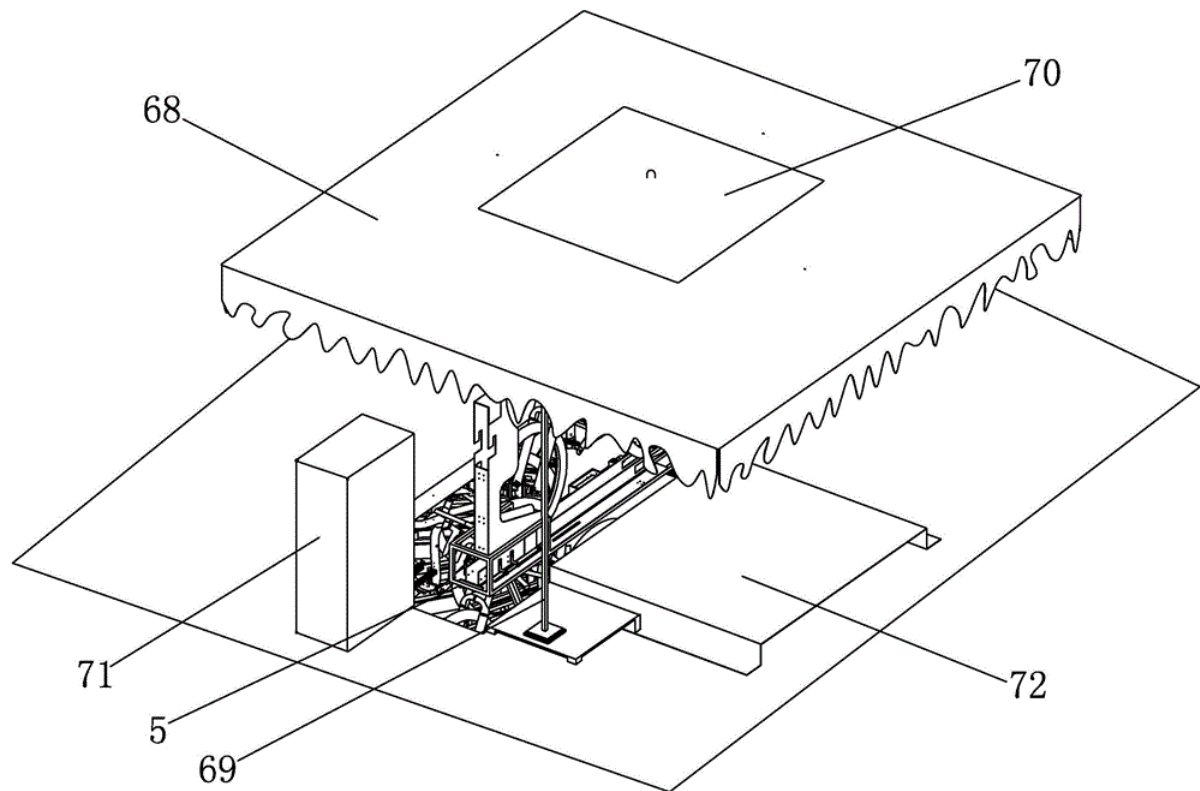


30 Documents

Publication numbers	Title	Current assignees
CN108343283 A	Stereo bicycle garage	TAIZHOU UNIVERSITY
DE4139932 A1	Parking device for motorcycle - consists of pivoted rail with support roller, with pivot point adjustment rail end	NAUROTH MICHAEL 5248 WISSEN, ...
CN209457465U U	Combined type multifunctional automatic three-dimensional parking garage	SHANGHAI UNIVERSITY OF ENGINEERING SCIENCE
CN110644829 A	District intelligence parking shed	SHENZHEN ZHONGRONGYU CONSTRUCTION ENGINEERING
CN206071145U U	Underground parking 's electric motor car is with carrying frame	TIANJIN YUANZHUO TECHNOLOGY DEVELOPMENT
WO200549417 A1	Front wheel support, front wheel support capable of monitoring entrance/exit, and bicycle parking systyem equipped with front wheel support	M C F
CN206049863U U	Underground parking 's electric motor car hooks up mechanism with carrying frame	TIANJIN YUANZHUO TECHNOLOGY DEVELOPMENT
JP2005280609 A	Bicycle parking device and garage for bicycle parking	MANPUKU SHOJI
WO200915523 A1	Overhead parking building for bicycles	SONG YOUZHOU
CN108756350 A	Motorcycle and electric bicycle auxiliary parking mechanical equipment	ANHUI JIANZHU UNIVERSITY
WO2019146134 A1	Parking system	GIKEN
JP2009097166 A	Two-wheel vehicle container	FOUNDATION CORPORATE PARKING LOT IMPROVEMENT PROMOTION ORGANIZATION 7 KANDA HIGASHI MATSUSHITA CHO CHIYODA KU TOKYO 1 7
JP2009228239 A	Mixed type parking apparatus	IHI TRANSPORT MACHINERY, ...
WO2010150834 A1	Mechanical three-dimensional bicycle parking facility	NOMURA, ...
JP2019035260 A	Two-wheeler parking system	IHI TRANSPORT MACHINERY
DE29706198 U1	Platform for parking of motorcycles, in particular in garages	VERSE ULF
DE9310401 U1	Bicycle stand device in particular for short garage pivot construction	MAYER JOHANN
CN206384072U U	Bicycle automatic stopping device	HANGZHOU HAOCHE

Publication numbers	Title	Current assignees
		TECHNOLOGY
CN108189933 A	Dislocation parking system for electric bicycle	HANGZHOU SHENDAXIA DECORATION DESIGN ENGINEERING
DE4235158 A1	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.	BITTLINSKY BERNHARD
JP2010274680 A	Sliding storage device	SHIN MEIWA INDUSTRIES, ...
CN108454736 A	Bicycle parking device	SHIJIAZHUANG SANMIAO SOFTWARE TECHNOLOGY
CN208069876U U	Parking facility for bicycles	SHIJIAZHUANG SANMIAO SOFTWARE TECHNOLOGY
JP2003081148 A	Garage for two-wheeled vehicle	MCF
JP04086860U U	Suspension assembly of the above formula parking apparatus	
JP2003041795 A	Multistory bicycle parking space	TETSUDO
JP11152927 A	Bicycle multistory parking facility	YOKOHAMA TOKUSHU SENPAKU
JP2000234451 A	Method and system for multilevel bicycle parking	FREE
JP3061454U U	Multi-dimensional parking Formula device	FREE
CN209479468U U	Double-layer parking device for electric vehicle	XIJING UNIVERSITY

Images**Publication numbers**

CN108343283

CN108343283

Publication kind codes

B

A

Publication dates

2019-10-01

2018-07-31

Earliest priority date

2017-11-27

Title

(CN108343283)

Stereo bicycle **garage****Abstract**

(CN108343283)

The invention provides a stereo bicycle **garage**, and belongs to the technical field of **parking** equipment. The problem that the occupied area of an existing public bicycle **parking** lot is large is solved. The stereo bicycle **garage** comprises a ground pit, and the top portion of the ground pit is covered with a pit cover. The stereo bicycle **garage** is characterized in that a turn table which can be rotated horizontally is arranged on the bottom surface of the ground pit, and a plurality of base plates are fixed on the turn table. The **garage** comprises a bicycle supporting device, and the bicycle supporting device comprises brackets. Guiding grooves for placing bicycle wheels are fixedly formed on the supporting plates in the length direction. Front wheel guard plates are vertically fixed on one ends of the supporting plates upwards. Clamping grooves are formed in the front wheel guard plates. Positioning mechanisms for positioning rear wheels of the bicycles on the guiding grooves are arranged on the supporting plates. The base plates are provided with clamping mechanisms for clamping or loosening the brackets. The **garage** further comprises a **lifting** mechanism for carrying the brackets from the clamping mechanisms to the outside of the pit cover back and forth. The stereo bicycle **garage** has the advantages of saving urban **parking** spaces.

Inventors

LI JUN

QIN LIMING

FANG CHUN

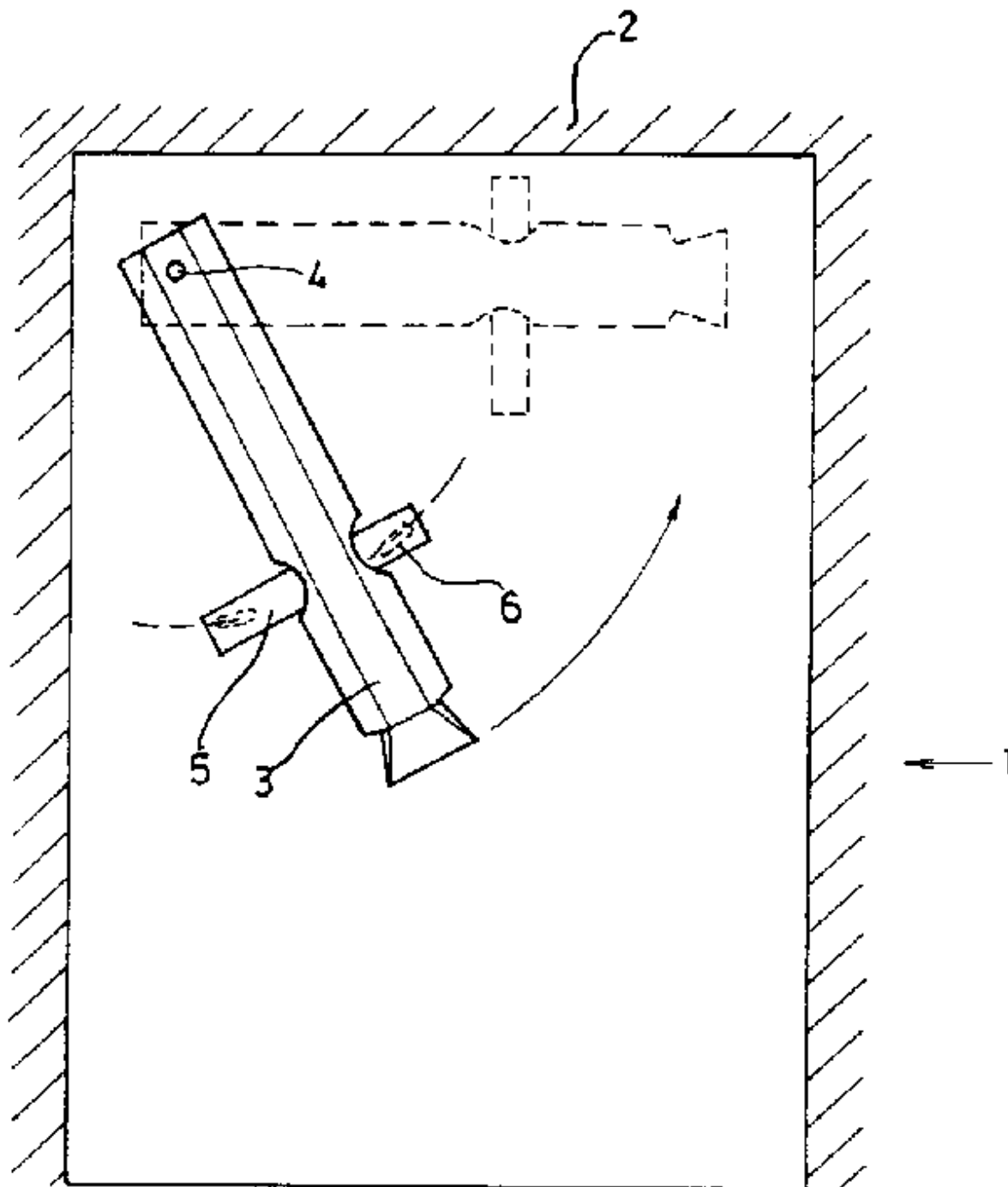
LI RUI

THE INVENTOR HAS WAIVED THE RIGHT TO BE MENTIONED

Latest standardized assignees - inventors removed

TAIZHOU UNIVERSITY

Family 2/30 - FAMPAT - ©Questel

Images**FIG. 1**

Publication numbers

DE4139932

DE9100018

Publication kind codes

A1

U1

Publication dates

1992-07-09

1991-03-21

Earliest priority date

1991-01-03

Title

(DE4139932)

Parking device for **motorcycle** - consists of pivoted rail with support roller, with pivot point adjustment rail end

Abstract

(DE4139932)

The device is for the **parking** of motorcycles by the rear wall of a **garage**. It consists of a rail (3), on which the **motorcycle** is placed. The rail is supported moveable about a first pivot point (4), and has a second support in the form of a support roller (6), fastened to it. The pivot point is located near the end of the rail, and the axis of the roller cuts across the pivot axis of the rail.

Inventors

NAUROTH MICHAEL

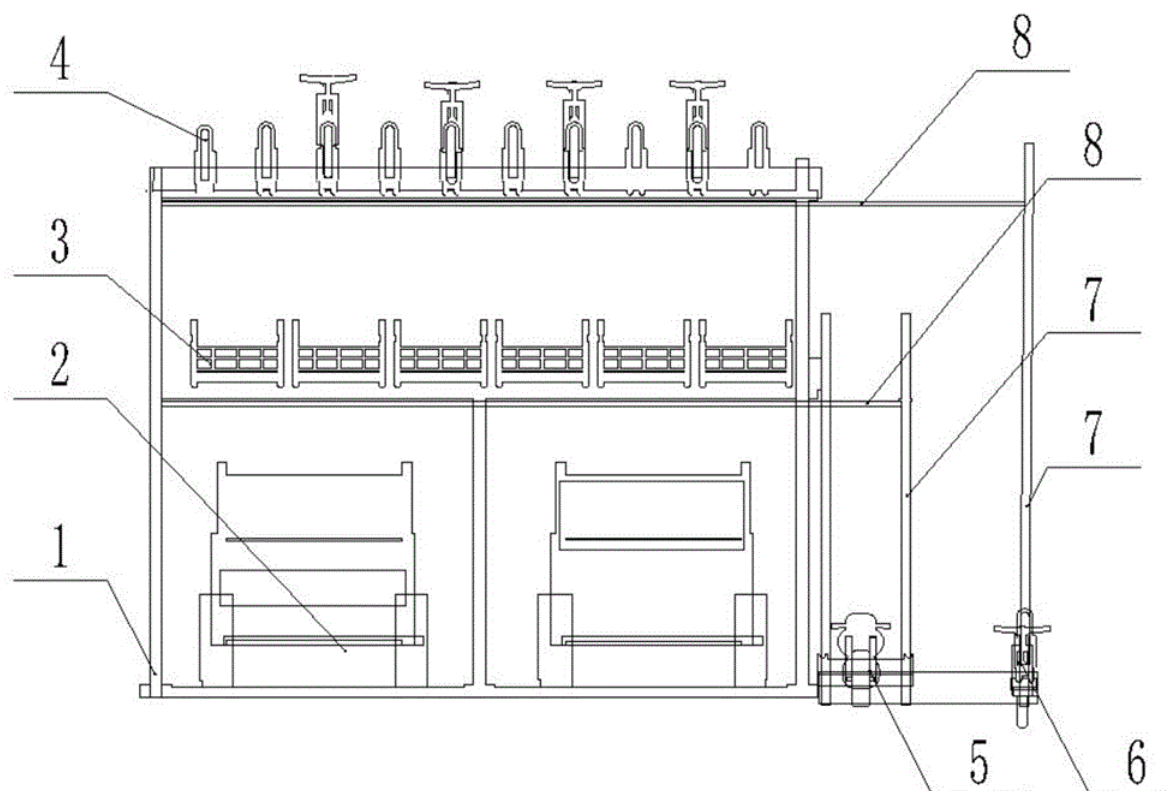
GERHARTZ FRANK

Latest standardized assignees - inventors removed

NAUROTH MICHAEL 5248 WISSEN

GERHARTZ FRANK 5249 HAMM

Family 3/30 - FAMPAT - ©Questel

Images**Publication numbers**

CN209457465

Publication kind codes

U

Publication dates

2019-10-01

Earliest priority date

2018-12-07

Title

(CN209457465U)

Combined type multifunctional automatic three-dimensional parking garage

Abstract

(CN209457465)

The utility model discloses a combined type multifunctional automatic three-dimensional parking garage which is used for solving the automobile parking problem of shared bicycles, battery cars and thelike, improving the parking space utilization efficiency and reducing the parking problem. The adopted technical scheme is as follows: the garage body is of a three-layer parking structure. Two lifting mechanisms are arranged on the side edge of the garage body; aisles are arranged on the inner sides of the electric vehicle parking frame and the bicycle parking frame; guide rails are arranged on the aisle, the electric vehicle parking frame and the bicycle parking frame; the electric vehicle parking tray and the bicycle parking tray are each provided with a power mechanism. The power mechanism comprises a first power wheel used for climbing, a second power wheel used for translation and a third power wheel used for steering, the first power wheel, the second power wheel and the third power wheel are driven by respective motors, the motors are electrically connected with the control console, and the working conditions of the motors are controlled through the control console.

Inventors

XU JIPING

LUO JIAO

PENG GUANGGUI

GUO WANTING

SONG ZIHAO

WANG ZHEN

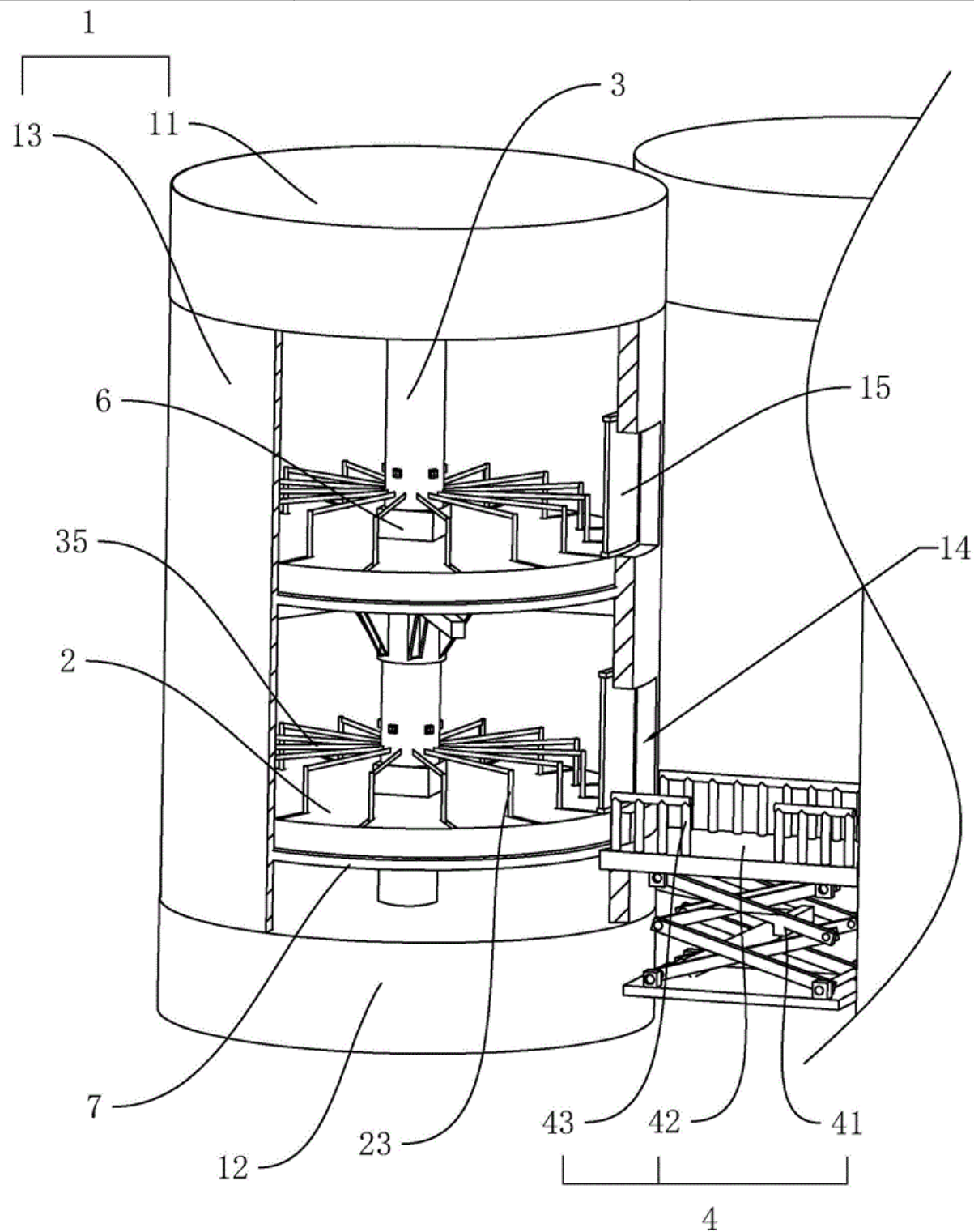
LI KAIFENG

Latest standardized assignees - inventors removed

SHANGHAI UNIVERSITY OF ENGINEERING SCIENCE

Family 4/30 - FAMPAT - ©Questel

Images

**Publication numbers**

CN110644829

Publication kind codes

A

Publication dates

2020-01-03

Earliest priority date

2019-10-19

Title

(CN110644829)

District intelligence parking shed

Abstract

(CN110644829)

The invention relates to a residential area intelligent **parking** shed, which belongs to the technical field of **parking** equipment and is technically characterized in that: the **garage** comprises a plurality of **garage** bodies which are independently arranged and a plurality of **parking** turntables which are rotatably arranged in the **garage** bodies, wherein a rotating shaft is vertically arranged at the center of the **garage** body, the rotating shaft penetrates through the centers of the **parking** turntables and is fixedly connected with the **parking** turntables, two ends of the rotating shaft are rotatably connected with the **garage** bodies, and the **parking** turntables are arranged at intervals along the axial direction of the rotating shaft; the outer lane that the pivot was kept away from to the revolving stage of parking is equipped with many isolation piles along its equal interval of circumference, and the pivot corresponds isolation pile and is equipped with many median, and the one end and the isolation pile of median are connected. According to the **garage**, the **parking** turntable is arranged in the **garage** body, the plurality of isolation piles are arranged on the **parking** turntable, and the **parking** turntable is divided by utilizing the matching between the isolation piles and the isolation belts, so that a user can park vehicles in order, and the **parking** turntable is matched with the rotating shaft, so that the user can park or take the vehicles conveniently.

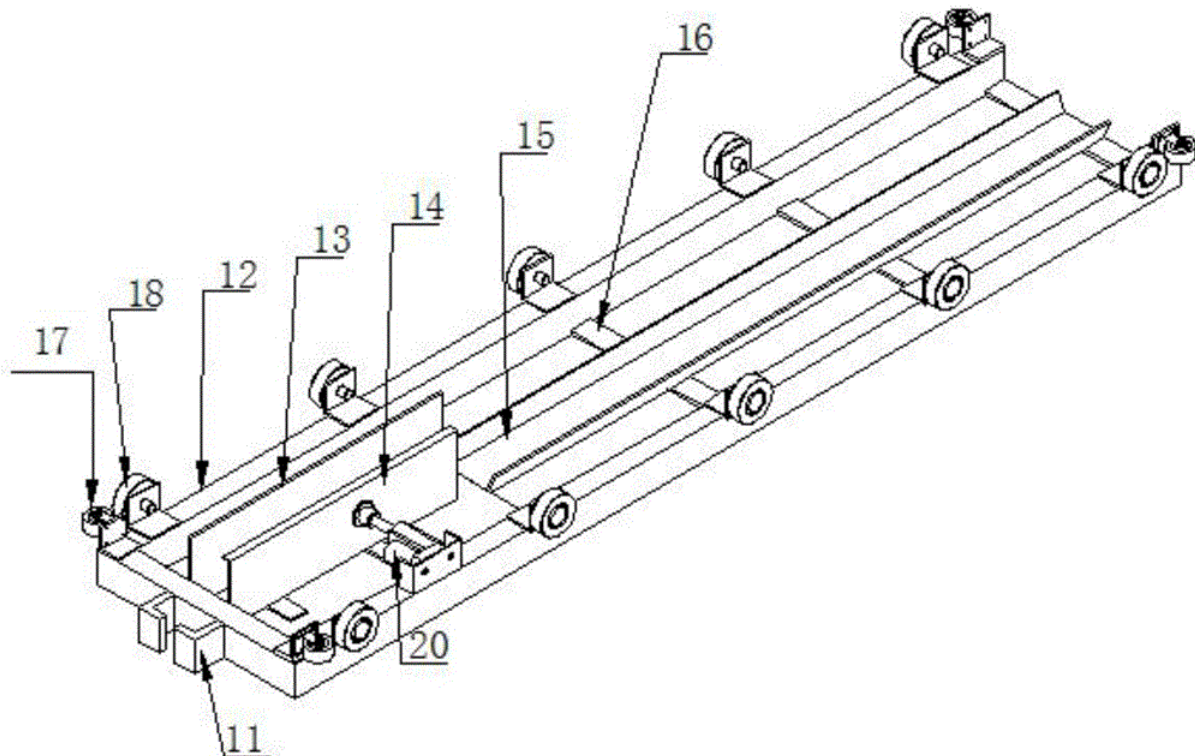
Inventors

ZHUANG CHUDONG

Latest standardized assignees - inventors removed

SHENZHEN ZHONGRONGYU CONSTRUCTION ENGINEERING

Family 5/30 - FAMPAT - ©Questel

Images**Publication numbers**

CN206071145

Publication kind codes

U

Publication dates

2017-04-05

Earliest priority date

2016-08-30

Title

(CN206071145U)

Underground **parking**'s electric motor car is with carrying frame**Abstract**

(CN206071145)

The utility model relates to an underground **parking**'s electric motor car is with carrying frame, its characterized in that: it includes the body frame body, vehicle constant head tank and wheel hold -down mechanism, and the body frame body is adorned admittedly by the long supporting frame of two parallels many short support frames between and is formed, all installs the guide pulley in two long supporting frame 's the outside, and the middle part of the body frame body is adorned along its length direction admittedly wheel hold -down mechanism is installed at the tip that hooks up of the body frame body to the vehicle constant head tank. The utility model discloses structural design scientific and reasonable bears the device as the vehicle in **garage**, is fit for the vehicle storage of great weight, and it is big to have a load capacity, stable in structure, and safe and reliable's advantage, and be applicable to the electric motor car of different wheel width, clamping position is effectual.

Inventors

YUAN MINGWEI

XIE HAIPING

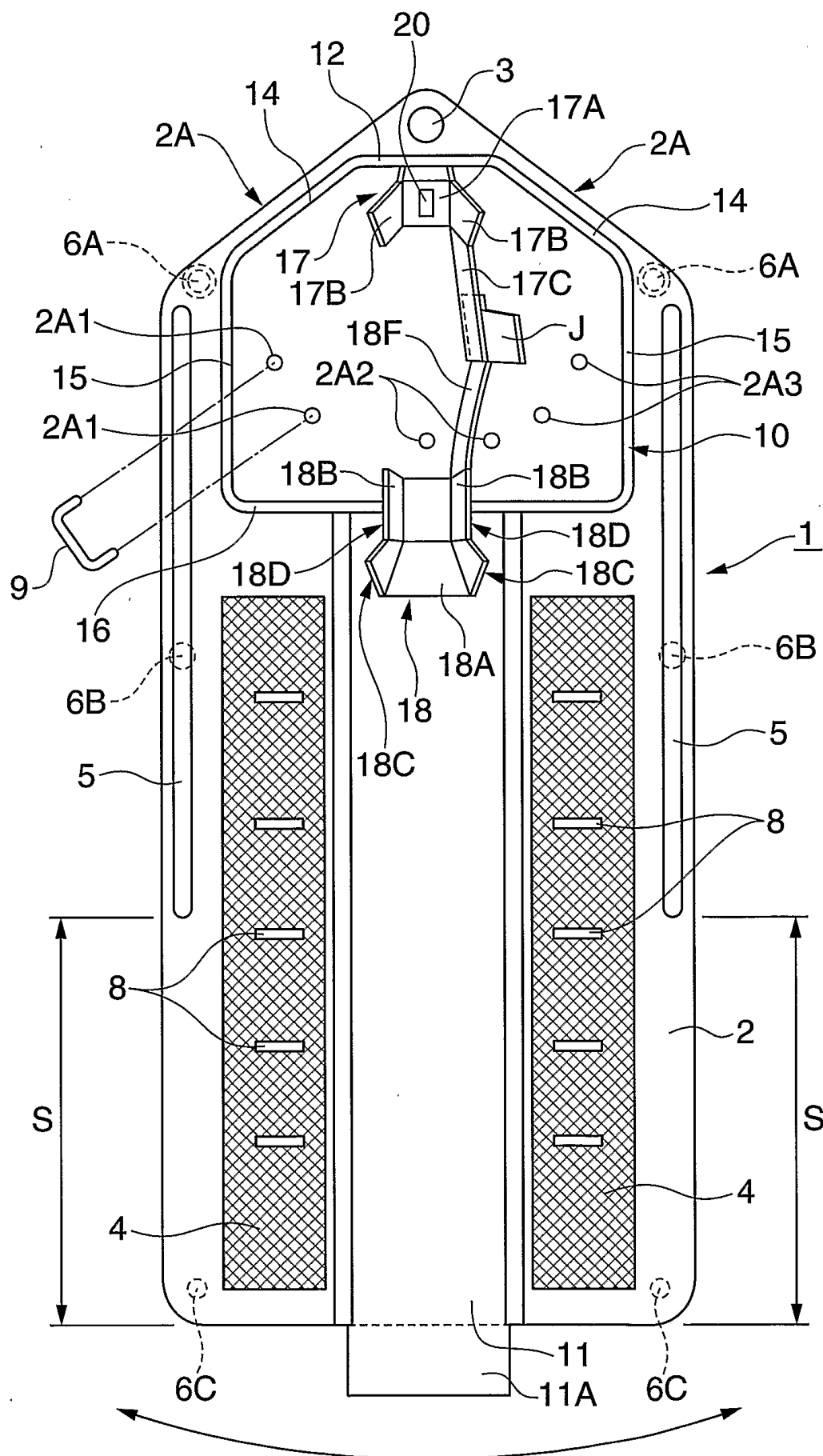
DING HONGYI

Latest standardized assignees - inventors removed

TIANJIN YUANZHUO TECHNOLOGY DEVELOPMENT

Family 6/30 - FAMPAT - ©Questel

Images



Publication numbers

JP4004057

AU2003284418

JPWO2005049417

WO2005/049417

Publication kind codes

B2

A1

A1

A1

Publication dates

2007-08-31

2005-06-08

2005-06-02

2005-06-02

Earliest priority date

2003-11-19

Title

(WO200549417)

Front wheel support, front wheel support capable of monitoring entrance/exit, and bicycle parking systyem equipped with front wheel support

Abstract

(WO2005/049417)

A front wheel support and a bicycle parking system equipped with the front wheel support effective for preventing theft by confirming entrance/exit of a bicycle readily by means of an attached switch with no power supply and capable of parking a bicycle even in a limited site without occupying a large area while facilitating entrance/exit thereof, wherein the front wheel support is constructed by securing a front wheel front part holder to the upper part on the front side of a self-standing frame member and bearing a front wheel lower rear part holder rotatably at the lower part on the rear side of the frame member. The front wheel front part holder and/or the front wheel lower rear part holder is fixed with an antitheft unit for detecting entrance/exit of a bicycle without power supply so that entrance/exit of a bicycle can be monitored. In the bicycle parking system, a base member large enough to mount a bicycle is born rotatably through an anchor shaft part on the ground surface or the floor surface of a bicycle parking lot and the front wheel support is fixed to the upper surface of the base member.

Inventors

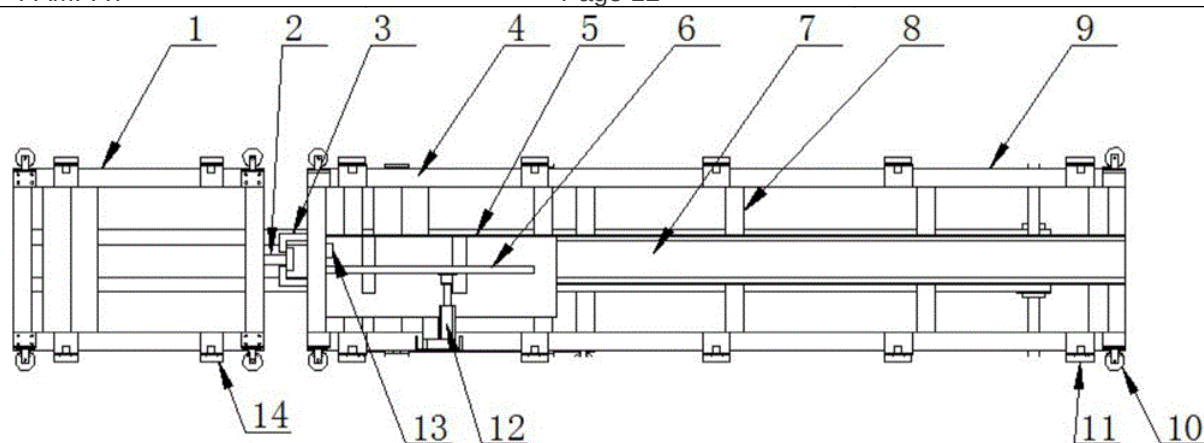
MATSUMURA TAKASHI

Latest standardized assignees - inventors removed

M C F

Family 7/30 - FAMPAT - ©Questel

Images

**Publication numbers**

CN206049863

Publication kind codes

U

Publication dates

2017-03-29

Earliest priority date

2016-08-30

Title

(CN206049863U)

Underground parking's electric motor car hooks up mechanism with carrying frame

Abstract

(CN206049863)

The utility model relates to an underground parking's electric motor car hooks up mechanism with carrying frame, its characterized in that: the package carries a frame, trailer frame and hangs excavator and construct, carries a frame and includes the body frame body, vehicle constant head tank and wheel hold -down mechanism, and the body frame body is adorned admittedly by the many short support frames of strut between and of drawing money on credit of two parallels and is formed, all installs the guide pulley in the outside of two length of branch support frames, and the middle part of the body frame body is followed its length direction and is adorned admittedly the vehicle constant head tank is installed at the tip that hooks up of the body frame body wheel hold -down mechanism, the outer fixed mounting of tip that hooks up at the body frame body that carries the frame has symmetrical L shape to hook up the seat, and the hook up end outside fixed mounting corresponding at the trailer frame has T shape couple, but this T shape couple hook income symmetry L shape hooks up the seat. Can realize the trailer frame and carry the reliable and stable of frame hooking up to the realization stimulates the reliable and stable of work and propelling movement action to the support of carrying the frame.

Inventors

YUAN MINGWEI

XIE HAIPING

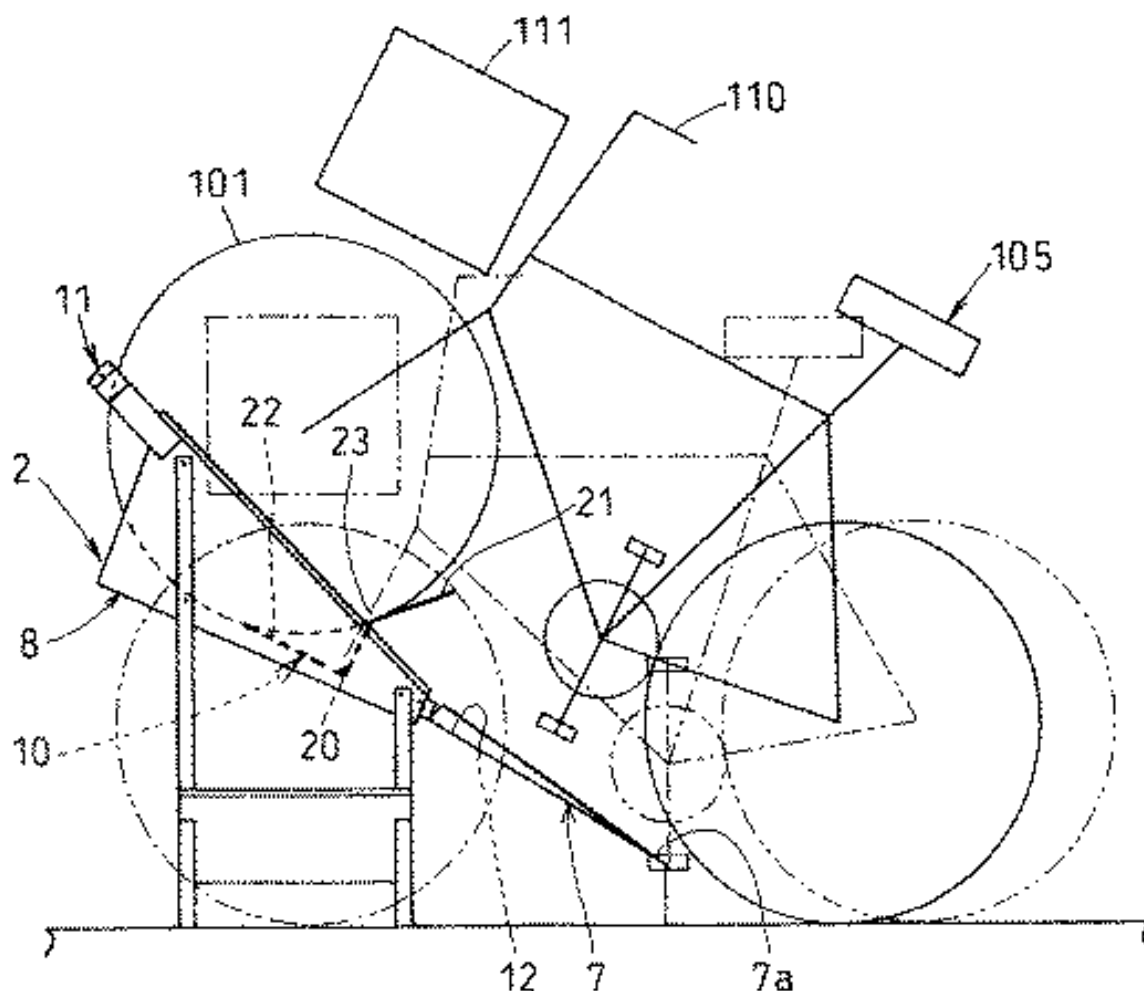
DING HONGYI

Latest standardized assignees - inventors removed

TIANJIN YUANZHUO TECHNOLOGY DEVELOPMENT

Family 8/30 - FAMPAT - ©Questel

Images

**Publication numbers**

JP2005280609

Publication kind codes

A

Publication dates

2005-10-13

Earliest priority date

2004-03-30

Title

(JP2005280609)

Bicycle **parking** device and **garage** for bicycle **parking****Abstract**

(JP2005280609)

PROBLEM TO BE SOLVED: To provide a bicycle **parking** device easily **parking** a bicycle.

SOLUTION: This bicycle **parking** device consists of: an inclined rail 7 provided with a rail surface 12 for supporting a front wheel 101 of the bicycle 105 so as to be extended obliquely upward to the front; a front wheel surrounding portion 8 which is arranged in front of the inclined rail 7 in its extended shape and surrounds the front wheel 101 from the under surface and the both left and right side surfaces; and a gangway footplate 10 disposed between the inclined rail 7 and the front wheel surrounding portion 8. The gangway footplate 10 is provided with free back-and-forth oscillation around an oscillation fulcrum crossing in the front/rear direction of the inclined rail 7. When the front wheel 101 passes through the oscillation fulcrum, the gangway footplate 10 is oscillated forward, so that the front wheel 101 is push out to the front wheel surrounding portion 8.

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Inventors

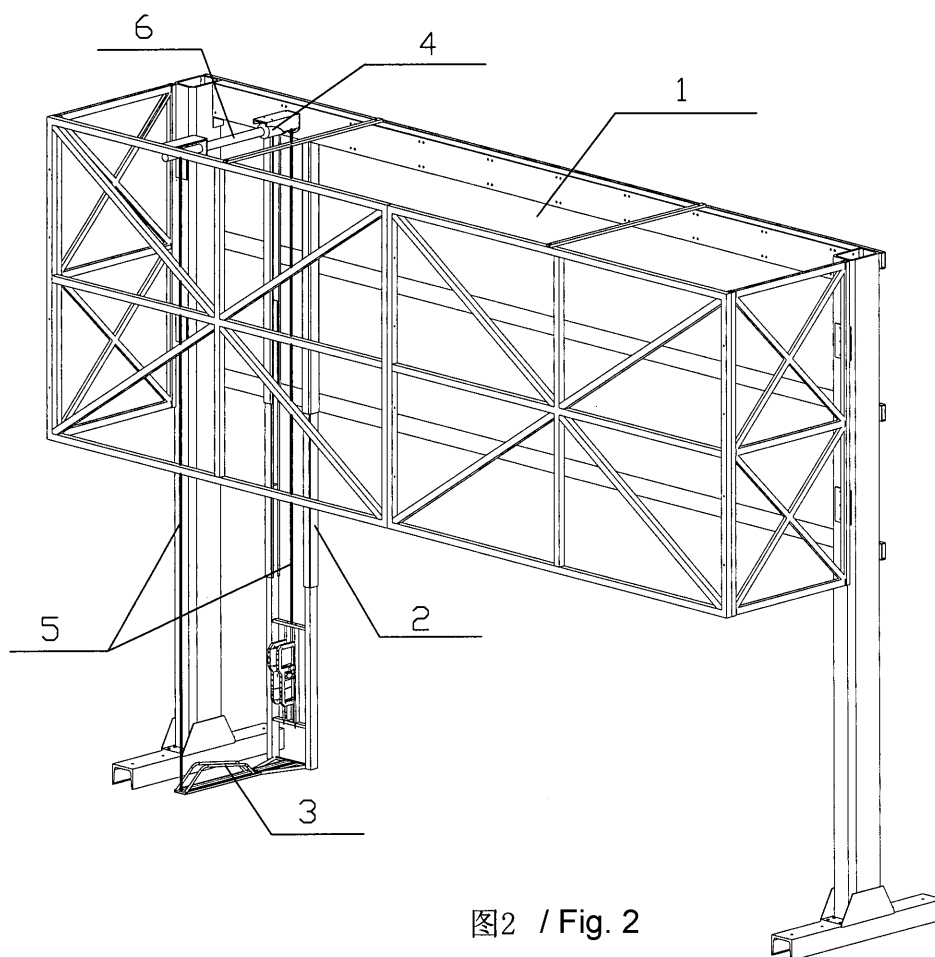
MANPUKU TAKAYUKI

Latest standardized assignees - inventors removed

MANPUKU SHOJI

Family 9/30 - FAMPAT - ©Questel

Images

**Publication numbers**

WO2009/015523

CN201102581

Publication kind codes

A1

Y

Publication dates

2009-02-05

2008-08-20

Earliest priority date

2007-07-27

Title

(WO200915523)

Overhead **parking** building for bicycles**Abstract**

(WO2009/015523)

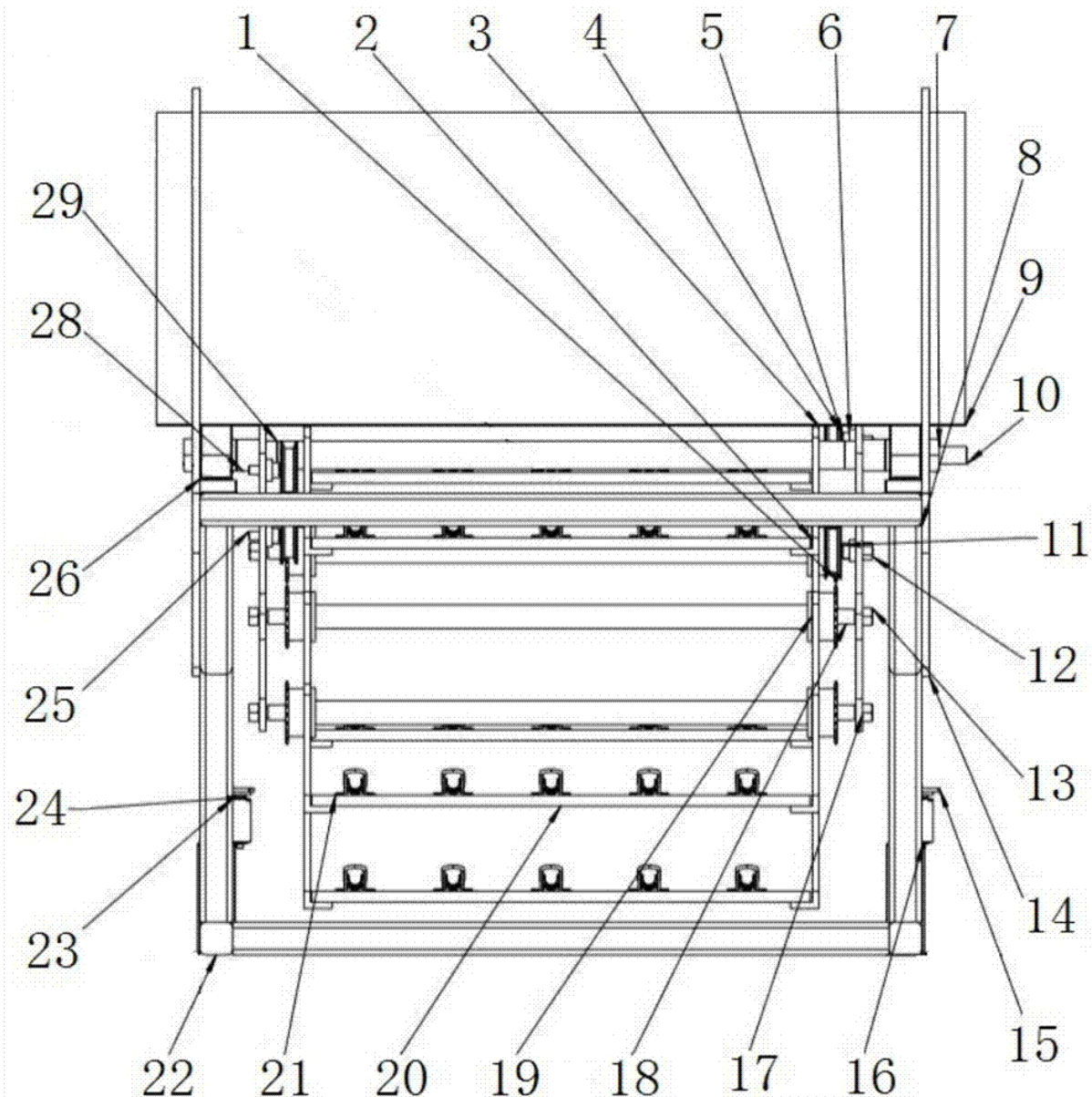
An overhead **parking** building for bicycles comprises an overhead **garage** (1), a vertical rail (2), a bicycle bracket (3), and a **lift** device. The vertical rail (2) is provided between the overhead **garage** (1) and the ground. The bicycle bracket (3) is

provided on the vertical rail (2). The bicycle bracket (3) can move back and forth between the overhead **garage** (1) and the ground when driven by the **lift** device or be locked in the overhead **garage** (1). The overhead **parking** building for bicycles according to the invention is orderly and can park bicycle, electric bicycle and motor scooter.

Inventors

SONG YOUZHOU

Family 10/30 - FAMPAT - ©Questel

Images**Publication numbers**

CN108756350

Publication kind codes

A

Publication dates

2018-11-06

Earliest priority date

2018-07-04

Title

(CN108756350)

Motorcycle and electric bicycle auxiliary **parking** mechanical equipment**Abstract**

(CN108756350)

The invention discloses **motorcycle** and electric bicycle auxiliary **parking** mechanical equipment. The **motorcycle** and electric bicycle auxiliary **parking** mechanical equipment comprises a supporting frame, two polygonal turning wheels which are arranged parallelly and coaxially, a plurality of **parking** platforms, a plurality of auxiliary **parking** devices and a plurality of tensioning mechanisms. Each **parking** platform comprises a flat plate, two vertical frames and a secondary shaft parallel to the central axes of the two polygonal turning wheels. Each **parking** platform corresponds to the two or more auxiliary **parking** devices. Each auxiliary **parking** device comprises a U-shaped clamping ring, limiting frames and U-shaped limiting sleeves. Each tensioning mechanism comprises a tensioning wheel, two balance wheels and a transmission ring. According to the **motorcycle** and electric bicycle auxiliary **parking** mechanical equipment, by arranging the two polygonal turning wheels and the multiple **parking** platforms, the polygonal turning wheels drive the **parking** platforms to rotate around a main shaft, accordingly, the vertical space is fully utilized, and the planar **parking** space is saved; the more the parking number on each platform is, the larger the saved space is; and meanwhile, a traditional traveling channel does not need to be reserved, scattered vacant land in cities can be fully utilized to achieve high-density **parking**, mounting is convenient and fast, and the cost is low.

Inventors

CHEN XUEHUI

LI HAO

YU CHUANYANG

HUANG LEI

YAN ZHEN

BIAN XIAOYU

FANG HONGJIE

TANG SHUN

TANG SULONG

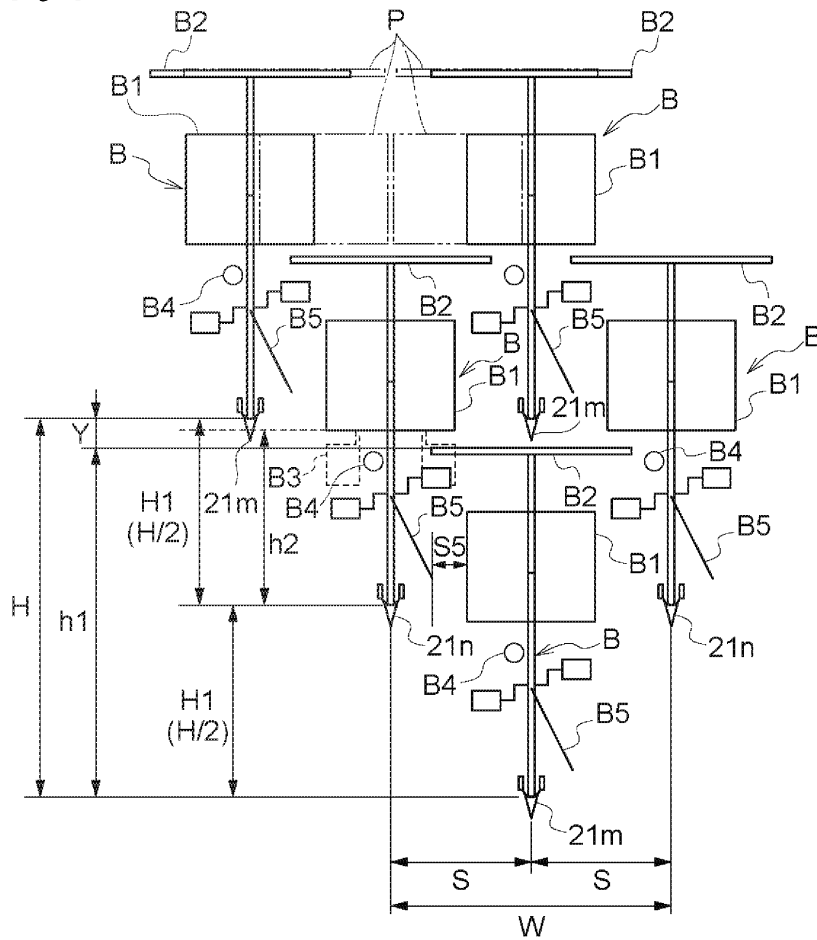
Latest standardized assignees - inventors removed

ANHUI JIANZHU UNIVERSITY

Family 11/30 - FAMPAT - ©Questel

Images

[Fig. 7]



Publication numbers

JP2019127803

WO2019/146134

CN208310322

Publication kind codes

A

A1

U

Publication dates

2019-08-01

2019-08-01

2019-01-01

Earliest priority date

2018-01-26

Title

(WO2019146134)

Parking system

Abstract

(WO2019/146134)

Provided is a parking system which includes a gate section (40) that delivers a two-wheeled vehicle (B), an accommodation section (20) including a plurality of pallets (21) that accommodates the two-wheeled vehicle B, a cradle (60) that conveys the two-wheeled vehicle (B) from the gate section (40) to one of the pallets (21) of the accommodation section (20), and a lift section (80) that moves up and down the cradle (60), wherein the accommodation section (20) includes a plurality of layers, each layer including a plurality of the pallets (21), and at least one layer has a vertical interval narrower than a

vehicle height of the two-wheeled vehicle (B) accommodatable between the at least one layer and an upper layer, and has the plurality of pallets (21) at positions shifted in a horizontal direction with respect to the plurality of pallets (21) of the upper layer.

Inventors

KITAMURA AKIO

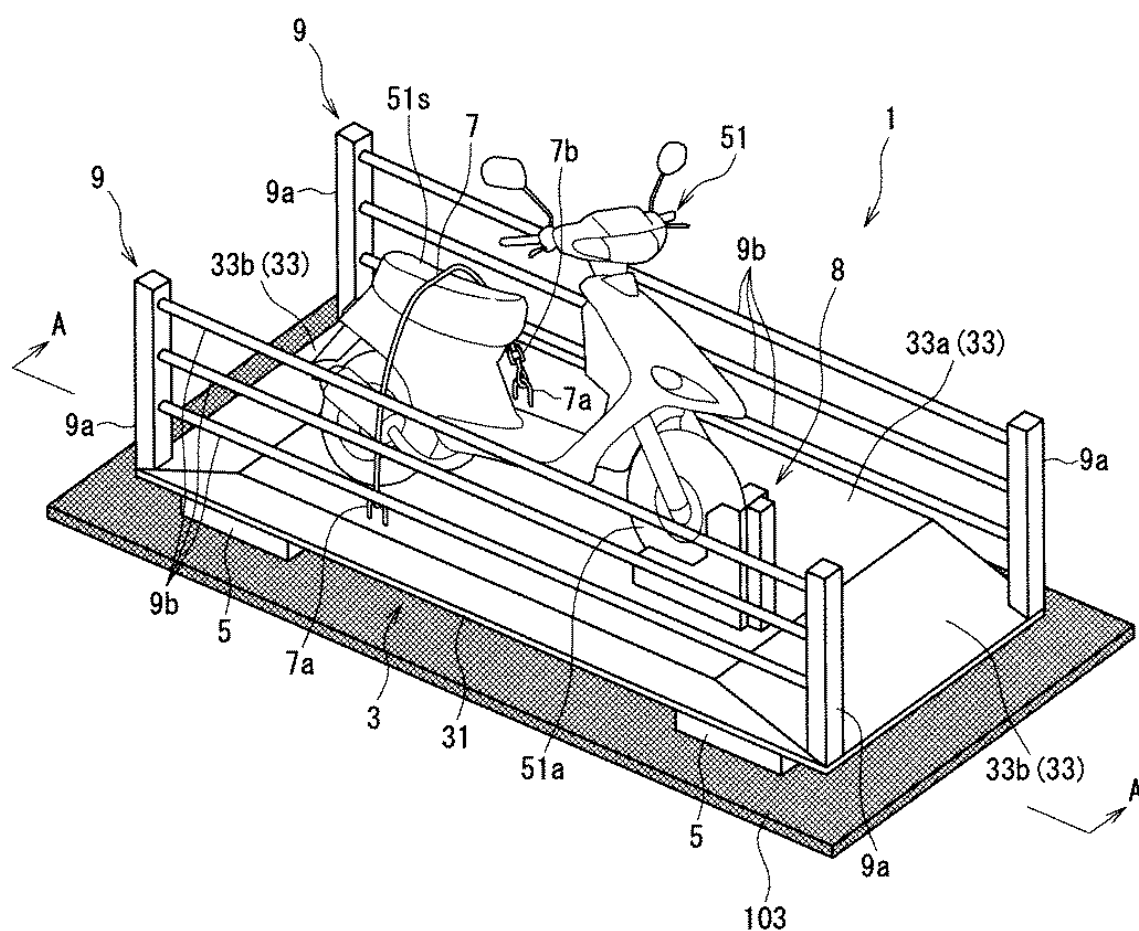
IKEDA TOSHIO

Latest standardized assignees - inventors removed

GIKEN

Family 12/30 - FAMPAT - ©Questel

Images



Publication numbers

JP4502279

JP2009097166

Publication kind codes

B2

A

Publication dates

2010-04-30

2009-05-07

Earliest priority date

2007-10-15

Title

(JP2009097166)

Two-wheel vehicle container

Abstract

(JP2009097166)

PROBLEM TO BE SOLVED: To divert a four-wheel vehicle pallet of a mechanical **parking** space to that of a two-wheel vehicle without working.

SOLUTION: A two-wheel vehicle container (1) is used for diverting the four-wheel vehicle pallet (103) to the two-wheel vehicle one (51) by placing the four-wheel vehicle pallet (103) on it in the mechanical **parking** space. The two-wheel vehicle container comprises: a placing plate (3); four antislip leg portions (5) which are fixed to an undersurface of the placing plate; and fixing mechanisms (7 and 8) for releasably fixing a placed two-wheel vehicle to the placing plate, on the top surface of the placing plate. The four-wheel vehicle pallet can be diverted to the two-wheel vehicle one only by placing the two-wheel vehicle container on the four-wheel vehicle pallet.

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Inventors

OHASHI MIKIO

TAKAGI SEIICHI

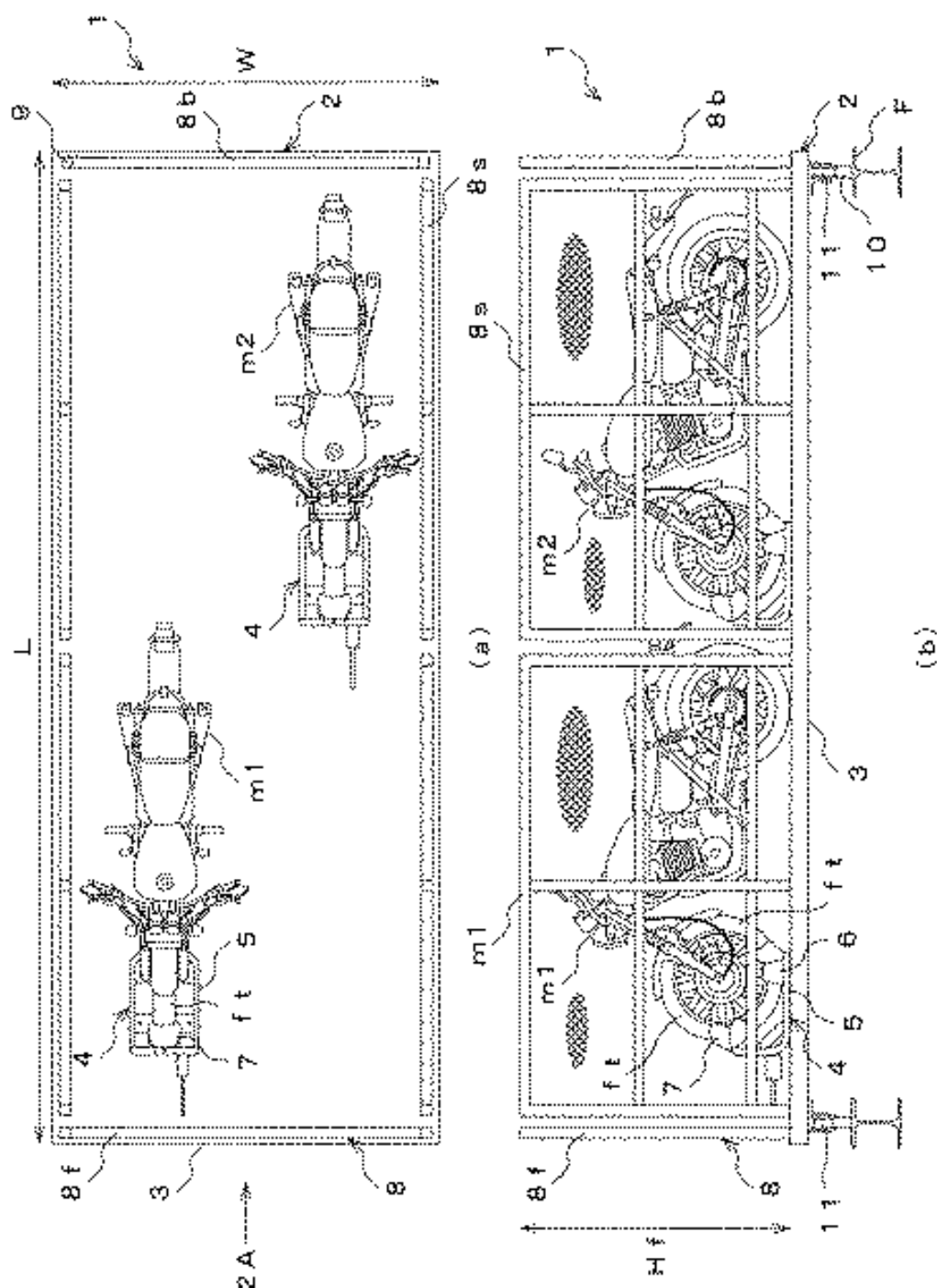
HARAOKA MITSURU

Latest standardized assignees - inventors removed

FOUNDATION CORPORATE **PARKING** LOT IMPROVEMENT PROMOTION ORGANIZATION 7 KANDA HIGASHI
MATSUSHITA CHO CHIYODA KU TOKYO 1 7

Family 13/30 - FAMPAT - ©Questel

Images

**Publication numbers**

JP5192267

JP2009228239

Publication kind codes

B2

A

Publication dates

2013-02-08

2009-10-08

Earliest priority date

2008-03-19

Title

(JP2009228239)

Mixed type parking apparatus

Abstract

(JP2009228239)

PROBLEM TO BE SOLVED: To provide a mechanical **parking** apparatus, storing an automobile and a **motorcycle** which are intermingled.

SOLUTION: In this **parking** apparatus 1, a plurality of vehicle pallets are housed in a building, and these vehicle pallets are loaded with vehicles to be parked. The vehicle pallets are composed of a pallet special for an automobile to be loaded with an automobile and a pallet 2 special for a **motorcycle**, which is provided with at least two fixing holders 4, 4 for holding and fixing the front wheels of the motorcycles m1, m2 to the pallet to be loaded with two or more motorcycles m1, m2.

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Inventors

KANBA YUKIHIDE

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HORI TAKEHIRO

ITO YASUO

Hiroyuki Shirasawa

Latest standardized assignees - inventors removed

IHI TRANSPORT MACHINERY

SHIN MEIWA INDUSTRIES

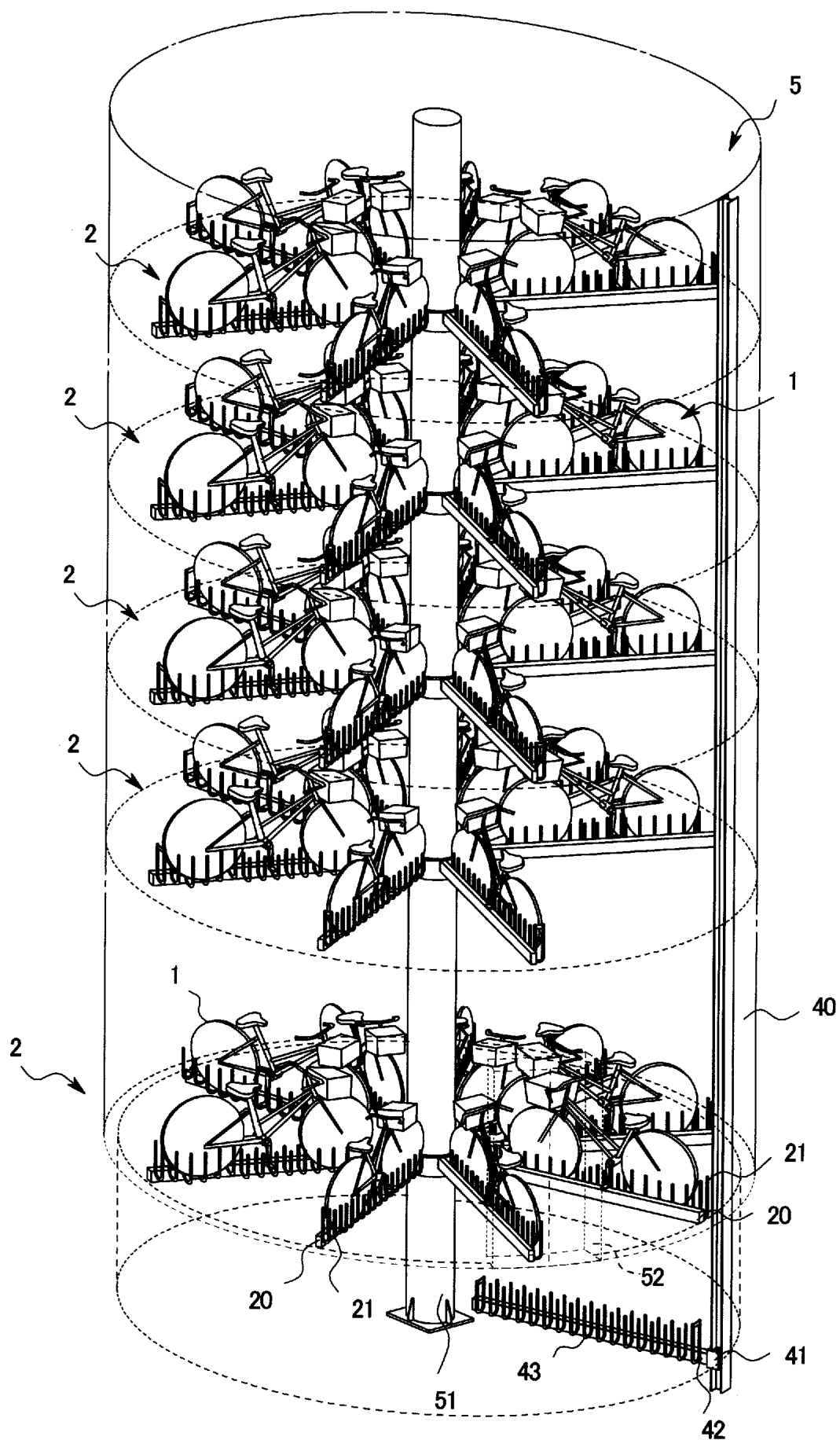
NISSEI

NIPPON CABLE

Family 14/30 - FAMPAT - ©Questel

Images

[図1]



CN102803634

CN102803634

JP2012077435

JPWO2010150834

WO2010/150834

Publication kind codes

B2

B

A

A

A1

A1

Publication dates

2015-05-22

2014-10-15

2012-11-28

2012-04-19

2010-12-29

2010-12-29

Earliest priority date

2009-06-23

Title

(WO2010150834)

Mechanical three-dimensional bicycle **parking** facility**Abstract**

(WO2010/150834)

A mechanical three-dimensional bicycle **parking** facility which is relatively small-sized and can perform continuous loading and unloading operation in a short time by operating at the same time a **lifting** device and a storage shelf rotating device for each stage. A mechanical three-dimensional bicycle **parking** facility provided with bicycle storage shelves (2) which are arranged at intervals in the top-bottom direction, a bicycle conveyance means (3) which conveys a bicycle (1) of a bicycle storage shelf (2) in the horizontal direction with the bicycle (1) held in an upright position, and a bicycle transfer means (4) which **lifts**, lowers, and transfers the bicycle to the bicycle storage shelf (2) of a predetermined stage. Each bicycle storage shelf (2) and the bicycle transfer means (4) are respectively provided with a bicycle wheel insertion/holding body (21) and a bicycle wheel insertion/holding body (43) which are each provided with U- or V-shaped bicycle wheel insertion/holding bodies arranged at intervals in a comb-like shape and disposed on one side surface of a holding body mounting bar in the same direction. The facility is also provided with a transferred-bicycle receiving section which is held by a transferred-bicycle holding means provided at a position at which the bicycle wheel insertion/holding body (21) and the bicycle wheel insertion/holding body (43) do not interfere with each other, the transferred-bicycle holding means being provided at an angle at which the centerlines of the bicycle wheel insertion/holding body (21) and the bicycle wheel insertion/holding body (43) coincide with each other in the vertical direction.

Inventors

NOMURA KYOUZOU

Latest standardized assignees - inventors removed

NOMURA

NOMURA KYOUZOU

2017-08-17

Title

(JP2019035260)

Two-wheeler **parking** system

Abstract

(JP2019035260)

PROBLEM TO BE SOLVED: To provide a two-wheeler **parking** system which is possible to improve the freedom of arrangement according to the space, and to effectively utilize the space to increase the number of parked motorcycles.

SOLUTION: A two-wheeler **parking** system comprises a pallet 20 which is rotatably and elevatingly mounted on a column 31 to be erected and on which a two-wheeled vehicle B is mounted, an elevation mechanism 30 for raising and lowering the pallet 20, and a **parking** space 40 formed in a plurality of steps in the vertical direction by the pallet 20 which is **lifted** and lowered by the **lift** mechanism 30, in which the elevating mechanism 30 includes a pivot angle setting mechanism 50 that sets a pivot angle of the pallet 20 with respect to the support column 31.

SELECTED DRAWING: Figure 1

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Inventors

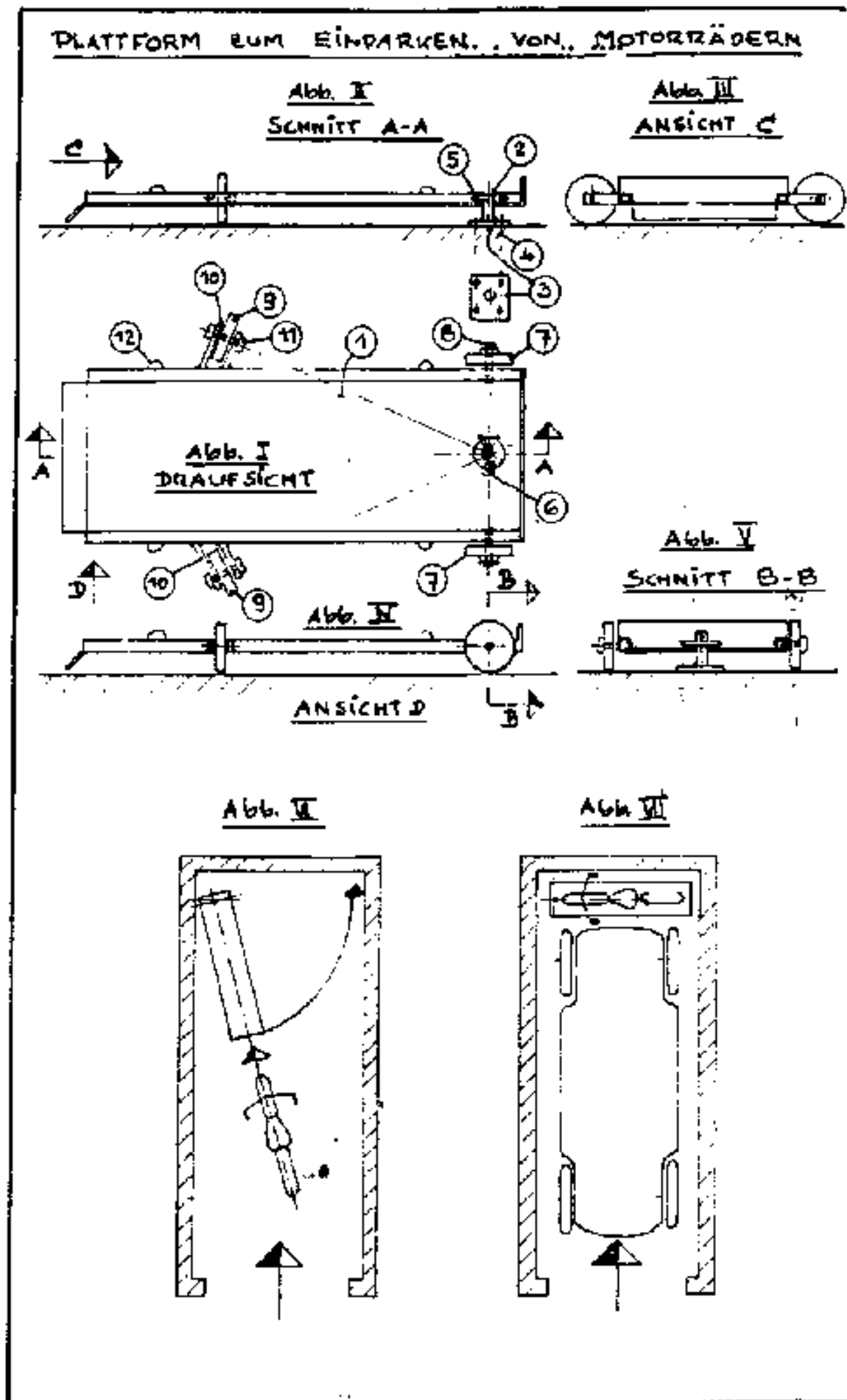
MIYATA JUNYA

Latest standardized assignees - inventors removed

IHI TRANSPORT MACHINERY

Family 16/30 - FAMPAT - ©Questel

Images



Publication kind codes

U1

Publication dates

1997-06-05

Earliest priority date

1997-04-08

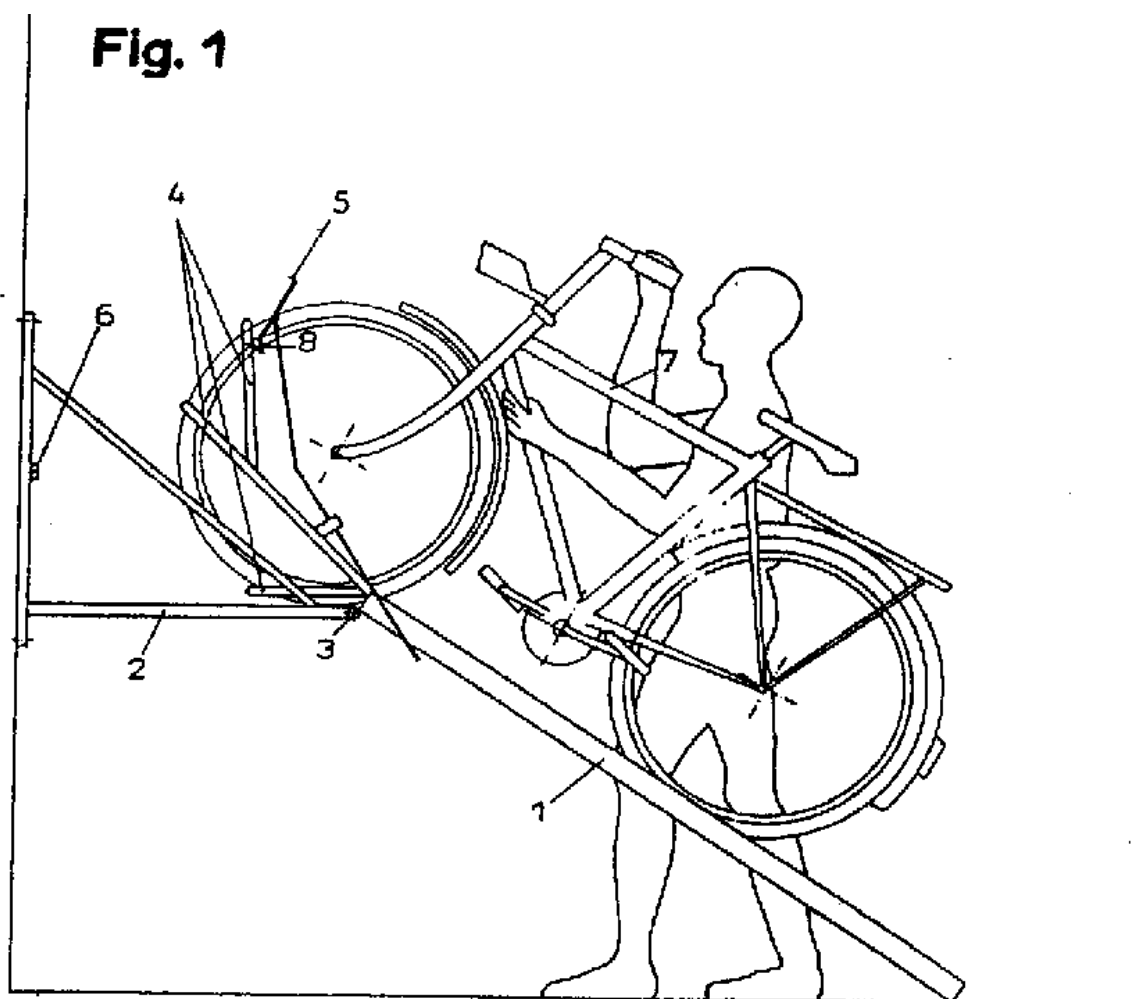
Title

(DE29706198)

Platform for **parking** of motorcycles, in particular in garages**Latest standardized assignees - inventors removed**

VERSE ULF

Family 17/30 - FAMPAT - ©Questel

Images**Publication numbers**

DE9310401

Publication kind codes

U1

Publication dates

1993-09-09

Earliest priority date

1993-07-13

Title

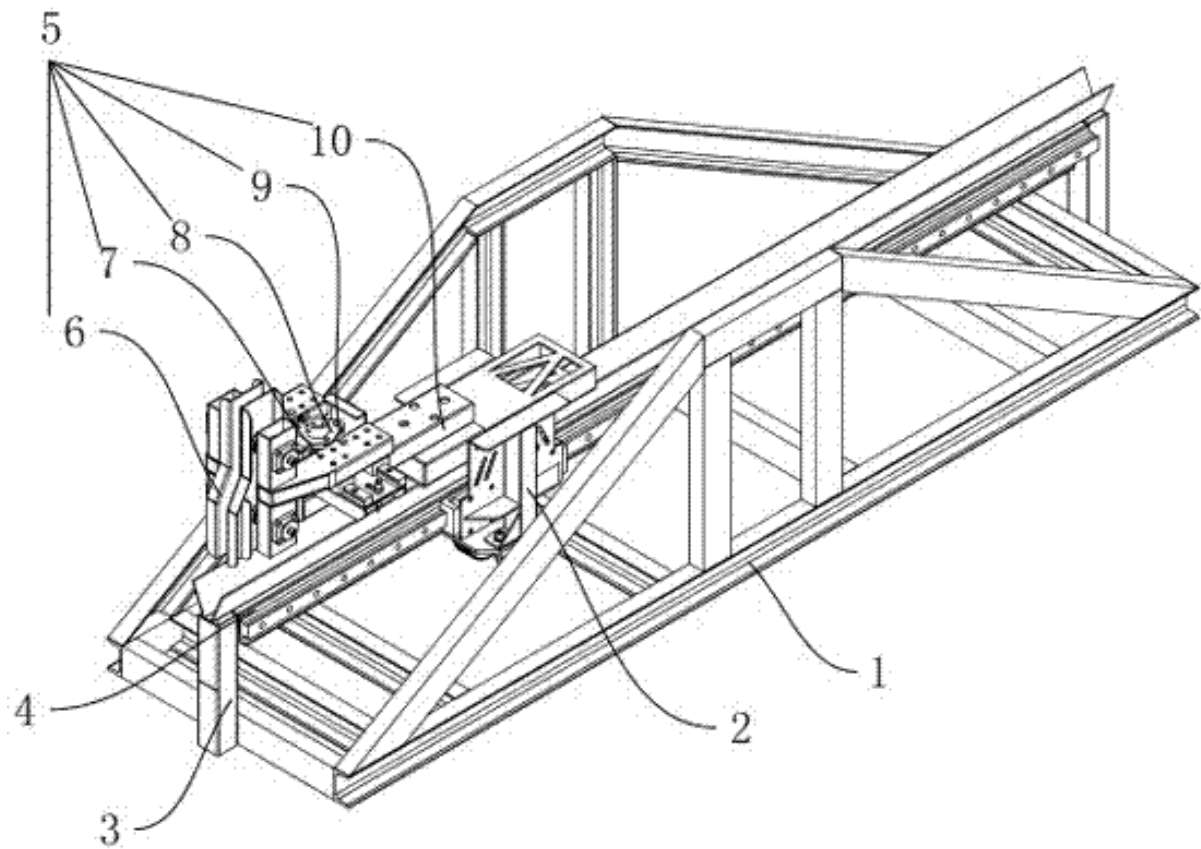
(DE9310401)

Bicycle stand device in particular for short **garage** pivot construction

Latest standardized assignees - inventors removed

MAYER JOHANN

Family 18/30 - FAMPAT - ©Questel

Images**Publication numbers**

CN206384072

Publication kind codes

U

Publication dates

2017-08-08

Earliest priority date

2016-11-30

Title

(CN206384072U)

Bicycle automatic stopping device

Abstract

(CN206384072)

The utility model relates to a bicycle automatic stopping device has solved current bicycle **parking** point and has establish on the road limit, restricted by the place, and the bicycle quantity that can park is limited, the crowd defect small in quantity that can radiate, include: the support body that supports, set up and be used for supporting the bicycle and enabling the crossbeam that the bicycle removed on it on the support body, set up the clamping mechanism who is used for clipping or loosening proper motion car front wheel on the crossbeam, set up and be used for driving the sideslip mechanism that clamping mechanism removed and drove the bicycle removal below the crossbeam. The bicycle passes through the crossbeam to be supported, and the bicycle can move on the crossbeam, may not take the road surface after consequently **lifting** the crossbeam, not limited by the fabricating yard, and as long as set up the crossbeam according to the layer, can expand bicycle **parking** quantity to expand the radiation range that this bicycle **parking** is ordered, realize the automation mechanized operation, convenient operation.

Inventors

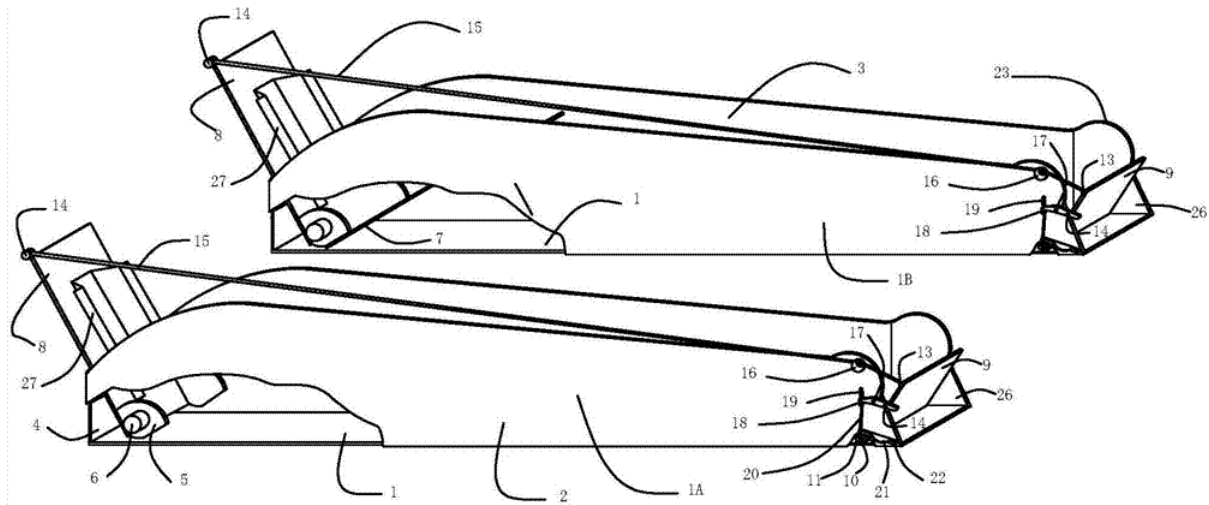
XU XIREN

DONG YUQI

Latest standardized assignees - inventors removed

HANGZHOU HAOCHETECHNOLOGY

Family 19/30 - FAMPAT - ©Questel

Images**Publication numbers**

CN108189933

Publication kind codes

A

Publication dates

2018-06-22

Earliest priority date

2017-12-31

Title

(CN108189933)

Dislocation parking system for electric bicycle

Abstract

(CN108189933)

The invention discloses a dislocation parking system for an electric bicycle. The dislocation parking system for the electric bicycle is convenient to use, the space is saved during centralized parking, and parking and taking-out can also be facilitated. The system is provided with a horizontal parking place, an inclined parking place and a locking and tripping mechanism, during parking, a U-shaped or single supporting leg does not need to be used for parking, the electric bicycle only needs to be inwards pushed along a U-shaped groove, two pedals can be automatically rotated to a basic horizontal position, the electric bicycle cannot be prevented from entering the corresponding parking space, then the bicycle is pushed till the electric bicycle completely enters the corresponding parkingspace, and accordingly parking can be completed; during taking-out, the bicycle can be directly pulled out just by stepping the locking and tripping mechanism by foot, and the electric bicycle is extremely convenient to park and take out.

Inventors

SHEN JIWEI

Latest standardized assignees - inventors removed

HANGZHOU SHENDAXIA DECORATION DESIGN ENGINEERING

Family 20/30 - FAMPAT - ©Questel

Images

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.

Abstract

(DE4235158)

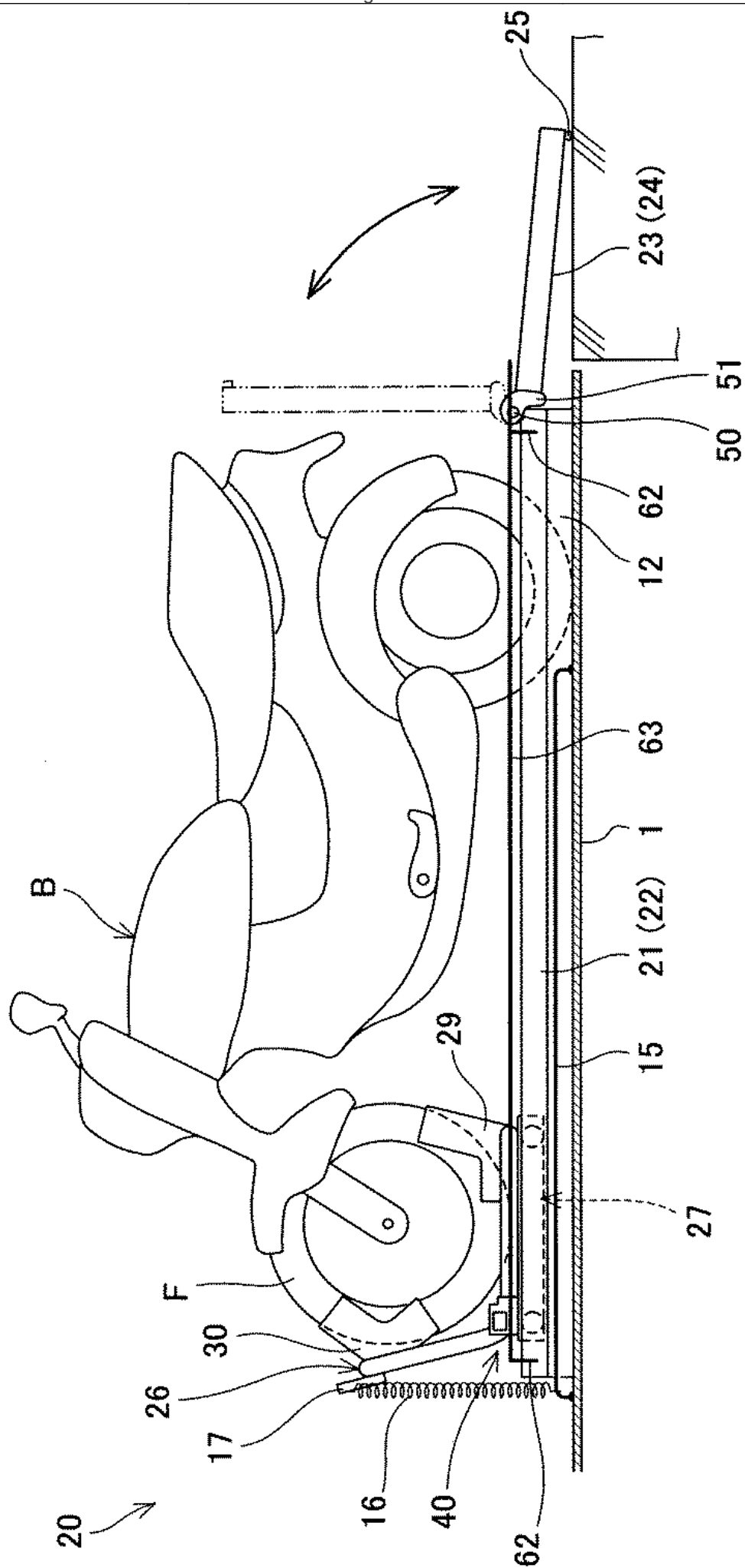
In a face wall (4) of the box a pivot door is provided. The floor (5) of the box is formed as a pivot floor and the attached side wall (1) as a pivot wall, both of which are pivotable around a common side edge (23). The floor frame (5) with the sidewall are formed like a drawer, and the floor is displaceable 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.

Inventors

BITTLINSKY BERNHARD

Family 21/30 - FAMPAT - ©Questel

Images



Publication numbers

JP5202438

JP2010274680

Publication kind codes

B2

A

Publication dates

2013-02-22

2010-12-09

Earliest priority date

2009-05-26

Title

(JP2010274680)

Sliding storage device

Abstract

(JP2010274680)

PROBLEM TO BE SOLVED: To provide a sliding storage device allowing a storage operation reduced in a load on a workman when storing a heavy article such as a **motorcycle**.

SOLUTION: The sliding storage device includes fixing rails 21 and 22 extending in an advancing direction of the heavy article to be stored, tiltable rails 23 and 24 which are connected to the end portions of the fixing rails 21 and 22 on an inlet/outlet side, become in an erected state or a tilted state in which distal end portions are tilted to the inlet/outlet side, and are connected to the fixing rails 21 and 22 in the tilted state, an article holding portion slidable in the approaching direction by being guided by the tiltable rails 23 and 24 and the fixing rails 21 and 22, and holding the heavy article, and a guide bar 15 extending along the advancing direction of the heavy article. The article holding portion has a tensile spring 16 with one end engaged with the front end of the article holding portion, and the other end connected movably along the guide bar 15. A predetermined urging force acts on the tensile spring 16 when the article holding portion is at the position of the tiltable rails 23 and 24.

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Inventors

SATAKE HIROYUKI

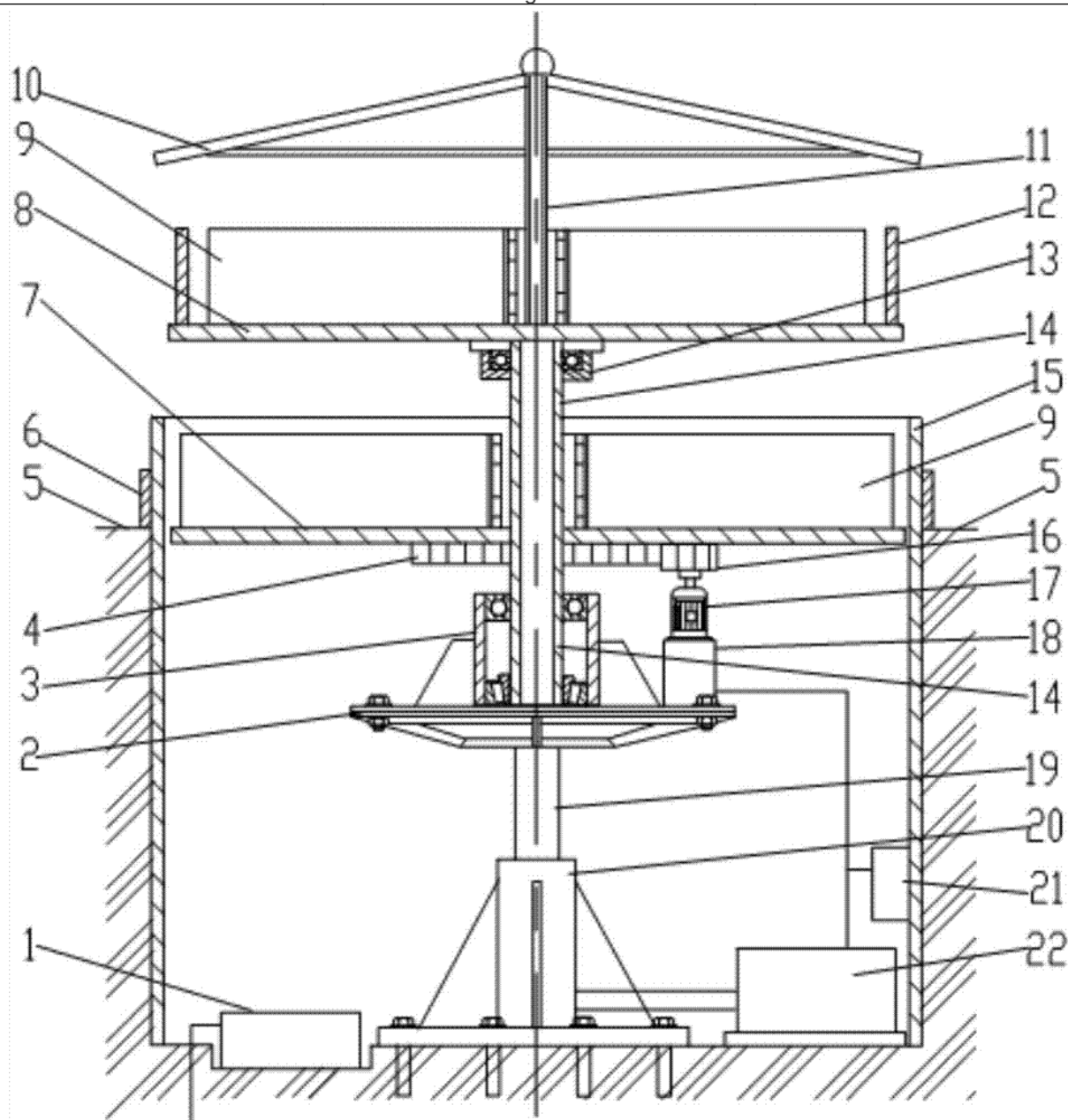
Latest standardized assignees - inventors removed

SHIN MEIWA INDUSTRIES

SHINMEIWA ENGINEERING

Family 22/30 - FAMPAT - ©Questel

Images

**Publication numbers**

CN108454736

Publication kind codes

A

Publication dates

2018-08-28

Earliest priority date

2018-04-04

Title

(CN108454736)

Bicycle parking device

Abstract

(CN108454736)

The invention discloses a bicycle parking device, which comprises a vertical tube, a carrier plate, a rotating shaft, a lower rotating plate and an upper rotating plate. The vertical tube is connected with the inner wall of a vertical shaft, the upper portion of the vertical tube is higher than the ground and provided with an opening for bicycles to get in and out, the carrier plate is positioned in the center of the vertical shaft, and a lifting mechanism is arranged between the carrier plate and the inner bottom surface of the vertical shaft. The lower end of the rotating shaft is connected with the carrier plate through a bearing, the middle of the rotating shaft is coaxially and fixedly connected with the center of the lower rotating plate, the

upper end of the rotating shaft is connected with the center of the upper rotating plate through a bearing, and a mechanism for driving the lower rotating plate to rotate is arranged between the bottom surface of the lower rotating plate and the carrier plate. The bicycle **parking** device has advantages of safety and convenience in bicycling taking and storing, saving of floor area, energy consumption reduction and convenience in management.

Inventors

ZHANG BAIYONG

LI JIANWEI

ZHANG YANHUA

WU LIXUN

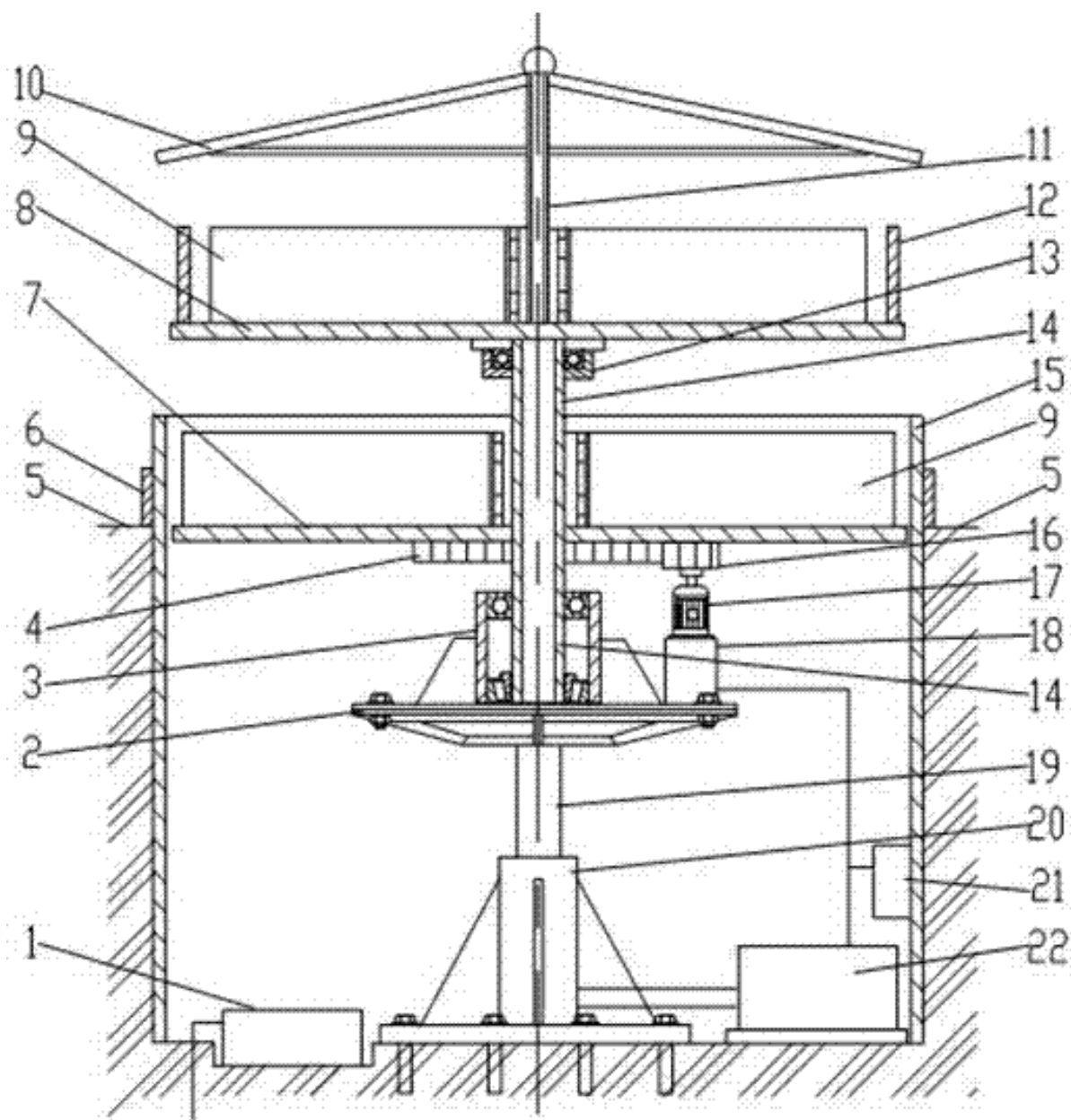
FAN QINGLIN

LIU WENHUI

Latest standardized assignees - inventors removed

SHIJIAZHUANG SANMIAO SOFTWARE TECHNOLOGY

Family 23/30 - FAMPAT - ©Questel

Images**Publication numbers**

CN208069876

Publication kind codes

U

Publication dates

2018-11-09

Earliest priority date

2018-04-04

Title

(CN208069876U)

Parking facility for bicycles**Abstract**

(CN208069876)

The utility model discloses a **parking** facility for bicycles, include with the shaft in an upright section of thick bamboo, tray, pivot, lower floor's carousel and the upper carousel of wall connection, the upper portion of founding a section of thick bamboo is higher than ground and is equipped with the opening that the bicycle was passed in and out, the tray is located the middle position of shaft, is equipped with elevating system between the bottom surface in tray and the shaft, the lower extreme of pivot passes through the bearing to be connected with the tray, the central coaxial fixed connection of pivot middle part and lower floor's carousel, and the upper end of pivot is passed through the bearing and is connected with the center of upper carousel, is equipped with the mechanism that drives lower floor's carousel and rotate between the bottom surface of lower floor's carousel and tray. The utility model discloses a **parking** facility for bicycles has the bicycle **parking** safe convenience of picking up the car, practices thrift area, reduces the energy consumption, management party characteristics just.

Inventors

ZHANG BAIYONG

LI JIANWEI

ZHANG YANHUA

WU LIXUN

FAN QINGLIN

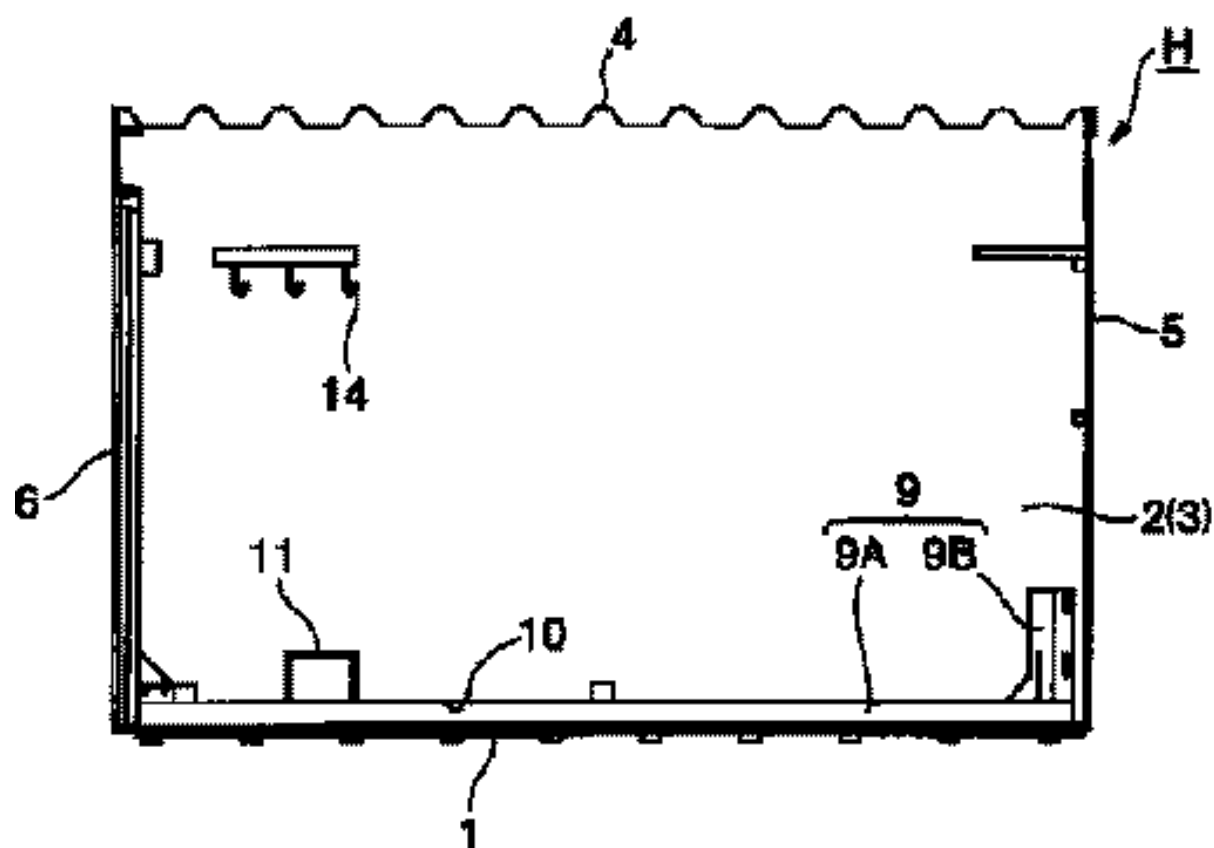
LIU WENHUI

Latest standardized assignees - inventors removed

SHIJIAZHUANG SANMIAO SOFTWARE TECHNOLOGY

Family 24/30 - FAMPAT - ©Questel

Images

**Publication numbers**

JP2003081148

Publication kind codes

A

Publication dates

2003-03-19

Earliest priority date

2001-09-13

Title

(JP2003081148)

Garage for two-wheeled vehicle

Abstract

(JP2003081148)

PROBLEM TO BE SOLVED: To provide a **garage** for a two-wheeled vehicle in which the two- wheeled vehicle including a **motorcycle** and a bicycle can be accommodated and stored even in a narrow space, and can be effectively protected from any damages such as theft.

SOLUTION: In the **garage** for the two-wheeled vehicle, a housing body comprises a bottom plate part having the width larger than the width of the two-wheeled vehicle, side plate parts having the length larger than the length of the two-wheeled vehicle and having the height larger than the height of the two-wheeled vehicle, a ceiling part disposed on upper end parts of the side plate parts, and a back side plate part, and a front opening part of the housing body is formed of a lockable door body which can be operated in an opening/ closing manner. A front wheel stopper to hold a front wheel in a self-standing manner and a rear wheel stopper to hold a rear wheel are disposed on an upper surface of the bottom plate part, and the front and rear wheel stoppers can be expandably adjusted in the width direction.

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Inventors

MATSUMURA TAKASHI

Latest standardized assignees - inventors removed

MCF

Family 25/30 - FAMPAT - ©Questel

Publication numbers

JPH0716851

JPH0486860

Publication kind codes

Y2

U

Publication dates

1995-04-19

1992-07-28

Earliest priority date

1990-11-30

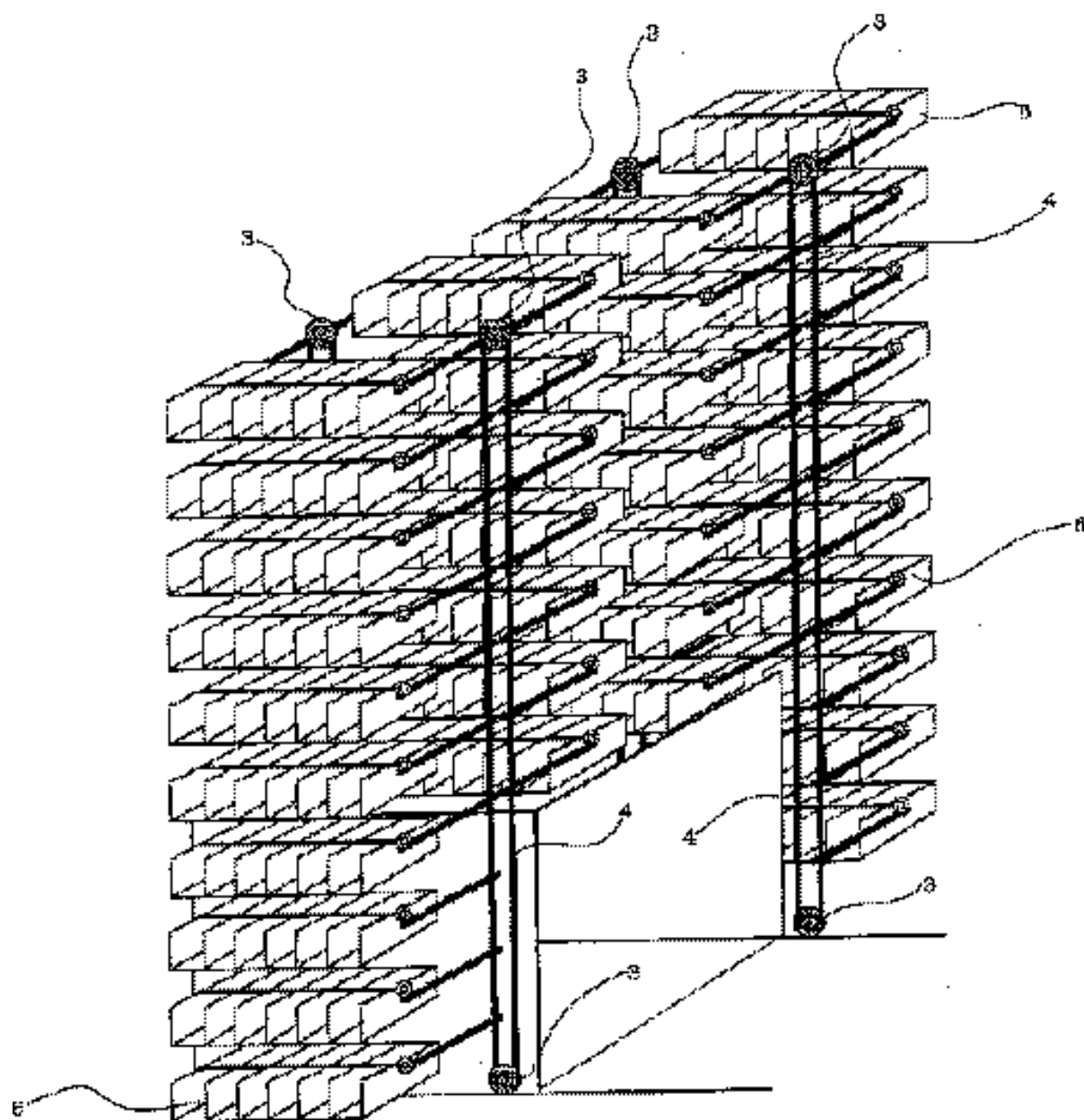
Title

(JP07016851Y)

Suspension assembly of the above formula **parking** apparatus

Family 26/30 - FAMPAT - ©Questel

Images

**Publication numbers**

JP2003041795

Publication kind codes

A

Publication dates

2003-02-13

Earliest priority date

2001-07-27

Title

(JP2003041795)

Multistory bicycle parking space

Abstract

(JP2003041795)

PROBLEM TO BE SOLVED: To solve a problem wherein a conventional bicycle parking space is bad in bicycle parking efficiency and requires a wide space, illegal bicycle parking is caused in large numbers at a street corner due to a shortage of the bicycle parking space, environmental beautification is impaired by environmental pollution by bicycle parking, and users earnestly desire a further easily usable bicycle parking space many number of parking spaces.

SOLUTION: This multistory bicycle parking space is provided with columns for arranging a multistory bicycle parking station, a guide rail, belt tensioning wheels, an endless chain belt, a hook for the belt, a large number of gondolas, gondola bar-shaped arms arranged in the gondolas, a column for a slide arm, the slide arm for interposing a slide means for the arm in the column for the slide arm, and a hook for the slide arm. The gondola bar-shaped arm is hooked on the hook for the belt, and is carried to the bicycle parking station. The hook of the gondola bar-shaped arm is transferred to the hook for the slide arm from the hook for the belt.

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Inventors

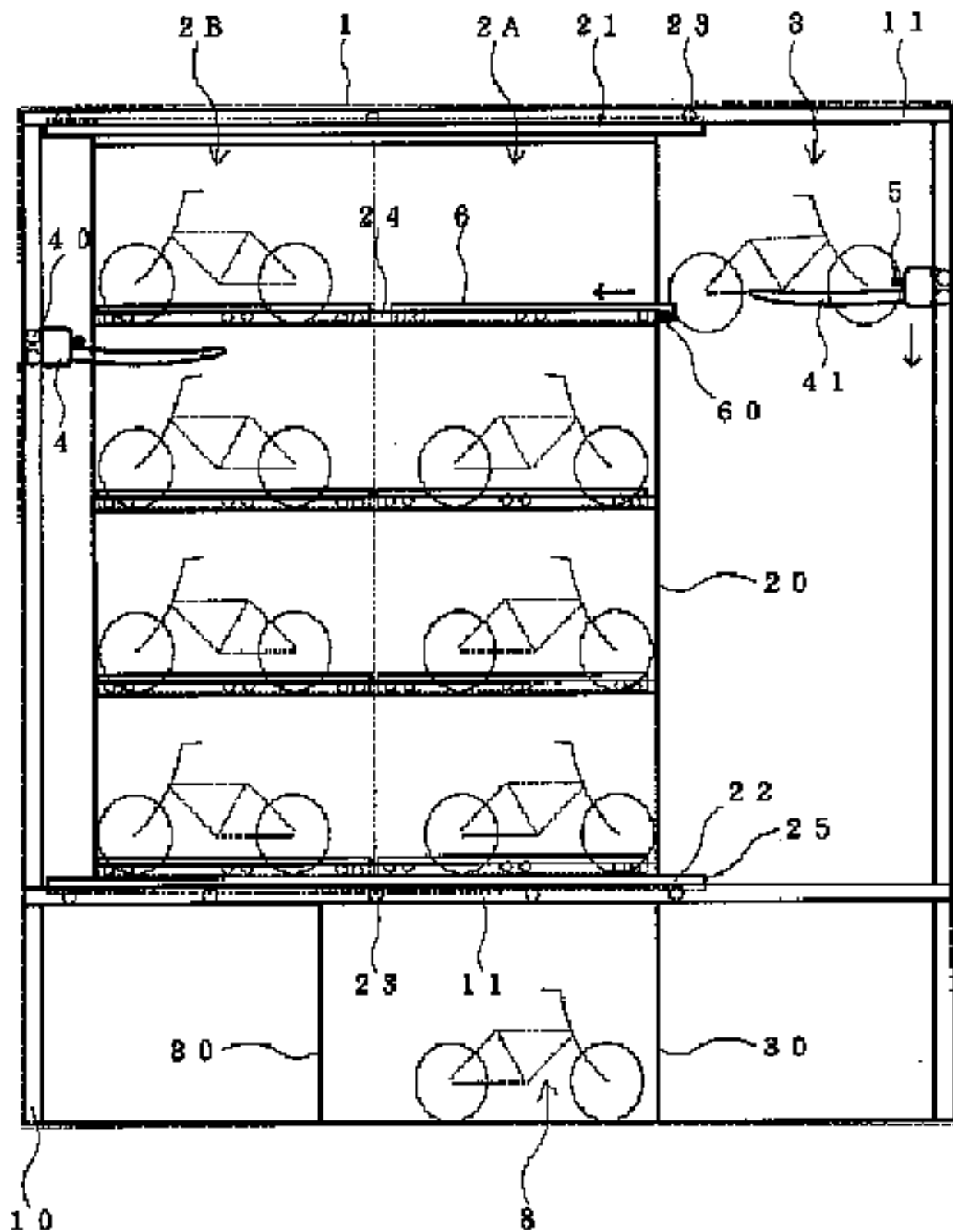
SUZUKI SHOICHIRO

Latest standardized assignees - inventors removed

TETSUDO

Family 27/30 - FAMPAT - ©Questel

Images

**Publication numbers**

JP11152927

Publication kind codes

A

Publication dates

1999-06-08

Earliest priority date

1997-11-20

Title

(JP11152927)

Bicycle multistory parking facility

Abstract

(JP11152927)

PROBLEM TO BE SOLVED: To contrive effective utilization of a parking space by right and left movably providing a shed capable of parking the two bicycles right and left in only one bicycle space, and providing a bicycle elevator vertically movable rightward and leftward of a space taking in and out the bicycle and a unit.

SOLUTION: An exit passage 8 is provided in a first floor to make two or more stories parking spaces, an upper frame 21 and a lower frame 22 provided with a wheel 23 in each are fitted to a frame body 10 in a shed 20, movable right and left, and for example, when the shed 20 is moved leftward, an elevator room 3 appears at a right end. Two carriages 6 are movably fitted on a rail 24 laid on the floor face of each story, parking spaces 2A, 2B of right and left each one bicycle are provided. A fork fitted on the right and left frame bodies 10 being the rail and vertically movable sandwiches the bicycle from both the sides to be lifted to a desired story. The shed 20 is moved to any one of the right and left sides, and a limited parking space is effectively utilized by utilizing a space appearing in the vertical direction on the other side as an elevator room.

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Inventors

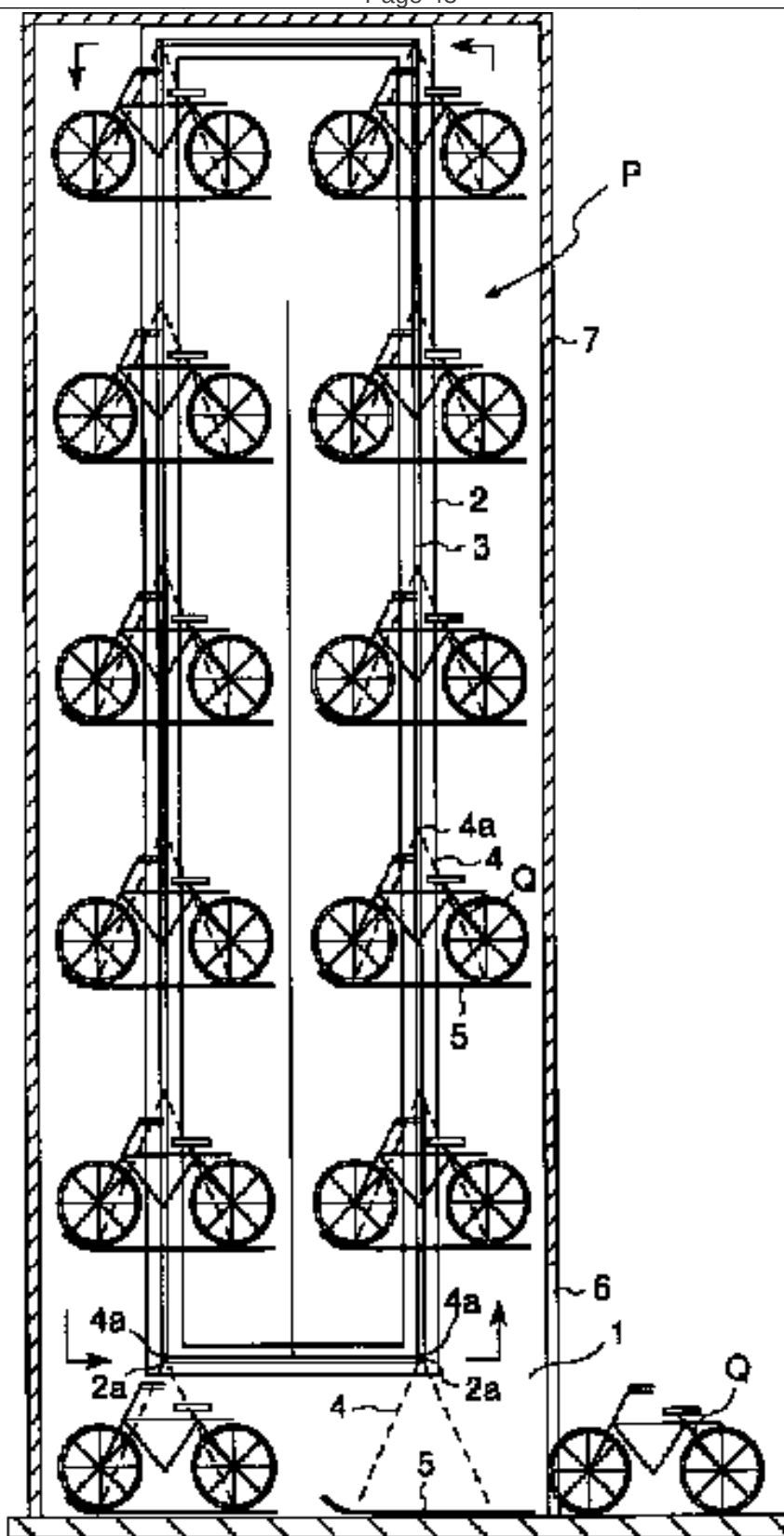
NAMIKI NORIO

Latest standardized assignees - inventors removed

YOKOHAMA TOKUSHU SENPAKU

Family 28/30 - FAMPAT - ©Questel

Images

**Publication numbers**

JP2000234451

Publication kind codes

A

Publication dates

2000-08-29

Earliest priority date

1999-02-15

Title

(JP2000234451)

Method and system for multilevel bicycle parking

Abstract

(JP2000234451)

PROBLEM TO BE SOLVED: To minimize a parking space by suspending a plurality of bicycle mounting bases from an annular supporting member so that they may form multilevel and equally spaced mounting bases and circulating like a Ferris wheel.

SOLUTION: A pair of right and left guide frames 2 is erected parallel in a narrow installation space and an endless chain belt 3 is made to follow each of the guide frame 2. Subsequently, right and left supporting arms 4 forming nearly an inverted V are suspended from the endless chain 3 at an equal interval, and bicycle mounting bases 5 are connected to the right and left supporting arms 4. When putting in or out a bicycle Q, the bicycle mounting base 5 is circulated sequentially rearward in relation to the bicycle gate 1 side like a Ferris wheel and the prescribed bicycle mounting base 5 is stopped in alignment with the bicycle gate 1 for taking in and out the bicycle Q, thereby making effective use of land through the saving of a bicycle parking space and preventing a bicycle theft from occurring.

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Inventors

SHIOZAWA EIJI

Latest standardized assignees - inventors removed

FREE

Family 29/30 - FAMPAT - ©Questel

Publication numbers

JP3061454

Publication kind codes

U

Publication dates

1999-09-17

Earliest priority date

1999-02-15

Title

(JP3061454U)

Multi-dimensional parking Formula device

Abstract

(JP3061454)

The present invention, solve the problem of environment pollution parking glorification to propel an object, such as a plurality of narrow space efficiently in the bicycle can be housed in three-dimensional parking device can be provided with multi-stage according to the present invention. SOLUTION: Multistages in the vertical direction at regular intervals so that the two-wheeled vehicle and the mounting platform to the support member and (3) a plurality of annular 5 to swing so as to form a hanging extended, the ring-shaped support member is (3) a two-wheeled vehicle entrance 1 depth toward the back side to side so that a plurality of two-wheeled vehicle for rotating the table 5 Ferris wheel to a circulating type.

Inventors

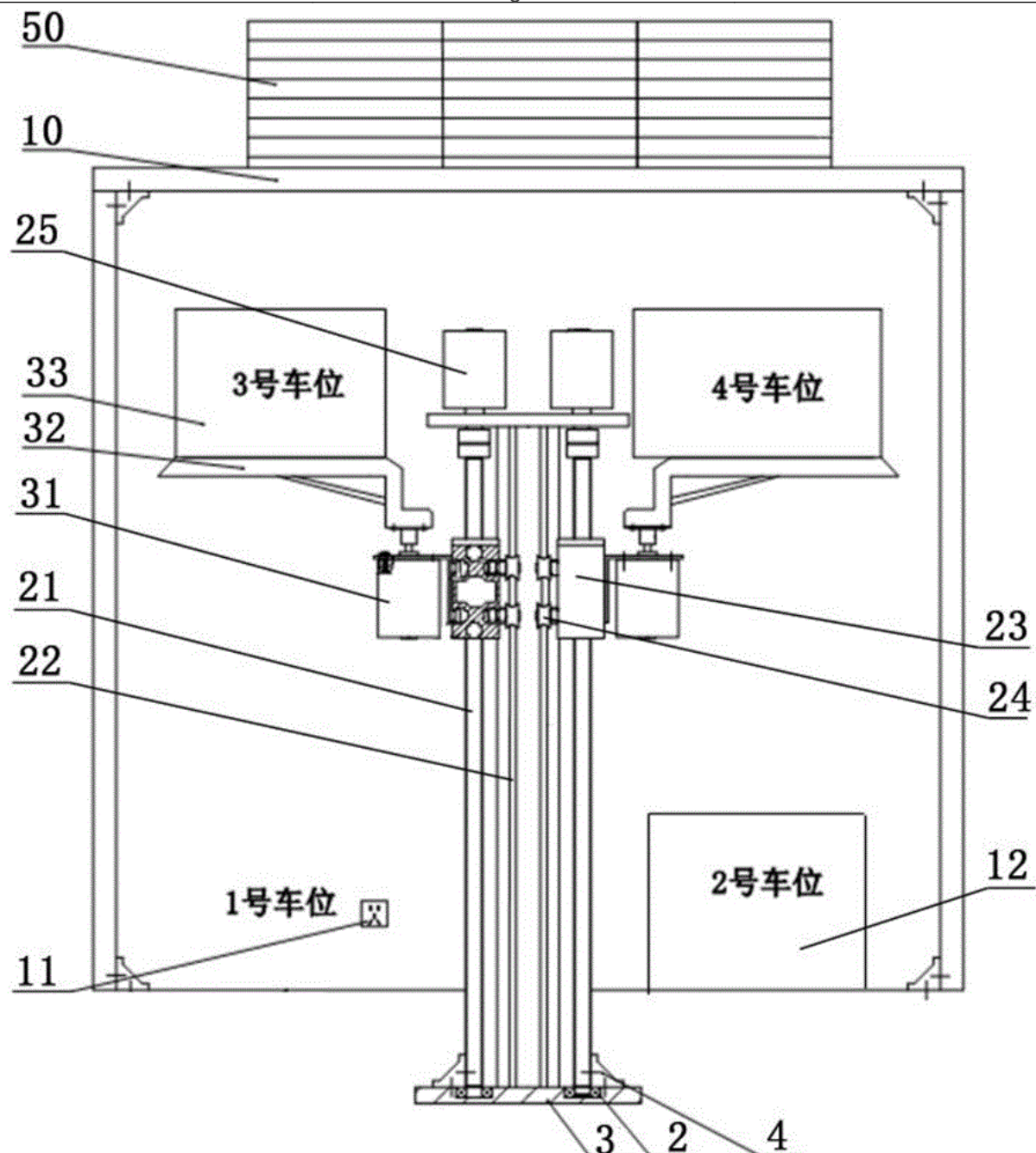
SHIOZAWA EIJI

Latest standardized assignees - inventors removed

FREE

Family 30/30 - FAMPAT - ©Questel

Images

**Publication numbers**

CN209479468

Publication kind codes

U

Publication dates

2019-10-11

Earliest priority date

2019-01-18

Title

(CN209479468U)

Double-layer parking device for electric vehicle

Abstract

(CN209479468)

The utility model discloses a double-layer parking device for an electric vehicle. The double-layer parking device comprises a garage body, a lifting component, a corner component, a solar panel and a control system. The bottom of the garage body is symmetrically provided with a first-layer parking room, a second-layer parking room and a third-layer parking room. The lifting components are symmetrically and vertically fixed to the bottom of the garage body and located between the

symmetrical layers of **parking** rooms, and each **lifting** component is provided with a sliding block capable of vertically moving and a **lifting** mechanism. The corner component comprises a second motor and a supporting beam assembly, and the second motor is fixed to the sliding block. The supporting beam assembly is rotationally connected with the second motor, a second-layer **parking** chamber is fixed to the supporting beam assembly, and charging piles are arranged in the second-layer **parking** chamber and the first-layer **parking** chamber correspondingly. The solar panel is fixed to the top of the **garage** body, the control system comprises an energy storage module, and the solar panel, the **lifting** component, the corner component and the charging pile are all connected with the energy storage module through buses. According to the device, space resources are fully utilized through double-layer charging, and more space is provided for electric vehicle charging for charging.

Inventors

XUE SHENGLI

ZHANG HONGWEI

ZHAO QIAORONG

ZHANG FAN

TIAN WENHU

WANG HUAN

Latest standardized assignees - inventors removed

XIJING UNIVERSITY