

[SS 12] tricycle

Results in PATENW 20.238

[SS 13] oscilat+

Results in PATENW 4.682

[SS 14] 12 and 13

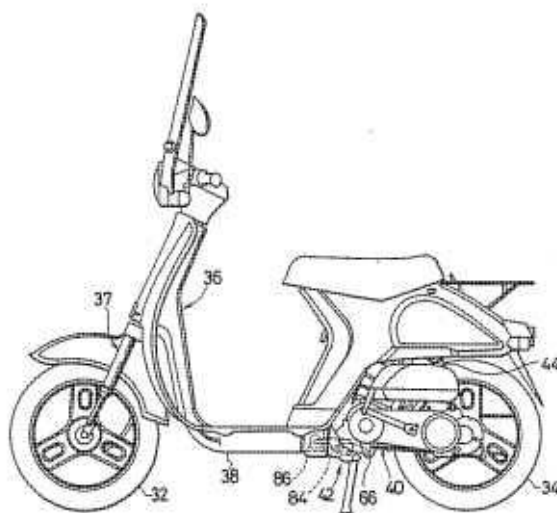
Results in PATENW 3

[SS 15] ..li



1/3 © PATENW / EPO

- PN - [US4696364](#) A 19870929
- PR - JP19840278772 19841226
- AP - US19850782106 19850930
- DT - **
- CT - [US4324306](#) A []; [US4373602](#) A [];
[US4487285](#) A []
- CCI - [B62M7/06](#)
- PA - HONDA MOTOR CO LTD [JP]
- TI - Power-unit support structure of motorcycle
- AB - A power-unit support structure of a motorcycle having a power unit and a frame structure including a tubular member having a hollow rear end portion, comprising a rigid bracket member secured to the tubular member and positioned in the vicinity of the rear end portion of the tubular member, a first pivot assembly positioned between the power unit and the tubular member and pivotally movable about an axis fixed with respect to the frame structure, a second pivot assembly mounted on the power unit and pivotally movable about an axis fixed with respect to the frame structure



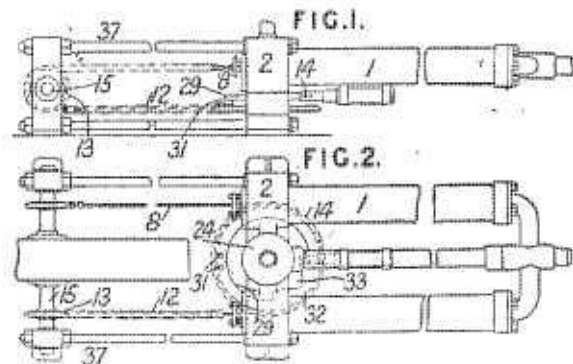
and parallel with the axis of pivotal motion of the first pivot assembly, rigid connecting members providing connection between the first and second pivot assemblies, a damper assembly rigidly connected to the first pivot assembly and elastically engaging the rear end portion of the tubular member. Such a the damper assembly includes an arm member rigidly connected at one end to the first pivot assembly and terminating in conjunction with the rear end portion of the tubular member and an elastic damper element engaging the rear end portion of the tubular member, the arm member being coupled at the other end to the elastic damper element.

2/3 © PATENW / EPO

PN - [US651655](#) A 19000612
 PR - US18990717537 18990520
 AP - US18990717537 18990520
 DT - I
 CUI - [E01C19/27](#)
 PA - DETERDING HENRY F [US]
 TI - **TRICYCLELAND-ROLLER.**

3/3 © PATENW / EPO

PN - [GB190012719](#) A 19010525
 PR - GBT190012719 19000714
 AP - GBD190012719 19000714
 DT - I
 PA - KITCHEN JOHN GEORGE
 AULSEBROOK
 TI - Improvements in Fluid-pressure
 Engines.
 AB - 12,719. Kitchen, J. G. A. July 14.
 Engines with mechanism other
 than simple connecting-rods
 transmitting motion to shaft.-
 Relates to reciprocating fluid-



pressure engines in which the conversion of the reciprocating into rotary motion is effected by ratchet clutch mechanism and chains attached to the piston-rods, the object being to produce a light engine especially intended for motor cars or cycles. Fig. 1 shows a side elevation, and Fig. 2 a plan of a two-cylinder form of the engine. The two single-acting cylinders 1, 1 are connected by a cross-piece 2 forming the valvechest. In this are secured four stay bolts 37, to which are attached bearers supporting bearings for the shaft 15. The piston-rods 8 are connected by a pitch chain 12 passing over two chain-wheels 13, formed with roller or other clutches arranged to turn the shaft in the same direction, and over a guide chain-wheel 14 or its equivalent. The pistonrods, being subjected to tension only, may be of very small diameter. Steam is distributed by an oscillating plug valve at 24 operated by tappets 31 on the chain-wheel 14, which act on a stop on a disc 29. This disc is formed with notches 32, 33 into which a roller is thrust by a spring so as to hold the valve and to ensure that it performs a complete stroke. The engine may be made with a single cylinder, a spring being provided for turning the guide-wheel in one direction ; or, in other cases, compound working may be provided for, or two or more sets of cylinders employed.

[PATENW: SS 15] scooter

Results in PATENW **21.373**

[SS 16] 12 and 15

Results in PATENW **837**

[SS 17] roller and 16

Results in PATENW **177**

[SS 18] brake and 17

Results in PATENW **65**

[SS 19] children and 18

Results in PATENW **12**

[SS 20] ..li



1/12 © PATENW / EPO

PN - [US2015197311](#) A1 20150716

PR - US201514598237 20150116; US201461964858P 20140116

AP - US201514598237 20150116

DT - *; Rep

CT - || R141 (A1)
[US4674762](#) A [];
[US5125677](#) A [];
[US2013030662](#) A1 [];
[US7654545](#) B1 [];
[US8764040](#) B1 [];
[US7887070](#) B2 [];
[US8292315](#) B1 [];
[CN1923602](#) A [];
[FR2490576](#) B1 []

CCI - [B62M1/12](#) ; [B62M1/24](#) ; [B62K5/00](#)

PA - ENTREKIN NATHAN WAYNE [US]

TI - Foot-sliding quad vehicle with tilt-grip steering

AB - A foot-sliding quad vehicle with tilt-grip steering includes two foot platforms secured to a sturdy four-wheeled frame and user-centric handle bars and grips. This breakaway human-powered, multi-gearred craft takes advantage of the natural standing position, allowing back-and-forth thrusts to create forward vehicle propulsion in a stable and balanced environment. Compared with its cycling predecessors, it offers an innovative riding experience, with a higher degree of universality with age- and size-independent

features, such as adjustable feet binders, flexible range-of-motion sliding, and variable handle positions. Whether for recreation, fitness, or transportation, riders will also appreciate customizable elements and exciting new embodiments of the present invention.

2/12 © PATENW / EPO

PN - [AU2009201032](#) A1 20091001
 PR - JP20080063755 20080313
 AP - AU20090201032 20090313
 DT - I
 CCI - [A61L9/16](#) ; [A61L9/205](#) ; [B01D53/007](#) ; [B01J23/30](#) ; [B01J23/6527](#) ; [B01J23/687](#) ; [B01J35/004](#) ; [B01J37/0215](#) ; [C03C17/007](#)
 CCA - [B01J21/063](#) ; [B01D2255/20707](#) ; [B01D2255/20776](#) ; [B01D2255/802](#) ; [B01D2257/708](#) ; [B01D2259/802](#) ; [B01D2259/804](#) ; [C03C2217/477](#) ; [C03C2217/71](#)
 PA - SUMITOMO CHEMICAL CO
 TI - Process for decomposing volatile aromatic compound

3/12 © PATENW / EPO

PN - [CA2658207](#) A1 20090913
 PR - JP20080063755 20080313
 AP - CA20092658207 20090312
 DT - I
 CCI - [A61L9/16](#) ; [A61L9/205](#) ; [B01D53/007](#) ; [B01J23/30](#) ; [B01J23/6527](#) ; [B01J23/687](#) ; [B01J35/004](#) ; [B01J37/0215](#) ; [C03C17/007](#)
 CCA - [B01J21/063](#) ; [B01D2255/20707](#) ; [B01D2255/20776](#) ; [B01D2255/802](#) ; [B01D2257/708](#) ; [B01D2259/802](#) ; [B01D2259/804](#) ; [C03C2217/477](#) ; [C03C2217/71](#)
 PA - SUMITOMO CHEMICAL CO [JP]
 TI - PROCESS FOR DECOMPOSING VOLATILE AROMATIC COMPOUND
 AB - To provide a process for swiftly decomposing a volatile aromatic compound in a vapor phase. The process includes the step of bringing the volatile aromatic compound into contact with a photocatalyst layer under light irradiation. In the process, the photocatalyst layer is formed by coating a photocatalyst dispersion liquid on a substrate. The photocatalyst dispersion liquid is obtained by dispersing titanium oxide photocatalyst particles and tungsten oxide photocatalyst particles in a dispersion medium. The surfaces of the titanium oxide photocatalyst particles are charged in the same polarity as the surfaces of the tungsten oxide photocatalyst particles are.

4/12 © PATENW / EPO

PN - [US2009229967](#) A1 20090917
 PR - JP20080063755 20080313
 AP - US20090402636 20090312
 DT - **
 CT - || R141 (A1)
[US2008119352](#) A1 [];

[US5593737](#) A [];
[US2006020052](#) A1 [];
[US2009032390](#) A1 [];
[US6221259](#) B1 [];
[US6365007](#) B1 [];
[US6726891](#) B2 [];
[US2009093361](#) A1 [];
[US7521133](#) B2 [];
[US7378371](#) B2 [];
[US2010126845](#) A1 [];
[US5126111](#) A [];
[US6409928](#) B1 [];
[US2005129591](#) A1 [];
[US2006124442](#) A1 [];
[US6585863](#) B2 [];
[US7081428](#) B1 [];
[US2010190643](#) A1 [];
[US5658841](#) A [];
[US2005175788](#) A1 [];
[US7255831](#) B2 [];
[US5972226](#) A [];
[US6135838](#) A [];
[US6136203](#) A [];
[US2009246091](#) A1 [];
[US5853866](#) A [];
[US6165619](#) A [];
[US2009305879](#) A1 [];
[US7858552](#) B2 []

- CTNP - || R141 (A1)
 [] Song et al, "Efficient degradation of organic pollutant with WO_x modified nano TiO₂ under visible irradiation," J. of Photochem. and Photobio. A: Chemistry 181 (2006), pp. 421-428
- CCI - [A61L9/16](#) ; [A61L9/205](#) ; [B01D53/007](#) ; [B01J23/30](#) ; [B01J23/6527](#) ; [B01J23/687](#) ; [B01J35/004](#) ; [B01J37/0215](#) ; [C03C17/007](#)
- CCA - [B01J21/063](#) ; [B01D2255/20707](#) ; [B01D2255/20776](#) ; [B01D2255/802](#) ; [B01D2257/708](#) ; [B01D2259/802](#) ; [B01D2259/804](#) ; [C03C2217/477](#) ; [C03C2217/71](#)
- PA - SUMITOMO CHEMICAL CO [JP]
- TI - PROCESS FOR DECOMPOSING VOLATILE AROMATIC COMPOUND
- AB - To provide a process for swiftly decomposing a volatile aromatic compound in a vapor phase. The process includes the step of bringing the volatile aromatic compound into contact with a photocatalyst layer under light irradiation. In the process, the photocatalyst layer is formed by coating a photocatalyst dispersion liquid on a substrate. The photocatalyst dispersion liquid is obtained by dispersing titanium oxide photocatalyst particles and tungsten oxide photocatalyst particles in a dispersion medium. The surfaces of the titanium oxide photocatalyst particles are charged in the same polarity as the surfaces of the tungsten oxide photocatalyst particles are.

5/12 © PATENW / EPO

- PN - [EP2100626](#) A1 20090916
- PR - JP20080063755 20080313
- AP - EP20090250693 20090313
- DT - *; Rep
- CT - || STSE (A1)
[EP2072119](#) A1 20090624 [E] (SUMITOMO CHEMICAL CO [JP])
[E] 1-14
* the whole document *;
[US5853866](#) A 19981229 [X] (WATANABE TOSHIYA [JP], et al)
[X] 1-14
* column 9, line 58 - column 10, line 14 *
* column 72, line 43 - line 45 *
* Claim 1-2: Additive soda glass, silica; column 1, paragraph 2 *;
[US2007232487](#) A1 20071004 [X] (NAGANUMA YASUO [JP], et al)
[X] 1-14
* paragraphs [0010] , [0040]; claim 2 *;
[US2002187338](#) A1 20021212 [X] (TANAKA JUN [JP], et al)
[X] 1-14
* paragraphs [0112] - [0115] *;
[EP1857179](#) A1 20071121 [X] (NIPPON CATALYTIC CHEM IND [JP])
[X] 1-14
* claims 1-3,14 *
* paragraphs [0037] , [0038] *
- CCI - [A61L9/16](#) ; [A61L9/205](#) ; [B01D53/007](#) ; [B01J23/30](#) ; [B01J23/6527](#) ; [B01J23/687](#) ;
[B01J35/004](#) ; [B01J37/0215](#) ; [C03C17/007](#)
- CCA - [B01J21/063](#) ; [B01D2255/20707](#) ; [B01D2255/20776](#) ; [B01D2255/802](#) ; [B01D2257/708](#) ;
[B01D2259/802](#) ; [B01D2259/804](#) ; [C03C2217/477](#) ; [C03C2217/71](#)
- PA - SUMITOMO CHEMICAL CO [JP]
- TI - Process for decomposing volatile aromatic compound
- AB - A process for decomposing a volatile aromatic compound in the vapor phase, which process comprises: a step of bringing the volatile aromatic compound into contact, under light irradiation, with a photocatalyst layer formed by applying a photocatalyst dispersion liquid to a substrate, wherein the photocatalyst dispersion liquid comprises titanium oxide photocatalyst particles and tungsten oxide photocatalyst particles dispersed in a dispersion medium, and the surfaces of the titanium oxide photocatalyst particles are charged in the same polarity as the surfaces of the tungsten oxide photocatalyst particles.

6/12 © PATENW / EPO

- PN - [AU2008229917](#) A1 20090423
- PR - JP20080161429 20080620; JP20070324474 20071217; JP20070263007 20071009; JP20080051812 20080303
- AP - AU20080229917 20081007
- DT - I

CCI - [B01J35/004](#) ; [B01D53/8687](#) ; [B01D53/885](#) ; [B01J21/063](#) ; [B01J23/30](#) ; [B01J23/6527](#) ;
[B01J23/888](#) ; [B01J35/023](#) ; [B01J35/1019](#) ; [B01J37/0072](#) ; [B01J37/0219](#) ; [B01J37/06](#)

CCA - [B01D2255/10](#) ; [B01D2255/20707](#) ; [B01D2255/20776](#) ; [B01D2255/802](#) ;
[B01D2255/9202](#) ; [B01D2255/9207](#) ; [B01D2257/306](#) ; [B01D2257/406](#) ; [B01D2257/90](#) ;
[B01D2257/91](#) ; [B01D2259/802](#) ; [B01D2259/804](#)

PA - SUMITOMO CHEMICAL CO

TI - Photocatalyst dispersion liquid and process for producing the same

7/12 © PATENW / EPO

PN - [CA2640865](#) A1 20090409

PR - JP20080051812 20080303; JP20070263007 20071009; JP20070324474
20071217; JP20080161429 20080620

AP - CA20082640865 20081009

DT - I

CCI - [B01J35/004](#) ; [B01D53/8687](#) ; [B01D53/885](#) ; [B01J21/063](#) ; [B01J23/30](#) ; [B01J23/6527](#) ;
[B01J23/888](#) ; [B01J35/023](#) ; [B01J35/1019](#) ; [B01J37/0072](#) ; [B01J37/0219](#) ; [B01J37/06](#)

CCA - [B01D2255/10](#) ; [B01D2255/20707](#) ; [B01D2255/20776](#) ; [B01D2255/802](#) ;
[B01D2255/9202](#) ; [B01D2255/9207](#) ; [B01D2257/306](#) ; [B01D2257/406](#) ; [B01D2257/90](#) ;
[B01D2257/91](#) ; [B01D2259/802](#) ; [B01D2259/804](#)

PA - SUMITOMO CHEMICAL CO [JP]

TI - PHOTOCATALYST DISPERSION LIQUID AND PROCESS FOR PRODUCING THE SAME

AB - To provide a photocatalyst dispersion liquid obtained by dispersing titanium oxide photocatalyst particles and tungsten oxide photocatalyst particles in a dispersion medium, where the surfaces of both titanium oxide photocatalyst particles and tungsten oxide photocatalyst particles are charged positively or negatively. In the photocatalyst dispersion liquid, the titanium oxide photocatalyst particles and the tungsten oxide photocatalyst particles, which are dispersed in the dispersion medium, are not aggregated easily, and a solid-liquid separation is not generated.

8/12 © PATENW / EPO

PN - [US2009093361](#) A1 20090409

PR - JP20070263007 20071009; JP20070324474 20071217; JP20080051812
20080303; JP20080161429 20080620

AP - US20080246944 20081007

DT - *; Rep

CT - || R141 (A1)
[US2006020052](#) A1 [];
[US2008119352](#) A1 [];
[US7378371](#) B2 [];
[US7255831](#) B2 [];
[US2010199887](#) A1 [];
[US6121191](#) A [];
[US2009229967](#) A1 [];
[US5837635](#) A [];
[US5981426](#) A [];

[US5853866](#) A [];
[US6165619](#) A [];
[US2009305879](#) A1 []

CCI - [B01J37/06](#) ; [B01J37/0219](#) ; [B01J21/063](#) ; [B01J23/30](#) ; [B01J23/6527](#) ; [B01D53/8687](#) ;
[B01D53/885](#) ; [B01J23/888](#) ; [B01J35/004](#) ; [B01J35/023](#) ; [B01J35/1019](#) ; [B01J37/0072](#)

CCA - [B01D2255/10](#) ; [B01D2255/20707](#) ; [B01D2255/20776](#) ; [B01D2255/802](#) ;
[B01D2255/9202](#) ; [B01D2255/9207](#) ; [B01D2257/306](#) ; [B01D2257/406](#) ; [B01D2257/90](#) ;
[B01D2257/91](#) ; [B01D2259/802](#) ; [B01D2259/804](#)

PA - SUMITOMO CHEMICAL CO [JP]

TI - PHOTOCATALYST DISPERSION LIQUID AND PROCESS FOR PRODUCING THE SAME

AB - To provide a photocatalyst dispersion liquid obtained by dispersing titanium oxide photocatalyst particles and tungsten oxide photocatalyst particles in a dispersion medium, where the surfaces of both titanium oxide photocatalyst particles and tungsten oxide photocatalyst particles are charged positively or negatively. In the photocatalyst dispersion liquid, the titanium oxide photocatalyst particles and the tungsten oxide photocatalyst particles, which are dispersed in the dispersion medium, are not aggregated easily, and a solid-liquid separation is not generated.

9/12 © PATENW / EPO

PN - [EP2072119](#) A1 20090624

PR - JP20070263007 20071009; JP20070324474 20071217; JP20080051812 20080303; JP20080161429 20080620

AP - EP20080253288 20081009

DT - **

CT - || STSE (A1)
[JP2006305527](#) A 20061109 [X] (ALTIS KK, et al)
 [X] 1-17
 * paragraphs [0035] , [0034] , [0035]; example 1; claim - *;
[JP2003096433](#) A 20030403 [X] (SUMITOMO CHEMICAL CO)
 [X] 1-17
 * paragraph [0018]; example 3; claim - *;
[EP1199103](#) A2 20020424 [X] (SUMITOMO CHEMICAL CO [JP])
 [X] 1-17
 * paragraphs [0025] - [0029]; example 3; claim - *;
[EP1279643](#) A2 20030129 [X] (SUMITOMO CHEMICAL CO [JP])
 [X] 1-17
 * paragraphs [0065] , [0029] - [0031] - [0037]; examples 1-3; claim - *;
[JP2005231935](#) A 20050902 [DX] (TAKI CHEMICAL)
 [DX] 1-17
 * example -; claim - *;
[EP0681992](#) A1 19951115 [A] (RHONE POULENC CHIMIE [FR])
 [A]
 * the whole document *

CCI - [B01J37/06](#) ; [B01J37/0219](#) ; [B01J21/063](#) ; [B01J23/30](#) ; [B01J23/6527](#) ; [B01D53/8687](#) ;
[B01D53/885](#) ; [B01J23/888](#) ; [B01J35/004](#) ; [B01J35/023](#) ; [B01J35/1019](#) ; [B01J37/0072](#)

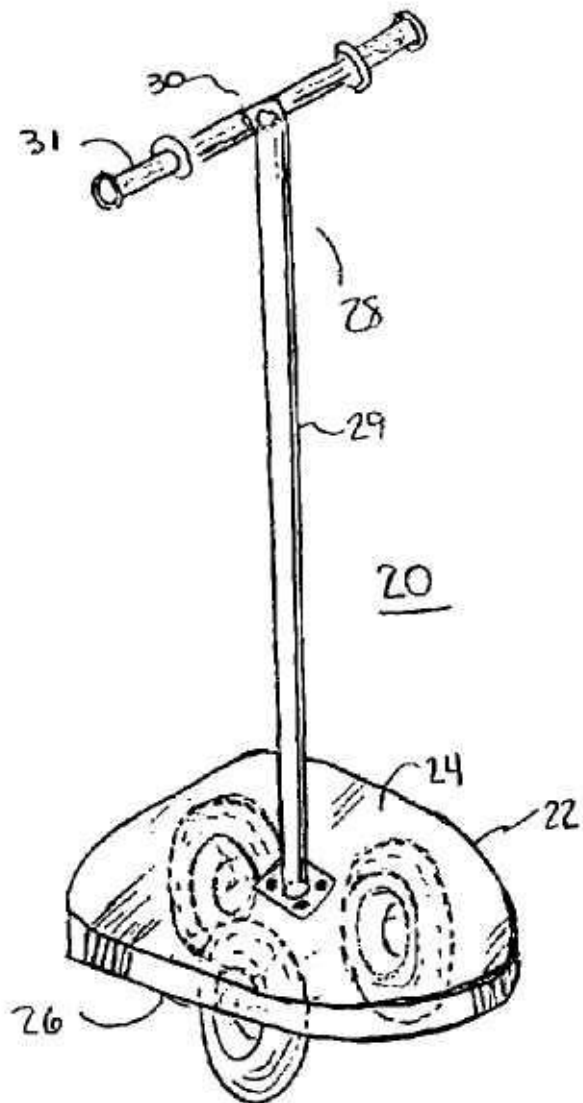
CCA - [B01D2255/10](#) ; [B01D2255/20707](#) ; [B01D2255/20776](#) ; [B01D2255/802](#) ;

[B01D2255/9202](#) ; [B01D2255/9207](#) ; [B01D2257/306](#) ; [B01D2257/406](#) ; [B01D2257/90](#) ;
[B01D2257/91](#) ; [B01D2259/802](#) ; [B01D2259/804](#)

- PA - SUMITOMO CHEMICAL CO [JP]
 TI - Photocatalyst dispersion liquid and process for producing the same
 AB - A photocatalyst dispersion liquid comprises a dispersion of titanium oxide photocatalyst particles and tungsten oxide photocatalyst particles in a dispersion medium; the surfaces of the titanium oxide photocatalyst particles and the tungsten oxide photocatalyst particles have the same charge polarity, thus the titanium oxide photocatalyst particles and the tungsten oxide photocatalyst particles do not aggregate easily and there is no solid-liquid separation.

10/12 © PATENW / EPO

- PN - [US7226062](#) B1 20070605
 PR - US20030693675 20031024
 AP - US20030693675 20031024
 DT - *; Rep
 CT - || STSE (B1)
[US210435](#) A 18781203 []
[US887812](#) A 19080519 [] (JOHNSON FRANK [US])
[US1056357](#) A 19130318 [] (MURDOCK LUKE S [US])
[US1128810](#) A 19150216 [] (MARTIN JOSEPH B [US])
[US1289361](#) A 19181231 [] (BASTMAN GEORGE F [US])
[US1387091](#) A 19210809 [] (SAID WOOLLEY)
[US1467453](#) A 19230911 [] (EDMOND REMACLE)
[USD175262S](#) S 00000000 []
[US2726845](#) A 19551213 [] (HYSLOP JR FRANCIS E, et al)
[US2825575](#) A 19580304 [] (MICKELS DEAN A)
[US3109667](#) A 19631105 [] (WOLNER HERBERT E)
[US3399904](#) A 19680903 [] (SCHINKE JAMES W)
[US3438642](#) A 19690415 [] (PULEO E J, et al)
[USD214575S](#) S 00000000 []
[US3567242](#) A 19710302 [] (LARRY F MILLER)
[US4073500](#) A 19780214 [] (CAMPEAU LEO)
[US4133548](#) A 19790109 []



	] (SMITH GERALD E) US4279043 A 19810721 [] (SAUNDERS BOBBIE L) US4526390 A 19850702 [] (SKOLNIK ARTHUR M) US4732400 A 19880322 [] (SANTINI LUIS A [US]) US4776604 A 19881011 [] (VALDEZ ELVA R [US], et al) USD302063S S 00000000 [] US4941670 A 19900717 [] (PARR DAVID A [AU]) US5029887 A 19910709 [] (GRUETZNER UTE M [DE], et al) US5046747 A 19910910 [] (NIELSEN JR ANKER J [US]) US5062630 A 19911105 [] (ONTARIO LTD 859545 [CA]) US5165711 A 19921124 [] (TSAI TUNG TA [TW]) US6158453 A 20001212 [] (NASCO MIKE [US]) US6511083 B1 20030128 [] (TSAI TAI-YUAN [TW]) US6561534 B2 20030513 [] (GU HONG-JIUN [TW], et al)
CCI	- A63C17/01 ; A63C17/014 ; A63C17/265 ; A63C17/267 ; A63C17/28
CCA	- A63C5/03 ; A63C2203/06
TI	- Recreational wheelie vehicle
AB	- An amusement-type vehicle is provided particularly for doing so-called wheelies having a short wheel base upon a platform-type base with at least two side by side wheels forwardly and one wheel rearwardly upon which wheelies are performed and having a central handle by which the vehicle may be controlled.

PN - [WO2008056869](#) A1 20080515

PR - KR20060110246
20061109; KR20060117309
20061126; KR20070056661
20070611; KR20070069371
20070710

AP - WO2007KR03698 20070801

DT - *; Rep

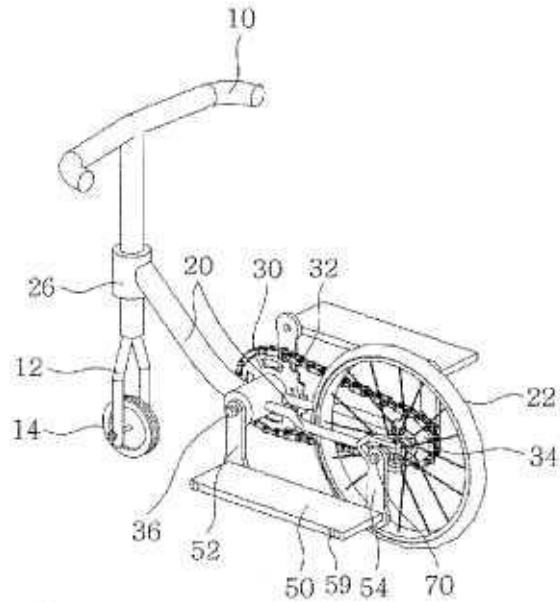
CT - |KR| ISR (A1)
[KR20050029660](#) A 20050328
[A] (KIM KI HWAN [KR]);
[KR20040096270](#) A 20041116
[A] (AMP MECHANICS CO LTD);
[KR20050053564](#) A 20050608
[A] (CHOI JIN MAN [KR]);
[JPS63108887U](#) U 19880713 [A]

CCI - [B62M1/26](#) ; [B62K3/002](#)

PA - MIN KYOUNG MI [KR]; KIM HAN-SOO [KR]

TI - STANDUP TYPE SMALL BICYCLE
FOR EXERCISE

AB - A standup type small bicycle for exercise is disclosed, which comprises a plate pedal which is formed in a plate shape, one side of the plate pedal being connected with a driving shaft pedal arm engaged at both sides of the driving shaft with a pedal shaft, the other side of the plate pedal being connected with a driven shaft pedal arm engaged at a hub unit of the rear wheel with a pedal shaft. In the above bicycle, a saddle is removed from a conventional bicycle, and a plate pedal is longitudinally formed so that a pedal connected with a driving sprocket wheel is extended to a hub shaft of a rear wheel as if a user steps on a plate pedal with whole bodies in a posture of riding a kick board for thereby maximizing an exercise effect, and kids can easily use the bicycle.



12/12 © PATENW / EPO

PN - [GB2410727](#) A 20050810

PR - NZ20040530919 20040203

AP - GB20040024603 20041108

DT - *

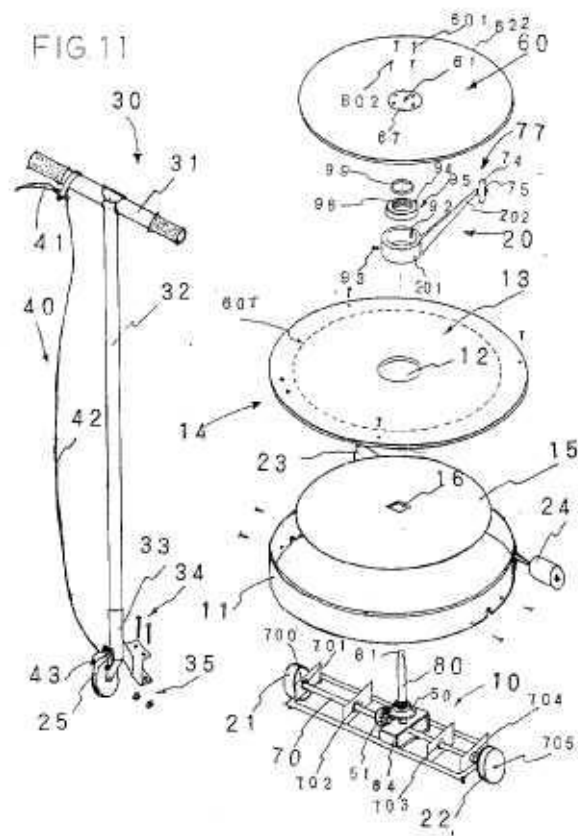
CT - [GB1337185](#) A []; [GB2004190](#) A [];
[CA2436103](#) A1 [];
[US2004036247](#) A1 []

CCI - [A63B22/14](#) ; [A63B22/20](#) ;
[B62K3/002](#)

PA - LEESHENG-HUNG [TW]

TI - Human powered vehicle or
exercise machine

AB - The vehicle or machine has a footboard 60 which can be rotated and tilted by an operator on a resisting board 13, by twisting about the waist. The footboard, mounted on a ball and socket joint 81, acts to rotate an arm 20 about a vertical axis, the arm being coupled by bevel gears 50, 51 to driven wheels 21, 22 for the vehicle. The arm 20 carries one or more wheels at its outer end for contact by the footboard 60. Two footboards in tandem can be provided. For an exercising machine, the footboard is on a sliding treadmill surface; the rotary motion is transmitted to a sensor and shown on a digital screen.



[SS 20] ..v

[PATENW: SS 20] 12 and child+

Results in PATENW 2.741

[SS 21] bearing and 20

Results in PATENW **690**

[SS 22] 21 and walk+

Results in PATENW **146**

[SS 23] with 1w out 1w pedals

Results in PATENW **0**

[SS 24] out 1w pedals

Results in PATENW **23**

[SS 25] 22 and 24

Results in PATENW **0**

[SS 26]