

27 Documents

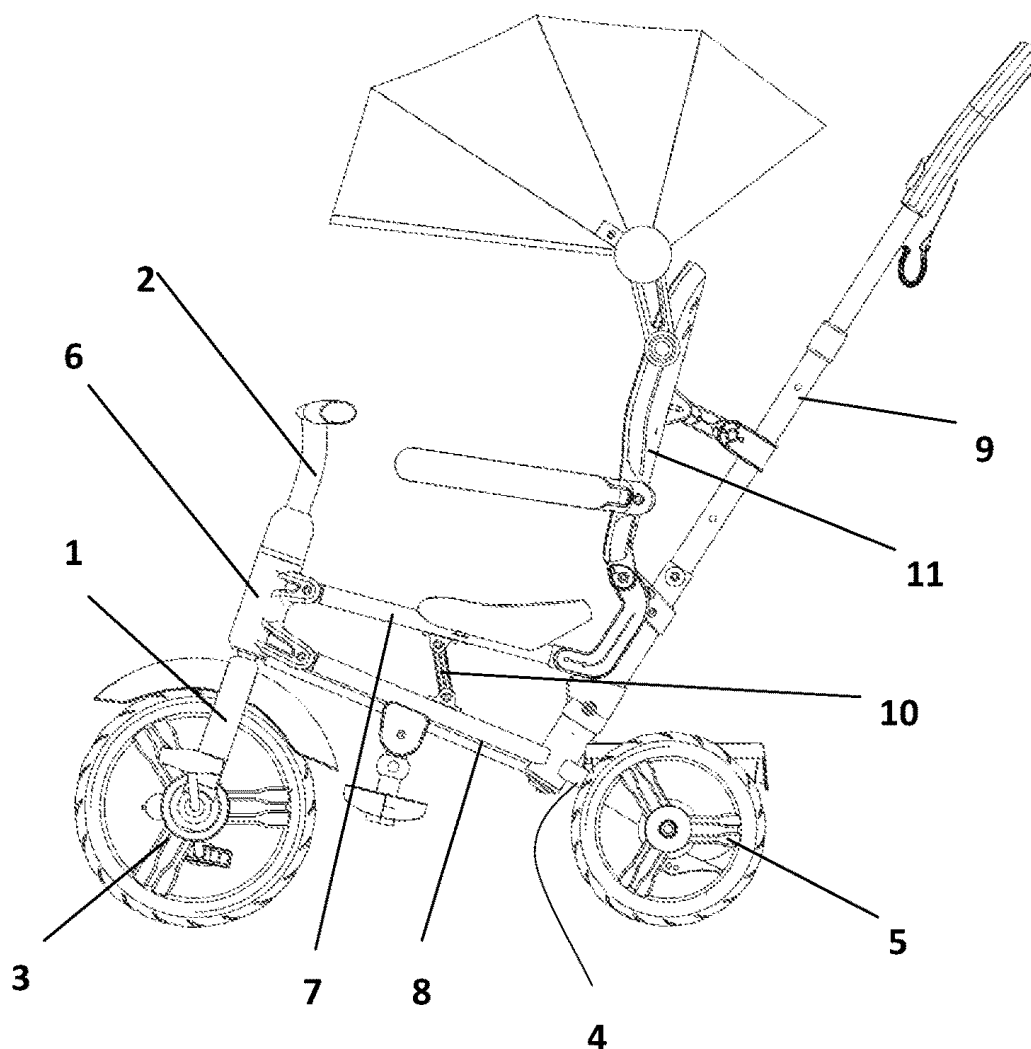
Publication numbers	Title	Current assignees
CN105480342 A	Foldable child's tricycle and folding method thereof	JIAXING XIAOHUZI BIKE FACTORY
US6152473 A	Folding collapsible baby tricycle	SHIH MING HE
US20140103616 A1	Foldable tricycle	RADIO FLYER
US9039025 B1	Foldable children's tricycle	SHIH MING-HE
US2194161 A	Foldable tricycle	COBB CHESTER L
US2619364 A	Folding tricycle	ROBERT CARSON SAMUEL
IL-225610 A	Free-wheeling, free-steering, foldable multi-stage tricycle with a single-motion release mechanism	GALILEO TRIKES
DE202004006903 U1	Foldable frame for a tricycle, a scooter or or a child's bicycle	KETTLER INTERNATIONAL
US20050110239 A1	Folding riding vehicle	RADIO FLYER
US20030098567 A1	Collapsible tricycle for the use of young children	JIN SUN GEE PLASTICS
KR200298562U Y1	Foldable tricycle	FRIENDLY TOYS
CA2484434 A1	Collapsible vehicle	PRIDE MOBILITY
CN102951232 A	Tricycle	SMART TRIKE MNF PTE
US20030080533 A1	Folding structure of a children tricycle	FU KUANG HUAN
WO200738951 A1	Size-reducible folding tricycle for children	ARTSANA
KR20170118368 A	Folding apparatus for cycle	SAM CHULY BICYCLE
US20140097594 A1	Foldable tricycle with seat actuation	HUFFY
TW-573658U U	Foldable tricycle	TAIWAN PAIHO
DE2804993 A1	Compact folding tricycle - has scissors shaped main folding frame with extending column for front forks support	AMPAGLAS
US8348294 B1	Method of travel using a folding vehicle having a chassis that functions as a protective, carry-on casing	JAPAN DISPLAY, ...
WO2017182947 A1	A lockable folding mechanism	SMART TRIKE MNF PTE
US4457529 A	Folding tricycle	SHAMIE LOUIS, ...
GB201105919 D0	Collapsible recumbent tricycle	BALL ALAN, ...
GB200201946 D0	Child tricycle folding structure	FAR GREAT PLASTICS INDUSTRIAL
CN105836018 A	Child's folding tricycle	TAICANG CHEZHONGBAO LEISURE ARTICLES
US20040066018 A1	Toddler tricycle folding footboard structure	HONG MOU ENTERPRISE
US6062581 A	Leaning recumbent tricycle	STITES; WILLIAM J.

Family 1/27 - FAMPAT - ©Questel

Title

(EP3210870)

Foldable child's tricycle and folding method thereof

Images**Publication data including kind & date**

CN105480342	A	2016-04-13	CN105480342
HK1217187	A1	2016-12-30	HK1217187
US9580131	B1	2017-02-28	US9580131
JP6152450	B1	2017-06-21	JP6152450
CA3010736	A1	2017-07-27	CA3010736
KR20170087004	A	2017-07-27	KR20170087004
WO2017124635	A1	2017-07-27	WO2017124635
JP2017128319	A	2017-07-27	JP2017128319
IL252993	A	2017-07-31	IL-252993
EP3210870	A1	2017-08-30	EP3210870
KR101809357	B1	2018-01-18	KR101809357
IL252993	B	2018-02-28	IL-252993



CN105480342	B	2018-03-02	CN105480342B				
EP3210870	B1	2018-06-13	EP3210870				
AU2016388647	A1	2018-07-12	AU2016388647				
BR112018014076	A1	2018-07-17	BR112018014076				
CO2018006970	A2	2018-07-19	CO2018006970				
DK3210870	T3	2018-08-06	DK3210870T				
CL2018001863	A1	2018-09-14	CL1863201800				
ES2686970	T3	2018-10-23	ES2686970				
PL3210870	T3	2018-11-30	PL3210870				
BR112018014076	A2	2018-12-11	BR112018014076				
AU2016388647	B2	2019-02-07	AU2016388647				
RU2681459	C1	2019-03-06	RU2681459				

Abstract

(EP3210870)

A foldable child's tricycle and a folding method thereof are provided, wherein the foldable child's tricycle comprises a body frame and a handlebar (2) arranged in the front of the body frame; wherein the body frame includes a head tube (6), an upper connecting rod assembly (7), a lower connecting rod assembly (8), a push rod assembly (9), and a supporting rod (10); the upper connecting rod assembly (7), the head tube (6), the lower connecting rod assembly (8), and the supporting rod (10) form a four-bar linkage; the push rod assembly (9) is rotatably connected to the upper connecting rod assembly (7), and is fixed to or separated from the lower connecting rod assembly (8) via a locking device; when folding, firstly unlocking the locking device; then pulling the push rod assembly (9) upwardly such that the push rod assembly (9) is separated from the lower connecting rod assembly (8); finally turning over the push rod assembly (9) forwardly, and the folding volume thereof is small.

Inventors

WU CHUNHUA

Latest standardized assignees - inventors removed

JIAXING XIAOHUZI BIKE FACTORY

Family 2/27 - FAMPAT - ©Questel

Title

(US6152473)

Folding collapsible baby tricycle

Images

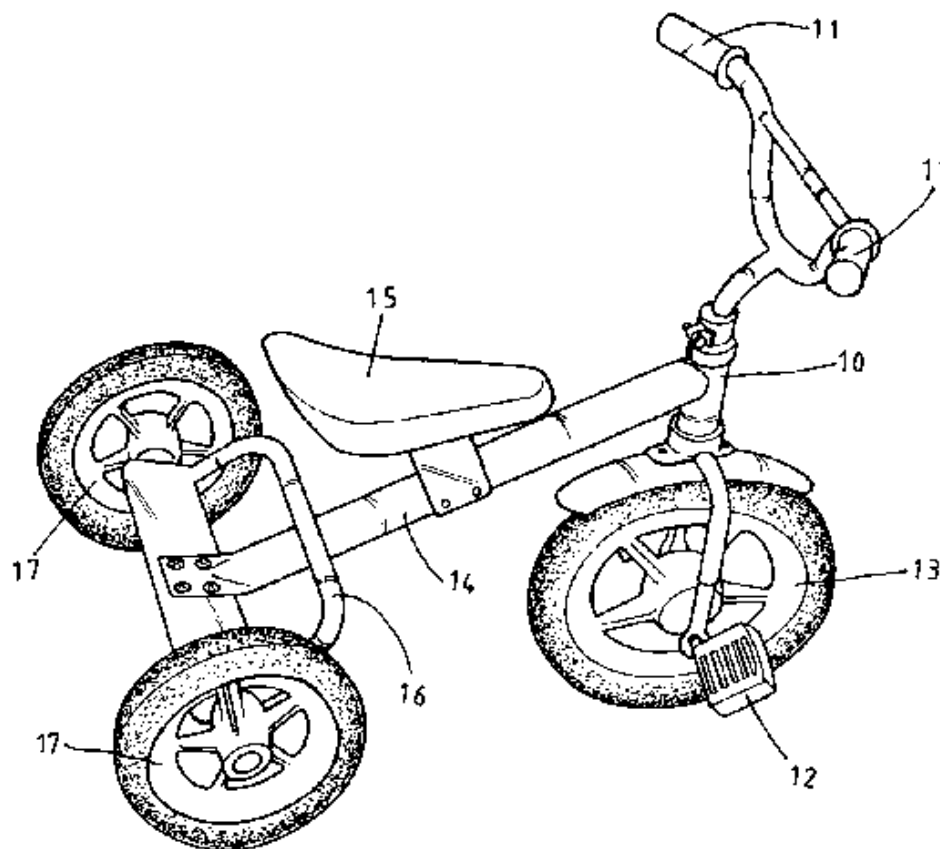


Fig.1(Prior Art)

Publication data including kind & date

[US6152473](#)

A 2000-11-28 US6152473



Abstract

(US6152473)

A baby tricycle, which includes a head unit holding a pair of handlebars, a front wheel, and a pair of pedals, a body unit having a seat frame, a saddle mounted on the seat frame, and a rear wheel frame holding a pair of rear wheels, and a folding collapsible connecting frame unit coupled between the head unit and the body unit, the folding collapsible connecting frame unit including rear tubular connecting rod having a rear end welded to the rear wheel frame of the body unit and a front end pivoted to the rear end of the seat frame, a link, and a front locating frame, the front locating frame having a front end fixedly connected to the head unit and a rear end coupled to the front end of the rear tubular connecting rod by the link and a coupling portion on the middle pivoted to the front end of the seat frame.

Inventors

SHIH WEN FU

Latest standardized assignees - inventors removed

SHIH MING HE

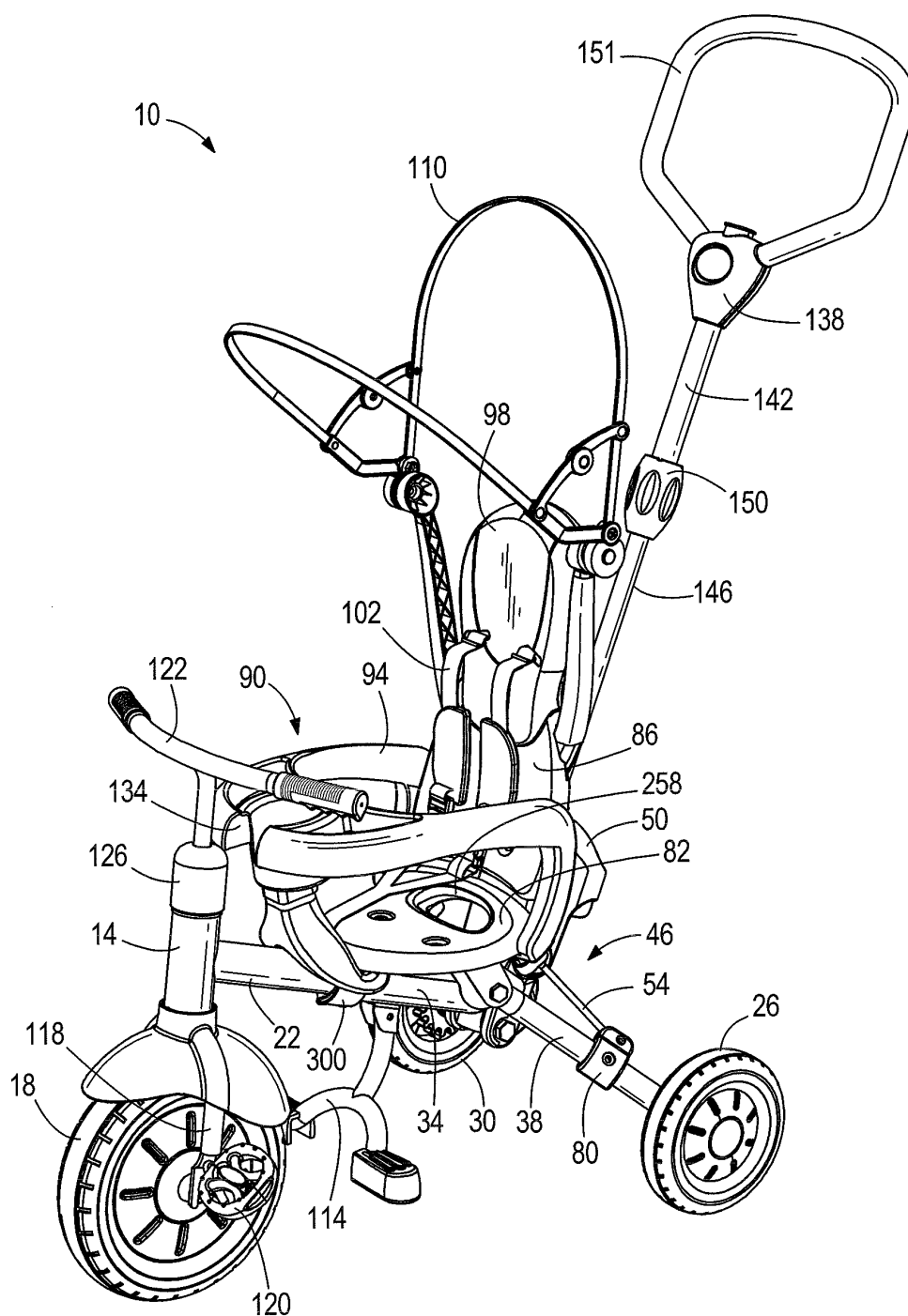
Family 3/27 - FAMPAT - ©Questel

Title

(WO201462650)

Foldable tricycle

Images



Publication data including kind & date

US20140103616

A1 2014-04-17

US20140103616

WO2014062650

A1 2014-04-24

WO201462650



TW201425125	A	2014-07-01	TW201425125				
US8844960	B2	2014-09-30	US8844960				
CN104736426	A	2015-06-24	CN104736426				
HK1211908	A1	2016-06-03	HK1211908				
CN104736426	B	2017-06-06	CN104736426B				
TWI606954	B	2017-12-01	TWI606954				

Abstract

(WO201462650)

A foldable tricycle that transitions between a use orientation, and a transport or storage orientation. The tricycle has a frame including a first end and a second end of the frame, a fork rotatably connected adjacent the first end of the frame, a front wheel rotatably connected to the fork, and a handlebar assembly coupled to the fork to allow for steering of the fork. The tricycle also has first and second rear wheels adjacent the second end of the frame in the use position.

Inventors

YOUNG MATTHEW EDWARD

SANDLIN RANDALL ALAN

BARTELS ROSS ELLIOT

SCHLEGEL THOMAS K

FITZWATER JASON

Latest standardized assignees - inventors removed

RADIO FLYER

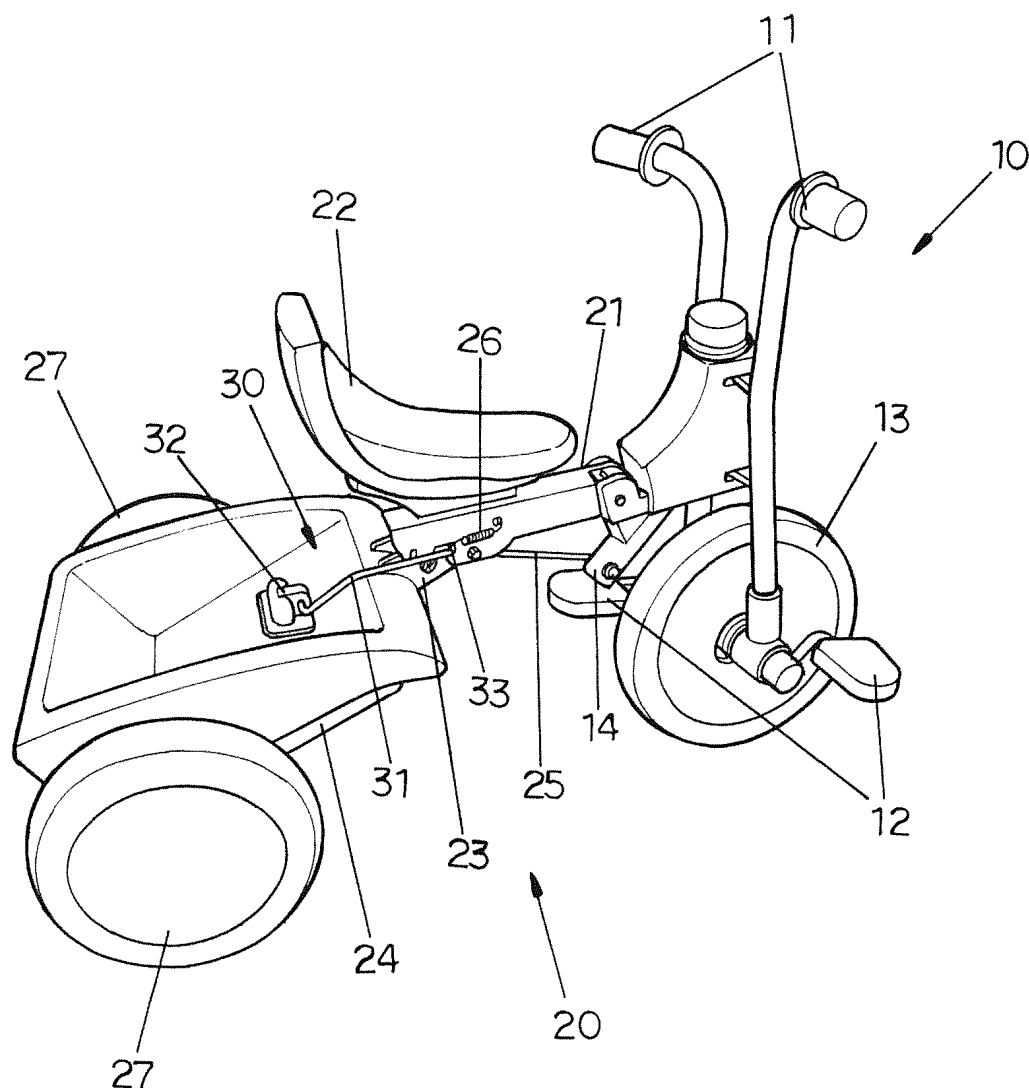
Family 4/27 - FAMPAT - ©Questel

Title

(US9039025)

Foldable children's tricycle

Images

**Publication data including kind & date**[US9039025](#)

B1 2015-05-26 US9039025

**Abstract**

(US9039025)

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.

Inventors

SHIH MING-HE

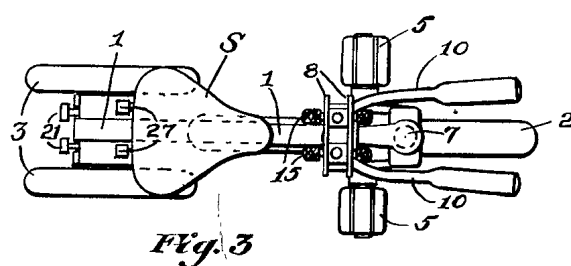
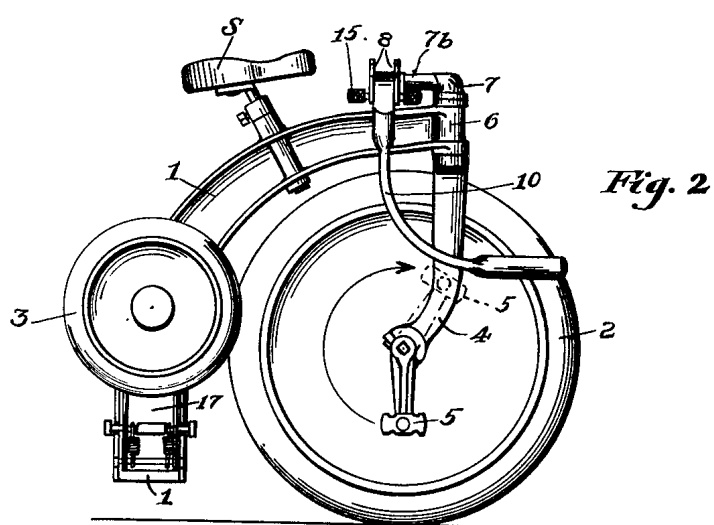
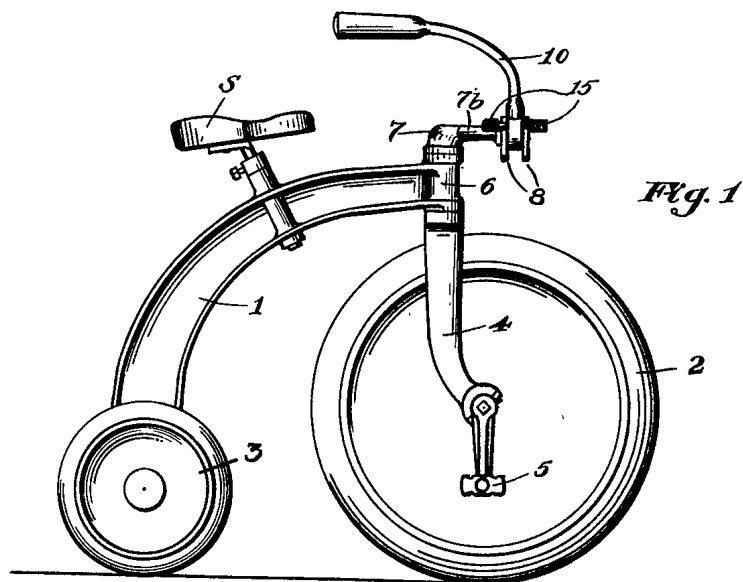
Family 5/27 - FAMPAT - ©Questel

Title

(US2194161)

Foldable tricycle

Images



Inventor,

Chester L. Cobb.

BY *Henry L. Cheney.*
Att'y.

Publication data including kind & date

[US2194161](#)

A 1940-03-19 US2194161



Inventors

COBB CHESTER L

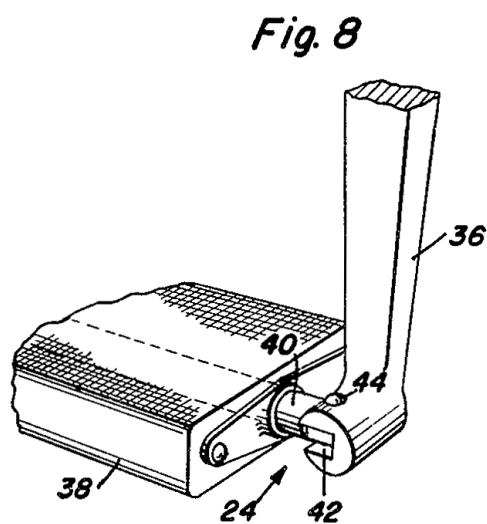
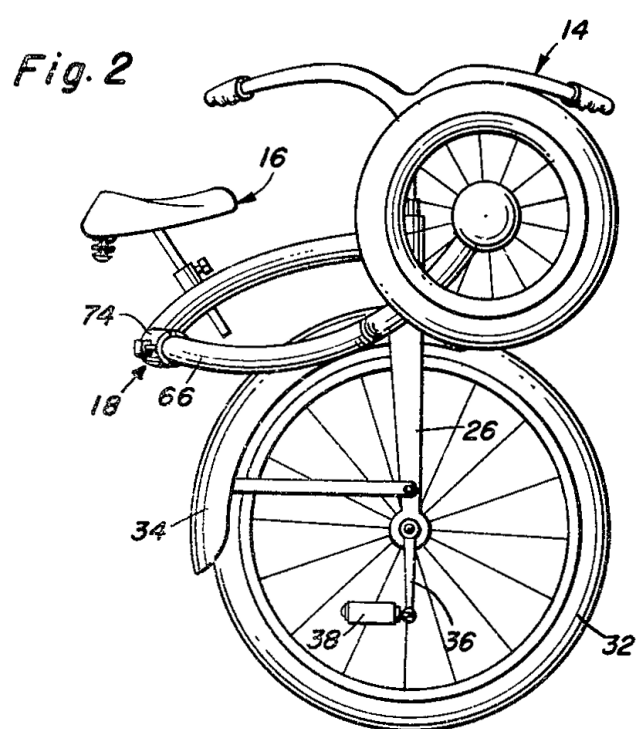
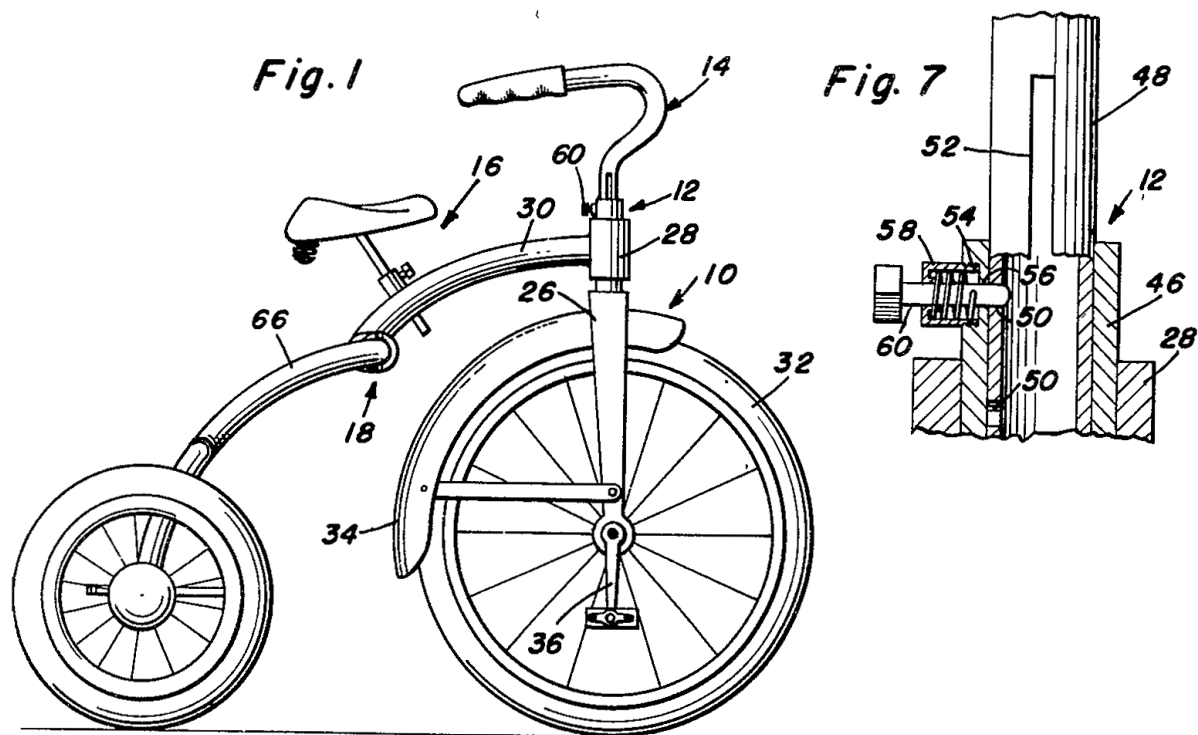
Family 6/27 - FAMPAT - ©Questel

Title

(US2619364)

Folding tricycle

Images



Samuel Robert Carson
INVENTOR.

BY *Alvanee A. O'Brien*
and Harvey B. Jacobson
Attorneys

Publication data including kind & date

[US2619364](#)

A 1952-11-25 US2619364

Inventors

ROBERT CARSON SAMUEL

Family 7/27 - FAMPAT - ©Questel

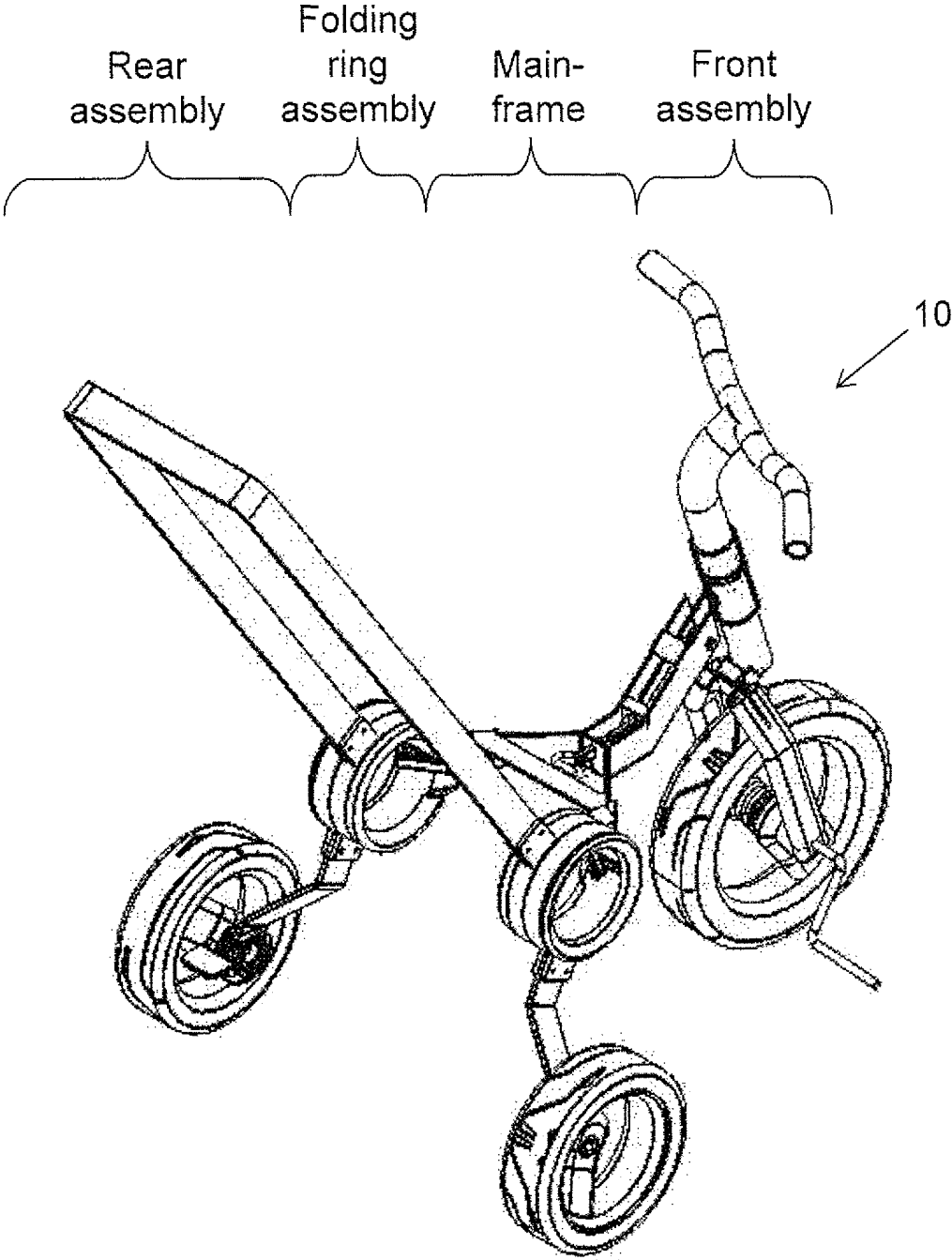
Title

(EP2892797)

Free-wheeling, free-steering, foldable multi-stage tricycle with a single-motion release mechanism



Images



Publication data including kind & date

IL225610	A	2013-09-30	IL-225610
WO2014033503	A1	2014-03-06	WO201433503
AU2012388676	A1	2015-03-26	AU2012388676
BR112015004674	A1	2015-04-22	BR112015004674
KR20150052173	A	2015-05-13	KR20150052173
CN104661907	A	2015-05-27	CN104661907
US20150158544	A1	2015-06-11	US20150158544
EP2892797	A1	2015-07-15	EP2892797
JP2015526345	A	2015-09-10	JP2015526345
US9227686	B2	2016-01-05	US9227686
EP2892797	A4	2016-08-31	EP2892797



RU2015107012	A	2016-10-20	RU2015107012				
RU2605133	C2	2016-12-20	RU2605133				
IL225610	B	2017-01-31	IL-225610				
AU2012388676	B2	2017-06-22	AU2012388676				
BR112015004674	A2	2017-07-04	BR112015004674				
EP2892797	B1	2017-08-23	EP2892797				
ES2643157	T3	2017-11-21	ES2643157				
CN104661907	B	2018-10-02	CN104661907B				
KR10-1956421	B1	2019-03-08	KR101956421				

Abstract

(EP2892797)

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

Inventors

HERZEL GADI

STENITZKY YUVAL

Latest standardized assignees - inventors removed

GALILEO TRIKES

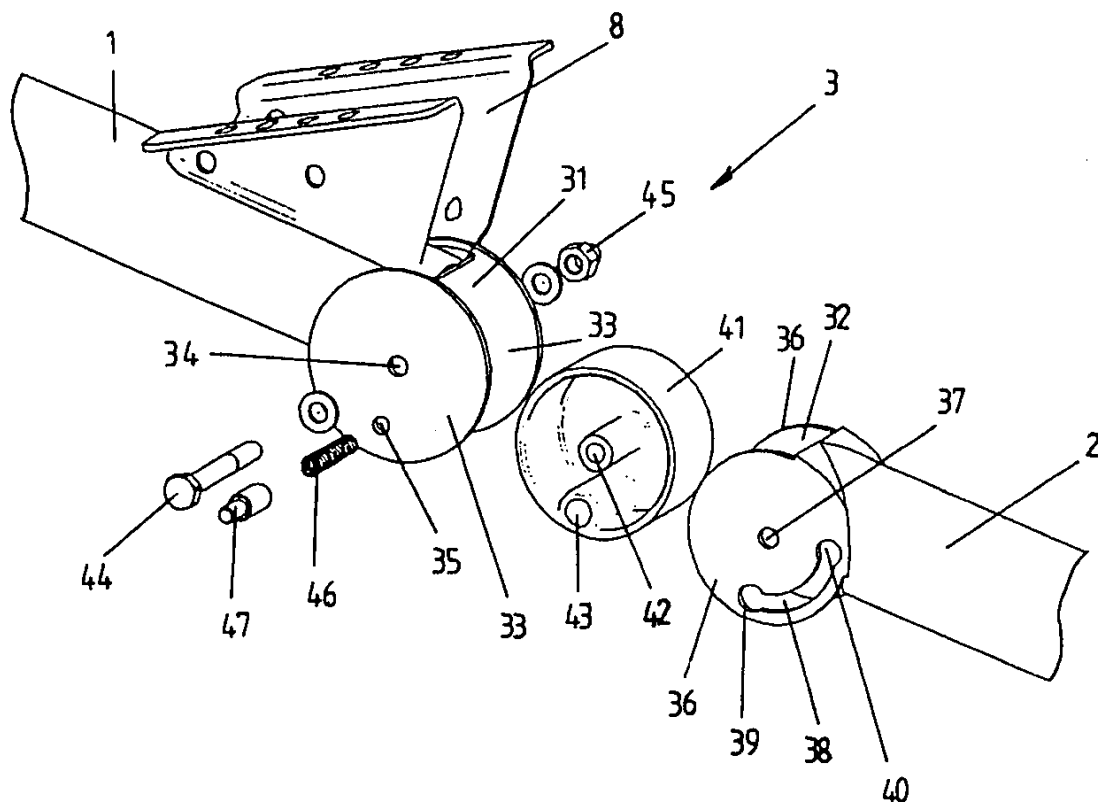
Family 8/27 - FAMPAT - ©Questel

Title

(EP1591352)

Foldable frame for a tricycle, a scooter or or a child's bicycle

Images



Publication data including kind & date

DE202004006903	U1	2004-07-01	DE202004006903
CA2503478	A1	2005-10-29	CA2503478
EP1591352	A1	2005-11-02	EP1591352
MXPA05004235	A	2005-11-23	MX2005PA004235
US20050263981	A1	2005-12-01	US20050263981
US7210696	B2	2007-05-01	US7210696
US20070182124	A1	2007-08-09	US20070182124
US7300066	B2	2007-11-27	US7300066
CA2503478	C	2013-12-31	CA2503478



Abstract

(EP1591352)

A folding frame for a tricycle or bicycle for a child has the main frame divided into a front section (1) and a rear section (2) linked by a folding joint (3). The joint has a concentric construction with a central swivel and with one section having a locating hole for a locking bolt inserted parallel to the swivel axis. The concentric section on the other frame has two locating holes for the locking bolt; one hole for the folded setting and one for the erected setting of the frame. Then user merely withdraws the locking bolt, swing the frame into the required position and reinserts the bolt.

Inventors

KETTLER HEINZ

ROCHOLL REINHARD

KETTLER JOACHIM

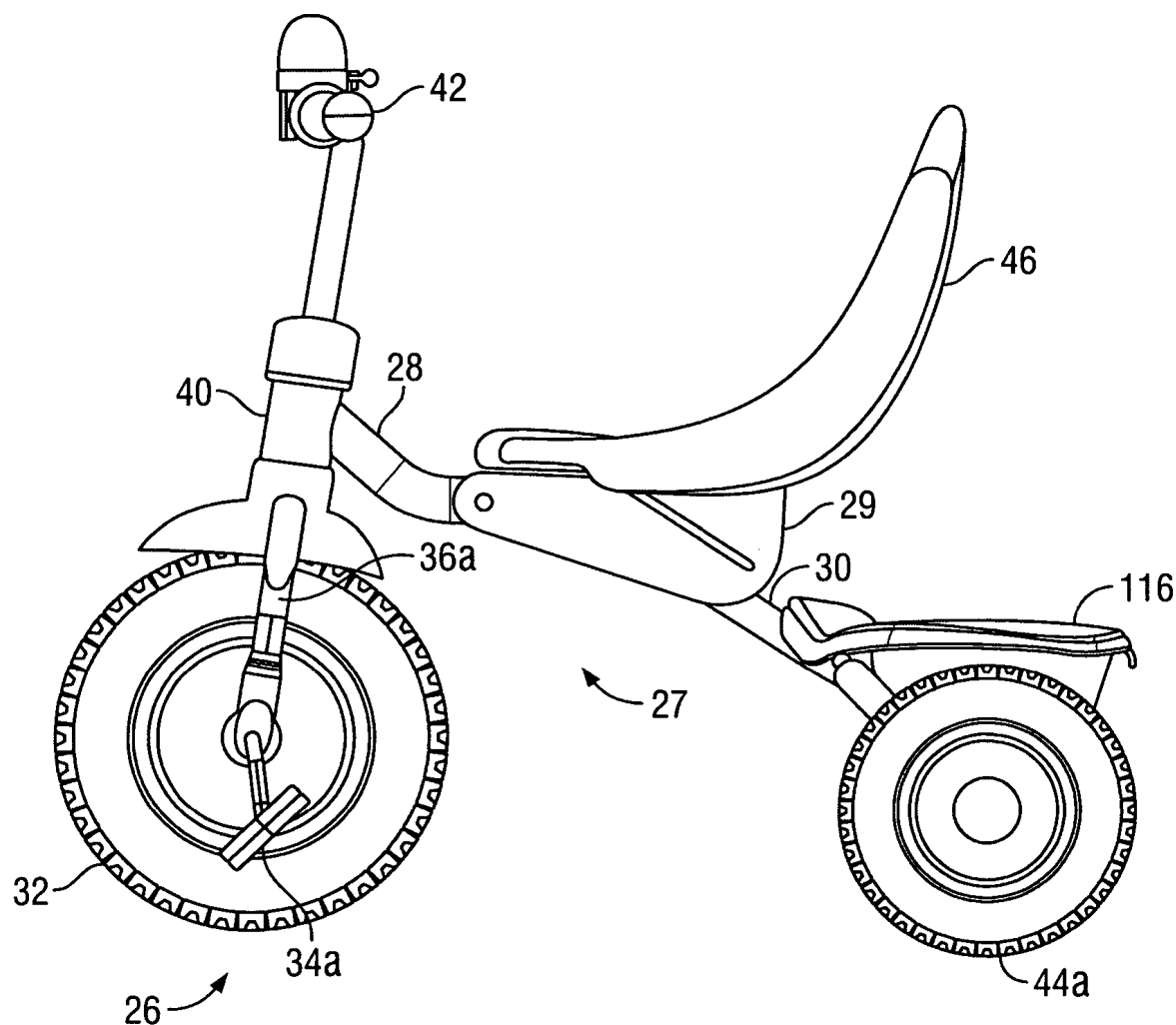
Latest standardized assignees - inventors removed

KETTLER INTERNATIONAL

Title

(EP1535827)

Folding riding vehicle

Images**Publication data including kind & date**

US20050110239	A1	2005-05-26	US20050110239
CN1621298	A	2005-06-01	CN1621298
TW200517297	A	2005-06-01	TW200517297
EP1535827	A2	2005-06-01	EP1535827
JP2005162199	A	2005-06-23	JP2005162199
US6966572	B2	2005-11-22	US6966572
TWI247709	B	2006-01-21	TWI247709
JP3784818	B2	2006-03-24	JP3784818
EP1535827	A3	2006-04-19	EP1535827
CN100404363	C	2008-07-23	CN100404363C
HK1078547	A1	2009-01-09	HK1078547
EP1535827	B1	2011-05-25	EP1535827
AT510756	T	2011-06-15	ATE510756

**Abstract**

(EP1535827)

A folding riding vehicle, such as a tricycle, feature a front frame element to which a front wheel and handlebars are mounted. A front bracket is attached to the front frame element and a seat bracket, to which a seat is mounted, is pivotally

attached to the front bracket. A rear frame element has a pair of rear wheels mounted thereto and is attached to a rear bracket. The rear bracket is also pivotally mounted to the front bracket. The rear seat bracket features a pin that engages slots in the seat bracket. As a result, the seat bracket pivots with respect to the front bracket as the rear frame element is pivoted relative to the front bracket as the riding vehicle is moved between folded and unfolded configurations.

Inventors

MICHELAU FREDERICK

SCHLEGEL THOMAS K

Latest standardized assignees - inventors removed

RADIO FLYER

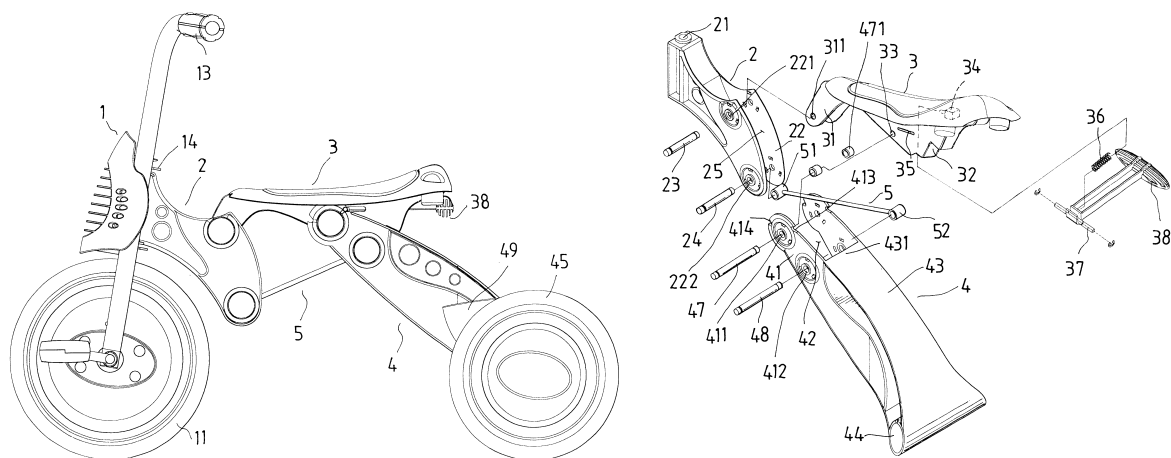
Family 10/27 - FAMPAT - ©Questel

Title

(US6609723)

Collapsible tricycle for the use of young children

Images



Publication data including kind & date

US20030098567	A1	2003-05-29	US20030098567
US6609723	B2	2003-08-26	US6609723



Abstract

(US6609723)

A collapsible tricycle for the use of young children has a front wheel, two rear wheels, a saddle, and a frame, to which the saddle is pivoted. The frame includes a front part, a stationary part secured to the front part, a rear part, and a connecting rod. The stationary part has two parallel walls at the rear portion; the front end of the saddle is pivotally connected to upper portions of the walls; the front portion of rear frame part is pivotally connected to the lower portions of the walls. The rear frame part has two parallel walls defining a space wider than the stationary part such that the stationary part can be partially received in the space when the tricycle is folded, allowing the folded tricycle to be relatively compact. The middle of the saddle is pivoted to the rear frame part. And, the connecting rod is pivoted to both the stationary part and the rear frame from two ends for preventing both from moving relative to each other when the tricycle is ridden. The bottom of the rear part of the saddle is stably supported on the rear frame when the tricycle is stretched. In addition, an engaging rod of the saddle is biased forwards to engage engaging gaps of the rear frame by a spring for preventing the tricycle from being accidentally folded; a pull handle is connected to the engaging rod for a user to pull to disengage the rod from the gaps.

Inventors

CHUANG A-CHUEH

Latest standardized assignees - inventors removed

JIN SUN GEE PLASTICS

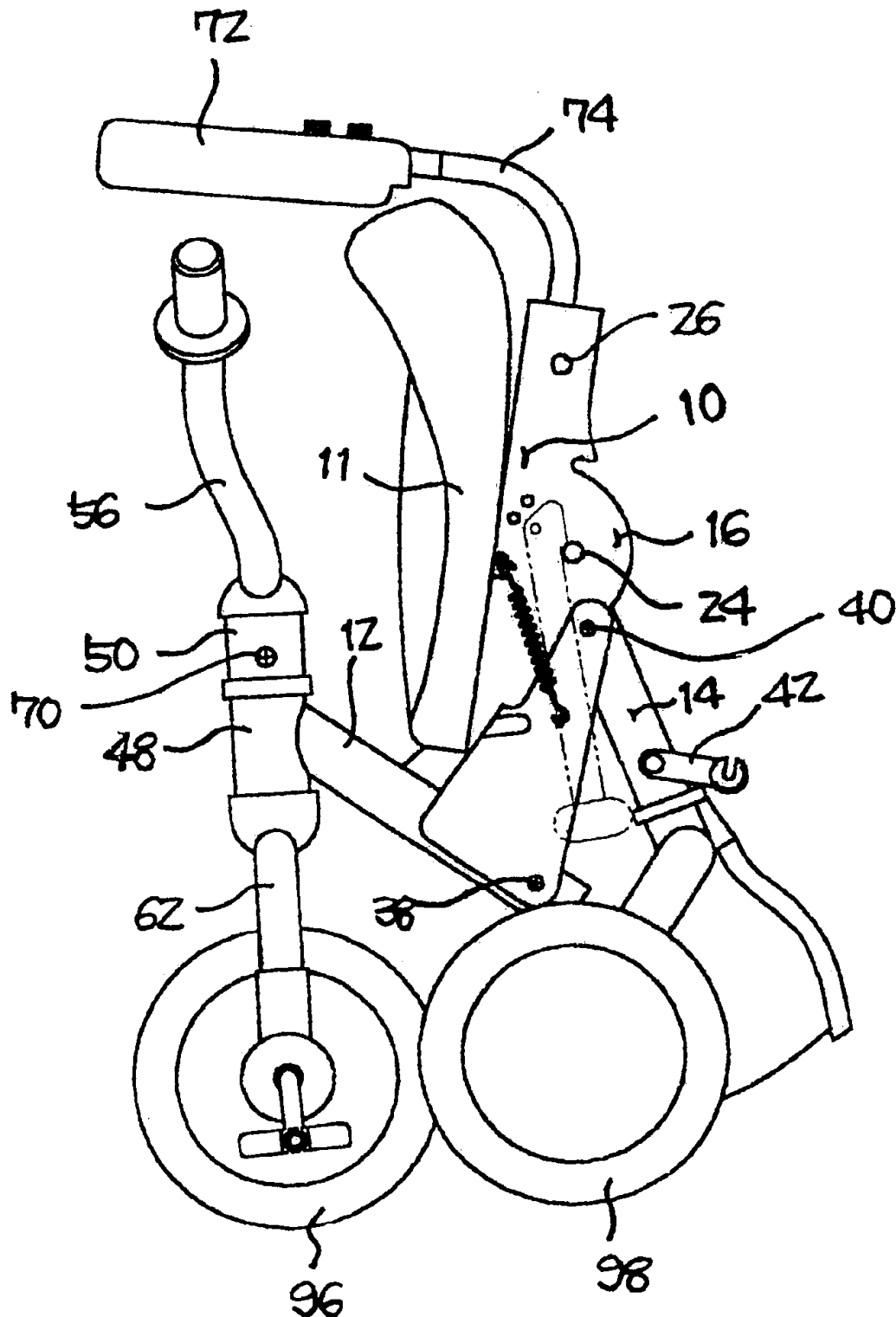
Family 11/27 - FAMPAT - ©Questel

Title

(US6935649)

Foldable tricycle

Images



Publication data including kind & date

KR200298562	Y1	2002-12-20	KR200298562U
US20040061304	A1	2004-04-01	US20040061304
JP2004099021	A	2004-04-02	JP2004099021
US6935649	B2	2005-08-30	US6935649



JP3872777

B2 2006-10-27 JP3872777

Abstract

(US6935649)

A foldable tricycle includes a center frame, a front frame to which a front wheel is rotatably attached, a rear frame to which two rear wheels are rotatably attached, and a four-bar link including a first bar that is integrated with the front frame, a second bar that is integrated with the center frame, a third bar that is integrated with the rear frame, and a fourth bar. The fourth bar has a shape of plates and covers the other bars while the link operates between an unfolded position and a folded position. Lockers that locks the link in either the unfolded position or the folded position are provided and include a pin, two recesses that receives the pin, and a tension spring that presses the pin into the recesses. A semi-circle guide guides the pin between the two positions and also covers the third bar.

Inventors

LIM CHEOL WANG

Latest standardized assignees - inventors removed

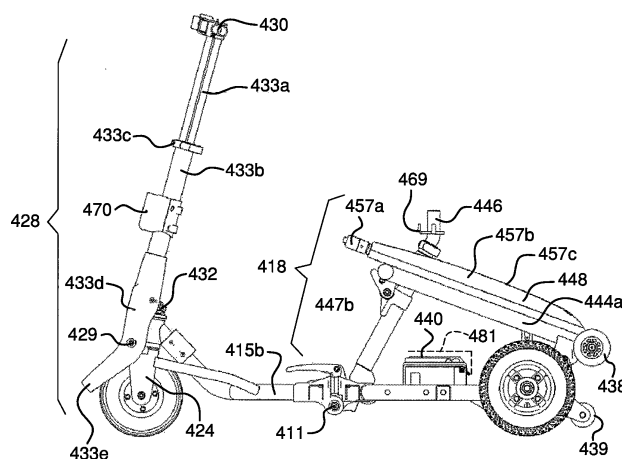
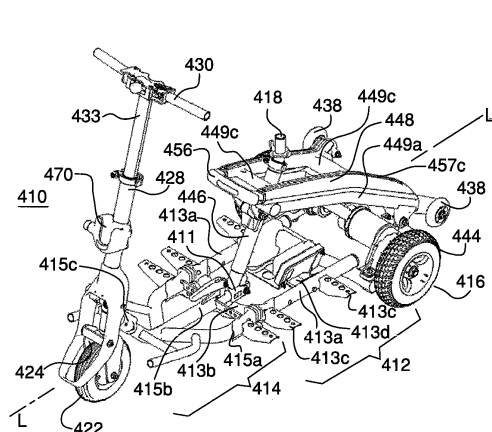
FRIENDLY TOYS

Family 12/27 - FAMPAT - ©Questel

Title

(EP1522489)

Collapsible vehicle

Images**Publication data including kind & date**

CA2484434	A1	2005-04-08	CA2484434
EP1522489	A2	2005-04-13	EP1522489
US20050077097	A1	2005-04-14	US20050077097
EP1522489	A3	2006-08-23	EP1522489
US20070051548	A1	2007-03-08	US20070051548
WO2007109317	A2	2007-09-27	WO2007109317
WO2007109317	A3	2007-12-06	WO2007109317
US7967095	B2	2011-06-28	US7967095
US20110247889	A1	2011-10-13	US20110247889
US20140077476	A1	2014-03-20	US20140077476
US9522711	B2	2016-12-20	US9522711
US20170057587	A1	2017-03-02	US20170057587

**Abstract**

(EP1522489)

A powered vehicle (10) has a rear frame assembly (12) and a front frame assembly (14) that are pivotally attached to one another, and can be pivoted from a normal fully-extended operating position to a folded position in which the frame

assemblies are positioned substantially adjacent to one another, effectively reducing overall vehicle length to about half. One or more latch members lock the front and rear frame assemblies in the fully-extended, normal operating position, and they may be used to lock the frame assemblies in the folded position. The seat support structure (18) may be integrated with the front (14) and rear frame (12) assemblies such that pivoting the frame assemblies toward the folded position collapses the seat support (18). The steering tiller (28) may also be collapsible toward the front frame assembly. The rear wheels (16) may be mounted on a transaxle that is pivotally mounted on the rear frame (12) assembly. An extendable handle may be provided to assist in the folding operation and to tow the collapsed vehicle on its anti-tip rollers.

Inventors

KOSCO JAMES M

LAMOREUX III STERLING G

MARTIS CHARLES J

Latest standardized assignees - inventors removed

PRIDE MOBILITY

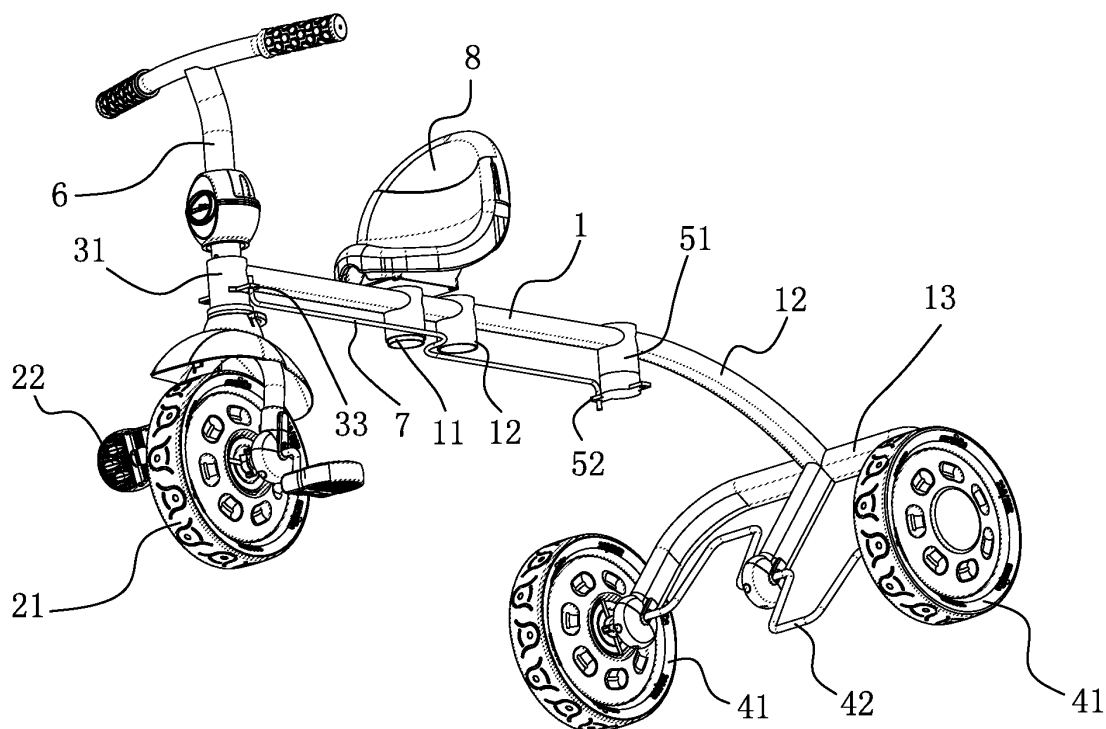
Family 13/27 - FAMPAT - ©Questel

Title

(EP3150473)

Tricycle

Images



Publication data including kind & date

CN102951232	A	2013-03-06	CN102951232
WO2013181871	A1	2013-12-12	WO2013181871
EP2698309	A1	2014-02-19	EP2698309
EP2698309	A4	2014-07-30	EP2698309
US20150344092	A1	2015-12-03	US20150344092
US9376157	B2	2016-06-28	US9376157
US20160304149	A1	2016-10-20	US20160304149
EP2698309	B1	2016-11-23	EP2698309



[EP3150473](#)

A1 2017-04-05 EP3150473

[ES2616678](#)

T3 2017-06-14 ES2616678

**Abstract**

(EP3150473)

The present invention discloses a tricycle comprising: a frame (1), a single-wheel assembly (2) disposed at one longitudinal end of said frame (1), said single-wheel assembly (2) comprising a steering wheel (21), a double-wheel assembly (4) and a handlebar mounting base (5) having a vertically-disposed tube, wherein the double-wheel assembly (4) and the handlebar mounting base (5) are disposed at the other longitudinal end of said frame (1), said double-wheel assembly (4) comprising two wheels widthwise spaced apart and a pedal (42) for driving said two wheels to roll, a handlebar assembly (6) disposed on said handlebar mounting base (5), and a transmission mechanism (7) disposed between said handlebar mounting base (5) and said single-wheel assembly (21), the transmission mechanism (7) coordinating between said steering wheel (21) and said handlebar assembly (6) so as to form a steering assembly.

Inventors

BEN MEIR ILAN

Latest standardized assignees - inventors removed

SMART TRIKE MNF PTE

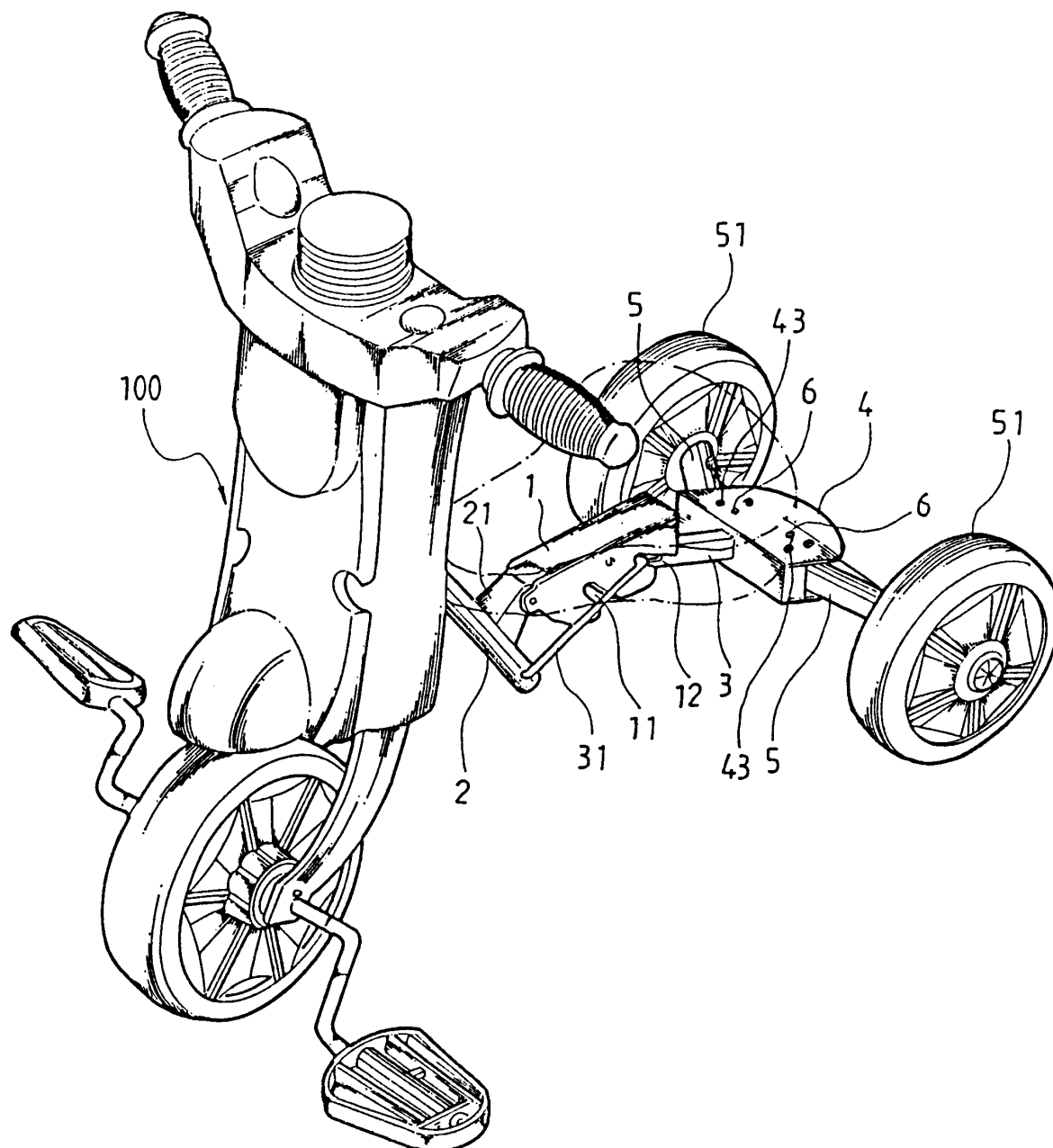
Family 14/27 - FAMPAT - ©Questel

Title

(US6575486)

Folding structure of a children tricycle

Images

**Publication data including kind & date**

US20030080533	A1	2003-05-01	US20030080533
US6575486	B2	2003-06-10	US6575486

**Abstract**

(US6575486)

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.

Inventors

MA PEI-CHUAN

Latest standardized assignees - inventors removed

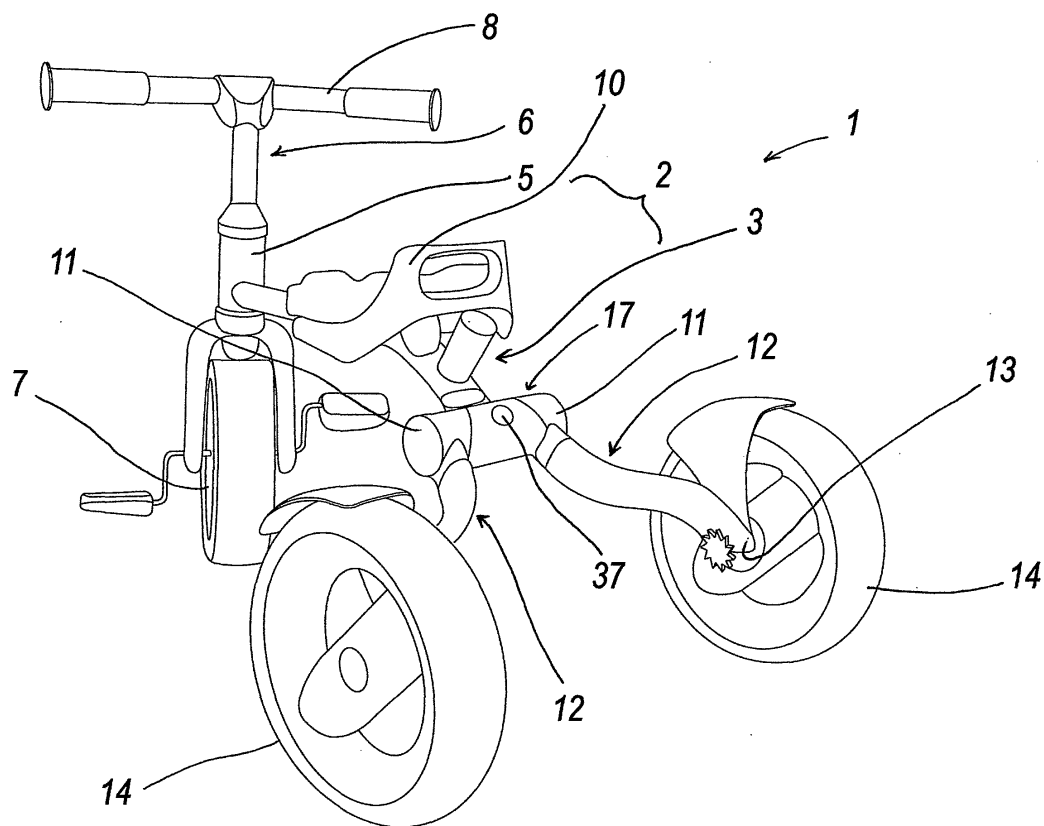
FU KUANG HUAN

Family 15/27 - FAMPAT - ©Questel

Title

(EP1937541)

Size-reducible folding tricycle for children

Images**Publication data including kind & date**

WO2007038951	A1	2007-04-12	WO200738951
EP1937541	A1	2008-07-02	EP1937541
US20080277901	A1	2008-11-13	US20080277901
EP1937541	B1	2010-06-02	EP1937541
DE602005021709	D1	2010-07-15	DE602005021709
ES2346766	T3	2010-10-20	ES2346766

**Abstract**

(EP1937541)

A folding tricycle (1) for children comprises a frame (2) having a central part (3) carrying at its front a head tube (5) and connected at its rear to first ends (11) of rear arms (12) carrying a corresponding rotatable wheel (14), the first end (11) of said arms (12) being hinged to said central part (3) such as to be able to assume at least two working positions, in a first position said arms (12) extending from said central part (3) and in a second position they lie along the side of said part (3). The central part (3) of the frame (2) comprises a portion (17) connecting it to the arms (12) and presenting free surfaces (16) lying in planes inclined to a central plane (W) of the frame (2) and converging to the front said central part (3) of this latter, said first end (11) of said arms (12) being shaped to provide a form fit with said free surfaces (16).

Inventors

CATELLI PIETRO

Latest standardized assignees - inventors removed

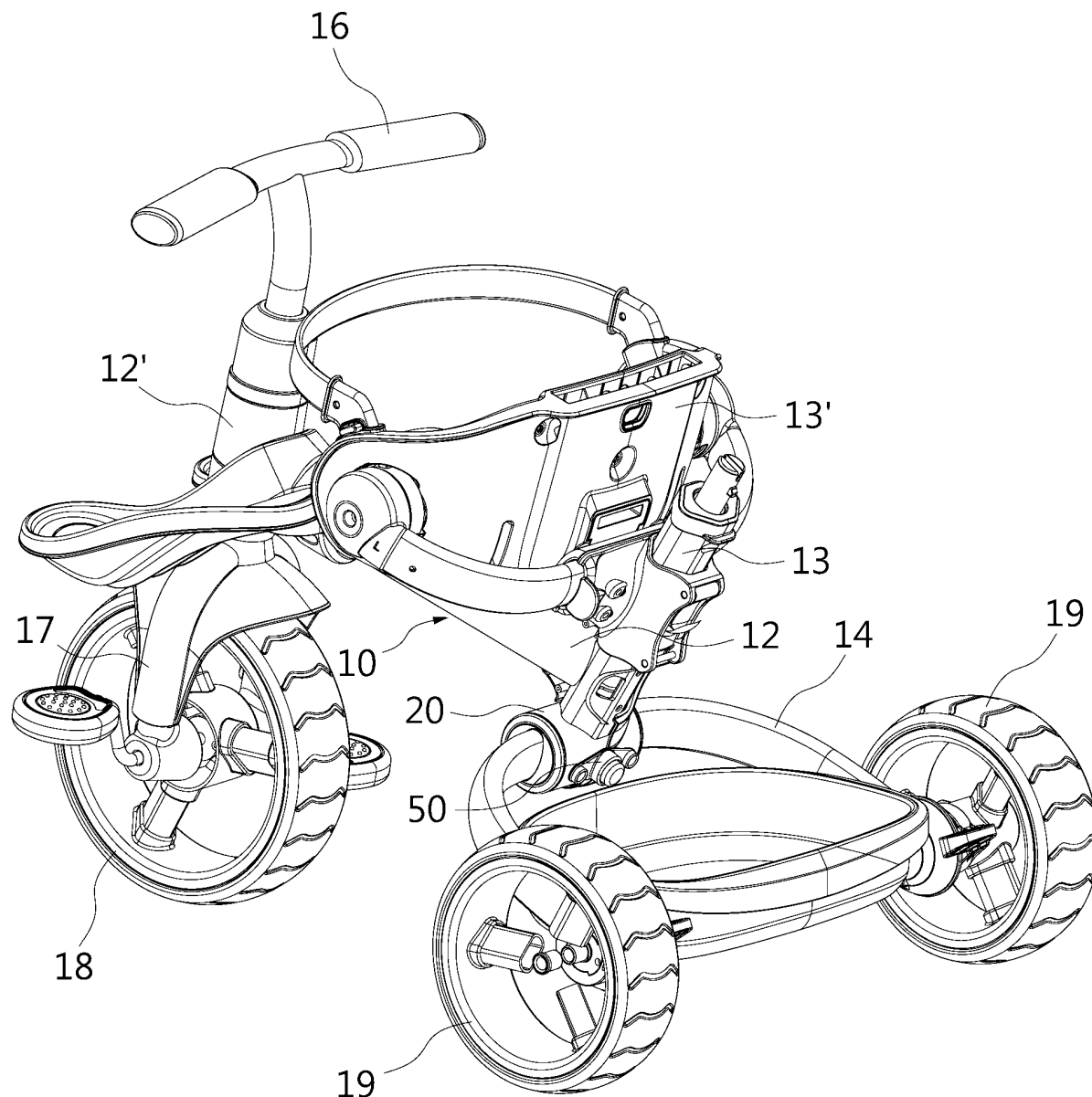
ARTSANA

Family 16/27 - FAMPAT - ©Questel

Title

(KR101801067)

Folding apparatus for cycle

Images**Publication data including kind & date**

KR20170118368	A	2017-10-25	KR20170118368
KR101801067	B1	2017-11-27	KR101801067

**Abstract**

(KR101801067)

The present invention relates to a folding device for a bicycle frame capable of folding a frame including a frame bar, which comprises: a folding housing having a cylindrical space formed therein, and having one of frame bars passing therethrough; a support ring provided at both ends of the folding housing, and provided with a support inner surface; a pin holder installed to pass through the frame bars which pass through the folding housing, and having a hook pin supported by an elastic member to be inserted and withdrawn; and first and second buttons provided at an outer surface of the folding housing which is a position corresponding to first and second pin holes. According to the present invention, a part of the bicycle frame can be folded and unfolded only by simply pressing a button.

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Inventors

LEE, EU TTEUM

Latest standardized assignees - inventors removed

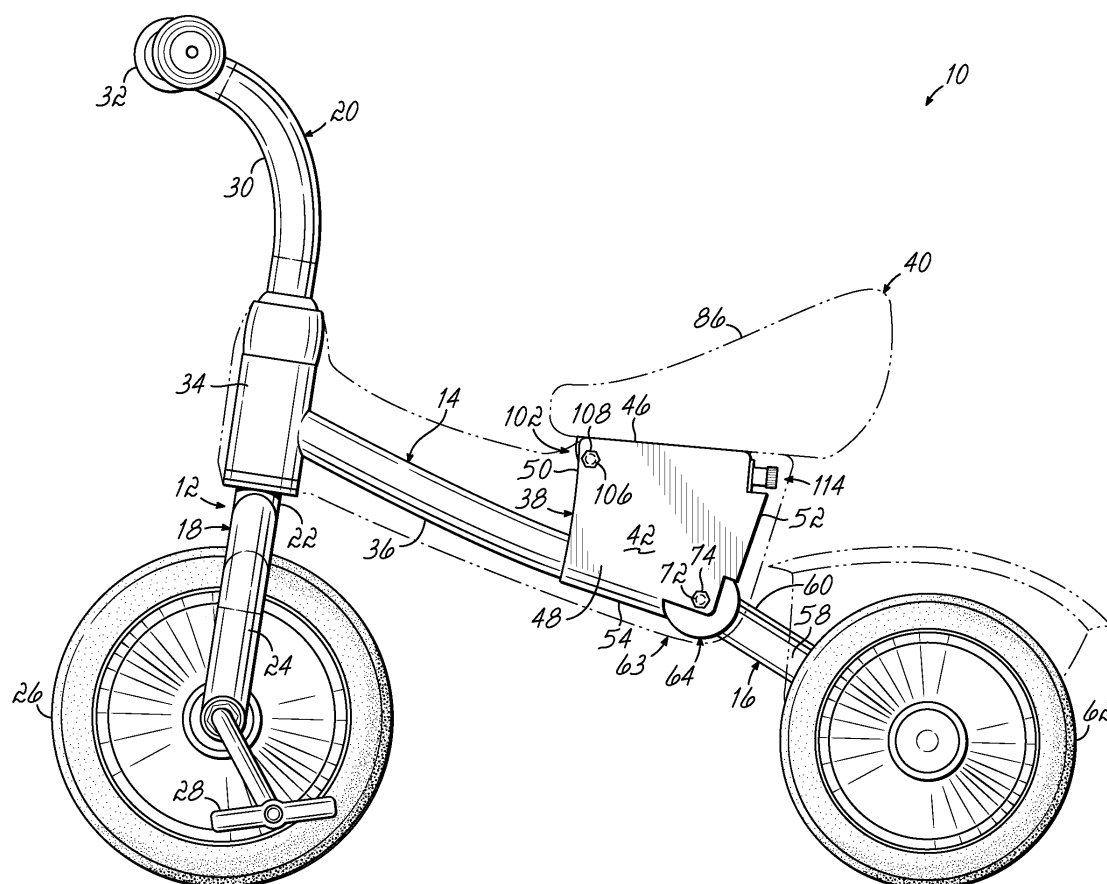
SAM CHULY BICYCLE

Family 17/27 - FAMPAT - ©Questel

Title

(US9452805)

Foldable tricycle with seat actuation

Images**Publication data including kind & date**[US20140097594](#)

A1 2014-04-10

US20140097594

[US9452805](#)

B2 2016-09-27

US9452805

**Abstract**

(US9452805)

A foldable tricycle includes a first frame, a second frame movably coupled to the first frame, and a seat for supporting a rider, wherein the seat operates as an actuator for moving the first and second frames relative to each other. Additionally, a method of handling a foldable tricycle movable between a first position and a second position includes applying a force to the seat of the tricycle, wherein the applied force on the seat causes the tricycle to move from the first position to the second position.

Inventors

BARCHEK DOUGLAS

JEWELL JASON

BEAN ANDREW

JESSIE JR DONALD K

Latest standardized assignees - inventors removed

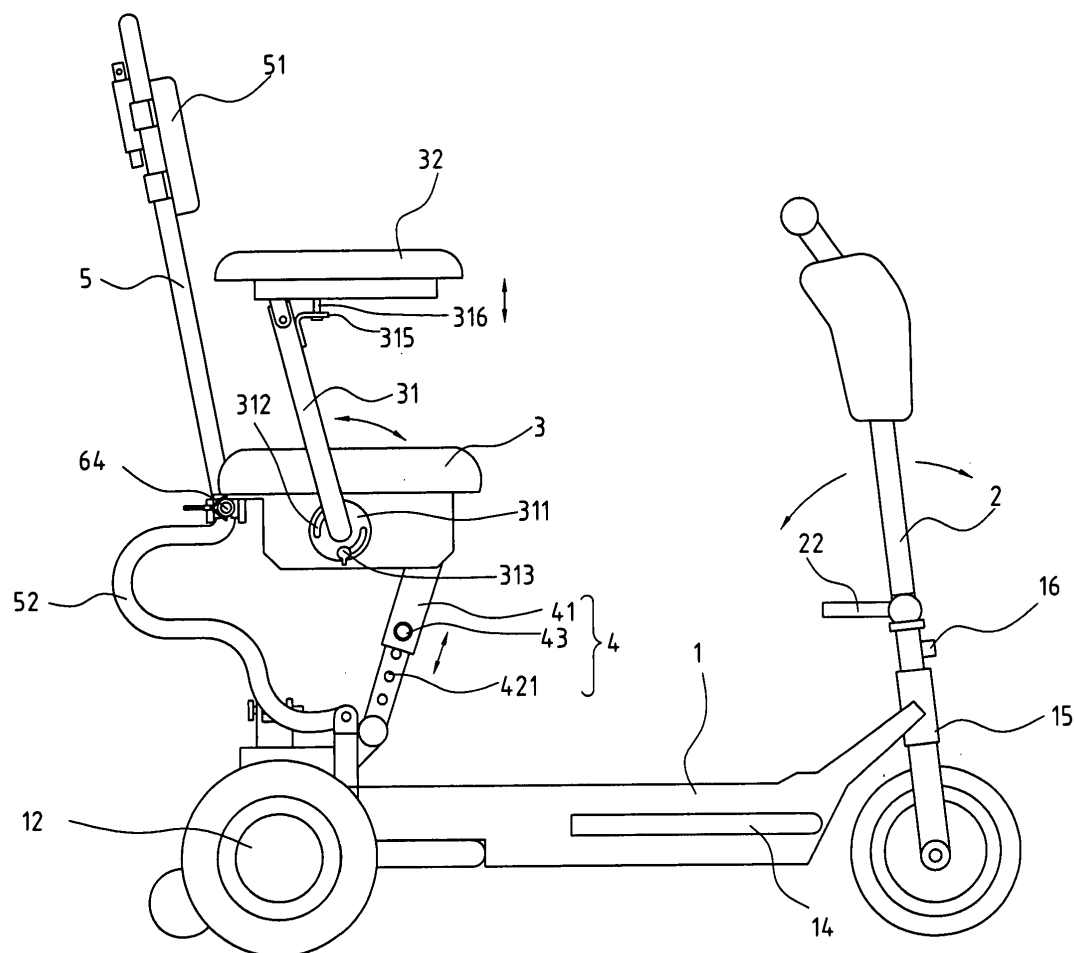
HUFFY

Family 18/27 - FAMPAT - ©Questel

Title

(US7124849)

Foldable tricycle

Images**Publication data including kind & date**[TW573658](#)

U 2004-01-21 TW-573658U

[US20040256164](#)

A1 2004-12-23 US20040256164

[US7124849](#)

B2 2006-10-24 US7124849

**Abstract**

(US7124849)

A tricycle includes a body with a handlebar stand pivotally connected to a front portion of the body to steer a front wheel rotatably mounted on a front wheel bracket which is mounted to a front side of the body, two rear wheels rotatably and oppositely mounted on a rear side of the body and respectively driven by a motor, two side plates respectively formed on the body to be opposite to each other for supporting a user's feet, a seat pivotally mounted on top of the body and a backrest frame pivotally mounted on top of the body and detachably connected to the seat.

Inventors

HUANG SHUN-TAI

Latest standardized assignees - inventors removed

TAIWAN PAIHO

Family 19/27 - FAMPAT - ©Questel

Title

(FR2380935)

Compact folding tricycle - has scissors shaped main folding frame with extending column for front forks support

Publication data including kind & date[DE2804993](#)

A1 1978-08-17

DE2804993

[FR2380935](#)

A1 1978-09-15

FR2380935

**Abstract**

(FR2380935)

The folding tricycle has a scissors shaped frame (5, 6) linked by a central pivot (7). The front ends of the frame member (5, 6) are linked to the bottom and top ends of the front fork support, (1) which is extended telescopically to erect the machine. The rear of the machine has two small trailing wheels (4) moved flat against the frame when stacked. The seat (S) is clipped to the frame and is also removed for flat storage.

Inventors

VEZZOLI LUIGI

PANDINI PIETRO

Latest standardized assignees - inventors removed

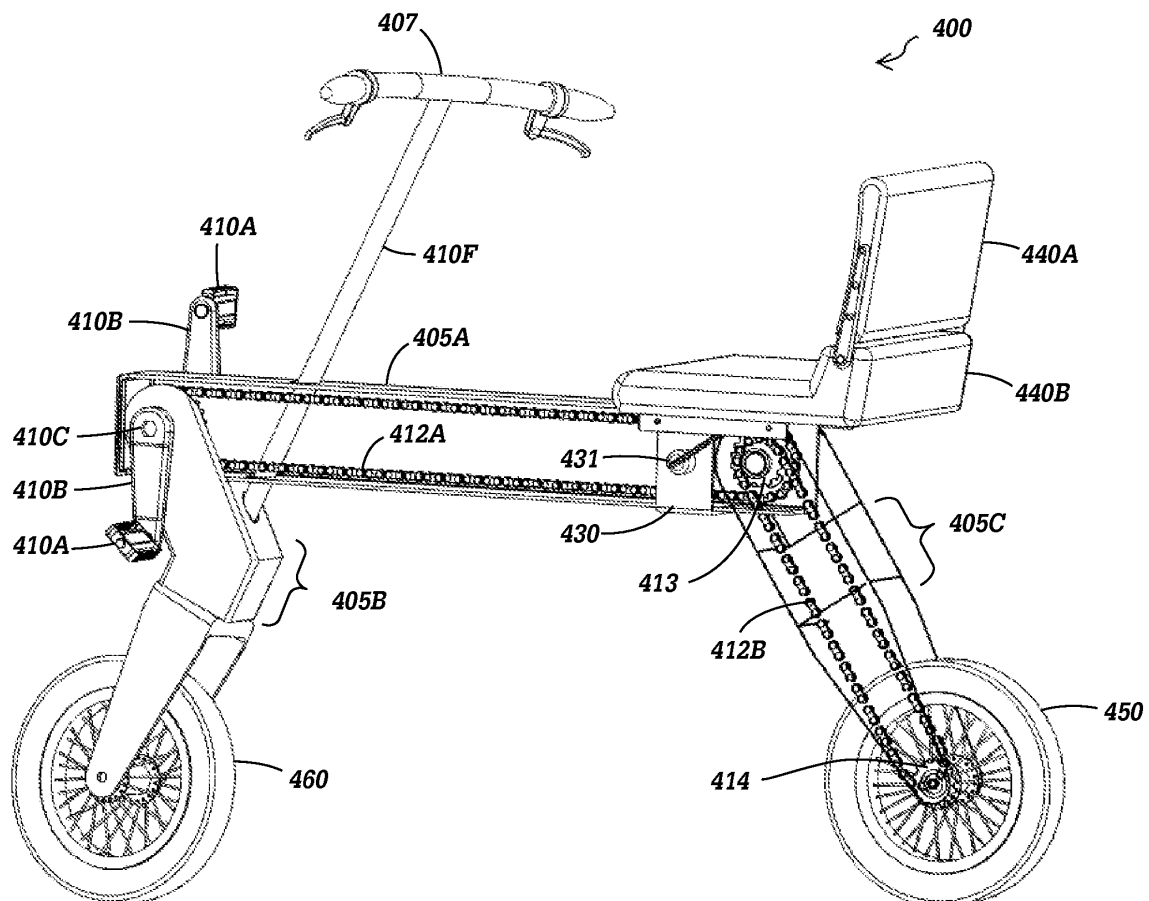
AMPAGLAS

Family 20/27 - FAMPAT - ©Questel

Title

(US8746722)

Method of travel using a folding vehicle having a chassis that functions as a protective, carry-on casing

Images**Publication data including kind & date**

US8348294	B1	2013-01-08	US8348294				
US20130092465	A1	2013-04-18	US20130092465				
US8459678	B2	2013-06-11	US8459678				
US20130299258	A1	2013-11-14	US20130299258				
US8746722	B2	2014-06-10	US8746722				

Abstract

(US8746722)

A method of using a folding vehicle having a chassis that functions as a protective, carry-on casing is provided. The vehicle has a chassis with a center member, a rotatably-lockable front strut, a rotatably-lockable rear strut, and two pivot points for converting the vehicle from an operational state to a collapsed state; and, a drive member with a crankshaft. The crankshaft and the rotatably-lockable front strut pivot share a central axis of rotation; and, the releasably-lockable front strut and the releasably-lockable rear strut are configured to fold into a complementary relationship in the interior of the channel in the collapsed state. The channel functions as a protective, carry-on case for the folding vehicle in the collapsed state.

Inventors

MOLDESTAD JON P

Latest standardized assignees - inventors removed

JAPAN DISPLAY

MDM PRODUCTIVITY

Family 21/27 - FAMPAT - ©Questel

Title

(WO2017182947)

A lockable folding mechanism

Images

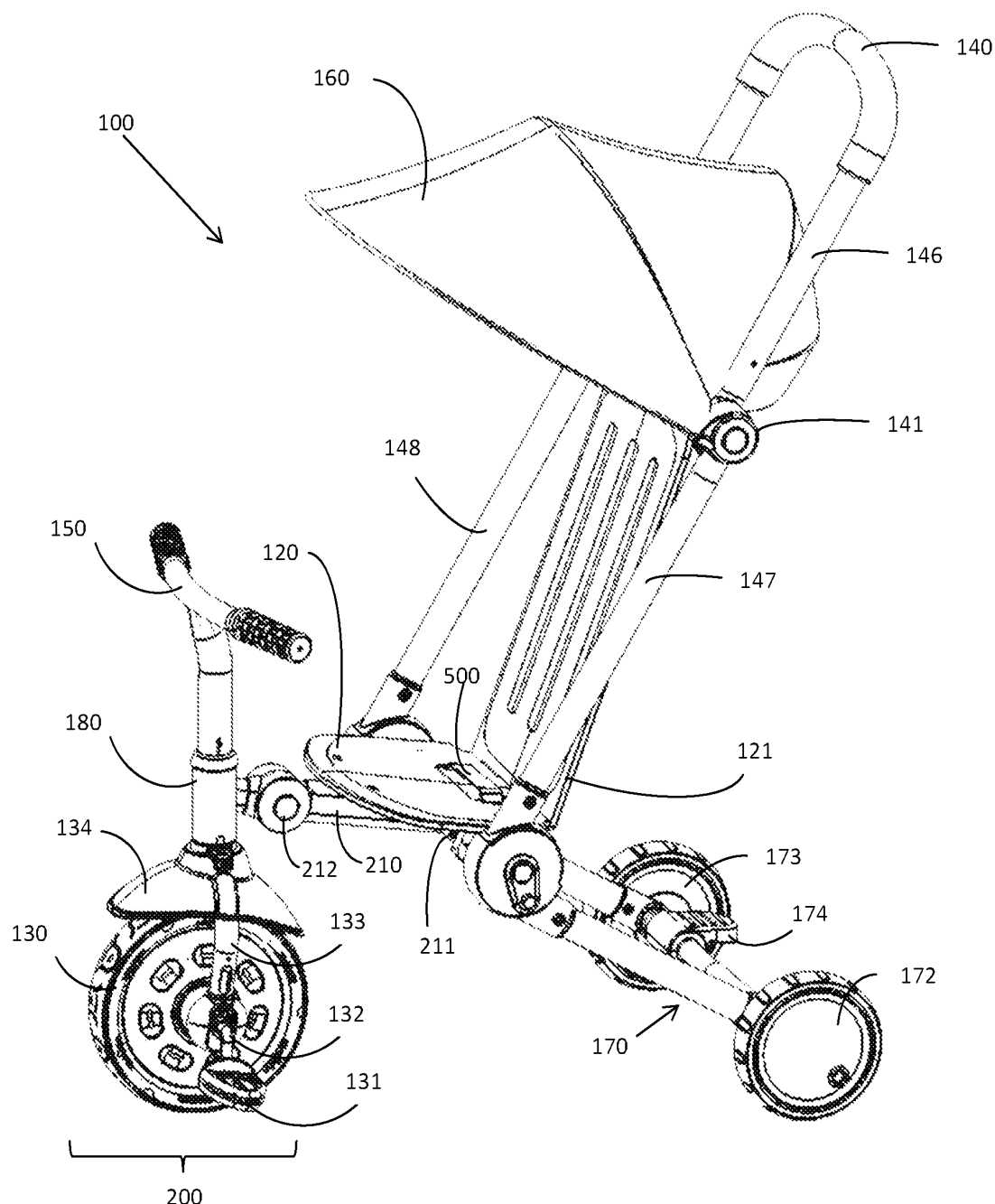


Fig. 1

Publication data including kind & date[WO2017182947](#)

A1 2017-10-26

WO2017182947

**Abstract**

(WO2017182947)

The present invention relates to a collapsible tricycle, comprising: (a) an elongated center support having opposing ends; (b) a pair of rear wheels; (c) a rear wheel support frame having a first end configured to rotatably support said rear wheels and a second end connected to said elongated center support, wherein said elongated center support and said rear wheel support frame cooperate to form a first closed loop; and (d) a handgrip frame having a first end configured for grasping by an attendant and a second end connected to said elongated center support, wherein said elongated center support and said handgrip frame cooperate to form a second closed loop.

Inventors

BARON YORAM

Latest standardized assignees - inventors removed

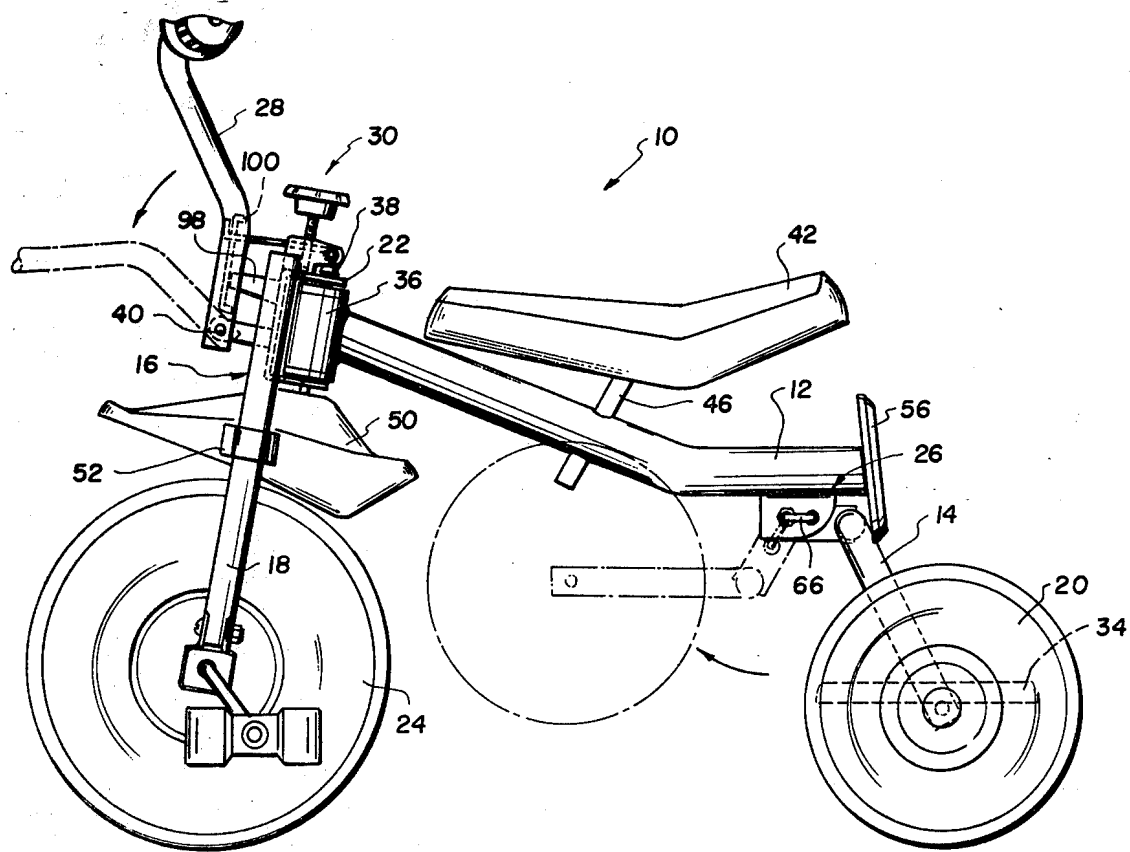
SMART TRIKE MNF PTE

Family 22/27 - FAMPAT - ©Questel

Title

(US4457529)

Folding tricycle

Images**Publication data including kind & date**[US4457529](#)

A 1984-07-03 US4457529

**Abstract**

(US4457529)

A folding tricycle comprises a main frame having a rear frame member pivotally connected to a rear end thereof and a front fork pivotally connected to a front end thereof. A pair of wheels is rotatably mounted to the rear frame member and a front wheel is rotatably mounted to the front fork. Handle bars are pivotally mounted about a substantially horizontal axis to the front forks to move from a raised operating position to a lowered storage position. Locks are provided on the front and rear of the main frame member to lock the handle bars in their raised operable position and also to lock the rear frame member in an operable position, the rear frame member having a storage position with the wheels and rear frame member pivoted under the main frame member.

Inventors

SHAMIE LOUIS

SHAMIE SAM

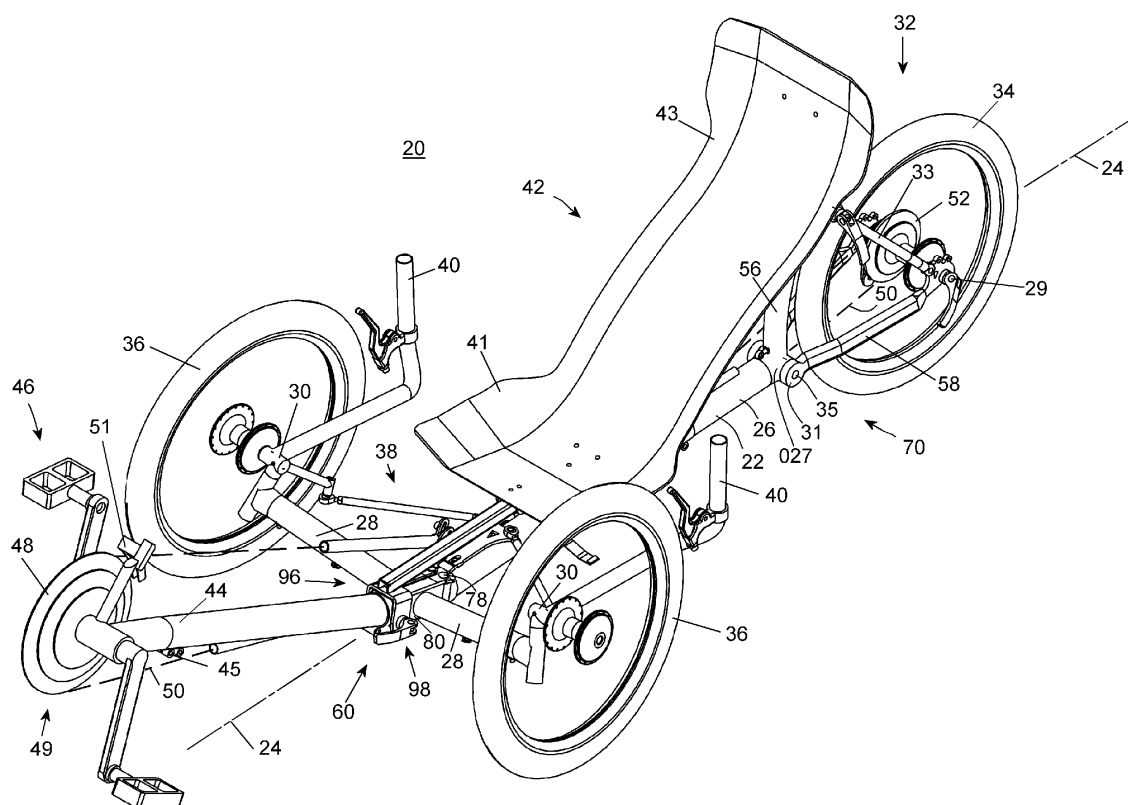
Family 23/27 - FAMPAT - ©Questel

Title

(EP2558355)

Collapsible recumbent tricycle

Images



Publication data including kind & date

GB201105919	D0	2011-05-18	GB201105919
US20110248467	A1	2011-10-13	US20110248467
GB2479632	A	2011-10-19	GB2479632
WO2011130134	A1	2011-10-20	WO2011130134
US8342555	B2	2013-01-01	US8342555
EP2558355	A1	2013-02-20	EP2558355
US20130093157	A1	2013-04-18	US20130093157
US8720927	B2	2014-05-13	US8720927
EP2558355	B1	2015-03-18	EP2558355



Abstract

(EP2558355)

A tricycle (20) having a spine frame (22), supported by a rear wheel (34) and a pair of steerable front wheels (36), and supporting a recumbent seat (42) pivotably attached at its rear. A pedal boom (44) extends forwardly of the spine (26) and supports a pedal crank assembly (46). The front wheels each support a lateral arm (28) with the front wheel pivotably attached at the distal end and an angular projection (80) attached at the proximal end. A pivot (78) connects each angular projection to the spine, allowing the lateral arms and front wheels to be stowed alongside the spine. Another pivot (84) connects the boom to the spine, allowing the boom fold back to a stowed position against the spine. In the travel position, clamping means arrest the angular projections, and can arrest the boom and seat. The tricycle is collapsible to several levels of compactness.

Inventors

BALL ALAN

BALL ERIC

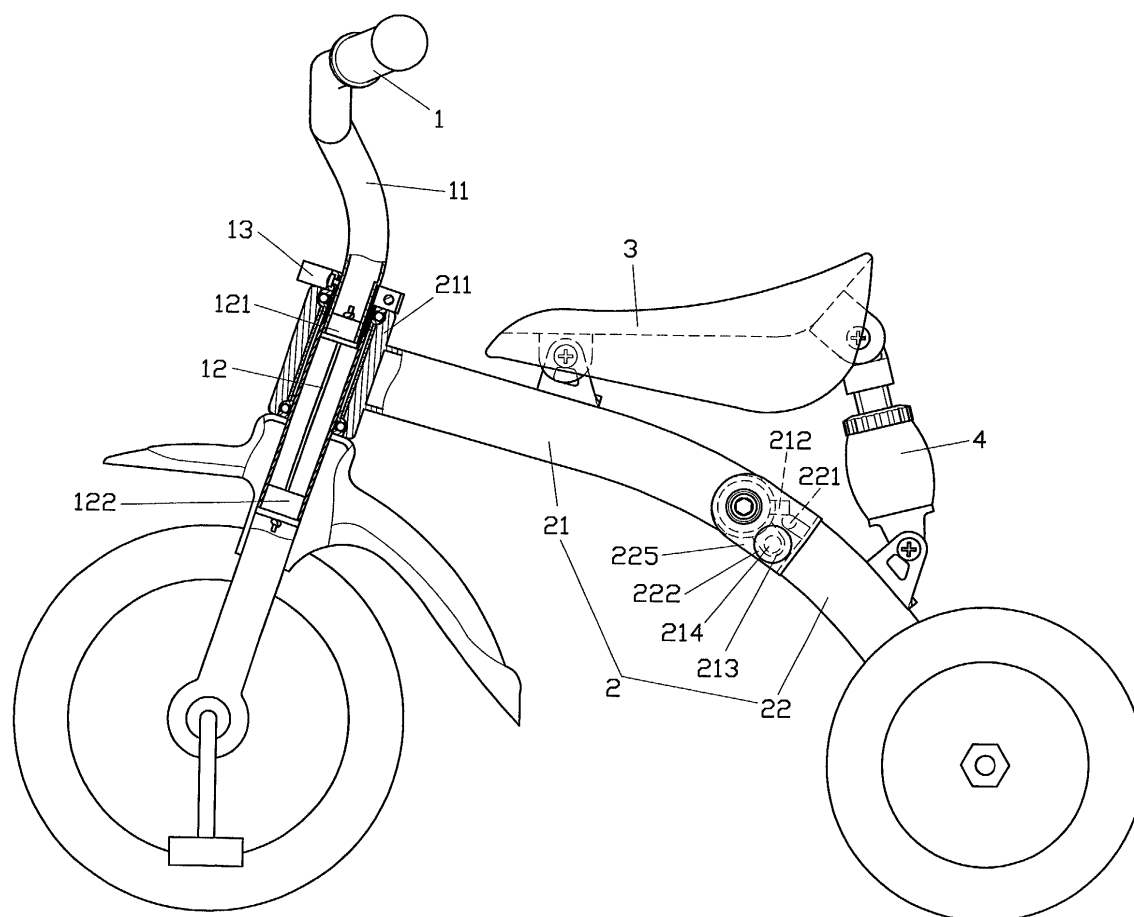
Family 24/27 - FAMPAT - ©Questel

Title

(US20030141695)

Child tricycle folding structure

Images



Publication data including kind & date

GB0201946	D0	2002-03-13	GB200201946
GB2384468	A	2003-07-30	GB2384468
US20030141695	A1	2003-07-31	US20030141695



Abstract

(US20030141695)

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.

Inventors

CHEN TING-HSING

Latest standardized assignees - inventors removed

FAR GREAT PLASTICS INDUSTRIAL

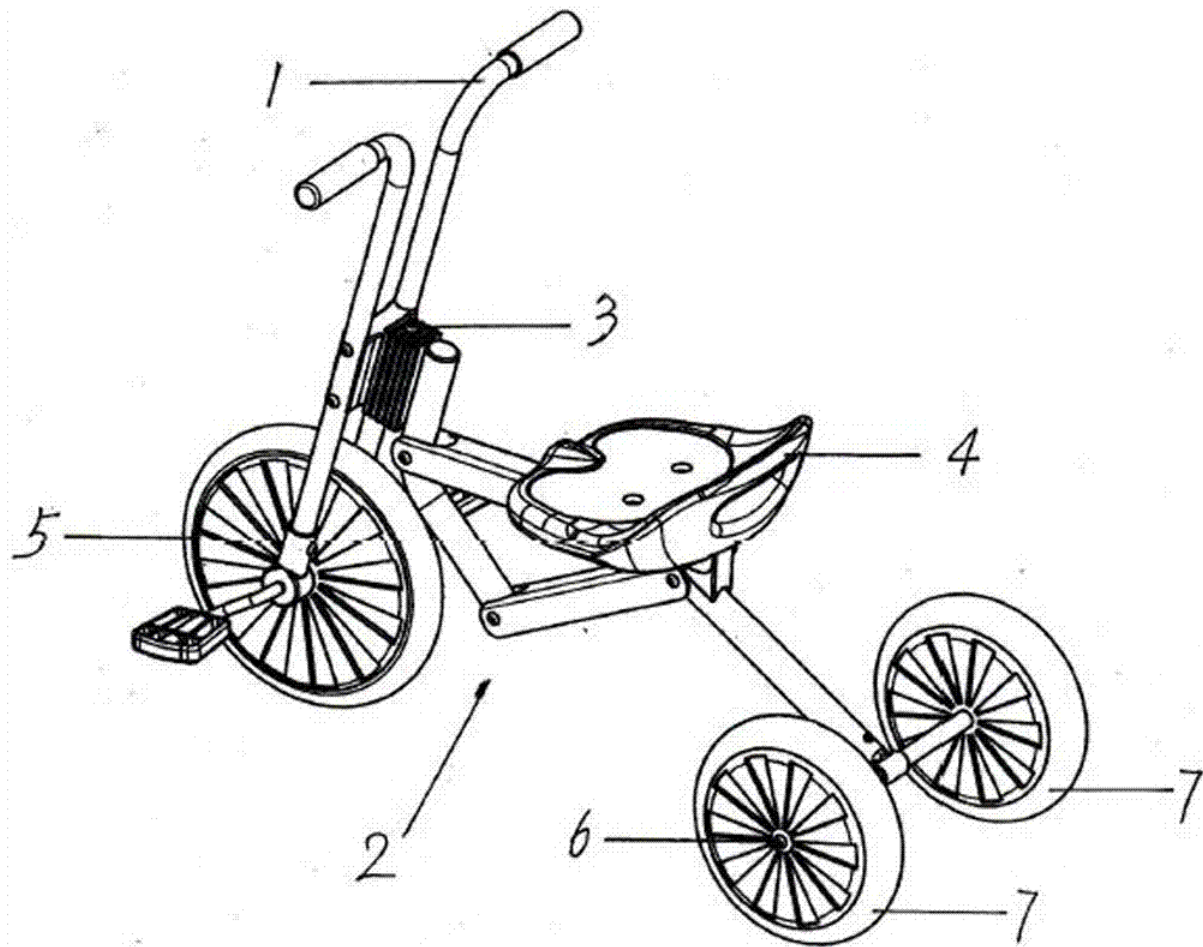
Family 25/27 - FAMPAT - ©Questel

Title

(CN105836018)

Child's folding tricycle

Images



Publication data including kind & date

CN105836018	A	2016-08-10	CN105836018
CN105836018	B	2018-05-08	CN105836018B



Abstract

(CN105836018B)

Provided is a child's folding tricycle. The child's folding tricycle comprises a handlebar, a folding tricycle frame, a transfer sleeve, a seat, a front wheel group, a back shaft and two back wheels. The handlebar is composed of two bent pipes and a connection part. The folding tricycle frame is composed of a front beam pipe, a rotary part, a back beam pipe, an upper slotted part, a lower slotted part, a back shaft pipe, a connection piece and a block part. A foldable four-link rod is combined by connection of the front beam pipe, the rotary part, the back beam pipe, the upper slotted part and the back slotted part. The rotary part is connected to the front side of the front beam pipe. The back shaft pipe is connected to the back end of the back beam pipe. The connection piece and the block part are connected to the back end of the upper slotted part. The seat is connected with the connection piece. Two connection rods of the front wheel group are connected with lower ends of the two bent pipes in a sleeving mode. The front wheel group is composed of a front wheel, a pedal shaft, two connection rods and two pedals. The back shaft penetrates into the back shaft pipe and out of two ends. The two back wheels are rotatably connected to two ends of the back shaft in a sleeving mode.

Inventors

PANG MINGFANG

Latest standardized assignees - inventors removed

TAICANG CHEZHONGBAO LEISURE ARTICLES

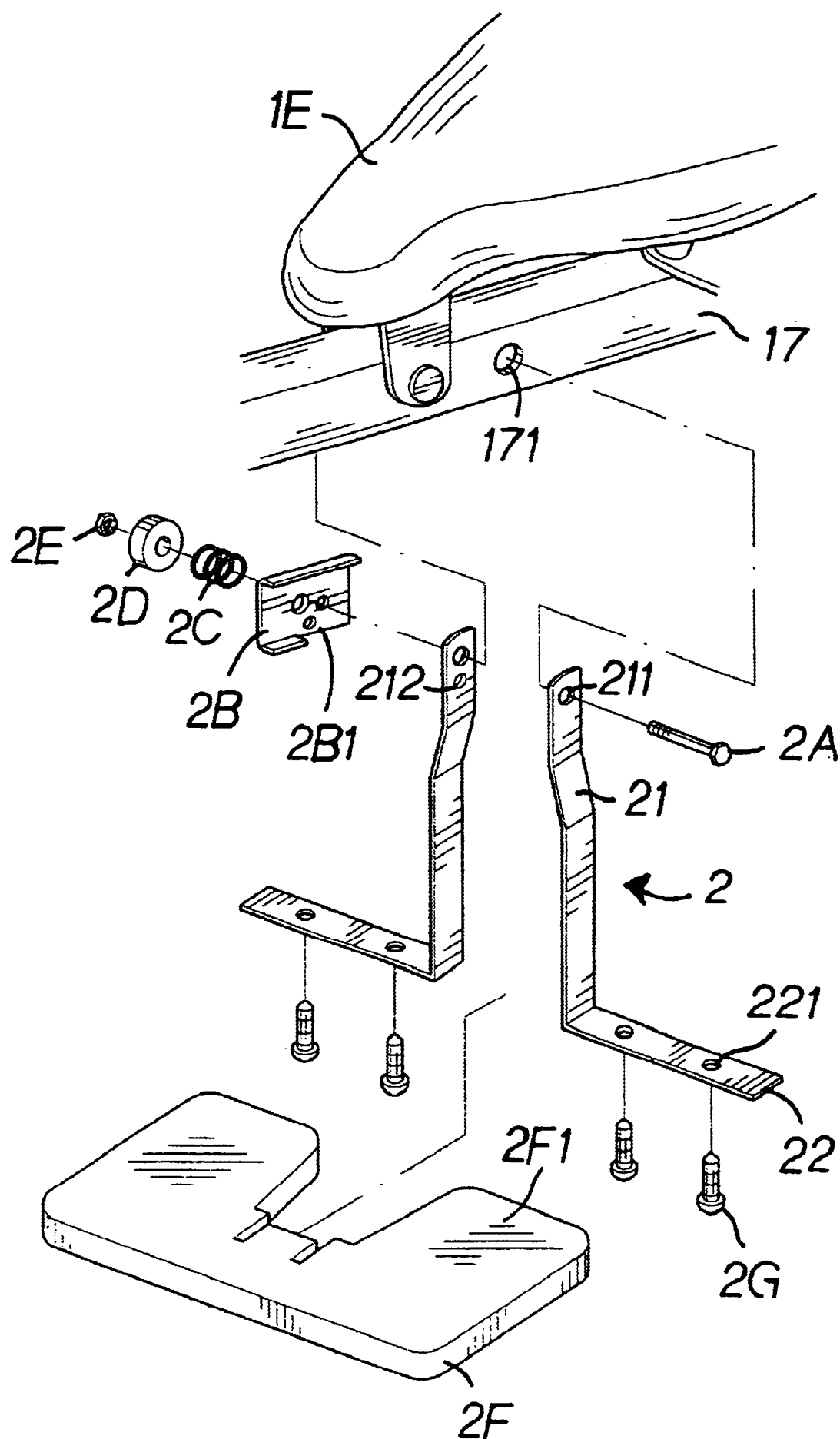
Family 26/27 - FAMPAT - ©Questel

Title

(US6726233)

Toddler tricycle folding footboard structure

Images



[US20040066018](#)

A1 2004-04-08 US20040066018

[US6726233](#)

B1 2004-04-27 US6726233

**Abstract**

(US6726233)

A toddler tricycle folding footboard structure consisting of a shaft hole formed through the lateral surfaces of a connective tube positioned between the rear and front brace of a toddler tricycle frame that is aligned with the shaft holes in the vertical extremities of a pair of L-shaped bracket members, a bolt inserted through the shaft holes, and a nut fastened onto it to effect a tight conjunction, following which the pair of L-shaped bracket members remain movable at the shaft hole in the lateral surfaces of the connective tube. The horizontal extremities at the bottom aspects of the L-shaped bracket members facing outward from the two sides of the connective tube are then conjoined to a footboard such that they become a unitary structural entity, with the bolt functioning as an axle that enables free swinging for folding and unfolding to reduce space occupancy and facilitate utilization convenience.

Inventors

LI HSING

Latest standardized assignees - inventors removed

HONG MOU ENTERPRISE

Family 27/27 - FAMPAT - ©Questel

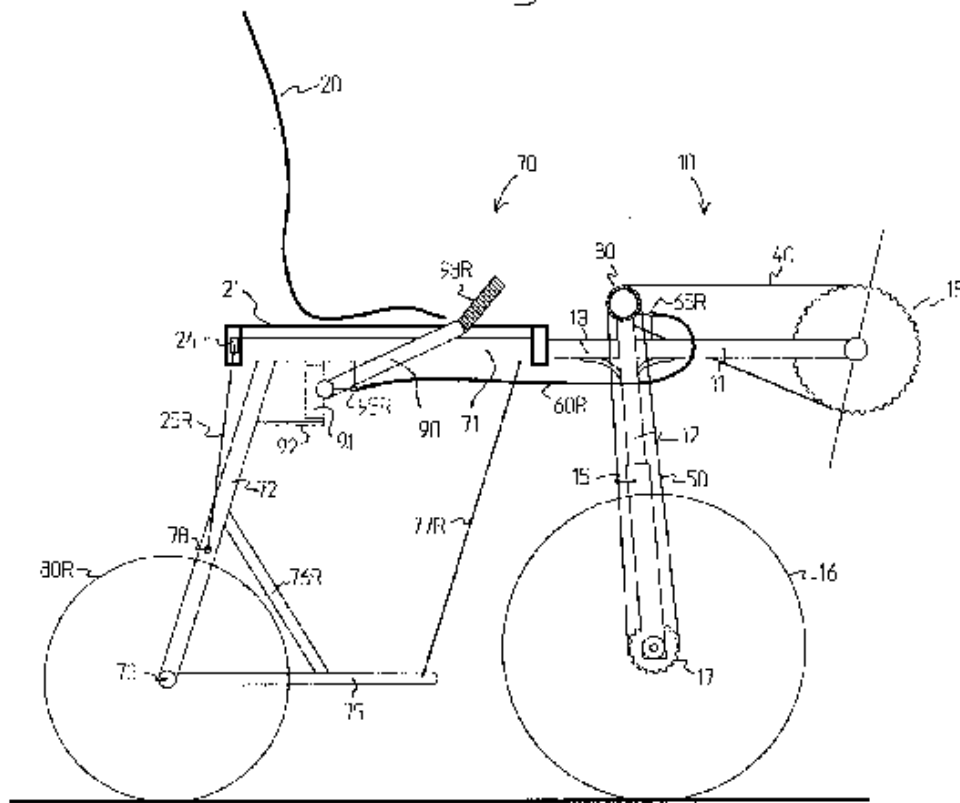
Title

(US6062581)

Leaning recumbent tricycle

Images

Figure 1



Publication data including kind & date

US6062581

A 2000-05-16 US6062581



Abstract

(US6062581)

A human-powered recumbent tricycle with an articulated frame that permits leaning of the single-wheeled front sub-frame (10) during turns. While the seat (20) and pedal crank (18) move the driver's body with the leaning front sub-frame (10), the two-wheeled rear sub-frame (71) carries the handlebar (90) for optimum driver control of vehicular orientation. Steering of the front wheel (16) is accomplished by two cables (60L, 60R) within housings (61L, 61R) that provide immunity from distortions caused by articulation (100) rotations during leaning. Front wheel (16) drive utilizes a universal joint hub (30) for continuous power drive and no chain (40, 50) twist throughout the full turning radius. High seat (20) height and narrow wheelspan of the two rear wheels (80L, 80R) provide for improved visibility and traffic penetration on congested urban

streets. A low cargo rack (75) is provided such that carrying cargo lowers the overall center of gravity and increases vehicular stability. Since the front wheel (16) drive system is self-contained within the front sub-frame (10), the rear sub-frame (70) is interchangeable with other rear sub-frame (70) configurations; whereby this modular system can create vehicles for personal transportation, delivery, pedicabs, flat-bed trucks, and other custom needs; all with the same front drive sub-frame (10).

Inventors

STITES WILLIAM J