral position, wherein the return force is realized in the form of a magnetic force. A gear-changing device (1) which, because of the contact-free transmission of force, is both particularly aesthetic and also highly robust during operation is thus provided.

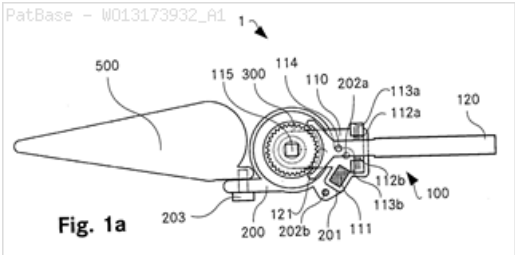
Classifications:

International (IPC 8-9): B62K23/06 B62M25/04 F16H59/02

G05G5/05 G05G7/06 (Advanced/Invention);

B62K23/06 B62M25/04 H01H3/04 (Advanced/Non-invention)

CPC: G05G7/06 B62M25/04 G05G5/05 B62K23/06



Family:

Publication number	Publication date	Application number	Application date
CH706559 A2	20131129	CH20120000729	20120525
EP2856274 A1	20150408	EP20120780638	20121022
WO13173932 A1	20131128	WO2012CH00241	20121022

Priority:

CH20120000729 20120525

CH20120072912 20120525

WO2012CH00241 20121022

Probable Assignee: KOLLER STEFAN

Assignee(s): (std): KOLLER STEFAN

Assignee(s): STEFAN KOLLER

Inventor(s): (std): KOLLER STEFAN

Inventor(s): STEFAN KOLLER

Agent(s): STAEBLER ROMAN

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

23) Family number: 41742741 (US2008093955A)

© PatBase

Title: ELECTRICITY GENERATING WHEEL SYSTEM

Abstract: An system and apparatus for capturing electricity comprised of: a wheel and a fixed conducting rod, both in electrical contact with the wheel and at least one electrical component or system in which the wheel is rotatable about an axis. The wheel is comprised of: a rotatable hub; a rotatable conducting rod within the rotatable hub; at least one electricity generating device positioned on the hub and comprised of: a generally hollow housing having a distal end and a proximate end; a wire coil fixed within the housing and having an axial bore therethrough; a translatable magnet; and at least one wire in electrical contact with the wire coil and the rotatable hub; wherein as the wheel is rotated, the translatable magnet laterally translates back and forth within the housing and passing through the wire coil to generate the electric current.

Classifications:

International (IPC 8-9): B62J6/00 F02B63/00 F21V33/00 H01J9/24

H02K35/00 H02K41/00 H02K7/18 (Advanced/Invention);

B62J6/00 F02B63/00 H01J9/24 H02K35/00 H02K41/00

H02K7/18 (Core/Invention)

CPC: H02K7/1846 H02K7/1892 H02K35/02 B62J6/00 B62M3/00

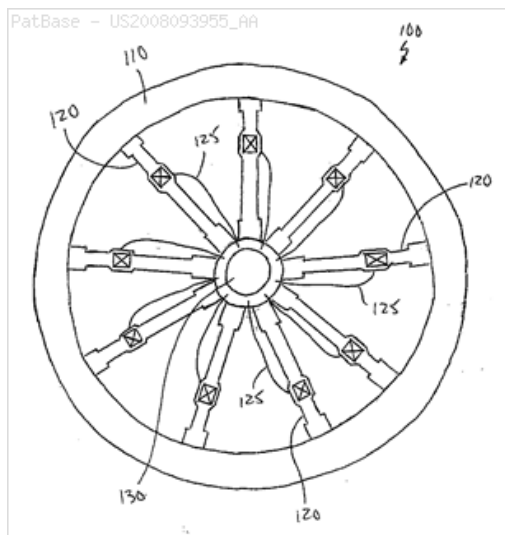
B62M3/12

European: B62J6/00 B62M3/00 B62M3/12 H02K35/02 H02K7/18A3

H02K7/18C T02K35/02

US: 290/1R 310/15 310/17 310/17S 310/36 310/58 310/67A

310/75C 362/183 362/192 362/473 362/473P 445/23 445/23S



Family:

Publication number	Publication date	Application number	Application date
US2008093955 AA	20080424	US20070869455	20071009
US2009268479 AA	20091029	US20090496010	20090701
US7687943 BB	20100330	US20070869455	20071009
US8132945 BB	20120313	US20090496010	20090701

Priority:

US20060852756P 20061019 US20070869455 20071009 US20090496010 20090701

Probable Assignee: LUNDE DOUG

Assignee(s): (std): LUNDE DOUG

Inventor(s): (std): LUNDE DOUG

Agent(s): ABSOLUTE TECHNOLOGY LAW GROUP LLC

24) Family number: 42118815 (WO08101507A1)

© PatBase

Title: TWO-PART GENERATOR FOR VEHICLES

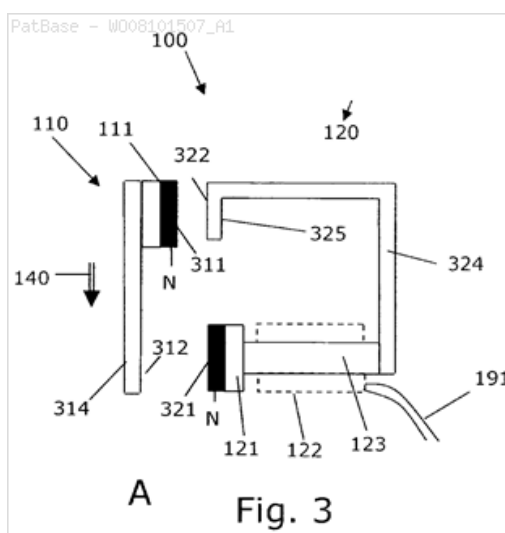
Abstract: The invention relates to a generator for vehicles for generating electric current. The generator includes a first part (110) and a second part (120). The first part, which may be fixed to the spokes of a **bicycle** wheel, includes a first permanent magnet (111). The second part includes a second permanent magnet (121) and a coil (122). The second part may be fixed to the frame of the **bicycle**, such as the front **fork**, so that an electric current is induced in the coil when the first part passes the second part. The windings of the coil may be connected to the lights of the **bicycle**, which lights, e.g. light emitting diodes, may be integrated with the second part.

Classifications:

International (IPC 8-9): B62J6/06 (Advanced/Invention); B62J6/00 (Core/Invention)

CPC: B62J6/06 B62J6/20 H02K7/1846 H02K21/12

European: B62J6/06 B62J6/20 H02K7/18A3 T02K21/12



Family:

Publication number	Publication date	Application number	Application date
DE602008019939 D1	20130103	DE200860019939T	20080221
DK2121421 T3	20130304	DK20080706938T	20080221
EP2121421 A1	20091125	EP20080706938	20080221
EP2121421 B1	20121107	EP20080706938	20080221
WO08101507 A1	20080828	WO2008DK50044	20080221

Priority:

DK20070000268 20070221 DK20070000485 20070329 EP20080706938 20080221
WO2008DK50044 20080221

Probable Assignee: REELIGHT APS

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

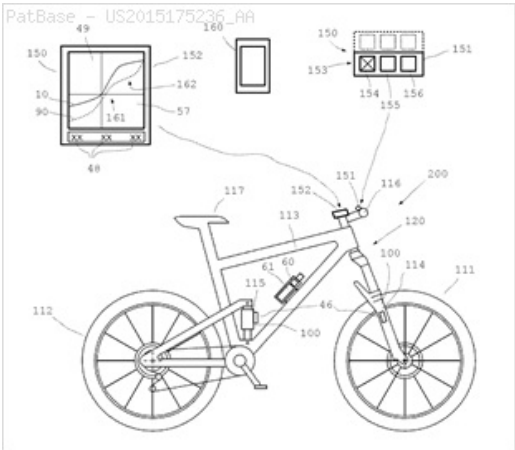
25) Family number: 59564889 (US2015175236A) © PatBase

Title: SUSPENSION CONTROL SYSTEM FOR A **BICYCLE**, **BICYCLE**, AND SUSPENSION CONTROL METHOD

Abstract: A suspension control system and a method for controlling a damper device of a **bicycle** include a damper device and a spring device for sprung damping of a relative motion between a first and a second component of the **bicycle**. The suspension device has a spring unit exhibiting a spring characteristic, and the damper device exhibits a damping characteristic. The spring characteristic of the spring unit is changed under the control of an electrically operated actuator, which in turn is controlled via an electric control device.

Classifications:

International (IPC 8-9): B60G17/015 B60G17/0165 B60G17/048 B60G17/08 B62K25/04 B62K25/08 F16F9/18 F16F9/46 F16F9/53 (Advanced/Invention); F16F9/32 (Advanced/Non-invention)
CPC: B62K25/04 B62K2025/044 F16F9/535 B60G17/0165 B60G17/048 B60G17/08 B60G2202/314 B60G2206/41 B60G2206/42 B60G2300/12 B60G2400/202 B60G2400/25 B60G2500/106 B60G2500/2014 B60G2500/2022 B60G2500/2041 B60G2500/2046 B60G2500/22 B60G2600/1879 B60G2600/26 B60G2600/82 B60G2800/16 B60G2800/182 B62K25/08 F16F9/18 F16F9/3292 F16F2228/063
US: 280/5.515



Family:

Publication number	Publication date	Application number	Application date
DE102013021892 A1	20150625	DE201310021892	20131223
DE502014001979 D1	20161229	DE201450001979T	20141223
EP2886433 A1	20150624	EP20140199968	20141223
EP2886433 B1	20161116	EP20140199968	20141223
US2015175236 AA	20150625	US20140580646	20141223
US10099743 BB	20181016	US20140580646	20141223

Priority:

DE201310021892 20131223 EP20140199968 20141223

Probable Assignee: DT SWISS INC

Assignee(s): (std): DT SWISS AG ; DT SWISS INC

Inventor(s): (std): WENDEL VALENTIN ; WALTHERT MARTIN ; POESEL JUERGEN ; ELSENSOHN GERNOT ; BATTLOGG STEFAN

Agent(s): BSB INTELLECTUAL PROPERTY LAW; GREENBERG LAURENCE A; STEMER WERNER H; LOCHER RALPH E

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

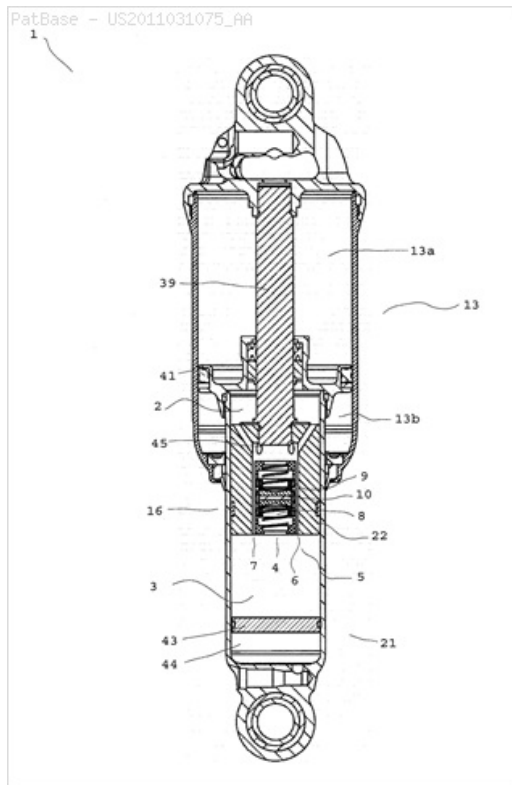
26) Family number: 48170900 (US2011031075A) © PatBase

Title: DAMPING DEVICE FOR A TWO-WHEELED VEHICLE

Abstract: A damping device for a two-wheeled vehicle having a first and a second damper chamber which are coupled to one another through a flow connection. The flow connection includes at least one flow valve provided with a damping channel. A magneto-rheological fluid is provided in the damping channel of the flow valve wherein the flow valve includes at least one magnetic device such that the damping channel of the flow valve can be exposed to a magnetic field of the magnetic device. The flow valve further includes at least one spring device. The magnetic device of the flow valve is provided on a valve piston and the valve piston is received in a deflection chamber to resiliently deflect counter to a spring force of the spring device such that the magnetic field of the magnetic device effective in the damping channel depends on the resilient deflection of the valve piston.

Classifications:

International (IPC 8-9): F16F15/03 F16F9/504 F16F9/512 F16F9/53 (Advanced/Invention)
CPC: F16F9/5126 F16F9/535
European: F16F9/512P F16F9/53M
US: 188/266.2 188/267 188/267.2 188/267.200P 188/282.8

**Family:**

Publication number	Publication date	Application number	Application date
DE102009034296 A1	20110203	DE200910034296	20090721
DE502010004669 D1	20131107	DE201050004669T	20100720
EP2278186 A1	20110126	EP20100007489	20100720
EP2278186 B1	20130911	EP20100007489	20100720
US2011031075 AA	20110210	US20100839675	20100720
US8561764 BB	20131022	US20100839675	20100720

Priority:

DE200910034296 20090721 EP20100007489 20100720

Probable Assignee: DT SWISS INC**Assignee(s):** (std): BATTLOGG STEFAN ; DT SWISS AG ; DT SWISS INC ; ELSENSOHN GERNOT ; POESEL JUERGEN ; WALHERT MARTIN**Inventor(s):** (std): BATTLOGG STEFAN ; WALHERT MARTIN ; EISENSOHN GERNOT ; POESEL JUERGEN ; ELSENSOHN GERNOT ; WALHERT MARTIN**Agent(s):** BSB ANWALTSKANZLEI; SCHUETTE HARTMUT; GREER BURNS AND CRAIN LTD**Designated states:** AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR**27) Family number: 60562918** (DE102014207007A1)

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Title: SCHWINGUNGSERZEUGER Vibrator (Machine translation)

Abstract: Source: DE102014207007A1 [DE] Ein Schwingungserzeuger 100 ist an einem Fahrrad befestigt. Der Schwingungserzeuger 100 umfasst einen Magneten 1, eine Spule 2 und einen Federkoerper 3. Die Spule 2 ist so angeordnet, dass sie dem Magneten 1 zugewandt ist. Der Federkoerper 2 traegt den Magneten 1 schwingbar. Der Elastizitaetsmodul des Federkoerpers 3 ist einstellbar. **Machine translation:** One vibration generator 100 is fixed to a **bicycle**. The vibrator 100 comprises a magnet 1, a coil 2 and a Federkoerper 3. The reel 2 is disposed so as to face the magnet 1. The Federkoerper 2 supports the magnet 1 swingably. The Elastizitaetsmodul of Federkoerpers 3 can be set.

Classifications:**International (IPC 8-9):** H02K35/02 (Advanced/Invention)**CPC:** H02K35/02 H02K7/1876 B62J1/08 B62J1/28 B62J6/06 B62J2099/004

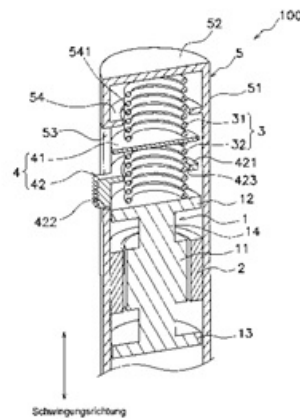


Fig. 1

915

Family:

Publication number	Publication date	Application number	Application date
DE102014207007 A1	20151015	DE201410207007	20140411

Priority:

DE201410207007 20140411

Probable Assignee: SHIMANO INC**Assignee(s):** (std): SHIMANO KK**Assignee(s):** SHIMANO INC**Inventor(s):** (std): FUKUDA MASAHIKO ; HASHIMOTO AKINORI ; NIKI KAZUTAKA**28) Family number: 64048924 (US2016339990A)**

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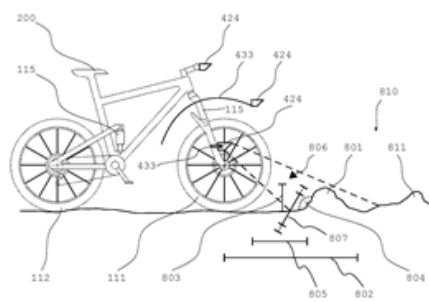
Title: **BICYCLE** COMPONENT, **BICYCLE** AND METHOD

Abstract: A **bicycle** component for an at least partially human-powered **bicycle** has a shock absorber device. The shock absorber device includes a damper device which can be controlled by a control device. A detection device is provided with a sensor device for receiving a signal. The sensor device is arranged on at least one component of the **bicycle** which is pivoted in the case of a steering movement. The detection device is suitable for detecting, and is designed to detect, the difficulty in the terrain as a function of the acquired signal, and is configured to control the damper device as a function of the detected difficulty in the terrain, with the result that a damping property of the damper device can be adjusted by way of a signal of the detection device.

Classifications:

International (IPC 8-9): B62J99/00 B62K25/04 B62K25/06 B62K25/08 B62K25/28 B62K25/30 F16F9/46 F16F9/50 F16F9/53 (Advanced/Invention)

CPC: B62K25/06 B62K25/08 F16F9/50 B62K25/286 B62K25/30 B60G2300/12 B60G2400/823 B62K2207/00 F16F9/46 F16F9/53 B60G17/0165 B60G17/08 B60G2400/202 B60G2400/204 B60G2401/176 B60G2500/10 B60G2500/30 B60G2600/04 B60G2600/202 B62K25/04 B62K2025/044

US: 701/37**Family:**

Publication number	Publication date	Application number	Application date
DE102015107701 A1	20161124	DE201510107701	20150518
DE502016002607 D1	20181227	DE201650002607T	20160518
EP3095681 A1	20161123	EP20160170124	20160518
EP3095681 B1	20181128	EP20160170124	20160518
US2016339990 AA	20161124	US20160158105	20160518

Priority:

DE201510107701 20150518 EP20160170124 20160518

Probable Assignee: DT SWISS AG**Assignee(s):** (std): DT SWISS AG ; DT SWISS INC

Inventor(s): (std): BATTLOGG STEFAN ; WALTHERT MARTIN ; WENDEL VALENTIN
Agent(s): BSB INTELLECTUAL PROPERTY LAW; BSB PATENTANWAELTE SCHUETTE AND ENGELEN PARTNERSCHAFT MBB
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

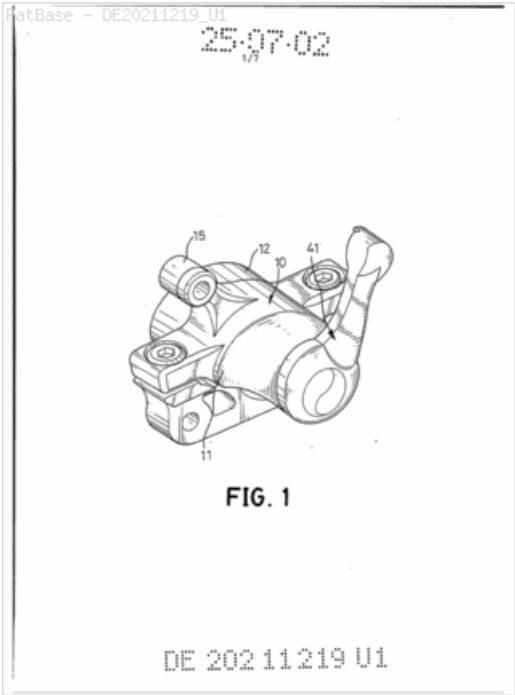
29) Family number: 27892925 (DE20211219U1) © PatBase

Title: Disk brake system for a **bicycle**

Abstract: Source: DE20211219U1 [DE] (Claim 1) 1. Scheibenbremssystem fuer ein Fahrrad, umfassend: einen Koerper (10), der ein Ende als Bewegungsende (11), ein anderes Ende als Verbindungsende (12) und eine in der Mitte des Koerpers (10) vorgesehene Bohrung (13) aufweist, welche durch die beiden Enden des Koerpers (10) geht, wobei der Koerper (10) nahe dem Verbindungsende (12) an seiner unteren Seite mit einer C-foermigen Ausnehmung (20) versehen ist, die eine in der Mitte vorgesehene Quernut (21) und am Rande eines Endes eine groessere Rille (22) aufweist; zwei Bremsbacken (30), die in die Ausnehmung (20) eingesetzt sind, wobei jede Bremsbacke (30) eine mit einem Bremsbelag versehene Basisscheibe (32) umfasst, welche am Rande eine herausragende Nase (321) aufweist, und wobei die Nasen (321) der beiden Basisscheiben (32) beim Zusammenbau in der Quernut (21) des Koerpers (10) angeordnet sind; und einen in dem Koerper (10) angebrachten Antrieb (40), wobei die beiden Bremsbacken (30) von dem Antrieb (40) aufgenommen sind und die beiden Bremsbacken (30) beim Bremsen durch den Antrieb (40) bewegt werden.

Machine translation: (Claim 1) 1. Disk brake system for a **bicycle**, comprehensively: , the one end as movement end (11), another end than connecting end (12) and one in the center of the body (10) intended drilling (13) exhibits a body (10), which through the two ends of the body (10) goes, whereby the body (10) is provided near the connecting end (12) at its lower side with a C-shaped recess (20), which exhibits a transverse groove (21), planned in the center, and at the edge of an end a larger groove (22); two brake shoes (30), which are inserted into the recess (20), whereby each brake shoe (30) covers a basis disk (32), provided with a brake lining, which exhibits an outstanding nose (321) at the edge, and whereby the noses (321) of the two basis disks (32) are arranged when the assembling in the transverse groove (21) of the body (10); and one in the body (10) appropriate drive (40), whereby the two brake shoes (30) are taken up by the drive (40) and the two brake shoes (30) are moved when braking by the drive (40).

Classifications:
International (IPC 8-9): B62L1/00 F16D65/092 F16D65/14 (Advanced/Invention); B62L1/00 F16D65/092 F16D65/14 (Core/Invention)
International (IPC 1-7): B62L5/06
CPC: B62L1/00 F16D65/092 F16D65/095 F16D2121/14 F16D2125/36
European: B62L1/00 F16D65/092 F16D65/095 R16D121/14 R16D125/36



Family:

Publication number	Publication date	Application number	Application date
DE20211219 U1	20030123	DE20022011219U	20020725

Priority:

DE20022011219U 20020725

Probable Assignee: CHEN JUI FIN

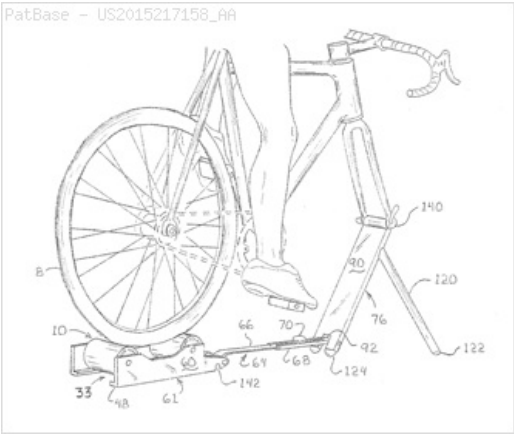
Assignee(s): (std): CHEN JUI FIN ; CHEN SENG HUI

30) Family number: 60003960 (US2015217158A) © PatBase

Title: PORTABLE PROGRESSIVE RESISTANCE EXERCISE DEVICE

Abstract: A collapsible folding training device is provided having a rear frame portion that contains a resistance device. The resistance device uses eddy currents and has a pivoting magnet internally that creates progressively increasing resistance as speed increases. An arm is attached to the rear frame portion that can pivot from a stored position to an in-use position. At the opposite end of the arm, a front frame is attached where it can affix a portion of a driving mechanism, such as a **bicycle**. The front frame supports and stabilizes the driving mechanism. The arm sets the distance between the front frame and the resistance device.

Classifications:
International (IPC 8-9): A63B22/06 A63B69/16 (Advanced/Invention)
CPC: A63B22/0605 A63B69/16 A63B2069/161 A63B2069/163 A63B2069/167 A63B2210/50 A63B21/00076 A63B21/0051



Family:

Publication number	Publication date	Application number	Application date
US2015217158 AA	20150806	US20150612686	20150203
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Priority:

US20140935583P 20140204 US20150612686 20150203

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