

Search history

- Search 1: [SP]: A foldable child's tricycle, having an unfolded state and a folded state, the foldable child's tricycle comprising a body frame, a front fork positioned in the front of the body frame, a front wheel rotatably arranged at a lower part of the front fork, two rear wheel brackets arranged in the back of the body frame, and rear wheels respectively rotatably arranged on the rear wheel brackets; characterized in that the body frame includes a head tube arranged above the front fork, an upper connecting rod assembly rotatably connected to the head tube, a lower connecting rod assembly rotatably connected to the head tube, a push rod assembly connected in the back of the upper connecting rod assembly and the lower connecting rod assembly, and a supporting rod rotatably connected between the upper connecting rod assembly and the lower connecting rod assembly and further located in front of the push rod assembly; the upper connecting rod assembly, the head tube, the lower connecting rod assembly, and the supporting rod form a four bar linkage; the push rod assembly is rotatably connected to the upper connecting rod assembly, and is fixed to or separated from the lower connecting rod assembly via a locking device; restricting structures are respectively arranged between the head tube and the upper connecting rod assembly, and between the head tube and the lower connecting rod assembly; after the child's tricycle is folded, the push rod assembly, the upper connecting rod assembly, the head tube, the lower connecting rod assembly and the supporting rod assembly draw close to each other. (Results 0)
- Search 2: [SP]: A foldable child's tricycle, having an unfolded state and a folded state, the foldable child's tricycle comprising a body frame, a front fork positioned in the front of the body frame, a front wheel rotatably arranged at a lower part of the front fork, two rear wheel brackets arranged in the back of the body frame, and rear wheels respectively rotatably arranged on the rear wheel brackets; characterized in that the body frame includes a head tube arranged above the front fork, an upper connecting rod assembly rotatably connected to the head tube, a lower connecting rod assembly rotatably connected to the head tube, a push rod assembly connected in the back of the upper connecting rod assembly and the lower connecting rod assembly, and a supporting rod rotatably connected between the upper connecting rod assembly and the lower connecting rod assembly and further located in front of the push rod assembly; the upper connecting rod assembly, the head tube, the lower connecting rod assembly, and the supporting rod form a four bar linkage; the push rod assembly is rotatably connected to the upper connecting rod assembly, and is fixed to or separated from the lower connecting rod assembly via a locking device; restricting structures are respectively arranged between the head tube and the upper connecting rod assembly, and between the head tube and the lower connecting rod assembly; after the child's tricycle is folded, the push rod assembly, the upper connecting rod assembly, the head tube, the lower connecting rod assembly and the supporting rod assembly draw close to each other. (Results 0)
- Search 3: SFT=(fold* and tricycle and child*) and PD<20160119 and CPC=(B62K) (Results 195)
- Search 4: SFT=(fold* and tricycle and child* and small* and volumen) and PD<20160119 and CPC=(B62K) (Results 5)
- Search 5: (3) AND IPC=(B62 OR B60) (Results 193)

1) Family number: 58285006 (US2015014957A)

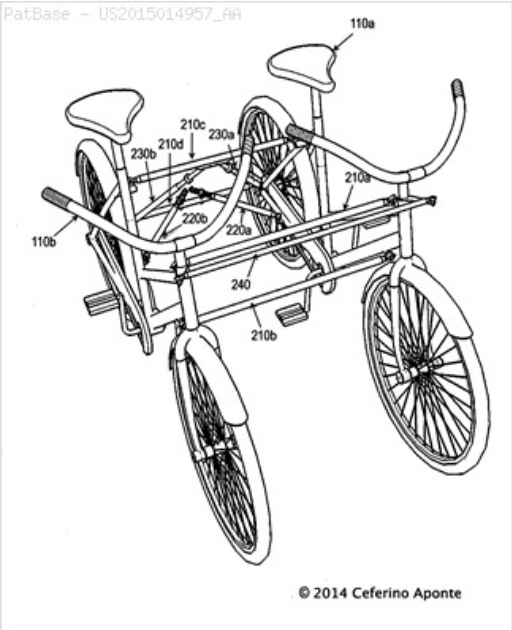
PatBase

Title:	SIDE-BY-SIDE FLEXIBLE TWIN BICYCLE							
Priority:	US20140450268 20140803		WO2015US43474 20150803		US20160155736 20160516			
Family:	Publication number		Publication date		Application number		Application date	
	BR112017002294 A2		20180116		BR20171102294		20150803	
	CA2957112 AA		20170203		CA20152957112		20150803	
	EP3174781 A1		20170607		EP20150830669		20150803	
	EP3174781 A4		20180328		EP20150830669		20150803	
	MX2017001595 A1		20170828		MX20170001595		20150803	
	US2015014957 AA		20150115		US20140450268		20140803	
	US2016257368 AA		20160908		US20160155736		20160516	
	US9340250 BB		20160517		US20140450268		20140803	
	US9944343 BB		20180417		US20160155736		20160516	
	WO16022493 A1		20160211		WO2015US43474		20150803	
Probable Assignee:	CEFERINO APONTE RIVERA							
Assignee(s):(std):	APONTE RIVERA CEFERINO ; CEFERINO APONTE RIVERA							
Inventor(s):(std):	APONTE RIVERA CEFERINO ; CEFERINO APONTE RIVERA							
Agent(s):	BRION RAFFOUL; BALDER IP LAW SL; EUGENIO J; VICTOR; FERRAIUOLI LLC; EUGENIO J TORRES OYOLA							
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							
International class (IPC 8-9):	B62K13/00 B62K13/02 B62K13/06 B62K3/14 (Advanced/Invention); B62K3/12 (Advanced/Non-invention)							
International class (IPC 1-7):	B62K13/06							
CPC:	B62K2003/125 B62K13/06 B62K5/01 B62K5/08 B62K5/10 B62K3/12							
US class:	1/1 280/209							
Classification Explorer								
Cited documents:	US7770682 BB, US6022036 A, US5511809 A, US4290620 A, US4227589 A, US3938827 A, US3902738 A, US3865401 A, US3836175 A, US3768834 A, US2694582 A, US2014070513 AA, US2003127821 AA, CN2567129 Y,							

Forward Citations: USD759572, US9394027, US2015042063,

Abstract:

Various embodiments of a side-by-side flexible twin bicycle are disclosed. In at least one embodiment, the side-by-side flexible twin bicycle includes two bicycles joined together side-by-side by means of a plurality of interconnecting pivoted link bars. One or more driver riders may simultaneously or independently operate said side-by-side flexible twin bicycle. In at least one embodiment, the side-by-side flexible twin bicycle may be configured employing different size bicycles, in-line multi-rider tandem bicycles, recumbent bicycles, mountain bicycles, and motorcycles of various types. These embodiments provide the vertical stability of a four-wheel vehicle while retaining the ability to lean into turns and ride over irregular surfaces affording for each of the riders the handling, ride and feel similar to that of a single conventional bicycle.



2) Family number: 58642020 (WO15028903A1) © PatBase

Title: A TRICYCLE STROLLER POUSETTE TRICYCLE

Priority: US20130870932P 20130828

Family:

Publication number	Publication date	Application number	Application date
WO15028903 A1	20150305	WO2014IB63269	20140721

Probable Assignee: SMART TRIKE MNF PTE LTD

Assignee(s):(std): SMART TRIKE MNF PTE LTD

Inventor(s):(std): BARON YORAM

Agent(s): WELLER HAYIM

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

International class (IPC 8-9): B62B7/12 B62K9/02 (Advanced/Invention); B62K15/00 (Advanced/Non-invention)

CPC: B62B7/12 B62B2206/006 B62K9/02 B62K2015/003 B62K13/00

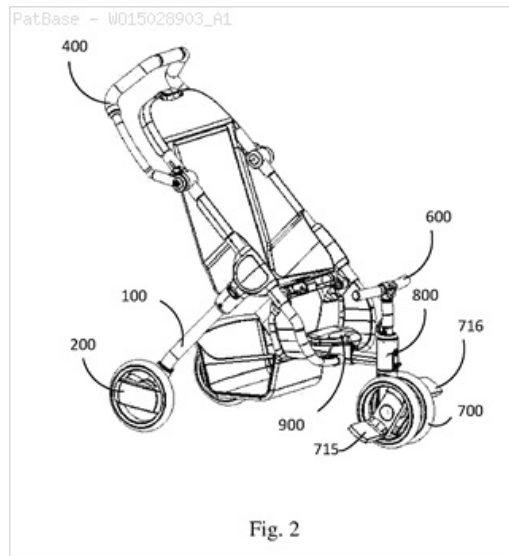
[Classification Explorer](#)

Cited documents: WO12043435 A1, WO10128633 A1, WO08102023 A1, US3485507 A, US2013038030 AA,

Forward Citations: WO18051352,

Abstract:

The present invention relates to a vehicle operable between a stroller mode for carrying an occupant and a tricycle mode for permitting the occupant to steer the vehicle comprising: (a) a frame capable of supporting the weight of an occupant; (b) a pair of rear wheels rotatable connected to the frame; (c) a reclinable chair capable of reclining to an angle greater than 120 degrees between the base of chair and the back support of the chair; (d) at least one front wheel capable of being configured as a swivel wheel in the stroller mode and capable of being pedaled by the occupant in the tricycle mode; (e) a pair of pedals, each pedal configured to rotate the at least one front wheel; (f) a parental handle for pushing the vehicle from behind; and (g) a detachable handlebar, configured to enable the vehicle occupant to steer the at least one front wheel when in the tricycle mode.



3) Family number: 32820021 (DE102005019235B3)

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Title: TANDEM BICYCLE FOR CYCLING HAS PEDAL UNIT IS COUPLED ON EACH SIDE TO CRANK END BY DOUBLE PEDAL BAR

Priority: DE200510019235 20050426

Family:	Publication number	Publication date	Application number	Application date
	DE102005019235 B3	20060413	DE200510019235	20050426

Probable Assignee: BROEMME JUERGEN

Assignee(s):(std): BROEMME JUERGEN

Inventor(s):(std): BROEMME JUERGEN

International class (IPC 8-9): B62K3/12 B62M1/36 B62M3/08 (Advanced/Invention)

CPC: B62K3/12 B62M1/36 B62M3/08

European class: B62K3/12 B62M1/36 B62M3/08

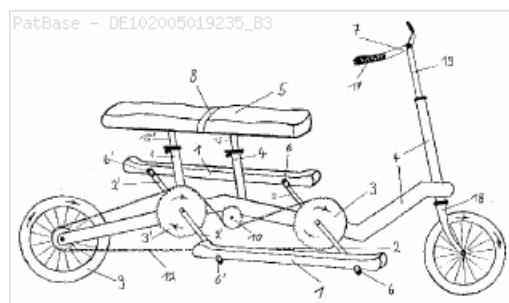
[Classification Explorer](#)

Cited documents: US3191965 A, GB480376 A, FR823760 A,

Forward Citations: US9139252, US2014265218, DE102007051457,

Abstract:

The tandem has front and rear wheels (9) and front and rear pedal units (2, 2') each with its own chain wheel fitting (3, 3') for chain drive of the rear wheel. The pedal units are connected. The double seat bank (5) is fixed to the frame (4). The pedal units are coupled to the crank end on either side by double pedal bar (1).



4) Family number: 53469031 (DE102011054270A1)

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Title: BALANCE BICYCLE HAS STEERABLE FRONT WHEELS AND SEAT SPACE FOR PLACING LEGS OF REPULSIVE LOCOMOTIVE DRIVER, WHICH IS LOCATED ON BOTH SIDES AT UNDERNEATH OF SEAT

Priority: DE201110054270 20111007

Family:	Publication number	Publication date	Application number	Application date
	DE102011054270 A1	20130411	DE201110054270	20111007

Probable Assignee: LEPOUSE BERND

Assignee(s):(std): LEPOUSE BERND

Assignee(s): LEPOUSE

Inventor(s):(std): LEPOUSE BERND
International class (IPC 8-9): B62K9/02 (Advanced/Invention)
CPC: B62K9/02

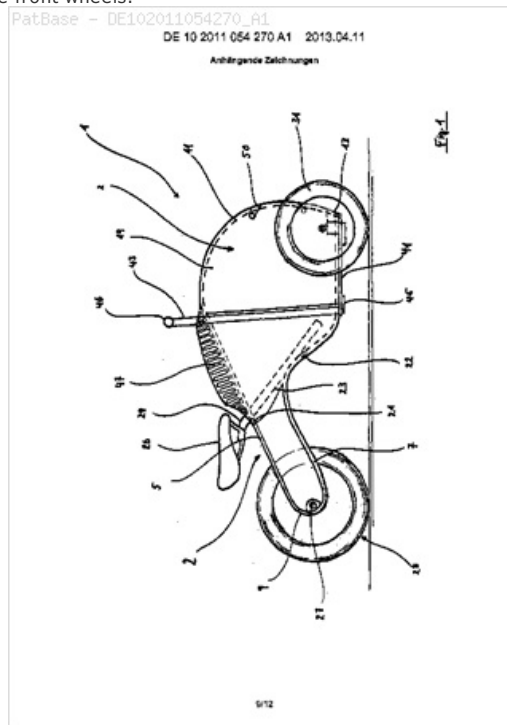
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Cited documents: WO09090683 A1, US580587 A, US3333862 A, US2009058036 AA, US1547372 A, US0000580587, DE9417586 U1, DE8003783 U, DE7833431 U, DE29616462 U1, DE29609401 U1, DE20219659 U1, DE19856409 A1,

Forward Citations: WO18041889,

Abstract:

The balance bicycle (1) has a seat (26) and a seat space which is located on both sides at underneath of the seat. The seat space is provided for placing legs of repulsive locomotive driver. The steerable front wheels (31) are provided according to double-pivot steering principle. The stub axles having steering arms, are connected with the front wheels.



5) Family number: 53423039 (US2013081892A)

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Title: HUMAN-RECHARGEABLE ELECTRIC VEHICLE
Priority: US20110540633P 20110929 US20120633078 20121001 US20130870229P 20130826
US20140300883 20140610 WO2015US34839 20150609 US20160361875 20161128
Family:

Publication number	Publication date	Application number	Application date
EP3154815 A1	20170419	EP20150806472	20150609
EP3154815 A4	20170419	EP20150806472	20150609
US2013081892 AA	20130404	US20120633078	20121001
US2014353055 AA	20141204	US20140300883	20140610
US2017158061 AA	20170608	US20160361875	20161128
US9505310 BB	20161129	US20140300883	20140610
US9956880 BB	20180501	US20160361875	20161128
WO15191536 A1	20151217	WO2015US34839	20150609

Probable Assignee: RAHTMOBILE LLC
Assignee(s):(std): BOCKIN RUSSELL ; CASTELLOTTI STEVE ; KRONFELD RICHARD ; RAHTMOBILE LLC ; SMITH LYON
Inventor(s):(std): BOCKIN RUSSELL ; CASTELLOTTI STEVE ; KRONFELD RICHARD ; SMITH LYON ; BROCKIN RUSSELL
Agent(s): COLLINS JOHN DAVID; ERIC; THOMAS; SCHWEGMAN LUNDBERG AND WOESSNER PA; MADDEN ROBERT B 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 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 NZ 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
International class (IPC 8-9): B60L11/00 B60L11/16 B60L11/18 B60L15/20 B60L3/00 B60L7/12 B60L8/00 B62D61/06 B62K5/00 B62K5/08 B62M6/40 B62M6/60 B62M6/85 B62M6/90 (Advanced/Invention)
CPC: B62M6/40 B60L1/003 B60L3/06 B60L3/12 B60L7/14 B60L2210/10 B60L2210/30 B60L2210/40 B60L2220/16 B60L2240/421 B60L2250/12 B60L2250/24 B60L2250/26 Y02T10/6217 Y02T10/7044 Y02T10/7066 Y02T10/7077 Y02T10/7216 Y02T10/7241 Y02T90/127 B60L3/0046 B60L7/12 B60L8/003 B60L15/2009 B60L2200/12 B60L2220/44 B60L2240/12 B60L2240/423 B60L2240/425 B60L2240/461 B60L2240/622

B60L2250/10 B60L2250/16 B60L2270/145 Y02T10/645 Y02T10/7005 Y02T10/7072 Y02T10/7083 Y02T10/72 Y02T10/7275 Y02T10/7291 Y02T90/14 Y02T90/16 Y02T90/162 B62M6/90 B60L2200/22 B62M6/85 B62K5/00 B62K5/08 B62K2005/001 B62M6/60 B60L50/20 B60L50/30 B60L50/52 B60L53/14 B60L11/007 B60L3/0061 B60L50/62 B60L50/64 B60L58/12 B60L58/20

US class: 180/210 180/65.31 701/22

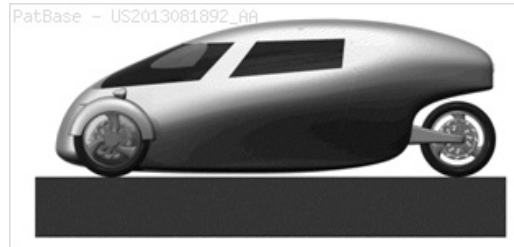
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Cited documents: WO15191536 A1, WO10052236 A1, US9505310 BB, US8276935 BB, US8256554 BB, US7690453 BB, US7661501 BA, US7354055 BB, US7017685 BB, US6450922 BA, US6445080 BA, US6196347 BA, US6155369 A, US6087806 A, US6021862 A, US5690582 A, US2014353055 AA, US2013081892 AA, US2013075176 AA, US2012290160 AA, US2012168242 AA, US2012053804 AA, US2011183793 AA, US2011144841 AA, US2009095552 AA, US2008143292 AA, US2007042868 AA, US2003217874 AA, JP2002255081 A2, JP2001114184 A2, EP1614616 A2,

Forward Citations: WO18142437, WO17129275, WO15191536, US9956880, US9796449, US9569966, US9505310, US9278727, US8840131, US2018037135, US2017158061, US2017144563, US2016052595, US2014353055, US2012239248, US10176100, US10017069, IT201700010847, FR3042449, EP3360769, EP3154815,

Abstract:

The present disclosure is directed to an electric vehicle with human power input provided by a high output pedal-driven generator. The vehicle includes a computing device with a user interface that mimics an electric exercise bicycle, with both pre-set and custom exercise program profiles.



6) Family number: 30827047 (US2004164514A)

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Title: TRICYCLE AND GUIDE HANDLE

Priority: US20030374919 20030225 US20030744977 20031222 US20050272931 20051114

Family:	Publication number	Publication date	Application number	Application date
	US2004164514 AA	20040826	US20030374919	20030225
	US2004164515 AA	20040826	US20030744977	20031222
	US6874802 BB	20050405	US20030374919	20030225
	US7000935 BB	20060221	US20030744977	20031222
	US7281725 BA	20071016	US20050272931	20051114

Probable Assignee: HUFFY CORP

Assignee(s):(std): HUFFY CORP

Assignee(s): PATRIARCH PARTNERS AGENCY SERVICES LLC ; WILMINGTON TRUST CO ; UNITED WHEELS USA CORP ; BEAN ANDREW J ; CITIC KA WAH BANK LTD ; CITIC KA WAH BANK NEW YORK BRANCH LTD ; FIFTH THIRD BANK AGENT AS ; FIFTH THIRD BANK AS AGENT ; GUNTER DAVID M

Inventor(s):(std): BEAN ANDREW J ; GUNTER DAVID M

Agent(s): DINSMORE AND SHOHL LLP; HOWREY LLP; MICHAEL J

International class (IPC 8-9): B62H7/00 B62K21/10 B62K9/02 (Advanced/Invention); B62H7/00 B62K9/00 (Core/Invention)

International class (IPC 1-7): B62J7/00 B62K1/00 B62K5/00

CPC: B62H7/00 B62K9/02

European class: B62H7/00 B62K9/02

US class: 280/272 280/282 280/282S 280/288.4 280/291 280/293 280/293P 280/295 280/32.5

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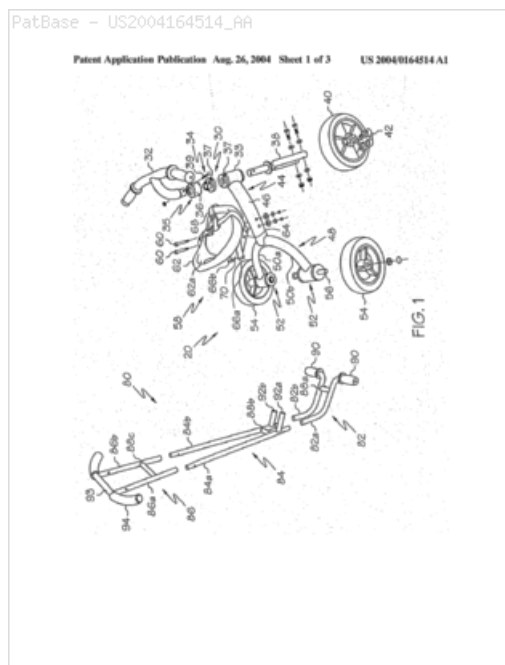
Cited documents: USD427112 S1, USD355870 S1, USD334157 S1, USD310644 S1, USD296774 S1, USD166692 S1, US726610 A, US7156408 BB, US7077415 BB, US7000935 BB, US6918606 BB, US6874802 BB, US6799772 BB, US6685207 BA, US6666470 BB, US6612598 BB, US6612598 BA, US6612598 B1, US6595531 BB, US6595531 BA, US6595531 B1, US6530589 BA, US6491312 BB, US6491312 BA, US6491312 B1, US6471229 BB, US6443469 BA, US642269 A, US6419243 BB, US6378884 BA, US6343806 BA, US6302421 BA, US6276694 BA, US6257598 BA, US6186524 BA, US6170841 BA, US6170841 B1, US6164666 A, US6161847 A, US6149178 A, US6135479 A, US6120048 A, US6089587 A, US6082754 A, US6003890 A, US5924713 A, US591864 A, US5823554 A, US579664 A, US5669624 A, US5564313 A, US5558348 A, US5505493 A, US5499834 A, US5467838 A, US5306030 A, US5279181 A, US5085063 A, US5029891 A, US5028066 A, US4903857 A, US4887827 A, US4852898 A, US4744575 A, US4714261 A, US4700963 A, US4674761 A, US4653773 A, US4608729 A, US4346725 A, US4261588 A, US4138131 A, US4006915 A, US3954283 A, US3705733 A, US3485507 A, US3256034 A, US2787353 A, US2672351 A, US2006027996 AA, US2006001232 AA, US2005035596 AA, US2003201621 AA, US2003178806 AA, US2003141693 AA, US2002089139 AA, US2002089138 AA, US1793848 A, US1570410 A, US1449255 A, US1230801 A, JP8142966 A2, JP3045486 A2, JP10250665, FR2587672 A1,

Forward Citations: WO18134500, WO16196768, WO14062650, USD828787, USD827503, USD813102, USD787378, USD777607, USD714693, USD649920, USD582488, US9981679, US9862447, US9821875, US9789893, US9764787, US9682739, US9643672, US9610999, US9475534, US9371109, US9162727, US9150273, US9114842, US8998233, US8864161, US8844960, US8801010, US8764041, US8740235, US8602432, US8517406, US8465037, US8439385, US8313118, US8251381, US7926828, US7857330, US7819414, US7487982, US7281725, US7261308, US6991243, US2018072338, US2018050748, US2017113709,

US2016280297, US2015091272, US2014312591, US2014210178, US2014203527, US2014159335, US2014138932, US2013038030, US2011133913, US2011074125, US2010331149, US2010308561, US2009108559, US2009079153, US2008143067, US2008007026, US2007284843, US2006186641, US2006022434, US2005268200, US2005253348, US2005057012, US10167035, FR3062111, FR2930929, DE202010009012, CN104129458, CN103732486, CN102923228, AU2012261670, AU2012261670, AU2012261670,

Abstract:

A tricycle includes a mainframe with front and rear sections. The front section may include a steering assembly with a rotatable wheel. The rear section may provide support for two spaced wheels and may be configured to provide a substantially unencumbered open area between the spaced wheels. The tricycle features a guide handle removably connected to the tricycle and having a pair of footrests integrally connected to the guide handle adjacent a lower end.



7) Family number: 34373055 (DE102005046125B4)

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Title: KLAPPBARES DREIRAD-FAHRGESTELL

Priority: DE200510046125 20050927

Family:	Publication number	Publication date	Application number	Application date
	DE102005046125 A1	20070405	DE200510046125	20050927
	DE102005046125 B4	20190117	DE200510046125	20050927

Probable Assignee: VOLKSWAGEN GROUP

Assignee(s):(std): VOLKSWAGEN AG ; VOLKSWAGEN GROUP

Inventor(s):(std): MUENDEMANN SVEN OLIVER DR ; PLETRICHS ULF ; MUENDEMANN SVEN OLIVER

International class (IPC 8-9): B60N2/26 B62K13/00 B62K15/00 B62K5/06 B62K7/00 B62K9/02 (Advanced/Invention); B60N2/26 B62K13/00 B62K15/00 B62K5/00 B62K7/00 B62K9/00 (Core/Invention)

CPC: B60N2/2848 B62B3/027 B62K9/02 B62K15/006 B62K19/36

European class: B60N2/28G4 B62B3/02S B62K15/00F B62K19/36 B62K9/02

[Classification Explorer](#)

Cited documents: US6685207 BA, US5217240 A, US2619364 A, US1218943 A, JP2003175876 A2, DE4137575 C1, DE29806337 U1, DE29806337 U, DE20213202 U1, DE20213202 U,

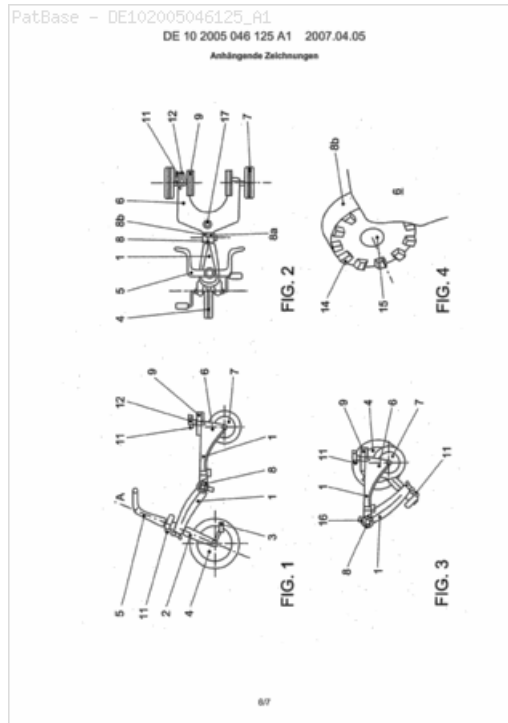
DE202004006903 U1

DE202004006903 U, DE20021368 U1, DE20021368 U, DE20011258 U1, DE20011258 U,

Forward Citations: US8517406,

Abstract:

Source: DE102005046125B4 [DE] Klappbares Dreirad-Fahrgestell, mit einem Laengsholm (1), einer an diesem um ihre Achse drehbar angeordneten Stange mit einem Vorderrad (4) am unteren und einem Griffstueck am oberen Ende und einer mit dem Laengsholm (1) verbundenen Halterung (6) fuer zwei im Abstand voneinander angeordnete Hinterraeeder (7), wobei am Vorderrad (4) Pedale (3) angeordnet sind, wobei der Laengsholm (1) an die Stange anlenkbar ist, wobei der Laengsholm (1) zweiteilig und mit einem feststellbaren Gelenk (8) versehen ist, um das der stangenseitige Teil des Laengsholmes (1) mit der Stange und dem Vorderrad (4) in den Bereich der Halterung (6) fuer die Hinterraeeder (7) klappbar ist, dadurch gekennzeichnet, dass die Halterung (6) eine Aufnahme fuer einen in einem Kraftfahrzeug verwendbaren Kindersitz (22) oder alternativ fuer einen Einkaufskorb (19) oder fuer Transportgut ist und Befestigungselemente (9) aufweist, die Rastaufnahmen fuer einen am Kindersitz (22), am Einkaufskorb (19) oder am Transportgut angeordneten Rastarm (10) eines Befestigungssystems sind, und wobei an der Halterung (6) fuer die Hinterraeeder (7) ein Schiebeelement (13) anordbar ist.



8) Family number: 17715055 (DE29507598U1)

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Title: Vehicle

Priority: DE19952007598U 19950506

Family:

Publication number	Publication date	Application number	Application date
DE29507598 U1	19950831	DE19952007598U	19950506

Probable Assignee: MEINERS HORST

Assignee(s):(std): LUBETZKI JOHANNES ; MEINERS HORST

Assignee(s): MEINERS HORST 50679 KOELN DE ; LUBETZKI JOHANNES 50321 BRUEHL DE

International class (IPC 8-9): B62K13/00 B62K5/02 (Advanced/Invention);
B62K13/00 B62K5/00 (Core/Invention)

International class (IPC 1-7): B62K11/00 B62K13/00 B62K15/00 B62K5/02

CPC: B62K5/02 B62K13/00

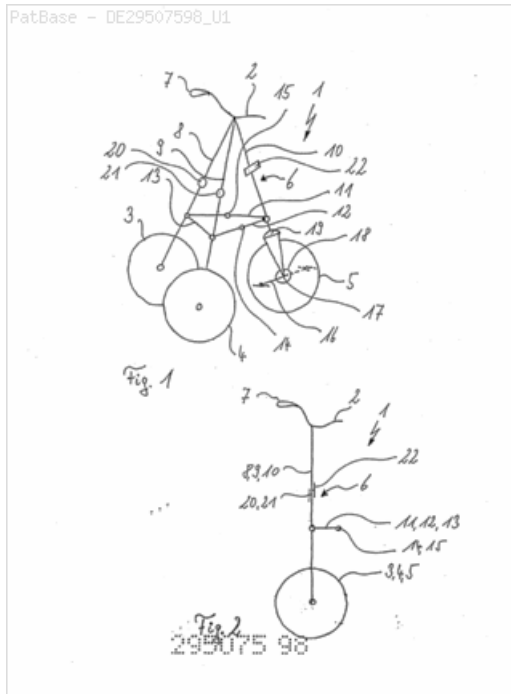
European class: B62K13/00 B62K5/02

[Classification Explorer](#)

Abstract:

Source: DE29507598U1 [DE] (Claim 1) - 1 - Schutzanspruch e :1. Fahrzeug (1) mit einem Sitz (2) und drei Raedern (3, 4, 5), die ueber einGestaenge (6) miteinander verbunden sind, dadurch gekennzeichnet, dass das Gestaenge (6) derart variierbar ist, dass die drei Raeder (3, 4, 5) ineinem Dreieck und nebeneinander auf einer Linie anzuordnen sind.

Machine translation: (Claim 1) - 1 - Schutzanspruch e: 1. Vehicle (1) with one seat (2) and three wheels (3, 4, 5), which over in linkage (6) are connected, is characterized by that the linkage (6) is in such a manner variable that the three wheels (3, 4, 5) are to be located ineinem triangle and next to each other on a line.

**9) Family number: 17673066** (DE9312374U1)

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Title: ZUSAMMENKLAPPBARES DREIRAD Collapsible TRICYCLE (Machine translation)**Priority:** DE19930012374U 19930818

Family:	Publication number	Publication date	Application number	Application date
	DE9312374 U1	19931202	DE19930012374U	19930818

Probable Assignee: CHUANG CHING PAO**Assignee(s):(std):** CHUANG CHING PAO**Assignee(s):** CHUANG CHING PAO MA TOU CHEN TAINAN TW

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

International class (IPC) A63H17/18 B62K15/00 B62K9/02
1-7:

CPC: B62K15/006 B62K9/02**European class:** B62K15/00F B62K9/02[Classification Explorer](#)**Forward Citations:** ITBO20080581,**Abstract:**

Source: DE9312374U1 [DE] (Claim 1) 1. Zusammenklappbares Dreirad, mit einem Rahmen (1), der versehen ist mit einer Gabel (11), deren unteres Ende die Nabe eines Vorderrades (2) drehbar unterstuetzt, einem Kurbelarm (41), einem Sitzrohr (14), das einen Sitz (6) traegt, einer Sitzstrebe (12) und einer Verstaerkungssitzstrebe (13), die mit dem Sitzrohr (14) verbunden sind und mit ihren jeweiligen hinteren Enden zwei Hinterrae der (3) drehbar unterstuetzen, und einer Sitzstange (62), die am Sitz (6) befestigt ist und mit dem Sitzrohr (14) mittels einer Einstelleinrichtung (61) verbunden ist, wobei der Kurbelarm (41) an seinen beiden Enden zwei Pedale (4) aufweist, um das Dreirad durch die Betaetigung der Pedale (4) zu bewegen, wobei die Gabel (11) mit ihrem oberen Ende mit einer Verbindungseinrichtung (51) verbunden ist, die ihrerseits die Gabel (11) mit einer senkrechten Stange einer Lenkstange (5) schwenkbar verbindet, und wobei die Lenkstange (5) zwei horizontale Enden, auf die jeweils ein Griff (52) aufgesteckt ist, sowie ein vertikales unteres Ende aufweist, das mittels der Verbindungseinrichtung (51) mit einem oberen Ende der Gabel (11) verbunden ist, d gekennzeichnet, dass eine mit dem Rahmen (1) verbundene elastische Einrichtung (7); eine mit dem Rahmen (1) verbundene Klappeinrichtung (8); und eine mit der Klappeinrichtung (8) verbundene Verriegelungseinrichtung (9) zum Verriegeln bzw. Entriegeln der Klappeinrichtung (8) vorgesehen sind; der Sitz (6) durch die Koerperbewegung eines Radfahrers wiederholt nach unten gedruickt wird, um das Vorderrad (2) zu einem Sprung nach vorne zu zwingen; und die Klappeinrichtung (8) ein Umklappen des Vorderrades (2) nach links oder nach rechts ermoeglicht, derart, dass sich das Vorderrad (2) in einer zusammengeklappten Stellung in der Naeh e eines der beiden Hinterrae der (3) befindet.

Machine translation: (Claim 1) 1 Collapsible tricycle, with a frame (1), which is provided with a fork (11), the lower end of the hub of a front wheel (2) supported rotatably, a crank arm (41), a seat tube (14), which has a seat (6) carries, a seat stay (12) and a Verstaerkungssitzstrebe (13), which are the seat tube (14) connected and assist with their respective rear ends of two rear wheels (3) rotation, and a perch (62), at the seat (6) is attached and with the seat tube (14) by means of an adjusting device (61) is connected with the crank arm (41) has at its two ends, two pedals (4) to the tricycle to move by pressing the pedal (4), the fork (11) with its upper end with a connecting device (51) is connected, in turn, the fork (11) with a vertical rod of a steering rod (5) combines swiveling, and wherein the steering rod (5) two horizontal ends, on each having a handle (52) is plugged and has a vertical lower end by means of the connecting device (51) having an upper end of the fork (11) connected, d indicated that the frame (1) associated resilient means (7), one with the frame (1) associated Klappeinrich processing (8), and one with the folding means (8) connected locking device (9) for locking and unlocking of the folding device (8) is provided, the seat (6) by Koerperbewegung a cyclist pressured repeatedly to bottom in order to force the front wheel (2) to achieve a leap forward, and the folding device (8) to fold down the front derrades (2) to the left or right enables, such that the front wheel (2) in a collapsed position in the proximity of the two rear wheels (3) is located.

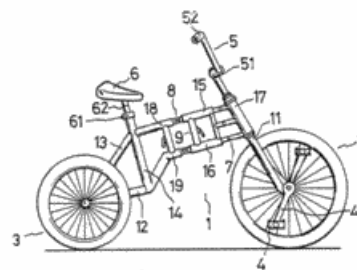


FIG. 1

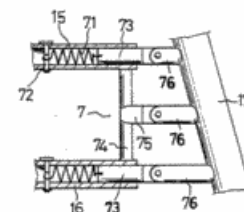


FIG. 2

10) Family number: 10776095 (DE4212051A1)

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Title: Folding tricycle for inner-city use - has height-adjustable handlebars and folding two-wheeled rear frame section DREIRAEDRIGES, KLAPPBARES TRETMOBIL MIT DOPPELLENKUNG

Priority: DE19924212051 19920320

Family:	Publication number	Publication date	Application number	Application date
	DE4212051 A1	19930923	DE19924212051	19920320

Probable Assignee: BOEWING MICHAEL

Assignee(s):(std): BOEWING MICHAEL ; DRESCHER CHRISTOPH

Assignee(s): DRESCHER CHRISTOPH 6050 OFFENBACH DE ; BOEWING MICHAEL 65719 HOFHEIM DE

Inventor(s):(std): BOEWING MICHAEL ; DRESCHER CHRISTOPH

Inventor(s): DRESCHER CHRISTOPH 6050 OFFENBACH DE ; BOEWING MICHAEL 65719 HOFHEIM DE

International class (IPC 8-9): B62K15/00 B62K3/00 (Advanced/Invention);
B62K15/00 B62K3/00 (Core/Invention)

International class (IPC 1-7): B62K15/00

CPC: B62K3/002 B62K15/006

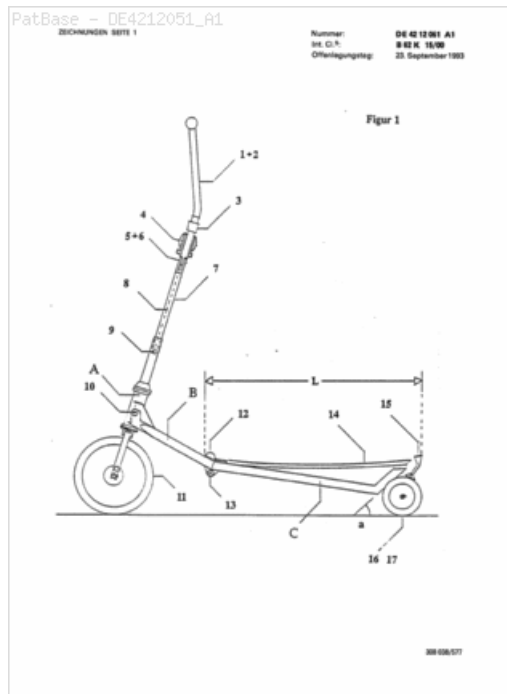
European class: B62K15/00F B62K3/00B

[Classification Explorer](#)

Forward Citations: WO9626860, WO9626860, WO0105646, US8887852, US2013306392, EP0638475, DE9403583, DE9403582, DE202016002691, CN103347777, CN103347777,

Abstract:

The tricycle is for use by children and adults over short distances in inner-city areas. It has height-adjustable handlebars (1, 2) for the front steering wheel (11) and with a hinged joint (1) to the front section (B) of the frame. A further hinge (13) joins the rear frame section (C), in which is a standing surface (14), to the front section. There is an axle with two rear wheels (16, 17) on the rear section. In the folded position, the overall length (L) of the rear section does not exceed that of the handlebar portion (A). USE/ADVANTAGE - Compact folding tricycle combines advantages of skateboard and scooter.



11) Family number: 17667098 (DE9208000U1)

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Title: FLUGDRACHEN-FAHR-MOBIL Kite-driving-MOBILE (Machine translation)

Priority: DE19920008000U 19920615

Family:

Publication number	Publication date	Application number	Application date
DE9208000 U1	19930930	DE19920008000U	19920615

Probable Assignee: WESTERWELLER KURT WILHELM FRANZ

Assignee(s):(std): WESTERWELLER KURT WILHELM FRANZ

Assignee(s): WESTERWELLER KURT WILHELM FRANZ 56305 PUDERBACH DE

International class (IPC 8-9): B62K17/00 B62K3/00 B62M1/24 B63H16/18 B64C31/04 B64C37/00 (Advanced/Invention); B62K17/00 (Core/Invention)

International class (IPC 1-7): B62K17/00 B63H16/18 B64C31/04

CPC: B62M1/28 B62K3/005 B63H16/12 B64C31/04 B64C37/00

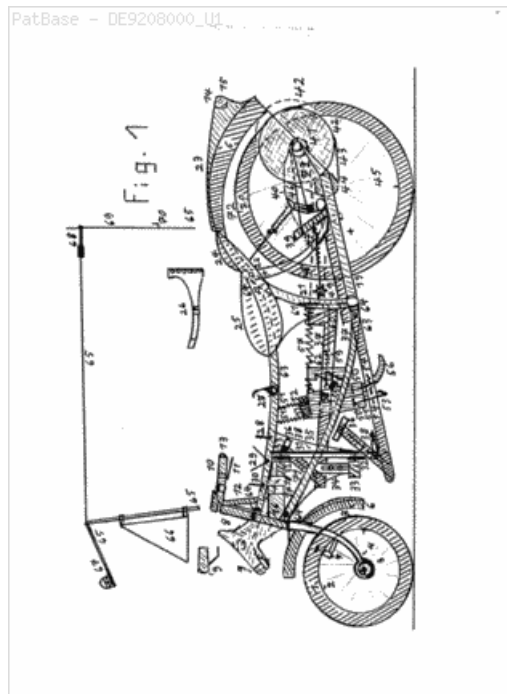
European class: B62K3/00C B62M1/28 B63H16/12 B64C31/04 B64C37/00

[Classification Explorer](#)

Abstract:

Source: DE9208000U1 [DE] (Claim 1) 1. Mehrfach Spezifiziertes Kombinations Flugdrachen (fahr)-mobil, mit siebenfach effktiertem Hebeltriebwerk und oder anderen eigenen Triebwerken bzw. Antrieben, welche da sind aus DE OS 36 40 335 AI (beginnend) S. 18 Abs. 4 oder DE OS 34 03 955 AI S. 1-39 G 86 01 570.2 S. 1-14 und im Heck vom Boden oder ueberlagertem Systeme-halte-boden mit Systeme-halte-platten, einer Keilriementransmission oder Winkelgetriebe n mit sich selbst anpassender Wellenlaenge n, die Verbindung en zur axialen Antriebswelle herstell (t) en, was teilweise die Grundausrstung fuer ein vierraederiges Aufbau-modell ist,

Machine translation: (Claim 1) 1. Several times specifying combination kites (drive) - mobilely, with seven effktiertem levering rubbing work and or other own engines and/or drives, which are from DE OS 36 40 335 aluminium (beginning) there P. 18 exp. 4 or DE OS 34 03 955 aluminium P. 1-39 G 86 01 570,2 P. 1-14 and in the tail system retaining soil with system retaining plates, a drive belt transmission or Winkelgetriebe n with adapting wavelength n, overlaid by the soil or, which connection EN to the axial drive shaft manufacture (t) EN, which the basic equipment is partial for a four-wheeled structure model,



12) Family number: 16080116 (DE29911684U1)

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Title: Folding, muscle power-claimant armchair tricycle FALTBARES, MUSKELKRAFTBETRIEBENES SESSELDREIRAD

Priority: DE19992011684U 19990701

Family:	Publication number	Publication date	Application number	Application date
	DE29911684 U1	20000210	DE19992011684U	19990701

Probable Assignee: BECK CHRISTOPH

Assignee(s):(std): BECK CHRISTOPH ; FRECHEN MATTHIAS ; KRACHT FRANK

International class (IPC 8-9): B62K15/00 B62K3/00 B62K5/04 B62K5/05 (Advanced/Invention); B62K15/00 B62K3/00 B62K5/00 (Core/Invention)

International class (IPC 1-7): B62K15/00 B62K5/02

CPC: B62K3/005 B62K5/05 B62K5/06 B62K15/008

European class: B62K15/00F2 B62K3/00C B62K5/05 B62K5/06

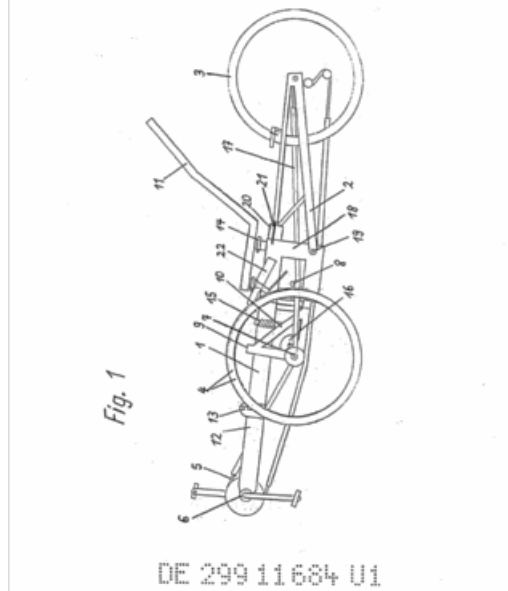
[Classification Explorer](#)

Forward Citations: WO11130134, WO0196174, US8720927, US8342555, DE202010001864, DE102010006894, DE102010006378, DE102010006378, DE102010004701, CN104002904,

Abstract:

Source: DE29911684U1 [DE] (Claim 1) 1. Faltbares, muskelkraftbetriebenes Sesseldreirad, bestehend aus einem Rahmen mit einem laengs zur Fahrtrichtung angeordneten Hauptholm (1), einem in einer Schwinge (2) gefuehrten, hinteren Antriebsrad (3), das ueber eine Kette (5) mittels einem Tretlager (6) angetrieben ist, zwei vorderen, lenkbaren Raedern (4), die auf zwei mit einem Lenkgestaenge (8) verbundenen Achsenstuempfen (7) laufen, welche gelenkig ueber Drehgelenke (9) an zwei vom Hauptholm (1) ausgehende Seitenholmen (10) angeordnet sind, und einem, ungefaehr im Schwerpunkt des Dreirades angeordneten Sesselsitz (11), dadurch gekennzeichnet, dass das Tretlager (6), wie bei einem Liegefahrrad, ueber einen Ausleger (12) in Verlaengerung des Hauptholms (1) vor den Lenkraedern (4) angeordnet, der Ausleger (12) ueber ein Scharnier (13), in Hoehe der Lenkraeder (4), nach oben und weiter nach hinten klappbar angeordnet ist, das Antriebsrad (3) zusammen mit der Hinteradschwinge (2) durch ein Gelenk (19) nach unten und dann weiter nach vorn klappbar angeordnet und der Sitz (11) mittels einem oder mehreren Schnellverschluesen (14) abnehmbar auf dem Hauptholm (1) befestigt ist.

Machine translation: (claim 1) 1 Foldable, muscle power-driven armchair tricycle, consisting of a frame with a longitudinal direction of travel arranged main spar (1), one in a rocker arm (2) guided rear drive wheel (3) which by driven a chain (5) by means of a bottom bracket (6), two steerable front wheels (4), which run on two with a Lenkgestaenge (8) connected Achsenstuempfen (7), which articulated by hinges (9) at two of the main spar (1) outgoing side rails (10) are arranged, and a, approximately in the center of gravity of the tricycle arranged chair seat (11), characterized in that the bottom bracket (6), as in a recumbent, by a boom (12) in extension of the main spar (1) before the steering wheels (4), the boom (12) by a hinge (13) is in the amount of the steering wheels (4), upwardly and located further hinged to the rear, the drive wheel (3) together with the Hinteradschwinge (2) by a hinge (19) downward and then further foldable forwardly disposed, and the seat (11) by means of one or more Schnellverschluesen (14) removably on the main spar (1) is fixed.



DE 299 11684 U1

13) Family number: 33902116 (US2006278455A)

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Title: MODULAR RIDE-ON VEHICLE**Priority:** US20050684615P 20050524 US20050294811 20051205 US20050295184 20051205**Family:**

Publication number	Publication date	Application number	Application date
CN3573703 D	20061025	CN200530147271F	20051123
US2006278455 AA	20061214	US20050294811	20051205
US2006279058 AA	20061214	US20050295184	20051205
WO06127476 A2	20061130	WO2006US19490	20060518
WO06127476 A3	20070927	WO2006US19490	20060518
WO06128003 A2	20061130	WO2006US20453	20060524
WO06128003 A3	20090507	WO2006US20453	20060524

Probable Assignee: MATTEL INC**Assignee(s):(std):** MATTEL INC ; PADGINTON GREGORY ; PROCH NATHAN**Inventor(s):(std):** PADGINTON GREGORY ; PROCH NATHAN**Agent(s):** ALLEMAN HALL MCCOY RUSSELL AND TUTTLE LLP

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

International class (IPC 8-9): B62M1/00 B62M1/08 B62M27/02 (Advanced/Invention); B62M27/00 (Core/Invention)

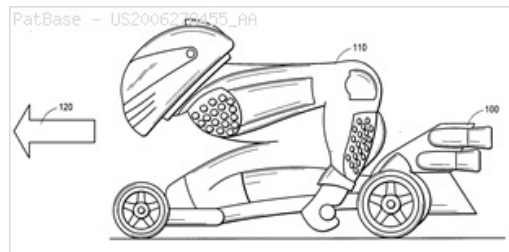
CPC: B62K5/01 B62K9/00 B62K2204/00 A63G25/00**European class:** A63G25/00 B62K5/01 B62K9/00 L62K204/00**US class:** 180/193 280/251 280/251P**Locarno class:** 21/01[Classification Explorer](#)

Cited documents: WO9308884 A1, USD257164 S1, US6932370 BB, US6918627 BB, US6848527 BB, US6805657 BB, US6776424 BB, US6575479 BB, US6554087 BB, US6467560 BA, US6435290 BA, US6352274 BA, US6305305 BA, US6257944 BA, US6070894 A, US5950754 A, US5927732 A, US5893425 A, US5853184 A, US5727391 A, US5725224 A, US5700174 A, US5607374 A, US5568935 A, US5427391 A, US5263732 A, US4930796 A, US4883436 A, US4842091 A, US4682668 A, US4678444 A, US4676521 A, US4669992 A, US4353573 A, US4151892 A, US4134599 A, US3799283 A, US3776353 A, US3689092 A, US2123486 A, US2004200651 AA, US2004163867 AA, US2004097334 AA, US2004005957 AA,

Forward Citations: WO09148991, US9150102, US8562004, US8272920, US7988524, US2011022545, US2010216372, US2010096823,

Abstract:

A children's ride-on vehicle, comprising: a chassis; and an interface disposed on the chassis configured to selectively receive one of a plurality of interchangeable modular components altering a function of the ride-on vehicle.



14) Family number: 32504130 (WO05120939A1)

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Title: TRICYCLE FOR EXTREME SPORTS TRICYCLE POUR SPORTS EXTREMES

Priority: KR20040016340U 20040610

Family:	Publication number	Publication date	Application number	Application date
	KR200360701 Y1	20040907	KR20040016340U	20040610
	WO05120939 A1	20051222	WO2005KR01754	20050610

Probable Assignee: SUNTOPIA IND CO LTD

Assignee(s):(std): CHO MOON SUN ; SUNTOPIA IND CO LTD

Assignee(s): SUNTOPIA INDUSTRIAL CO ; SUNTOPIA INDUSTRIAL CO LTD

Inventor(s):(std): CHO MOON SUN

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

International class (IPC 8-9): B62K3/00 B62K5/00 B62K5/02 B62K5/025 B62K5/04 (Advanced/Invention); B62K5/00 B62K5/02 (Advanced/Non-invention)

International class (IPC 1-7): B62K5/02

CPC: B62K3/005 B62K5/025 B62K5/10 B62K2005/001

European class: B62K3/00C B62K5/025 B62K5/10 L62K5/00B

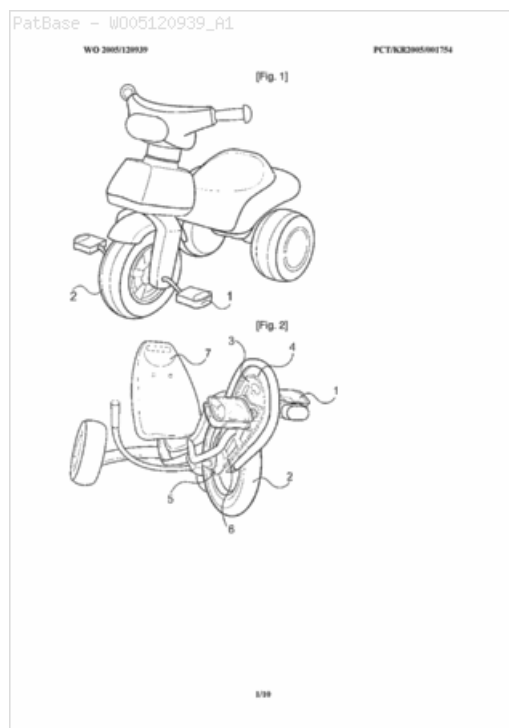
[Classification Explorer](#)

Cited documents: US6352274 BA, US5484152 A, US4526392 A,

Forward Citations: WO13166731, US9174693, EP3412548, CN102180210,

Abstract:

Disclosed is a tricycle for extreme sports, improved from conventional infant riding instruments. A main frame has a rear portion bent at 15-30 degrees and a coupling surface for coupling the saddle and the rear wheel shaft. A saddle is fixed to the coupling surface of the main frame. A back support surrounds upper rear body of rider. Wings are formed on both sides of the back support to transmit rider's weight to the main frame according to transfer of gravity center of rider. The rear wheel shaft is coupled to a lower surface of the coupling surface and also includes a rear wheel fixing frame hinged to center of the rear wheel shaft and a suspension composed of damper and spring between the rear wheel fixing frame and the rear wheel shaft. A shock-absorbing unit made of rubber block is positioned between the saddle and the coupling surface.



Title: Wheeled personal mobility devices with collapsible wheel axle assemblies and integrated steering and propulsion linkages

Priority: US20010848334 20010504 WO2002US14077 20020506 US20030464509 20030619

Family:

Publication number	Publication date	Application number	Application date
AU2002340715 AA	20021118	AU20020340715	20020506
US2002163164 AA	20021107	US20010848334	20010504
US2003205881 AA	20031106	US20030464509	20030619
US6607207 BB	20030819	US20010848334	20010504
US7100929 BB	20060905	US20030464509	20030619
WO02090147 A2	20021114	WO2002US14077	20020506
WO02090147 A3	20031113	WO2002US14077	20020506
WO02090147 B1	20031211	WO2002US14077	20020506

Probable Assignee: RICHARD N SHAPIRO AND PANCAKE WHEELED PRODUCTS LLC

Assignee(s):(std): GURECKI PHILIP A ; SHAPIRO RICHARD N

Assignee(s): RICHARD N SHAPIRO AND PANCAKE WHEELED PRODUCTS LLC

Inventor(s):(std): GURECKI PHILIP A ; SHAPIRO RICHARD N

Inventor(s): PHILIP A GURECKI ; RICHARD N SHAPIRO

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

International class (IPC 8-9): B62K15/00 B62K5/00 B62K5/02 B62K9/00 (Advanced/Invention); B62K5/00 B62K9/00 (Core/Invention)

International class (IPC 1-7): B60R B62B1/00 B62K1/00 B62K15/00

CPC: B62K9/00 B62K15/008 B62K2204/00

European class: B62K15/00F2 B62K9/00 L62K204/00

US class: 280/200 280/200P 280/261 280/278 280/282 280/287 280/39 280/639 280/639S 280/651 280/651P

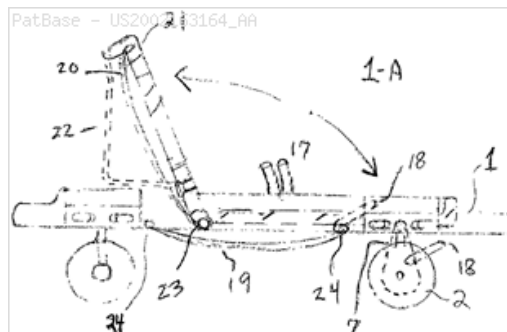
[Classification Explorer](#)

Cited documents: US6966572 BB, US6966572 BA, US6854551 BB, US6854551 BA, US6742797 BB, US6742797 BA, US6575486 BB, US6575486 BA, US6152473 A, US5240267 A, US5186482 A, US4457529 A, US2975850 A, US2879072 A, US2468914 A, US2004061304 AA, US1274045 A,

Forward Citations: WO15005778, WO10140143, US9241849, US9227683, US9193368, US9150102, US8979098, US8955870, US8876131, US8801009, US8789638, US8770598, US8636293, US8186698, US8091916, US7819409, US7794375, US7784816, US7662042, US7584978, US7568720, US7118115, US6854551, US6845991, US6729647, US2017029061, US2015137465, US2014183832, US2013103245, US2013098700, US2013075995, US2012104722, US2012068433, US2012038123, US2010140889, US2010072730, US2010066057, US2008197590, US2007273126, US2007052189, US2005159219, US2004245733, US2003184043, US2002139591, US10011316, GB2397810, GB2397810, GB2396849, DE102014113710, CN106240725, CN106240725, CN106240712, CN106240712, AT412396,

Abstract:

Wheeled personal mobility vehicles with extremely thin stowed profiles are provided, which in one embodiment, include a plurality of movable, collapsible wheel axle assemblies which are supported on a support frame and movable between an operative state where the wheels provide rolling support, and a collapsed state where the wheels are moved into the side elevational profile of the device. The embodiment provides for both integrated propulsion and steering linkage to the wheels when they are manually moved into their operative position, along with a collapsible steering mechanism, a support base and at least one collapsible seat. This embodiment may also provide for pedal power, battery, fuel cell or motive power as well as remote control operation. Several alternative pedal or motive power, wheeled devices and tricycles collapse all parts into a thin, side elevational profile, and one alternative "tricycle" embodiment includes a multiple jointed "A-frame" embodiment incorporating folding handlebars as well as movable wheel axle assemblies which parts all fold into two or more parallel planes to provide for extremely thin, compact storage and/or transport. Various embodiments may include unique multi-function folding pedals which may be manipulated to provide for selective changing of gears, glide mode, as well as friction braking.



Title: HUMAN POWERED VEHICLE

Priority: WO2011NL50043 20110125

Family:

Publication number	Publication date	Application number	Application date
WO12102605 A1	20120802	WO2011NL50043	20110125

Probable Assignee: RAVELLI HENRICUS EMILE

Assignee(s):(std): RAVELLI HENRICUS EMILE

Inventor(s):(std): RAVELLI HENRICUS EMILE

Agent(s): GEURTS FRANCISCUS ANTONIUS

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 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

International class (IPC 8-9): A63B22/00 B62K15/00 B62K3/00 B62K5/02 B62M1/12 B62M1/26 (Advanced/Invention)

CPC: A63B22/20 A63B2022/067 B62M1/12 B62K3/002 B62K5/02 B62K15/006 B62M1/26

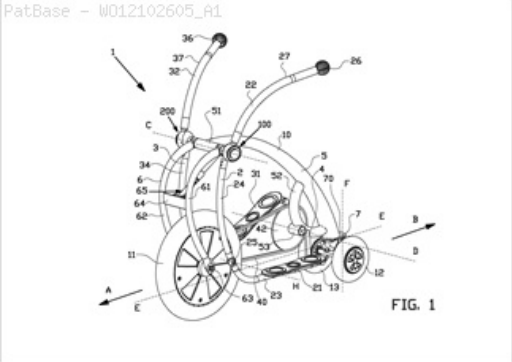
European class: B62K15/00F B62K3/00B B62K5/02 B62M1/12 B62M1/26

[Classification Explorer](#)

Cited documents: WO08043144 A1, US5775708 A, US2010230924 AA, US2009309326 AA, EP1982908 A1, CH700555 A2,

Forward Citations: FR2998252,

Abstract:
The invention relates to a human powered device (1), comprising a first vehicular wheel (11), a second vehicular wheel (12), a frame (10) connecting the first wheel to the second wheel, a crank set (14) which is connected to the frame (10) and a transmission between the crank set (14) and at least one of the wheels, wherein the device is provided with a first drive mechanism (2) and a second drive mechanism (3), wherein the first drive mechanism comprises a first pedal (21) and a first handle- bar (22), wherein the second drive mechanism comprises a second pedal (31) and a second handlebar (32), wherein the device comprises a handlebar axle (51) which rotatably connects the first handlebar and the second handlebar to the frame, wherein the first handlebar and the second handlebar move in a mutually opposite reciprocating manner about the handlebar axle (51).



17) Family number: 23368140 (DE10061612A1) © PatBase

Title: Scooter or kick board, provided with various joint facilities for the attachment of accessories like seat or skids

Priority: DE20001061612 20001211

Family:

Publication number	Publication date	Application number	Application date
DE10061612 A1	20020613	DE20001061612	20001211

Probable Assignee: PIEPER WOLFGANG

Assignee(s):(std): PIEPER WOLFGANG ; STROBEL MATTHIAS

Inventor(s):(std): PIEPER WOLFGANG ; STROBEL MATTHIAS

International class (IPC 8-9): B62K3/00 (Advanced/Invention); B62K3/00 (Core/Invention)

International class (IPC 1-7): A63C17/01 A63C17/26 A63C17/28 A63C5/06 B62B19/02 B62J1/16 B62K3/00 B62K5/02

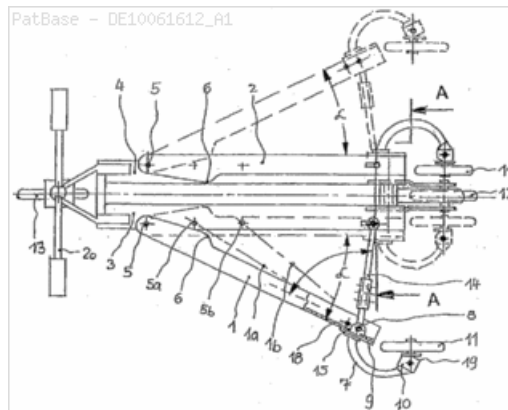
CPC: B62K3/002

European class: B62K3/00B

[Classification Explorer](#)

Forward Citations: WO08062306, WO04087491, WO04087491, US8801006, GB2457020, GB2457020, FR2852914, EP1608546, DE19856682, CN106943728, CN106943728,

Abstract:
The basic scooter is assembled of a front and a rear wheel, a platform, a steering column and a handle bar. Depending on the occasion it can be fitted with a snowboard at the bottom, two wheels can be added to the rear wheel, a seat on top of a high bar can be attached, skids can be joined to each of the wheels, a childrens seat can be attached in front of the steering column, and the steering bar can be folded in order to use the device as a sleigh.



18) Family number: 4658154 (US5028066A)

© PatBase

Title: STEPWISE CONVERTIBLE TRICYCLE TOY

Priority: US19880189378 19880502

Family:	Publication number	Publication date	Application number	Application date
	US5028066 A	19910702	US19880189378	19880502

Probable Assignee: GARTH GEORGE V

Assignee(s):(std): GARTH GEORGE V

Inventor(s):(std): GARTH GEORGE V

International class (IPC 8-9): B62J99/00 B62K9/00 (Advanced/Invention);
B62J99/00 B62K9/00 (Core/Invention)

International class (IPC 1-7): B62B1/04 B62B7/00 B62K19/30 B62K9/00

CPC: B62H7/00 B62K9/02 Y10T74/20822

European class: B62H7/00 B62K9/02

US class: 280/282 280/293 280/30 280/47.11 280/47.371 74/551.8

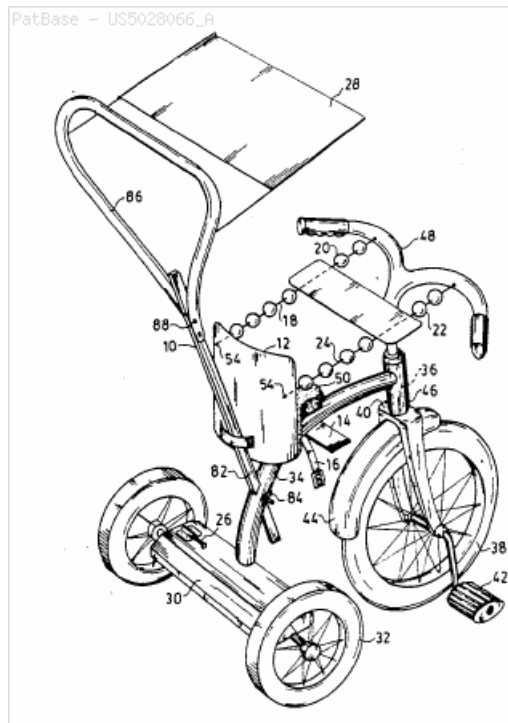
[Classification Explorer](#)

Cited documents: US4832354 A, US4730840 A, US3816873 A, US3595599 A, US3550998 A, US3485507 A, US3079162 A, US2976912 A, US1218943 A, GB1272304 A, FR2512767 A1, DE2924798 A1,

Forward Citations: WO14121018, WO14068165, USD787378, USD778817, USD777607, USD735090, US9821875, US9789893, US9610999, US9371109, US9162727, US9150273, US9114842, US8864161, US8764041, US8740235, US8602432, US8465037, US8439385, US8313118, US7819414, US7281725, US7222871, US7000935, US6918606, US6874802, US6726233, US6302421, US6149178, US6135479, US6089587, US5924713, US5884922, US5791675, US5692760, US5577750, US5558348, US5531494, US5499835, US5395130, US5382040, US5306030, US5217240, US5154096, US2018050748, US2011074125, US2011057484, US2010331149, US2008007026, US2006237947, US2006022434, US2005035573, US2004164515, US2004164514, US2004066018, TWI592323, FR2728862, DE20020959, DE19735707, CN106184541,

Abstract:

This is a baby toy which matures with the baby from infancy through childhood, accelerating and enhancing baby's mental and physical development, encouraging fitness, and helping baby develop coordination skills at an earlier age. The toy is an enhanced tricycle with stepwise removable parts, which comprise one or more of the following: push and guide handle, foot rest, back support, seat belt, left and right restrainers with or without spacers which allow adjustment of a snap-in front restrainer, the side restrainers also preventing the handlebars from being rotated by the occupant, child proof parking brake to allow the tricycle to be safely stored or parked, and a sun shade. The push and guide handle allows pushing while walking behind the toy vehicle, guiding and controlling the direction of toy's travel, while allowing the occupant child to participate in the propulsion and guidance processes as soon as the child is ready. The push and guide handle will also allow the person supervising the child to help the child develop braking skills—a skill which is not normally developed with conventional tricycles, and which makes the conventional tricycles unsafe. The collapsible handle will allow the toy to fit into the trunk of a car and be adjusted to convenient operating positions for persons of various heights. The stepwise convertible tricycle toy is capable of shipment in knocked down form in a compact container for quick and easy assembly by non-skilled, non-technical persons using only the basic tools.



19) Family number: 17713158 (DE29505231U1)

© PatBase

Title:	OFFENES FAHRZEUG OHNE SITZ FUER EINE PERSON INSBESONDERE MIT ELEKTROANTRIEB Open VEHICLE WITHOUT SEAT FOR ONE PERSON IN PARTICULAR WITH ELECTRIC DRIVE (Machine translation)			
Priority:	DE19952005231U 19950328			
Family:	Publication number	Publication date	Application number	Application date
	DE29505231 U1	19950706	DE19952005231U	19950328
Probable Assignee:	RICHTER BERTHOLD			
Assignee(s):(std):	RICHTER BERTHOLD			
Assignee(s):	RICHTER BERTHOLD 97799 ZEITLOFS DE			
International class (IPC 8-9):	B62D51/02 B62K3/00 (Advanced/Invention); B62D51/00 B62K3/00 (Core/Invention)			
International class (IPC 1-7):	B62D51/02 B62D61/00 B62M1/02 B62M7/00			
CPC:	B62D51/02 B62K3/002			
European class:	B62D51/02 B62K3/00B			

[Classification Explorer](#)

Abstract:

Source: DE29505231U1 [DE] (Claim 1) Schutzansprüche t 1 . O ffenes Fahrzeug ohne Sitz f u r eine Person insbesondere mit E l ektoant r i eb dadurch gekennzeichnet,dass es im Stehen bedient und gefahren wird und mindestens ue ber drei Raeder verf u gt, von denen mindestens eines motorisch angetrieben wird.

Machine translation: (Claim 1) right to protection t 1. O PEN vehicle without seat f U r one person in particular mite l eb ri ektoant characterized in that it is operated in a standing and down and at least three wheels avail over ue u gt, of which at least one motor-driven.

20) Family number: 59778162 (US2015197311A)

© PatBase

Title:	FOOT-SLIDING QUAD VEHICLE WITH TILT-GRIP STEERING			
Priority:	US20140964858P 20140116 US20150598237 20150116			
Family:	Publication number	Publication date	Application number	Application date
	US2015197311 AA	20150716	US20150598237	20150116
Probable Assignee:	ENTREKIN NATHAN WAYNE			
Assignee(s):(std):	ENTREKIN NATHAN WAYNE			
Inventor(s):(std):	ENTREKIN NATHAN WAYNE			
International class (IPC 8-9):	B62M1/36 (Advanced/Invention)			

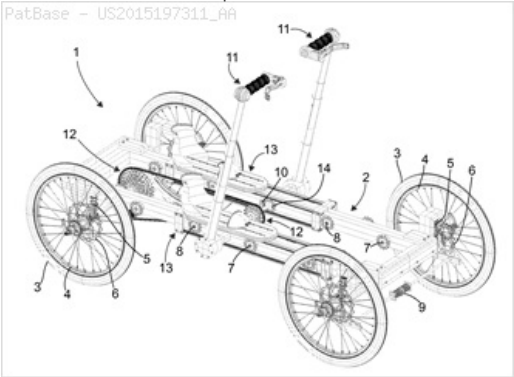
CPC: B62M1/12 B62M1/24 B62K5/00
US class: 280/228

[Classification Explorer](#)

Cited documents: US8764040 BA, US8292315 BA, US7887070 BB, US7654545 BA, US5125677 A, US4674762 A, US2013030662 AA, FR2490576 B1, CN1923602 A,
Forward Citations: CN105752241,

Abstract:

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-geared 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.



21) Family number: 51120165 (MX2010007310A)

© PatBase

Title: CONVERTIBLE BICYCLE OF EASY CONNEXION.
Priority: MX20100007310 20100701

Family:	Publication number	Publication date	Application number	Application date
	MX2010007310 A1	20120123	MX20100007310	20100701

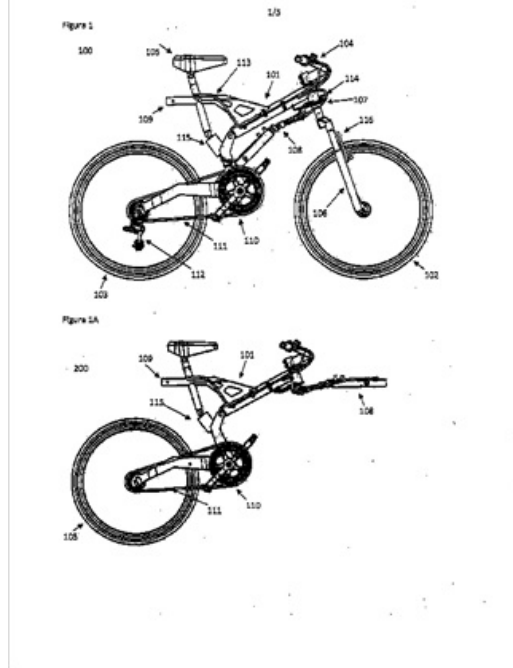
Probable Assignee: CHAVEZ OLAO DONALDO TORRES
Assignee(s):(std): CHAVEZ OLAO DONALDO TORRES
Assignee(s): OLAO DONALDO TORRES CHAVEZ
Inventor(s):(std): CHAVEZ OLAO DONALDO TORRES
Inventor(s): OLAO DONALDO TORRES CHAVEZ

International class (IPC 8-9): B62K3/12 (Advanced/Invention)
CPC: B62K13/025

[Classification Explorer](#)

Abstract:

The present invention refers to a convertible, connectable, towable and easily connected tandem bicycle of three wheels formed by a leading bicycle and a follower unicycle, and also a train of "n" follower unicyles and a leading bicycle, where "n" is higher than or equal to 1, and where the leading and towed bicycles are connected by a connector arm which provides the required vertical, horizontal and torsional flexibility to deal with an irregular floor and curves.

**22) Family number: 33589167** (FR2884759A)

© PatBase

Title: WHEEL BODY STRUCTURE FOR E.G. RETRACTABLE SKATE, HAS WHEEL BODIES PROVIDED TO AND MADE INTEGRATED WITH AXIAL BASE AND SHARES SAME OUTER DIAMETER, AND TIRE EITHER INJECTION OR CASTING MOLDED OR DIRECTLY MOUNTED TO WHEEL BODY

Priority: FR20050004109 20050425

Family:	Publication number	Publication date	Application number	Application date
	FR2884759 A3	20061027	FR20050004109	20050425

Probable Assignee: FAR GREAT PLASTICS IND CO LTD

Assignee(s):(std): FAR GREAT PLASTICS IND CO LTD

Assignee(s): FAR GREAT PLASTICS INDUSTRIAL CO ; FAR GREAT PLASTICS INDUSTRIAL CO LTD

Inventor(s):(std): CHEN TING HSING

International class (IPC 8-9): B60B3/06 B60B3/08 B62H1/12 (Advanced/Invention); B60B3/00 B62H1/00 (Core/Invention)

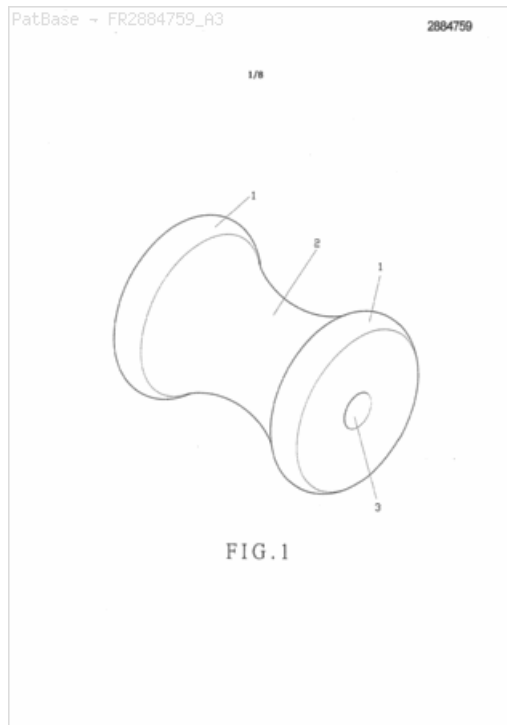
CPC: A63C17/24 B60B5/02 B60B19/12 B60B33/0028 B60B2200/43 B60B2200/45 B60B2200/47 B60B2310/204 B60B2900/113 B60B2900/212 B60Y2200/13 B60Y2200/81 B62K13/04

European class: A63C17/24 B60B19/12 B60B33/00C B60B5/02 B62K13/04 L60B200/43 L60B200/45 L60B200/47 L60B310/204 L60B900/113 L60B900/212 L60Y200/13 L60Y200/81

[Classification Explorer](#)

Abstract:

The structure has two wheel bodies (1) and an axial base (2), where each wheel body is provided to and made integrated with the axial base and shares the same outer diameter. An axial hole is provided to the axial base, where the axial base has a maximal outer diameter smaller than that of each wheel body. Each wheel body wears a tire made on its surface, where the tire is either injection molded or casting molded or is directly mounted to the wheel body.



23) Family number: 42256169 (US2005263981A)

© PatBase

Title: FOLDING FRAME FOR A TRICYCLE, SCOOTER OR CHILD'S BICYCLE
Priority: DE200420006903U 20040429 US20050081875 20050317 CA20052503478 20050401
 US20070717097 20070313

Family:	Publication number	Publication date	Application number	Application date
	CA2503478 AA	20051029	CA20052503478	20050401
	CA2503478 C	20131231	CA20052503478	20050401
	DE202004006903 U1	20040701	DE200420006903U	20040429
	EP1591352 A1	20051102	EP20040012316	20040525
	MXPA05004235 A1	20051123	MX2005PA04235	20050421
	US2005263981 AA	20051201	US20050081875	20050317
	US2007182124 AA	20070809	US20070717097	20070313
	US7210696 BB	20070501	US20050081875	20050317
	US7300066 BB	20071127	US20070717097	20070313

Probable Assignee: KETTLER INT INC
Assignee(s):(std): KETTLER JOACHIM ; KETTLER KARIN ; ROCHOLL REINHOLD ; HEINZ KETTLER GMBH AND CO KG ; KETTLER HEINZ
Assignee(s): KETTLER INT INC ; HEINZ KETTLER GMBH ; ROCHOLL REINHARD
Inventor(s):(std): KETTLER JOACHIM ; KETTLER HEINZ ; ROCHOLL REINHARD ; REINHARD ROCHOLL ; ROCHOLL REINHOLD ; KETTLER KARIN ; KETTLER LEGAL REPRESENTATIVE K
Inventor(s): KETTLER LEGAL REPRESENTATIVE KARIN ; KETTLER LEGAL REPRESENTATIVE KAR DOT OVER O N ; KETTLER LEGAL REPRESENTATIVE KAR DOT OVER
Agent(s): OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; GOWLING LAFLEUR HENDERSON LLP; HOFFMAN WASSON AND GITLER PC CRYSTAL CENTER 2 SUITE 522; HOFFMAN WASSON AND GITLER PC; HOFFMAN WASSON AND GITLER

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

International class (IPC 8-9): B62K1/00 B62K15/00 B62K3/00 B62K5/02 B62K5/06 B62K9/00 B62K9/02 (Advanced/Invention); B62K1/00 B62K15/00 B62K3/00 B62K5/00 B62K9/00 (Core/Invention)

International class (IPC 1-7): B62K15/00 B62K3/00 B62K5/06 B62K9/00 B62K9/02

CPC: Y10T403/32327 B62K9/02 B62K15/006

European class: B62K15/00F B62K9/02

US class: 280/287 403/92

[Classification Explorer](#)

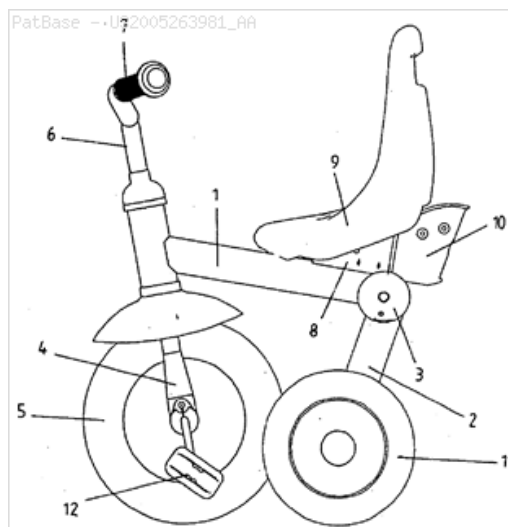
Cited documents: US6966572 BB, US6431567 BB, US5772227 A, US4457529 A, US2003141695 AA, US2002167143 AA, US2002147143, DE10031235 A1,

Forward Citations: WO18051206, WO17182947, WO15011385, WO12010221, WO11026300, WO08090308, USD787378, USD777607, USD714693, USD621304, US9981679, US9815513, US9789893, US9598133, US9452805, US9248882, US9114843, US9114842, US9061726, US8876128, US8844960, US8746722, US8714576, US8646801, US8602436, US8523213, US8523212, US8517406, US8480113, US8459679, US8459678, US8419121, US8414007, US8348294, US2015050073, US2013264792, US2013062863, US2011181014,

US2011109059, US2011018226, US2010308561, US2009250977, US2008061528, US2007284900, US10202163, US10150529, US10040500, FR3008950, DE102015106905, DE102015106905, DE102011052290, DE102005046125, DE102005046125, CN105270535, CN102310913, CN102060072,

Abstract:

A folding frame for a tricycle, scooter or child's bicycle, with a front frame part on which the front wheels can be mounted at least indirectly, a rear frame part on which the rear wheels can be mounted, a swivelling joint with a front articulated part which is mounted on the front frame part, and with a rear articulated part which is mounted on the rear frame part, the first of the two articulated parts has a first recess and the second of the two articulated parts has a second recess and a third recess, the first recess and the second recess in the position of use of the frame are in alignment, and the first recess and the third recess in the folded position are in alignment, and the first articulated part and the second articulated part are locked against one another in the position of use and in the folded position via a pin which can be moved in the recesses.



24) Family number: 28312170 (US2002167147A)

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Title: Method and apparatus for inhibiting stones and other objects from wedging under the wheels of a scooter

Priority: US20010280288P 20010330 US20020113792 20020401

Family:	Publication number	Publication date	Application number	Application date
	US2002167147 AA	20021114	US20020113792	20020401

Probable Assignee: MUEHLHAUSER GARRETT J

Assignee(s): MUEHLHAUSER GARRETT J

Inventor(s):(std): MUEHLHAUSER GARRETT J

International class (IPC 8-9): B62J99/00 B62K3/00 (Advanced/Invention)

International class (IPC 1-7): B62M1/00

CPC: B62J99/00 B62J2099/0066 B62K3/002

European class: B62J99/00 B62K3/00B L62J99/00J

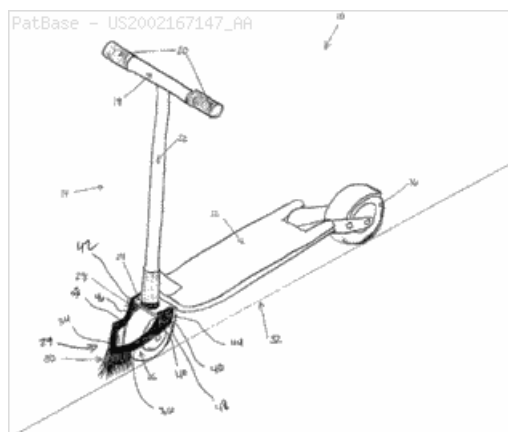
US class: 280/87.041 280/87.041P

[Classification Explorer](#)

Forward Citations: US9290143, US2009265874, EP1733770,

Abstract:

A pathway clearing apparatus for a scooter. The apparatus includes a ground engaging brush and a bracket to pivotally mount the brush in front of the wheel of the scooter.



25) Family number: 31883192 (US2005098972A)

© PatBase

Title: CHILD TRANSPORT VEHICLE AND CARRIER ADAPTED THEREFOR
Priority: US20030702855 20031106

Family:	Publication number	Publication date	Application number	Application date
	US2005098972 AA	20050512	US20030702855	20031106
	US7188849 BB	20070313	US20030702855	20031106

Probable Assignee: LEE KWI H
Assignee(s):(std): LEE KWI H ; LEE KWI HOON
Inventor(s):(std): LEE KWI HOON ; LEE KWI H
Inventor(s): LEE KWI
Agent(s): DRINKER BIDDLE AND REATH, ATTN: INTELLECTUAL PROPERTY GROUP; DRINKER BIDDLE AND REATH
ATTN INTELLECTUAL PROPERTY GROUP; DRINKER BIDDLE AND REATH LLP

International class (IPC 8-9): B62B9/12 B62J1/16 B62K3/00 (Advanced/Invention);
B62B9/00 B62J1/00 B62K3/00 (Core/Invention)

International class (IPC 1-7): B62M1/00

CPC: B62J1/16 B62K3/002
European class: B62J1/16 B62K3/00B
US class: 280/32.7 280/327 280/62 280/87.021

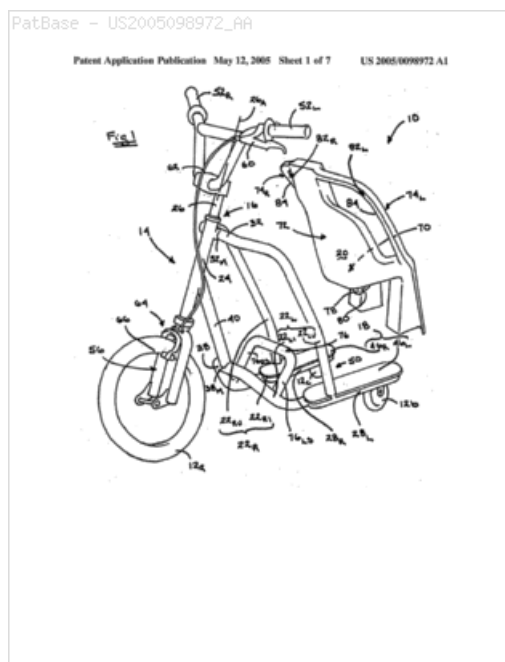
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Cited documents: US7004272 BA, US6991243 BB, US6585284 BB, US6378879 BB, US5785331 A, US5039121 A, US4096920 A, US3902737 A, US3834726 A, US2907372 A, US2508670 A, US2482585 A, US1962013 A, US1838877 A, US1706048 A, US1678836 A, US1661257 A, US1427417 A, US1418569 A, US1399833 A,

Forward Citations: WO11001130, USD630158, US9114821, US8534689, US8500134, US8262114, US8042869, US7803098, US2011198822, US2010283220, US2009015046, US2007142181, US2007037668, US2006053363,

Abstract:

A child transport vehicle and child carrier adapted therefor which enables an adult rider to transport a young child and/or include the child in his/her daily exercise routine. The child transport vehicle has at least three wheels supporting a main structural frame in triangular pattern. The vehicle is characterized by a child carrier adapted for use in combination with the main structural frame such that the child is positioned rearwardly to face an adult rider during operation. The child transport vehicle provides exercise for the adult rider and entertainment/stimulation for the child rider.

**26) Family number: 42777195** (US2009008164A)

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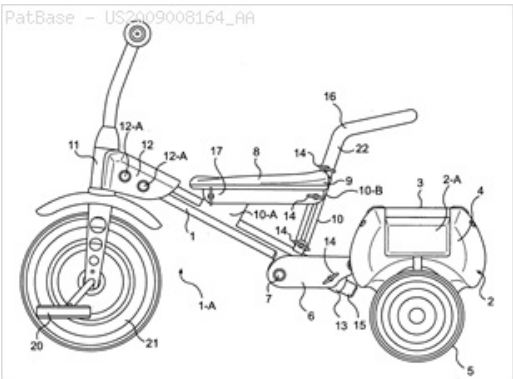
Title: RIDING VEHICLES, INCLUDING TRICYCLES, WITH STOWABLE PUSH HANDLES AND HIDE AWAY REAR WHEEL STORAGE COMPARTMENT
Priority: US20070824722 20070703

Family:	Publication number	Publication date	Application number	Application date
	US2009008164 AA	20090108	US20070824722	20070703
	US7658252 BB	20100209	US20070824722	20070703

Probable Assignee: SHAPIRO RICHARD N

Assignee(s):(std): SHAPIRO RICHARD N
Inventor(s):(std): SHAPIRO RICHARD N
Agent(s): RICHARD N SHAPIRO
International class (IPC 8-9): B62K11/00 B62K15/00 B62K5/00 (Advanced/Invention); B62K11/00 B62K15/00 B62K5/00 (Core/Invention)
CPC: B62K9/02
European class: B62K9/02
US class: 180/19.3 180/208 180/21 180/210 280/259 280/278 280/282 280/287 280/304.4 280/62
[Classification Explorer](#)
Cited documents: US7222871 BB, US6666470 BB, US3755835 A, US3314494 A, US2008001374 AA, US2006237947 AA, US2004245743 AA, US2004239070 AA, US2003132596 AA,
Forward Citations: WO13181872, WO12037800, USD828787, USD827503, USD813102, USD787378, USD777607, USD714693, US9981679, US9815513, US9789893, US9764787, US9643672, US9598133, US9493205, US9452805, US9248882, US9114842, US9061726, US8876128, US8844960, US8746722, US8714576, US8646801, US8517406, US8480113, US8047594, US2018072338, US2013264792, US2013062863, US2010308561, US10202163, US10179624, US10011316, CN104890788, CN104890788,

Abstract:
Wheeled riding vehicles, including tricycles, with extremely thin stowed profiles are provided, which in one embodiment, include movable, collapsible tires/wheel axle assemblies, as well as folding frame parts and a unique handle that is removable and stowable within the vehicle frame when not used. The riding vehicle hangs totally flat on the wall, or fits in car trunks easily. One version is pedal powered, and a second embodiment provides for an integrated propulsion linkage providing for battery or motor power to the rear most wheels when they are moved into their operative position. The rear tire wheel assemblies also may be stowed and folded compactly inside a rear storage compartment with a lid.



27) Family number: 28879203 (US2003141695A)

© PatBase

Title: CHILD TRICYCLE FOLDING STRUCTURE
Priority: US20020054917 20020125 GB20020001946 20020129

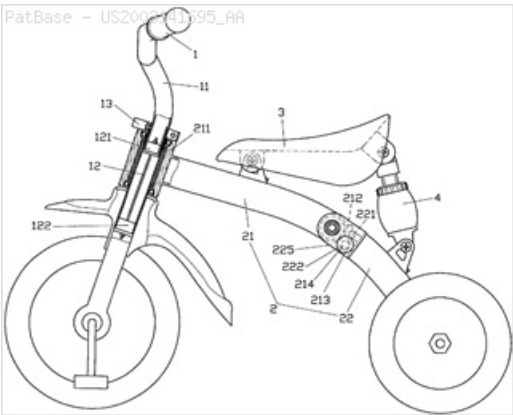
Family:	Publication number	Publication date	Application number	Application date
	GB200201946 A0	20020313	GB20020001946	20020129
	GB2384468 A1	20030730	GB20020001946	20020129
	US2003141695 AA	20030731	US20020054917	20020125

Probable Assignee: FAR GREAT PLASTICS INDUSTRIAL CO LTD
Assignee(s):(std): CHEN TING HSING ; FAR GREAT PLASTICS IND CO LTD
Assignee(s): FAR GREAT PLASTICS INDUSTRIAL CO LTD
Inventor(s):(std): CHEN TING HSING
Inventor(s): TING HSING CHEN
International class (IPC 8-9): B62K15/00 B62K9/02 (Advanced/Invention); B62K15/00 B62K9/00 (Core/Invention)
International class (IPC 1-7): B62K15/00 B62K9/02
CPC: B62K9/02 B62K15/008
European class: B62K15/00F2 B62K9/02
US class: 280/287
[Classification Explorer](#)

Cited documents: GB1432583 A,
Forward Citations: WO17140061, WO17140059, USD787378, USD782942, USD777607, USD714693, USD621304, US9981679, US9789893, US9738343, US9452805, US9114842, US8844960, US8523213, US8517406, US8459679, US7300066, US7210696, US2016221628, US2011018226, US2010308561, US2008277901, US2008061528, US2005263981, KR101531278, EP1591352, EP1535827, EP1535827,

Abstract:
A folding structure for a child tricycle comprises a handle inserted with a vertical tube into a head tube of a frame, a frame divided into a front and a rear sections pivoted together, a seat, and a shock absorber. Wherein, one end of a flexible cord is fixed in the vertical tube of the handle and another end fixed in the head tube then secured with a quick-release connector. The front section of the seat is pivoted to the front section of the frame and the rear section of the seat is connected to one end of the shock absorber while another end of the shock absorber is pivoted to the rear section of the frame. A protruding pin and a convex plate provided with a positioning hole at a rear end of the front section of the frame and correspondingly, a lateral stop and a fastener at a front end of

the rear section of the frame.



28) Family number: 32390218 (FR2869657B)

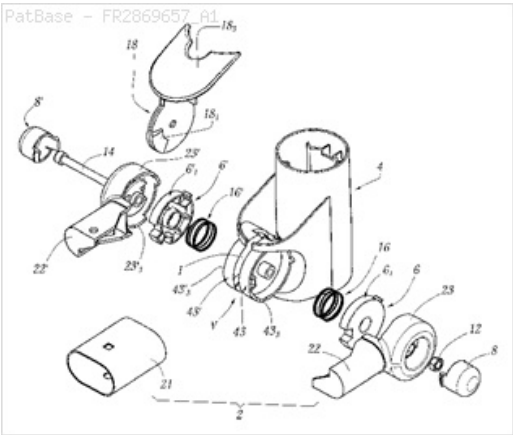
© PatBase

Title: ENSEMBLE PLIABLE POUR JOUET D'ENFANT, ET JOUET D'ENFANT CORRESPONDANT
Priority: FR20040004667 20040430
Family:

Publication number	Publication date	Application number	Application date
FR2869657 A1	20051104	FR20040004667	20040430
FR2869657 B1	20070803	FR20040004667	20040430

Probable Assignee: BERCHET GROUPE SOC SA
Assignee(s):(std): BERCHET GROUPE SA SOC ; BERCHET GROUPE SOC SA
Assignee(s): SOCIETE BERCHET GROUPE SOCIETE ANONYME ; BERCHET GROUPE SOC ; BERCHET GROUPE ANONYME SOC
Inventor(s):(std): BERCHET JEAN LOUIS
Inventor(s): JEAN LOUIS BERCHET
Agent(s): CABINET REGIMBEAU
International class (IPC 8-9): A63G9/00 B62K15/00 B62K9/02 F16C11/04 (Advanced/Invention); A63G9/00 B62K15/00 B62K9/00 F16C11/04 (Core/Invention)
International class (IPC 1-7): A63G9/00 B62K15/00 B62K9/02 F16C11/04
CPC: B62K15/006
European class: B62K15/00F
[Classification Explorer](#)
Cited documents: WO03004343 A1, US2003094840 AA,

Abstract:
The assembly has a frame tube (2) and a traversing tube (4) that are rotatable around an axis, between a storage position and a utilization position. Locking units (18) lock external and internal cogs (23, 23', 43, 43') actuated by a user and moved between a locking position and an unlocking position. The locking units maintain the cogs at the level of complementary teeth (233, 23'3, 433, 43'3) of the cogs. An independent claim is also included for an infant toy such as a tricycle, stroller, riding push toy, or a construction such as seesaw, child awakening gantry or exterior gantry.



29) Family number: 30577224 (GB2412098A)

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Title: SUPPLEMENTARY HANDLEBAR FOR A BICYCLE

Priority: GB20040005727 20040315

Family:	Publication number	Publication date	Application number	Application date
	GB200405727 A0	20040421	GB20040005727	20040315
	GB2412098 A1	20050921	GB20040005727	20040315
	GB2412098 B2	20070418	GB20040005727	20040315

Probable Assignee: UKATA EUGENIA E
Assignee(s):(std): UKATA EUGENIA E ; UKATA EUGENIA ETSEOPOH
Assignee(s): EUGENIA ETSEOPOH UKATA
Inventor(s):(std): UKATA EUGENIA ETSEOPOH
Inventor(s): EUGENIA ETSEOPOH UKATA

International class (IPC 8-9): B62K21/12 (Advanced/Invention);
B62K21/00 (Core/Invention)

International class (IPC 1-7): B62K21/12

CPC: B62K21/12 B62K21/125

European class: B62K21/12B

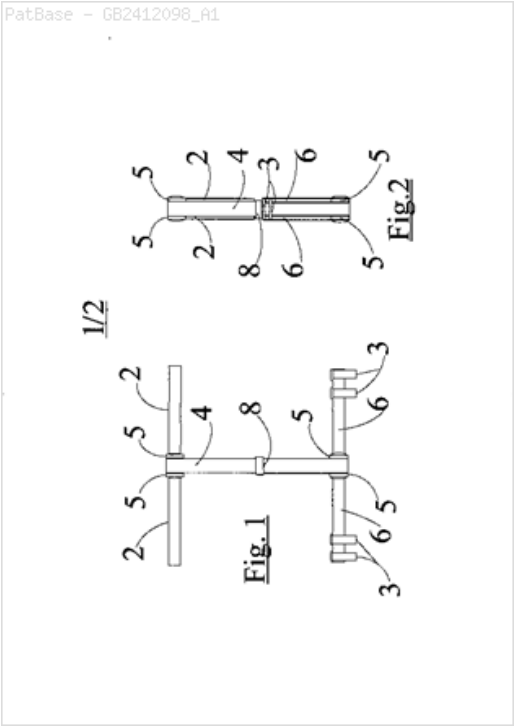
[Classification Explorer](#)

Cited documents: WO9735758 A1, US5503419 A, US2002108465 AA, FR2668744 A1,

Forward Citations: WO14114904, GB2510122, CN104890783, CN102700670,

Abstract:

An additional handlebar for a wheeled vehicle, e.g. a child's bicycle, comprises a telescopic stem 4, a handlebar portion 2 which is movably and pivotally secured to one end of the stem, and attachment means 3, e.g. belt and buckle, that are secured to the other end of the stem and which enable the additional handlebar to be detachably mounted to the existing handlebars of the vehicle. The arrangement allows a child's bicycle to be easily pushed by an adult.



30) Family number: 59328225 (US9039025B)

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Title: FOLDABLE CHILDREN'S TRICYCLE

Priority: US20140283391 20140521

Family:	Publication number	Publication date	Application number	Application date
	US9039025 BA	20150526	US20140283391	20140521

Probable Assignee: SHIH MING HE
Assignee(s):(std): SHIH MING HE
Inventor(s):(std): SHIH MING HE
Agent(s): ROSENBERG KLEIN AND LEE
International class (IPC 8-9): B62K15/00 B62K9/02 (Advanced/Invention)

CPC: B62K15/006 B62K9/02

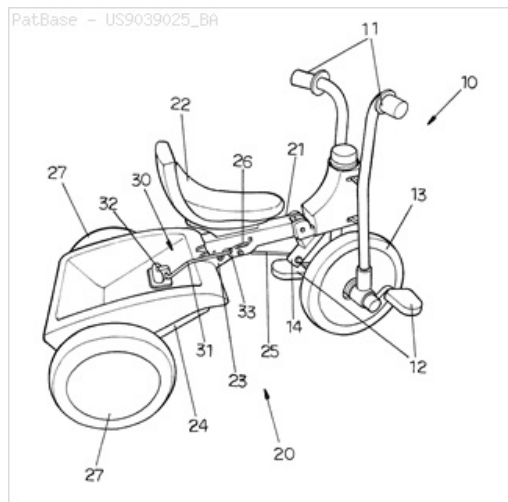
US class: 280/282

[Classification Explorer](#)

Cited documents: US6966572 BB, US6935649 BB, US6609723 BB, US6575486 BB, US6530589 BA, US6152473 A,
Forward Citations: US9580131,

Abstract:

A foldable children's tricycle comprises a tricycle front, a link device and a positioning assembly. The tricycle can be folded by using the link device, which can save space and reduce transportation cost. In addition, an inserting rod of the positioning assembly can be engaged in first or second positioning grooves of the link device, so the tricycle can be fixed when expanding or folding, thus improving the structural strength of the tricycle.



31) Family number: 52927230 (US2015048585A)

© PatBase

Title: TRICYCLE WITH FOLDABLE DOUBLE -WHEEL ASSEMBLY
Priority: CN201220260404U 20120604 WO2012CN077876 20120629 US20140388087 20140925
US20160292661 20161013

Family:	Publication number	Publication date	Application number	Application date
	CN202703797 U	20130130	CN201220260404U	20120604
	EP2857300 A1	20150408	EP20120878445	20120629
	EP2857300 A4	20160113	EP20120878445	20120629
	US2015048585 AA	20150219	US20120388087	20120629
	US2017029061 AA	20170202	US20160292661	20161013
	US9493205 BB	20161115	US20120388087	20120629
	US10011316 BB	20180703	US20160292661	20161013
	WO13181872 A1	20131212	WO2012CN077876	20120629

Probable Assignee: SMART TRIKE MNF PTE LTD
Assignee(s):(std): BEN MEIR ILAN ; SMART TRIKE MNF PTE LTD ; TAITELE CO LTD
Assignee(s): TAITELE CO
Inventor(s):(std): BEN MEIR ILAN ; YI LAN
Agent(s): LECOMTE AND PARTNERS; ROACH BROWN MCCARTHY AND GRUBER PC; KEVIN D; LUNGTIN INT INTELLECTUAL PROPERTY AGENT LTD
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 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 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

International class (IPC 8-9): B62J25/00 B62K11/00 B62K13/04 B62K15/00 B62K21/12 B62K5/02 B62K5/06 B62K9/02 B62M1/38 (Advanced/Invention); B62K21/12 B62M1/38 (Advanced/Non-invention)
CPC: B62K5/02 B62K15/00 B62K9/02 B62K15/006 B62M1/38 B62K13/04 B62K2015/003 B62K21/12 B62K5/06
US class: 280/278 280/7.15

[Classification Explorer](#)

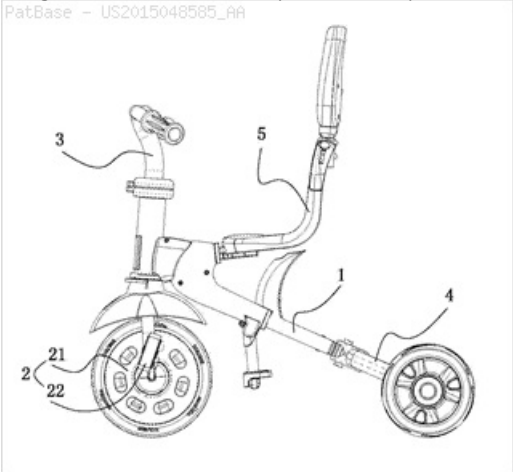
Cited documents: WO12011706 A2, WO04087491 A2, US9731785 BA, US7681895 BB, US6719310 BA, US6695327 BA, US6554302 BA, US6485039 BA, US5240267 A, US4695071 A, US4540192 A, US2014217696 AA, US2013140787 AA, US2012043733 AA, US2011089656 AA, US2010206652 AA, US2009115160 AA, US2009008164 AA, US2007170666 AA, US2006243507 AA, US2005156396 AA, US2004130126 AA, US2004075230 AA, US2003085539 AA, US2003080533 AA, US2002163164 AA, JP853091, JP8053091 A2, DE202010000663 U1

Forward Citations: CN2931261 Y, CN2652793 Y, CA2628447 AA, WO16055538, USD828786, USD827501, US9834271, CN106428355,

Abstract:

A tricycle with foldable double wheel assembly comprises: a frame, a single-wheel assembly and a double-wheel assembly respectively disposed at front end and rear end of the frame, and a handlebar assembly matching with the single-wheel assembly to control steering, the double-wheel assembly comprising a supporting beam and two wheels disposed on the supporting beam, wherein the supporting beam comprises two branches of same structures, the two wheels being respectively disposed on the two branches, the

supporting beam having a first stable state where the two branches are open, and a second stable state where the two branches are put together side by side. The supporting beam in the double-wheel assembly of the present utility model is foldable so that it is not necessary to occupy a relatively large space to carry/store the tricycle and the usage convenience of the tricycle is thus improved.



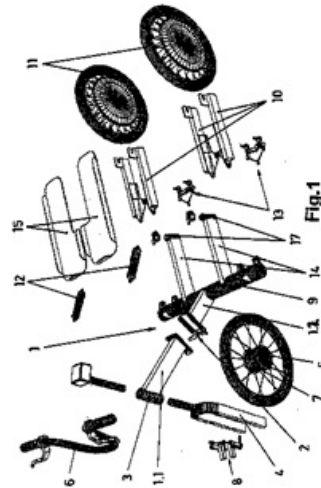
32) Family number: 49467237 (ES1075227Y) © PatBase

Title:	TRICICLO ELECTRICO MULTIFUNCION			
Priority:	ES20110000530U 20110607			
Family:	Publication number	Publication date	Application number	Application date
	ES1075227 UA	20110822	ES20110000530U	20110607
	ES1075227 Y1	20111118	ES20110000530U	20110607
Probable Assignee:	DISENO Y CONCEPTUALIZACION DEL TRANSPORTE NAVARRA S L U			
Assignee(s):(std):	DISENO Y CONCEPTUALIZACION DEL TRANSPORTE NAVARRA S L U			
Assignee(s):	DISENO Y CONCEPTUALIZACION DEL TRANSPORTE NAVARRAS L U ; DISENO Y CONCEPTUALIZACION DEL TRANSPORTE NAVARRASLU			
Inventor(s):(std):	GOMEZ MIGUEL LUIS			
International class (IPC 8-9):	B60K1/00 B62K5/02 (Advanced/Invention)			
CPC:	B62K3/002 B62J9/00 B62K5/06 B62K7/00 B62K15/006			

[Classification Explorer](#)

Abstract:

Source: ES1075227U [ES] 1. Triciclo electrico multifuncion, formado por un bastidor (1) que en la parte delantera incorpora una horquilla (4) portadora de una rueda delantera (5) y un manillar (6), mientras que en la parte posterior incorpora dos ruedas traseras (11) y una plataforma (15) de apoyo del usuario conductor, caracterizado porque el bastidor (1) comprende una parte delantera (1.1) y una parte posterior (1.2) que van unidas mediante una articulacion (2) provista con un cierre de bloqueo, yendo incorporada en la parte delantera (1.1) una rueda delantera (5) que incorpora un motor electrico (6) en su eje, mientras que la parte posterior (1.2) posee un tubo horizontal (9) en posicion transversal, sobre el cual se unen en articulacion unos brazos (10) de soporte de las ruedas traseras (11), yendo unidos a dicho tubo horizontal (9) ademas unos brazos fijos (14) provistos con unos acoplamientos (17) que permiten la sujecion de accesorios para la adaptacion del triciclo a diferentes funcionalidades de uso.2. Triciclo electrico multifuncion, de acuerdo con la primera reivindicacion, caracterizado porque los brazos (10) de soporte de las ruedas traseras (11) se sustentan mediante amortiguadores (12).3. Triciclo electrico multifuncion, de acuerdo con la primera reivindicacion, caracterizado porque el manillar (6) va dispuesto en montaje giratorio pudiendo regularse su posicionamiento en basculacion hacia delante y hacia atras.4. Triciclo electrico multifuncion, de acuerdo con la primera reivindicacion, caracterizado porque la plataforma (15) puede ser de una pieza o estar dividida en dos mitades.5. Triciclo electrico multifuncion, de acuerdo con la primera reivindicacion, caracterizado porque en la parte posterior del bastidor (1) se puede incorporar un asiento (18) para apoyo del usuario conductor.6. Triciclo electrico multifuncion, de acuerdo con la primera reivindicacion, caracterizado porque en la parte posterior del bastidor (1) se pueden incorporar uno o mas asientos (22) para ninos.7. Triciclo electrico multifuncion, de acuerdo con la primera reivindicacion, caracterizado porque en la parte posterior del bastidor (1) se pueden incorporar contenedores (19, 23, 24) de distintos tipos, para el transporte de objetos.8. Triciclo electrico multifuncion, de acuerdo con la primera reivindicacion, caracterizado porque en la parte posterior del bastidor (1) se pueden incorporar soportes (20) porta-utiles. **Machine translation:** 1. Multifunction electric tricycle, formed by a frame (1) in the front part incorporates a fork (4) carrying a front wheel (5) and a handle (6), while in the back incorporates two rear wheels (11) and a platform (15) supporting the user conductor, characterized in that the frame (1) comprises a front part (1.1) and a rear portion (1.2) which are joined by a hinge (2) provided with a lock, going incorporated in the front part (1.1) a front wheel (5) which incorporates an electric motor (6) in its axis, while the back (1.2) has a horizontal tube (9) in a transverse position, on which are joined in joint arms (10) Support the rear wheels (11), going attached to said horizontal tube (9) in addition to a few fixed arms (14) provided with couplings (17) which allow the fastening of accessories for the adaptation of the tricycle to different functionalities of use.2. Multifunction electric tricycle, according to the first claim, characterized in that the arms (10) supporting the rear wheels (11) are supported by shock absorbers (12).3. Multifunction electric tricycle, according to the first claim, characterized in that the handle (6) is arranged in rotatable mounting being adjustable in its position tilting forward and backward.4. Multifunction electric tricycle, according to the first claim, characterized in that the platform (15) can be one piece or be divided into two halves.5. Multifunction electric tricycle, according to the first claim, characterized in that the rear of the frame (1) can incorporate a seat (18) to support the user conductor.6. Multifunction electric tricycle, according to the first claim, characterized in that the rear of the frame (1) may incorporate one or more seats (22) for children.7. Multifunction electric tricycle, according to the first claim, characterized in that the rear of the frame (1) can be incorporated containers (19, 23, 24) of different types, for transporting objetos.8. Multifunction electric tricycle, according to the first claim, characterized in that the rear of the frame (1) can be incorporated supports (20) tool holder.

**33) Family number: 46420242** (US2010192722A)

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Title: ARTICULABLE CRANKSET FOR CONVERTING A PEDAL-POWERED VEHICLE INTO A PUSH-POWERED VEHICLE

Priority: US20090363463 20090130 US20130895320 20130515 US20140198840 20140306

Family:	Publication number	Publication date	Application number	Application date
	US2010192722 AA	20100805	US20090363463	20090130
	US2013249185 AA	20130926	US20130895320	20130515
	US2014186803 AA	20140703	US20140198840	20140306
	US8464609 BB	20130618	US20090363463	20090130
	US8707825 BB	20140429	US20130895320	20130515

Probable Assignee: KROOZN LLC

Assignee(s):(std): KROOZN LLC ; SHIU BRIAN KINTING ; SHIU VANESSA CHEN HWA

Inventor(s):(std): SHIU VANESSA CHEN HWA ; SHIU BRIAN KINTING

Agent(s): TIPS GROUP,C/O INTELLEVATE LLC; SYNDICATED LAW; BRIAN S; SYNDICATED LAW PC

International class (IPC 8-9): B62K15/00 B62M15/00 B62M3/00 B62M3/08 G09B9/058 (Advanced/Invention); B62M3/00 (Core/Invention)

CPC: B62K13/00 B62K15/006 B62K2015/003 G09B9/058 B62M3/00

European class: B62K13/00 B62K15/00F B62M3/00 L62K15/00C

US class: 206/579 280/259 280/278 280/287 29/428 434/61 74/594.1 74/594.7 74/594.700P

[Classification Explorer](#)

Cited documents: US8464609 BB, US7288048 BB, US7228761 BA, US7097597 BB, US6968754 BB, US6769708 BB, US6637292 BB, US6581494 BB, US6568038 BB, US652988 A, US6425598 BB, US6003890 A, US567161 A, US5314207 A, US5273300 A, US4887827 A, US4842292 A, US4507105 A, US4429890 A, US4422663 A, US3862725 A, US3746367 A, US3303720 A, US2384139 A, US2007065784 AA, US2006232040 AA, US2003094072 AA, US2001023211 AA, US1276139 A,

Forward Citations: USD847298, USD844744, US9862454, US9815513, US9725132, US9669891, US9598133, US9248882, US9090307, US9061726, US8991845, US8876128, US8746722, US8714576, US8707825, US2017297649, US2016001843, US2015274253, US2015035248, US2013249185, US2012292881, US2010269626, US10202163, US10112087,

Abstract:

The teachings provided herein relate to an articuable crankset for converting a pedal-powered vehicle into a push-powered vehicle having the articuable crankset in a retracted position to provide at least less of an obstruction to a user's legs during use of the push-powered vehicle than a non-retractable crankset. The vehicle can be a bicycle, and the articuable crankset can be a component of a production bicycle or a component of a conversion kit that will convert a bicycle from a pedal-powered bicycle to a convertible bicycle that can also function as a push-powered bicycle.

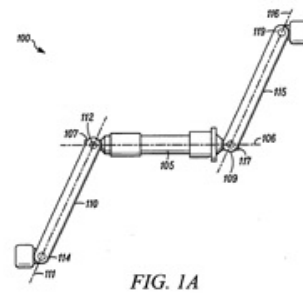


FIG. 1A

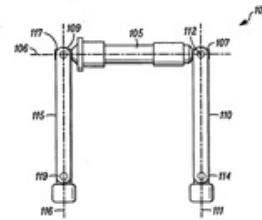


FIG. 1B

34) Family number: 48983245 (AU2009230813A)

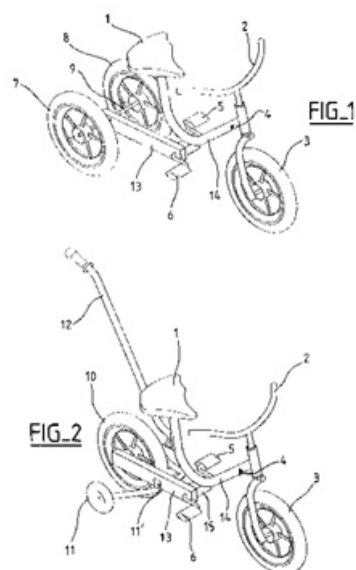
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Title: A vehicle for carrying a large article**Priority:** AU20090230813 20091029

Family:	Publication number	Publication date	Application number	Application date
	AU2009230813 AA	20110519	AU20090230813	20091029

Probable Assignee: MARK BEERLING**Assignee(s):(std):** MARK BEERLING**Assignee(s):** BEERLING MARK WILLIAM**Inventor(s):(std):** BEERLING MARK WILLIAM**Inventor(s):** MARK WILLIAM BEERLING**Agent(s):** IP GATEWAY PATENT AND TRADEMARK ATTORNEYS; IP GATEWAY PATENT AND TRADEMARK ATTORNEYS PTY LTD; IP GATEWAY PATENT AND TRADE MARK ATTORNEYS PTY LTD**International class (IPC 8-9):** B62J7/02 B62K19/30 B62K19/46 B62K3/04 B62K7/02 (Advanced/Invention)**CPC:** B62J7/02 B62K3/02 B62K7/02 B62K15/006 B62K2700/60**European class:** B62J7/02 B62K15/00F B62K3/02 B62K7/02 L62K700/60[Classification Explorer](#)**Abstract:**

: A bicycle 10 for enabling a user to transport a surfboard 34 from one location to another is disclosed. The bicycle 10 includes a substantially vertically extending 5 bicycle frame 12 having two sides extending parallel to the direction of travel of the bicycle 10. The bicycle 10 includes front and rear wheels 14, 16 rotatably mounted on the frame 12, and a handle bar 20 mounted on the frame 12 for steering the front wheel 14. A surfboard 34 can be mounted to the frame 12 with it being positioned in the article mounting zone. The surfboard 34 mounted in this 10 position does not interfere with turning of the front wheel 14 and steering of the handle bar 20 of the bicycle 10. The bicycle 10 also includes a seat formation 22 that is mounted on the frame 12 and is positioned outside of the article mounting zone. The seat formation 22 is of adjustable height to enable its adjustment to suit a particular user. 15 Fig. 2 FOR PUBLICATION C211 2/1 C5- plus or minus ccil and N 2. 7 ;N



36) Family number: 28628259 (US2003080533A)

Title: FOLDING STRUCTURE OF A CHILDREN TRICYCLE

Priority: US20010986518 20011101

Family:

Publication number	Publication date	Application number	Application date
US2003080533 AA	20030501	US20010986518	20011101
US6575486 BB	20030610	US20010986518	20011101

Probable Assignee: FU KUANG HUAN

Assignee(s):(std): MA PEI CHUAN ; NEW ART CITY IND CO LTD

Assignee(s): NEW ART CITY INDUSTRIAL CO LTD ; FU KUANG HUAN

Inventor(s):(std): MA PEI CHUAN

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

International class (IPC B62K15/00 B62K5/06 1-7):

CPC: B62K9/02 B62K15/006

European class: B62K15/00F B62K9/02

US class: 280/282 280/287

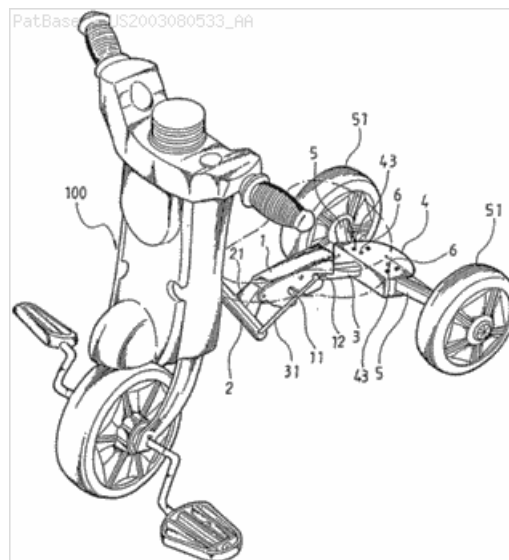
Classification Explorer

Cited documents: US6152473 A, US5924713 A, US5562300 A, US5145196 A, US4958842 A, US4457529 A,

Forward Citations: WO1601893, WO14062650, USD827501, USD787378, USD777607, USD714693, USD649920, USD625932, USD621304, USD5040717, USD535918, USD494509, US9981679, US9789893, US9493205, US9254884, US9114842, US9039075, US8844960, US8720927, US8636293, US8523213, US8517406, US8342555, US7100929, US6966572, US6935649, US2015048585, US2014265233, US2013043666, US2012068433, US2010308561, US2008277901, US2008258435, US2007284900, US2005110239, US2004061304, US2003205881, US10011316, TWI606954, EP2892797, EP2892797, EP1674385, EP1535827, EP1535827, CN103192862.

Abstract:

A folding structure of a children tricycle is disclosed. The folding structure has a pivotal seat connected to a front and rear wheel rod. The fixing rods of the front and rear wheel allows the pivotal seat to rotate, wherein the rear wheel fixing rod is connected to a substantially "C"-shaped fixing seat and the through hole near to the top edge of the two wheel rods is pivotally connected to the fixing seat. The top of the wheel rod is provided with a resilient fastener such that the wheel rod can make use of the through hole as fulcrum to provide extending and folding. The fastener can engage at different fastening holes so that when in use, the wheel rod can be extended and when not in use, the wheel rod can be folded. Thus, the folding structure allows the tricycle to be retracted for storage and transportation.



37) Family number: 58073262 (WO14200500A1)

© PatBase

Title: PERSONAL TRANSPORTATION VEHICLE

Priority: WO2013US45759 20130614

Family:	Publication number	Publication date	Application number	Application date
	WO14200500 A1	20141218	WO2013US45759	20130614

Probable Assignee: LYRIC PTV GLOBAL

Assignee(s):(std): LYRIC PTV GLOBAL

Inventor(s):(std): SMITH KEVIN L

Agent(s): SCOTT RUSSELL C

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM 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

International class (IPC 8-9): B62K15/00 B62K21/18 B62K3/00 (Advanced/Invention)

CPC: B62K15/006 B62K3/002 B62K21/18 B62K2204/00

[Classification Explorer](#)

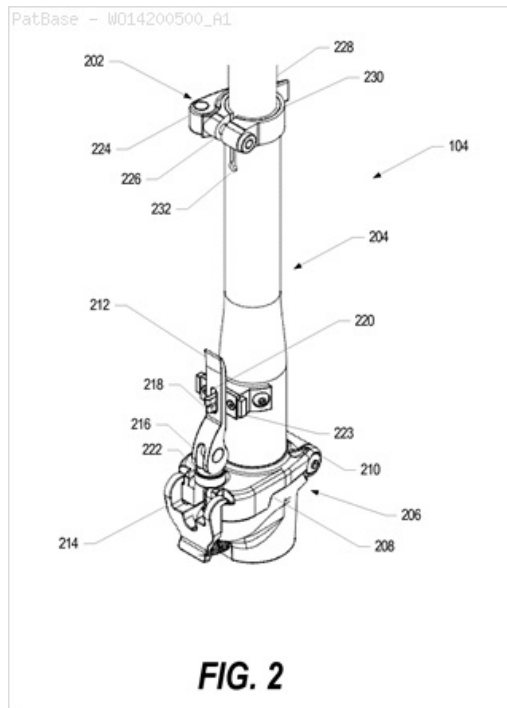
Cited documents: WO11109851 A1, WO09152768 A1, US5440948 A, US2010013183 AA, DE202007008153 U1

CN201971102 U, CN201626517 U,

Forward Citations: FR3046398, CN104648577,

Abstract:

A personal transportation vehicle (100) that includes a foldable frame having handlebars(102), front and rear wheels (114, 122), and a platform (116) for a rider to be positioned while driving the vehicle (100). It also includes an electric motor (120), power source (118), and acceleration mechanism having an acceleration control device. The handlebars (112) of the foldable frame include a foldable stem having a lockable joint (206) for holding the handlebars (112), said lockable joint (206) having a lever (212), at least one tooth (218) for securing the lever (212) in a locked position, a hinge (210), opposing internal surfaces (208) each having a sloping riser to assure contact between the opposing internal surfaces when locked, and a grapnel (214) mechanically coupled to the lockable joint (206).



38) Family number: 29556270 (GB2406315A)

© PatBase

Title: LIGHT PERSONAL VEHICLE

Priority: GB20030022715 20030927

Family:

Publication number	Publication date	Application number	Application date
GB200322715 A0	20031029	GB20030022715	20030927
GB2406315 A1	20050330	GB20030022715	20030927
GB2406315 B2	20080416	GB20030022715	20030927

Probable Assignee: EVANS RUPERT J A

Assignee(s): EVANS RUPERT J A ; EVANS RUPERT JOHN ARMSTRONG

Assignee(s): RUPERT JOHN ARMSTRONG EVANS

Inventor(s): EVANS RUPERT JOHN ARMSTRONG

Inventor(s): RUPERT JOHN ARMSTRONG EVANS

International class (IPC 8-9): B62K11/00 B62K15/00 B62K3/00 B62K5/04 (Advanced/Invention); B62K15/00 B62K3/00 B62K5/00 (Core/Invention)

International class (IPC 1-7): B62K11/00 B62K5/04

CPC: B62K15/006 B62K3/002 B62K11/00

European class: B62K11/00 B62K15/00F B62K3/00B

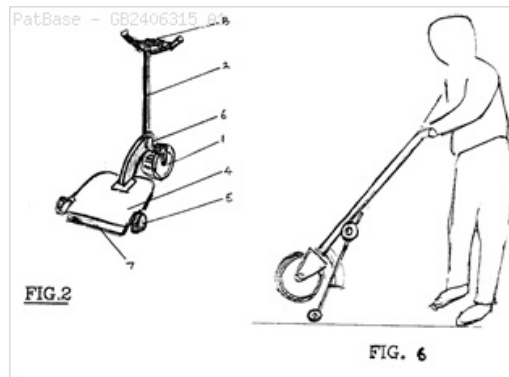
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Cited documents: WO8702633 A1, US6378642 BA, US6267190 BA, US4573549 A, US4354569 A, US3506080 A, GB2306925 A1, GB2242404 A1, GB2127364 A1, GB2074957 A1, FR2224340 A1,

Forward Citations: WO10033516, GB2457020, GB2457020, FR2953481, CN105438369, CN105438369,

Abstract:

The vehicle has three wheels, the single front wheel 1 being steered and powered. It supports a standing or nearly standing rider on a platform 4 that is very close to the ground and has an extension 7 to the riding platform behind the rear wheels 5 to prevent backward toppling of the vehicle and to allow the rider to dismount easily. As this vehicle is intended primarily for use by semi-disabled persons, an automatic speed limiting device is incorporated to make it comply with common legal requirements governing the use of vehicles on pavements and pedestrian areas. The steered front wheel 1 can be pivoted 360°. The vehicle can be folded with rear wheels 5 close to the steering column 2; the platform 4 may have small wheels at the front to support the folded vehicle.



39) Family number: 49015271 (US2011133427A)

© PatBase

Title: RECYCLABLE CARDBOARD BICYCLE

Priority: US20090631831 20091206 WO2010IB55591 20101206 US20120684733 20121126

Family:	Publication number	Publication date	Application number	Application date
	AU2010325664 AA	20110609	AU20100325664	20101206
	EP2507122 A1	20121010	EP20100834302	20101206
	EP2507122 A4	20130925	EP20100834302	20101206
	IN01679MN2012 A	20131018	IN2012MN01679	20120706
	JP2013527066 T2	20130627	JP20120541617T	20101206
	RU2012130327 A	20140120	RU20120130327	20101206
	US2011133427 AA	20110609	US20090631831	20091206
	US2013076002 AA	20130328	US20120684733	20121126
	US8662513 BB	20140304	US20120684733	20121126
	WO11067742 A1	20110609	WO2010IB55591	20101206

Probable Assignee: IG CARDBOARD TECHNOLOGIES LTD

Assignee(s):(std): BASHAN TSAFRIR ; GAFNI IZHAR ; I G CARDBOARD TECHNOLOGIES LTD ; IG CARDBOARD TECHNOLOGIES LTD

Inventor(s):(std): BASHAN TSAFRIR ; GAFNI IZHAR

Agent(s): GRIFFITH HACK; MODIANO MICAELA NADIA; GREENBERG TRAUIG LLP; DR MARK FRIEDMAN LTD

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 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 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

International class (IPC 8-9): B62K1/00 B62K19/02 B62K19/10 B62K19/14 B62K3/00 B62K3/10 B62M1/00 (Advanced/Invention)

CPC: B62K19/02 B62K3/10 B62K19/10 B62K19/14 B62K2700/16 B60B2360/94

European class: B62K19/10 B62K19/14 B62K3/10 B62K9/00 L62K700/16

US class: 280/200 280/210 280/210P 280/259 280/281.1 280/87.05 280/87.050S

JP class F-Term: 3D012 3D212

JP class F-Index: B62K19/02

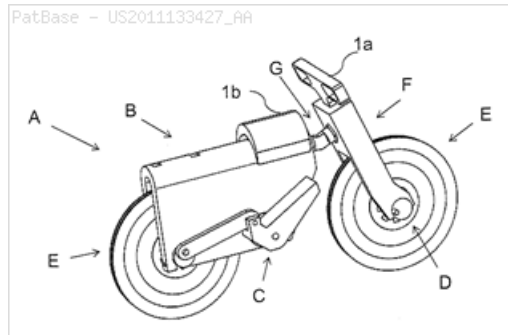
[Classification Explorer](#)

Cited documents: US7223152 BB, US6817621 BB, US617536 A, US6109638 A, US5730453 A, US5540485 A, US5520585 A, US5397146 A, US5318742 A, US5240267 A, US4790546 A, US3807255 A, US3492016 A, US3083036 A, US2393776 A, US2011133427 AA, US2006207481 AA, US2003197346 AA, US1754887 A, JP61215101 A2, JP2006504573 T2, JP2004142739 A2, JP2003118674 A2, JP1269686 A2, ITVA940001 A1, GB2459263 A1, FR524034 A, DE386667 A,

Forward Citations: WO18096533, WO18037414, WO16071895, WO15104701, WO15084949, WO14178038, WO14141228, WO14061012, US9957986, US9688341, US9656715, US9616636, US9598134, US9566993, US9463839, US9457535, US9440487, US9422955, US9409585, US9340222, US8662513, US8388007, US2016194046, US2015375562, US2012098232, US10060457, TWI613081, TWI574858, TWI565618, RU2603256, NL2008187, KR20150126063, KR20150119260, KR20150070112, KR101738320, KR101723759, KR101656632, JP6219397, JP6159414, JP6141519, JP5981678, JP2018034792, JP2017007661, JP2016533936, JP2016520016, JP2016520016, JP2016515489, JP2016504534, JP2015536873, EP3215415, EP3168484, EP3019756, EP3019756, EP3019756, EP2976254, EP2976254, EP2943260, EP2943260, EP2882640, EP2874867, EP2874867, EA028964, EA027646, EA027429, CN105564568, CN104773031, CN104129223, CN104044679, CN103930342, AU2014376838, AU2014376838, AU2013388329, AU2013381776,

Abstract:

A human powered land vehicle sufficiently rigid so as to transport a human rider constructed only from pulpably recyclable and shreddably recyclable materials.



40) Family number: 31967279 (US6959938B)

© PatBase

Title: FOLDING COLLAPSIBLE BABY TRAILER

Priority: US20030436278 20030513

Family:	Publication number	Publication date	Application number	Application date
	CN2688600 Y	20050330	CN200420042404U	20040408
	TWM252615 Y	20041211	TW20040203628U	20040310
	US6959938 BA	20051101	US20030436278	20030513

Probable Assignee: LIU SSU LIU

Assignee(s):(std): LIU SIMAO ; LIU SSU LIU

Inventor(s):(std): LIU SSU LIU ; LIU SIMAO

Inventor(s): SIMAO LIU

Agent(s): TROXELL LAW OFFICE PLLC

International class (IPC 8-9): B62B7/06 B62K27/00 B62K27/02 B62K27/10 (Advanced/Invention); B62B7/00 B62K27/00 (Core/Invention)

International class (IPC 1-7): B62B7/06 B62K27/00 B62K27/02 B62K27/10

CPC: B62K27/003 B62K27/02

European class: B62K27/00 B62K27/00B B62K27/02

US class: 280/204 280/292 280/656

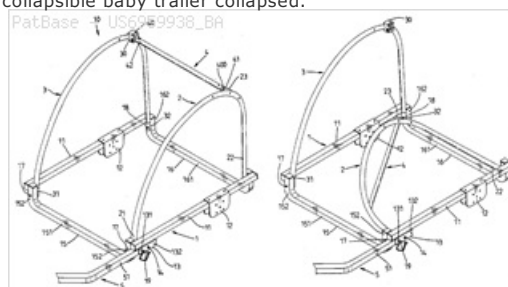
[Classification Explorer](#)

Cited documents: US5947497 A, US5829771 A, US5785333 A, US5669618 A, US5577746 A, US5474316 A, US5454577 A, US5020814 A,

Forward Citations: USD586264, US8950767, US8936269, US8444173, US8251457, US8226102, US8123241, US7967369, US7748728, US7690675, US7445222, US7431324, US7354058, US7341265, US7172206, US2012126505, US2012091689, US2010244517, US2009184488, US2009026817, US2007284842, US2007063474, US2007001430, US2006273555, US2006108766, US2006017264, EP3378754, CN105345800, CN105216945, CN104787210, CN104773247, CN104766440,

Abstract:

A folding collapsible baby trailer is disclosed to include a bottom frame, two upright side frame, a transverse top bar, and a trailer bar, the bottom frame being formed of two side bars, a front bar and a rear bar, the front bar and rear bar of the bottom frame being substantially [US6959938_BA_P00001.TIF] -shaped bars each having an elongated body disposed on the middle below the elevation of the side bars of the bottom frame and two angled end portions respectively extended from two ends of the elongated body and respectively pivoted to distal ends of the first and second upright side frames so that a flat horizontal space is defined above the elongated bodies of the front and rear bars of the bottom frame and below the elevation of the side bars of the bottom frame for receiving the transverse top bar and the upright side frames when the folding collapsible baby trailer collapsed.



41) Family number: 45437287 (EP2371668A1)

© PatBase

Title: Cycles convertible into, for example, shopping trolleys, and frames therefor

Priority: GB20100005193 20100329

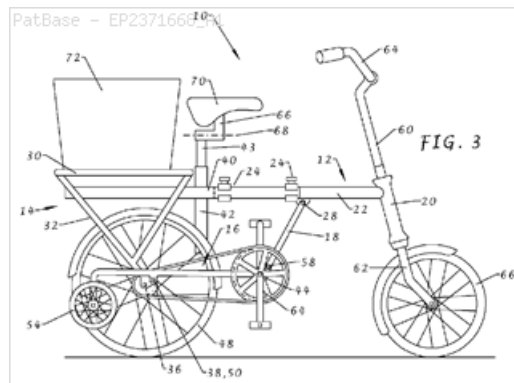
Family:	Publication number	Publication date	Application number	Application date
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EP2371668 A1	20111005	EP20110159405	20110323
GB201005193 A0	20100512	GB20100005193	20100329
GB2479123 A1	20111005	GB20100005193	20100329
GB2479123 B2	20131016	GB20100005193	20100329

Probable Assignee: BUSH EDMUND H
Assignee(s):(std): BUSH EDMUND H ; BUSH EDMUND HELMUTH
Assignee(s): EDMUND HELMUTH BUSH
Inventor(s):(std): BUSH EDMUND HELMUTH
Inventor(s): EDMUND HELMUTH BUSH
Agent(s): TARGETT KENNETH STANLEY
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
International class (IPC 8-9): B62B3/00 B62B3/02 B62K13/00 B62K13/08 B62K15/00 B62K19/46 B62K3/04 B62K5/04 (Advanced/Invention)
CPC: B62K3/04 B62B3/027 B62B2206/006 B62B2206/02 B62B2301/08 B62K13/00 B62K13/08 B62K15/00 B62K19/46 B62K2015/005 B62B3/00
European class: B62B3/02S B62K13/00 B62K13/08 B62K15/00 B62K19/46 B62K3/04 L62B206/00C L62B206/02 L62B301/08 L62K15/00D
[Classification Explorer](#)
Cited documents: WO9951485 A1, EP2295317 A2,
DE202004006563 U1
CN101870321 A, CN101870317 A, CN101323341 A,
Forward Citations: WO17137574, WO15026291, EP3205566, CN106218790, CN103963896, CN103963896, CN103183096, CN103183096,

Abstract:

The cycle frame can be transformed between a cycling configuration and a compacted configuration. The frame comprises: a rear frame portion (14) on which at least one rear wheel (48) can be mounted; a front frame portion (12) having a steering head (20) for a steering column (60); an arrangement (22,24,40) connecting the front and rear frame portions together for sliding movement between the cycling configuration and the compacted configuration in which the steering head is closer to the rear wheel axis than in the cycling configuration; a lower frame portion (16) having a bottom bracket shell (44) for a crankset (64), the lower frame portion (16) being pivotally connected to the rear frame portion adjacent the rear wheel axis; and a linkage (18) pivotally connected to the lower frame portion adjacent the bottom bracket and to the front frame portion, such that the linkage holds the bottom bracket at a higher position in the compacted configuration than in the cycling configuration so that fouling of the front wheel with the bottom bracket can be avoided when in the compacted configuration.



42) Family number: 33547292 (US2006237947A)

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Title: TRICYCLE PUSH HANDLE
Priority: US20050113588 20050425 CA20062545002 20060425
Family:

Publication number	Publication date	Application number	Application date
CA2545002 AA	20061025	CA20062545002	20060425
CN1861465 A	20061115	CN200610089880	20060425
EP1717140 A2	20061102	EP20060113098	20060425
HK1098112 A1	20070713	HK20070104396	20070425
HK1098112 A3	20070713	HK20070104396	20070425
JP2006306386 A2	20061109	JP20060120312	20060425
TW200637763 A	20061101	TW20060114654	20060425
US2006237947 AA	20061026	US20050113588	20050425
US7222871 BB	20070529	US20050113588	20050425

Probable Assignee: RADIO FLYER INC
Assignee(s):(std): MICHELAU FREDERICK ; RADIO FLYER INC ; SCHLEGEL THOMAS
Assignee(s): NORTHERN TRUST CO ADMINISTRATIVE AGENT AS
Inventor(s):(std): MICHELAU FREDERIK ; SCHLEGEL THOMAS ; THOMAS MICHELAU FREDERICK SCHL ; MICHELAU FREDERICK
Inventor(s): MICHELAU FREDERICK SCHLEGEL THOMAS ; THOMAS SCHLEGEL ; FREDERICK MICHELAU

Agent(s): SIM AND MCBURNEY; ORIENTAL INTELLECTUAL PROPERTY SERVICES CO; ONO SHINJIRO; SHAMOTO ICHIO; KOBAYASHI YASUSHI; TOMITA HIROYUKI; CHIBA AKIO; TOTSUKA KIYOTAKA; PATENT GROUP ATTN J KENNETH JOUNG

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU

International class (IPC 8-9): B62B9/00 B62K27/12 B62B9/20 B62H1/10 B62H7/00 B62J B62J39/00 B62J99/00 B62K15/00 B62K9/02 (Advanced/Invention); B62B9/00 B62H1/00 B62H7/00 B62J99/00 B62K15/00 B62K9/00 (Core/Invention)

CPC: B62H7/00 B62K9/02

European class: B62H7/00 B62K9/02

US class: 280/293 280/304 280/304.5 280/47.315 280/47.371 280/655 280/655.1

JP class F-Term: 3D011 3D011/AE05 3D011/AE11 3D012 3D012/BA02 3D212 3D212/BA02

JP class F-Index: B62K15/00 B62K9/02

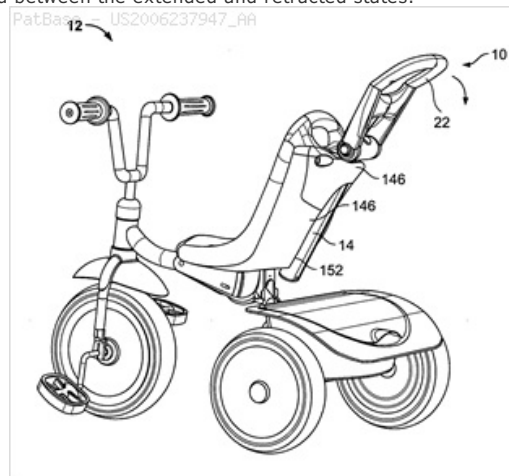
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Forward Citations: WO10144436, USD604777, USD582488, USD571866, US9630463, US9365256, US9227534, US9022406, US8740236, US8656917, US8567803, US8522656, US8517406, US8132289, US7658252, US2018050748, US2015137484, US2014166397, US2012181773, US2011266767, US2011126843, US2010308561, US2009241614, US2009235796, US2009008164, US2008143067, TWI558606, TWD133967, TWD133215, KR200481316, KR200464736, JP2011084244, FR2909970, DE202010009012, DE202009003998, CN102211610,

Abstract:

A push handle for a child's vehicle has an elongated body with at least two elongated tubes of different diameters configured in a telescoping relation where the tube(s) of smaller diameters are slidable within the tube(s) of larger diameters between an extended state and a retracted state. The tubes include a top tube with a top end and a bottom tube. The bottom tube is fixed to the child's vehicle. A grip is mounted on the top end of the top tube for gripping by a user's hand. A locking mechanism is disposed within the body for locking the tubes in either the extended state or the retracted state. A release device is disposed on the body and activated for remotely unlocking the locking mechanism so that the body may be moved between the extended and retracted states.



43) Family number: 50470295 (US2015158386A)

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Title: FOLDABLE, ULTRA-LIGHTWEIGHT TRICYCLE HAVING AN ELECTRIC MOTOR

Priority: FR20100002863 20100707 EP20110751622 20110707 WO2011FR00400 20110707

Family:

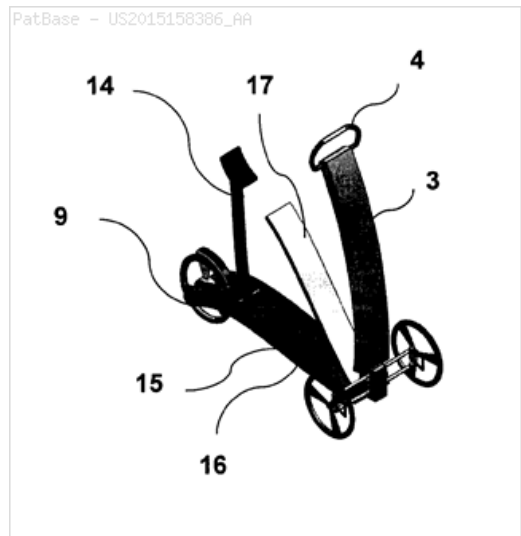
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CN103796910 A	20140514	CN201180072158	20110707
CN103796910 B	20170215	CN201180072158	20110707
DE602011043379 D1	20171221	DE201160043379T	20110707
EP2729350 A2	20140514	EP20110751622	20110707
EP2729350 B1	20171115	EP20110751622	20110707
ES2657951 T3	20180307	ES20110751622T	20110707
FR2962403 A1	20120113	FR20100002863	20100707
FR2962403 B1	20150327	FR20100002863	20100707
IN00152MN2014 A	20141121	IN2014MN00152	20140124
JP2014520701 T2	20140825	JP20140517864T	20110707
JP5829749 B2	20151209	JP20140517864T	20110707
KR20140053176 A	20140507	KR20147003218	20110707
PT2729350 T	20180209	PT20110751622T	20110707
RU2014104249 A	20150820	RU20140104249	20110707
RU2591117 C2	20160710	RU20140104249	20110707
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TN2014000005 A1	20150701	TN20140000005	20140106
US2015158386 AA	20150611	US20110130938	20110707
US9283848 BB	20160315	US20110130938	20110707
WO12004477 A2	20120112	WO2011FR00400	20110707

Probable Assignee: RAOUL PARIENTI
Assignee(s):(std): PARIENTI RAOUL ; PARIENTI RAUL ; RAOUL PARIENTI
Inventor(s):(std): PARIENTI RAOUL ; PARIENTI RAUL ; RAOUL PARIENTI
Agent(s): MAIWALD PATENTANWALTS U RECHTSANWALTSGESELLSCHAFT MBH; ISERN JORGE; RAOUL PARIENTI; NOGUCHI KENSHO; SEIRYU PATENT PROFESSIONAL CORP; OGAWA SHIN ICHI; JAMES C
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 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 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
International class (IPC 8-9): B60K31/02 B60L11/18 B62D61/06 B62J99/00 B62K11/00 B62K15/00 B62K3/00 B62K5/02 B62K5/027 B62K5/04 B62K5/05 (Advanced/Invention); B60K31/00 (Advanced/Non-invention); B62K15/00 B62K3/00 B62K5/04 (Core/Invention)
CPC: B60K31/02 B62K5/027 B62K2202/00 B60K2031/0091 B62K15/006 B62K3/002 B62K5/05 B62K2204/00 Y02T10/7005 B60L50/52
European class: B62K15/00F B62K3/00B B62K5/05 L62K204/00
US class: 1/1 180/178
JP class F-Term: 3D011 3D011/AA03 3D011/AD05 3D011/AD19 3D012 3D115 3D212 3D212/BA03 3D212/BA04
JP class F-Index: B62J99/00/J B62J99/00/K B62K15/00 B62K5/02/C B62K5/02/D B62K5/027 B62K5/05

[Classification Explorer](#)

Cited documents: WO0236419 A1, WO0236419 A1, WO0074622 A1, WO0074622 A1, US8695999 BB, US8500147 BB, US8464822 BB, US8170780 BB, US7963352 BB, US7845443 BB, US7810591 BB, US7690447 BB, US7273116 BB, US7192040 BB, US7040443 BA, US7004271 BA, US6907949 BA, US6651766 BB, US6561294 BA, US6367817 BA, US6345678 BA, US6302230 BA, US5830313 A, US5657828 A, US4874055 A, US4354569 A, US4087106 A, US2015122566 AA, US2015068828 AA, US2015035257 AA, US2014265223 AA, US2014090910 AA, US2013300080 AA, US2013175103 AA, US2013056950 AA, US2012175179 AA, US2010225085 AA, US2009255747 AA, US2009160150 AA, US2009160150, US2007158117 AA, US2006266570 AA, US2006054370 AA, US2003029652 AA, US2002063006 AA, US2002000339 AA, US0160150, TWM378160 Y, RU62887 U, JP59142186 U, JP2011093433 A2, JP2011093433, JP2006062573, JP2005263152, JP2005255074, JP2005193835, JP2005022631, JP2003104264, JP2002220080, JP2002168023, GB2466241 A1, GB2466241 A1, EP1630081 A1, EP1630081 A1, EP1232938 A1, EP1232938 A1, EP0017913 A1, EP0017913 A1, CN203921057 U, CN203888953 U, CN203854800 U, CN1740039 A, CN1637388 A, CN101947990 A,
Forward Citations: WO14053713, USD842169, USD832930, USD832150, USD827035, USD774979, US9873476, US9272739, US10202161, US10016666, RU182761, KR101859425, JP6090125, JP2015096376, EP3210868,

Abstract:
Ultralight tricycle with electric engine including a base frame (15) fitted with two front wheels and one driving back wheel (9), an electric engine propelling the driving wheel, and one steering wheel (3) including a steering wheel (4) maneuvered by the user in order to control the steering and/or speed of the tricycle, the tricycle being designed to switch from the unfolded configuration allowing the user positioned on the base frame to ride the tricycle into a folded configuration enabling the user to seize the steering wheel in order to have the tricycle rolling on its two front wheels while keeping the back wheel away from the ground. The tricycle includes a tachymeter that measures the speed of the tricycle and one slowing down/braking command unit connected to the tachymeter and suited to command the transformation of the engine into a generator of electric current provided to a battery when the speed of the engine exceeds a preset speed ranging between 20 km/h and 30 km/h so that the tricycle slows down as a result of the engine being turned into a generator acts as a brake.



44) Family number: 55052305 (US2015158544A)

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Title: FREE-WHEELING, FREE-STEERING, FOLDABLE MULTI-STAGE TRICYCLE WITH A SINGLE-MOTION RELEASE MECHANISM
Priority: EP20120883966 20120903 WO2012IB54531 20120903
Family:

Publication number	Publication date	Application number	Application date
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AU2012388676 AA	20140306	AU20120388676	20120903
AU2012388676 BB	20170622	AU20120388676	20120903
BR112015004674 A2	20170704	BR20151104674	20120903
CN104661907 A	20150527	CN201280075594	20120903
CN104661907 B	20181002	CN201280075594	20120903
DE602012036486 D1	20170928	DE201260036486T	20120903
EP2892797 A1	20150715	EP20120883966	20120903
EP2892797 A4	20160831	EP20120883966	20120903
EP2892797 B1	20170823	EP20120883966	20120903
ES2643157 T3	20171121	ES20120883966T	20120903
IL225610 A0	20130930	IL20120225610	20120903
IL225610 A1	20170131	IL20120225610	20120903
JP2015526345 A2	20150910	JP20150529132	20120903
JP2015526345 T2	20150910	JP20150529132T	20120903
KR101956421 B1	20190308	KR20157008199	20120903
KR20150052173 A	20150513	KR20157008199	20120903
RU2015107012 A	20161020	RU20150107012	20120903
RU2605133 C2	20161220	RU20150107012	20120903
TR201715354 T4	20171221	TR20170015354T	20120903
US2015158544 AA	20150611	US20120824410	20120903
US9227686 BB	20160105	US20120824410	20120903
WO14033503 A1	20140306	WO2012IB54531	20120903

Probable Assignee: GALILEO TRIKES LTD

Assignee(s):(std): ENIGMA POP PRODUCTS AND GIFTS LTD ; GADI HERZEL ; GALILEO TRAJKS LTD ; GALILEO TRIKES LTD ; HERZEL GADI ; STANYETZKI YUVAL ; STENITZKY YUVAL ; YUVAL STENITZKY

Inventor(s):(std): STENITZKY YUVAL ; HERZEL GADI ; GADI HERZEL ; YUVAL STENITZKY

Inventor(s): STANYETZKI YUVAL

Agent(s): ASCOT MARTIN; STOLMAR AND PARTNER PATENTANWAELTE PARTG MBB; GALLO LUCA; ELZABURU SLP ELZABURU SLP; DR MARK FRIEDMAN LTD; AYLIN SENER; MARK M

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 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

International class (IPC 8-9): A63H17/18 B62H7/00 B62K B62K13/04 B62K15/00 B62K21/02 B62K21/12 B62K21/18 B62K21/22 B62K23/06 B62K9/02 (Advanced/Invention); B62K (Subclass/Invention)

CPC: B62K9/02 B62K23/06 B62K21/02 B62K21/12 B62K2015/001 B62K15/008 B62K13/04 B62H7/00 B62K21/18 B62K21/22 B62K15/00

US class: 1/1 280/259 280/278 280/287

JP class F-Term: 3D011 3D011/AE02 3D011/AE03 3D011/AE05 3D011/AE06 3D212 3D212/BA06 3D212/BA14

JP class F-Index: B62K15/00 B62K9/02

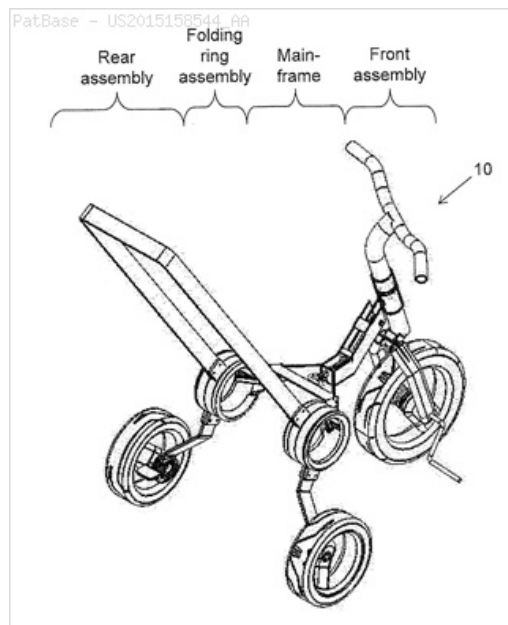
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Cited documents: WO12010221 A1, WO12010221 A1, WO07038951 A1, WO07038951 A1, US8313117 BB, US6644676 BB, US6644676 BB, US6575486 BB, US6575486 BB, US6386566 BA, US5785338 A, US5785338 A, US2013056949 AA, US2011278815 AA, US2011278815 AA, US2008061528 AA, US2004061304 AA, US2004061304 AA, US2003160419 AA, US2003098567 AA, US2003098567 AA, RU2025386 C1, JP5636137 B2, JP3784818 B2, JP3141910 U, JP3141910 B2, JP3083925 U, JP3062591 U, JP3062591 U, JP3062591 B2, JP2014527493 T2, JP2014527493 A2, JP2013028247 A2, JP2006082777 A2, JP2006082777 A2, GB1432583 A1, GB1432583 A, FR2843937 A1, FR2843937 A1, EP2637917 B1, EP2637917 A1, EP2580109 B1, EP1535827 B1, EP1535827 A2, CN2931261 Y,

Forward Citations: WO18051206, WO17182947, WO16000317, US9981679, US2018050748, RU180694, CN105774998, CN105774998, CN104709416,

Abstract:

A foldable tricycle, including a front wheel assembly; a mainframe, latched to the front wheel assembly via a front mount; a pair of rear-wheel assemblies; a pair of folding ring assemblies coupling the rear-wheel assemblies to the mainframe; and a mechanism for simultaneously unlocking the pair of ring assemblies and unlatching the mainframe from the front wheel assembly so that a single pulling motion on the mechanism unlocks and unlatches the foldable tricycle from an assembled state thereof so as to be converted to a folded state thereof.



45) Family number: 53202312 (WO13036990A2)

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Title: AN INFANT'S WHEELED VEHICLE

Priority: AU20110903699 20110912

Family:	Publication number	Publication date	Application number	Application date
	WO13036990 A2	20130321	WO2012AU01087	20120911
	WO13036990 A3	20140925	WO2012AU01087	20120911

Probable Assignee: FUNTASTIC LTD

Assignee(s):(std): FUNTASTIC LTD ; NIELSEN JOHN

Assignee(s): FUNTASTIC LIMITED

Inventor(s):(std): NIELSEN JOHN

Agent(s): FREEHILLS PATENT ATTORNEYS

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM 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

International class (IPC 8-9): B62K15/00 B62K19/32 B62K21/00 B62K9/02 (Advanced/Invention)

CPC: B62K9/02 B62K15/008

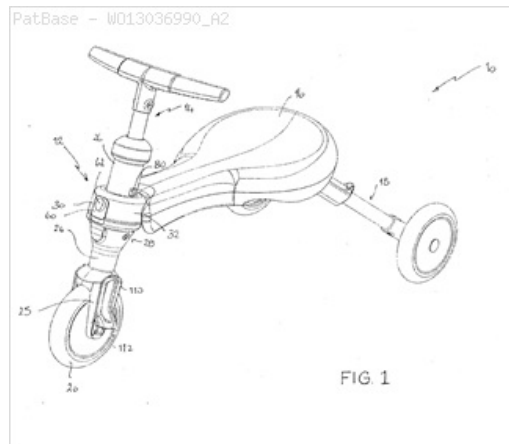
[Classification Explorer](#)

Cited documents: US2009108558 AA, EP1582447 A2, DE29822875 U1,

Forward Citations: WO16101893, CN107226160, CN105752242, CN104276240,

Abstract:

A folding wheeled vehicle (10) for use by an infant is foldable from an operative configuration to a stowage configuration. The vehicle (10) and comprises a body (16) defining a seat for the infant and wheel assemblies (12, 18) including at least a front wheel assembly (12) having a front wheel (20) and one or more rear wheel assemblies (18) each having at least one wheel. The wheel assemblies (12, 18) are movable from the operative configuration where the wheels (20) are ground engageable to the stowage configuration. The front wheel assembly (12) further comprises a steering limiter (64, 68) for limiting the steering arc of the vehicle. The steering limiter (64, 68) is rendered ineffective when the front wheel assembly (12) moves from the operative configuration to the stowage configuration. This enables the front wheel (20) to lie in a substantially flat configuration against the body (16) in the stowage configuration. The vehicle (10) may also have stowable footrests (110).



46) Family number: 43630324 (WO10139970A1)

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Title: CHILD'S BIKE BICYCLETTE POUR ENFANT

Priority: GB20090009696 20090605 GB20090010448 20090617 GB20090019262 20091103

Family:

Publication number	Publication date	Application number	Application date
GB200909696 A0	20090722	GB20090009696	20090605
GB200910448 A0	20090729	GB20090010448	20090617
WO10139970 A1	20101209	WO2010GB50115	20100126

Probable Assignee: SHANNON GARY M

Assignee(s):(std): SHANNON GARY M

Inventor(s):(std): SHANNON GARY M

Agent(s): MARKS AND CLERK LLP

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 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 TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC): B62J1/16 B62K9/02 (Advanced/Invention)

8-9):

CPC: B62J1/16 B62K9/02

European class: B62J1/16 B62K9/02

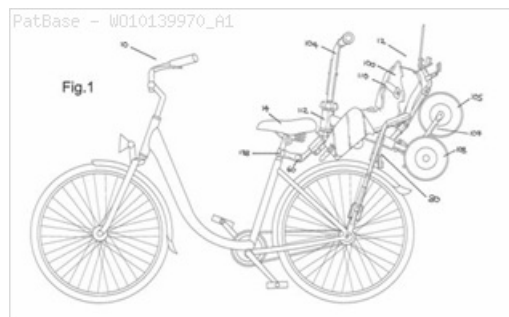
[Classification Explorer](#)

Cited documents: WO9955572 A1, JP2002137774 A2, DE20114926 U1, BE1014981 AD,

Forward Citations: DE102017106144,

Abstract:

The invention relates to a child's bike (12) and child seat. The child's bike (12) is adapted for use as a child seat on a bicycle (10) and is convertible from a child's trike to a child seat and back again. The child's bike (12) comprises a base to which is mounted a seat (100), a front wheel (105), at least one rear wheel (108) and handle bars (104). The base is adapted to be mounted to an adult bicycle (10) whereby the seat forms part of a child seat on the adult bicycle. At least one support post (60) engages with the child's trike (12) to detachably mount the child's bike to the bicycle.



47) Family number: 30257325 (US2004007841A)

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Title: CHILDREN TRICYCLE

Priority: US20020191069 20020710

Family:

Publication number	Publication date	Application number	Application date

Probable Assignee: FAR GREAT PLASTICS INDUSTRIAL CO LTD

Assignee(s): CHEN TING HSING ; FAR GREAT PLASTICS INDUSTRIAL CO LTD

Inventor(s):(std): CHEN TING HSING

International class (IPC 8-9): B62K9/02 (Advanced/Invention);
B62K9/00 (Core/Invention)

International class (IPC 1-7): B60G1/00

CPC: B62K9/02

European class: B62K9/02

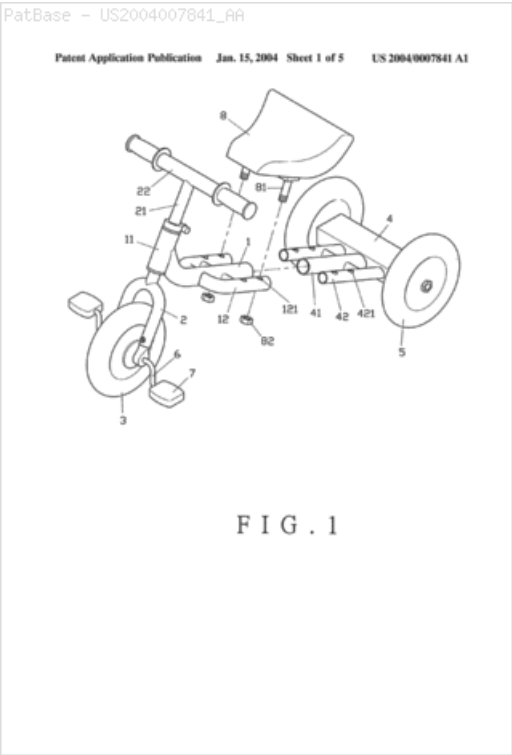
US class: 280/87.1

[Classification Explorer](#)

Cited documents: USD334157 S1, US6601862 BB, US6152473 A, US5499834 A, US4657270 A, US4647060 A, US4546991 A, US4457529 A, US4079957 A, US3658354 A, US2768834 A, US2660442 A,

Forward Citations: EP1674385,

Abstract:
A structure of a children tricycle having respectively provided to both sides of its crossbar a hollow sleeved tube to receive insertion by a central tube and two sleeved tubes connected to both sides of the central tube extending from a rear wheel frame; at least one perforation is punched respectively in each of both sleeved tubes from the crossbar and both sleeved tubes from the central tube of the rear wheel frame for two fixation bolts at the bottom of a seat to penetrate through the overlapped perforations from the sleeved tubes of the crossbar and those connected to the central tube from the rear wheel frame when the central tube together with its both sleeved tubes being inserted into the crossbar and both sleeved tubes of the crossbar, and to expose below the sleeved tubes of the crossbar to be locked up each with nuts to form an integral tricycle or both bolts being loosened up to disengage the seat from the crossbar and to separate the tricycle into three parts, the seat, the crossbar including the front wheel and the rear wheel frame for storage.



48) Family number: 12283326 (US5474144A)

© PatBase

Title: TWIN-WHEEL MOTORCAR WITH DIFFERENTIAL HEIGHT AND SPEED MECHANISMS

Priority: US19910662712 19910301 US19920852002 19920316 US19930143129 19931026

Family:

Publication number	Publication date	Application number	Application date
US5474144 A	19951212	US19930143129	19931026

Probable Assignee: TARNG MIN M

Assignee(s):(std): TARNG MIN M

Inventor(s):(std): TARNG MIN M

International class (IPC 8-9): B62D61/04 B62K5/00 B62K5/08 B62M7/00 (Advanced/Invention);
B62D61/00 B62K5/00 (Core/Invention)

International class (IPC 1-7): B60K17/16

CPC: B62K5/08 B62D61/04 B62K5/10 F16H48/12 Y10T74/19005

European class: B62D61/04 B62K5/08 B62K5/10 B62M7/00 R16H48/12

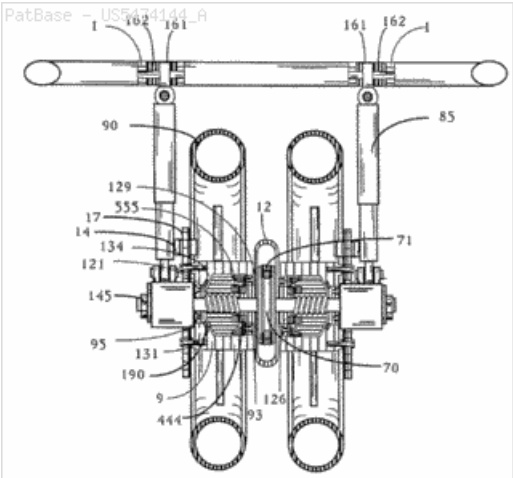
US class: 100/264 100/377 100/9.26 180/264 180/377 180/76 180/9.26 280/763.1 296/107 296/107.09 296/155 296/216.02 296/216.04 297/354.13 71/650 74/650

[Classification Explorer](#)

Cited documents: US4548096 A, US4316520 A, US4183418 A, US2838124 A, US2415596 A, US2286575 A,

Forward Citations: US9284009, US8672339, US8113554, US7784586, US7699347, US7695018, US7021722, US6116645, US2013119631, US2010109356, US2009058136, US2009058113, US2006037813, US2006001313, US10167035, US10076929,

Abstract:
The twin-wheel motorcar has twin wheels with single side wheels driving capabilities. Twin-Wheel Motorcar has sliding doors, top cover, emergency parking pad, single arm differential height steering shock-tube mechanism and in-hub non-divided axle friction-free non-contact force differential speed driving mechanism.



49) Family number: 32585327 (US2006022434A)

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Title: JOGGING STROLLER HAVING CAPACITY TO BE PEDALLED BY A RIDER

Priority: US20040598139P 20040731 US20050189495 20050726

Family:	Publication number	Publication date	Application number	Application date
	US2006022434 AA	20060202	US20050189495	20050726

Probable Assignee: CAPELL JANET
Assignee(s):(std): CAPELL JANET
Inventor(s):(std): CAPELL JANET
Agent(s): MICHAEL E MCKEE ATTORNEY AT LAW

International class (IPC 8-9): B62M9/04 (Advanced/Invention); B62M9/00 (Core/Invention)

CPC: B62B7/00 B62B7/044 B62K9/02

European class: B62B7/00 B62K9/02 L62B7/04D

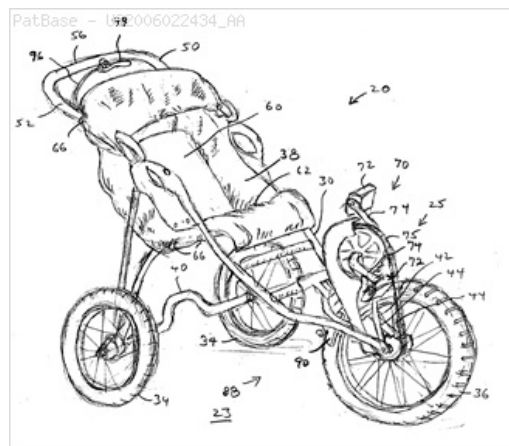
US class: 280/210 280/642

[Classification Explorer](#)

Cited documents: US7261308 BB, US7249779 BB, US7000935 BB, US6918606 BB, US6874802 BB, US6854754 BA, US6830260 BB, US6817451 BA, US6685206 BA, US6666470 BB, US6302421 BA, US6161847 A, US6152476 A, US6106440 A, US5904363 A, US5536033 A, US5280937 A, US5028066 A, US4497502 A, US4152005 A, US2986400 A, US2511169 A,

Forward Citations: US2007080519,

Abstract:
A jogging stroller for carrying a rider as an individual jogs behind and pushes the stroller includes a pedal assembly connected in driving relationship with at least one wheel of the stroller which permits the rider to pedal the stroller along a road surface as the stroller is pushed along the road surface by the individual.



50) Family number: 19499329 (GB716931A)

© PatBase

Title: Improvements in or relating to juvenile tricycles

Priority: GB19520016723 19520703

Family:

Publication number	Publication date	Application number	Application date
GB716931 A	19541020	GB19520016723	19520703

Probable Assignee: J A PHILLIPS AND COMPANY LTD

Assignee(s):(std): J A PHILLIPS AND COMPANY LTD

Assignee(s): J A PHILLIPS AND CO LTD ; J A PHILLIPS AND COMPANY LIMITED

Inventor(s):(std): MILLWARD EDWARD ARTHUR

International class (IPC 8-9): B62K9/02 (Advanced/Invention);
B62K9/00 (Core/Invention)

International class (IPC 1-7): B62K9/00

CPC: B62K9/02

European class: B62K9/02

[Classification Explorer](#)

Forward Citations: GB2256838,

Abstract:

716,931. Control handles for tricycles. PHILLIPS, and CO.. Ltd., J. A. June 22, 1953 [July 3. 1952], No. 16723/52. Classes 136(1) and 136(3) [Also in Group XXXII] A pivoted telescopic control handle for juvenile tricycles comprises a tube d slidable on a rod a which rod has at its end a swivelling connection with a lug k pierced at n to fit over a bolt which secures the saddle to the seat pillar, means being provided for allowing the two parts a, d to be locked together in both the extended and telescoped positions. To enable the parts a, d to be locked in the extended position the tube d is provided with a bush f having an internal screw thread g cut complementary to an external screw thread on a collar i which is secured to the rod a. When telescoped the parts a, d of the handle may be locked together by means of a screw-threaded extension j on the rod a being screwed into a screw-threaded hole in a knob e fitted to the tube d. The telescoped handle may be swung down to lie alongside the saddle tube and held in position by a spring clip

