

Search history

Search 1: FT=(bicycle and parking device and wheel and lock* and pivot* and rack) and CPC=(E05B71/00 or B62H3/00 or B62H5/00) (Results 2)

Search 2: FT=(bicycle and parking and wheel and lock* and pivot*) and CPC=(E05B71/00 or B62H3/00 or B62H5/00) (Results 86)

1) Family number: 57613538 (US2014311996 AA)

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Title: BICYCLE CONTAINMENT APPARATUS**Priority:** US20130813719P 20130419 US20140255226 20140417 US20160340444 20161101

Family:	Publication number	Publication date	Application number	Application date
	US2014311996 AA	20141023	US20140255226	20140417
	US9499223 BB	20161122	US20140255226	20140417
	US2017043827 AA	20170216	US20160340444	20161101
	US9758203 BB	20170912	US20160340444	20161101

Probable Assignee: OVIATT THAD**Assignee(s):(std):** OVIATT THAD V**Assignee(s):** OVIATT THAD**Inventor(s):(std):** OVIATT THAD V**Agent(s):** DANIEL T; RYAN A; TROUTMAN SANDERS LLP**International class (IPC 8-9):** B62H3/00 B62H3/02 B62H3/04 B62H5/00 B62H5/06 E05B71/00 G07C9/00**CPC:** B62H2003/005 B62H3/00 B62H3/02 B62H3/04 B62H5/00 B62H5/06 E05B71/00 G07C9/00896**US class:** 1/1 211/5[Classification Explorer](#)**Cited documents:** US2015360739 AA, US2014277706 AA, US2014265237 AA, US8678205 BB, US2012234777 AA, US2010163503 AA, US2009240575 AA, US2007220933 AA, US5917407 A, US5323915 A, US4433787 A, US4433786 A, US3970197 A, US3964611 A, US3934436 A, US3865245 A, US3865244 A, US3815721 A, US3802232 A, US3783659 A, US3762569 A,**Forward Citations:** US10239465 BB, US2017253189 AA, WO18156118 A1,

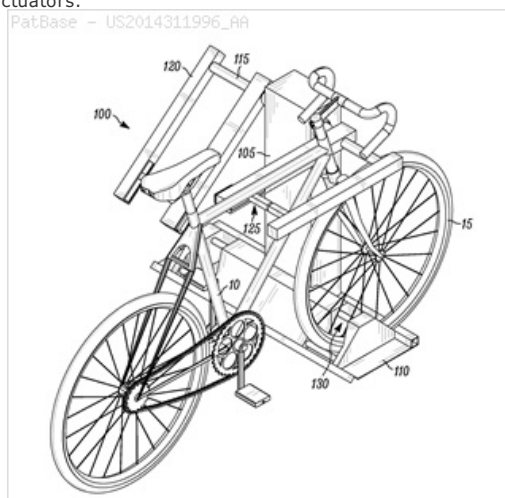
IT201600083082 A1

IT201600114747 A1

WO18015511 A1, US9840855 BB, US2015360739 AA,

Abstract:

A bicycle containment system is disclosed. The system can include one or more vertical supports, one or more cantilevered crossbars pivotally connected to one or more vertical supports, one or more wheel locking mechanisms, and a control system. Each cantilevered crossbar can include two substantially parallel extending arms and a frame locking mechanism. The frame locking mechanism can be made up of one or more frame locking bars and one or more frame locking actuators. Each wheel locking mechanism can include a wheel locking bar and a wheel locking actuator. The locking mechanism control system can be configured to actuate the frame locking actuators and the wheel locking actuators.



2) Family number: 60353514 (US2016031506 AA)

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Title: ELECTRIC BICYCLE

Priority:	US20140032173P	20140801	US20150804958	20150721	US20150804907	20150721
	US20150805033	20150721	US20150805014	20150721	US20150804977	20150721
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	RU20150131806	20150730	RU20150131809	20150730	RU20150131810	20150730
	RU20150131812	20150730	RU20150131813	20150730	US20170608039	20170530

Family:	Publication number	Publication date	Application number	Application date
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	CN105365967 B	20190719	CN201510463449	20150731
	CN105314035 A	20160210	CN201510463458	20150731
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	CN105314026 B	20191018	CN201510464649	20150731
	CN105314038 A	20160210	CN201510464771	20150731
	CN105314038 B	20191112	CN201510464771	20150731
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■	US2016031516 AA	20160204	US20150804879	20150721
■	US9701356 BB	20170711	US20150804879	20150721
■	US2016031517 AA	20160204	US20150804907	20150721
■	US9963185 BB	20180508	US20150804907	20150721
■	US2016031514 AA	20160204	US20150804937	20150721
■	US9902452 BB	20180227	US20150804937	20150721
■	US2016031525 AA	20160204	US20150804958	20150721
■	US9663177 BB	20170530	US20150804958	20150721
■	US10336393 BB	20190702	US20150804977	20150721
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■	US2016031507 AA	20160204	US20150804995	20150721
■	US9610996 BB	20170404	US20150804995	20150721
■	US2016031506 AA	20160204	US20150805014	20150721
■	US9573646 BB	20170221	US20150805014	20150721
■	US2016031513 AA	20160204	US20150805033	20150721
■	US9616959 BB	20170411	US20150805033	20150721
■	US10202161 BB	20190212	US20170608039	20170530
■	US2017259879 AA	20170914	US20170608039	20170530

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Inventor(s):(std):

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Agent(s):

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International class (IPC 8-9):

B60L11/00 B60L11/18 B60L15/20 B60L50/00 B60L50/20 B60L50/50 B60L53/14 B60L53/18 B60L53/60 B60L9/00 B60Q9/00 B60R16/02 B62D3/00 B62H5/00 B62H5/20 B62J1/00 B62J1/08 B62J1/10 B62J27/00 B62J3/00 B62J6/00 B62J6/04 B62J99/00 B62K1/00 B62K11/00 B62K15/00 B62K17/00 B62K19/36 B62K21/12 B62K21/16 B62K21/26 B62K25/02 B62K3/00 B62K3/02 B62M6/40 B62M6/45 B62M6/50 B62M6/55 B62M6/70 B62M6/80 B62M6/90 B62M7/00 B62M7/06 B62M7/12 E05B71/00 G05D3/10 G06F1/16 G06F13/00 G06F13/40 G06F3/00 G06F5/00 G06F9/445 G08G1/16 H01H5/02 H05B39/00

CPC:

B60L15/20 B60L2200/12 B60L2250/16 B60L2250/20 B60L2250/26 B60L2260/52 B60L2260/54 B60L50/20 B60L53/18 B60L53/68 B62D3/00 B62H2005/008 B62H5/003 B62H5/20 B62J1/08 B62J27/00 B62J45/10 B62J45/20 B62J45/40 B62J50/20 B62J50/25 B62J6/015 B62J6/04 B62J99/00 B62K1/00 B62K11/00 B62K15/00 B62K15/006 B62K15/008 B62K17/00 B62K2015/001 B62K2015/005 B62K21/16 B62K2204/00 B62K25/02 B62K3/00 B62K3/02 B62M6/40 B62M6/50 B62M6/90 B62M7/00 B62M7/06 E05B71/00 G05D3/10 G06F1/1632 G06F1/1683 G06F1/1698 G06F13/4081 G08G1/165 G08G1/166 Y02D10/00 Y02T10/64 Y02T10/70 Y02T10/7072 Y02T10/72 Y02T90/12 Y02T90/14 Y02T90/16 B62J2001/085 B62K2206/00 B62M6/55 B62M6/45 B62J6/00 B62K13/00 B62M9/06 B62H5/08 B62K19/36 B62K2015/003 B60Q9/00 B62H3/00 B62H5/00 B62J3/00 B62J43/00 B62K21/12 B62K21/26 B62K3/06 G08G1/167 B60L11/00

US class:

1/1 180/206.1 180/206.2 180/206.4 180/206.7 180/207.3 280/278 280/281.1 280/287 297/195.1 701/22 701/301 701/41 701/49 701/70 710/304

[Classification Explorer](#)

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AA, JP2009220669 A2, DE19629788 A1, CN102420494 A, WO13097282 A1, WO15092729 A2, WO10198453, EP2565110 A1, US2007147057 AA, US2008192497 AA, US6953260 BA, EP2505469 A1, CN203975086 U, CN105365967 A, US2013099909 AA, TWM284601 Y, US2005213338 AA, US2002093825 AA, US6158881 A, WO14083388 A1, CN103786827 A, CN103562059 A, CN103552646 A, CN103407380 A, CN103342145 A, CN102849168 A, EP2423096 A2, KR20110015088 A, EP1174976 A1, CN202783603 U, CN202716993 U, CN201660069 U, CN1711190 A, CN1628359 A, US6267401 BA, JP11099984 A2, CN203186536 U, CN103010390 A, CN202728483 U, WO12172227 A1, CN202529108 U, US2008071436 AA, JP11099984, CN103129664 A,

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Forward Citations:

US2019275896 AA, US10384556 BA, US2017305496 AA, US10501143 BB, WO19038265 A1, US2018237102 AA, WO19182555 A1, US10543741 BB, US2018039949 AA, US10308065 BB, US10259311 BB, US10190882 BB, US10150529 BB, US10144480 BB, US9994099 BB, US9944349 BB, US9931924 BB, US9789929 BB, US2016012652 AA, US2017176200 AA, US2016176474 AA, US9616966 BB, US9815520 BB, US9550542 BB, CN109572918 B, CN109572918 A, US2019210681 AA, TWI598261 B, GB2550378 A1, US10781879 BB, US10759247 BB, US10737546 BB, US2018328442 AA, US10723409 BB, US10710675 BB, US10697514 BB, US10670735 BB, US10670106 BB, US10591015 BB, EP3472033 A4, US10501137 BB, US2018237099 AA, US10464622 BB, US10373414 BB, WO19105514 A1, US10259520 BB, US10040499 BB, US2017096185 AA, US9592882 BB, US9485251 BB, US2015197308 AA, RU2724044 C1, GB2563855 A1, US10235883 BB, US2016104380 AA, ES2774873 AA, JP2018043593 A2, EP3339157 A4, EP3301007 B1, EP3275774 B1, EP3301007 A1, EP3275774 A1, WO19043576 A1,

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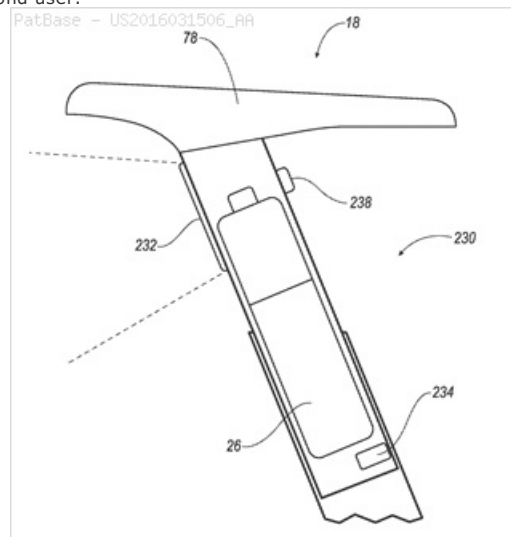
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Abstract:

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



3) Family number: 56398254 (US2015117935 AA)

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Title: BICYCLE LOCKING AND PARKING DEVICE

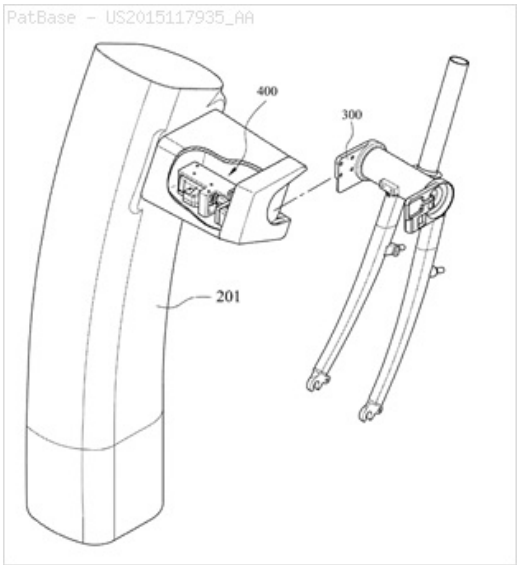
Priority: TW20130219833U 20131024

Family:

Publication number	Publication date	Application number	Application date
■ CN203601450 U	20140521	CN201320777570U	20131129
■ JP2015081506 A2	20150427	JP20140217154	20141024
■ JP6271393 B2	20180131	JP20140217154	20141024
■ SG10201406700S A1	20150528	SG20141006700	20141017
■ TWM477980 Y	20140511	TW20130219833U	20131024
■ US2015117935 AA	20150430	US20140517935	20141020
■ US9169673 BB	20151027	US20140517935	20141020

Probable Assignee: GIANT MFG CO LTD
Assignee(s):(std): GIANT MFG CO LTD ; JUDA MACH IND CO LTD
Assignee(s): GIANT MFG CO
Inventor(s):(std): CHEN MU TSUN ; CHEN MUCUN ; MU TSUN CHEN
Agent(s): CKC AND PARTNERS CO LTD; HATTORI MASAKI; W P LAI AND CO
International class (IPC 8-9): B62H3/02 B62H5/00 E05B47/00 E05B71/00
CPC: B62H2003/005 B62H3/00 E05B2047/0048 E05B2047/0072 E05B47/0001 E05B71/00 Y10T403/1624 Y10T70/5872 Y10T70/5876 Y10T70/5881
US class: 1/1 403/14
[Classification Explorer](#)
Cited documents: US2012192601 AA, US2011226709 AA, US2011148346 AA, US2009266673 AA, US2008156050 AA, US2008041127 AA, US6453706 BA, US6199416 BA, US5917407 A, US4830167 A, JP2011172468, JP4052796, JP2011172468 A2, JP4052796 A2,
Forward Citations: US2019047647 AA, US10549801 BB, USD766138 S1, US10641007 BB, TWI643780 B, WO17217929 A1, CN108945183 A, CN104806055 B, CN104806055 A, CN104481209 A,

Abstract:
A bicycle locking and parking device for parking a bicycle is provided. The bicycle locking and parking device comprises a parking seat, a control module, a locking unit, and a bicycle locking mechanism. The bicycle locking mechanism comprises a locking groove, a first locking member, a reciprocating displacement limiter, a second locking member, and a third locking member. Wherein, the control module drives the third locking member, and the control module cooperates with the second locking member to make the displacement path of the lock-in part being closed. The positioning convex is embedded to the positioning groove, and the locking unit is locked in the bicycle locking mechanism. The present disclosure can avoid the adverse effects or the trouble accident.



4) Family number: 48319986 (US2011037240 AA)

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Title: BICYCLE HUB LOCKING MECHANISM AND PARKING SYSTEM
Priority: US20090233648P 20090813 CA20102712752 20100813 US20100856002 20100813
US20130797678 20130312 US20150852243 20150911 US20170450690 20170306

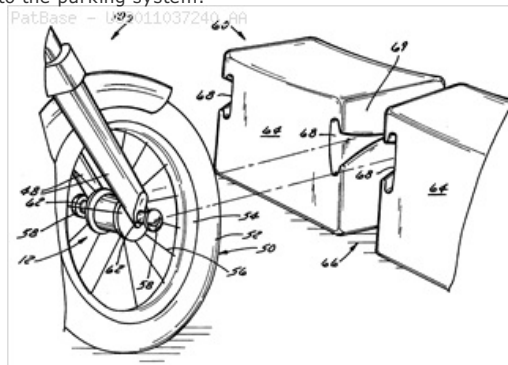
Family:	Publication number	Publication date	Application number	Application date
	CA2712752 AA	20110213	CA20102712752	20100813
	CA2712752 C	20190409	CA20102712752	20100813
	US2011037240 AA	20110217	US20100856002	20100813
	US2013193091 AA	20130801	US20130797678	20130312
	US9227680 BB	20160105	US20130797678	20130312
	US2016167725 AA	20160616	US20150852243	20150911
	US9586639 BB	20170307	US20150852243	20150911
	US2018022410 AA	20180125	US20170450690	20170306

Probable Assignee: B CYCLE LLC
Assignee(s):(std): B CYCLE LLC ; BOGUSKY ALEX ; CYCLE LLC B ; KRITZER MICHAEL
Inventor(s):(std): BOGUSKY ALEX ; KRITZER MICHAEL
Agent(s): BOYLE FREDRICKSON SC; RIDOUT AND MAYBEE LLP
International class (IPC 8-9): A47F7/00 B60B27/00 B60B27/02 B60B7/00 B60B7/06 B62H1/00 B62H3/04 B62H5/00 E05B47/06 E05B51/02 E05B53/00 E05B71/00 G07F7/02
CPC: B60B27/023 B60B7/00 B60B7/061 B62H2003/005 B62H3/04 B62H5/00 B62H5/005 E05B47/0603 E05B51/02 E05B71/00 Y10T70/5881
US class: 1/1 211/20 211/20S 211/5 280/293 280/293P 301/110.5 70/235 70/235S
[Classification Explorer](#)
Cited documents: US2009201127 AA, US4830167 A, US3724844 A, US2004113437 AA, WO10058127 A1, US5628214 A, US2009266673 AA, US2007220933 AA, US5875662 A, US4421308 A, US4306660 A, US5152729 A, US6620081 BB, US5145478 A, US4955600 A, US7407466 BB, US5042795 A, US4941651 A, US5026047 A, US4593898 A, US3964610 A, US5417629 A, US4021034 A, US3735981 A, US4262899 A, US5498015 A, US6257419 BA, US4079958 A, US5022672 A, US4817939 A,
Forward Citations: CN105332569 B, CN105332569 A, US9567025 BB, US2015074004 AA, US2017036722 AA, US10641014

BB, CN103437607 A, CN108005494 A, US10223854 BB, CN105625829 A, US9598128 BB, USD776576 S1, USD766138 S1, EP2639144 A1, CN103754293 B, USD746760 S1, US2015152668 AA, US2011226708 AA, CN103754293 A, CN103452384 A, USD738276 S1, USD730780 S1, USD730779 S1, USD730781 S1, US8739979 BB, US8678205 BB, US2013228535 AA, US10723399 BB, WO17020134 A1,

Abstract:

A bicycle and bicycle parking and lock system wherein a hub locking device that is secured to a bicycle cooperates with a parking rack. The bicycle includes an engagement member that is secured to an axle of the bicycle. The engagement member selectively removably cooperates with a recess formed in the parking and lock system. The parking and lock system includes a number of upstanding members that are positioned to generally flank the front wheel of a bicycle to maintain the bicycle in a generally upright orientation. Each or select number of the upstanding members include a lock system that cooperates with the locking engagement member so as to secure the respective bicycle with respect to the parking system.



5) Family number: 50106931 (DE102010052793 A1)

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Title: BICYCLE STAND FOR HOLDING BICYCLE ON PASSENGER CAR PARKING LOT, HAS MODULE GUIDE ARRANGED AT CROSS BEAM TO FORM RECESS IN CROSS BEAM, WHERE CROSS BEAM COMPRISES STRING THAT OPENS THEFT BACKUP IN INSERTION DIRECTION OF CROSS BEAM

Priority: DE201010023606 20100614 DE201010052793 20101127

Publication number	Publication date	Application number	Application date
DE102010052793 A1	20111215	DE201010052793	20101127

Probable Assignee: SIEGMANN GOETZ

Assignee(s):(std): SIEGMANN GOETZ

Assignee(s): SIEGMANN

Inventor(s):(std): SIEGMANN GOETZ

International class B62H3/00 E05B71/00
(IPC 8-9):

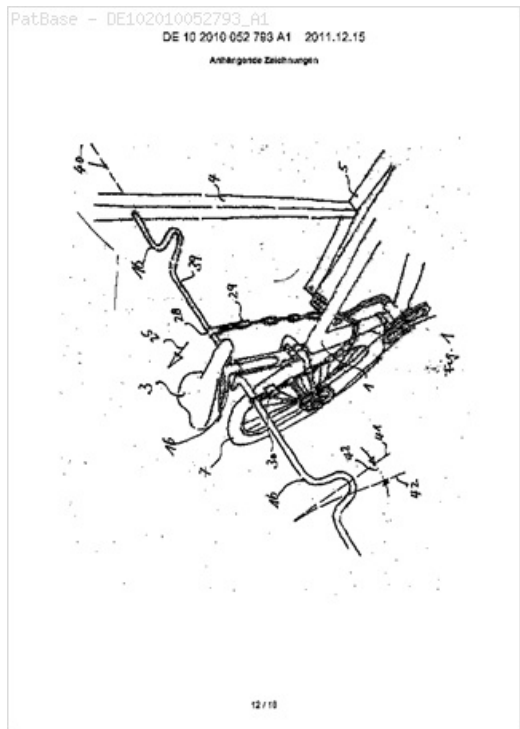
CPC: B62H3/00 E05B71/00

[Classification Explorer](#)

Cited documents: DE2007008767 U, DE2005002804 U, EP1712456 A2, GB992772 A, DE1288472 B,
DE202007008767 U1
DE202005002804 U1
DE9416533 U1, DE4314677 A1,

Abstract:

The stand (4) has a module guide (16) arranged at a top face of the stand. An insertion guide is designed as a seat for a saddle (3) and/or a saddle bracket of a bicycle (1). The stand extends from a transverse axis to a longitudinal axis (40) of a cross beam (39). The module guide is arranged at the cross beam to form a recess in the cross beam. The cross beam comprises a string (29) that opens a theft backup in an insertion direction (25) of the cross beam. The guide and another module guide are displaced around 180 degrees in relation to the longitudinal axis of the cross beam.



6) Family number: 33509061 (EP1712456 A2)

© PatBase

Title: ANTI-THEFT DEVICE FOR BICYCLE

Priority: FR20050003585 20050412

Family:

Publication number	Publication date	Application number	Application date
AT451291 E	20091215	AT20060290609T	20060412
DE602006010933 D1	20100121	DE200660010933T	20060412
EP1712456 A2	20061018	EP20060290609	20060412
EP1712456 A3	20070516	EP20060290609	20060412
EP1712456 B1	20091209	EP20060290609	20060412
ES2337717 T3	20100428	ES20060290609T	20060412
FR2884216 A1	20061013	FR20050003585	20050412
FR2884216 B1	20081212	FR20050003585	20050412

Probable Assignee: MARZAT CLAUDE

Assignee(s):(std): MARZAT CLAUDE

Assignee(s): CLAUDE MARZAT

Inventor(s):(std): MARZAT CLAUDE

Inventor(s): CLAUDE MARZAT

Agent(s): AQUINOV; CLAUDE MARZAT; FANTIN LAURENT

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): B62H3/00 B62H3/02 B62H5/00

CPC: B62H3/00 B62H3/02 B62H5/00 B62H5/001 B62H5/006

[Classification Explorer](#)

Cited documents: JP54153487 A2, JP55111571 A2, WO03008259 A1, JP8226245 A2, DE1288472 B1, DE9309642 U, DE9309642 U1, FR2859161 A1, FR2789646 A1, FR2746360 A1, DE9309642, DE3238404 A1,

Forward Citations: WO13167778 A1, EP3315391 A1,

DE102012020644 B4

EP2876026 A4,

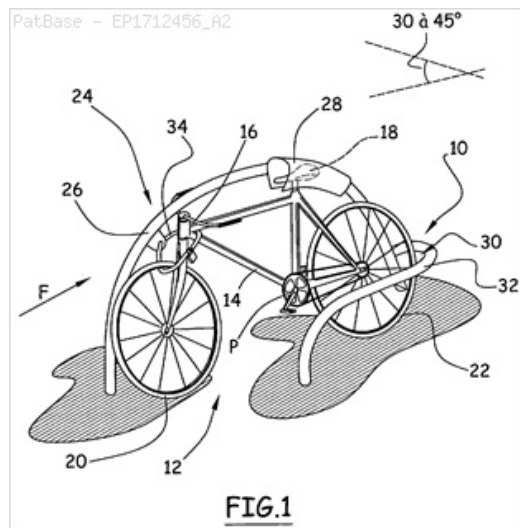
DE102012020644 A1

GB2456365 A1, GB2456365 B2,

DE102010052793 A1

Abstract:

The device has a vertical rack (1) provided with an inverse U-shaped metallic part (2) in a perpendicular plane. The metallic part is fixed at two points (3) in an inclined position from top to bottom and from the front towards the rear of a bicycle. The bicycle is positioned, such that the rear of a saddle is in contact with the metallic part. A fastening device (4) e.g. padlock, assembles the front wheel and a bicycle frame to one of the vertical bars (5) integrated to the rack.



Title: UNATTENDED AUTOMATED BICYCLE RENTAL STATION

Priority: US19970857033 19970515

Family:

Publication number	Publication date	Application number	Application date
US5917407 A	19990629	US19970857033	19970515

Probable Assignee: BLAKEMAN DAVID

Assignee(s):(std): BLAKEMAN DAVID ; DEGANI YUVAL ; SQUIRE JOSHUA H M

Inventor(s):(std): BLAKEMAN DAVID ; DEGANI YUVAL ; SQUIRE JOSHUA H M

International class (IPC 8-9): B62H3/00 B62H5/00 B62H5/20 G07F17/10 G07F7/00

International class (IPC 1-7): B62J3/00 G07F7/00

CPC: B62H2003/005 B62H3/00 B62H5/00 B62H5/20 G07F17/0057 G07F17/10 Y10S194/902 Y10T70/50 Y10T70/5872

US class: 194/205 194/247 194/902 211/5 235/381 235/382 340/432 340/5.9 340/543 340/568.1 340/825.35 70/233 70/57

[Classification Explorer](#)

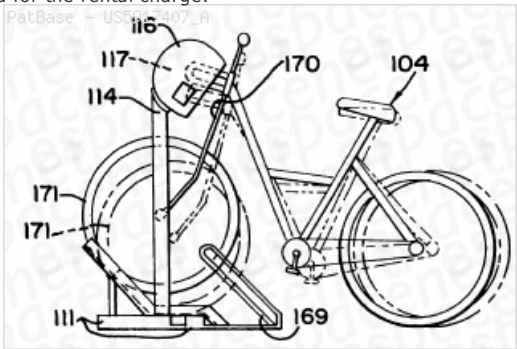
Cited documents: WO9222718 A1, US5278538 A, US4939352 A, US4920334 A, US4891503 A, US4830167 A, US4807453 A, US4727368 A, US4433787 A, US3865245 A, US3815721 A, US3762569 A, GB2045707 A1,

Forward Citations: US10723399 BB, US10723400 BB, CN109064668 A, CN100452099 C, KR20180089431 A, US10641014 BB, KR102099153 B1, US10543752 BB, WO19182559 A1, WO17020134 A1, US10445962 BB, JP5920711 B2, US10370050 BB, WO19095982 A1, US2018354571 AA, US10339750 BA, AU2017204273 BB, US10322761 BB, US10277592 BB, EP1926060 B1, EP2112307 B1, EP3331753 A4, EP2573720 B1, EP2130750 A3, US10179626 BB, US10112667 BB, EP1382519 A3, JP6405358 B2, US10109006 BB, USD829131 S1, US10040498 BB, JP2017073158 A2, WO18015511 A1, US2017364995 AA, US9758203 BB, US9684911 BB, US9569966 BB, US9567025 BB, USD776576 S1, US9514588 BB, KR100944169 B1, US9499223 BB, US2012239248 AA, USD766138 S1, US9415833 BB, USD759570 S1, US9336642 BB, WO16030902 A1, US2013314205 AA, WO10071342 A3, WO03013155 A3, US2012215346 AA, US9169673 BB, AU2009227682 AA, US2015330109 AA, US2014265237 AA,

DE202011050484 U1

US2014311996 AA, USD746760 S1, WO15003070 A1, US2011226708 AA, US2009240575 AA, US2010237987 AA, US2011179837 AA, JP2013218632 A2, US2007221589 AA, US2008221402 AA, US2011161141 AA, US9199681 BB, US2010313614 AA, US2009301976 AA, US2009266673 AA, US2009315737 AA, AU2009253800 BB, US2009031766 AA, US2008094192 AA, US9168975 BA, US2008018440 AA, US2008034820 AA, US2008015886 AA, US2008046754 AA, US2008027794 AA, US2007250444 AA, US2007239627 AA, US2007239478 AA, US2007239465 AA, US9156436 BB, US2015117935 AA, US2015102714 AA, US2007132611 AA, US2007045410 AA, AU2009227682 BB, US2006116132 AA, USD738276 S1, US2005284036 AA, US2005023431 AA, US2005006993 AA, US9076136 BB, US2014277706 AA, US2004145480 AA, AU2009240745 BB, US2003097304 AA, US2003075603 AA, EP2112307 A3, US2002174077 AA, USD730780 S1, USD730781 S1, USD730779 S1, USD730247 S1, WO09080566 A1, US2015074004 AA, US8983704 BB, US2013249252 AA, US2014343773 AA, USD715698 S1, US2014163797 AA, US2014039946 AA, US2011010300 AA, US8738212 BA, US2013268448 AA, US8678205 BB, US8581691 BB, WO13142954 A1, US2013228535 AA, US8536993 BB, US8517162 BB, US8508333 BB, WO06014105 A1, WO06120328 A1, US8429941 BB, EP2573720 A1, US2010245128 AA, US2012191491 AA, USD673902 S1, ES2319030 AA, US2012192601 AA, US2011286789 AA, USD668216 S1, US8272491 BB, WO09146543 A1, FR2856825 A1, FR2885588 A1, WO05001781 A1, WO05055161 A1, US7571628 BB, EP1229193 A1, US6922148 BB, US2009201127 AA, US7423526 BB, US2010163503 AA, WO03013155 A2, US6237051 BA, US6198391 BA, US6708879 BB, US8061499 BB, US6384717 BA, EP1623914 A1, KR100981887 B1, FR2956375 A1, US7946432 BA, FR2909067 A1, ES2346620 AA, USD634674 S1, US7898439 BB, USD632616 S1, USD632617 S1, FR2799785 A1, EP1092615 A1, EP1382519 A2, FR2804779 A1, FR2848691 A1, FR2878349 A1, EP1821266 A1, EP1659531 A1, EP1603081 A1, US7748511 BA, EP2186714 A1, US7784622 BB, WO10071342 A2, US7694830 BA, USD625228 S1, FR2938496 A1, US6154006 A, WO09129623 A1, WO0154080 A1, FR2803935 A1, ES2333635 AA, EP2090501 A1, EP2130750 A2, USD605093 S1, USD600201 S1, USD597896 S1, FR2863089 A1, USD595618 S1, USD595646 S1, WO0249480 A1, USD593006 S1, US7472517 BB, US7474233 BB, EP1927537 A1, US7086589 BB, US7024894 BB,

Abstract:
An unattended, automated bicycle rental system utilizes a bicycle rental station having a locking bicycle rack and a control tower. The bicycle rack has an inventory of rental bicycles of non standard size as inventory and the bicycles are locked in place on the rack in distinct bicycle-receiving bays. The control tower incudes a credit card reader that unlocks a specific bicycle from its bay upon insertion of a bank or credit card and begins timing the period of time in which the bicycle is away from the rental station. When the bicycle is returned, it is placed into the bay and in contact with the rack so that an identification sensor can determine if it is a system bicycle and lock it in place in the rack and bill the credit card for the rental charge.



9) Family number: 63110706 (WO17099396 A1)

Title: LOCKING DEVICE AND BICYCLE STORING DEVICE HAVING SAME

Priority: KR20150173423 20151207 WO2016KR13707 20161125 EP20160873261 20161125

Family:

Publication number	Publication date	Application number	Application date

CN108473172 A	20180831	CN201680071780	20161125
CN108473172 B	20201002	CN201680071780	20161125
DE602016020637 D1	20191002	DE201660020637T	20161125
EP3225515 A1	20171004	EP20160873261	20161125
EP3225515 A4	20180314	EP20160873261	20161125
EP3225515 B1	20190911	EP20160873261	20161125
JP2019505708 T2	20190228	JP20180548635T	20161125
JP6703717 B2	20200603	JP20180548635T	20161125
KR101645609 B1	20160808	KR20150173423	20151207
WO17099396 A1	20170615	WO2016KR13707	20161125

Probable Assignee: SEOHEONG BICYCLERACK CO LTD

Assignee(s):(std): SEOHEONG BICYCLERACK CO LTD

Assignee(s): REWRITABLE BAYIKEUL RACK CO LTD ; SEOHEONG BICYCLERACK CO ; SEOHEONG BICYCLERACK CO LTD GIMPO SI

Inventor(s):(std): PARK HEUNG IL

Agent(s): SHIN KYOUNGHO; ZARDI MARCO

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 DJ 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 KW 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): B62H3/08 B62H5/00 B62H5/16 E05B71/00 E05B71/02

CPC: B62H3/08 B62H5/00 E05B71/00 B62H5/005

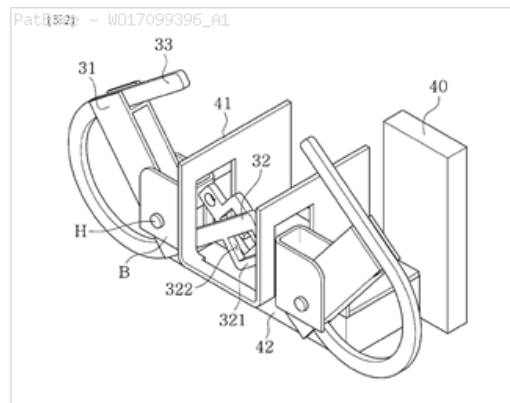
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Cited documents: KR101255695 B1, US2009178446, JP2003237655, US2009178446 AA, JP3016649 U, JP2003237655 A2, JP2002227441 A2, JP2001323674 A2, KR200276450 Y1, KR101255595 B1, KR20150048556 A, JP2006009346 A2, JP2015160503 A2, EP2460715 A1, EP1397285 A1, KR101371132 B1, KR101124198 B1, KR20110056255 A, JP2006137311 A2, CN2329578 Y, CN2177651 Y, CN201703464 U,

Forward Citations: KR101993780 B1, CN110271623 A,

Abstract:

The present invention relates to a locking device and a bicycle storing device having the locking device, and the purpose of the present invention is to enable easy and convenient storage of an object to be stored, such as a bicycle, and to prevent the same from being stolen. The locking device according to the present invention comprises: a fixing portion rotated by the weight of an object to be stored and contained in an empty space, which is formed in the object to be stored; and a locking portion spaced from the fixing portion by a predetermined distance and configured to confirm the user's number input manipulation and to move a stopper, which is provided therein, forwards or backwards, thereby controlling the fixing action by the fixing portion. The bicycle storing device according to the present invention comprises: a support portion, which is seated on the ground, and which has a predetermined vertical height; a bearing frame having one side thereof seated on the upper portion of the support portion and the other side thereof seated on the ground such that the front and rear wheels of the bicycle can be seated on the upper surface thereof; a fixing portion rotatably installed on the bearing frame so as to be rotated, by the weight of a wheel, to a space between spokes formed in the wheel; and a locking portion installed on the bearing frame and configured to confirm the user's number input manipulation and to move a stopper, which is provided therein, forwards or backwards, thereby controlling the fixing action by the fixing portion.



10) Family number: 6164423 (US3865244 A)

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Title: BICYCLE RACK

Priority: US19730406016 19731012 US19750548533 19750210

Family:

Publication number	Publication date	Application number	Application date
NL7601281 A	19760812	NL19760001281	19760209
US3865244 A	19750211	US19730406016	19731012
US3964611 A	19760622	US19750548533	19750210

Probable Assignee: RALPH WALLACE GALEN

Assignee(s):(std): GALEN RALPH W ; RALPH WALLACE GALEN ; VANDERPOEL JOHN A

Assignee(s): RALPH WALLACE GALEN TE CAMBRIDGE EN JOHN ARENT VAN ; RALPH WALLACE GALEN TE CAMBRIDGE EN JOHN ARENT VANDERPOEL TE CONCORD MASSACHUSETTS VER ST V AM

Inventor(s):(std): GALEN RALPH W ; VANDERPOEL JOHN A

International class (IPC 8-9): B62H3/00 E05B71/00

International class (IPC 1-7): A47F7/04 B62H3/00 B62H3/08 E05B21/00 E05B71/00 E05B73/00

CPC: B62H3/00 E05B71/00 B62H3/08 B62H3/10 Y10T70/5881

US class: 211/22 211/24 211/5 211/8 70/235

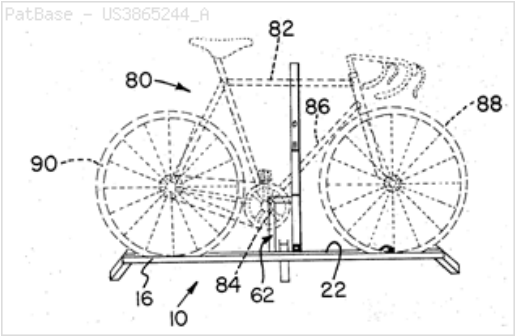
[Classification Explorer](#)

Cited documents: US736731 A, US3865244 A, US3800570 A, US3572796 A, US2856220 A, US1905815 A, US1118497 A, US1051930 A, GB189817868 A, DK1628 C, CS71935 A, US607795 A, US605628 A, US590425 A, US3783659 A, US3762569 A, US3739609 A, US2464683 A,

Forward Citations: IT201700057493 A1

US9840293 BB, US2015360739 AA, WO15193872 A1, US2009266773 AA, FR2773765 A1, US2007144223 AA, US2007034760 AA, US2005194337 AA, US2004177661 AA, WO09066110 A1, FR2981629 A1, US7165689 BB, DE4445468 A1, FR2789646 A1, FR2763554 A1, US6157315 A, US7770419 BB, FR2758518 A1, FR2743048 A1, FR2719015 A1, EP0387962 A1, FR2505751 A1, FR2411109 A1, US4136782 A, GB2321664 A1, GB2265346 A1, GB2150898 A1, US4915257 A, DE4402738 A1, US6027133 A, US5492228 A, US5323915 A, US4433786 A, US9758203 BB, US9566827 BB, US9499223 BB, US9199511 BB, US2014311996 AA, US2007221589 AA, US2014084530 AA, US8763817 BA, WO8602896 A1, US5040385 A, US7784622 BB, US7694830 BA, US4316544 A, US6419096 BA, US3970197 A, US3941406 A, US3964610 A, US3964611 A, FR2369143 A1,

Abstract:
A device is provided for supporting and locking a bicycle. It comprises a channel member for receiving the front and rear wheels of the bicycle, a supporting section which includes a support member fixed with respect to the channel member and a slide member which is slidable relative to the support member toward and away from the channel member, and a pivotally mounted clamping mechanism for clamping a portion of the frame of the bicycle to the slide member against movement relative to the support member. A wheel locking bar is also provided for clamping the front wheel in the channel.



11) Family number: 16943774 (DE29720880 U1) © PatBase

Title: Bicycle rack, PIVOTALLY MOUNTED TO A BICYCLE ATTACK (Machine translation)

Priority: DE19972020880U 19971126

Family:

Publication number	Publication date	Application number	Application date
DE29720880 U1	19980219	DE19972020880U	19971126

Probable Assignee: WELTE RAINER

Assignee(s):(std): WELTE RAINER

Assignee(s): WELTE RAINER 79117 FREIBURG DE

International class B62H1/00 B62H1/02 B62H3/00 B62H5/00
(IPC 8-9):

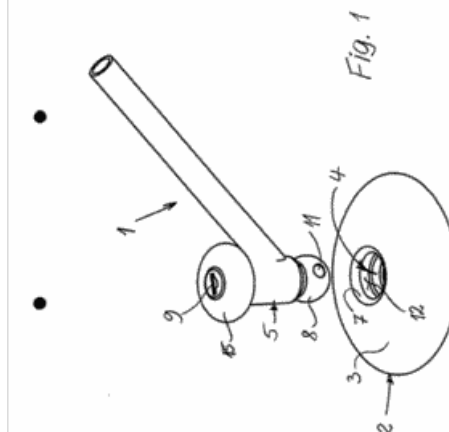
International class B62H5/00 B62H5/16 E05B71/00
(IPC 1-7):

CPC: B62H1/02 B62H3/00 B62H5/00

[Classification Explorer](#)

Forward Citations: CN103481854 A, CN102837768 A, CN102837765 A, FR2856825 A1, WO05001781 A1, WO0001571 A1, FR2780939 A1, EP1093430 B1,

Abstract:
Source: DE29720880 U1 **Machine translation:** (Claim 1) 1 Bicycle stands (1), the tilt and given case can be resolved on a bicycle - with or without auxiliary motor or a motor-cyclist (moped) - attached or affixed, or attacks, and the bike in a use position with seinemvom bicycle away from the free end rests against a mounting surface, whereby a with the mounting surface for the bike festverbindbarer or set of related ground anchors (2) is provided with the free end of the bicycle (1) loesbarkuppelbar is characterized in that the ground anchors (2) an upper side, flat bottom with an upwardly to the top (3) open cavity (4), is that depression (4) directed at the use position abwaerts, and that facing away from the bike free end of the stand (1) einin this depression (4) matching Ha It evo rs prung (5) angeordnetist.

**12) Family number: 9302482** (NL9300794 A)

© PatBase

Title: Vehicle, such as a bicycle, provided with removable handlebars which also act as a lock
Priority: NL19930000794 19930510

Family:	Publication number	Publication date	Application number	Application date
	NL193839 B	20000801	NL19930000794	19930510
	NL193839 C	20001204	NL19930000794	19930510
	NL9300794 A	19941201	NL19930000794	19930510

Probable Assignee: GERRITS CHRETIEN MARIA

Assignee(s):(std): CHRETIEN MARIA GERRITS ; GERRITS CHRETIEN MARIA ; GERRITS CHRUTIEEN MARIA

Assignee(s): CHRUTIEEN MARIA GERRITS

Inventor(s):(std): GERRITS CHRETIEN MARIA ; GERRITS CHRUTIEEN MARIA

Inventor(s): CHRETIEN MARIA GERRITS ; CHRUTIEEN MARIA GERRITS

International class (IPC 8-9): B62H5/00 B62K21/00 B62K21/12 E05B67/00 E05B67/32 E05B71/00

International class (IPC 1-7): B62K21/12 E05B71/0

CPC: B62H5/00 B62K21/12 E05B67/32 E05B71/00

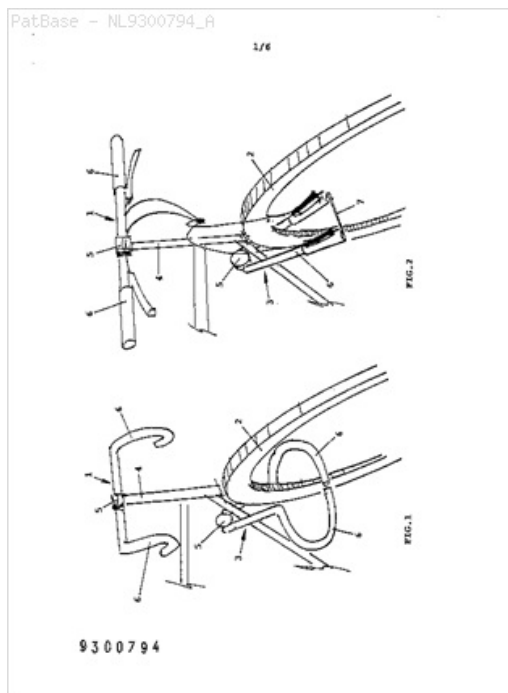
[Classification Explorer](#)

Cited documents: US5133568 A, US3391582 A, NL23895 C, GB503237 A, FR974602 A, DE93904 A, DE8905121 U1, DE843211 A,

Forward Citations: WO03051707 A3, CN104018740 A, CN102454321 A, WO03051707 A2, NL1027108 C2, US7316302 BB,

Abstract:

Vehicle, such as a bicycle, moped or motorcycle, provided with handlebars which essentially comprise two handlebar arms which can each be held by one hand. The handlebars can be removed from the vehicle, and the two handlebar arms can be pivoted with respect to one another. The two handlebar arms can be fixed in such a position with respect to one another that the handlebars can be used as a lock for the vehicle.



13) Family number: 9333815 (NL1002047 C2)

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Title: Bicycle parking stand with lock

Priority: NL19961002047 19960109

Family:

Publication number	Publication date	Application number	Application date
 NL1002047 C2	19970710	NL19961002047	19960109

Probable Assignee: WILLYBRORDUS MARIA SNIJDERS

Assignee(s):(std): WILLYBRORDUS MARIA SNIJDERS

Inventor(s):(std): SNIJDERS WILLYBRORDUS MARIA

Inventor(s): WILLYBRORDUS MARIA SNIJDERS

International class B62H3/00 B62H3/10 B62H5/00
(IPC 8-9):

International class B62H3/10 B62H5/00
(IPC 1-7):

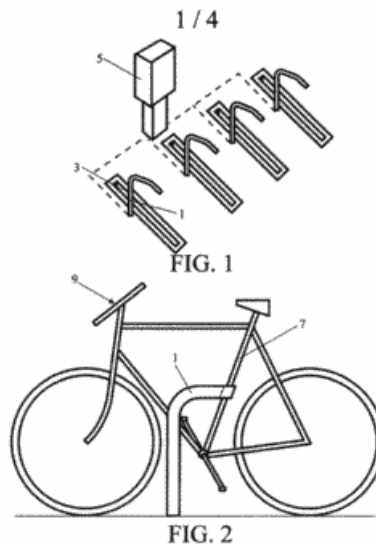
CPC: B62H3/00 B62H3/10 B62H5/00

[Classification Explorer](#)

Forward Citations: CN105243755 A, FR2811285 A1, NL1010343 C2,

Abstract:

The bicycle stand consists of a system of jaws which is mounted at the top end of a tube which is firmly anchored in the ground. The jaws (13) can hinge about a point (17) near their centre and are loaded into the locking position by a spring (19). Rollers (21) are mounted at the ends of the jaws so that the jaws can be pushed easily over a tube of the bicycle frame. The jaws are kept in the closed position by a plug (27) which is pushed between the ends of the jaws by e.g. an electro-magnet.



10 02 647.

14) Family number: 17645509 (DE9116355 U1)

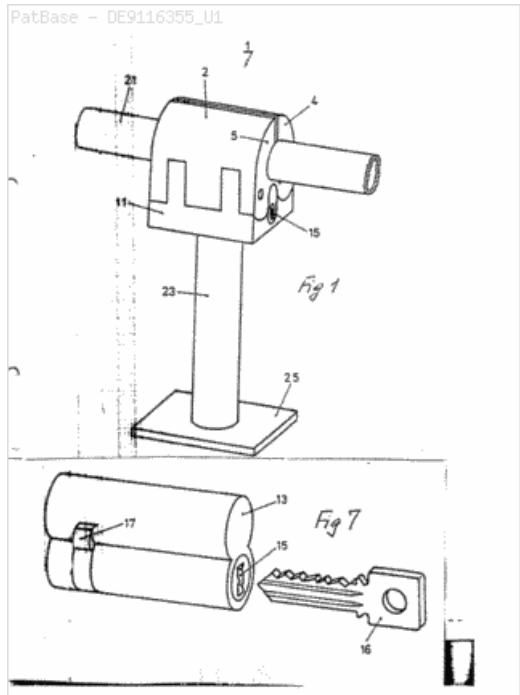
© PatBase

Priority: DE19910016355U 19911217 DE19914141684 19911217

Family:	Publication number	Publication date	Application number	Application date
	DE9116355 U1	19930107	DE19910016355U	19911217

Probable Assignee: HT INVENT ZUERICH CH AG**Assignee(s):** HT INVENT AG ZUERICH CH ; HT INVENT ZUERICH CH AG**International class (IPC 8-9):** B62H3/00 B62H3/02 B62H5/00 E05B71/00 E05B73/00**International class (IPC 1-7):** B62H5/00 E05B71/00 E05B73/00**CPC:** B62H3/02 B62H5/00 E05B71/00 E05B73/00[Classification Explorer](#)**Forward Citations:** EP1547911 A3, EP1221405 A3, DE4409164 A1, FR2772335 A1, EP1547911 A2, DE10100077 A1, EP0582149 A1, EP1221405 A2, DE4409164 C2,**Abstract:**

Source: DE9116355 U1 **Machine translation:** (Claim 1) a lockable device for securing a first mobile object Device for a lockable secure a mobile object, which has at least one belt or rod-shaped profile section (bicycle frame 21, Skihalterbuegel, handle,) with a substantially fixedly arranged staenderoder frame-like device (23) and with a mind disposed locking mechanism (1), wherein that the locking mechanism (1) a forceps or clamp-like grapple with at least one gripper jaw (4.5) for the grip and secure the profile section (21), wherein in the closed mechanism (1) into a resultant open openings (14) back removable lock cylinders (13,15) and inserted by locking in its position is locked.



15) Family number: 49886000 (US2013314205 AA)

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Title: MODULAR VEHICLE SYSTEM, ELECTRIC VEHICLE AND MODULE FOR CONNECTING TO AN ELECTRIC VEHICLE

Priority: DE201010028443 20100430 DE201110003724 20110207 WO2011EP56764 20110428
 WO2012EP52055 20120207 EP20120706215 20120207 US20130984014 20130806
 US20160354314 20161117

Family:	Publication number	Publication date	Application number	Application date
	AU2012215526 AA	20130829	AU20120215526	20120207
	AU2012215526 BB	20151126	AU20120215526	20120207
	AU2012215526 BI	20160128	AU20120215526	20120207
	BR112013019897 A2	20161011	BR20131119897	20120207
	CN103003105 A	20130327	CN201180032940	20110428
	CN103003105 B	20160309	CN201180032940	20110428
	CN103384626 A	20131106	CN201280008035	20120207
	CN103384626 B	20161026	CN201280008035	20120207
	CO6751264 A2	20130916	CO20130186088	20130805
	DE102011003724 A1	20111103	DE201110003724	20110207
	DE502012009291 D1	20170223	DE201250009291T	20120207
	DK2673182 T3	20170501	DK20120706215T	20120207
	EP2563622 A2	20130306	EP20110717596	20110428
	EP2563622 B1	20200722	EP20110717596	20110428
	EP2673182 A1	20131218	EP20120706215	20120207
	EP2673182 B1	20170111	EP20120706215	20120207
	ES2621977 T3	20170705	ES20120706215T	20120207
	IN02562KN2013 A	20140404	IN2013KN02562	20130820
	PL2673182 T3	20170831	PL20120706215T	20120207
	TR201705292 T4	20170421	TR20170005292T	20120207
	TW201200382 A	20120101	TW20110113637	20110420
	TWI549842 B	20160921	TW20110113637	20110420
	US2013314205 AA	20131128	US20120984014	20120207
	US9514588 BB	20161206	US20120984014	20120207
	US10445962 BB	20191015	US20160354314	20161117
	US2017116805 AA	20170427	US20160354314	20161117
	WO11135036 A2	20111103	WO2011EP56764	20110428
	WO11135036 A3	20121108	WO2011EP56764	20110428
	WO12107448 A1	20120816	WO2012EP52055	20120207

Probable Assignee: ENERGYBUS EV

Assignee(s):(std): DOERNDORFER JOHANNES ; ENERGYBUS E V ; FUCHS ANDREAS ; NEUPERT HANNES

Inventor(s):(std): DOERNDORFER JOHANNES ; FUCHS ANDREAS ; NEUPERT HANNES

Inventor(s): HANNES NEUPERT

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; DIENWIEBEL THOMAS; DIENWIEBEL THOMAS DIPL ING; DIENWIEBEL TRANSATLANTIC IP; JAIME EDUARDO DELGADO VILLEGAS; Kalkoff & Partner; KALKOFF AND PARTNER; LEHMANN MARIA ISABEL; SGB EUROPE; SLAYDEN GRUBERT BEARD PLLC; SPRUSON AND FERGUSON; TOLGA CAYLAK; WENZEL AND KALKOFF

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):

B60L11/00 B60L11/18 B60L3/00 B60L50/20 B60L53/16 B60L53/30 B60L53/31 B60L53/65 B60R16/023 B60R16/03 B62H3/00 B62H3/02 B62H5/00 B62M6/40 B62M6/45 E05B71/00 G07C9/00 H02J7/00 H04L12/40

CPC:

B60L2200/12 B60L2270/36 B60L50/20 B60L53/16 B62H2003/005 B62H3/02 B62M6/45 Y02T10/70 Y02T10/7072 Y02T90/14 B60L2240/70 B60L53/31 B60L53/65 B62M6/40 G07C9/00896 H04L2012/40273 Y02T10/72 Y02T90/12 Y02T90/16 Y02T90/167 Y04S30/14 B60L53/30 B62H3/00 B62H5/00

US class:

1/1 340/5.2

[Classification Explorer](#)

Cited documents:

WO11135036 A2, KR20120111687 A, KR20120073163 A, KR20120012256 A, KR20110122023 A, US2010313614 AA, JP2001043442 A2, FR2799785 A1, EP1820722 B2, EP1025541 A1, WO12046950 A1, WO09129623 A1, WO06095092 A1, KR20130128968 A, KR101328744 B1, KR20130079984 A, KR20130007502 A, KR20120114450 A, KR20120011687 A, KR20120036601 A, US2012232761 AA, US2012126747 AA, US2011151715 AA, US2010301810 AA, US2010207771 AA, US2010010698 AA, US2009286414 AA, US2008297108 AA, US2008034820 AA, US2007080662 AA, US9514588 BB, US7950943 BB, US7726160 BB, US5917407 A, KR101178012 B1, KR101121147 B1, KR100989678 B1, KR100912377 B1, JP2006035911 A2, JP2003077070 A2, JP5135804 A2, FR2837781 A1, EP1820722 A1, EP1820721 A1, EP1995109 B1, EP1025541 A2, DE202007002367 U, EP1025541 B1, EP1092615 A1,

DE202007002367 U1

DE102008048657 A1

TWM363155 Y, TW543262 B, EP0709254 B1, KR100968943 B1, EP2261108 A2, WO0223801 A2, WO0123216 A1, EP1997686 A2, DE69501453 T2, EP1454798 A2, EP1241061 A2, EP1995109 A1,

DE102005011487 A1

DE102004042004 A1

DE2503033 A1,

DE102009021720 A1

US2010228405 AA, CN101902063 A, WO06097165 A1, US2004073791 AA, US2002152398 AA, EP0709254 A1, WO06024447 A1, CN201210314 Y, CN101400542 A, WO08157443 A2, US2007220933 AA, GB2455551 A1,

Forward Citations:

EP3230114 B1, EP3471995 A4, EP2915732 B1, FR3076535 A1, WO19063948 A3, CN107223092 A, WO16092110 A1, WO16091319 A1,

DE102014116600 A1

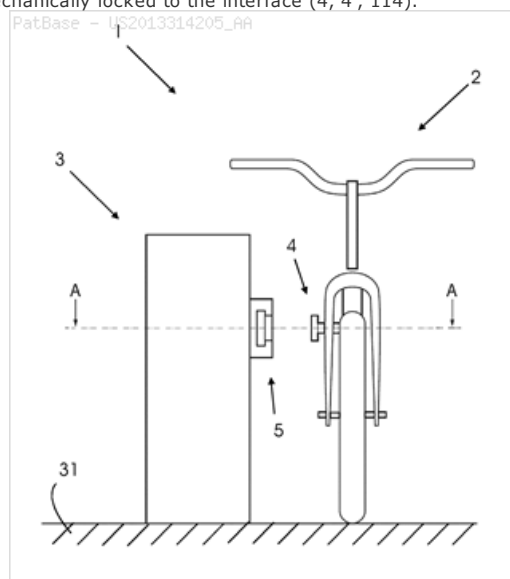
WO14068125 A3, EP2915732 A1, FR2997679 A1, EP3031659 B1, CN103303400 B, WO17032894 A1, US9514588 BB, EP3031659 A1, CN103303400 A,

DE102012222919 A1

US2018208071 AA, US2018237102 AA, US10445962 BB, US10000132 BB, US2017240060 AA, US10543752 BB, JP2018507679 T2, US9682743 BB, US10407116 BB, TWI661953 B, WO19075224 A1, US2016311334 AA, US2016121962 AA, US8930054 BB, US2013231810 AA, US2014371962 AA, EP2913260 A1, US2014179141 AA, US9090171 BB, TWI669883 B, WO14024227 A1, CN105253231 B, CN107672475 A, CN107804416 A, CN105253231 A,

Abstract:

The invention relates to a modular vehicle system, having an electric vehicle (2, 2'), in particular a lightweight electric vehicle, and at least one module (3, 120) which can be connected to the electric vehicle (2, 2'). The electric vehicle (2, 2') has at least one on-board power supply system (13, 101) for supplying energy to an electrical drive unit (114), one or more interfaces (4, 114) which are connected to the on-board power supply system (13, 101) and are intended for connecting at least one module (3, 120), and a first locking means (9) which is arranged on the interface (4, 4', 114). The at least one module (3, 120) has at least one electrical arrangement, a connecting element (6, 6', 121) which can be connected disconnectably to the interface (4, 4', 114) and has the purpose of connecting the electrical arrangement to the on-board power supply system (13, 101), and a second locking means (11) which is arranged on the connecting element (6, 6', 121) and which is designed to engage with the first locking means (9). In order to provide a modular vehicle system (1) which has increased operational reliability and in which the connection to a module (3, 120) can be made in a particularly easy and secure fashion such that it is protected against intervention by unauthorized persons, at least one of the locking means (9, 11) can be moved between a free position and a locking position, wherein in the free position the connecting element (6, 6', 121) can be disconnected from the interface (4, 4', 114), and in the locked position the connecting element (6, 6', 121) is mechanically locked to the interface (4, 4', 114).



Title: BICYCLE PARKING AND STORAGE RACK

Priority: US19920948686 19920922

Family:	Publication number	Publication date	Application number	Application date
	US5238125 A	19930824	US19920948686	19920922

Probable Assignee: SMITH TERRANCE R

Assignee(s):(std): SMITH TERRANCE R

Inventor(s):(std): SMITH TERRANCE R

International class
(IPC 8-9): B62H3/00 B62H3/08 B62H3/12 E05B71/00

International class
(IPC 1-7): A47F7/00

CPC: B62H3/08 B62H3/12 E05B71/00 Y10T70/5009

US class: 211/19 211/22 211/5 70/58

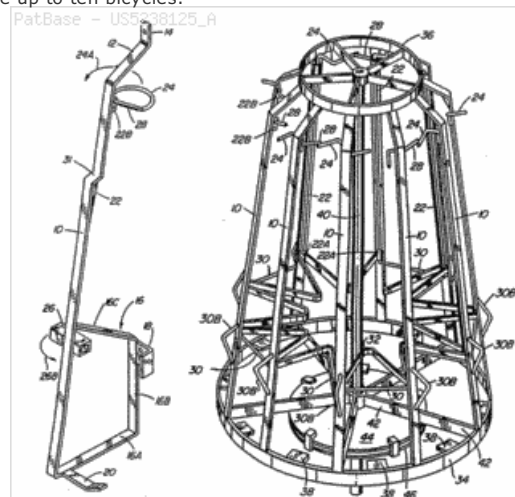
[Classification Explorer](#)

Cited documents: US706718 A, US5036987 A, US4352432 A, US4316544 A, US3918279 A, US3907114 A, US3863767 A, US3820662 A,

Forward Citations: US10750859 BA, US2018141602 AA, USD846450 S1, RU172191 U1, US9532665 BA, US9340245 BB, US2008223800 AA, US2007000962 AA, US2011114143 AA, US2014032447 AA, US2008173596 AA, US2008067209 AA, US2007251964 AA, US2007069534 AA, US2006108296 AA, US2015068994 AA, US2004182797 AA, US2004149878 AA, US2004074851 AA, US2003209582 AA, US2013334150 AA, US8893900 BB, US8844735 BA, US2013092645 AA, US8342339 BB, US2013228535 AA, US7104430 BB, US5653890 A, US5871131 A, US7946432 BA, FR2916415 A1, US7854359 BB, US6843380 BA, US6805247 BB, US6978902 BB, US7318530 BB, US7789247 BB, US7264145 BB, US7806308 BB, US7784656 BB, USD617238 S1, US6419096 BA, USD566628 S1, EP1386832 A1, US5772048 A, US5339610 A, US7104430 B2,

Abstract:

A bicycle parking and storage rack that is designed to receive one or more bicycles in vertical position. Locking means permit the frame and front and rear wheels of a bicycle to be secured to the rack and include a pivotable means to selectively open and close the upper locking means. The rack according to the invention occupies a minimum of space and can be conveniently mounted on a wall or the like, or in a radial arrangement to accommodate up to ten bicycles.



Title: BIKE LOCKING SYSTEM AND METHOD

Priority: US20110445284P 20110222 US20110445285P 20110222 US20120402478 20120222
US20140075854P 20141105 US20140584715 20141229

Family:	Publication number	Publication date	Application number	Application date
	US2012215346 AA	20120823	US20120402478	20120222
	US10641014 BB	20200505	US20140584715	20141229
	US2015330109 AA	20151119	US20140584715	20141229

Probable Assignee: URBAN WHEELY INC

Assignee(s):(std): GINGHER ROBERT G ; TEPPER CHAD ; URBAN WHEELY INC

Inventor(s):(std): BERGOU MIKLOS ; EGAN KEVIN TYLER ; GINGHER ROBERT G ; GINGHER ROBERT GEORGE ; TEPPER CHAD

International class
(IPC 8-9): B62H3/00 B62H3/08 B62H5/00 B62H5/20 E05B71/00 G05B15/02 G06F17/00 G07C9/00 G07C9/33

CPC: B62H2003/005 B62H3/08 B62H5/003 B62H5/20 E05B71/00 G05B15/02 G07C9/00571 G07C9/33 G06F17/00

US class: 700/237 700/237P

[Classification Explorer](#)

Cited documents: EP1604889 A1, EP1229193 A1, KR20100038524 A, EP2315192 A1, US2015074004 AA, US2014265237 AA, US2013255336 AA, US2012196631 AA, US2012191491 AA, US2011037240 AA, US2010245128 AA, US2010228405 AA, US2009315737 AA, US2009266673 AA, US2009240575 AA, US2009201127 AA, US2008033640 AA, US2007239465 AA, US2007164065 AA, US2007143207 AA, US2005280555 AA, US2005033634 AA, US2004073440 AA, US2003144890 AA, US2003071097 AA, US2002174077 AA, US10249128 BA, US9862440 BB, US9056640 BB, US8763870 BB, US8678205 BB, US8508333 BB, US8437873 BB, US7946432 BA, US7898439 BB, US7726160 BB, US7571628 BB, US7481027 BB,

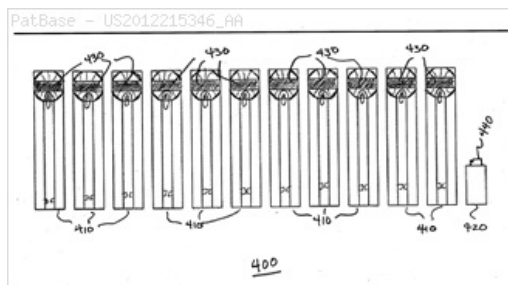
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Forward Citations:

EP3392096 B1, US2016217510 AA, CN107558826 B, EP3392096 A1, CN107558826 A, US2016269418 AA, US10632631 BB, US10497241 BA, US10265872 BB, WO18232886 A1, US10096219 BA, GB2519887 B2, CN105894676 A, EP3118602 A1, US9336642 BB, US9320364 BB, US2014277706 AA, US2015008236 AA, WO15193872 A1, US2015074004 AA,

Abstract:

An automatic parking station for bicycles is disclosed comprising at least one interactive workstation and a plurality of parking slots, in which parking stations are installed in a plurality of sites within a city or a limited geographical area and are electronically tied together through an interactive networked computing system. The station features countermeasures to prevent vandalism of the locked bicycle. The computing system provides the ability for users to reserve spaces and directs users to their reserved space.



18) Family number: 46399898 (WO11073986 A1)

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Title: PARKING AND LOCKING DEVICE FOR BICYCLES

Priority: IL20090202779 20091217

Family:

Publication number	Publication date	Application number	Application date
IL202779 A0	20100630	IL20090202779	20091217
WO11073986 A1	20110623	WO2010IL01067	20101216

Probable Assignee: ZVI ROSENBERG

Assignee(s):(std): ROSENBERG ZVI ; ZVI ROSENBERG

Inventor(s):(std): ROSENBERG ZVI

Agent(s): R ZANGO AND CO ET AL

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

International class A01D B62H3/08 B62H5/00 E05B71/00
(IPC 8-9):

CPC: B62H3/08 B62H5/00

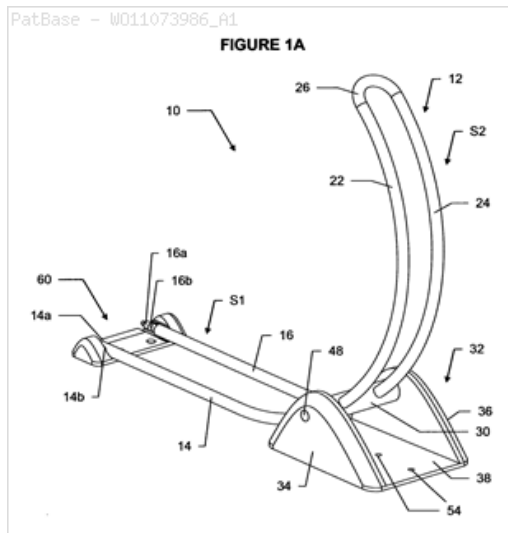
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Cited documents: US5735410 A, US2005262909 AA, US3785500 A, US5743411 A,

Forward Citations: CN110374423 A, CN103640646 B, CN103640646 A,

Abstract:

The present invention is directed to a bicycle device adapted to allow parking and locking of a bicycle by securing the bicycle's frame to the device. The bicycle parking and locking device generally comprises at least: A track like structure adapted to hold a bicycle's front wheel and halt it from moving forward, said track like structure comprises free ends; A first ground anchored base adapted to support said track like structure and to allow its movement via an axle; A second ground anchored base adapted to be attach to said free ends of track like structure in a standby position; and A ground anchoring substance adapted to fix firmly said first and second bases to the ground.



Title: BILEVEL BICYCLE STORAGE SYSTEM

Priority: DE19982003435U 19980227 DE200420009779 20040628 US20040001935 20041202
US20060646005 20061227

Family:

Publication number	Publication date	Application number	Application date
DE29803435 U1	19980709	DE19982003435U	19980227
EP0939025 A1	19990901	EP19980112748	19980709
NL1011042 C2	19990830	NL19991011042	19990115
US2005284036 AA	20051229	US20040001935	20041202
US7472517 BB	20090106	US20040001935	20041202
US2007107322 AA	20070517	US20060646005	20061227
US7481027 BB	20090127	US20060646005	20061227

Probable Assignee: JOSTA TECHNIK FAHRRADHALTER UN

Assignee(s):(std): BLUME ERNST ; JOSTA TECHNIK ; JOSTA TECHNIK FAHRRADHALTER UN ; JOSTA TECHNIK FAHRRADHALTER UND UEBERDACHUNGEN ERN

Assignee(s): JOSTA TECHNIK FAHRRADHALTER UND UEBERDACHUNGEN ERNST BLUME ; JOSTA TECHNIK FAHRRADHALTER UND UEBERDACHUNGEN ERNST BLUME 48153 MUENSTER DE ; JOSTATECHNIK FAHRRADHALTER U UEBERDACHUNGEN ERNST BLUME 48153 MUENSTER DE

Inventor(s):(std): BLUME ERNST

Inventor(s): ERNST BLUME

Agent(s): BARLOW TIMOTHY M; LAW OFFICE OF TIMOTHY M BARLOW; LAW OFFICES OF TIMOTHY M BARLOW; TIMOTHY M

Designated states: AT BE CH DE DK FR LI NL SE

International class (IPC 8-9): A47F7/00 B62H3/00 B62H3/04 E04H1/00 E04H14/00 E04H3/00 E04H5/00 E04H6/00 E04H9/00

International class (IPC 1-7): B62H3/00 B62H3/04 B62H3/06 B62H3/08 E04H1/00 E04H6/00 E04H6/42

CPC: B62H3/04 B62H3/08 B62H3/12 B62H3/00 E04H6/005 Y10S52/14 Y10T70/5872

US class: 211/17 211/20 414/229 52/64 52/79.1 52/79.4 52/79.400 52/791 52/DIG.14 70/233 52/DIG.014

[Classification Explorer](#)

Cited documents: US6177879 B1, US7150449 BA, US6161702 A, US6637602 BB, US3907113 A, US6729478 BA, US6237781 BA, US5199843 A, US5278538 A, US6177879 BA, US3945159 A, US4438606 A, US4015718 A, US4920334 A, US3883002 A, US5917407 A, US6779310 BB, JP8226245 A2, DE3822455 A1, DE19629437 A1,

Forward Citations: US10220898 BA, US9776790 BB, US2016333601 AA, US2016332812 AA, USD691522 S1, US9278721 BB, US2015008197 AA, WO12134346 A1, USD632228 S1, US2015330109 AA, US10641014 BB, WO18196492 A1, US10112548 BB, US2018162289 AA, US2007221589 AA, US9011067 BA, US8820004 BA, US2010135756 AA, US2010163503 AA, US7922009 BA, US7784622 BB, US7694830 BA, CN109178156 A, NL2009465 C2, NL2006094 C2, EP2481656 B1, US10161178 BA, EP3165434 B1, JP6408016 B2, US9908576 BB, JP2017505392 T2, EP3165434 A1, WO16179519 A1, USD768545 S1, US9381964 BB, KR101614345 B1, US2015096335 AA, US2010204823 AA, US9199681 BB, US2015102714 AA, TWI473735 B, US8950592 BA, NL2009465 C, US8468745 BB, US8437873 BB, NL2006094 C, EP2481656 A1, FR2960845 A1, USD632617 S1, USD625228 S1, FR3093219 A1, CN109795587 A, USD880005 S1, US10392064 BB, US10179620 BB, JP6422155 B2, JP2016014311 A2, US9932748 BB, GB2553980 A1, ES2627610 AA, WO16168896 A1, WO13119185 A1, WO15108324 A1, WO09066110 A1, NL2005590 C2, EP2447136 B1, EP1479598 A3, EP2957489 B1, EP1462348 A3, EP2957489 A1, EP2447136 A1,

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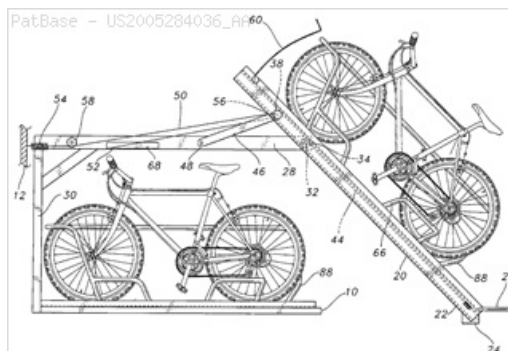
NL2005590 C, EP1479598 A2, US7946432 BA, EP1980475 A1,

DE202008010223 U1

EP1992551 A1, EP1462348 A2, AT16540 U1, CN106672118 A, US8243015 BB, FR2958256 A1, DE10013787 A1,

Abstract:

A multiple-level bicycle storing system includes a framework with a vertical support and a mounting frame defining upper and lower storing spaces. Each storing space includes a receiver to hold a bicycle. The upper receiver has a distal end, a proximal end and a U-shaped channel along the top surface. The upper receiver is pivotally attached to the mounting frame, enabling the upper receiver to tilt from horizontal to a loading and unloading position. The proximal end of the upper receiver is located near the floor when pivoted into the loading and unloading position. The upper receiver pivots up from the loading and unloading position into the horizontal storage position. The bicycles and the storing spaces are enclosed, and a floor separates the lower storing space from the upper storing space. Each storing space includes a lockable door and conceals the pivot point, upper receiver and bicycles inside the enclosure.

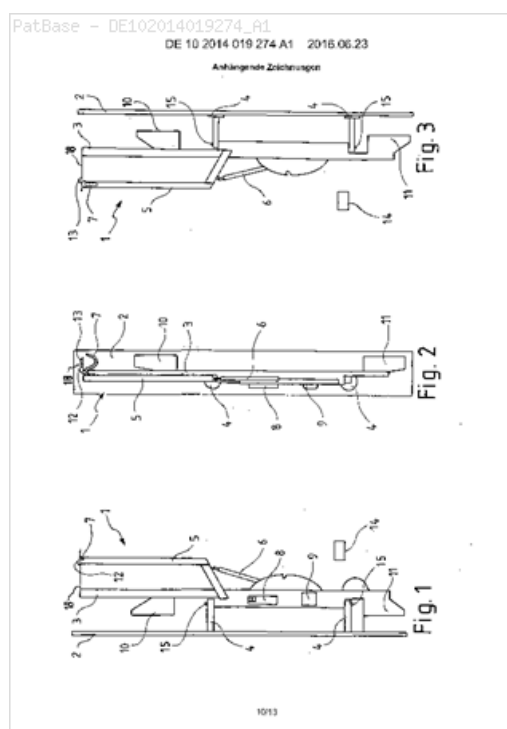


Title: LIFT FOR AT LEAST ONE ZWEIRAD (Machine translation)**Priority:** DE201410019274 20141223

Publication number	Publication date	Application number	Application date
DE102014019274 A1	20160623	DE201410019274	20141223
DE102014019274 B4	20191219	DE201410019274	20141223

Probable Assignee: BICYCLEJACK UG HAFTUNGSBESCHRAENKT**Assignee(s):(std):** BICYCLEJACK UG HAFTUNGSBESCHRAENKT**Inventor(s):(std):** MEYER WERNER**Agent(s):** PATENTANWALTE JABBUSCH SIEKMANN AND WASILJEFF**International class**
(IPC 8-9): B60R9/10 B62H3/00**CPC:** B60R9/10 B62H3/00[Classification Explorer](#)**Cited documents:** EP1211134 A2, US2012312760 AA, DE4438924 A1, DE202005016436 U,
DE202005016436 U1
DE4210902 A1, DE2458502 A1, DE19703157 A1, AT514139 A2,**Abstract:**

Source: DE102014019274 A1 **Machine translation:** In a lifting device for at least a two-wheeler, in particular a bicycle, with at least one pivotally stored lift arm, with at least one arranged on the lifting arm receiving for at least one wheel, with at least one lift arm associated lifting element and with at least one basic body for vertical mounting the lifting device is essential to the invention provided that it is the lifting element is an electrical drive.

**Title:** CYCLE PARKING, STORAGE AND SHARING**Priority:** AU20150903317 20150817 WO2016AU00283 20160816

Publication number	Publication date	Application number	Application date
AU2016308666 AA	20180329	AU20160308666	20160816
EP3337716 A1	20180627	EP20160836259	20160816
EP3337716 A4	20190501	EP20160836259	20160816
WO17027902 A1	20170223	WO2016AU00283	20160816

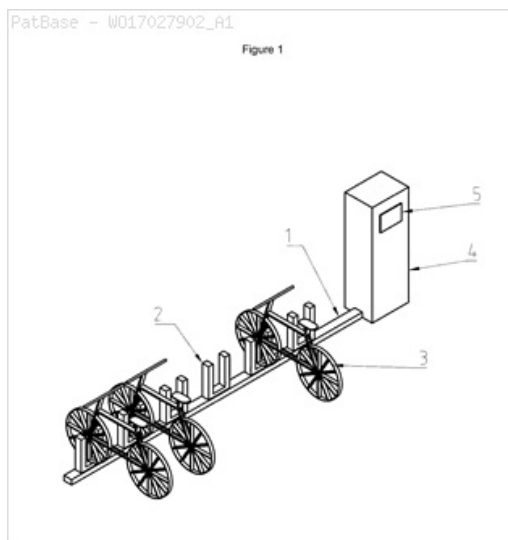
Probable Assignee: AGENTS OF ZOOM PTY LTD**Assignee(s):(std):** AGENTS OF ZOOM PTY LTD**Inventor(s):(std):** AARONS PHILIP ANTONY ; REID ALAN DONALD**Agent(s):** AGENTS OF ZOOM PTY LTD; BUCKNELL DUNCAN; COOKSON BARBARA ELIZABETH**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR 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): B62H3/00 B62H3/04 B62H3/12 B62H5/00 E05B71/00**CPC:** A63B2069/165 B62H2003/005 B62H3/04 B62H3/08 B62H3/12 B62M6/40 E05B71/00

Cited documents: US2010089846 AA, EP2639144 A1, US2002109130 AA, US2009250564 AA, ES2351814 AA, JP3156813 U, DE19734704 A1, WO10148506 A1, WO9809254 A2,

Forward Citations: WO20084658 A1, CN107680282 A, CN107767660 A, CN107845254 A,

Abstract:

A stand for a cycle comprising a base, a guide adapted to engage with an axle of a cycle, and a locking mechanism to lock the axle of the cycle in reversible engagement with the guide.



22) Family number: 1227267 (US3934436 A)

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Title: STANDARD FOR PARKING AND LOCKING A BICYCLE

Priority: US19740456359 19740329

Family:	Publication number	Publication date	Application number	Application date
	US3934436 A	19760127	US19740456359	19740329

Probable Assignee: CANDLIN FRANCIS T

Assignee(s):(std): CANDLIN FRANCIS T ; CANDLIN MICHAEL D

Inventor(s):(std): CANDLIN FRANCIS T ; CANDLIN MICHAEL D

International class
(IPC 8-9): B62H3/00

International class
(IPC 1-7): B62H5/00 E05B73/00

CPC: B62H3/00 Y10T70/5876

US class: 211/5 70/234

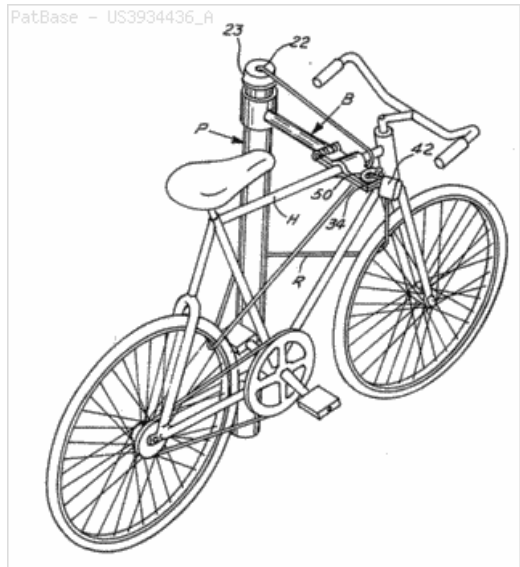
Classification Explorer

Cited documents: US77686 A, US606118 A, US3827773 A, US3762569 A, US3739609 A, US2725853 A, US2673771 A, US2655191 A, US1527082 A, US1064200 A,

Forward Citations: US10723400 BB, US10112667 BB, US9840293 BB, US9758203 BB, US9505124 BB, US9499223 BB, US2014311996 AA, US2007220933 AA, GB2270662 A1, DE4014158 A1, US2009178984 AA, US6539759 BB, US2007144223 AA, US9145181 BB, US2006032276 AA, US2004211115 AA, US2004177661 AA, US2004093918 AA, US2004074851 AA, US2004074141 AA, US2004011096 AA, US2015034573 AA, FR2867746 A1, FR2981629 A1, US8353488 BB, AT404711 B, WO06020472 A2, GB2338464 A1, US2011079564 AA, US6648148 BA, US6269958 BA, US6082552 A, US4286444 A, WO9506578 A1, WO9211174 A1, WO8602896 A1, WO8505338 A1, NL1006784 C2, DE4315440 A1, US7854331 BB, US6805247 BB, US7770419 BB, US7726160 BB, USD620845 S1, US5447241 A, US4794770 A, DE3238404 A1, FR2746360 A1, FR2723716 A1, FR2666775 A1, FR2640930 A1, EP0387962 A1, FR2425970 A1, US6751992 BA, US7225933 BA, GB2270662 B2, GB2146297 A1, US4023387 A, US4691541 A, US4807453 A, DE4014158 C2, DE3544286 A1, US6138972 A, US5983685 A, US5887461 A, US5638706 A, US5553715 A, US5103658 A, USD518419 S1, EP0725742 B1, USD477255 S1,

Abstract:

A standard for parking and locking a bicycle including an upright post, a clamp depending from the post to grip the frame of a bicycle and hold it alongside the post and a wire rope retractably carried within the post to be extended therefrom to lash the wheels and frame of the bicycle together. The clamp and cable may be locked together by a padlock to prevent the bicycle from being stolen.



23) Family number: 14229064 (NL1012393 C2)

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Title: BICYCLE SHED, COMPRISES STALLS FORMED BY PAIRS OF PARALLEL PARTITION WALLS FOR KEEPING BICYCLES IN VERTICAL POSITION

Priority: NL19991012393 19990621

Family:	Publication number	Publication date	Application number	Application date
	NL1012393 C2	20001222	NL19991012393	19990621

Probable Assignee: MEUWESE LUCAS LEONARDUS PAULUS

Assignee(s):(std): MEUWESE LUCAS LEONARDUS PAULUS ; PRONK MAARTEN

Assignee(s): LUCAS LEONARDUS PAULUS MARIA MEUWESE ; MAARTEN PRONK

Inventor(s):(std): MEUWESE LUCAS LEONARDUS PAULUS ; PRONK MAARTEN

Inventor(s): LUCAS LEONARDUS PAULUS MARIA MEUWESE ; MAARTEN PRONK

International class
(IPC 8-9): B62H3/00

International class
(IPC 1-7): B62H3/00

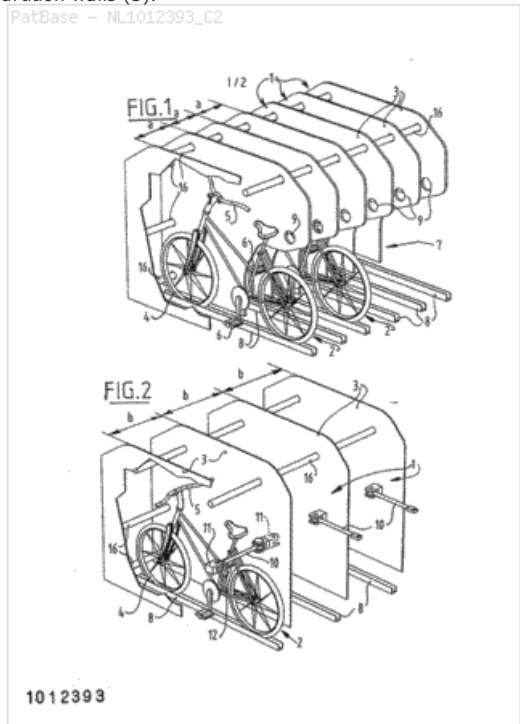
CPC: B62H3/00 B62H3/08

[Classification Explorer](#)

Forward Citations: WO20148240 A1, EP3683126 A1, WO19038644 A1, US9199681 BB, ES2386270 AA,

Abstract:

Bicycles (2) are supported vertically in stalls formed by pairs of parallel partition walls (3).



Title: MOTOR-DRIVEN VEHICLE AND ITS CARD KEY DEVICE
Priority: JP19980274320 19980907 JP19980274320 19980909 JP19980296065 19981002
IN1999DE01114 19990817

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

Probable Assignee: HONDA GIKEN KYOGO KABUSHIKISHIKI KAISHA
Assignee(s):(std): HONDA GIKEN KOGYO KK ; HONDA MOTOR CO LTD
Assignee(s): HONDA GIKEN KOGYO KABUSHIKI KAISHA ; HONDA GIKEN KYOGO KABUSHIKISHIKI KAISHA ; HONDA MOTOR CO
Inventor(s):(std): HATANAKA KAORU ; HIDEITSUNE NAKURA ; HIROYUKI SHIMURA ; KAORU HATANAKA ; NAGURA HIDENORI ; NAKURA SHUSUKE ; NIIMURA HIROYUKI ; SHIMMURA HIROYUKI
Inventor(s): HIDEITSUNE NAKURA ; HIROYUKI SHIMMURA ; KAORU HATANAKA ; NAKURA HIDEITSUNE ; SHIMURA HIROYUKI
Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
International class (IPC 8-9): B60R25/00 B60R25/04 B60R25/08 B60R25/10 B60R25/24 B62H5/00 B62H5/08 B62H5/16 B62H5/20 B62M23/02 B62M6/00 B62M6/80 E05B49/00 G07B15/00 G07C9/00 G07F7/00
International class (IPC 1-7): B60R25/00 B60R25/04 B60R25/08 B62H5/00 B62H5/08 B62H5/16 B62H5/20 B62M11/00 B62M23/02 E05B49/00 G07C5/08
CPC: B60L2200/12 B60L50/20 B60L53/80 B62H2003/005 B62H5/00 B62H5/001 B62H5/20 B62M6/90 G07B15/00 G07C9/22 G07F17/0042 G07F17/0057 Y02T10/70 Y02T10/7072

[Classification Explorer](#)

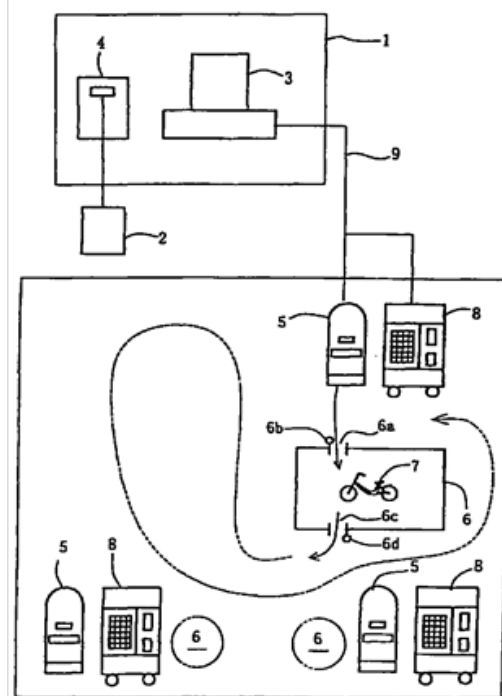
Cited documents: JP8101993, JP63199186, JP6247260, JP9071275, JP9207847, US4805722 A, JP9071275 A2, FR2741585 A1,

Forward Citations: TWI661455 B, CN109427148 A, CN109533104 A, JP4878964 B2, JP2004224157 A2, JP2004157876 A2, JP2003346240 A2, JP5168747 B2, JP2016181246 A2, JP2004210230 A2, EP2716531 B1, JP2014211077 A2, JP6162696 B2, JP5741222 B2, JP3879970 B2, JP2002173064 A2, JP5756438 B2, US9577456 BB, US9424697 BB, JP4115731 B2, JP2003296814 A2, JP2014529982 T2, JP5549479 B2, JP5920711 B2, JP2012250552 A2, JP2013218632 A2, WO12165220 A1, JP2013032695 A2, JP2012050266 A2, JP2008057166 A2, DE10159583 B4, US6690301 BB, JP2002227448 A2, ES2368407 AA, CN108122338 A, CN107689116 A, WO20044054 A1, EP2913261 B1, EP2856768 B1, NL2003545 C2, EP2573720 B1, EP2781397 B1, AU2017203823 BB, EP1092618 A3, EP2781440 B1, JP2014206045 A2, US9799929 BB, EP2722825 A3, AU2014201675 BB, US9358955 BB, CN104210576 A, WO13179208 A1, WO06024738 A3, US2013338865 AA, FR2869265 A1, EP1588930 A1, CN104540646 A, EP2861385 A4, FR3003534 A1, EP2913261 A1, WO12076374 A3, FR3003536 A1, EP2781397 A1, EP2781440 A1, US8760112 BB, US8517162 BB, WO06014105 A1, WO06024738 A2, EP2573720 A1, FR2978414 A1, US8272491 BB, WO03078768 A1, US8061499 BB, EP1623914 A1, NL2003545 C, EP1092618 A2, FR2873654 A1, USD594787 S1, US10573103 BB, EP2737597 B1,
DE102018203597 A1
US10209090 BB, EP2737594 B1, US10186094 BB, EP2737595 B1, US9908506 BB, WO13016554 A2, EP2737597 A4, EP2737594 A4,
DE102011082982 A1
DE102008020951 A1
CN108399669 B, CN108399669 A, CN105593912 A, CN104933809 A, CN102795198 A, CN102392558 A, CN103260937 B, CN103260937 A, CN102392558 B,

Abstract:

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

FIG. 1

**25) Family number: 31729876** (DE202004009779 U1)

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Title: DOUBLE PARKING RACK FOR BICYCLES HAS HOUSING OVER UPPER AND LOWER LOCATIONS WITH LOCKING DOOR AND HOLDING RAIL SLIDING AND PIVOTING OUT ABOUT PIVOT POINT

Priority: DE200420008876U 20040604 DE200420009779U 20040622

Publication number	Publication date	Application number	Application date
DE202004009779 U1	20050203	DE200420009779U	20040622

Probable Assignee: JOSTA TECHNIK GMBH

Assignee(s):(std): JOSTA TECHNIK GMBH

International class (IPC 8-9): B62H3/00

International class (IPC 1-7): B62H3/00

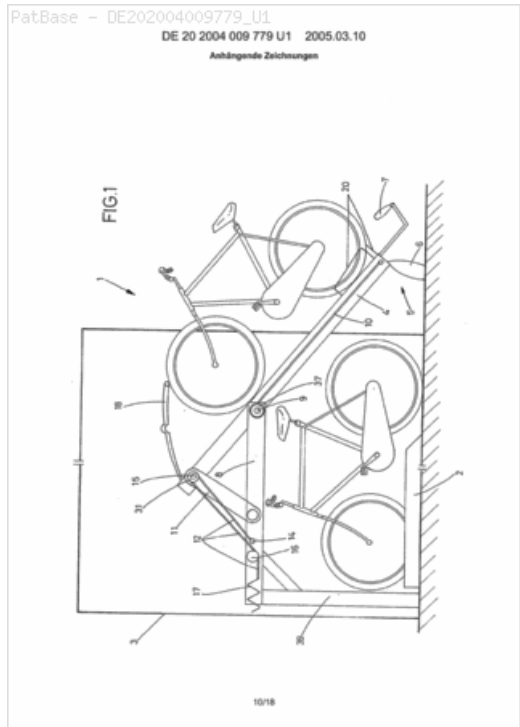
CPC: B62H3/00

[Classification Explorer](#)

Forward Citations: CN109334826 A, CN103863441 B, CN103863441 A, US8950592 BA, US7946432 BA,

Abstract:

Both lower and upper locations for bicycles have a surrounding housing (3), with a locking door (21). The upper holding rail (4) moves longitudinally on the fixed pivot point (26) into the storage position within the housing. In the loading and unloading positions the rail slides out from the front edge of the housing (3). A spring tensioned clamping arm holds the front wheel of the upper bicycle, and a rear stop assembly (5) holds the rear wheel. A motorized lifting system is included.



26) Family number: 60818320 (US2017240231 AA)

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Title: TRANSITION AREA BICYCLE RACK
Priority: US20140992483P 20140513 WO2015US30306 20150512 US20150310383 20150512
Family:

Publication number	Publication date	Application number	Application date
AU2015259406 AA	20170105	AU20150259406	20150512
CA2948496 AA	20161108	CA20152948496	20150512
EP3142917 A1	20170322	EP20150792434	20150512
EP3142917 A4	20180307	EP20150792434	20150512
US2017240231 AA	20170824	US20150310383	20150512
US9988117 BB	20180605	US20150310383	20150512
WO15175490 A1	20151119	WO2015US30306	20150512

Probable Assignee: ROBINSON MARCUS
Assignee(s):(std): ROBINSON MARCUS
Inventor(s):(std): ROBINSON MARCUS
Agent(s): CRAIG ROYAL W; MACRAE AND CO; PATENT ATTORNEY SERVICES; ROBINSON SIMON JOHN
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

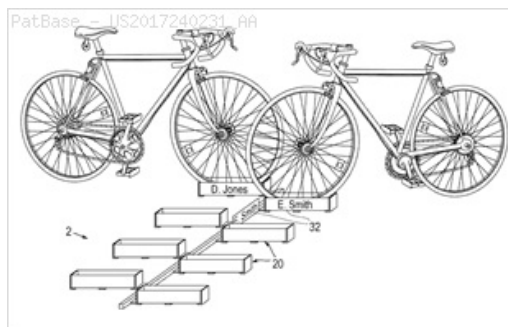
International class A47F7/04 B62H3/00 B62H3/02 B62H3/08
(IPC 8-9):
CPC: B62H2700/00 B62H3/00 B62H3/04 B62H3/08
US class: 1/1 211/21

[Classification Explorer](#)

Cited documents: US7150359 BA, JP2009262600 A2, JP2007247270 A2, FR2211912 A5, CH146158 A, US2017369114 AA, US2017197557 AA, US2016280296 AA, US2015224837 AA, US2015083679 AA, US2013270201 AA, US2012241392 AA, US2011108592 AA, US2009120984 AA, US2007256989 AA, US2006091096 AA, US2005061842 AA, US9555744 BA, USD759570 S1, US9180821 BA, USD737196 S1, US8418902 BB, US8413824 BB, USD669398 S1, US7784622 BB, US7510359 BB, USD585793 S1, US7261229 BA, US7240816 BB, US7021461 BA, US6695268 BA, US6679388 BA, US6491195 BA, US5884826 A, US5749474 A, US5743411 A, USD391903 S1, USD391902 S1, US5690260 A, US5673834 A, US5664717 A, US5518159 A, US5447241 A, US5417629 A, US5246120 A, US5169042 A, US5094373 A, US4352432 A, USD264325 S1, USD263945 S1, US4050583 A, US4026546 A, US3994425 A, US3942646 A, US3912139 A, US3883002 A, US3785500 A, US3701438 A, US3653697 A, US3599798 A, US3550892 A, US2815972 A, US2807370 A, US2398091 A, US2197789 A, US2179089 A, US2123695 A, US2008115 A, US1586854 A, US1576716 A, US1047048 A, US811393 A, US803196 A, US639991 A, US608464 A, US593728 A, US581585 A, US577663 A, US508627 A, US420761 A, US369494 A, US20974 A,

Forward Citations: CN108682051 A, US10413797 BB, USD855008 S1,

Abstract:
A bicycle rack for use in providing temporary parking for a large number of bicycles, comprising a rail and a plurality of tire trays evenly spaced, along said rail and pivotal in motion from a parallel position to said rail to a deployed position, substantially perpendicular to said rail, each said tire tray including a recessed wheel bed for seating a wheel of a bicycle therein. The wheel beds are adjustable to accommodate bicycles with tires of various widths. The tire trays have channels for holding printed signs. The rack is compact, modular, and stable. The rack breaks down for easy transport and storage and facilitates both, the rapid setup and breakdown of an orderly temporary parking area for a large number of bicycles. The rack is well suited for multisport races where an orderly transition area significantly enhances the profile of the event.



27) Family number: 30167744 (EP0933288 A2)

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Title: PARKING DEVICE FOR TWO-WHEELER

Priority: IT1998MI00152 19980128

Family:

	Publication number	Publication date	Application number	Application date
	DE69924770 D1	20050525	DE19996024770T	19990125
	DE69924770 T2	20060309	DE19996024770T	19990125
	EP0933288 A2	19990804	EP19990101382	19990125
	EP0933288 A3	20010321	EP19990101382	19990125
	EP0933288 B1	20050420	EP19990101382	19990125
	IT1298499 B1	20000112	IT1998MI00152	19980128
	ITMI980152 A1	19990728	IT1998MI00152	19980128

Probable Assignee: PUBLILOCK SRL

Assignee(s):(std): PUBLILOCK S R L ; PUBLILOCK S R L GALLARATE ; VENEGONI ROSANNA

Inventor(s):(std): VENEGONI ROSANNA

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

International class
(IPC 8-9): B62H3/00 B62H3/04

International class
(IPC 1-7): B62H3/00 B62H3/04

CPC: B62H3/00 B62H3/04 B62H5/141

[Classification Explorer](#)

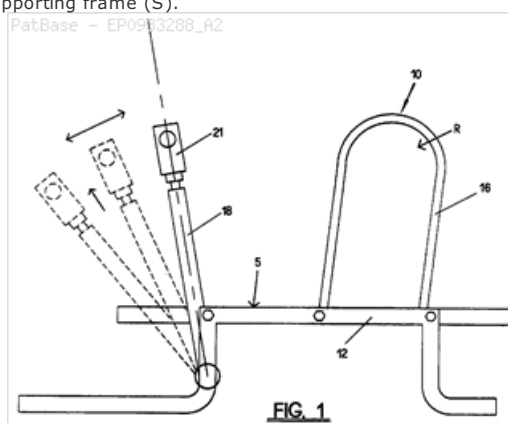
Cited documents: NL31266 C, US3920126 A, US3887075 A, US3762569 A, US4015718 A, NL31266,

Forward Citations: US10574085 BB, US10573953 BB, USD863987 S1, USD863988 S1, USD863076 S1, USD863075 S1, USD863074 S1, US10424147 BB,

IT201600083082 A1

Abstract:

The parking device for two-wheeled vehicles comprises a supporting frame (S), a housing (R) adapted to removably receive a wheel of the vehicle, a pair of arm members (17,18) connected to each other and each jointed at one end to said supporting frame (S), a bolt (20) adapted to slide in a hollow member (19) provided at the free end of one of said arm members (17,18) without being disengageable therefrom, a lock (21) arranged at the free end of the other one of said arm members (17,18) and adapted to cooperate with said bolt (20) for securing the vehicle to the supporting frame (S).



28) Family number: 16943982 (DE29714504 U1)

© PatBase

Title: Bicycle Parking FACILITY WITH LOW SPACE REQUIREMENTS AND LIFTING AID BY MEANS OF TENSION SPRINGS OR COMPRESSION SPRINGS (Machine translation)

Priority: DE19972014504U 19970814

Family:

	Publication number	Publication date	Application number	Application date
	DE29714504 U1	19980226	DE19972014504U	19970814

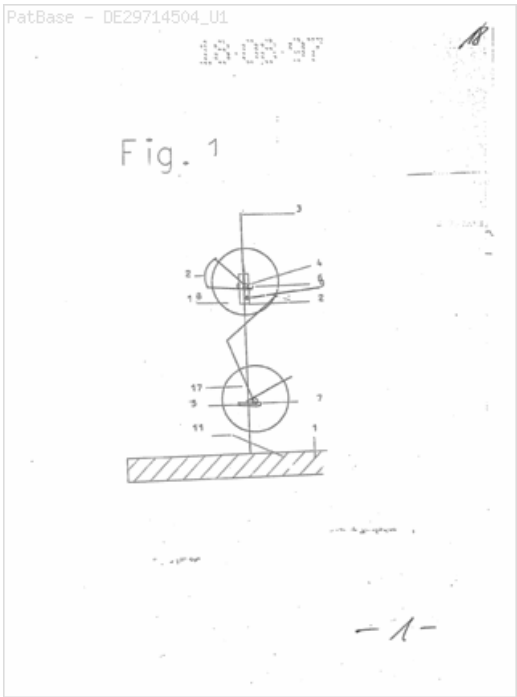
Probable Assignee: FISCHER PITT

Assignee(s):(std): FISCHER PITT
Assignee(s): FISCHER PITT 76530 BADEN BADEN DE
International class (IPC 8-9): B62H3/00
International class (IPC 1-7): E04H6/02
CPC: B62H3/00

[Classification Explorer](#)

Forward Citations: CN102518324 A, CN102518324 B, DE10055988 C2, DE10032594 A1, DE19830249 C2,

Abstract:
Source: DE29714504 U1 **Machine translation:** (Claim 1) requirements for protection 1. Device for the mounting plate of bicycles, is characterized by that you with one lengthwise an essentially vertical guidance, relocatable mounting plate organ [2] it is equipped for for each bringing in wheel and that the vertical guidance consists fue r the VE r ski bleaching mounting plate organ of desert an r several staffs, pipes desert r ropes [3] and those mounting plate organ [2] the front wheel locked and by means of the bar [6] front axle-seizes t, [4] by inserted stoppers [9] the raised bicycle secures and predominantly metal, plastic desert r of a combination of both materials exists.



29) Family number: 60725036 (CH709455 A2)

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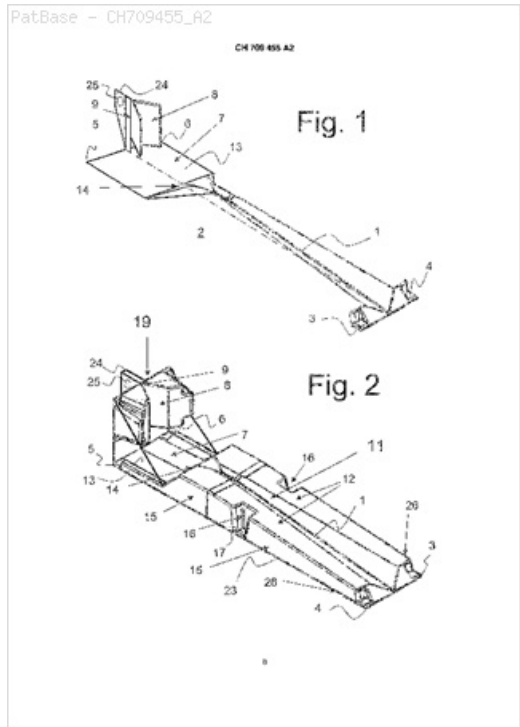
Title: DEVICE FOR PARKING and handling a two-wheeler. (Machine translation)
Priority: CH20140000494 20140401
Family:

Publication number	Publication date	Application number	Application date
CH709455 A2	20151015	CH20140000494	20140401
CH709455 B1	20181130	CH20140000494	20140401

Probable Assignee: GRABER AG
Assignee(s):(std): ANSORIX SYSTEMS AG ; GRABER AG
Inventor(s):(std): JOSEF STADELMANN ; STADELMANN JOSEF
International class (IPC 8-9): B62H3/00
CPC: B62H3/00

[Classification Explorer](#)

Abstract:
Source: CH709455 A2 **Machine translation:** The apparatus comprises a rising on level ground fairway (1) (6 3, 4, 5,) is suppressible to a minimum of three points of support on the ground. In this fairway (1) is a two-wheeled vehicle with the front wheel can be pushed ahead, whereby the waterway (1) in the front region (7) of the device ausformt a depression (13) for receiving the front wheel of the two-wheeler deferred. Before this depression (13) is an acute-angled corner (8) formed whose acute angle against the fairway (1) is opened towards, for centering and holding the in this area (8) to be inserted front wheel of the bicycle. The device is equipped with at least one handle which is gripped by a robot, and the device is raised and lowered, pivotally and slidably in Laengsrichtung to the device back and forth on this handle. In a preferred embodiment, the rising on level ground Fairway (1) is formed by a plastically structured shaped, rectangular in plan floor plate (11) having a rear rising forward portion (12) with at the center of molded as recess Fairway (1) has. This base plate (11) at the front of a Schraegflaeche (14), which falls to the bottom, in which area the fairway (1) continues. The bottom plate (11) into the front of a minimally inclined, running in Bodennaeh planar portion (13).



30) Family number: 7463312 (US3762569 A)

© PatBase

Title: KEY-OPERATED COIN-CONTROLLED BICYCLE RACK

Priority: US19720231495 19720303

Family:	Publication number	Publication date	Application number	Application date
	US3762569 A	19731002	US19720231495	19720303

Probable Assignee: SPRING W

Assignee(s):(std): SPRING W

Assignee(s): SPRING W US

Inventor(s):(std): SPRING W

Inventor(s): SPRING W US

International class B62H3/00 G07F17/10
(IPC 8-9):

International class B62H3/00 E05B73/00
(IPC 1-7):

CPC: B62H3/00 G07F17/10 Y10T70/5876 Y10T70/5881

US class: 211/0.5 211/5 70/234 70/235

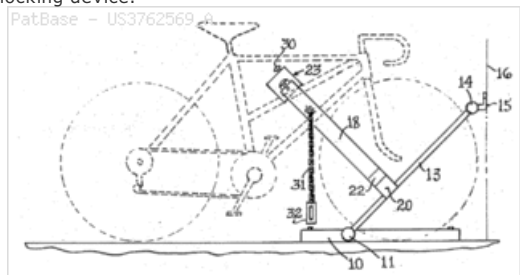
[Classification Explorer](#)

Cited documents: US614826 A, US2118318 A, FR1006071 A,

Forward Citations: US10641014 BB, US9758203 BB, EP0933288 A3, US9499223 BB, US9371101 BA, US2015360739 AA, US2014311996 AA, US2004093918 AA, US6062396 A, US5040385 A, EP0933288 A2, US7694830 BA, WO9730884 A1, US6375135 BA, FR2745258 A1, US6223907 BA, GB2150898 A1, US3964611 A, US3934436 A, US4807453 A, DE9309516 U1, US5917407 A, US5323915 A, US3920126 A, US3865244 A, EP0880449 B1,

Abstract:

An apparatus for securing a bicycle in a rack provided with a coin-controlled key-operated locking device associated with a permanent rack structure adapted to embrace a substantial portion of the bicycle frame, and a binding member adapted to secure other parts of the bicycle to the rack through the operation of the locking device.



31) Family number: 9466598 (EP0576097 A1)

© PatBase

Title: BICYCLE PROVIDED WITH A STAND

Priority: NL19920001135 19920625

Family:	Publication number	Publication date	Application number	Application date
	DE69306179 D1	19970109	DE19936006179T	19930623
	DE69306179 T2	19970320	DE19936006179T	19930623
	DK0576097 T3	19970224	DK19930201818T	19930623
	EP0576097 A1	19931229	EP19930201818	19930623
	EP0576097 B1	19961127	EP19930201818	19930623

Probable Assignee: LASSCHE JAKOB

Assignee(s):(std): LASSCHE JAKOB

Assignee(s): LASSCHE JAKOB ALMELO NL

Inventor(s):(std): LASSCHE JAKOB

Inventor(s): LASSCHE JAKOB ALMELO NL

Designated states: BE DE DK GB NL

International class B62H1/00 B62H1/04 B62H5/00
(IPC 8-9):

International class B62H1/04 B62H5/00
(IPC 1-7):

CPC: B62H1/04 B62H5/00

[Classification Explorer](#)

Cited documents: US4055060 A, US2251639 A, GB3542, GB191203542 A, EP0337552 A1,

Forward Citations: DE19840839 C2,

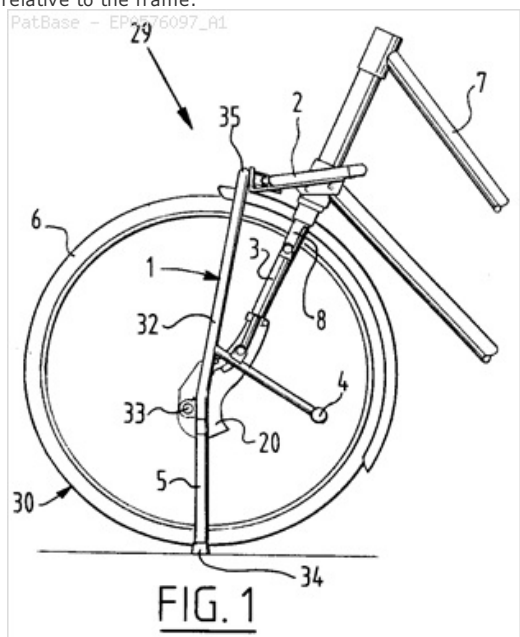
DE102011010909 A1

Abstract:

A two-wheeled vehicle (29) such as a bicycle, moped or motor cycle, comprising a frame (7) with a saddle on which a user can take up position, a rear wheel rotatably drivable relative to that frame, a fork column which is pivotable for steering under control of a user and which bears on its top end a handlebar and which bears on its bottom end, for instance by means of a fork (8), a freely rotatable front wheel (30),

is characterized by a generally U-shaped stand (1) fixed in the region of the front wheel to the fork column, situated with its two legs (5) on either side of the front wheel (30) and pivotable in a vertical plane round a pivot axis (33) extending in the region of the lower end of the fork column, which stand (1) can be placed at choice by the user into one of two stable positions, in the first of which the active outer ends (34) of the two legs (5) protrude below the lowest part of the front wheel (30) to support on the ground and in the second of which the two legs (5) are pivoted out of the said first position; and

a lock (2) which is fixedly connected or connectable to the frame and which in the first position can lock the upper part (35) of the stand relative to that frame while simultaneously locking the fork column relative to the frame.



32) Family number: 49584757 (US2011226709 AA)

© PatBase

Title: COMBINATION OF FIXTURE MEMBER FOR BICYCLE AND LOCKING APPARATUS FOR BICYCLE PARKING RACK

Priority: US20100724488 20100316

Family:	Publication number	Publication date	Application number	Application date
	US2011226709 AA	20110922	US20100724488	20100316

Probable Assignee: ELITE DESIGN CO

Assignee(s):(std): CHEN JAN NAN ; YEN TAMMY

Assignee(s): ELITE DESIGN CO

Inventor(s):(std): CHEN JAN NAN ; YEN TAMMY

International class B62H5/00 B62K21/02 E05B71/00
(IPC 8-9):

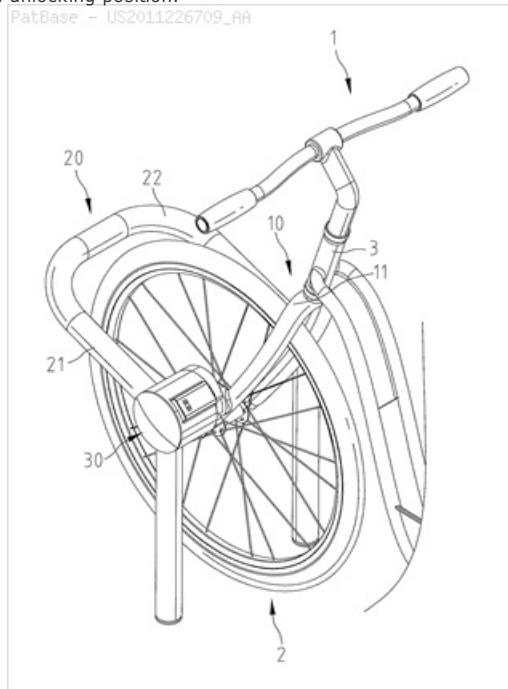
CPC: B62H2003/005 B62H3/04 B62H5/00 Y10T70/5872

US class: 211/17 211/17P 280/276 280/276S 70/233 70/233S

Forward Citations: US2019047647 AA, US10641007 BB, US10549801 BB, FR2987811 B1, CN105332569 B, EP2639143 B1, WO19042079 A1, TWI643780 B, CN103303396 A, CN105332569 A, US9169673 BB, CN103754293 B, CN103754293 A, CN103303397 A, US2015117935 AA, EP2639143 A1, FR2987811 A1,

Abstract:

A combination of a front fork of a bicycle and a parking rack, wherein the front fork includes two shafts, each shaft having first and second ends and the parking rack includes a space receiving the front fork for parking the bicycle, the combination comprises a fixture member provided between the first and second ends of one of the shafts and facing opposite to another shaft; and a locking apparatus, which is installed to the parking rack and corresponding to the fixture member, selectively locking the fixture member to the parking rack between a locking position and an unlocking position.

**33) Family number: 17730658** (DE29609383 U1)

© PatBase

Title: Bicycle stand

Priority: DE19962009383U 19960525

Family:

Publication number	Publication date	Application number	Application date
DE29609383 U1	19961010	DE19962009383U	19960525

Probable Assignee: METALLBAU BRUNO VAETH GMBH

Assignee(s):(std): METALLBAU BRUNO VAETH GMBH

Assignee(s): METALLBAU BRUNO VAETH GMBH 90441 NUERNBERG DE

International class B62H3/00

(IPC 8-9):

International class B62H3/00

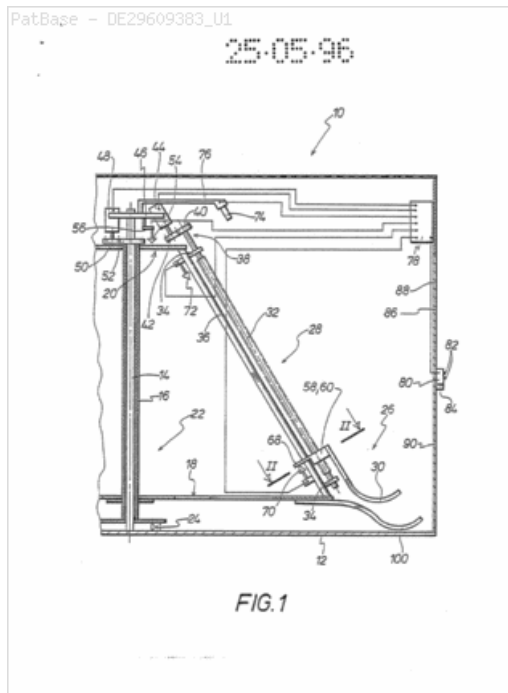
(IPC 1-7):

CPC: B62H3/00

[Classification Explorer](#)

Abstract:

Source: DE29609383 U1 **Machine translation:** (Claim 1) 1 Bicycle stand with a perpendicular to an axis of rotation (14) rotatable base unit (22), a lower part (18) and an upper part (20), beabstandetLagereinrichtungen between which circumferentially from each other (26) for each of a bicycle are provided, wherein each storage facility (26) A lifting device (28) with a runner element (30), the means of a first driving device (44) verstellbarist in height, the base device (22) using a second drive means (48) according deru mfa ngsverteilung of storage facilities (26) verdrehbarist, and that the first and second drive means (48, 44) with a control device (78) are connected together. Second Bicycle stand according to claim 1, wherein each lifting device (28) one screw (32), which is by a parent element (58) screwed, that is, with the associated skid element (30).



34) Family number: 17688742 (DE9318964 U1)

© PatBase

Title: Lockable bicycle PARKING SYSTEM (Machine translation)

Priority: DE19930018964U 19931210

Family:	Publication number	Publication date	Application number	Application date
	DE9318964 U1	19940526	DE19930018964U	19931210

Probable Assignee: KOMM BAU KOLLEKTIVBETRIEB IN D

Assignee(s):(std): KOMM BAU KOLLEKTIVBETRIEB IN D

Assignee(s): KOMM BAU KOLLEKTIVBETRIEB IN DER KOMMUNE NIEDERKAUFUNG ; KOMM BAU KOLLEKTIVBETRIEB IN DER KOMMUNE NIEDERKAUFUNGEN GMBH 34260 KAUFUNGEN DE

International class (IPC 8-9): B62H3/00 B62H3/10 G07F17/10

International class (IPC 1-7): B62H3/00 B62H5/00 E04H6/00 G07F17/10

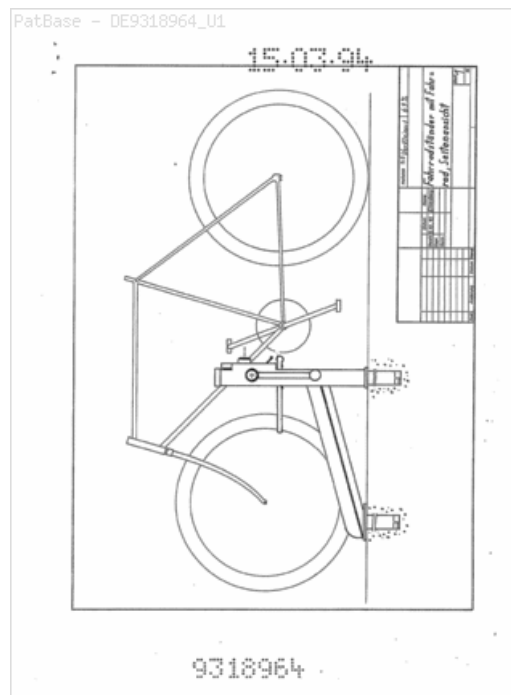
CPC: B62H3/00 B62H3/10 G07F17/10

[Classification Explorer](#)

Forward Citations: EP1221405 A3, DE4445468 A1, DE19620211 C1, FR2749425 A1, EP1221405 A2,

Abstract:

Source: DE9318964 U1 **Machine translation:** (Claim 1) Come-building operation in the collective municipality Niederkaufungen GmbH Wilhelmstr. 7.34260 Kaufungen, Tel: 05605/3015 Inventor: George Eisenberg, Kirchweg 1, 34260 Kaufungen exigencies Lockable bicycle parking area to claim 1 characterized in that the frame of the bicycle with screw actuated clamps (No.



35) Family number: 65330307 (US9610993 BA)

© PatBase

Title: BICYCLE STAND
Priority: US20160158693 20160519
Family:

Publication number	Publication date	Application number	Application date
US9610993 BA	20170404	US20160158693	20160519

Probable Assignee: YE CHOU IND CO LTD
Assignee(s):(std): YE CHOU IND CO LTD
Assignee(s): YE CHOU IND CO
Inventor(s):(std): HO JERN SHORG
Agent(s): ALAN D; KAMRATH IP LAW FIRM PA
International class A47F7/00 B62H3/00 B62H3/08
(IPC 8-9):
CPC: B62H3/00 B62H3/06 B62H3/08
US class: 1/1

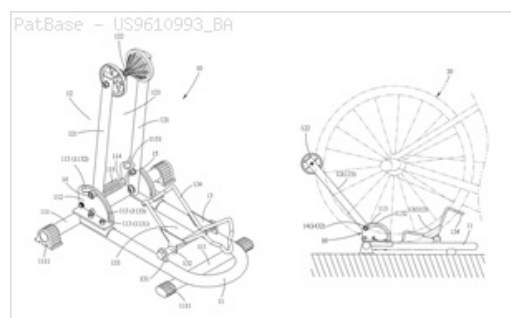
[Classification Explorer](#)

Cited documents: US6173976 BA, US2015175184 AA, US2013270201 AA, US2012241392 AA, US2012018969 AA, US2011220594 AA, US2010122958 AA, US2007164065 AA, US2006186161 AA, US2006144804 AA, US2003071097 AA, US2002145264 AA, US2002060436 AA, US9358933 BB, US9254791 BB, US9199511 BB, US9145180 BB, US9022265 BB, US8851301 BA, US8496148 BB, US8360252 BA, US8166695 BB, US8104588 BB, US7958973 BB, US7815083 BB, USD605092 S1, US7150359 BA, US6755309 BA, US6644672 BB, US6640979 BA, US6588603 BA, US6575310 BB, US6488157 BB, US6332621 BA, US6296162 BA, US6241104 BA, US6173976 B1, US6129371 A, US6062396 A, US5988403 A, US5988402 A, US5775560 A, US5692659 A, USD372691 S1, US5498015 A, US5462398 A, US5301817 A, US4852779 A, US4802594 A, US4629104 A, US3785517 A, US3542157 A, US3430983 A, US3116836 A, US1576048 A, US1202444 A, US803196 A, US612663 A, US611856 A, US595891 A, US589643 A, US576351 A, US556806 A, US556758 A, US529939 A, US516571 A, US511367 A,

Forward Citations: US10787130 BB, US10618582 BA, US10525897 BB, US10160398 BB, USD825396 S1, USD820168 S1, US2018099620 AA,

Abstract:

A bicycle stand includes a base, a front positioning rack and a rear positioning rack. The front positioning rack includes two uprights pivotally mounted on the base, a tensile spring biased on one of the two uprights, and an abutting member pivotally mounted between the two uprights to define a first placement zone between the abutting member and the two uprights. The rear positioning rack defines a second placement zone. Thus, the first placement zone, the second placement zone and the abutting member form a three-point support to hold a bicycle wheel. In addition, the angle between the first placement zone and the second placement zone can be adjusted in a determined range, so that the front positioning rack and the rear positioning rack are used to support bicycle wheels of different sizes.



36) Family number: 24929542 (CH223458 A)

© PatBase

Title: DEVICE FOR SECURING OF DRIVING also bicycles THEFT. (Machine translation)

Family:

Publication number	Publication date	Application number	Application date
CH223458 A	19420915		19420110

Probable Assignee: SCHOUWEY PIERRE

Assignee(s):(std): SCHOUWEY PIERRE

Inventor(s):(std): PIERRE SCHOUWEY

Inventor(s): SCHOUWEY PIERRE

International class (IPC 8-9): B62H3/00 G07F17/10

International class (IPC 1-7): B62H3/04

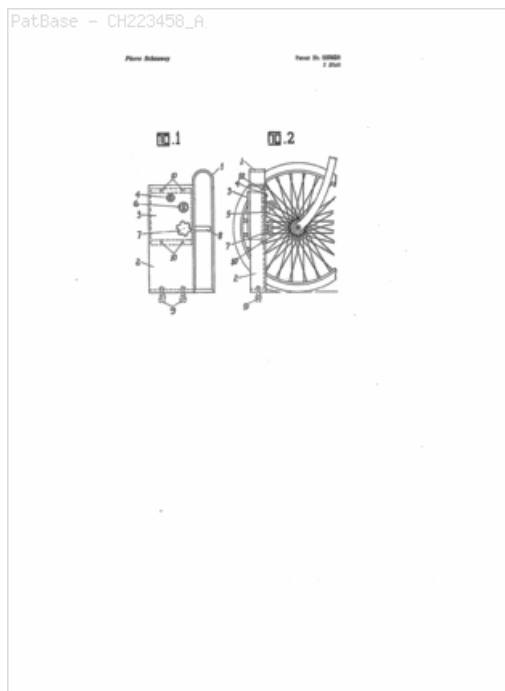
CPC: B62H3/00 G07F17/10

[Classification Explorer](#)

Forward Citations: EP0111352 A3, DE4014158 A1, EP0111352 A2, US4830167 A, US3783659 A, DE4014158 C2,

Abstract:

Source: CH223458 A **Machine translation:** . 1 A device according to claim because a has characterized in that the locking vorrichtung next to a vending machine with a rotary knob to betaetigenden bolt, wherein the machine after taking an Geldstueckes release the knob with the lock for Actuation and that by turning a removable key of the bolt is locked in the closed position.

**37) Family number: 9601314 (CH683248 A)**

© PatBase

Title: Bicycle stand protecting against theft - holds front wheel between concrete slabs with jib locking over rear wheel and bar of frame

Priority: CH19920000982 19920330

Family:

Publication number	Publication date	Application number	Application date
CH683248 A	19940215	CH19920000982	19920330

Probable Assignee: ERIC MISSELWITZ HANSJOERG MUEL

Assignee(s):(std): ERIC MISSELWITZ HANSJOERG MUEL

Assignee(s): ERIC MISSELWITZ ; HANSJOERG MUELLER

Inventor(s):(std): MISSELWITZ ERIC ; MUELLER HANSJOERG

International class (IPC 8-9): B62H3/00 B62H3/04 B62H5/00 G07F17/10

International class (IPC 1-7): B62H3/04 G07F17/10

CPC: B62H3/04 B62H5/00 G07F17/10

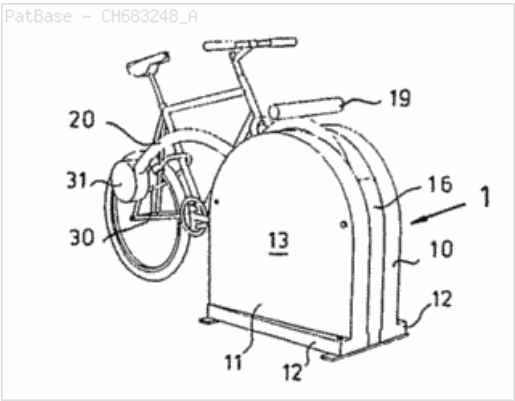
[Classification Explorer](#)

Forward Citations: EP2364900 A3, ES2128906 AA, EP1655213 A2, EP0818384 A1,

Abstract:

The massive front wheel holders (1) can be placed in a row to any desired length to provide a bicycle parking stand. The concrete

slabs cover an inserted bicycle front wheel at least to above the hub. Each slab has a jib (20) that extends at to the edge region of the rear wheel and is provided with a lockable shackle (30). The latter can enclose the rear wheel and a bar of the bicycle frame. The outer end of the jib can be provided with a locking housing (31) using a cylinder lock. The latter can be joined to a coin-operated mechanism. ADVANTAGE - Full protection including front and rear wheels. Can be easily integrated in or on walls of building.



38) Family number: 17000158 (DE29912817 U1)

© PatBase

Title: Device FOR LIMITING AND LOCKING OF DRIVE ENERGY (Machine translation)
Priority: DE19992006402U 19990410 DE19992012817U 19990722
Family:

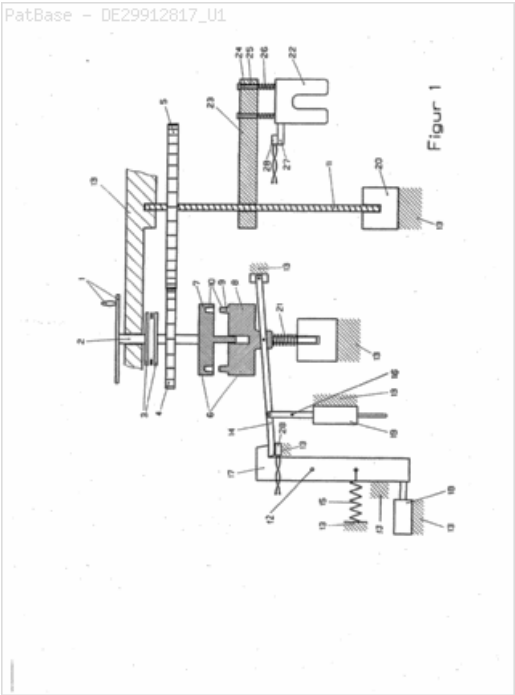
Publication number	Publication date	Application number	Application date
DE29912817 U1	19991202	DE19992012817U	19990722

Probable Assignee: CUBIT ELECTRONICS GMBH
Assignee(s):(std): CUBIT ELECTRONICS GMBH
International class (IPC 8-9): B62H3/00
International class (IPC 1-7): B62H3/00 B62H5/00 B65G1/04 E05B71/00 G05G1/08 G05G5/12
CPC: B62H3/00

[Classification Explorer](#)

Forward Citations: CN101693276 A, CN101693276 B,

Abstract:
Source: DE29912817 U1 **Machine translation:** (Claim 1) 1 Device to operate a powered by a hand crank one mechanism, particularly for operating a parking devices for bicycles, but the mechanism is provided with one by a threaded rod 11 adjustable locking element, characterized in that disposed between the hand crank 1 and the drive gear 4, a clutch 3 and that the drive gear 4 with an electromechanically driven locking clutch 6 is connected.



39) Family number: 17651062 (DE9214083 U1)

© PatBase

Priority: DE19920014083U 19921019

Family:

Publication number	Publication date	Application number	Application date
DE9214083 U1	19930311	DE19920014083U	19921019

Probable Assignee:

BITTLINSKY BERNHARD 4100 DUISBURG DE

Assignee(s):

BITTLINSKY BERNHARD 4100 DUISBURG DE

International class
(IPC 8-9):

B62H3/00 E04H6/00

International class
(IPC 1-7):

B62H3/00 B62H5/00 B65D85/68 E04H6/02

CPC:

B62H3/00 B62H3/08 E04H6/005

[Classification Explorer](#)**Forward Citations:**

CN1071260 C, EP0865393 A4,

DE102016211416 A1

ES2627610 AA,

DE102013015674 B4

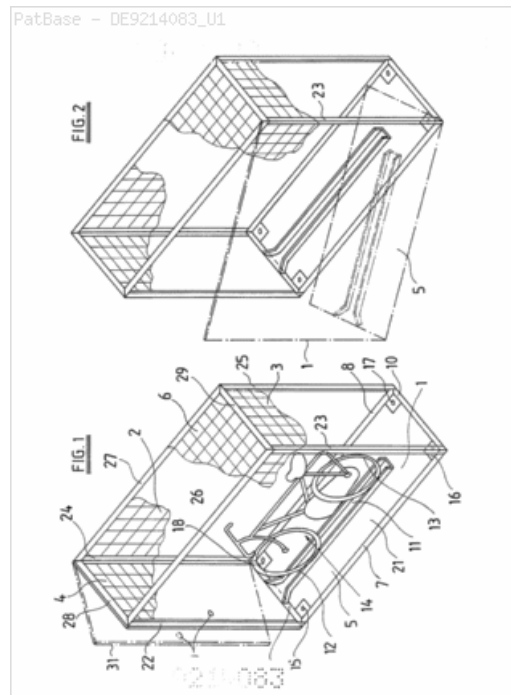
DE202013012228 U1

DE102013015674 A1

EP0865393 A1, US6068120 A, FR2788948 A1, DE10032594 A1, ES2180430 AA, WO02095168 A1, DE29513590 U1, DE29508213 U1, DE9421020 U1, DE9309035 U1, DE9310558 U1, DE4333228 A1, EP0964117 A2,

Abstract:

Source: DE9214083 U1 **Machine translation:** (Claim 1) 1 Box for theft-proof parking a two-wheel (14), for example, a bicycle, a motor scooters, a motorcycle, a scooter and the like, with side walls (1, 2, 3, 4), of which one side wall (4) for inserting and removing the Two wheel (14) to open and close is a bottom frame (5), which attach to a foundation, for example on the Un-background or a ceiling floor, in particular, tighten, and an open-topped rail (11) in the bottom frame (5) for receiving the wheels (12,13) and the two-wheeler with a roof (6).

**40) Family number: 11242957 (DE4310590 A1)**

© PatBase

Title:

Locking device for locking at least part of a bicycle

Priority:

DE19934310590 19930331

Family:

Publication number	Publication date	Application number	Application date
DE4310590 A1	19941006	DE19934310590	19930331

Probable Assignee:

IMMLER JOSEF DIPL ING FH

Assignee(s):(std):

IMMLER JOSEF DIPL ING FH

Assignee(s):

IMMLER JOSEF DIPL ING FH 82178 PUCHHEIM DE

Inventor(s):(std):

IMMLER JOSEF DIPL ING

Inventor(s):

IMMLER JOSEF DIPL ING FH 82178 PUCHHEIM DE

International class
(IPC 8-9):

B62H5/00 B62H5/14

International class
(IPC 1-7):

B62H5/00 B62H5/16 E05B71/00

CPC:

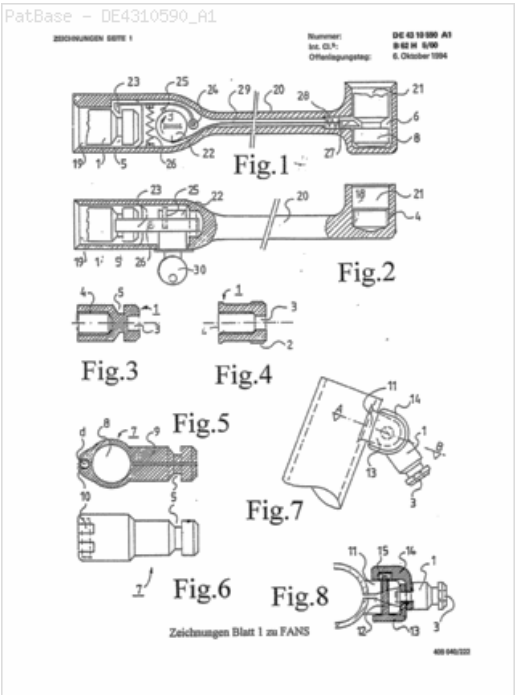
B62H5/00 B62H5/005 B62H5/14

[Classification Explorer](#)

Cited documents: US5007260 A, US4028916 A, US3910081 A, GB2256837 A1, FR2606356 A1, DE9012512 U1, DE8815391 U1, DE8814794 U1, DE8812678 U1, DE876220 A, DE4019199 A1, DE3633041 C2, DE3538244 C2, DE2821205 A1, CH231005 A,

Forward Citations: EP3470607 B1, US10563432 BB, EP3470607 A1, EP2843165 B1, US10066423 BB, EP2843165 A3, WO04083025 A3, JP5729246 B2, JP2013078992 A2, DE19752349 A1, WO04083025 A2, FR2852288 A1, FR2741586 A1, EP0919457 A1,

Abstract:
Locking device for locking at least part (40) of a bicycle which has bicycle parts (40) attached releasably to the bicycle frame (47) with the aid of attachment parts (44). In order to offer the greatest possible resistance to the theft of the entire bicycle, or of important parts of the bicycle, at least one of the attachment parts (44) is provided with a bolt which can be protected against being loosened by means of a sleeve (60) which can be mounted thereon, and which bolt can be connected mechanically via a locking connection (54) to at least one further securing point. The locking connection (54) is preferably designed as a bicycle stand (50).



41) Family number: 3443600 (US4925204 A) © PatBase

Title: Bicycle fork protector and wheel reflector apparatus
Priority: US19890302811 19890127

Family:	Publication number	Publication date	Application number	Application date
	US4925204 A	19900515	US19890302811	19890127

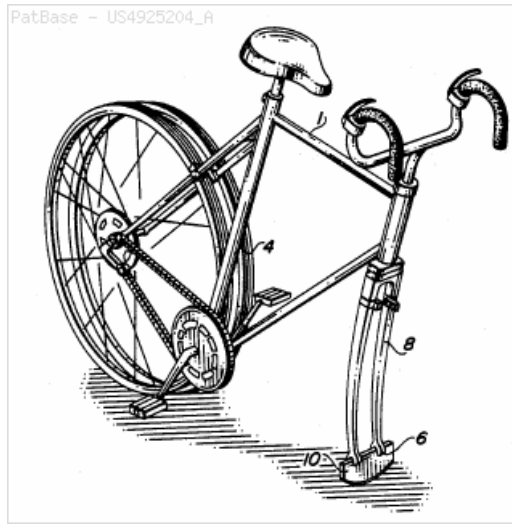
Probable Assignee: LUGO GEORGE J
Assignee(s):(std): LUGO GEORGE J
Inventor(s):(std): LUGO GEORGE J
International class (IPC 8-9): B62H3/00 B62J23/00
International class (IPC 1-7): B62H3/00 B62J23/00
CPC: B62H3/00 B62J23/00
US class: 280/293 280/295 280/304.3 350/99 359/523 359/550

[Classification Explorer](#)

Cited documents: US4563016 A, US4201448 A, US3979113 A, IT363157 A, GB189713573 A, FR610103 A, FR360993 A, GB13573,

Forward Citations: US9321474 BB, WO15181554 A1, US2013249681 AA,

Abstract:
It is common for bicycle riders to remove the bicycle front wheel and secure it with a lock and chain to the bicycle back wheel and frame when parking a bicycle. In such a case, the front fork of the bicycle then engages the ground. This often causes damage to the front fork or to the drop out slots in the front fork. To this end, a bicycle fork protector has been devised, the fork protector secured in the drop out slots of the blades of the front fork, the fork protector adapted to be interposed between the front fork and the ground. The fork protector consists of a generally elongated flat plate made of durable material with two pairs of opposite sides, one elongated side being a rounded side, the rounded side having a dense shock absorbing material strip adhesively attached thereto adapted to engage the ground. The opposite straight side is wedged into and frictionally held by the drop out slots of the bicycle front fork. In alternate embodiments, structure is provided to secure the fork protector to the bicycle front fork and to selectively place reflective material on the protector and be held to a spoke in order that the protector may double as a safety reflector for a bicycle wheel.

**42) Family number: 17708035** (DE9418123 U1)

© PatBase

Title: Shut-off device for bicycles or the DGL. (Machine translation)**Priority:** DE19940018123U 19941116

Publication number	Publication date	Application number	Application date
DE9418123 U1	19950223	DE19940018123U	19941116

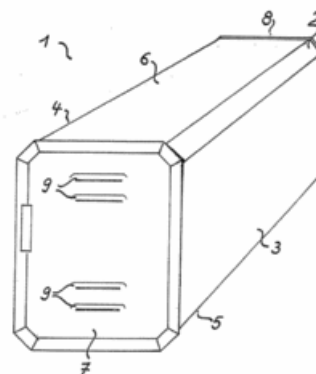
Probable Assignee: TROESTER KURT**Assignee(s):(std):** TROESTER KURT**Assignee(s):** TROESTER KURT 56154 BOPPARD DE**International class**
(IPC 8-9): B62H3/00 E04H6/00**International class**
(IPC 1-7): B62H3/00 E04H6/02**CPC:** B62H3/00 E04H6/005[Classification Explorer](#)**Forward Citations:** IT201800007197 A1

EP3593672 A1, WO9915745 A1, DE29811515 U1, DE29507829 U1, DE9421020 U1,

Abstract:

Source: DE9418123 U1 **Machine translation:** (Claim 1) 1 Shut-off (1) for bicycles or the like (33), a) with a cuboid, to be used in horizontal orientation of its Laengsausdehnung and to be stored in Bodennaeh, a storage building enclosures (2) with parallel Laengsausdehnung of the housing (2) extending, sidewalls lying in vertical planes (3.4) and lying in horizontal planes or ground. Top wall (5 and 6), and b) a means of Abschlusstuer (7) locking opening for the store room, marked by c) a diagonal to the side walls 3.4 () running in the housing (2) arranged partition (10) to separate the storage area and making two each for the parking of one bicycle or the like (33), facing in opposite directions handlebars of both bikes or the like (33) provided, in the direction of the one or the other end of the chassis (2) in section 13.14 to increase the parking area (), and d), each one using a Abschlusstuer (7 and 8) locking opening for each parking area (13 or 14) of the storage room.

18.11.94

Fig. 1

9418123

43) Family number: 11017941 (DE4235158 A1)

© PatBase

Title: Box for anti-theft protection of bicycle - has sidewalls, one of which is openable and closable for insertion and removal of bicycle, and floor frame fixable to ground by screws, etc.

Priority: DE19924235158 19921019

Family:	Publication number	Publication date	Application number	Application date
	DE4235158 A1	19940421	DE19924235158	19921019
	DE4235158 C2	19940804	DE19924235158	19921019

Probable Assignee: BITTLINSKY BERNHARD

Assignee(s):(std): BITTLINSKY BERNHARD

Assignee(s): BITTLINSKY BERNHARD 47199 DUISBURG DE

Inventor(s):(std): BITTLINSKY BERNHARD

Inventor(s): BITTLINSKY BERNHARD 47199 DUISBURG DE

International class (IPC 8-9): B62H3/00 B65D85/68 E04H6/00

International class (IPC 1-7): B62H3/00 B62H3/08 B62H5/00 B65D85/68 E04H6/02

CPC: B62H3/00 B65D2585/6862 B65D85/68 E04H6/005

[Classification Explorer](#)

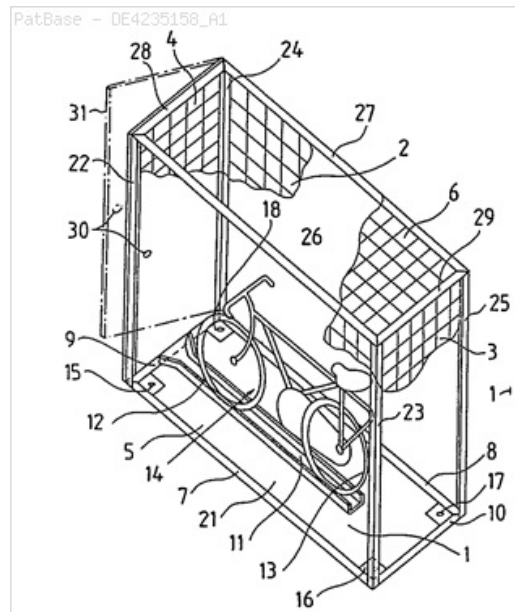
Cited documents: US4438606 A, DE8908931 U1, DE8622093 U1, DE3732522 A1,

Forward Citations: NO344254 B1, EP1051306 A4, WO14202926 A3, GB2456309 B2, GB2456309 A1, ES2208037 AA, DE102013013901 A1

FR2761656 A1, EP1051306 A1, DE19746296 A1, EP1693287 A2, FR2762343 A1, US7021474 BB, GB2352252 A1, US6382711 BB, DE9319663 U1, DE4425435 A1,

Abstract:

In a face wall (4) of the box a pivot door is provided. The floor (5) of the box is formed as a pivot floor and the attached side wall (1) as a pivot wall, both of which are pivotable around a common side edge (23). The floor frame (5) with the sidewall are formed like a drawer, and the floor is displaceable on two telescopic push bars. One of the sidewalls is formed as a roller blind and the side walls, the cover and possibly also the floor or formed from steel plate, as a grid mat, of plastic, partic. PVC, plexiglass or similar. USE/ADVANTAGE - A theft-proof box for bicycles. The arrangement prevents removal of components or the complete bicycle.

**44) Family number: 73728498** (WO19063698 A1)

© PatBase

Title: STORAGE DEVICE

Priority: DE201710122542 20170928 WO2018EP76274 20180927

Family:	Publication number	Publication date	Application number	Application date
	DE102017122542 A1	20190328	DE201710122542	20170928
	EP3687886 A1	20200805	EP20180785274	20180927
	WO19063698 A1	20190404	WO2018EP76274	20180927

Probable Assignee: BELU VERWALTUNGS GMBH

Assignee(s):(std): BELU VERWALTUNGS GMBH ; SCHUERMANN HARALD

Inventor(s):(std): SCHUERMANN HARALD

Agent(s): GROSSE SCHUMACHER KNAUER VON HIRSCHHAUSEN; RAUSCH WANISCHECK BERGMANN BRINKMANN PARTNERSCHAFT MBB PATENTANWAELTE

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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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):

B62H3/00 B62H3/12 E04H6/00 E04H6/06

CPC:

B62H2003/005 B62H3/00 B62H3/12 E04H6/005

[Classification Explorer](#)

Cited documents:

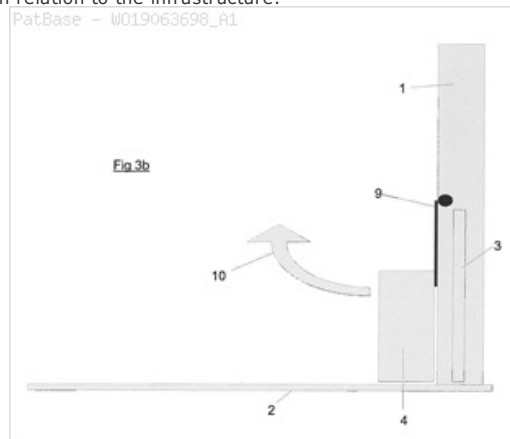
WO9514143 A2, WO17091065 A1, WO17023168 A1, WO14017919 A1, JP62027157 U1, EP3085856 A1, DE4420174 A1, DE2820145 A1,

DE102010009123 A1

CN106049921 A,

Abstract:

In order to create a storage device that allows a bicycle, even a heavy bicycle, to be stowed easily and securely without affecting the usability of the bicycle as a result of its accessibility, the invention relates to a storage device comprising a housing that is attached to a stationary infrastructure element but is arranged movably in relation to the infrastructure.



45) Family number: 11148264 (US5292009 A)

© PatBase

Title:

Bicycle rack

Priority:

US19920996701 19921224 GB19920027144 19921231 DE19934301171 19930119

Family:

Publication number	Publication date	Application number	Application date
DE4301171 A1	19940721	DE19934301171	19930119
GB2273915 A1	19940706	GB19920027144	19921231
GB2273915 B2	19960410	GB19920027144	19921231
GB9227144 A0	19930224	GB19920027144	19921231
US5292009 A	19940308	US19920996701	19921224

Probable Assignee:

SMITH TERRANCE R

Assignee(s):(std):

SMITH TERRANCE R ; SMITH TERRANCE RAYMOND

Assignee(s):

SMITH TERRANCE RAYMOND NEPEAN ONTARIO ; TERRANCE RAYMOND SMITH

Inventor(s):(std):

SMITH TERRANCE R ; SMITH TERRANCE RAYMOND

Inventor(s):

SMITH TERRANCE RAYMOND NEPEAN ONTARIO ; TERRANCE RAYMOND SMITH

International class

B62H3/00 B62H3/08 B62H3/12

(IPC 8-9):

International class

A47F7/00 B60R9/10 B62H3/00 B62H3/08 B62H5/16

(IPC 1-7):

CPC:

B62H3/00 B62H3/08 B62H3/12

US class:

211/19 211/20

[Classification Explorer](#)

Cited documents:

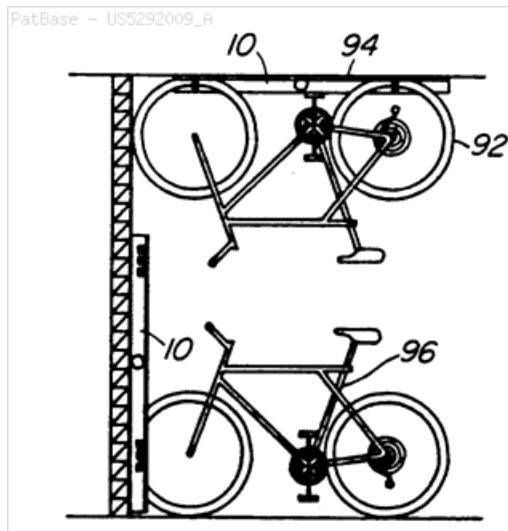
US4442961 A, US4416379 A, US4345705 A, GB815269 A,

Forward Citations:

US10059396 BB, JP2000326882 A2, JP3098512 B1, US9629455 BB, USD781063 S1, WO15161008 A1, US2007221589 AA, US2007034760 AA, US2006151769 AA, US2015151802 AA, US8468745 BB, US6484888 BB, USD661623 S1, USD660749 S1, US5794793 A, US7784622 BB, WO0228699 A1, US7494110 BB, US6446816 BA, US5984111 A, US5664687 A, US5560526 A, USD499672 S1, GB2562904 A1, GB2317599 A1, GB2306421 A1, GB2317599 B2,

Abstract:

A bicycle rack consisting of a channel member having a wall on one side and a stepped base, and retaining and locking means to hold a bicycle is provided. The rack permits easy entry and removal of a bicycle from a horizontal, vertical or overhead position. Means are also provided to permit locking of a bicycle to the rack. Accessories are provided to support a bicycle while being repaired, and to protect a rear bicycle fender when a bicycle is parked vertically.

**46) Family number: 54578302** (WO14202926 A2)

© PatBase

Title: BICYCLE STORAGE UNIT
Priority: GB20130010811 20130618
Family:

Publication number	Publication date	Application number	Application date
GB201310811 A0	20130731	GB20130010811	20130618
GB201409934 A0	20140716	GB20140009934	20140602
GB2517045 A1	20150211	GB20140009934	20140602
GB2517045 B2	20150916	GB20140009934	20140602
WO14202926 A2	20141224	WO2014GB00210	20140604
WO14202926 A3	20151203	WO2014GB00210	20140604
WO14202926 A4	20160121	WO2014GB00210	20140604

Probable Assignee: BUTTERFIELD PAULA
Assignee(s):(std): BUTTERFIELD PAULA
Assignee(s): PAULA BUTTERFIELD
Inventor(s):(std): BUTTERFIELD PAULA
Inventor(s): PAULA BUTTERFIELD
Agent(s): BROOKE JONES LTD
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 B62H3/00 B62H3/06 B62H3/08 B62H5/00
(IPC 8-9):

CPC: B62H3/08 B62H3/12 B62H5/00 E04H6/005

[Classification Explorer](#)

Cited documents: US5984111 A, DE4235158 A1, NL1013357 C1, FR2758518 A1, US6223907 BA, EP1479598 A2, DE29708639 U1,
 DE202010013991 U1
 DE202006009650 U1

DE29700691 U1, NL9301879 A, DE29906501 U1, NL9400633 A, WO06018666 A1, WO09121128 A1, GB2312882 A1,

Forward Citations: EP3578448 A1, JP6595426 B2, JP2018043563 A2,

Abstract:

A self-supporting bicycle storage unit comprising: at least one base portion comprising at least one abutment for a wheel of a bicycle; and an upright portion comprising at least one receiving means adapted to receive a portion of a wheel of a bicycle, the receiving means of the upright portion being set at a distance from the abutment(s), wherein the storage unit comprises at least one anchor point for a locking arm. In another embodiment, the upright portion comprises a series of discrete dividers providing the receiving means therebetween.

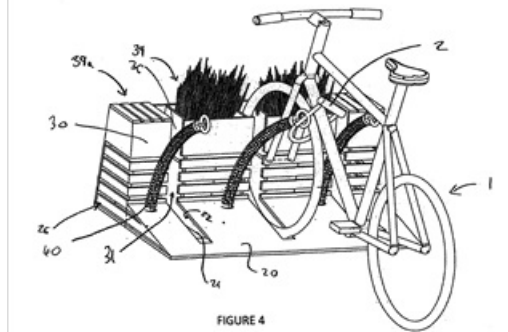


FIGURE 4

47) Family number: 63371004 (WO16135685 A1)

© PatBase

Title: A STALL FOR A VEHICLE WITH TWO WHEELS AND PEDALS**Priority:** IT2015VI00061 20150227 WO2016IB51059 20160226

Family:	Publication number	Publication date	Application number	Application date
	EP3206941 A1	20170823	EP20160716686	20160226
	WO16135685 A1	20160901	WO2016IB51059	20160226

Probable Assignee: TOMMASIN DAVIDE**Assignee(s):(std):** TOMMASIN DAVIDE**Inventor(s):(std):** TOMMASIN DAVIDE**Agent(s):** MAROSCIA ANTONIO

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 B62H3/08 B62H5/00

(IPC 8-9):

CPC: B62H3/08 B62H5/00[Classification Explorer](#)**Cited documents:** JP10157678, EP0806339 A1, EP0634317 A1, EP0147384 A2,**Abstract:**

A stall for quick immobilization of a vehicle (V) with two wheels (W) and pedals (P), which comprises a rigid frame (2) defining a longitudinal axis (L) and adapted to be secured to the ground (G) or a wall and having a hollow rail (19) substantially parallel to the axis (L) for receiving the wheels (W) of the vehicle (V), immobilization means (30) for immobilizing the vehicle (V) relative to the frame (2). The latter comprises a pair of locking elements (13) which are placed above and on opposite sides with respect to the rail (19) to interfere with the pedals (P) of the vehicle (V) when the latter is received in the rail (19), such rail (19) is designed to be selectively moved from a lowered position in which said locking elements (13) do not interfere with the pedals (P), thereby allowing introduction and removal of the vehicle (V), to a raised position in which the locking elements (13) contact the pedals (P) thereby immobilizing the vehicle (V) relative to the frame (2), and vice versa.

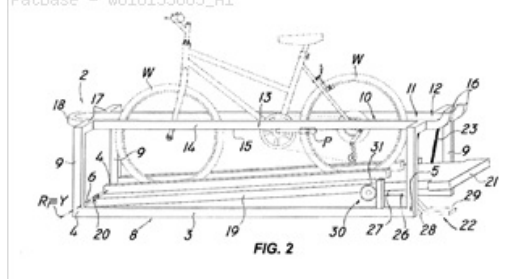


FIG. 2

48) Family number: 12600681 (DE19737466 A1)

© PatBase

Title: Stationary bicycle lock**Priority:** DE19971037466 19970828

Family:	Publication number	Publication date	Application number	Application date
	DE19737466 A1	19990311	DE19971037466	19970828
	DE19737466 C2	20010523	DE19971037466	19970828

Probable Assignee: MATTHIESEN ANDREAS**Assignee(s):(std):** MATTHIESEN ANDREAS**Assignee(s):** MATTHIESEN ANDREAS 25850 BEHRENDORF DE**Inventor(s):(std):** MATTHIESEN ANDREAS**Inventor(s):** MATTHIESEN ANDREAS 25850 BEHRENDORF DE**International class** B62H3/00 B62H3/04 G07F17/10

50) Family number: 15249213 (FR2789646 A1)

© PatBase

Title: Anti-theft anchor for bicycle has U-shaped frame on base plate actuating rotor to pivot locking bolts to retain wheels

Priority: FR19990001976 19990217

Family:	Publication number	Publication date	Application number	Application date
	FR2789646 A1	20000818	FR19990001976	19990217
	FR2789646 B1	20010406	FR19990001976	19990217

Probable Assignee: RUMONT GERARD

Assignee(s):(std): RUMONT GERARD

Assignee(s): GERARD RUMONT

Inventor(s):(std): RUMONT GERARD

Inventor(s): GERARD RUMONT

Agent(s): CABINET MOUTARD

International class B62H3/00

(IPC 8-9):

International class B62H3/00 B62H5/14

(IPC 1-7):

CPC: B62H3/00

[Classification Explorer](#)

Cited documents: US4126228 A, US3964611 A, US3865245 A,

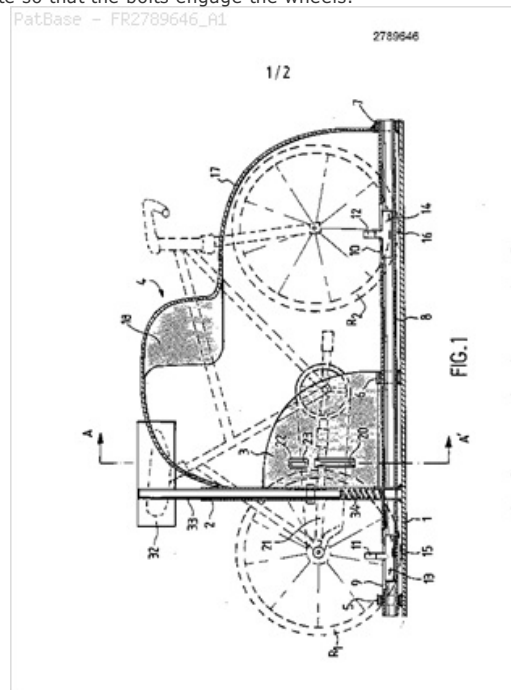
Forward Citations: EP3686095 A1, CN100361859 C,

IT201700057493 A1

EP1712456 A3, FR2884216 A1, EP1712456 A2,

Abstract:

The anti-theft anchor for a bicycle has a base (1) with a rotary plate (8) carrying two hooked bolts. A vertical frame (2,3) of U-shape receives the rear fork of the bicycle frame (21) so that the wheels are placed on the ground adjacent to the bolts. The locks are actuated by movement of the U-shaped frame to rotate the plate so that the bolts engage the wheels.

**51) Family number: 17709579** (DE9419920 U1)

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Title: Locker SYSTEM FOR DUAL WHEELS (Machine translation)

Priority: DE19940019920U 19941213

Family:	Publication number	Publication date	Application number	Application date
	DE9419920 U1	19950330	DE19940019920U	19941213

Probable Assignee: ALGEMA GMBH FAHRZEUG U MASCH

Assignee(s):(std): ALGEMA GMBH FAHRZEUG U MASCH ; ALGEMA GMBH FAHRZEUG UND MASCH

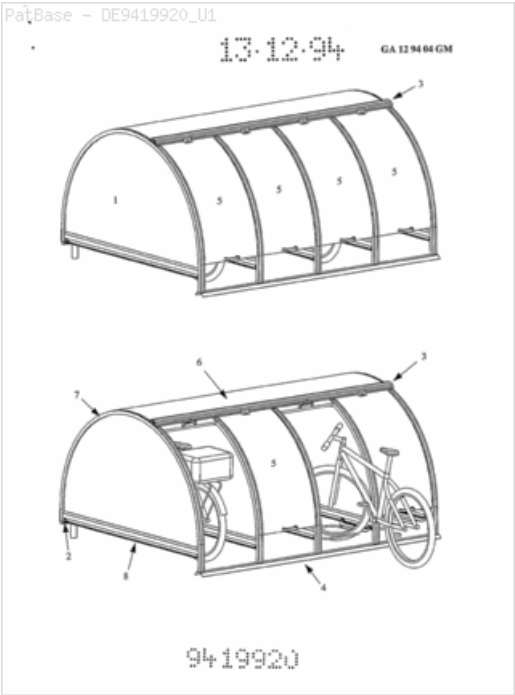
Assignee(s): ALGEMA GMBH FAHRZEUG U MASCHINENBAU TATTENHAUSEN 83109 GROSKAROLINENFELD DE ; ALGEMA GMBH FAHRZEUG UND MASCHINENBAU TATTENHAUSEN ; ALGEMA GMBH FAHRZEUG UND MASCHINENBAU TATTENHAUSEN 83109 GROSKAROLINENFELD DE

International class B62H3/00 E04H6/00

(IPC 8-9):

International class B62H5/00 E04H6/02
(IPC 1-7):
CPC: B62H3/00 E04H6/005
[Classification Explorer](#)
Forward Citations: FR2872534 A1,

Abstract:
Source: DE9419920 U1 **Machine translation:** (Claim 1) 1 Locker system for two wheels wherein, - that the enclosure is executed in a substantially semi-circular shape and in a modular system, - that the housing is essentially of a plurality of similar semi-circular partition walls of the (1) that is used as such by several (B. three) connection traverses (2.3, 4) in a defined distance from and parallel to each other are connected and thus multiple locking trays are combined into a transportfaehigen unit - that the whole unit is in the rear area (6) covered against burglary, and in the front area of each locker is individually, each with a circular segment schieberarti-shaped element (5) executed closable, - that the whole unit is normally due to cost and Pflegegruenden with one in the bottom area encircling the open gap is executed, however, alternatively, for example, with additional elements completely can be closed - that each safe is equipped with a horizontally loading direction movable trolley (11) fitted, which is suitable to take the front wheel of a bicycle in is deflected state and thus a space-saving sliding the two-wheeler made it possible.



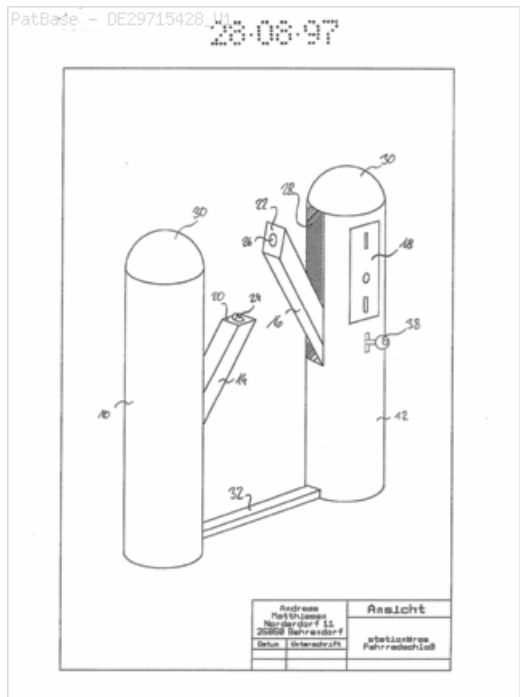
52) Family number: 16939582 (DE29715428 U1) © PatBase

Title: Stationary Fahrradschloss
Priority: DE19972015428U 19970828
Family:

Publication number	Publication date	Application number	Application date
DE29715428 U1	19980115	DE19972015428U	19970828

Probable Assignee: MATTHIESEN ANDREAS
Assignee(s):(std): MATTHIESEN ANDREAS
Assignee(s): MATTHIESEN ANDREAS 25850 BEHRENDORF DE
International class B62H3/00 G07F17/10
(IPC 8-9):
International class B62H3/00 B62H5/08 G07F17/10
(IPC 1-7):
CPC: B62H3/00 G07F17/10
[Classification Explorer](#)
Forward Citations: WO10058127 A1, FR2938818 A1, EP1698749 A3, US8678205 BB, EP1698749 A2,

Abstract:
Source: DE29715428 U1 **Machine translation:** (Claim 1) • ** M 5150 ANSPR U CHE 1. Stationary Fahrradschloss, is characterised by two posts (10, 12), from those verschwenkbareAr m e (14, 16) into a i m substantial horizontal position in each case are one on the other too tiltable, whereby one (16) is lockable these acres m e over an actuation equipment in its lowered position.



53) Family number: 17701667 (DE9410464 U1)

© PatBase

Title: Flexible STORAGE SYSTEM (Machine translation)

Priority: DE19940010464U 19940701

Publication number	Publication date	Application number	Application date
DE9410464 U1	19941020	DE19940010464U	19940701

Probable Assignee: KUEHNE FOERDERTECHNIK

Assignee(s):(std): EBF INGENIEURGESELLSCHAFT F ; EBF INGENIEURGESELLSCHAFT FUER ; KUEHNE FOERDERTECHNIK

Assignee(s): EBF INGENIEURGESELLSCHAFT F UMWELT U BAUTECHNIK MBH 01069 DRESDEN DE ; EBF INGENIEURGESELLSCHAFT FUER UMWELT UND BAUTECHN ; EBF INGENIEURGESELLSCHAFT FUER UMWELT UND BAUTECHNIK MBH 01069 DRESDEN DE ; KUEHNE FOERDERTECHNIK 01623 LOMMATZSCH DE

International class (IPC 8-9): B62H3/00 B65G1/02 B65G1/04 E04H6/00

International class (IPC 1-7): B62H3/00 B65G1/12 B65G1/137 E04H6/10

CPC: B62H3/00 B65G1/026 B65G1/045 E04H6/005

[Classification Explorer](#)

Cited documents: WO8908578 A1, US4867629 A, DE9409373 U1, DE9409373 U, DE9308570 U1, DE9308570 U, DE8712987 U1, DE8712987 U, DE4307481 A1, DE4237042 C1, DE4210902 A1, DE4128578 A1, DE4110780 A1, DE2817994 A1, DD278114 A1,

Forward Citations: US9890549 BB, US2016312487 AA, WO08083669 A3, WO08083669 A2, WO9617148 A1, ES2345026 AA, WO10103149 A1, DE19621222 A1, DE19525515 A1, NL1011380 C2, ES2112143 AA, EP1031679 A1, DE19831886 A1, DE19817254 A1, DE9414993 U1,

Abstract:

Source: DE9410464 U1 **Machine translation:** (Claim 1) 1 Flexible storage system for theft-proof housing movable goods such as bicycles, prams, skis, hand luggage or bulky Einkaufsgegenstaende, consisting of a number of boxes that are arranged side by side or one above the other characterized by the fact that the boxes (2) a kreisringsektorfoermigen plan exhibit and each other to a vertically arranged rigid rotating drum (1) are connected, which consists of one or more stacked layers (3) that the rotating drum (1) on a turntable (4) rotatably mounted, that at several levels (3) the rotating drum (enclosed 1) by one on the turntable (4) arranged lifting device (5) movably vertically is that the rotating drum (1) at least peripherally by a small spaced building envelope (30) is that the building envelope (30) a passage (31 exhibits), located on the outside of the building envelope (30), an operator station (6) connects to the outlet (31) by a door (7) is closed off, which is secured by a locking system (8). Flexible storage system

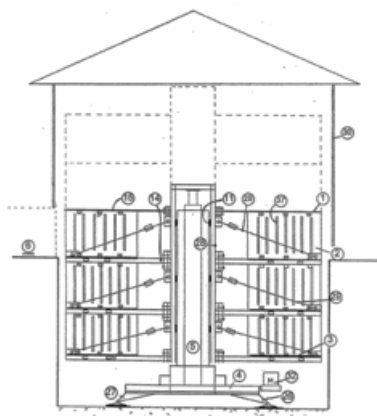


Fig. 1

9410464

54) Family number: 80179006 (EP3686095 A1)

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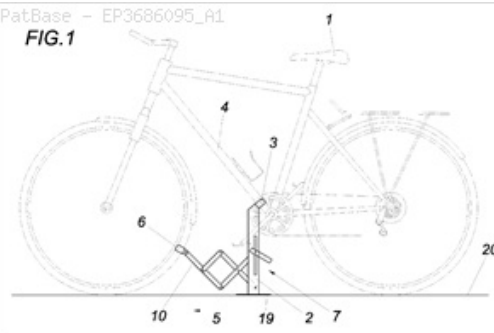
Title: HOLDER FOR A BICYCLE IN ITS DRIVING POSITION**Priority:** AT20190050056 20190124**Family:**

Publication number	Publication date	Application number	Application date
■ AT522132 A1	20200815	AT20190050056	20190124
■ EP3686095 A1	20200729	EP20200152817	20200121

Probable Assignee: PETER SOVA**Assignee(s):(std):** PETER SOVA ; SOVA PETER**Inventor(s):(std):** PETER SOVA ; SOVA PETER**Agent(s):** HUEBSCHER AND PARTNER PATENTANWAELTE GMBH**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):** B62H3/00 B62H3/04 B62H3/06 B62H3/10**CPC:** B62H3/00 B62H3/04 B62H3/06 B62H3/10[Classification Explorer](#)**Cited documents:** DE9300390 U, GB189811521 A, US5553715 A, DE2905788 A1, DE9300390 U1, US559312 A, US598040 A, FR2789646 A1, EP0124445 A1, ES2349824 AA, DE9215392 U, FR2466226 A1, EP0944517 B1,**Abstract:**

Source: EP3686095 A1 [DE] Es wird eine Halterung fuer ein Fahrrad (1) in seiner Fahrlage, mit einer an einem Steher (2) vorgesehenen Rahmenaufnahme (3) zur Abstuetzung des Fahrradrahmens (4) in einer Fahrriichtung (5), beschrieben. Um eine Halterung der eingangs geschilderten Art so auszugestalten, dass sowohl das Abstellen als auch das Entnehmen des Fahrrades mit geringem Zeit- und Kraftaufwand verbunden ist und dass trotz kompakter Bauweise eine hohe Standsicherheit des abgestellten Fahrrades ermoeeglicht wird, wird vorgeschlagen, dass der Steher (2) auf der der Rahmenaufnahme (3) in Fahrriichtung (5) gegenueberliegenden Seite eine Reifenaufnahme (6) aufweist, die ueber einen Stelltrieb (7) in Fahrriichtung (5) zwischen einer Ruhestellung und einer Haltestellung verlagerbar ist.

FIG.1

**55) Family number: 58903985** (DE202013105488 U1)

© PatBase

Title: Two-wheel LUGGAGE (Machine translation)

Priority: DE201320105488U 20131203

Family:	Publication number	Publication date	Application number	Application date
	DE202013105488 U1	20150416	DE201320105488U	20131203

Probable Assignee: BERGAMONT FAHRRAD VERTRIEB GMBH

Assignee(s):(std): BERGAMONT FAHRRAD VERTRIEB GMBH

International class
(IPC 8-9): B62H5/00 B62J7/00

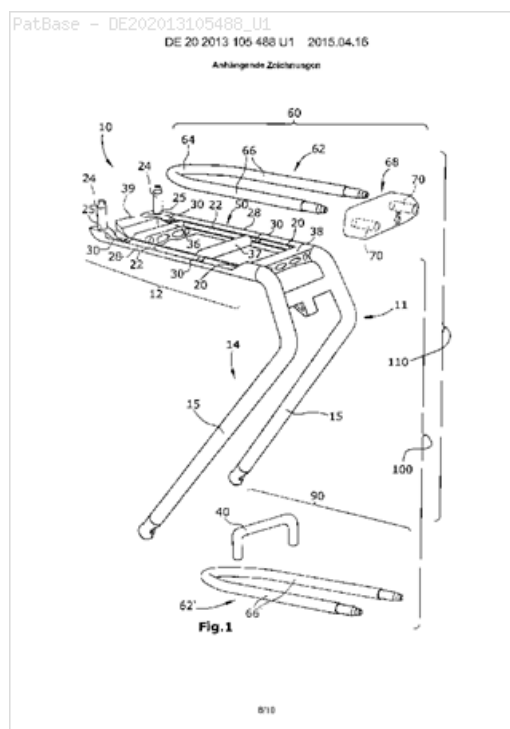
CPC: B62H2005/008 B62H5/00 B62J11/00 B62J7/04

[Classification Explorer](#)

Cited documents: US5251796 A, EP0440052 A1, DE4129729 A1, DE4103295 C1,

Abstract:

Source: DE202013105488 U1 **Machine translation:** Two wheeled luggage rack (10) for attachment to a bicycle frame and for receiving a Buegelschlosses (60) consisting of a Schlossbuegel (62) with two Buegelzapfen (67) to the free ends of the two legs (66) of the Schlossbuegels (62) and a lock bolt (68) having two parallel and lockable Zapfenoeffnungen (70), with a substantially horizontal Matched corner Rage structure (12), the two mutually parallel laengsgerichtete Steckoeffnungen (20) for inserting the Buegelzapfen (67), a top open and accessible from above positive locking structure (50) for receiving the Schlossbuegels (62) and a bolt receptacle (52) for receiving the locking bolt (68), wherein the latch receptacle (52) is designed such that the at the bolt receptacle (52) fixed lock bolt (68) in the form of the final structure (50) lying Schlossbuegel (62) in the form-fitting structure (50) fixed.



56) Family number: 33252654 (EP1693287 A2)

© PatBase

Title: SUPPORT DEVICE FOR BICYCLE

Priority: DE200520002804U 20050222

Family:	Publication number	Publication date	Application number	Application date
	DE202005002804 U1	20050414	DE200520002804U	20050222
	EP1693287 A2	20060823	EP20060001960	20060131
	EP1693287 A3	20071010	EP20060001960	20060131

Probable Assignee: SCHEERER MARTIN

Assignee(s):(std): SCHEERER MARTIN ; SCHNEIDER MARTIN

Inventor(s):(std): SCHEERER MARTIN ; SCHNEIDER MARTIN

Designated states: B 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): B62H3/00 B62H5/00 E04H6/00 E04H6/02 E04H6/04

International class
(IPC 1-7): B62H3/00 B62H5/00

CPC: B62H3/00 E04H6/005

[Classification Explorer](#)

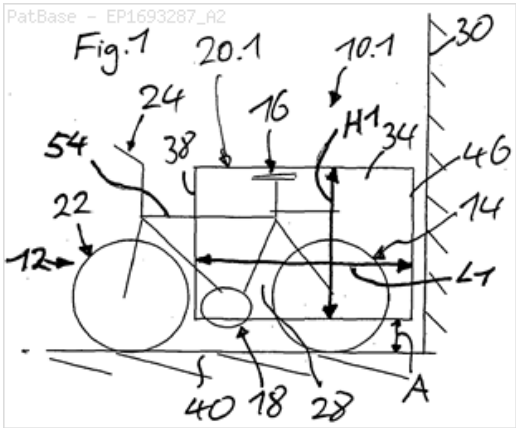
Cited documents: DE8913960 U, US2003097803 AA, EP0015572 A1, DE8913960 U1, DE4333228 A1, DE4310487 A1, DE4235158 A1, DE4105817 A1, DE3937013 A1, DE3732522 A1, DE20315976 U1, DE19959097 A1, DE19518793 A1, DE1184930 B,

Forward Citations: DE102010052793 A1

Abstract:

The parking shelter has a housing (20.1) which is open underneath and which can be fixed on a support structure (30,32) on two

spaced opposite sides so that the internal area of the housing is such that it surrounds the back wheel and saddle area to secure a cycle (12) stored therein. The housing can be attached height adjustable to the support structure. The support structure is formed by a wall (30), frame or at least one post (32).



57) Family number: 12812409 (DE19545816 A1)

© PatBase

Title: Parking and locking up unit for bicycles
Priority: DE19951045816 19951208

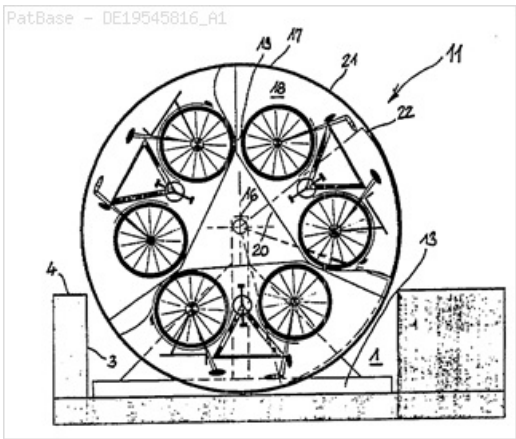
Family:	Publication number	Publication date	Application number	Application date
	DE19545816 A1	19970612	DE19951045816	19951208
	DE19545816 C2	19991028	DE19951045816	19951208

Probable Assignee: KOREK RAINER
Assignee(s):(std): KOREK RAINER
Assignee(s): KOREK RAINER 53844 TROISDORF DE
Inventor(s):(std): KOREK RAINER
Inventor(s): KOREK RAINER 53844 TROISDORF DE
International class (IPC 8-9): B62H3/00 E04H6/00
International class (IPC 1-7): E04H6/16
CPC: B62H3/00 E04H6/005

[Classification Explorer](#)

Cited documents: US3356233 A, DE4237042 C1,
Forward Citations: US8875427 BB, NL1011380 C2, EP1031679 A1,

Abstract:
At least one cylindrical drum (17) is rotatably arranged around a horizontal axis in the frame. The drum has several peripherally displaced boxes (18) each for a bicycle. Three boxes may be incorporated, and may be displaced through 120 degrees around the periphery. The frame comprises a horizontal rectangular basic frame (13), on opposite ends of which are two vertically standing, triangular side walls, the points of which are joined to each other by a fixed shaft (16). Locking devices are provided for fixing the drum in three loading positions 120 degrees apart on the fixed shaft and on each drum. The locking devices incorporate a magnet switch for locking the drum in relation to the shaft.



58) Family number: 74949572 (DE202019001924 U1)

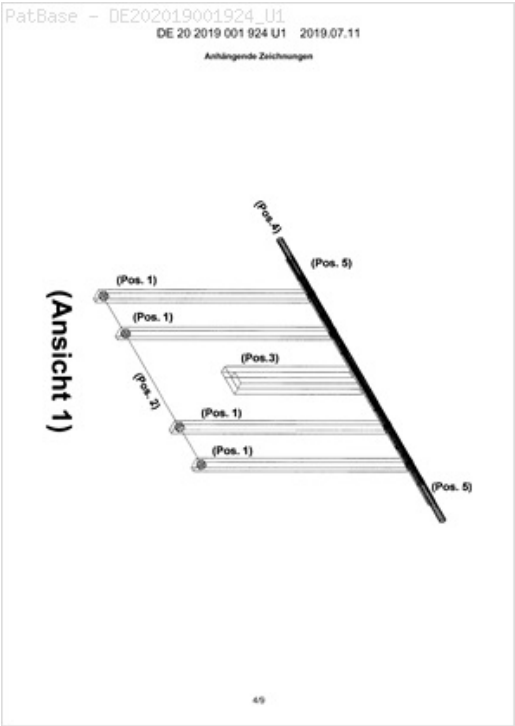
© PatBase

Title: Stationary MOUNTING UNIT FOR TERMINATING E-BIKES AND BICYCLES WITH FRAME LOCK (Machine translation)
Priority: DE201920001924U 20190502

Family:	Publication number	Publication date	Application number	Application date
	DE202019001924 U1	20190711	DE201920001924U	20190502

Probable Assignee: RENNER KLAUS
Assignee(s):(std): RENNER KLAUS
Assignee(s): RENNER
International class (IPC 8-9): B62H3/00
CPC: B62H3/00
[Classification Explorer](#)

Abstract:
Source: DE202019001924 U1 **Machine translation:** Stationary mounting unit in central module, basic module and extension module is divided to E-bikes and bicycles stationary. characterized in that view from the central unit (1) and 2 (2) of the basic module of columns view (View 3).wherein,that further add-on modules (View 5) in any number may be attached.



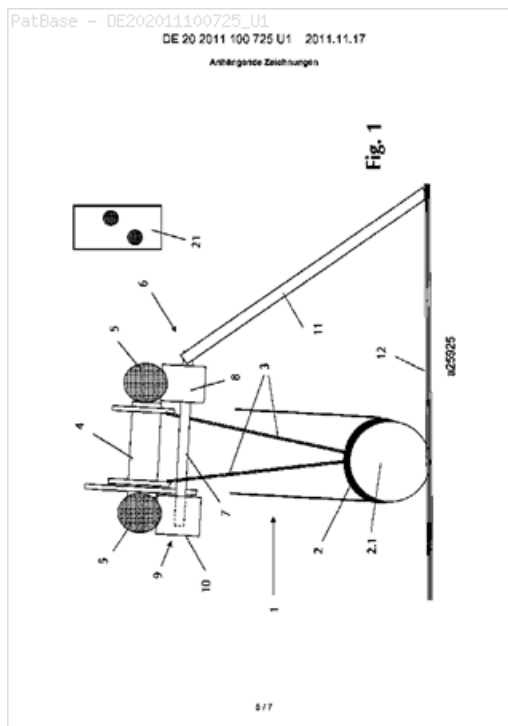
59) Family number: 49903169 (DE202011100725 U1) © PatBase

Title: Locking device (Machine translation)
Priority: DE201120100725U 20110513
Family:

Publication number	Publication date	Application number	Application date
DE202011100725 U1	20111117	DE201120100725U	20110513

Probable Assignee: FROEBEL ECKHARD
Assignee(s):(std): FROEBEL ECKHARD
Assignee(s): FROEBEL
International class (IPC 8-9): B62H5/14 E05B47/00
CPC: B62H1/02 B62H5/141 B62H5/142 E05B2047/0058 E05B2047/0073 E05B2047/0094 E05B47/0603 E05B71/00 E05C3/24
[Classification Explorer](#)
Cited documents: WO99008924, EP1818246, DE2006005467 U, DE2004002290 U, DE10133080, DE549232, DE439207, DE93475,
Forward Citations: CN105035216 A,
DE102014204742 A1
EP2842848 A1,

Abstract:
Source: DE202011100725 U1 **Machine translation:** Locking device for two bikes or bicycles, characterized by a Verschlussbolzen (7) which is movable between a non-occluding position and a position closing and sealing in the position of a wheel (1) the two-wheeler thoroughly at one end to one of a bicycle frame (5) designated storage element (8) and at the other end into one of the bicycle frame (5) provided electronic lock (9) locks, is that over a remote control (21) to release the Verschlussbolzens (7) can be actuated.



60) Family number: 57608719 (AT514139 B1)

© PatBase

Title: Bicycle HOLDER WITH LIFTING MECHANISM AND SEALING MECHANISM AS WELL AS LIGHT-EMITTING ELEMENT, MOVABLE PART (Machine translation)

Priority: AT20130000239 20130402 AT20130000303 20130412

Family:	Publication number	Publication date	Application number	Application date
	AT514139 A2	20141015	AT20130000303	20130412
	AT514139 A3	20161115	AT20130000303	20130412
	AT514139 B1	20170915	AT20130000303	20130412

Probable Assignee: JOHANNES HABERL

Assignee(s):(std): HABERL JOHANNES ; JOHANNES HABERL

Inventor(s):(std): HABERL JOHANNES ; JOHANNES HABERL

International class (IPC 8-9): B62H3/00 B62H3/12 B62H5/14

CPC: B62H3/00 B62H3/12 B62H5/142 B62H5/144

[Classification Explorer](#)

Cited documents: DE2458502 A1, DE4119403 A1, JP64066377, WO09136766 A2,

DE102010025279 A1

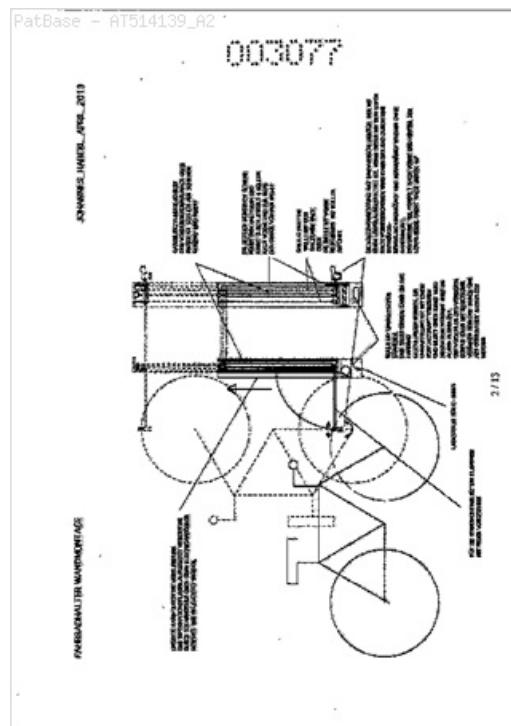
AT508326 A2,

Forward Citations: DE102014019274 B4

DE102014019274 A1

Abstract:

Source: AT514139 B1 **Machine translation:** The invention relates to a bicycle holder (1) with a fixed component (2) which is arranged so as to be displaceable upwards (drag) and a lifting portion (3) (top box) for a bicycle (10), wherein the front wheel of the bicycle (11) (10) on the lift portion (3) and the lift can be fixed part (3), a pin (4) mounted on a holding gripper (5) for the front wheel (11), wherein the pin (4) with the aid of a pulling member (6) so as to be displaceable in the upward lifting part (3) is threaded. According to the invention, the retaining hook (5) has a U-shaped bracket (7) which, by way of a laterally pivotable, spring-loaded door (8) closable, wherein the flap (8) comprises a bucket-like protrusion (9), with which the flap (8) with the aid of the front wheel (11) is operable.



61) Family number: 12654089 (EP0919457 A1)

© PatBase

Title: BICYCLE STAND PIVOTABLY MOUNTED ON A BICYCLE
Priority: DE19971052349 19971126 DE19985000991T 19981028
Family:

Publication number	Publication date	Application number	Application date
AT202985 E	20010715	AT19980120384T	19981028
DE19752349 A1	19990602	DE19971052349	19971126
DE59800991 D1	20010816	DE19985000991T	19981028
EP0919457 A1	19990602	EP19980120384	19981028
EP0919457 B1	20010711	EP19980120384	19981028

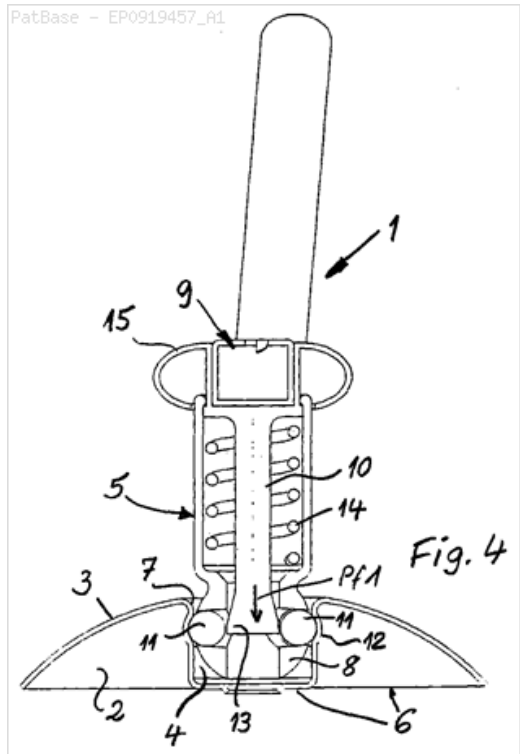
Probable Assignee: WELTE RAINER
Assignee(s):(std): WELTE RAINER
Assignee(s): WELTE RAINER 79117 FREIBURG DE
Inventor(s):(std): WELTE RAINER
Inventor(s): WELTE RAINER 79117 FREIBURG DE
Designated states: AT CH DE FR GB IT LI NL
International class (IPC 8-9): B62H3/00 B62H5/00
International class (IPC 1-7): B62H3/00 B62H5/00 B62H5/16 E05B71/00
CPC: B62H3/00 B62H5/005

[Classification Explorer](#)

Cited documents: DE9307927 U, DE29513484 U, GB2248594 A1, FR2695614 A1, DE9307927 U1, DE4310590 A1,
Forward Citations: DE112005000088 B4

Abstract:

The free end of the stand (1) can be removably coupled to a ground anchorage (2) fixed to the supporting surface. The anchorage is flat on the top with an upwardly open aperture (4) which faces up in the operating position. The stand has a protrusion on its free end which fits into the aperture



62) Family number: 11421624 (US5278538 A)

© PatBase

Title: BICYCLE SECURITY SYSTEM

Priority: US19920871112 19920420

Family:

Publication number	Publication date	Application number	Application date
US5278538 A	19940111	US19920871112	19920420

Probable Assignee: AINSWORTH KATHRYN L

Assignee(s):(std): AINSWORTH KATHRYN L ; BEEZER MARK B

Inventor(s):(std): AINSWORTH KATHRYN L ; BEEZER MARK B

International class (IPC 8-9): B62H3/00 B62H3/04 B62H5/00 G07C9/00 G07F17/00 G07F17/10 G07F17/24 G07F7/00 G07F7/02

International class (IPC 1-7): B60R25/10 B62H5/00 B62J3/00

CPC: B62H3/04 B62H5/00 G06Q20/127 G06Q20/342 G07C9/00722 G07F17/0014 G07F17/10 G07F17/24 G07F7/025 Y10T70/5881

US class: 180/287 211/5 235/382 307/10.5 340/427 340/432 340/5.42 340/542 340/825.33 379/49 70/235

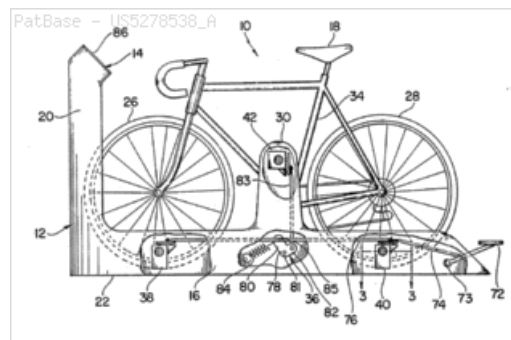
[Classification Explorer](#)

Cited documents: US4939352 A, US4920334 A, US4891503 A, US4830167 A, US4727368 A,

Forward Citations: US2015330109 AA, US10641014 BB, US2017249808 AA, JP2017508668 T2, EP1025468 A4, CN107221055 A, EP3096985 B1, EP2093718 B1, US10040498 BB, WO18078467 A1, US9862440 BB, US9840855 BB, US2017008583 AA, EP0877341 A3, US9371101 BA, WO15112917 A1, US2011226708 AA, US2010204823 AA, US2010208421 AA, US2011179837 AA, US2010171603 AA, US2010178140 AA, US2010313614 AA, US2009178446 AA, US2008046754 AA, US9156436 BB, US2005284036 AA, US2003107470 AA, US8963681 BB, US8678205 BB, WO10058127 A1, US8508333 BB, US8437873 BB, US2010245128 AA, US5832753 A, GB2420327 A1, WO0061420 A1, WO05055161 A1, US7571628 BB, GB2329882 A1, US2009201127 AA, US2010163503 AA, US7394347 BB, USD632616 S1, USD632617 S1, FR2763554 A1, EP2093718 A1, FR2927714 A1, US6177879 BA, US5841351 A, EP0877341 A2, US7694830 BA, USD625228 S1, FR2938818 A1, US6116506 A, EP0803846 A1, US6094643 A, US5884289 A, US6230971 BA, DE4407804 A1, GB2327069 A1, EP1025468 A1, USD605093 S1, BE1013008 AD, FR2863089 A1, WO03008236 A1, US7472517 BB, EP1308380 A1, US6053336 A, US5944198 A, US5946660 A, US5917407 A, US5607064 A,

Abstract:

A bicycle security system includes a locking bicycle rack and employs a user's automated teller banking card to operate the system and debit charges accrued in connection with use of the system from the user's bank account. The locking system has an electronic control means which locks and unlocks the bicycle rack by means of a banking card. The electronic control means includes a timer which tracks time in connection with use of the system. The control means thereafter calculates a charge based upon the use of the system and debits the accrued charges from the user's bank account via telephone modem. The locking bicycle rack incorporates three locking pins which lock the bicycle at the frame, the front wheel and the rear wheel to provide a high degree of security.



63) Family number: 56019171 (US2014076010 AA)

© PatBase

Title: MULTI-ACCESS LOCK
Priority: US20120619517 20120914 US20150521083F 20150319 US20160583600F 20161107
 US20160583607F 20161107

Family:	Publication number	Publication date	Application number	Application date
	■ CN203769479 U	20140813	CN201320527064U	20130827
	■ US2014076010 AA	20140320	US20120619517	20120914
	■ USD773282 S1	20161206	US20150521083F	20150319
	■ USD806518 S1	20180102	US20160583600F	20161107
	■ USD806519 S1	20180102	US20160583607F	20161107

Probable Assignee: GOLD SCOTT
Assignee(s):(std): GOLD SCOTT
Inventor(s):(std): GOLD SCOTT
Agent(s): LAWRENCE S
International class E05B37/02 E05B67/00 E05B67/06 E05B67/18
(IPC 8-9):

CPC: E05B63/143 E05B67/063 E05B67/36 E05B71/00 Y10T70/413 Y10T70/415 Y10T70/417 Y10T70/437 Y10T70/491

US class: 70/20 70/21 70/22 70/31 70/53 D8/339

Locarno class: 08/07

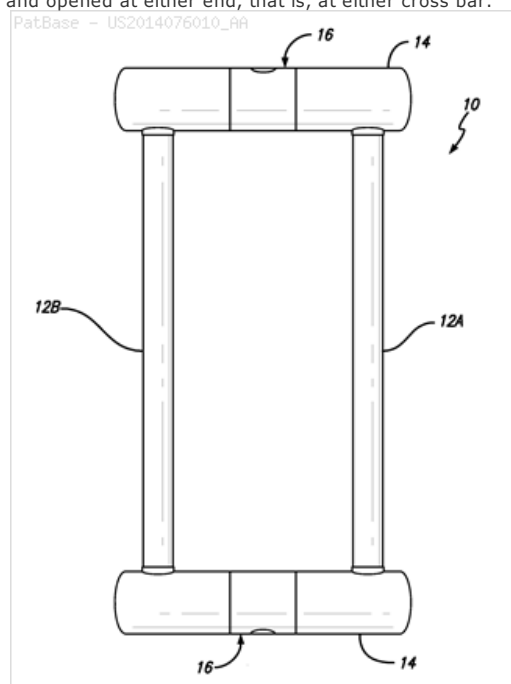
[Classification Explorer](#)

Cited documents: USD295719 S1, US5488844 A, US5467620 A, USD722262 S1, USD709105 S1, USD698621 S1, US9163431 BB, USD686485 S1, US6718802 BB, US5992182 A, US5921116 A, US5832752 A, USD239003 S1, USD238548 S1, US5706679 A, US5642635 A, US5505064 A, US5101646 A, US5092142 A, US3805564 A, US8839650 BB, US8640507 BA, US4884420 A, US4302954 A, US3738132 A,

Forward Citations: EP3183405 B1, US10240367 BB, US9670698 BB, US9562373 BA, WO16038337 A1, WO16029212 A1, US2015013399 AA, WO14201046 A1, US9163431 BB, GB2518971 A1, US2015059421 AA, USD731010 S1,

Abstract:

A locking device useful for example for bicycles in which a pair of shackles is spaced apart and fittable into cross bars, each cross bar having a locking mechanism so that the locking device can be locked and opened at either end, that is, at either cross bar.



64) Family number: 3411052 (DE3123153 A1)

© PatBase

Title: Device for storing bicycles
Priority: DE19813123153 19810611 DE19823245243 19821207
Family:

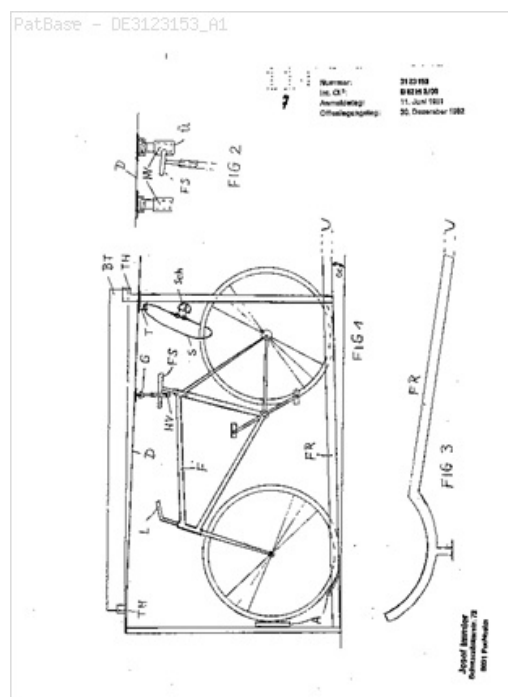
Publication number	Publication date	Application number	Application date
DE3123153 A1	19821230	DE19813123153	19810611
DE3245243 A1	19840607	DE19823245243	19821207

Probable Assignee: IMMLER JOSEF
Assignee(s):(std): IMMLER JOSEF
Inventor(s):(std): IMMLER JOSEF
International class (IPC 8-9): B62H3/00 E04H6/00
International class (IPC 1-7): B62H3/00
CPC: B62H3/00 E04H6/005

[Classification Explorer](#)

Forward Citations: EP0718454 A1, US4794770 A, DE3238404 A1, US6976279 BA, DE9402115 U1,

Abstract:
Published without abstract.



65) Family number: 54589474 (US2014341683 AA)

© PatBase

Title: REMOTE STORAGE SYSTEM
Priority: AU20120900598 20120217 WO2013AU00134 20130215 AU20130220934 20130215
Family:

Publication number	Publication date	Application number	Application date
AU2013220934 AA	20130822	AU20130220934	20130215
AU2013220934 BB	20160908	AU20130220934	20130215
GB201414220 A0	20140924	GB20140014220	20130215
GB2513278 A1	20141022	GB20140014220	20130215
US2014341683 AA	20141120	US20140341161	20140725
WO13120141 A1	20130822	WO2013AU00134	20130215

Probable Assignee: LEE ADRIAN
Assignee(s):(std): LEE ADRIAN ; LEE ADRIAN M Y ; LEE ADRIAN MIN YAN
Assignee(s): ADRIAN MIN YAN LEE
Inventor(s):(std): LEE ADRIAN MIN YAN
Inventor(s): ADRIAN MIN YAN LEE
Agent(s): WRAYS
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): B62H3/00 B62H3/04 B62H3/08 B65G69/26 B65G7/02 E04H6/16 E04H6/30 G06Q10/08 G06Q30/06
CPC: B62H2003/005 B62H3/00 B62H3/04 E04H6/16 G06Q10/087 G06Q30/0645 B62H3/08 B65G69/26 B65G7/02 E04H6/30

US class: 414/227 414/800

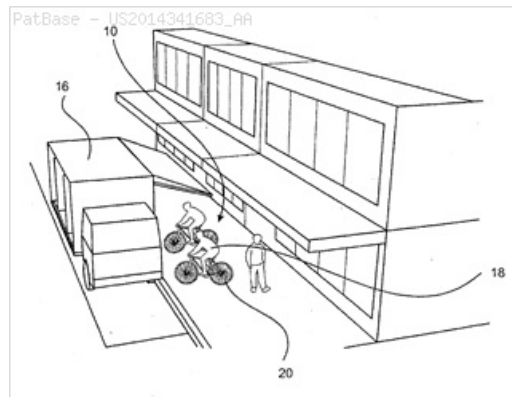
[Classification Explorer](#)

Cited documents: US2010204823 AA, US7677592 BB, JP9310526 A2, US6506630 BB, US4386709 A, JP2004148912 A2, JP2001027051 A2, JP5010526 A2,

Forward Citations: CN107464360 A, CN107107935 B, EP3247610 B1, CN107107935 A, CN107472785 A, WO16116701 A1, FR3031716 A1, USD768545 S1,

Abstract:

A remote storage system for items includes contact areas at different locations for the collection of the items individually, a storage area for secure storage of the items received from the contact areas, and transportation vehicles for receiving and offloading the items at the contact areas and one or more conveying vehicles for transporting the items to and from the storage area, wherein the transportation vehicles circulate between the contact areas so that each of the contact areas exists for a discrete time period dependent on the arrival of a transportation vehicle.



66) Family number: 52062753 (EP2505463 A1)

© PatBase

Title: MULTI-FUNCTION BYCICLE ACCESSORY

Priority: IT2011FI00019U 20110330 EP20120161998 20120329

Family:	Publication number	Publication date	Application number	Application date
	DE602012017988 D1	20160616	DE201260017988T	20120329
	EP2505463 A1	20121003	EP20120161998	20120329
	EP2505463 B1	20160504	EP20120161998	20120329
	ES2585834 T3	20161010	ES20120161998T	20120329
	ITFI20110019 U1	20121001	IT2011FI00019U	20110330

Probable Assignee: BORSETTO GIOVANNI

Assignee(s):(std): BORSETTO GIOVANNI ; INNOCENTI ROBERTO

Inventor(s):(std): INNOCENTI ROBERTO

Agent(s): ISERN JORGE; SOLDATINI ANDREA

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): B60R9/10 B62H3/00 B62H3/10 B62J11/02 F04B33/00

CPC: B60R9/10 B62H3/00 B62H3/10 B62J11/02 F04B33/005

[Classification Explorer](#)

Cited documents: DE580485 A,

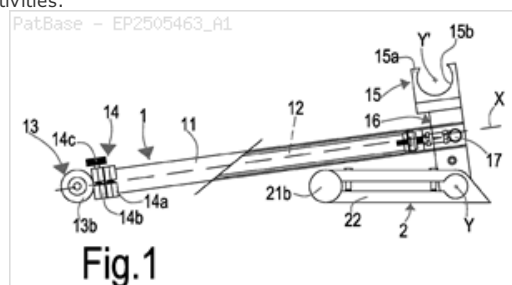
DE202010012299 U1

FR2409173 A1, US5497967 A, US2010059563 AA,

Forward Citations: US10766552 BB, EP3378742 B1, EP3378742 A1, US9371042 BA, WO15093773 A1,

Abstract:

The present invention concerns the field of bicycle accessories in general and, in particular, regards a multi-function accessory useful in different transport and maintenance circumstances of a bicycle, in particular, but not limited to, a bicycle with quick release wheels as those destined to recreational or competitive sports activities.



67) Family number: 13138328 (DE19624057 A1)

© PatBase

Title: Storage lift for bicycles

Priority: DE19961024057 19960617

Family:	Publication number	Publication date	Application number	Application date
	DE19624057 A1	19971218	DE19961024057	19960617

Probable Assignee: KEMPER KARL

Assignee(s):(std): KEMPER KARL

Assignee(s): KEMPER KARL 48161 MUENSTER DE

Inventor(s):(std): KEMPER KARL

Inventor(s): KEMPER KARL 48161 MUENSTER DE

International class (IPC 8-9): B62H3/00 E04H6/00

International class (IPC 1-7): B62H3/00 B66D1/60 B66F7/02 E04H6/14

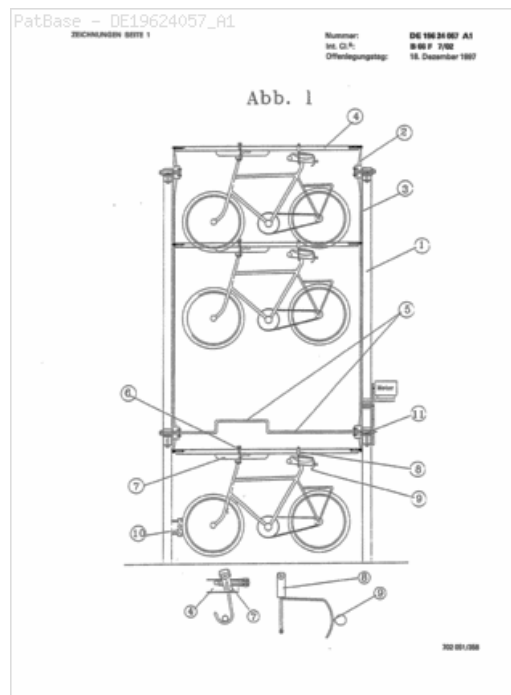
CPC: B62H3/00 E04H6/005

[Classification Explorer](#)

Forward Citations: CN109677512 B, CN109677512 A, CN109113392 A, CN106988569 A, NL1035402 C2, NL1030394 C2, DE19900006 A1, DE19817254 A1,

Abstract:

The storage lift has a support frame (1) with a bicycle carrying chain (3) mounted on sprockets (2,11) carried on four transverse support beams (4). The diameter of the sprockets is selected to the required spacing of the wheels during loading and discharge movement of the bicycles. The spacing height of the bicycles is also selected. Between both chains, are positioned rectangular transverse supports mounted for rotation. The transverse support beams have handlebar and saddle holders (6,8) mounted on them.



68) Family number: 17858453 (DE29708639 U1)

© PatBase

Title: Wall owner for a two-wheeler, in particular bicycle

Priority: DE19972008639U 19970515

Family:	Publication number	Publication date	Application number	Application date
	DE29708639 U1	19970821	DE19972008639U	19970515

Probable Assignee: BISCHOF LEONHARD

Assignee(s):(std): BISCHOF LEONHARD

Assignee(s): BISCHOF LEONHARD 34582 BORKEN DE

International class (IPC 8-9): B62H3/00

International class (IPC 1-7): B62H3/00

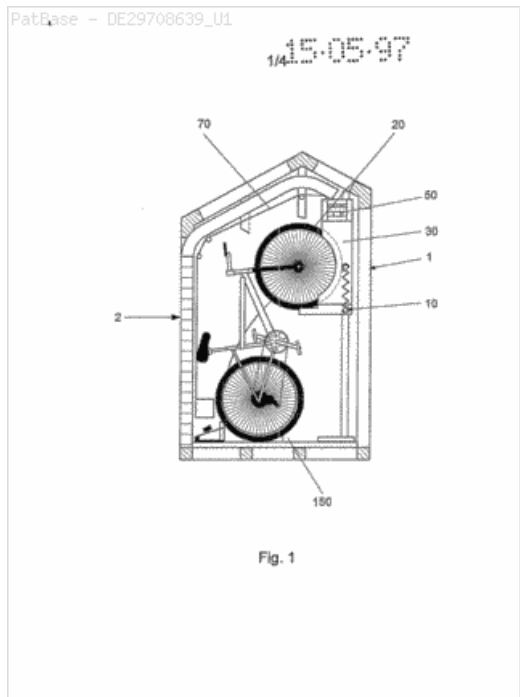
CPC: B62H3/00

[Classification Explorer](#)

Forward Citations: WO14202926 A3, DE10032594 A1,

Abstract:

Source: DE29708639 U1 **Machine translation:** (Claim 1) claims 1 Holder for a bicycle, especially bicycle, with a one wheel desZweirades detected lift, with lifting device, a clamping device for detecting a wheel Zweiradesaufweist of, thereby gekennzeichnet ch ne t, dassdie clamping device (30) two jaws (31, 32, 90, 91) includes, where seitlicherfassbar by the jaws of the mantle of the wheel.



69) Family number: 17660287 (DE9300203 U1)

© PatBase

Priority: DE19930000203U 19930109

Family:	Publication number	Publication date	Application number	Application date
	DE9300203 U1	19930708	DE19930000203U	19930109

Probable Assignee: BIEDERMANN KARL LUDWIG 7032 SINDELFINGEN DE

Assignee(s): BIEDERMANN KARL LUDWIG 7032 SINDELFINGEN DE

International class
(IPC 8-9): B62H3/00 E04H6/00

International class
(IPC 1-7): B62H3/00 E04H6/02

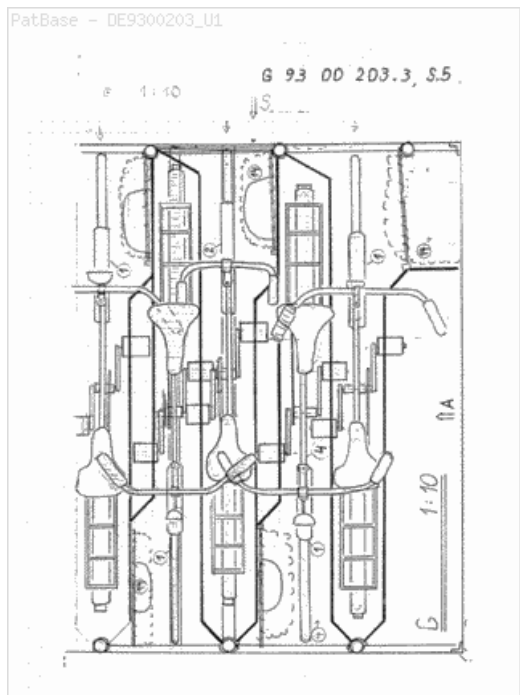
CPC: B62H3/00 E04H6/005

[Classification Explorer](#)

Forward Citations: DE9402115 U1, DE4428100 A1,

Abstract:

Source: DE9300203 U1 **Machine translation:** (Claim 1) protection claims: each individually and in combination: 1 Bicycle box group with spatial height of the handlebars 2nd Graduation Bicycle box group with lower and upper third floor Under doors with lock and latch flaechenversenkter, and Verriegelungsgestaenge Entriegelungsgestaenge for two upper doors dargberliegende fourth



70) Family number: 73927651 (US2019106170 AA)

© PatBase

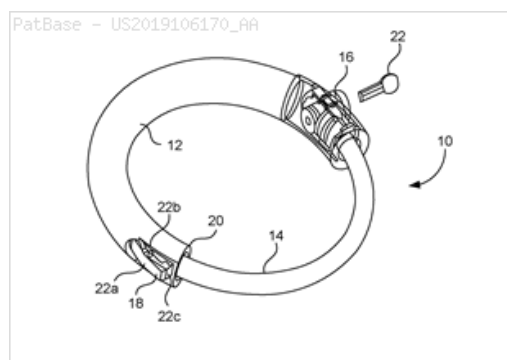
Title: BIKE LOCK
Priority: US20170571226P 20171011 US20180155188 20181009
Family:

Publication number	Publication date	Application number	Application date
US2019106170 AA	20190411	US20180155188	20181009

Probable Assignee: HAGEN WYATT SVEN
Assignee(s):(std): HAGEN WYATT SVEN ; IWANAGA JONAH LIGHT
Inventor(s):(std): HAGEN WYATT SVEN ; IWANAGA JONAH LIGHT
International class B62H5/00 E05B67/00 E05B71/00
(IPC 8-9):
CPC: B62H5/003 E05B67/003 E05B67/28 E05B71/00 E05B73/0005
US class: 1/1

[Classification Explorer](#)**Abstract:**

A bike lock has an outer bar, an inner bar having a portion slidably received within the outer bar so as to move between a retracted position and an extended position, and a locking mechanism cooperative with the outer bar and the inner bar so as to lock the inner bar in the extended position. The outer bar is a tubular member that has an interior passageway. The inner bar is received in the interior passageway. The outer bar and the inner bar have a circular configuration when in the fully extended position. A latching mechanism is cooperative with the outer bar and the inner bar so as to retain the inner bar in the retracted position.

**71) Family number: 58727903** (US2015075234 AA)

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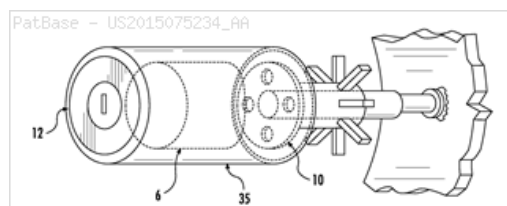
Title: SEPARATE FRONT AND REAR BICYCLE BIKE BOLT LOCKS AND COMBINATION LOCKING MECHANISM
Priority: US20130879814P 20130919 US20140153985 20140113
Family:

Publication number	Publication date	Application number	Application date
US2015075234 AA	20150319	US20140153985	20140113

Probable Assignee: DINAPOLI EDWARD
Assignee(s):(std): DINAPOLI EDWARD
Inventor(s):(std): DINAPOLI EDWARD
International class E05B71/00
(IPC 8-9):
CPC: B62H5/06 E05B71/00 Y10T70/5872
US class: 70/233

[Classification Explorer](#)**Abstract:**

A deadbolt lock is utilized to lock a turned wheel in place at an angle from its ordinary orientation. Perforations in the hollow tube match perforation in the head tube whereupon the bolt from the keyed lock may be inserted upon turning of a key. A rear wheel friction lock is provided having a member having a deadbolt lock that extends a frictional rubber device to make contact and block further rotation of the tire. Finally, a dual rack and pinion system has a key lock activated pinion articulating oppositely operating rack members; a pin or bolt lock blocks front tire and wheel movement and a hinged friction lock blocks rear tire and wheel motion.

**72) Family number: 80052691** (DE202020100785 U1)

© PatBase

Title: SYSTEM FOR SHUTTING OFF A VEHICLE (Machine translation)

Priority: NL20192022574 20190214

Family:	Publication number	Publication date	Application number	Application date
	DE202020100785 U1	20200730	DE202020100785U	20200213

Probable Assignee: AXA STENMAN NEDERLAND BV

Assignee(s):(std): AXA STENMAN NEDERLAND BV

Agent(s): VEREENIGDE OCTROOIBUREAUX VO

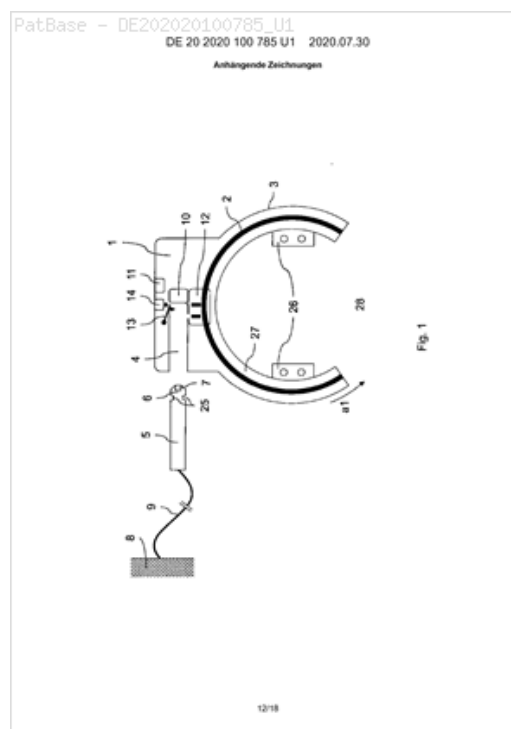
International class (IPC 8-9): B62H5/00 E05B71/00

CPC: B62H5/142 B62H5/147 B62J45/41 B62J45/423 E05B71/00

[Classification Explorer](#)

Abstract:

Source: DE202020100785 U1 **Machine translation:** For shutting off a vehicle system, comprising: at least one connector (5),- a RFID tag (7); and a lock (1) which includes a locking pin (2) to block movement of a portion of the vehicle, wherein the lock (1) a plug receptacle (4) for receiving the connector (5), wherein the lock comprises a RFID reader (10) configured to read the RFID tag (7) of the plug connector (5) is configured.



73) Family number: 17760778 (DE29617046 U1)

© PatBase

Title: Bicycle lock light

Priority: DE19962017046U 19961001

Family:	Publication number	Publication date	Application number	Application date
	DE29617046 U1	19970403	DE19962017046U	19961001

Probable Assignee: WINKHAUS AUGUST FA

Assignee(s):(std): WINKHAUS AUGUST FA ; WINKHAUS FA AUGUST

Assignee(s): AUG WINKHAUS GMBH AND CO 48291 TELGTE DE KG ; AUG WINKHAUS GMBH AND CO KG 48291 TELGTE DE

International class (IPC 8-9): B62H5/00 B62J6/00 E05B17/00 E05B17/10 E05B67/00 E05B71/00

International class (IPC 1-7): B62H5/00 B62J6/00 E05B71/00

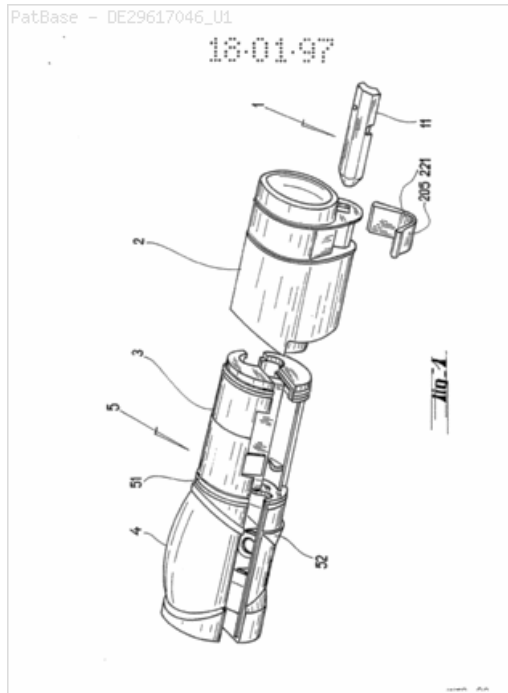
CPC: B62H5/003 B62J6/00 E05B17/10 E05B67/003 E05B71/00

[Classification Explorer](#)

Forward Citations: WO10103327 A3, WO06021781 A1, WO10103327 A2,

Abstract:

Source: DE29617046 U1 **Machine translation:** (Claim 1) 1 Device for theft and / o the light flow in securing a vehicle, especially a two-wheeled vehicle (bicycle lock-lamp), with-a Schlossleuchtenkoerper (5), the at least one lock and an adjoining anschliessendenLeuchtenkoerper (2, 3) and a Schliesskabel (7) exhibits, and a retaining device (1), which is at least associated with demFahrzeug (8), characterized in that: - the Schlossleuchtenkoerper (5) from a lamp and a battery-half-shell (51, 52) is that over a the Schlosskoerper (3) sliding Sicherheitshohlkoerper (22) together are, and that is arranged on Sicherheitshohlkoerper (22), a squad I koerper (24), which form a Sicherheitskoerper (2), with the Schliesskabel (7) with one end (Cable fixing end 74 connected to) and at its other end Verschlusskoerper {73) and with the holding device (1) is connected.



74) Family number: 70160318 (CA2999586 AA)

© PatBase

Title: BICYCLE STAND AND A METHOD OF ASSEMBLING A BICYCLE

Priority: CA20182999586 20180328

Family:

Publication number	Publication date	Application number	Application date
■ CA2999586 AA	20180612	CA20182999586	20180328
■ CA2999586 C	20181204	CA20182999586	20180328

Probable Assignee: SZORDYKOWSKI KARL

Assignee(s):(std): SZORDYKOWSKI KARL

Assignee(s): LIME TREE ASSEMBLY INC

Inventor(s):(std): SZORDYKOWSKI KARL

Agent(s): RIDOUT AND MAYBEE LLP

International class B62H3/00

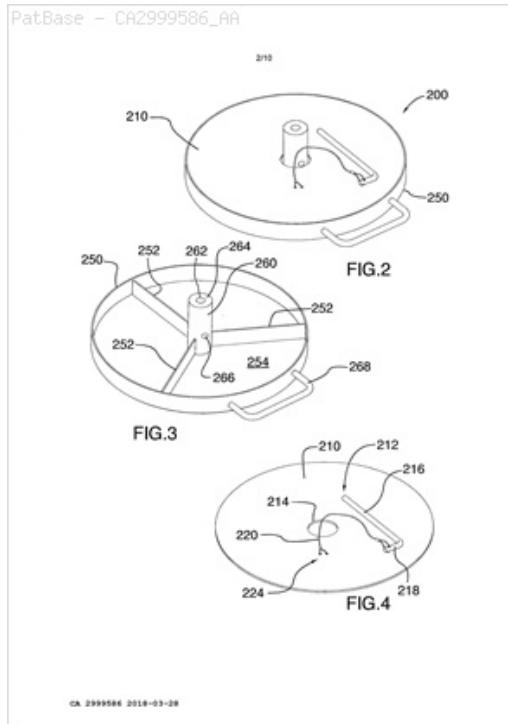
(IPC 8-9):

CPC: B25H1/0014 B62H3/00 B62H3/02

[Classification Explorer](#)

Abstract:

A bicycle stand for supporting a bicycle or bicycle frame during assembly or repair, and a method of assembling a bicycle are provided. In one embodiment, the bicycle stand comprises a base for contact with a ground surface, and a post extending substantially vertical from the base and being supported by the base. The post includes a cylindrical receiving portion located at an upper end thereof for engaging a seat tube of a bicycle frame while the bicycle is in an upside-down or inverted position. The cylindrical receiving portion has a diameter of greater than 0.5 inches and less than 0.75 inches. A seat adapted for supporting the bicycle frame is located below the cylindrical receiving portion. The seat is positioned between 30 inches and 60 inches above the ground surface. The bicycle can be freely rotated about a central axis of the post while being supported by the bicycle stand in the upside-down or inverted position.



75) Family number: 10338995 (US5560445 A)

© PatBase

Title: CONTAINING STRUCTURE FOR VEHICLE LOCK DEVICE IN MOTORCYCLE

Priority: JP19930261653 19930922

Family:

Publication number	Publication date	Application number	Application date
DE69402649 D1	19970522	DE19946002649T	19940920
DE69402649 T2	19970814	DE19946002649T	19940920
EP0644106 A1	19950322	EP19940114809	19940920
EP0644106 B1	19970416	EP19940114809	19940920
JP3431237 B2	20030728	JP19930261653	19930922
JP7089472 A2	19950404	JP19930261653	19930922
US5560445 A	19961001	US19940310324	19940922

Probable Assignee: HONDA GIKEN KOGYO KK

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

Assignee(s): HONDA GIKEN KOGYO K K ; HONDA GIKEN KOGYO K K TOKIO TOKYO JP ; HONDA GIKEN KOGYO KABUSHIKI KAISHA

Inventor(s):(std): DAZAI MASAYUKI ; DAZAI MASAYUKI K K HONDA GIJUT ; FUNABASHI KATSUNORI ; FUNABASHI KATSUNORI K K HONDA ; SAITO NAOYUKI ; SAITO NAOYUKI K K HONDA GIJUTS ; SHIYOUJI YORIMASA ; SHOWJI YORIKATA ; SHOWJI YORIKATA K K HONDA GIJU ; SUMITANI SHINJI ; SUMITANI SHINJI K K HONDA GIJU ; SUMIYA SHINJI ; SUZUKI TETSUO ; SUZUKI TETSUO K K HONDA GIJUTS ; TASAI MASAYUKI

Inventor(s): DAZAI MASAYUKI HONDA GIJUTSU KENKYUSHO KK ; DAZAI MASAYUKI HONDA GIJUTSU KENKYUSHO SAITAMA JP KK ; DAZAI MASAYUKI K K HONDA GIJUTSU KENKYUSHO ; DAZAI MASAYUKI K K HONDA GIJUTSU KENKYUSHO SAITAMA JP ; FUNABASHI KATSUNORI HONDA GIJUTSU KENKYUSHO KK ; FUNABASHI KATSUNORI HONDA GIJUTSU KENKYUSHO SAITAMA JP KK ; FUNABASHI KATSUNORI K K HONDA GIJUTSU KENKYUSHO ; FUNABASHI KATSUNORI K K HONDA GIJUTSU KENKYUSHO SAITAMA JP ; SAITO NAOYUKI HONDA GIJUTSU KENKYUSHO SAITAMA JP KK ; SAITO NAOYUKI HONDA GIJUTSU KENKYUSHO KK ; SAITO NAOYUKI K K HONDA GIJUTSU KENKYUSHO SAITAMA JP ; SAITO NAOYUKI K K HONDA GIJUTSU KENKYUSHO ; SHOWJI YORIKATA HONDA GIJUTSU KENKYUSHO KK ; SHOWJI YORIKATA HONDA GIJUTSU KENKYUSHO SAITAMA JP KK ; SHOWJI YORIKATA K K HONDA GIJUTSU KENKYUSHO ; SHOWJI YORIKATA K K HONDA GIJUTSU KENKYUSHO SAITAMA JP ; SUMITANI SHINJI HONDA GIJUTSU KENKYUSHO KK ; SUMITANI SHINJI HONDA GIJUTSU KENKYUSHO SAITAMA JP KK ; SUMITANI SHINJI K K HONDA GIJUTSU KENKYUSHO ; SUMITANI SHINJI K K HONDA GIJUTSU KENKYUSHO SAITAMA JP ; SUZUKI TETSUO HONDA GIJUTSU KENKYUSHO KK ; SUZUKI TETSUO HONDA GIJUTSU KENKYUSHO SAITAMA JP KK ; SUZUKI TETSUO K K HONDA GIJUTSU KENKYUSHO ; SUZUKI TETSUO K K HONDA GIJUTSU KENKYUSHO SAITAMA JP

Designated states: DE FR IT

International class
(IPC 8-9): B62H5/00 B62H5/16 B62J11/00 B62K19/00 B62K19/40

International class
(IPC 1-7): B62H5/00 B62H5/16 B62J11/00 B62J7/02 B62K19/40

CPC: B62H2005/008 B62H5/00 B62J11/00 B62K19/40 Y10S224/935 Y10T70/5872

US class: 180/219 224/413 224/935 297/188.1 70/233

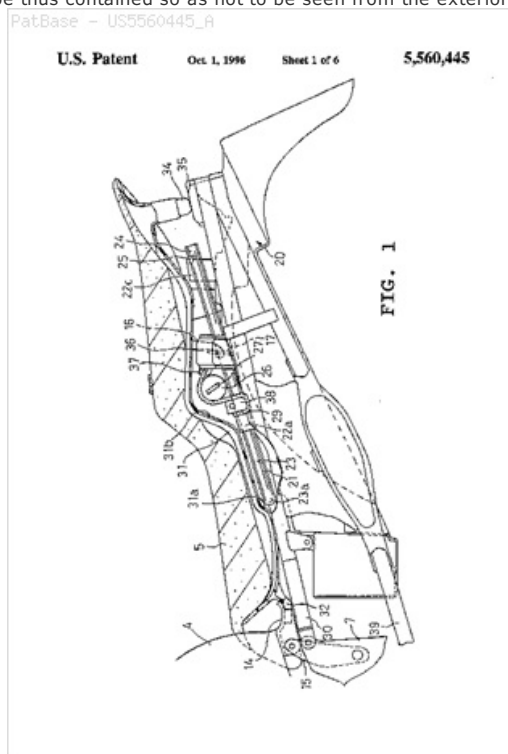
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Cited documents: JP56120464 A2, JPS58126270, JPS56120464, JP4279887 A2, US5251796 A, US5179848 A, US5107949 A, US4915188 A, US4436232 A, US4171731 A, US3779597 A, JP62043880 U, JP61048890 U, JP55002773 U, JP57153087 U, JP56120464, JP7017446, JP56008771, JP62198571, JP58126270, JP7052850, JP58126270 A2, EP0079798 A1, GB155626 A, EP0492742 A1,

Forward Citations: US2008115991 AA, US2007107968 AA, US2006048987 AA, US2005206204 AA, US8978808 BB, US2014291958 AA, US2011062690 AA, US7458436 BB, US7448664 BB, AU2005205848 BB, US7757799

Abstract:

A vehicle lock device having an approximately U-shaped fixing portion is contained so as not to be seen from the exterior. An approximately U-shaped fixing portion is disposed within a containing portion formed on a rear fender so as to be longer in the longitudinal direction. A lock portion longer in the vehicle width direction is overlapped on the fixing portion so as to cross the fixing portion. The fixing portion and the lock portion are fixed to a hook of a cross-plate and stays of seat rails by means of a fixture. A seat is then mounted on the seat rails. The vehicle device can be thus contained so as not to be seen from the exterior.



76) Family number: 3437584 (EP0492742 A1)

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Title: LOCK SYSTEM FOR PROTECTING A LIGHT VEHICLE AGAINST THEFT

Priority: NL19900002858 19901221

Family:

Publication number	Publication date	Application number	Application date
EP0492742 A1	19920701	EP19910203403	19911223
NL9002858 A	19920716	NL19900002858	19901221

Probable Assignee: GERRIT DOPPENBERG

Assignee(s): DOPPENBERG GERRIT ; GERRIT DOPPENBERG

Assignee(s): GERRIT DOPPENBERG TE PUTTEN GLD

Inventor(s): DOPPENBERG GERRIT

Designated states: BE DE DK ES FR GB IT NL

International class
(IPC 8-9): B62H5/00 B62J11/00

International class
(IPC 1-7): B62H5/00 B62J1/12 B62J1/28 B62J11/00 B62J7/04 E05B45/08

CPC: B62H2005/008 B62H5/00 B62J11/00

[Classification Explorer](#)

Cited documents: DE9001015 U1, DE9001015 U,

Forward Citations: JP2016064754 A2, CN103842241 A, EP2752359 A4, US5560445 A, FR2697223 A1, EP0644106 A1, EP0726195 A1,

DE102004035032 A1

FR2706411 A1, EP0953700 A1, EP0588285 A1, EP0628472 A1,

Abstract:

A lock comprises a substantially U-shaped shackle (1) and a closure unit (3) to be connected to the free ends (2) of the U-shaped shackle (1). Storage means for attaching the lock to a vehicle comprise guide means for at least the legs (16) of the U-shaped shackle (1) and a closure unit holder (6, 39, 40, 41) engaging the closure unit (3). The closure unit holder is so arranged that the closure unit (3) in the stored condition prevents the removal of at least the legs (16) of the U-shaped shackle (1) from the guide means. According to the invention, the closure unit holder (6, 39, 40, 41) is so constructed that it is uncoupled when the locking is released. This permits ready removal of the the lock and enables reliable attachment of the lock.

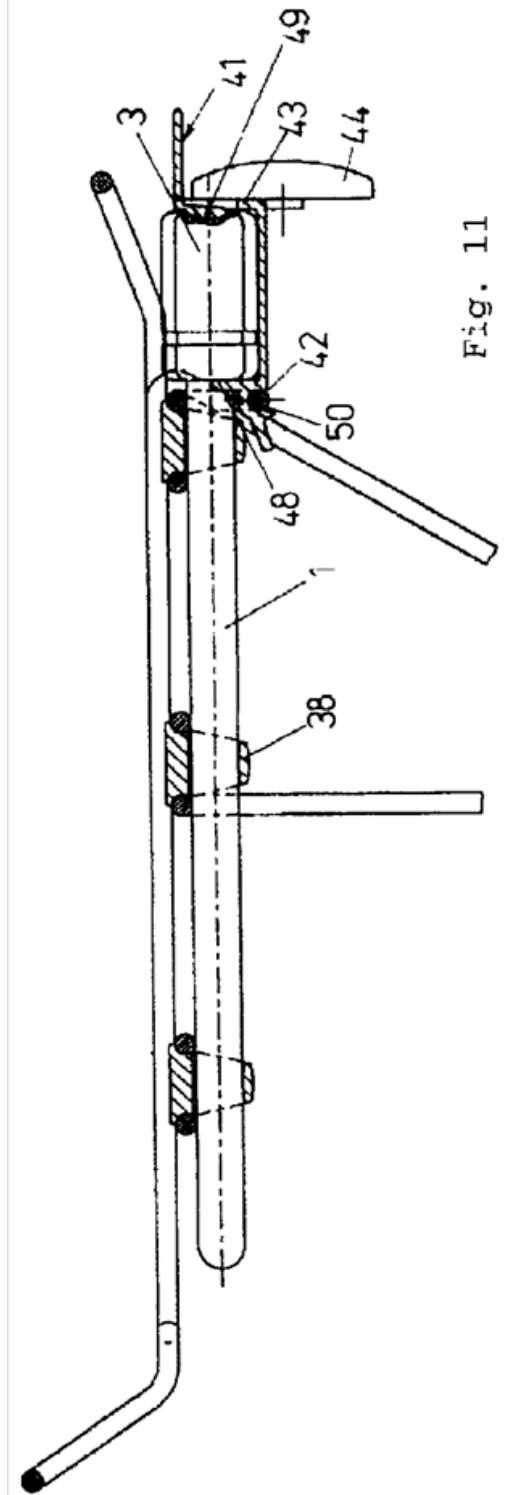


Fig. 11

77) Family number: 29506133 (DE4140380 A1)

© PatBase

Title: Small size safety bicycle - has short wheelbase and incorporates luggage rack and stand
Priority: DE19910000727U 19910123 DE19914140380 19911207 DE19924223519 19920717
Family:

Publication number	Publication date	Application number	Application date
DE9100727 U1	19910523	DE19910000727U	19910123
DE4140380 A1	19920730	DE19914140380	19911207
DE4223519 A1	19940120	DE19924223519	19920717

Probable Assignee: TUPATH WALTER DIPL ING**Assignee(s):(std):** TUPATH WALTER DIPL ING**Assignee(s):** TUPATH WALTER DIPL ING 7500 KARLSRUHE DE**Inventor(s):(std):** TUPATH WALTER DIPL ING

International class A41D3/00 A41D3/08 B62H1/00 B62H5/00 B62H5/14 B62J1/00 B62J11/00 B62J17/00 B62J7/00 B62J7/02
 (IPC 8-9): B62J99/00 B62K27/00 B62K27/12 B62K7/00

International class A41D13/00 B60B1/02 B60B33/00 B60C11/03 B60C29/06 B62H1/00 B62H5/00 B62J1/16 B62J11/00
 (IPC 1-7): B62J17/00 B62J6/00 B62J7/02 B62J9/00 B62K21/12 B62K7/00 B62M9/06 E05B67/00

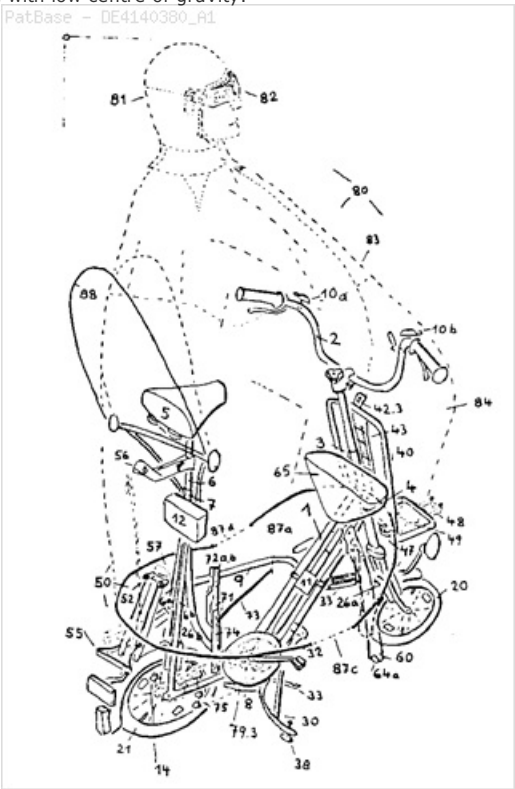
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[Classification Explorer](#)

Cited documents: DE9015936 U, DE9100727 U, DE9204494 U, DE9205436 U, DE9215002 U, DE9302931 U, US2321752 A, US5102021 A, GB2148213 A1, AT9290 B, DE8225247 U, DE9015936 U1, DE9100727 U1, DE9204494 U1, DE9205436 U1, DE9215002 U1, DE9302931 U1, DE3138789 A1, DE3526208 A1, DE4109594 A1, DE90644 A, DE3930143 C2, DE4708885, US4324119 A, US3286891 A, US2589497 A, GB204194 A, DE8913375 U1, DE8225274 U, DE8123974 U, DE635008 A, DE462929 A, DE415447 A, DE4006095 A1, DE3930143 A1, DE3906839 A1, DE3440405 A1, DE3115765 A1, DE2831289 A1, DE1936299 A1, DE182754 A, DE1708885 U, DE166248 A, DE1505241 A1, CH222675 A, CH177101 A, AT156487 B, DE3536208,

Forward Citations: DE4223519 A1, DE4342061 C1, DE19705554 C2, DE19705554 A1, DE19721011 A1, DE19512492 A1, CN100394021 C, NL2003399 A1,

Abstract:
The safety bicycle is multi purposes. It is of short construction, and has a low centre of gravity. It has a luggage rack (40) on front and rear wheels (20,21), and a rain protection device (80). It also has conventional accessories, e.g. mudguards, lamps, dynamo (14), bell (10a,b), and pump (11). In addition, the bicycle has a two-legged stand with ground adjustment (30); gear changer (70); a parking light system wh#ith accumulator (12); fixed or pivoted side supports (60); carrier handle (9); and a tool- and carrier bag (65). USE/ADVANTAGE - Multipurpose small safety bicycle with low centre of gravity.



78) Family number: 12754070 (DE19542680 A1)

© PatBase

Title: Bicycle storage system

Priority: DE19951042680 19951116

Family:

Publication number	Publication date	Application number	Application date
DE19542680 A1	19970522	DE19951042680	19951116

Probable Assignee: KEMPER KARL

Assignee(s):(std): KEMPER KARL

Assignee(s): KEMPER KARL 48161 MUENSTER DE

Inventor(s):(std): KEMPER KARL

Inventor(s): KEMPER KARL 48161 MUENSTER DE

International class (IPC 8-9): B62H3/00 E04H6/00 E04H6/14

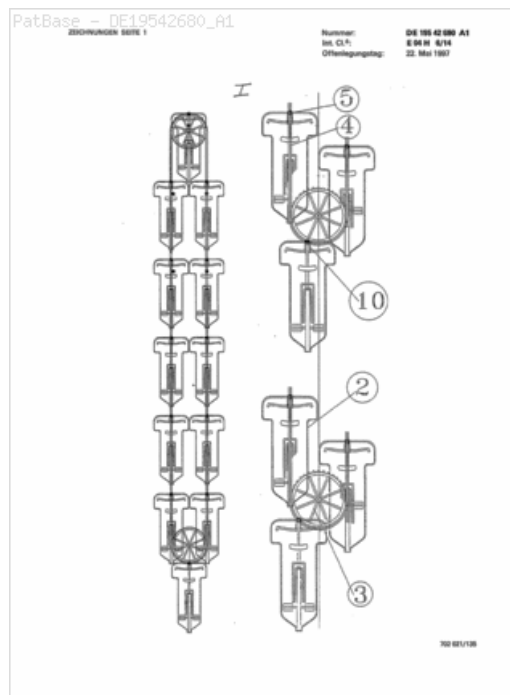
International class (IPC 1-7): B62H3/00 B65G1/127 E04H6/14

CPC: B62H3/00 E04H6/005 E04H6/14

[Classification Explorer](#)

Forward Citations: US9890549 BB, US2016312487 AA, DE19728010 A1, GB2481978 B2, GB2481978 A1, DE19728010 C2, DE19817254 A1,

Abstract:
The system has cells comprising support frames inside which the bicycles are secured. The frames are moved vertically on chain drives to stack the bicycles in a vertical column. The chain drives are on a continuous layout for access to any machine. The whole system is electronically controlled and safety brakes secure the system when not moving. Spring-loaded catches secure the machines.



79) Family number: 47904021 (WO10148506 A1)

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Title: BICYCLE DOCKING STATION

Priority: US20090219140P 20090622

Family:

Publication number	Publication date	Application number	Application date
WO10148506 A1	20101229	WO2010CA00977	20100622

Probable Assignee: MAGNA MARQUE INT INC

Assignee(s):(std): MAGNA MARQUE INT INC ; MAGNA MARQUE INTERNAT INC ; PALVOELGYI SANDOR ; VENIER FABIO

Assignee(s): MAGNA MARQUE INTERNATIONAL INC

Inventor(s):(std): PALVOELGYI SANDOR ; VENIER FABIO

Agent(s): BRANDT KERSTIN B ET AL

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

International class (IPC 8-9): B62H3/00 E05B71/00

CPC: B60L2200/12 B60L2270/36 B60L50/20 B60L53/126 B60L53/305 B60L53/31 B60L53/36 B60L53/65 B62H2003/005 B62H3/00 E05C3/24 Y02T10/70 Y02T10/7072 Y02T90/12 Y02T90/14 Y02T90/16 Y02T90/167 Y04S30/14

[Classification Explorer](#)

Cited documents: SE8206908 A, WO9809254 A2, US2010089846 AA, EP2130750 A2, DE3317885 A1, CN2828246 Y,

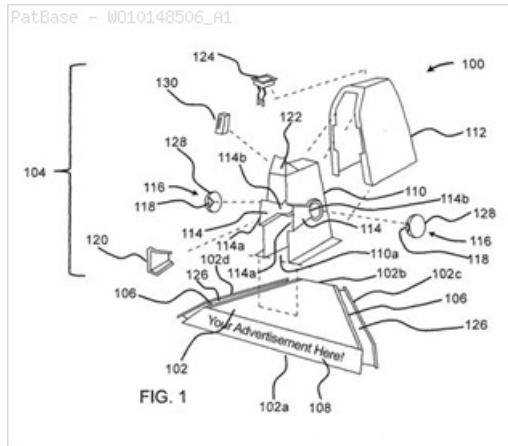
Forward Citations: CN106274545 B, CN106476647 B, EP3337716 A4, EP3141416 B1, CN106476647 A, CN106274545 A, EP3141416 A3, WO17027902 A1, EP3141416 A2,

DE102014116600 A1

WO14068125 A3, FR2997679 A1,

Abstract:

A bicycle docking system is provided, wherein a bicycle is provided with a latch engaging structure including a striker portion and a bicycle docking station is provided with a complementary latching assembly. The striker portion can be attached to an end portion of a hub of a front or rear axle of the bicycle and respective front or rear axle slots in the forks of the bicycle. The striker portion can be of a pin striker type, such as a mushroom head lug, or a loop striker type, such as a hook-shaped striker. The latch engaging structure is coupled to an anti-rotation lug, which is mounted to the hub of the front or rear axle. The bicycle docking station may serve as a charging station for e-bicycles, or for bicycles equipped with power modules or other electronic equipment.



80) Family number: 72873896 (US2020231053 AA)

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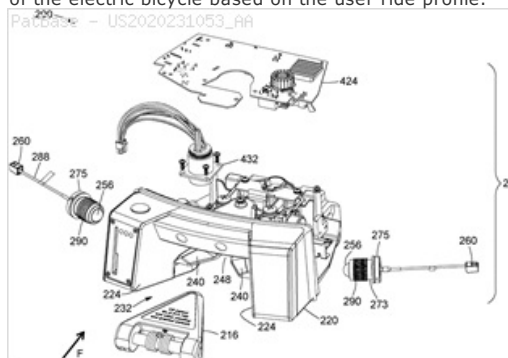
Title: SYSTEM AND METHOD FOR SECURING, RECHARGING AND OPERATING AN ELECTRIC BICYCLE
Priority: US20170532434P 20170714 WO2018CA50855 20180713 US20180631117 20180713
Family:

Publication number	Publication date	Application number	Application date
AR112505 AA	20191106	AR2018P101960	20180713
BR112020000776 A2	20200714	BR20201100776	20180713
CA3069577 AA	20200110	CA20183069577	20180713
EP3653028 A1	20200520	EP20180831174	20180713
US2020231053 AA	20200723	US20180631117	20180713
WO19010582 A1	20190117	WO2018CA50855	20180713

Probable Assignee: PBSC URBAN SOLUTIONS INC
Assignee(s):(std): PBSC URBAN SOLUTIONS INC
Assignee(s): BELANGER MARIO ; BOSSAN SEBASTIEN ; LEVESQUE DANIEL ; SAINT GERMAIN DAVID ; ST JACQUES ALAIN
Inventor(s):(std): ALAIN ST JACQUES ; BELANGER MARIO ; BLANGER MARIO ; BOSSAN SBASTIEN ; BOSSAN SEBASTIEN ; DANIEL LEVESQUE ; DAVID SAINT GERMAIN ; LEVESQUE DANIEL ; LVESQUE DANIEL ; MARIO BELANGER ; SAINT GERMAIN DAVID ; SEBASTIEN BOSSAN ; ST JACQUES ALAIN
Agent(s): MODIANO GABRIELLA DIANA; ROBIC; ROBIC LLP
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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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): B60L53/12 B60L53/31 B60L53/62 B60L53/66 B62H3/00 B62H3/04 B62H5/14 E05B71/00 H01R13/193 H01R13/24 H01R24/60 H02J50/10 H02J7/00 H05K7/14
CPC: B60L2200/12 B60L2270/36 B60L50/20 B60L53/12 B60L53/31 B60L53/62 B60L53/66 B62H2003/005 B62H3/04 B62H5/00 H01R13/2478 H01R13/631 H01R2201/26 H02J7/0027 H02J7/0042 H02J7/0045 Y02T10/70 Y02T10/7072 Y02T90/12 Y02T90/14
[Classification Explorer](#)
Cited documents: WO9308630 A1, EP2955092 A1, DE102013014029 B3
 US2016039496 AA, US2012086396 AA, US2016167539 AA, US2008297108 AA, KR101396490 B1, US2009266673 AA,

Abstract:

A securing system for securing an electric bicycle to a bicycle docking frame includes a female connecting assembly mountable on the bicycle docking frame and a male connecting assembly mountable on the electric bicycle and sized to be received within a tapered recess of the female connecting assembly. When so received, first current coupling elements of the female assembly electrically interface with second current coupling elements of the male assembly, which can allow current flow therebetween to charge a battery of the electric bicycle. A bicycle rack system includes electric bicycles, bicycle docks, a charging module operable to receive electrical power from an external power source and a charging controller for adjusting the level of electrical power provided to dock-side charging modules that charge battery modules of electric bicycles docked thereto. A method for managing charging is also provided. An electric bicycle is operable to receive a user ride profile from an external device and a motor control module thereof is operable to adjust operation of the motor of the electric bicycle based on the user ride profile.



81) Family number: 30550221 (WO05073062 A1)

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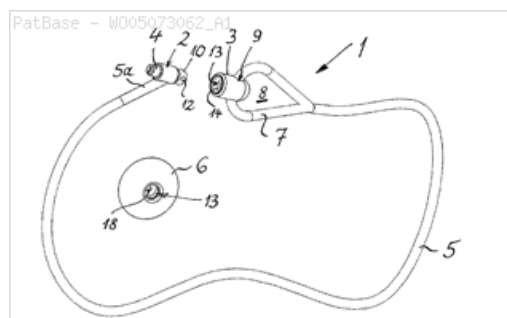
Title: LOCK FOR TWO-WHEELERS
Priority: DE200420001273U 20040129 WO2005EP00376 20050115 DE200511000088T 20050115
Family:

Publication number	Publication date	Application number	Application date
DE202004001273 U1	20040401	DE200420001273U	20040129
DE112005000088 A5	20080515	DE200511000088T	20050115
DE112005000088 B4	20081106	DE200511000088T	20050115
WO05073062 A1	20050811	WO2005EP00376	20050115

Probable Assignee: WELTE RAINER
Assignee(s):(std): WELTE RAINER
Inventor(s):(std): WELTE RAINER
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 KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL 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): E05B71/00
International class (IPC 1-7): B62H5/00 E05B71/00
CPC: B62H5/003 E05B67/003 E05B71/00 E05B73/0005
[Classification Explorer](#)
Cited documents: EP0774404 A1, EP0760333 A2, US4051703 A, US6430973 BA, FR2837781 A1, DE4400066 A1, DE19752349 A1,
Forward Citations: CN104405220 B, CN104405220 A, NL1035419 C2, FR3006289 A1, EP2810858 B1, EP2481323 A3, EP2810858 A1, EP2481323 A2, NL1029699 C2,

Abstract:

The invention relates to a lock (1) for two-wheelers, comprising an unlockable lock part (2) and a counterpart (3), which can be coupled thereto and which is held in a coupling position by the lock part (2) and/or the closure part (4) or locking mechanism thereof. The lock part (2) and the counterpart are joined by a joining element (5) that is displaceable and/or flexible at least in areas, particularly by a wire cable or a chain. A second or additional counterpart (6) is provided which fits with the lock part (2) or its closure part (4), locking mechanism or detent and which is provided in the form of a wall anchor and/or ground anchor. The lock (1) has, on the first counterpart (3) and/or on the joining element (5), in particular, in the vicinity of the first counterpart (3), a small loop (7), an eyelet, a ring or simple passage for passing through the part (5a) of the joining element (5) having the lock part (2), whereby forming a loop.

**82) Family number: 43637817** (EP2093718 A1)

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Title: PARKING MANAGEMENT SYSTEM AND METHOD
Priority: FR20080000895 20080219
Family:

Publication number	Publication date	Application number	Application date
EP2093718 A1	20090826	EP20090290123	20090219
EP2093718 B1	20181031	EP20090290123	20090219
FR2927714 A1	20090821	FR20080000895	20080219
FR2927714 B1	20150717	FR20080000895	20080219

Probable Assignee: TRACETEL SA
Assignee(s):(std): TRACETEL ; TRACETEL SA
Assignee(s): TRACETEL SOC ANONYME ; TRACETEL SOCIETE ANONYME
Inventor(s):(std): BENAMARA RAOUF ; EMERY JEAN
Inventor(s): JEAN EMERY ; RAOUF BENAMARA
Agent(s): CABINET YVES DEBAY ; DEBAY IP; DEBAY YVES
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 MT NL NO PL PT RO RS SE SI SK TR
International class (IPC 8-9): B62H5/00 E04H6/02 E04H6/42 G06K19/07 G07B15/00 G07B15/02 G07F17/10 G07F17/32 G07F7/00 G07F7/10 G08C17/02
CPC: B62H2003/005 B62H3/00 B62H3/04 G07B15/02 G07F17/0042 G07F17/10
[Classification Explorer](#)

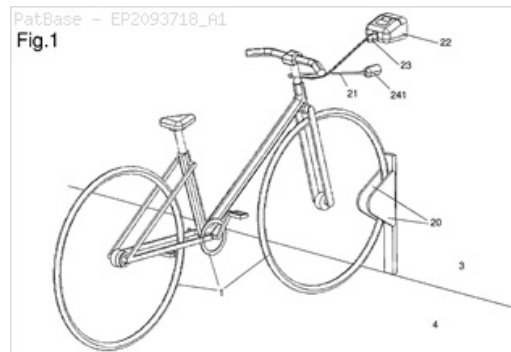
Cited documents: EP2090501 A1, WO09080566 A1, FR2916073 A1, KR20080013013 A, DE20210786 U1, EP1820721,

DE20210786 U, US6384717 BA, US5278538 A, US4920334 A, FR2824942 A1, EP1926060 A2, EP1820721 A1, EP1092615 A1, EP0875867 A1,

Forward Citations: EP3624080 A1, WO19106020 A1, BE1020747 AD, US8517162 BB, US8272491 BB, US8061499 BB, FR2951852 A1, FR2951851 A1, EP2315192 A1, EP2315191 A1,

Abstract:

The system has an arrangement device (22) provided with an actuator for locking and unlocking the arrangement device and a contact-less reader i.e. radiofrequency tag reader, communicating with a processing system controlling the actuator. The contact-less reader permits reading of an identification code type in a tag connected to an object i.e. cycle (1), another identification code type in a tag connected to a locking unit e.g. ringed cable (21), of a parking space or third identification code type of a user in a communicating portable object e.g. single card. An independent claim is also included for a method for arranging and withdrawing objects for a parking space location or arranged object location.



83) Family number: 29677160 (US6068120 A)

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Title:	SMALL VEHICLE SECURITY DEVICE																																																																																													
Priority:	US19950543633 19951016 US20000514174 20000228		WO1996US14388 19961016 US20030341513 20030113		US19980051472 19980908 US20030341502 20030113																																																																																									
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Publication number	Publication date	Application number	Application date																																																																																											
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Probable Assignee:	BIKELID LLC																																																																																													
Assignee(s):(std):	BICKERID SYSTEM CORP ; BIKELID SYST LLC ; BIKELID SYSTEMS LLC ; BIKELID SYSTEMS LLC BELLEVUE ; PLASTRON PRODUCTS LLC ; PLASTRON PRODUCTS LTD ; VOORHEES STEPHEN C																																																																																													
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Inventor(s):(std):	VOORHEES C ; VOORHEES S C ; VOORHEES STEPHEN C																																																																																													
Inventor(s):	S C VOORHEES ; STEPHEN C VOORHEES																																																																																													
Agent(s):	PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; ROBIC																																																																																													
Designated states:	AL AM AT AU AZ BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GB GE GR HU IE IL IS IT JP KE KG KP KR KZ LI LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG US UZ VN																																																																																													
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[Classification Explorer](#)

Cited documents: US4378883 A, US4792039 A, WO9714861 A1, US6341451 BA, US616445 A, US6023870 A, US6012253 A, US5720312 A, US5459954 A, US4986037 A, US4894961 A, US4609133 A, US4133148 A, US3826026 A, US3734272 A, US3600866 A, US3438158 A, US3258886 A, US3180510 A, US2742674 A, DE19833546 A1, US6012770 A, US5845788 A, US5702007 A, US5657566 A, USD295163 S1, US5507121 A, US4306390 A, FR643994 A, CH238101 A, US6151839 A, US5690234 A, US5265385 A, US4693289 A, US4907728 A, USD391219 S1, US4804238 A, US6505637 BA, US3996704 A, US3973812 A, US4598693

A, US3967425 A, US4084735 A, US4016686 A, US3949528 A, US4438606 A, US3907184 A, US3682523 A, US3886988 A, US2311514 A, US2005177416 AA, US5533616, US4792039, US4378883, US3967425, US3949528, US3945159 A, FR2449765 A1, DE9214083 U1, DE846458 A, DE830697 A, FR2499617 A1, DE9214083 U, US5533616 A, US3861092 A,

Forward Citations: ES2208037 AA,

DE102009032096 B4

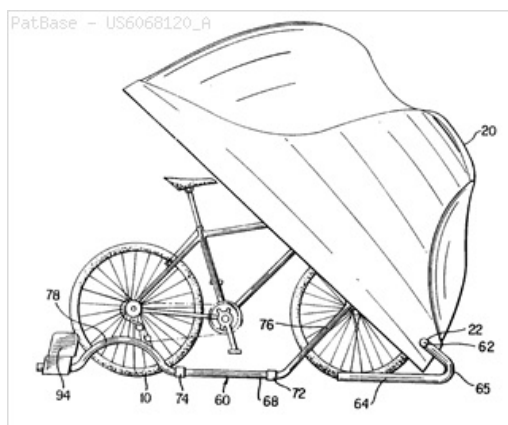
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DE102009032096 A1

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Abstract:

PCT No. PCT/US96/14388 Sec. 371 Date Sep. 8, 1998 Sec. 102(e) Date Sep. 8, 1998 PCT Filed Oct. 16, 1996 PCT Pub. No. WO97/14633 PCT Pub. Date Apr. 24, 1997A durable, versatile and economical device for securing and protecting bicycles, motorcycles, personal watercraft, snowmobiles, all-terrain vehicles and the like (10). The device comprises a shell or lid (20) attached to a base (60). Alternatively, the shell can be secured to the floor, ground or wall without a base structure. The shell can be lifted around a pivot point (22) to access the vehicle and lowered to secure it. When closed in the down position, the shell can be locked to the frame, completely securing and encapsulating the vehicle. The preferred plastic shell is an economical and durable cover, particularly when crime and vandalism is an issue.



84) Family number: 11175824 (EP0820920 A1)

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Title: LOCKING DEVICE
Priority: GB19960015675 19960725
Family:

Publication number	Publication date	Application number	Application date
EP0820920 A1	19980128	EP19970305604	19970725
GB9615675 A0	19960904	GB19960015675	19960725
GB2315474 A1	19980204	GB19970015802	19970725
GB2315474 B2	20000913	GB19970015802	19970725
GB9715802 A0	19971001	GB19970015802	19970725

Probable Assignee: GARDNER KEVIN C
Assignee(s):(std): GARDNER KEVIN C ; GARDNER KEVIN CLYDE
Assignee(s): KEVIN CLYDE GARDNER
Inventor(s):(std): GARDNER KEVIN CLYDE
Inventor(s): KEVIN CLYDE GARDNER
Designated states: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
International class (IPC 8-9): B62H3/00 B62H5/00
International class (IPC 1-7): B62H3/00 B62H5/00
CPC: B62H3/00 B62H5/003

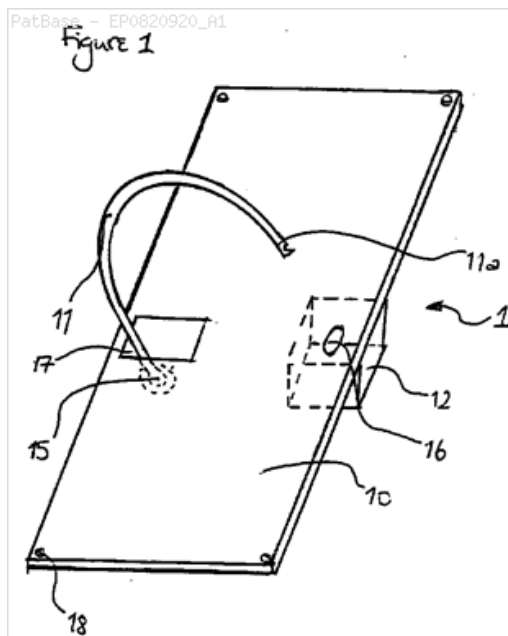
[Classification Explorer](#)

Cited documents: GB2293586 A1, GB2289452 A1, GB2273688 A1, GB2269348 A1, GB2265127 A1, GB2290766 A1, FR2503076 A1, DE4220942 A1, CH686454 A,

Forward Citations: GB2428224 A1, GB2428224 B2, WO10020805 A1, EP2794388 B1, WO15198188 A1, ES2503418 R1, WO13093774 A1,

Abstract:

A locking device (1) particularly for a parked two-wheel vehicle, is described. The device includes a plate (10) attachable to the ground in use, a locking element (11) attached to the plate (10) and a locking mechanism enclosed by the plate, whereby in use at least one wheel of a two-wheeled vehicle may be located on the plate and the locking element (11) passed through a part of the vehicle into engagement with the locking mechanism. Optionally, the device further includes a locker.



85) Family number: 44016323 (EP2123545 A1)

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Title: CLAMP TO STORE BICYCLES

Priority: NL20081035451 20080521 NL20092002913 20090520 NL20102005451 20101004

Family:

Publication number	Publication date	Application number	Application date
EP2123545 A1	20091125	EP20090100287	20090521
NL2002913 A1	20091124	NL20092002913	20090520
NL2002913 C	20101007	NL20092002913	20090520
NL2002913 C2	20101007	NL20092002913	20090520
NL2005451 A1	20101207	NL20102005451	20101004
NL2005451 C	20110405	NL20102005451	20101004
NL2005451 C2	20110405	NL20102005451	20101004

Probable Assignee: MINCK LODEWIJK PETRUS MARIA

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Agent(s): ASSENDELFT JACOBUS H W

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

International class (IPC 8-9): B62H3/00 B62H3/04 B62H5/00 E04H6/00

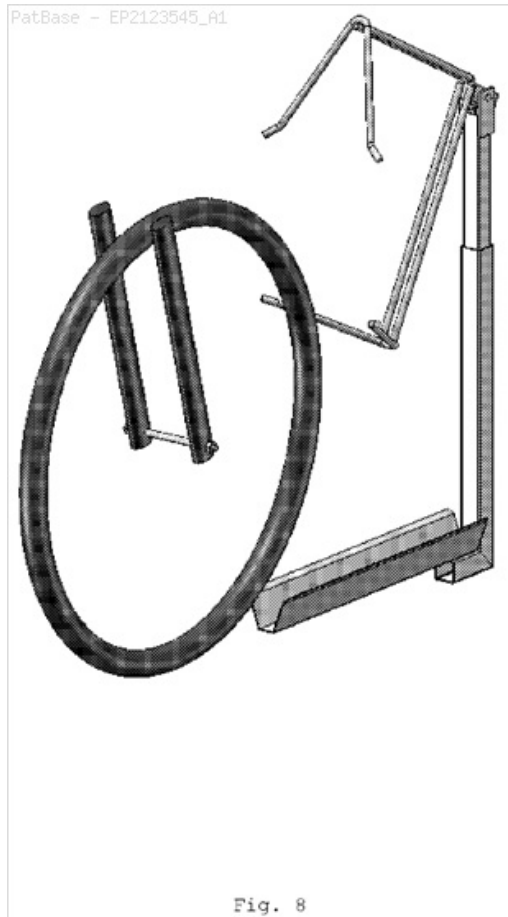
CPC: B62H3/04 B62H3/08 B62H3/00

[Classification Explorer](#)

Cited documents: EP0814014 A1, WO9638336 A1, EP1741623 A1,

Abstract:

The invention relates to a clamp to store a bike. The clamp has two bifurcated parts (3, 4) which simultaneously pivot around a horizontal axis (2) extending parallel to the axis (6) of the wheel (1) and is present at a level equal to the top of the wheel and in front of the wheel. The bifurcated parts (3, 4) limit sideways motion of the wheel. A spring (5) tries to move the clamp open (arrow B). The front wheel rests onto a sloping surface (9) such that it moves the clamp closed (arrow A).

**86) Family number: 17715910** (DE29506942 U1)

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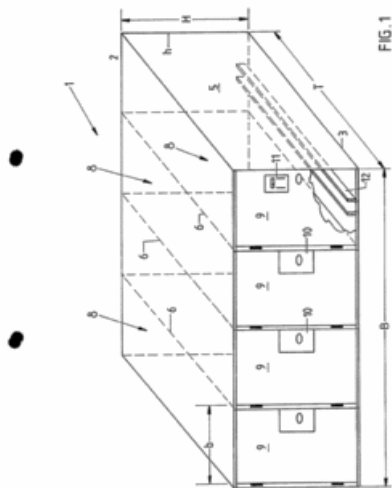
Title: Device for keeping two-wheelers, in particular bicycles**Priority:** DE19952003073U 19950224 DE19952006942U 19950425

Publication number	Publication date	Application number	Application date
DE29506942 U1	19950928	DE19952006942U	19950425

Probable Assignee: MAJER SIEGFRIED**Assignee(s):(std):** MAJER SIEGFRIED**Assignee(s):** MAJER SIEGFRIED 94032 PASSAU DE**International class**
(IPC 8-9): B62H3/00 E04H6/00**International class**
(IPC 1-7): E04H6/02 E05B71/00**CPC:** B62H3/00 B62H3/08 E04H6/005[Classification Explorer](#)**Forward Citations:** ES2627610 AA, DE29617315 U1, FR2777585 A1,**Abstract:**

Source: DE29506942 U1 **Machine translation:** (Claim 1) • • Schutzansprüche first Device for storage of two wheels, characterized by a housing (1), in which several of Zwischenwaende (6) separate compartments oder Compartments (8) are formed, which at a front side of the housing (1) each through a separate door (9) with a can be closed and in a Achsrichtungenkreht to the front of the housing (1) a depth (D) which is the bigger als die width (b), each compartment (8) in the horizontal direction parallel to the front of the housing (1) holds, and that on the ground (3) of each compartment (8) a is perpendicular to the axial direction toward the front of the housing (1) erstreckende Führungsschiene (1 2) provided.

15.07.95



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