

45 Documents

Publication numbers	Title	Current assignees
CN206279996U U	Box removal construction platform of pull rod	STATE GRID SHANDONG ELECTRIC POWER, ...
CN106894752 A	Multifunctional operation and maintenance polling work platform device	SUQIAN POWER SUPPLY, ...
CN206220841U U	Car work platform is pedaled to special movable of rail vehicle	TIANJIN BINDEKINLI ELECTRONIC SCIENCE & TECHNOLOGY
CN205840760U U	Passenger train passenger door installation climbing frame	ANHUI ANKAI AUTOMOBILE
CA2988954 A1	Movable ladder	GRUPO BIMBO
US20160330951 A1	Octagon portable tree platform	HILLIS MINIS R, ...
CN205663405U U	Convenient emergency staircase that removes	YIBIN YUEHUA FOOD
CN205654286U U	A staircase for putting books	BAO LILI
KR101648967 B1	Folding footrest type safety ladder	CHO KYU SUN
US20160138338 A1	Bi-Level Work Platform for ISO Tanks	GARLOCK SAFETY SYSTEMS
EP2949541 A1	Rolling platform ladder	DAS LADDERS
US20080093166 A1	Rolling or skidding platform ladder	FROLIK DANNY, ...
US20150267469 A1	Ladder Plank	MARKUSEN JOE
CN204283197U U	Automatically braked step ladder	LI SANJI
WO201523527 A2	Custom mold press ladder	MICHELIN, ...
CN204113098U U	Access ladder for passenger car production workshop	NANJING GOLDEN DRAGON BUS
CA2851841 A1	Adaptable platform for loading and unloading railway cars	SAM CARBIS ASSET MAN
US20140053665 A1	Vehicle and method for tending to an elevated livestock cage	CRUISER PRODUCTS
US20140231171 A1	Leveling leg for a ladder	MATERIAL CONTROL
FR3001757 A1	Rolling stool for use in shelves of stores, has locking system for automatically locking upper structure in lower position relative to carriage when upper structure is mounted by operator, and releasing unit actuated by operator	FIMM
CA2794780 A1	Dual track ladder for use with mobile shelving	MATERIAL CONTROL
US20080121462 A1	Tilt Forward Ladder	MELFRED
CN101050687 A	An extension ladder and its use in a straight combination ladder, a platform ladder or a stepladder	TIANJIN KELIN MOLD TECHNIC
US20050029048 A1	Foldable stairway ladder	BALLYMORE
US6523640 B1	Undercarriage for mobile ladders and platforms	EGA PRODUCTS
US6283249 B1	Mobile ladder with lifting tray	EGA PRODUCTS

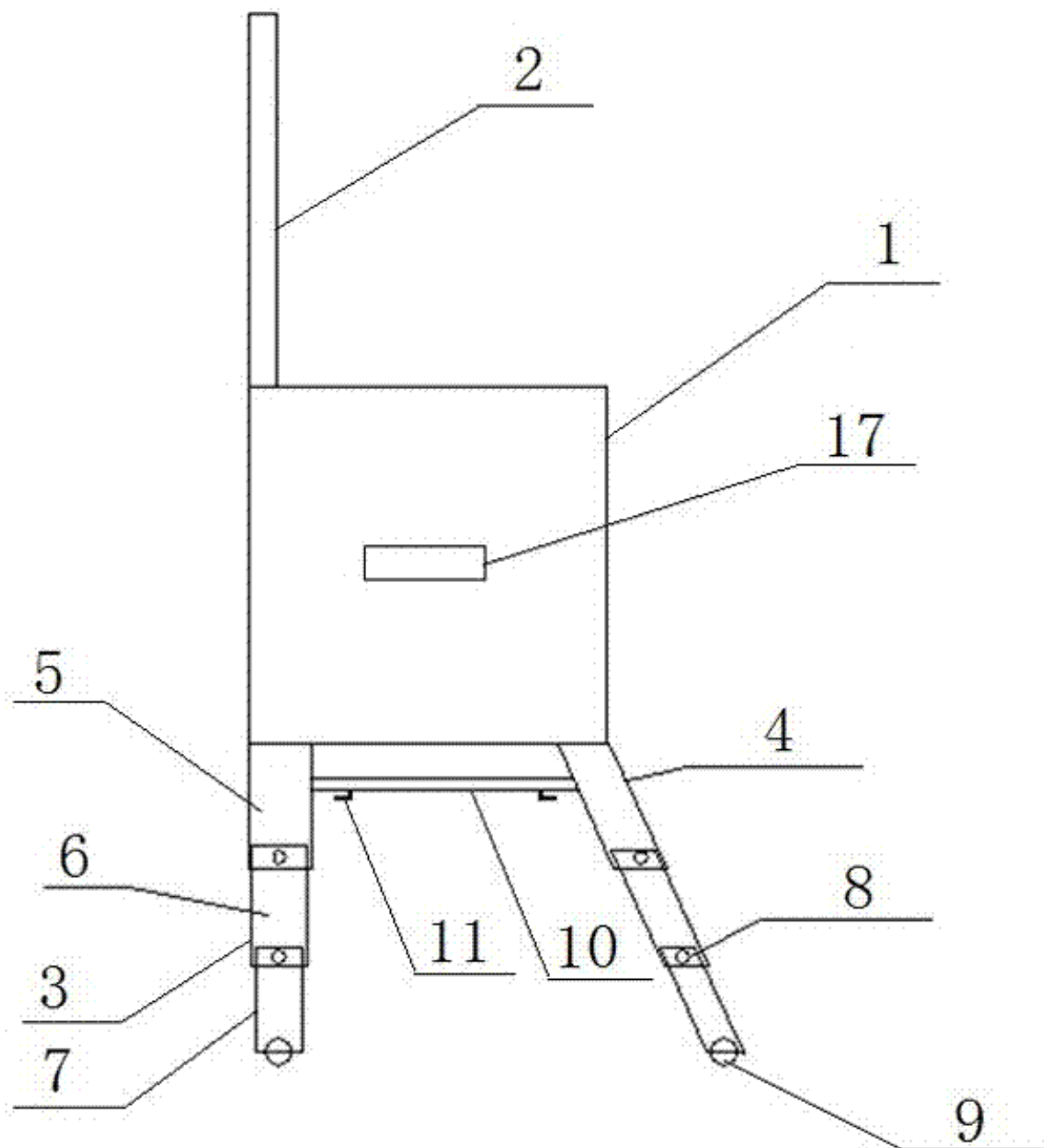
Publication numbers	Title	Current assignees
US6305496 B1	Safety mobile ladder stand	MATERIAL CONTROL
US6109628 A	Cart for carrying stock for light maintenance	SCHEPER; WILLIAM A.
US6230841 B1	Track ladder	MELFRED
DE29706219 U1	Multi-Purpose Working Diele	LAUG HORST
AU-320296 A0	Mobile ladder including a goods lift	CUSTOM LADDER
AU-627995 A0	Ladder	CUSTOM LADDER
US5584357 A	Ladder	CONSULIER ENGINEERING
CA2128300 A1	Ladder system including a caster bracket and method of forming	WERNER TECHNOLOGIES
US5941341 A	Mobile ladder stand	SPG INTERNATIONAL
US5332062 A	Simplified scaffold ladder	REVERE PAUL
WO8202570 A1	Portable lift with ladder	BUSHNELL JR SHERMAN W, ...
US4258826 A	Combination stepladder and load lifting apparatus	MURRAY DOUGLAS J
US4166516 A	Adjustable caster	EQUIPMENT
US3857460 A	Combination ladder and tool cart	NINI R
FI7402620 A	Ladders	HUGHES PETER
US3737007 A	Adjustable scaffold	BAKER ROSS
US3664458 A	Ladder scaffold vehicle	M S CHURCHMAN, ...
US3155190 A	Wheel mounted ladder	PATENT SCAFFOLDING
US2798652 A	Mobile ladders and platforms	EASTON GEORGE P

Family 1/45 - FAMPAT - ©Questel

Title

(CN206279996U)

Box removal construction platform of pull rod

Images**Publication data including kind & date**[CN206279996](#)

U

2017-06-27

CN206279996U

**Abstract**

(CN206279996U)

The utility model provides a box removal construction platform of pull rod, including the toolbox, the toolbox is for taking out drawer type, the drawer sets up to following the push -and -pull is carried out to the side in toolbox, the upper surface in toolbox is equipped with the pull rod, the upper end of pull rod is equipped with pull rod handle, pull rod handle is last to be equipped with a plurality of jacks, the toolbox lower surface is equipped with two extension ladder respectively in both sides around, branch maybe stretch out and draw back inclined ladder and flexible vertical ladder, the end of flexible inclined ladder and flexible vertical ladder is equipped with can brake the pulley be equipped with the gusset plate between the upper end of flexible vertical ladder and flexible inclined ladder, the lower surface of gusset plate is equipped with first group and inserts the kerve, box removal construction platform of pull rod still includes unable adjustment base, unable

adjustment base is last to be equipped with two at least connecting holes, unable adjustment base's upper surface be equipped with with the second group that first group inserted the use of kerve phase -match inserts the kerve.Above - mentioned construction platform simple structure, portable, convenient operation removes in a flexible way.

Inventors

WU MING

LI XUYAN

HUANG YING

YU JINHAI

BI CHONGGUI

HOU SHANGZONG

HUANG QUANJUN

CONG PEIMING

LIU YIFAN

YU MINGZHE

YANG YIFAN

Latest standardized assignees - inventors removed

STATE GRID SHANDONG ELECTRIC POWER

STATE GRID CORPORATION OF CHINA (SGCC)

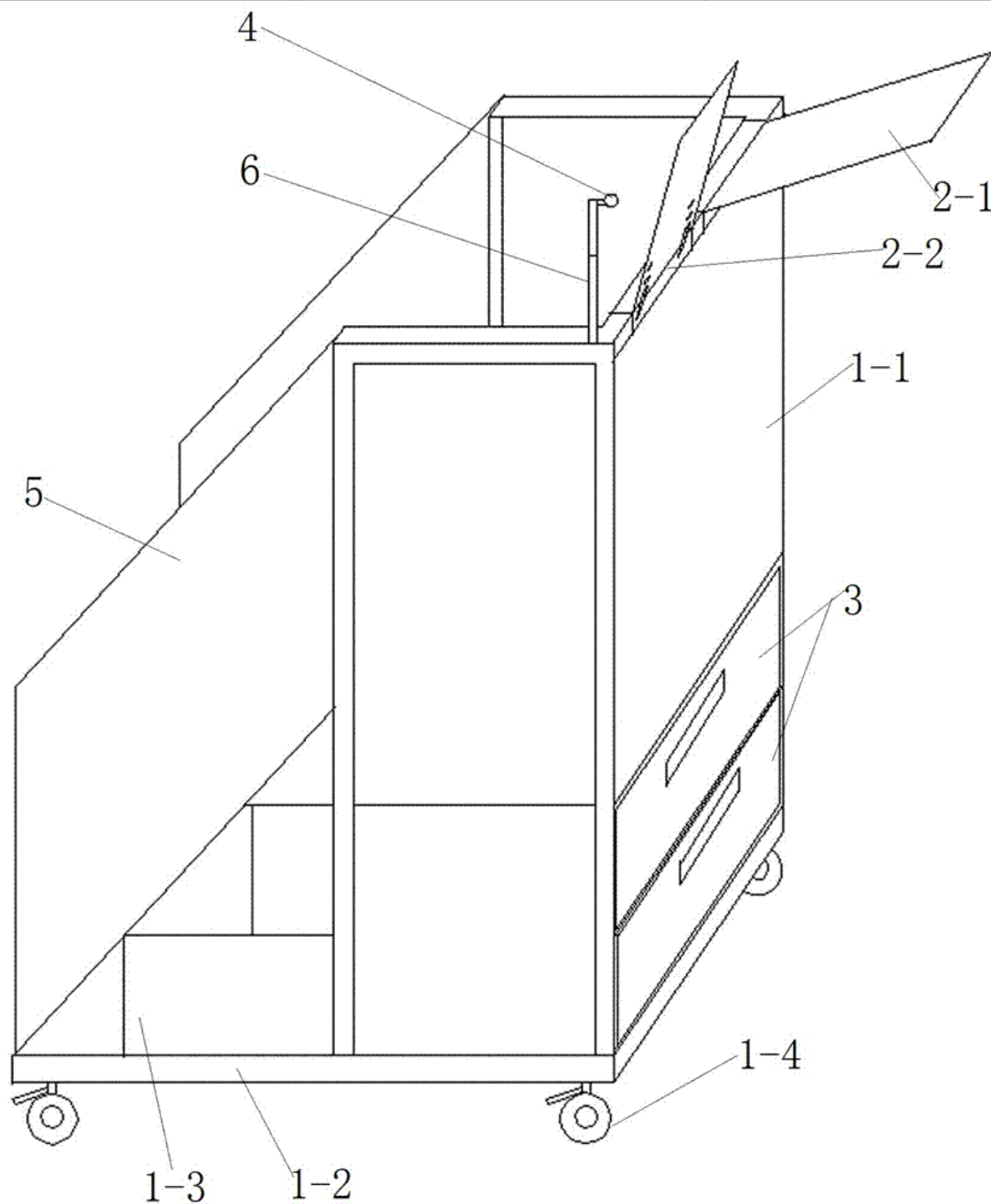
Family 2/45 - FAMPAT - ©Questel

Title

(CN106894752)

Multifunctional operation and maintenance polling work platform device

Images



Publication data including kind & date

[CN106894752](#)

A 2017-06-27 CN106894752



Abstract

(CN106894752)

The invention discloses a multifunctional operation and maintenance polling work platform device, and belongs to the technical field of power transformation operation, maintenance and overhaul of a power system, and is applicable to the power transformation operation, maintenance and overhaul of the power system. The device comprises a moveable pedal trolley, a plug workbench, a holding box and a camera; the moveable pedal trolley comprises a trolley body, a bottom plate and pedals; the pedals are installed on the bottom plate layer by layer; four corners beneath the bottom plate are equipped with one brake universal wheel; the trolley body is installed at the periphery of the uppermost pedal; the plug workbench is moveably installed on the trolley body; the pedal is hollow and the holding box is plugged in the pedals; the insides of the pedals are provided with chutes, slide rails are installed in the chutes; places where both sides of the holding box are corresponding to the slide rails at the inner parts of the pedals is equipped with pulleys; the holding box is glided in the pedals along with the slide rails.

Inventors

XU LEI
YANG WEI
CHEN QIUPING
ZHOU YANGYANG
SHEN JIANDONG
LIU JINHAI
WANG XIURU

Latest standardized assignees - inventors removed

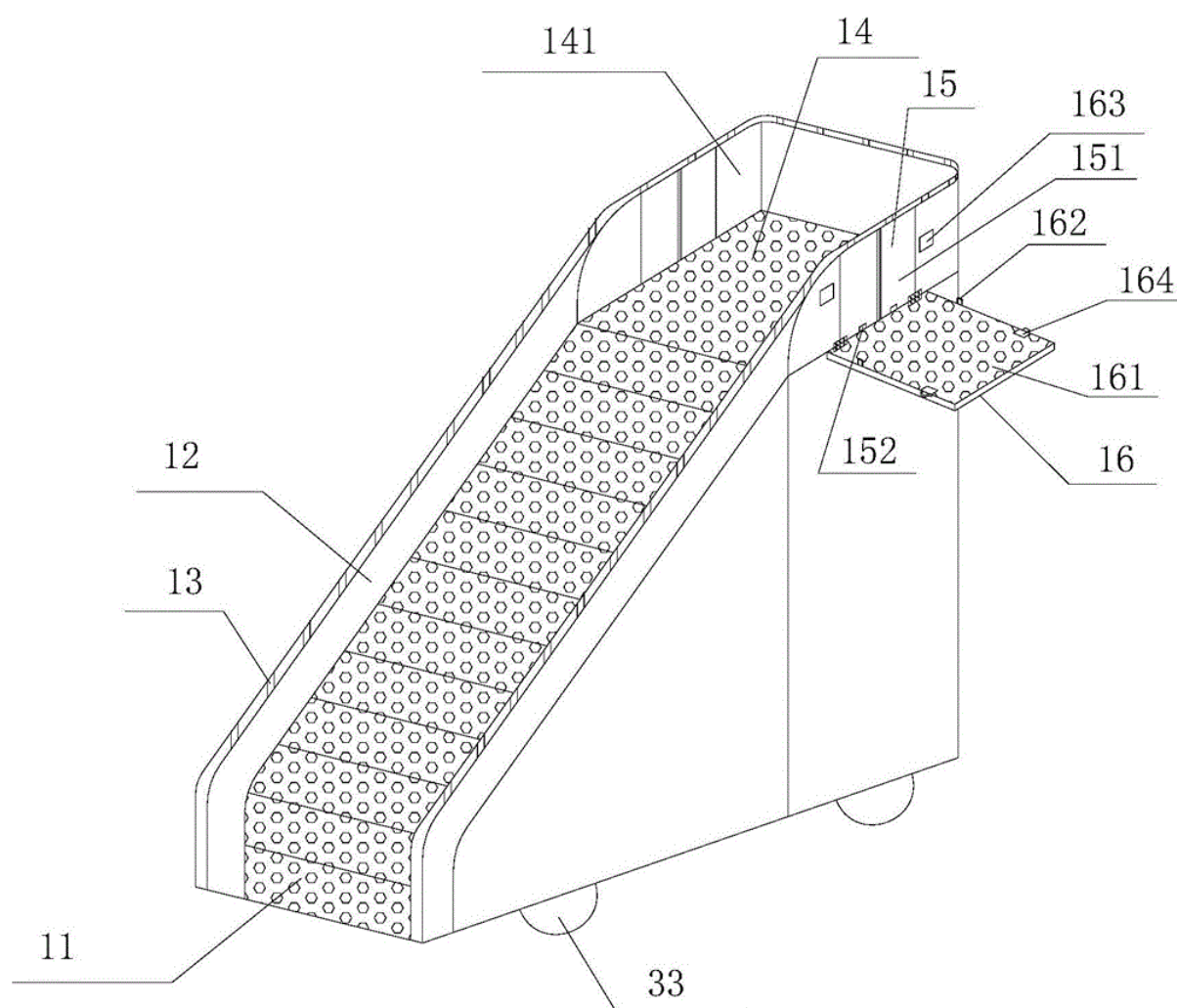
SUQIAN POWER SUPPLY
STATE GRID JIANGSU ELECTRIC POWER
STATE GRID CORPORATION OF CHINA (SGCC)

Family 3/45 - FAMPAT - ©Questel

Title

(CN206220841U)

Car work platform is pedaled to special movable of rail vehicle

Images**Publication data including kind & date**

[CN206220841](#) U 2017-06-06 CN206220841U

**Abstract**

(CN206220841U)

The utility model provides a car work platform is pedaled to special movable of rail vehicle, chassis including platform ladder main part and bottom connection, platform ladder main part includes the stile, chassis top fixed connection the stile,

work platform is connected to the one end of stile, set up the rail around the work platform, all install sliding door on two relative rails, the sliding door outside sets up the footboard, the footboard with work platform swing joint, a plurality of trundle device of the below on chassis installation, both sides set up the channel -section steel, a plurality of elevating gear of channel -section steel below installation. Car work platform is pedaled to special movable of rail vehicle, the trundle device and the elevating gear of setting can remove according to the demand and pedal car work platform with the lift, use flexibility convenient more, the security is stronger, application scope is extensive, staff's work safety has been guaranteed in the handrail, rail and the safety line screens that set up, and is more specialized, humanized.

Inventors

ZHANG BIN

YANG XIN

Latest standardized assignees - inventors removed

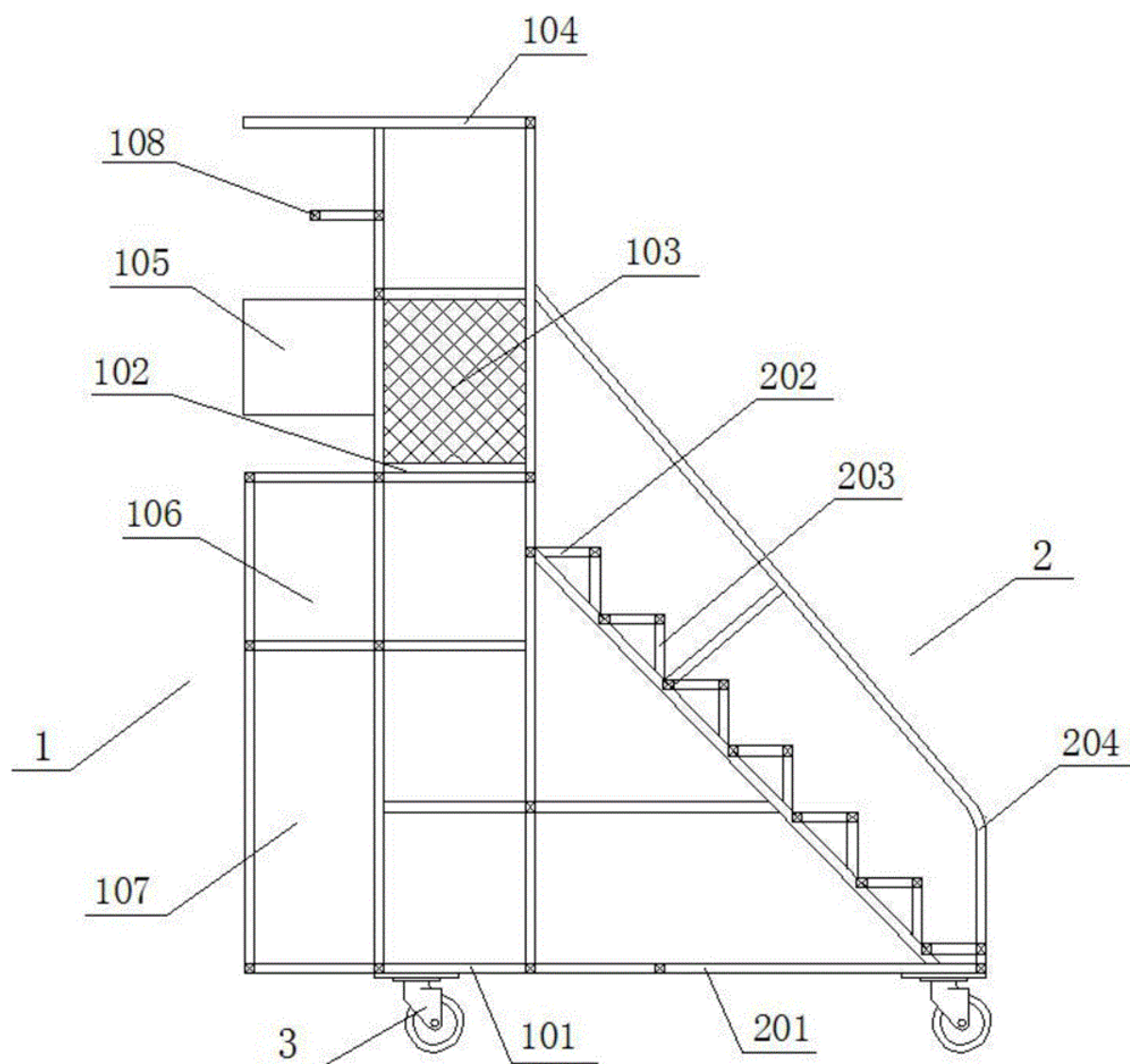
TIANJIN BINDEIXINLI ELECTRONIC SCIENCE & TECHNOLOGY

Family 4/45 - FAMPAT - ©Questel

Title

(CN205840760U)

Passenger train passenger door installation climbing frame

Images**Publication data including kind & date**

CN205840760

U

2016-12-28

CN205840760U

**Abstract**

(CN205840760U)

The utility model discloses a passenger train passenger door installation climbing frame, stepping on the ladder of ascending a height on one side of the high platform including the welding, stepping on high platform and include that the middle part welding has operation platform's support body, the support body has the toolbox with one side welding that the ladder is relative of ascending a height, have long roof beam to place the case and the case is placed to the stub beam in the welding on the support body of toolbox below, the welding has a U type frame on the support body of toolbox top. The utility model discloses set up the ladder of ascending a height stepping on high platform one side, make things convenient for operating personnel to climb climbing frame, step on the high platform opposite side from top to bottom in proper order the welding be used for hanging a U type frame of putting the sticky tape, a case is placed to the stub beam for placing the toolbox of mounting tool and the long roof beam that is used for placing long roof beam are placed the case and are used for placing the stub beam, all kinds of article are placed in order, make things convenient for operating personnel to take at any time at the in -process of installation passenger door, set up the convenient removal of universal wheel bottom climbing frame, moreover, the steam generator is simple in structure, reasonable layout, high durability and convenient use, producing cost is low, the efficiency of the installation of passenger train passenger door is greatly improved.

Inventors

HE PING

QIAN ZHENYU

WU YI

TANG JIAQING

XU XIAOQIANG

Latest standardized assignees - inventors removed

ANHUI ANKAI AUTOMOBILE

Family 5/45 - FAMPAT - ©Questel

Title

(WO2016200248)

Movable ladder

Images

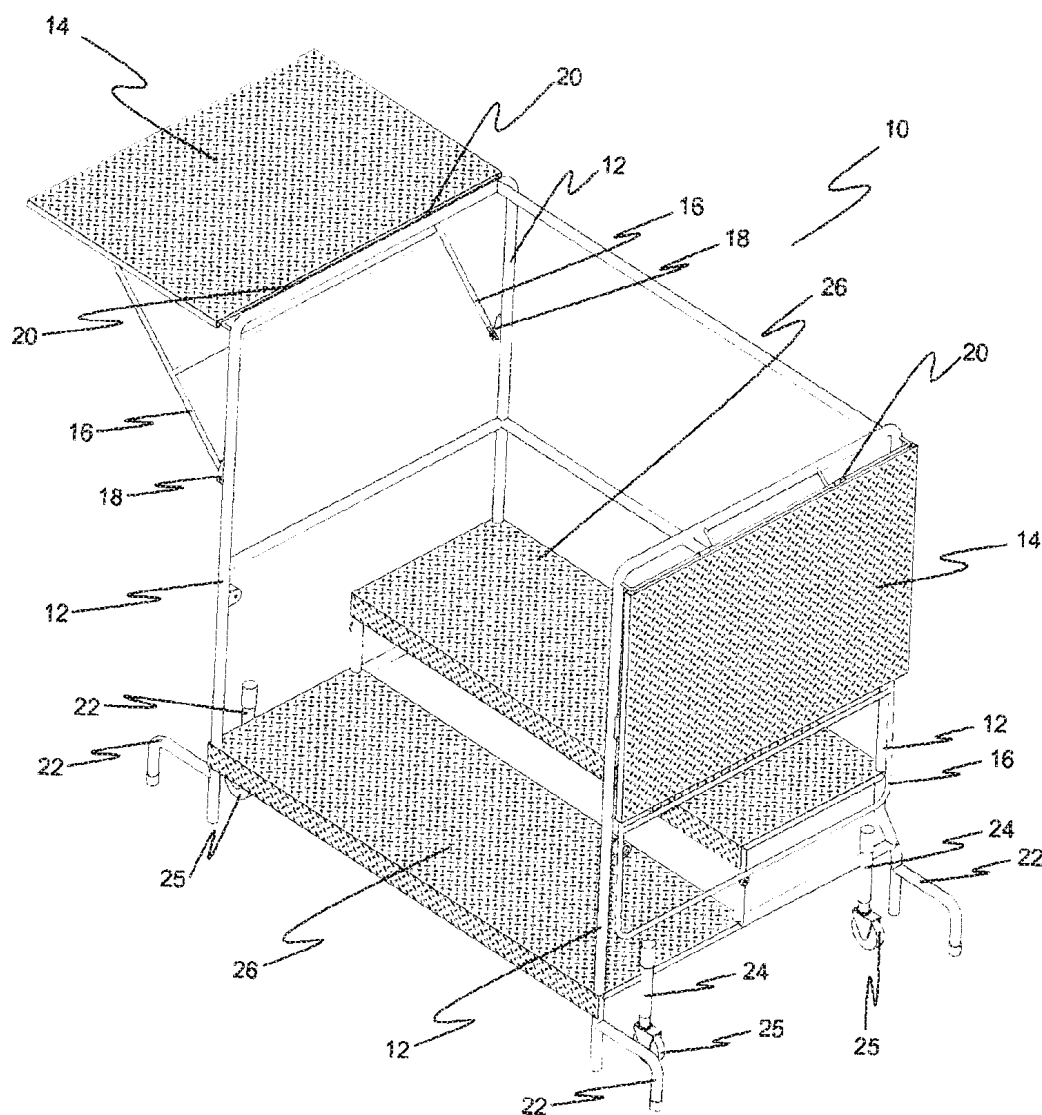


FIG. 1

Publication data including kind & date

CA2988954

A1 2016-12-15

CA2988954

WO2016200248

A1 2016-12-15

WO2016200248

UY4591

U 2016-12-30

UY---4591U



Abstract

(WO2016200248)

Disclosed is a movable ladder formed by a structural element composed of a rear part and two sides, the lower part of the vertical structural elements of the ladder terminating in lateral projections in the form of an inverted "U" that provide the ladder with reliable support on the floor. The ladder is characterised in that it is provided with two collapsible lateral platforms and four wheels that can be raised or lowered to facilitate the movement of the ladder toward the work area.

Inventors

AGUILUZ FLORES ARMANDO ISRAEL

Latest standardized assignees - inventors removed

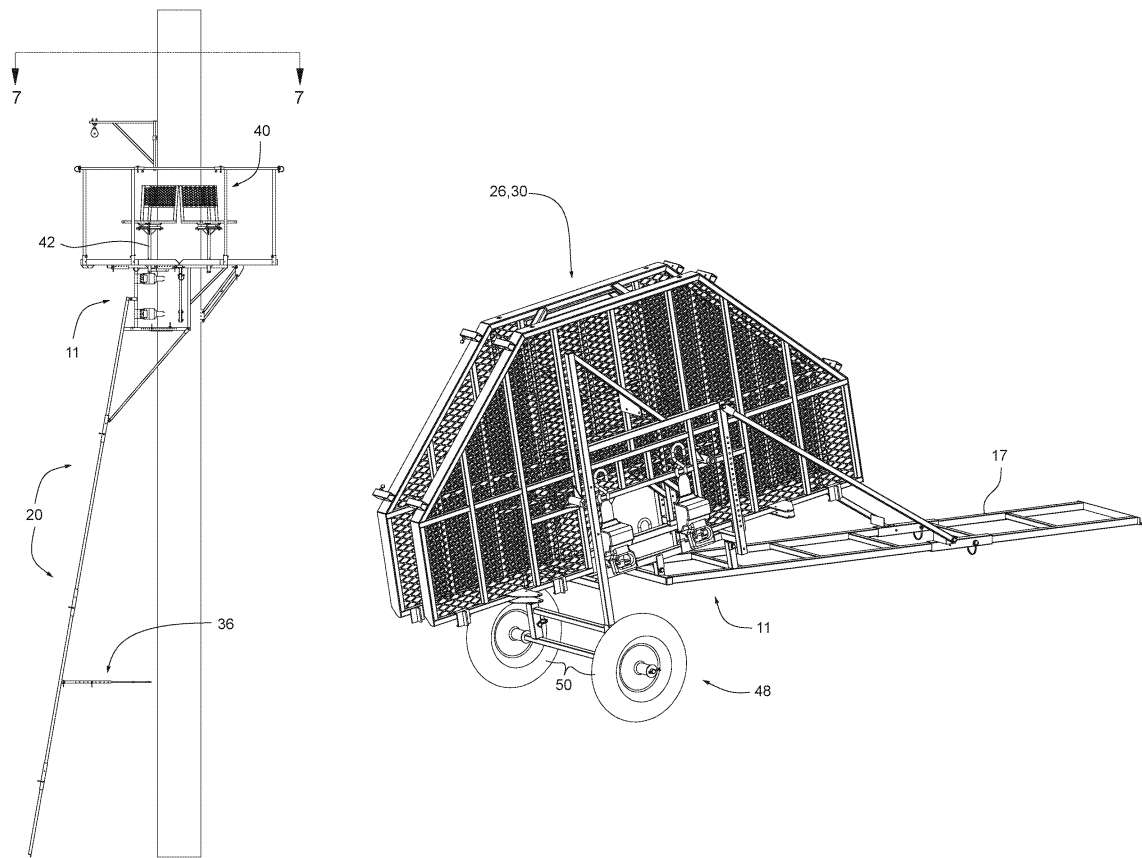
GRUPO BIMBO

Family 6/45 - FAMPAT - ©Questel

Title

(US9832989)

Octagon portable tree platform

Images**Publication data including kind & date**[US2016330951](#)

A1 2016-11-17

US20160330951

[US9832989](#)

B2 2017-12-05

US9832989

**Abstract**

(US9832989)

A portable multi-use platform that is capable of providing 360 degree views for multiple persons safely and securely without interfering with each individuals comfort space. The platform can be easily set up and taken down and transported to different locations using a detachable wheeled frame assembly. The applications of this platform are not limited solely to hunting but can be used in numerous activities such as "zip-line" type sports, photography and video applications, utility pole climbing professions, as well as military and police operations. This platform solves the problem of partial views, limited occupants, and the transportation over terrain to and from site. It also addresses the issue of attaching to a plurality of various tree sizes with a sliding floor attachment system as well as a possible problem of tree lean and leveling with the use of a sliding "biter" system.

Inventors

HILLIS MINIS R

KESSLER RICHARD D

MOULTON MICHAEL R

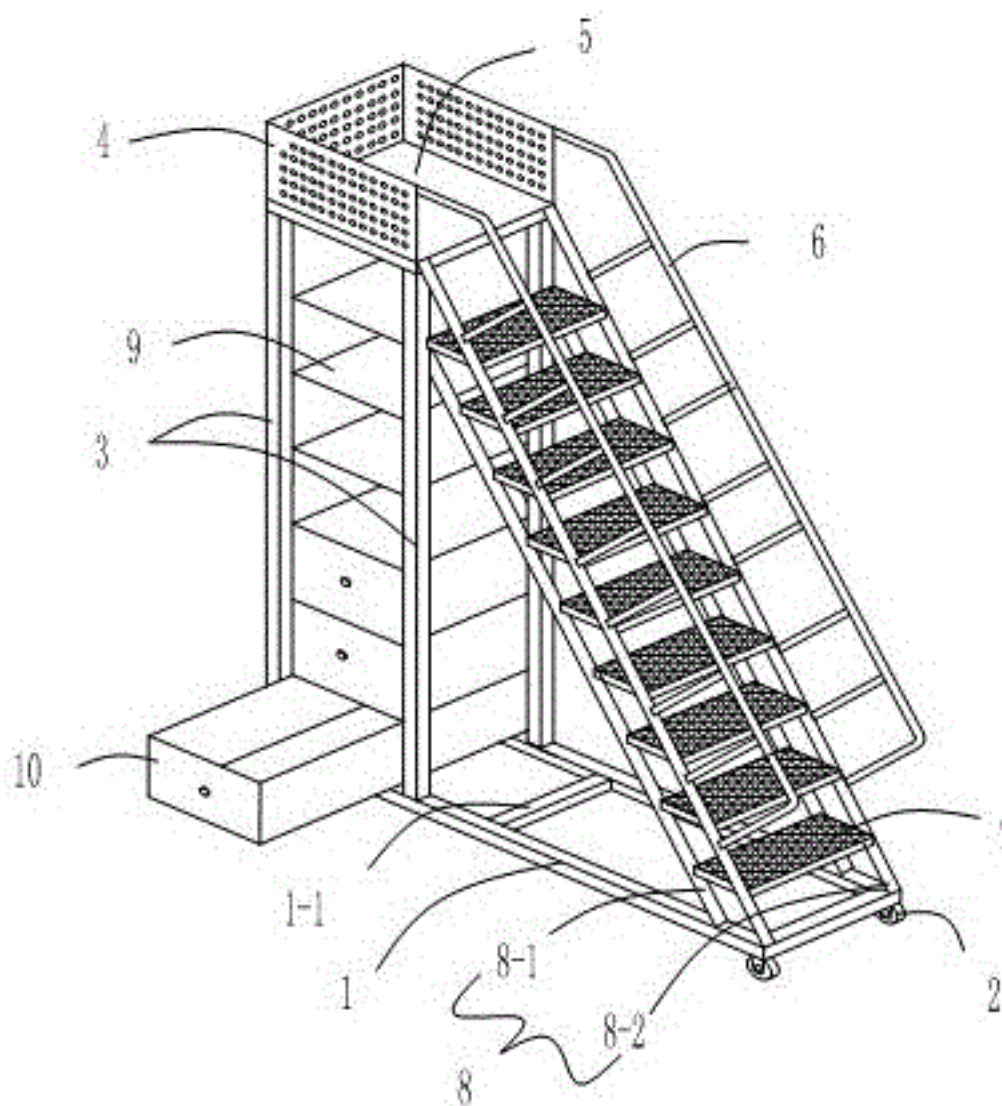
Family 7/45 - FAMPAT - ©Questel

Title

(CN205663405U)

Convenient emergency staircase that removes

Images



Publication data including kind & date

[CN205663405](#)

U

2016-10-26

CN205663405U



Abstract

(CN205663405U)

The utility model discloses a convenient emergency staircase that removes relates to ladder technical field, the utility model discloses an underframe frame, underframe frame for square frame, underframe frame lower extreme four corners department all is provided with the removal gyro wheel, underframe frame top is provided with work platform, work platform be the rectangular plate, the support column with end frame attach is located all to be provided with in work platform below four corners, the thing board is put to first section equidistant polyolith level that is provided with between four support columns, second section is provided with a plurality of drawers that are used for storing the instrument between four support columns, work platform be located the one end top of underframe frame, the slope is provided with the ladder subassembly between the underframe frame other end and the work platform, the ladder subassembly all is provided with safety railing including the left mounting bracket and the right mounting bracket that are parallel to each other and incline to set up on left mounting bracket and the right mounting bracket, the work platform edge be provided with safety shield, the utility model discloses the knot has and constructs simple, when removing labour saving and time saving and the high advantage of security performance.

Inventors

LIU HUA

Latest standardized assignees - inventors removed

footboard by lower supreme progressively lifting height on the support body, the line of all step footboards extends to supporting platform by the lower extreme slope of support body, the lower extreme of support body has a plurality of supporting legs, go back sliding connection on the support body by the vertical connecting rod of a plurality of, the lower extreme of every connecting rod has all set firmly the gyro wheel, it is equipped with the spring still to overlap on the connecting rod, the both ends of spring are used in on support body and the connecting rod respectively and the spring can make the height that highly is less than the supporting legs of gyro wheel, it holds up hand rack still to have set firmly on the support body. The utility model discloses in have four supporting legss and can fall to the ground fast, can not roll or rock, the security is high. While can promote convenient and fast through the gyro wheel of bottom again when needing to remove.

Inventors

BAO LILI

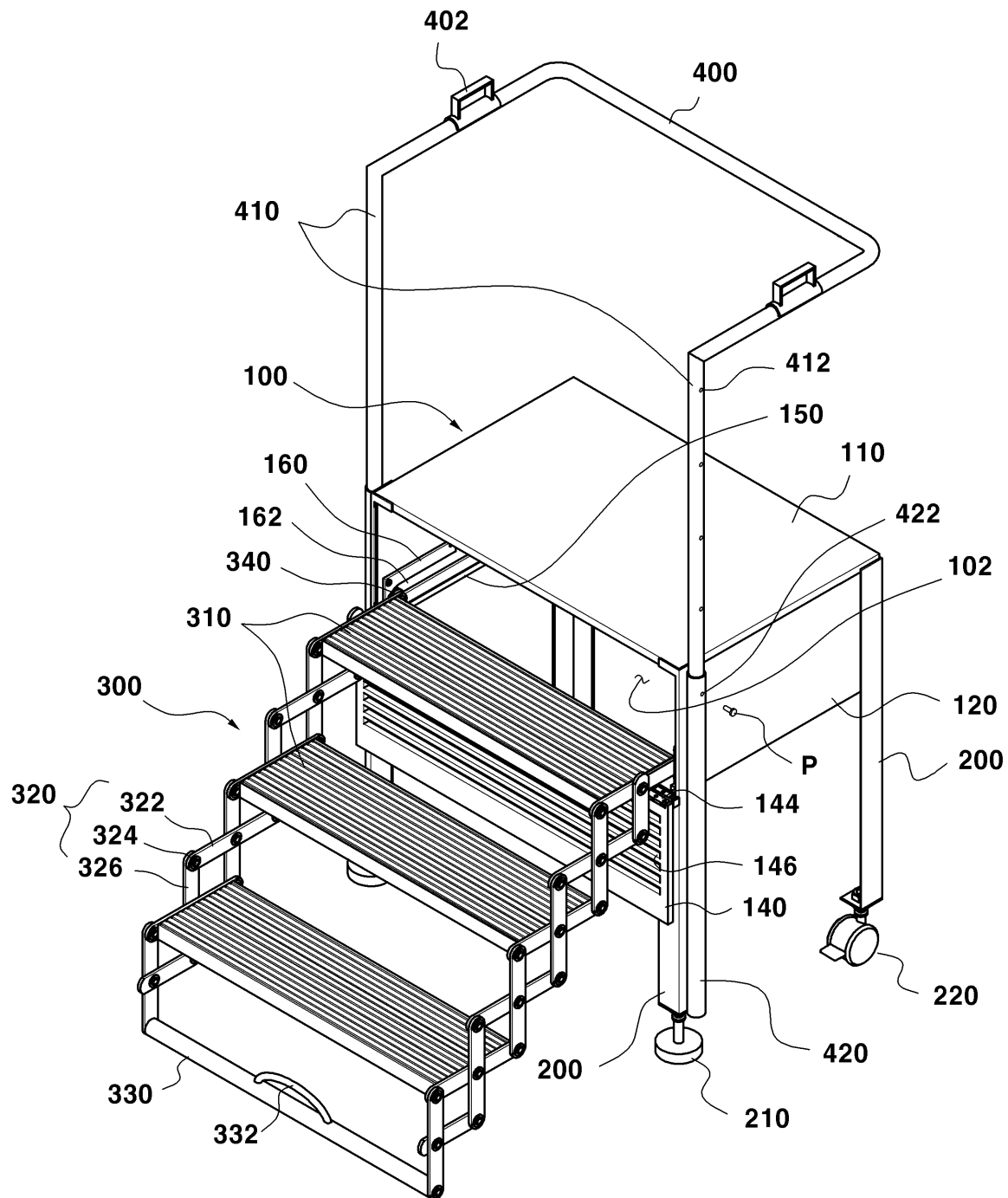
Family 9/45 - FAMPAT - ©Questel

Title

(KR101648967)

Folding footrest type safety ladder

Images

**Publication data including kind & date**

KR101648967

B1 2016-08-17 KR101648967

**Abstract**

(KR101648967)

The present invention discloses a footrest type foldable safety ladder having a structure in which when foldable stairs, not in use, are pushed into a staircase receiving space formed within a platform box, the safety ladder may be folded to be kept in storage, and when the foldable stairs are pulled out to be used, the foldable stairs are unfolded and installed in front of the platform box. Since the foldable stairs are unfolded when in use, and folded to be kept in the staircase receiving space when not in use, an overall volume of the footrest type foldable safety ladder can be reduced. Also, when a handle is not used, the handle may be inserted into a bar insertion pipe and kept therein, an overall height can be also reduced. The footrest type foldable safety ladder can be easily carried and transferred and does not occupy a large space when kept.

Inventors

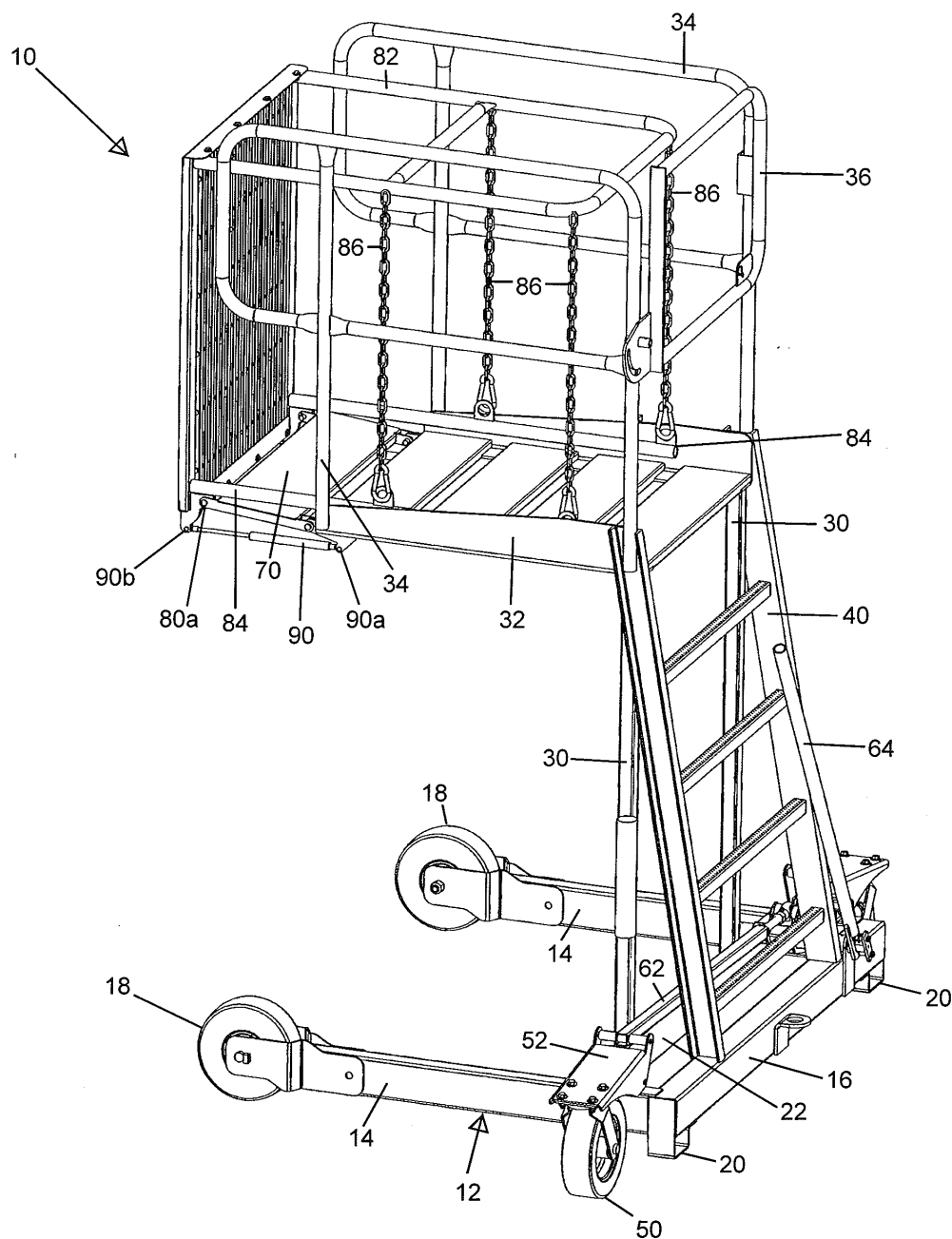
CHO KYU SUN

Family 10/45 - FAMPAT - ©Questel

Title

(US20160138338)

Bi-Level Work Platform for ISO Tanks

Images**Publication data including kind & date**[US2016138338](#)

A1 2016-05-19

US20160138338

**Abstract**

(US20160138338)

A bi-level work platform includes a landing vertically spaced from and cantilever supported above a U-shaped base. A folding platform is pivotally connected to the landing by a pivotal platform and by gas struts. The folding platform is pivotable between a storage condition within the maximum extent of the landing and the pivotal platform and an operating condition

extending from and generally parallel to the landing. The base is movable by rollers at the free ends of legs of the U-shaped base and by retractable casters which are pivotally mounted to the U-shaped base. Removable fall protection is provided on the folding platform including removable flaccid members and is pivotally received between the guide rails of the landing in the storage condition.

Inventors

OLSON ROBERT JAMES

Latest standardized assignees - inventors removed

GARLOCK SAFETY SYSTEMS

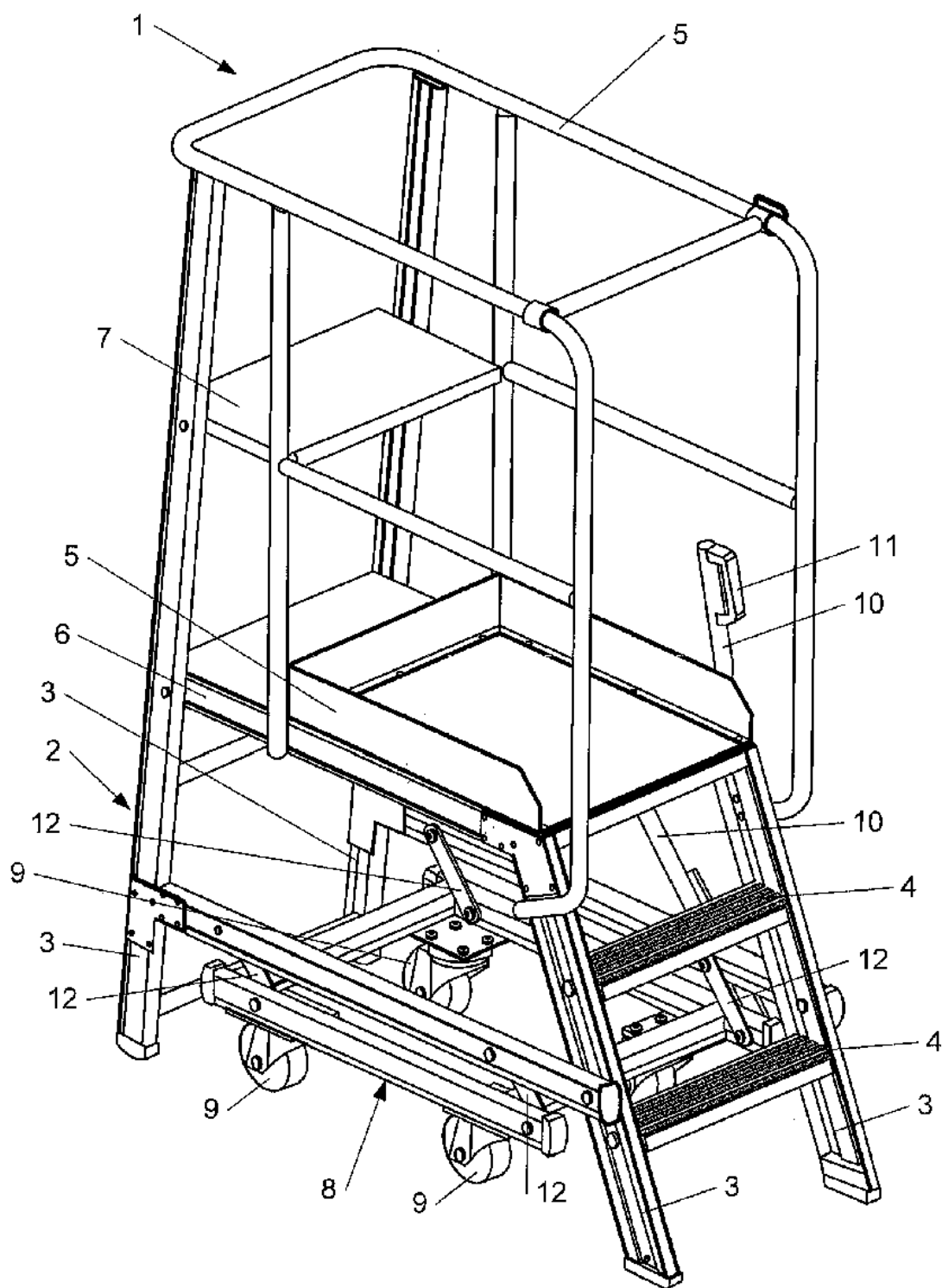
Family 11/45 - FAMPAT - ©Questel

Title

(EP2949541)

Rolling platform ladder

Images

**Fig. 1****Publication data including kind & date**[EP2949541](#)

A1 2015-12-02

EP2949541

**Abstract**

(EP2949541)

The invention provides a rolling platform ladder (1) comprising a platform ladder part (2) having legs (3) for engaging with the ground and an undercarriage part (8) having wheels (9) for rolling on the ground. Both are movably fixed to each other such that the platform ladder part (2) is raisable, thereby lifting the legs (3) from the ground and enabling the ladder (1) to roll on the wheels (9). The ladder (1) comprises a lifting mechanism with a lever arm (10) for manually lifting the platform ladder part (2) from a lowered condition with the legs (3) on the ground to a raised condition with raised legs (3) and the ladder (1) supporting on the wheels (9). In the raised condition a grip (11) of the lever arm (10) is positioned against an

elevated part of the platform ladder part (2), which are grippable with one hand for rolling the ladder (1). Upon release of the lever arm (10) the platform ladder part (2) is moved to the lowered condition.

Inventors

DAS TOM

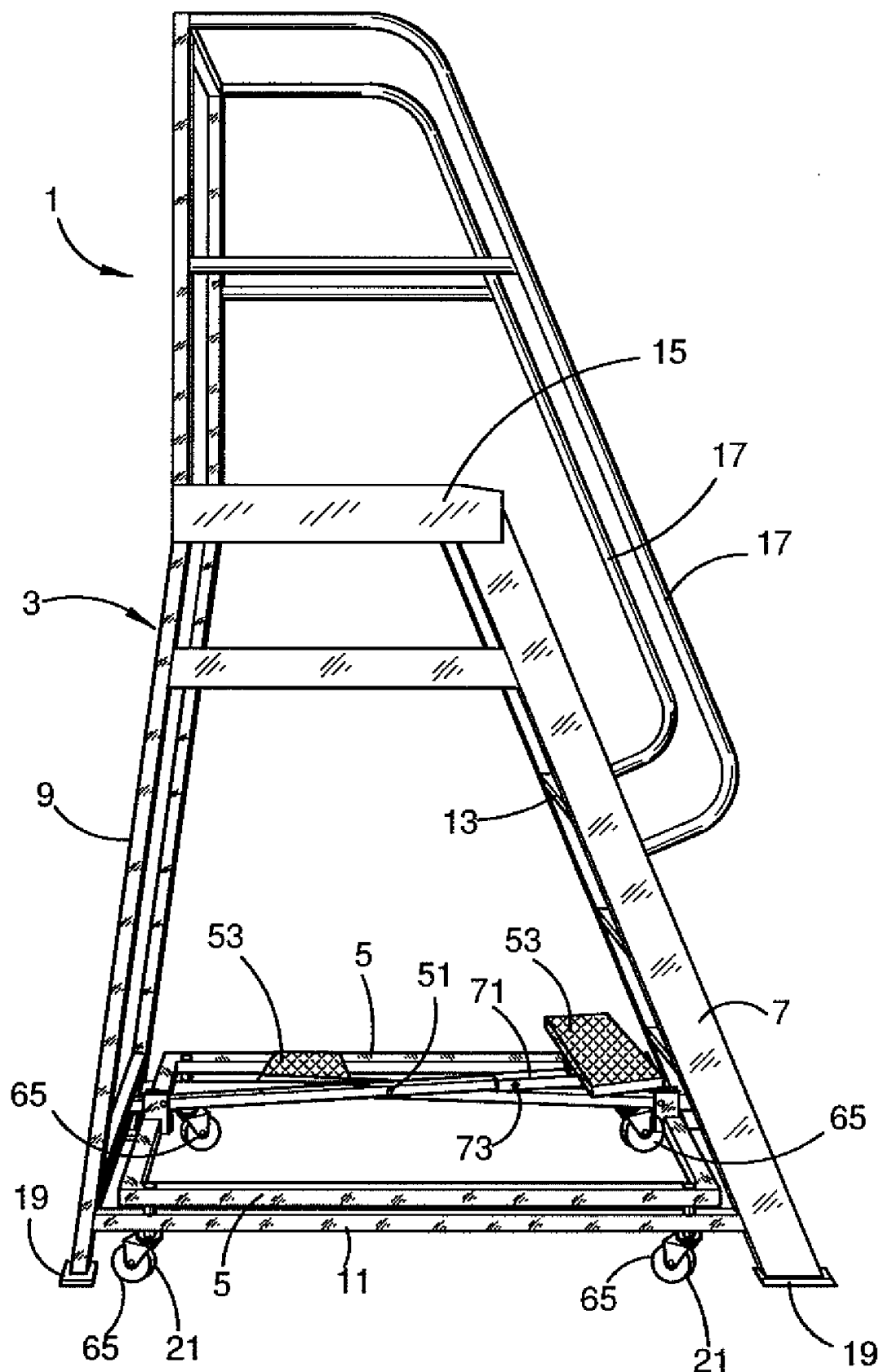
Family 12/45 - FAMPAT - ©Questel

Title

(US20080093166)

Rolling or skidding platform ladder

Images



Publication data including kind & date

[US2008093166](#)

A1 2008-04-24

US20080093166



Abstract

(US20080093166)

A rolling or skidding platform ladder 1 is provided that has a platform ladder part 3 and an undercarriage part 5. The undercarriage part 5 carries ground engaging parts 21 to enable rolling or skidding of the ladder 1. The platform ladder part 3 has legs 7/9 which are raisable with the platform ladder part 3 to elevate the bottom of the legs 7/9 spaced from the

ground when the platform ladder 1 is to be rolled or skidded. The undercarriage part 5 comprises a lever arm 29 that is pivoted thereto in a see-saw manner so as to extend generally parallel with the ground. One end of the lever arm 29 is for co-operating with the ladder part 3 to raise at least two legs of the ladder part 3 relative to the undercarriage part 5 so that the rolling ladder 1 can then be rolled or skidded without the at least two raised legs engaging the ground.

Inventors

FROLIK DANNY

JACOBSEN SCOTT

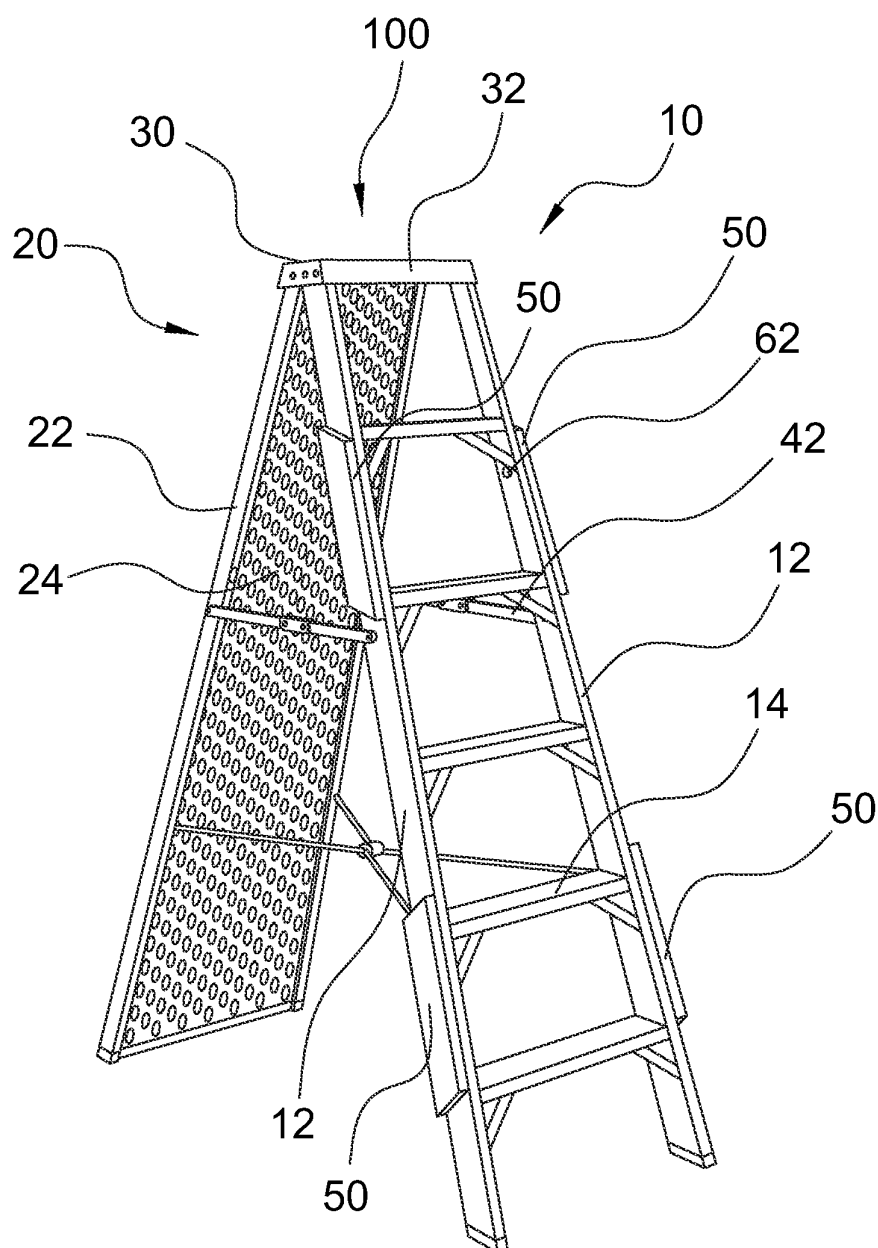
Family 13/45 - FAMPAT - ©Questel

Title

(US20150267469)

Ladder Plank

Images



Publication data including kind & date

US2015267469

A1 2015-09-24

US20150267469



Abstract

(US20150267469)

The present invention is a multi-purpose ladder. It is a fully functional approximately 6 feet step ladder which most people have, and it also serves as a 6 feet platform when laid horizontally that will extend approximately 12-18 inches off the floor. The invention is useful when a person needs to reach higher than they can reach with both feet on the ground such as working on the ceiling or the top of the wall (painting) or doing trim and crown molding. It is also useful when moving a ladder every couple of feet gets tedious and time consuming. The ladder plank of the present invention allows people to cover more space with less moving of the ladder.

Inventors

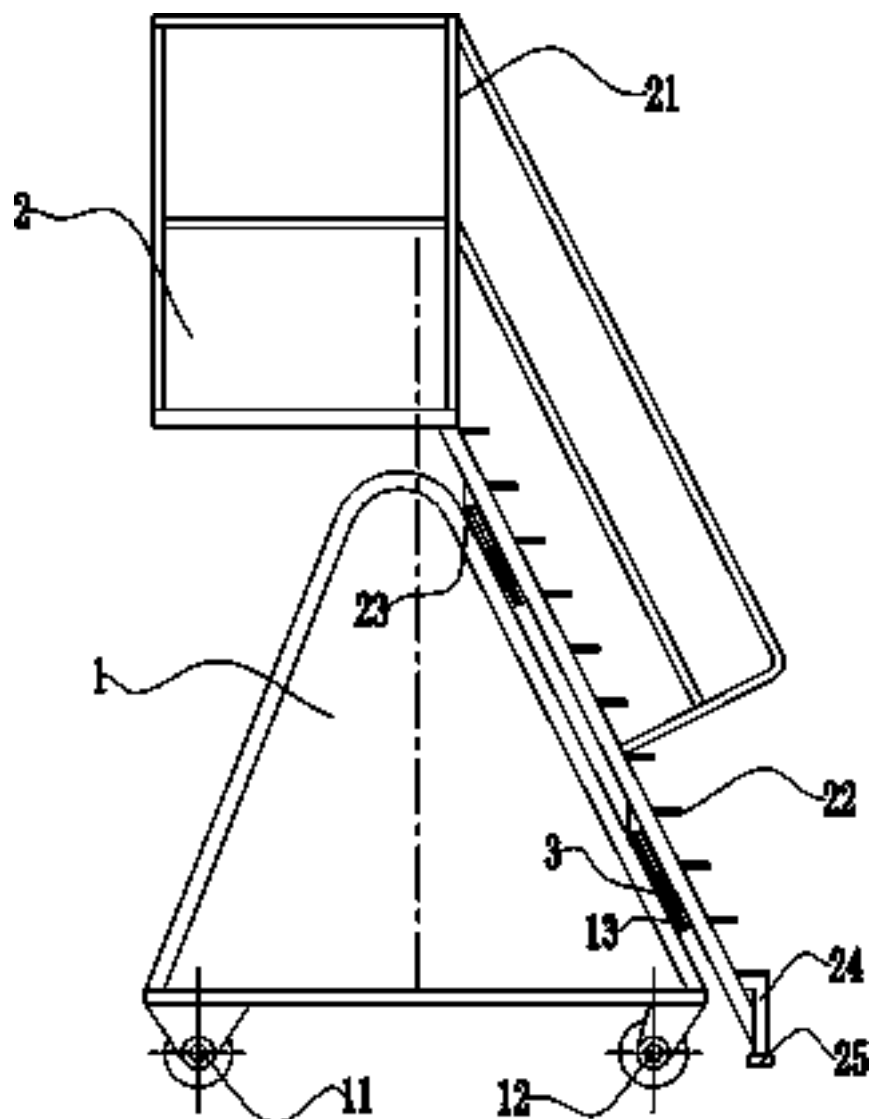
MARKUSEN JOE

Family 14/45 - FAMPAT - ©Questel

Title

(CN204283197U)

Automatically braked step ladder

Images**Publication data including kind & date**

CN204283197

U 2015-04-22 CN204283197U

**Abstract**

(CN204283197U)

The utility model discloses an automatically braked step ladder which is composed of a supporting part (1), a working part (2) and a spring (3) and is characterized in that the spring (3) is arranged in a guide cylinder (13) on the supporting part (1), a guide pillar (23) on the working part (2) is inserted in inner holes of the guide cylinder (13) and the spring (3), and when

the weight on the working part (2) is increased, the spring (3) is compressed, and the working part (2) moves downwards along the guide cylinder, so that a rubber sleeve (25) on a brake leg (24) is in contact with the ground, then friction is produced, and a braking effect is achieved. The automatically braked step ladder disclosed by the utility model has the beneficial effects of being convenient to move, safe in use, and low in production cost; and compared with other similar ladders, the automatically braked step ladder has more advantages and is an upgrading product of other similar tools.

Inventors

LI SANJI

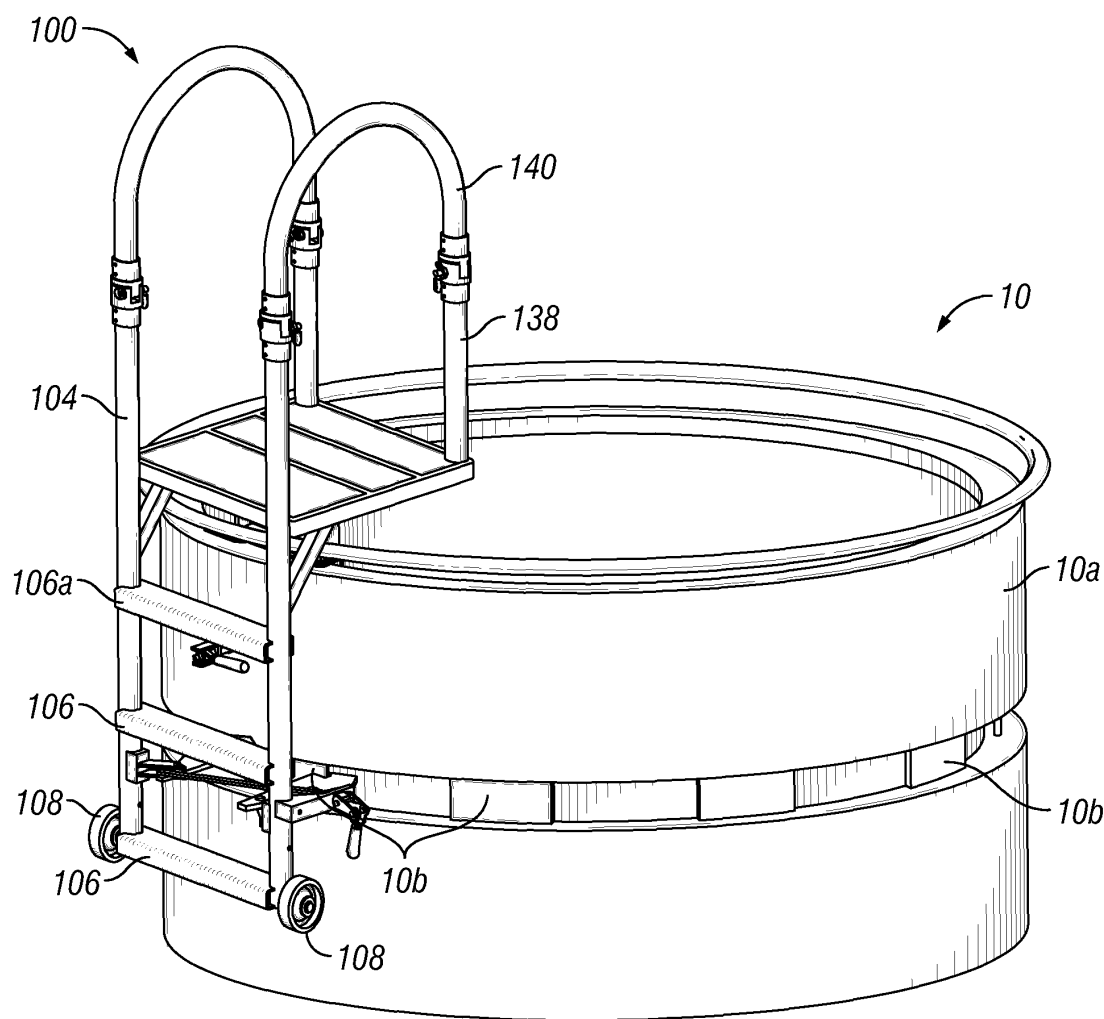
Family 15/45 - FAMPAT - ©Questel

Title

(EP3033468)

Custom mold press ladder

Images



Publication data including kind & date

WO2015023527	A2	2015-02-19	WO201523527
WO2015023527	A3	2015-11-05	WO201523527
CN105408572	A	2016-03-16	CN105408572
US2016108671	A1	2016-04-21	US20160108671
EP3033468	A2	2016-06-22	EP3033468
US9500028	B2	2016-11-22	US9500028
EP3033468	A4	2017-03-22	EP3033468
CN105408572	B	2017-06-09	CN105408572B



Abstract

(EP3033468)

A ladder that employs an existing custom mold press frame to support itself thereon is provided along with a method of installation. A clamping engagement system employed by such a ladder is also provided along with a kit for installing the ladder with a mold press frame.

Inventors

CALE ANDREW STEPHEN

Latest standardized assignees - inventors removed

MICHELIN

MICHELIN RECHERCHE & TECHNIQUE

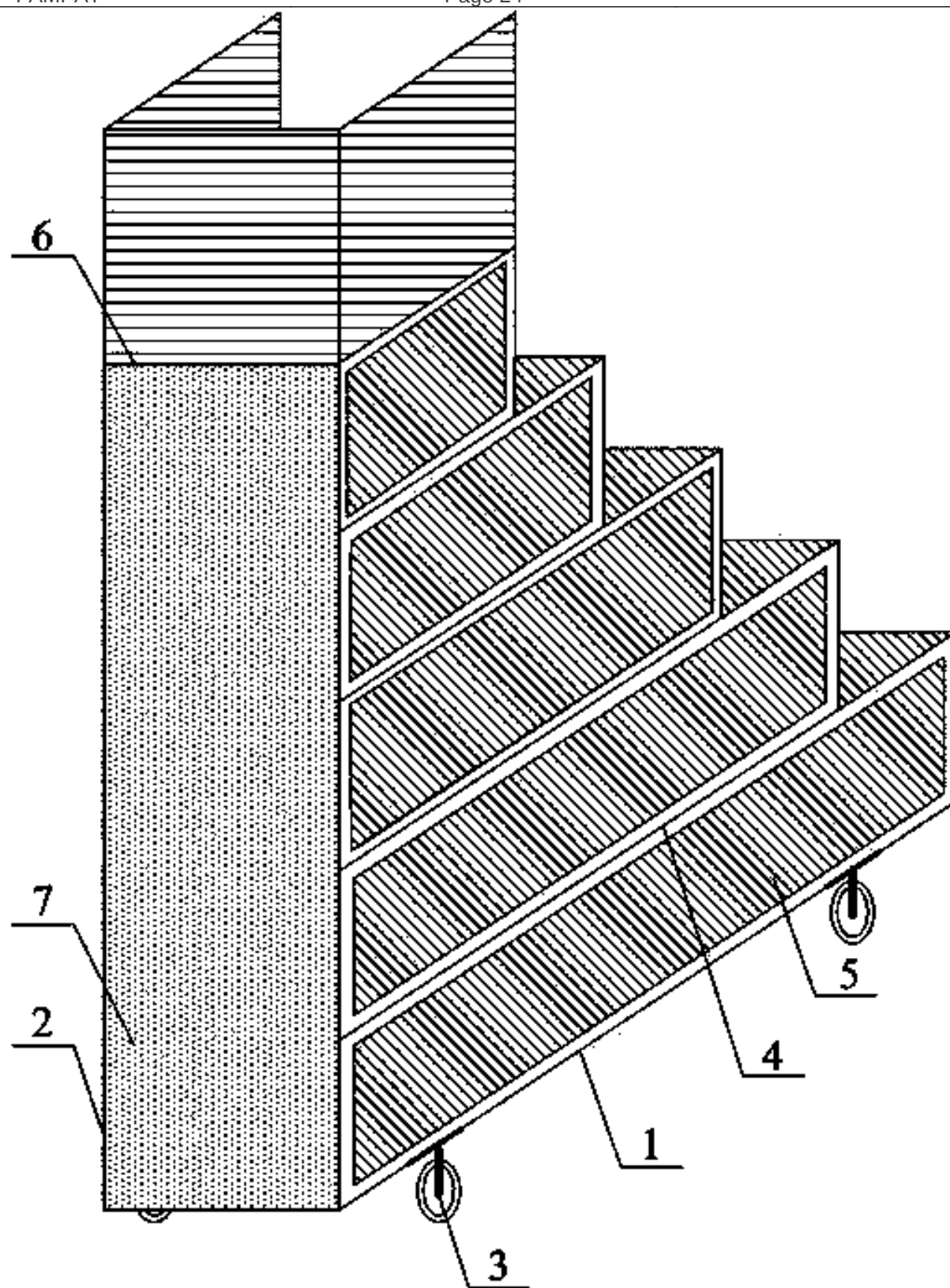
Family 16/45 - FAMPAT - ©Questel

Title

(CN204113098U)

Access ladder for passenger car production workshop

Images

**Publication data including kind & date**[CN204113098](#)

U 2015-01-21 CN204113098U

**Abstract**

(CN204113098U)

The utility model discloses an access ladder for a passenger car production workshop, belonging to the technical field of automobile manufacturing. The access ladder comprises a ladder frame, a plurality of steps, an operating platform and at least four universal wheels, wherein the at least four universal wheels are arranged at the bottom of the ladder frame; and the plurality of steps are reduced layer by layer from bottom to top and are fixedly arranged on the ladder frame, three surfaces of the top step are blocked to form the operating platform, and a storage box is arranged in each step. By adopting the access ladder, the safety in the production process can be greatly improved, potential safety hazards and time waste

caused by the reason that a worker fetches materials and tools up and down in high-altitude operation are reduced, and the production efficiency is obviously improved; and through the universal wheels at the bottom of the access ladder, the access ladder can be moved and fixed at any time and any place, so that the labor intensity of a user is relieved. An elastic anti-collision layer is arranged on a vertical profile surface, so that body damage caused by contact of the access ladder and a passenger car body in use can be prevented.

Inventors

LIN HAILANG

WANG XIANFENG

DUAN SHULIN

YOU HAIHAN

WU JINGJUN

XU QIANG

Latest standardized assignees - inventors removed

NANJING GOLDEN DRAGON BUS

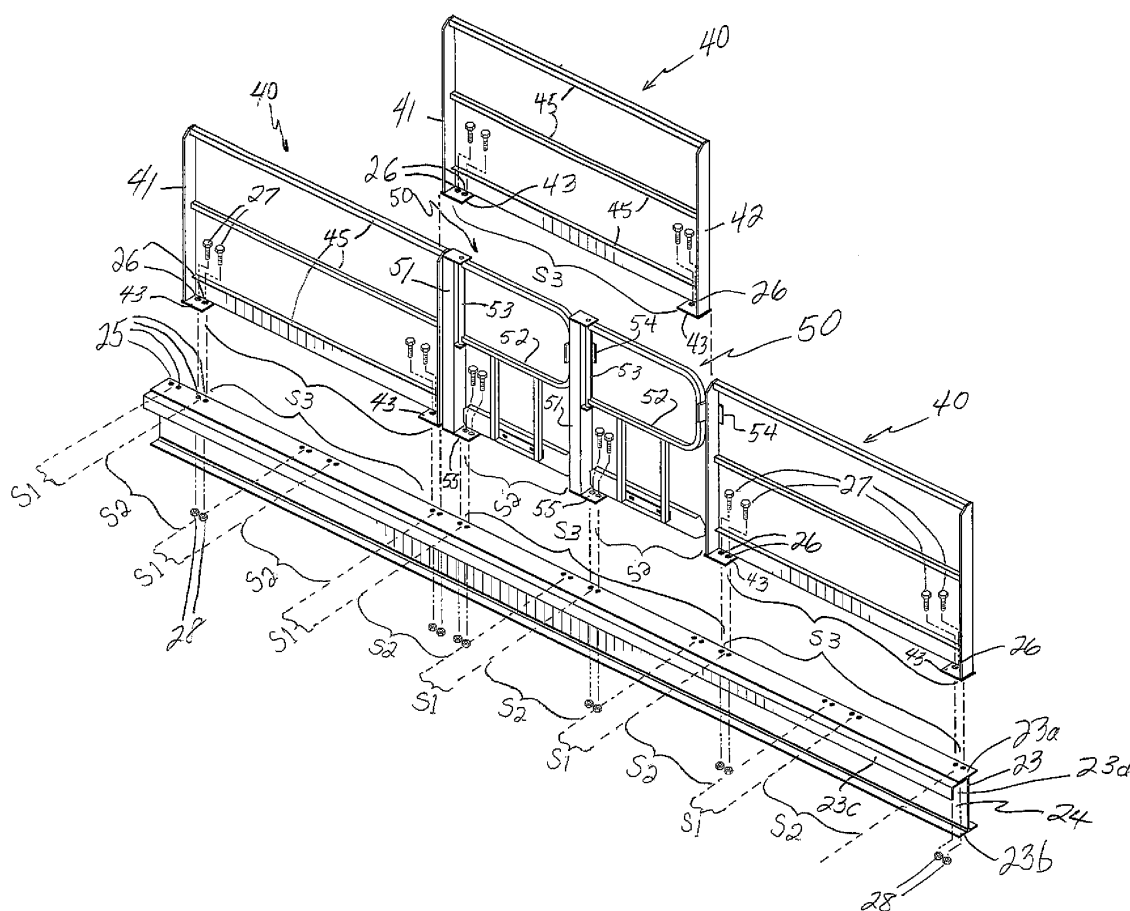
Family 17/45 - FAMPAT - ©Questel

Title

(US9637975)

Adaptable platform for loading and unloading railway cars

Images



Publication data including kind & date

CA2851841

A1 2014-12-17

CA2851841

US2014367195

A1 2014-12-18

US20140367195

US9027712

B2 2015-05-12

US9027712



US2015167327	A1	2015-06-18	US20150167327
US9637975	B2	2017-05-02	US9637975
CA2851841	C	2017-06-13	CA2851841

**Abstract**

(US9637975)

An apparatus that provides a platform for selectively deployable worker access with fall protection to at least a portion of the top of a container disposed above the ground. The apparatus includes a gate and a ladder extension that selectively operates in an extended mode and a retracted mode with respect to the gate and with respect to an emergency egress ladder extending beneath the platform.

Inventors

MELTON ALLAN J

Latest standardized assignees - inventors removed

SAM CARBIS ASSET MAN

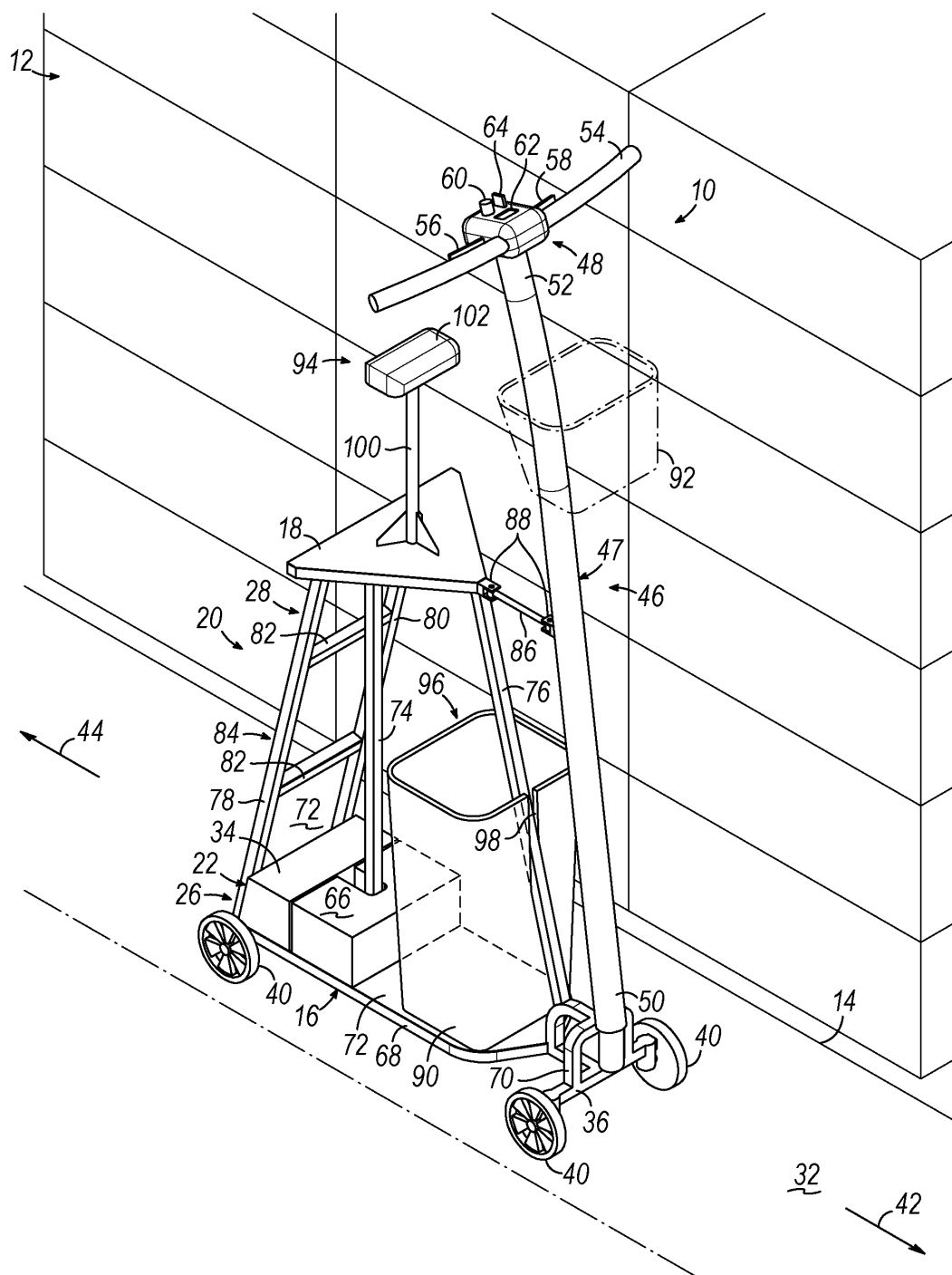
Family 18/45 - FAMPAT - ©Questel

Title

(US9574356)

Vehicle and method for tending to an elevated livestock cage

Images

**Publication data including kind & date**

US2014053665	A1	2014-02-27	US20140053665
US9574356	B2	2017-02-21	US9574356
US2017142938	A1	2017-05-25	US20170142938

**Abstract**

(US9574356)

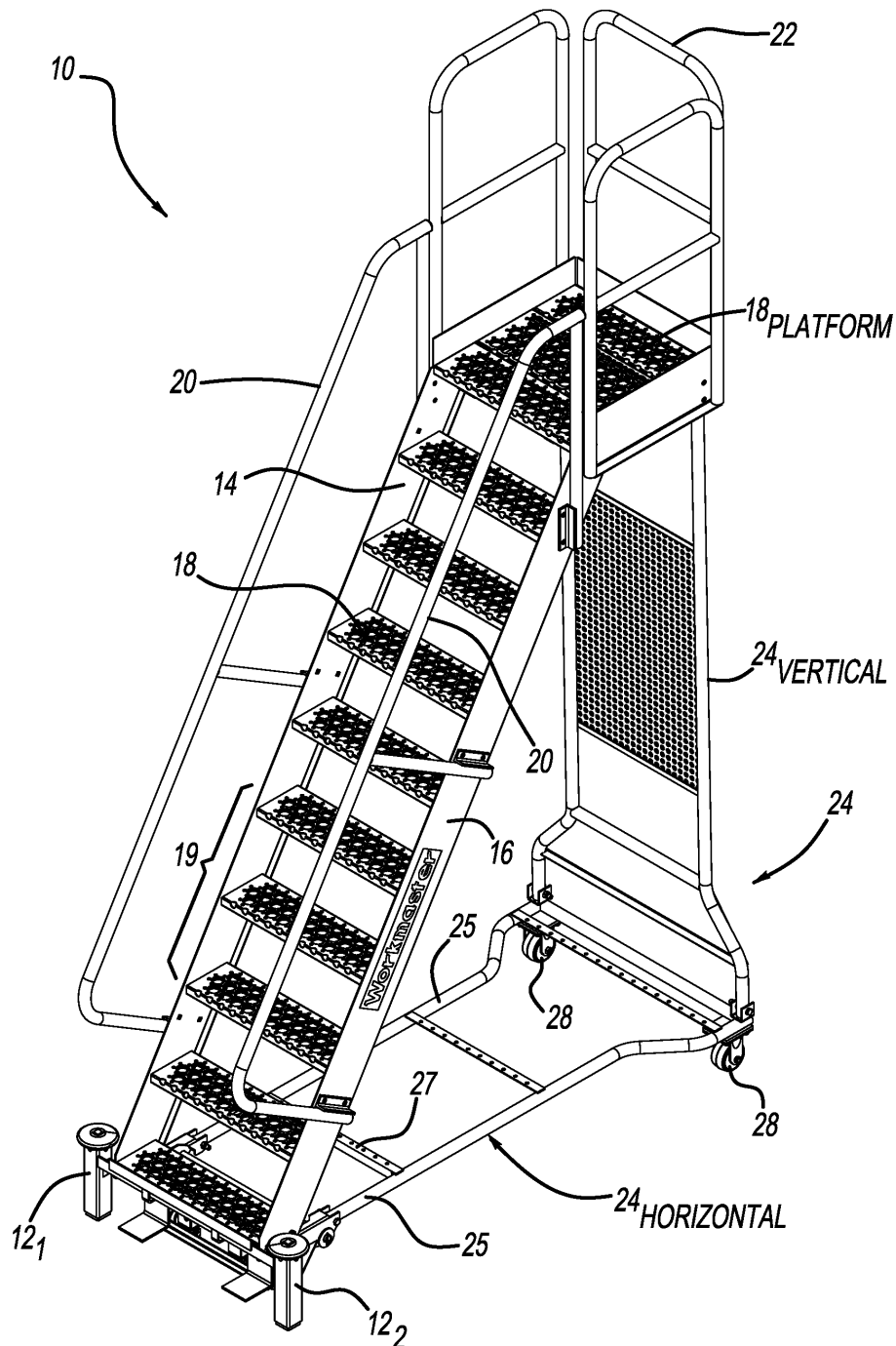
A vehicle and method for tending to an elevated livestock cage includes a support frame, a base, a drive unit, and an elevated platform. The support frame extends upward from the base, and the drive unit is operatively attached to the base for moving the base along the aisle. The elevated platform is affixed to the support frame and is positioned above the base at a height suitable to facilitate access to the elevated livestock cage. The support frame and the elevated platform are configured to support an operator while moving the operator along an aisle of a confinement facility.

Inventors

JUTTE BRIAN ANDREW

CRUISER PRODUCTS

Images



[US2014231171](#)

A1 2014-08-21 US20140231171

[US9206643](#)

B2 2015-12-08 US9206643

**Abstract**

(US9206643)

A rolling ladder includes opposing side members between which a plurality of treads are disposed at predetermined locations to define a ladder. The ladder further includes a support structure coupled to the ladder and including a front wheel support coupled to a plurality of rolling devices. A leg assembly has a user-adjustable length leg, allowing the user to extend or retract either leg to accommodate uneven or irregular floor surfaces. The leg length may also be adjusted to allow for wear in the material of the leg. A lock mechanism is responsive to user actuation and is configured to move the rolling devices from a rolling position to a retracted position, wherein the leg of the leg assembly contacts the floor to thereby inhibit movement of the ladder.

Inventors

KERR JAMES F

VALORE NICHOLAS J

Latest standardized assignees - inventors removed

MATERIAL CONTROL

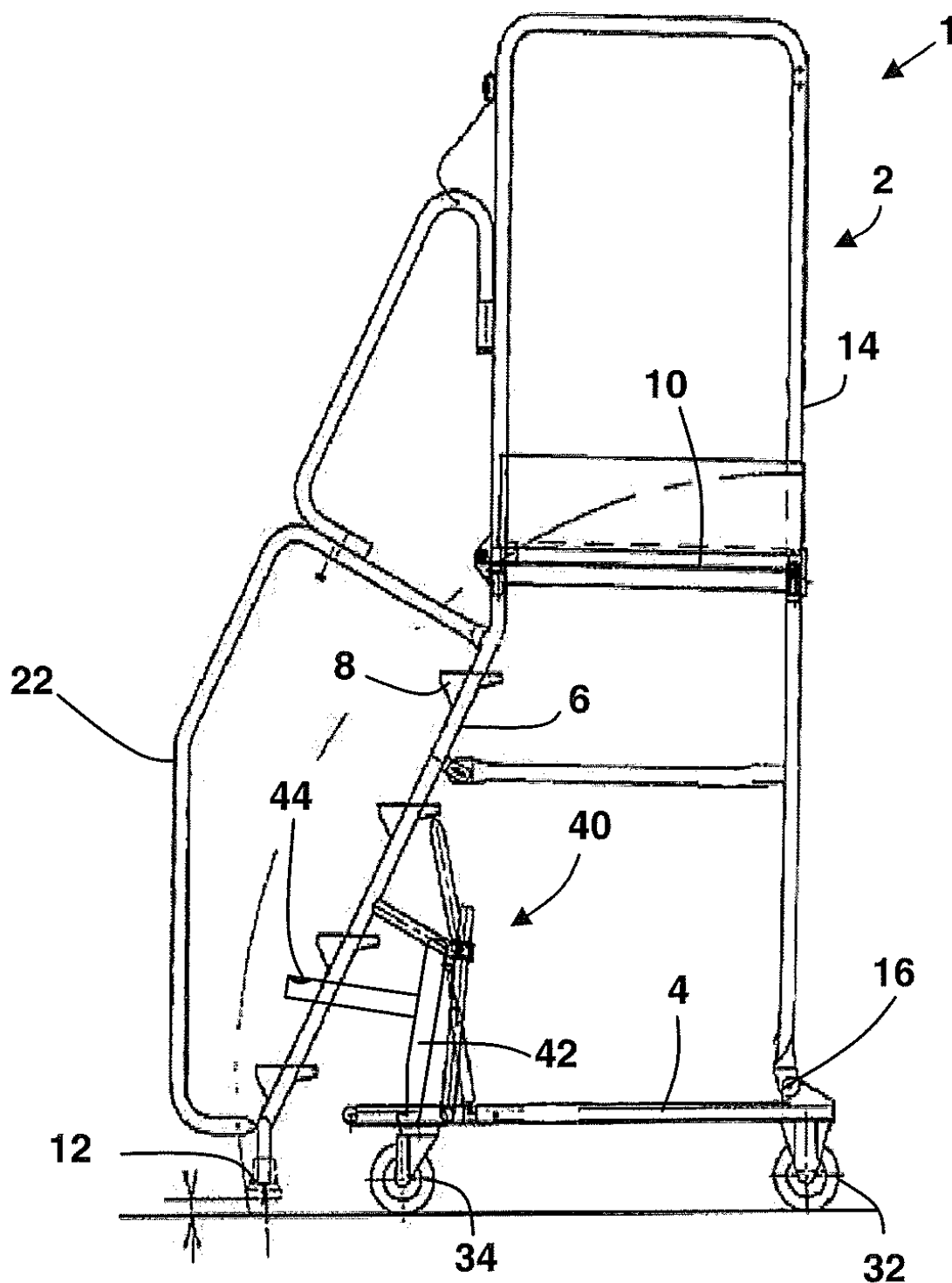
Family 20/45 - FAMPAT - ©Questel

Title

(FR3001757)

Rolling stool for use in shelves of stores, has locking system for automatically locking upper structure in lower position relative to carriage when upper structure is mounted by operator, and releasing unit actuated by operator

Images



Publication data including kind & date

FR3001757	A1	2014-08-08	FR3001757
FR3001757	B1	2015-12-18	FR3001757



Abstract

(FR3001757)

The stool (1) has an upper structure (2) comprising steps (8), and a carriage (4) equipped with rollers (32, 34) and a movable connection. A rubber band (40) is supported on the carriage by applying a permanent upward force on the upper structure for lifting the carriage when the carriage is empty. A locking system (42) automatically locks the upper structure in a lower position relative to the carriage when the upper structure is mounted by an operator. A releasing unit is actuated by the operator, and the movable connection comprises pivots (16) arranged on a side of the carriage.

Inventors

BAILLET MICHEL

Latest standardized assignees - inventors removed

FIMM

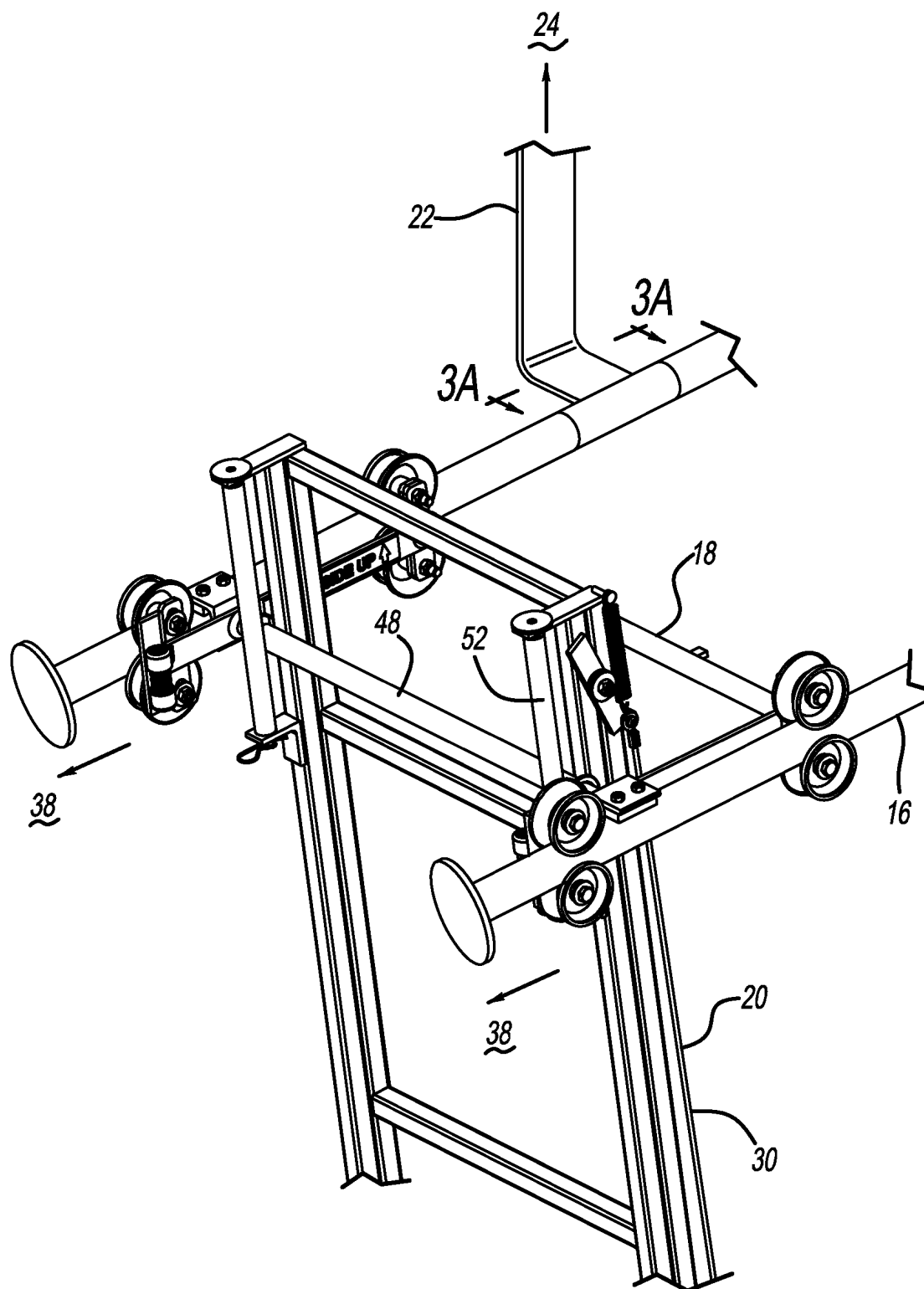
Family 21/45 - FAMPAT - ©Questel

Title

(US9051779)

Dual track ladder for use with mobile shelving

Images



[US2013248285](#)

A1 2013-09-26 US20130248285

[US9051779](#)

B2 2015-06-09 US9051779

**Abstract**

(US9051779)

A ladder assembly for use with movable shelving is disclosed. The ladder assembly may comprise an overhead track assembly, a carriage, and a ladder. The overhead track assembly includes a first guide track and a second guide track. The carriage is operatively configured to move longitudinally along the first and second guide tracks. The ladder is pivotally and slidably mounted to the carriage. The ladder has an operating position and a stored position. The operating position is located in an open available aisle of the movable shelving. The stored position may be located substantially vertical and outside of the aisle of the movable shelving allowing the movable shelving to close the aisle without interference from the ladder.

Inventors

KERR JAMES F

Latest standardized assignees - inventors removed

MATERIAL CONTROL

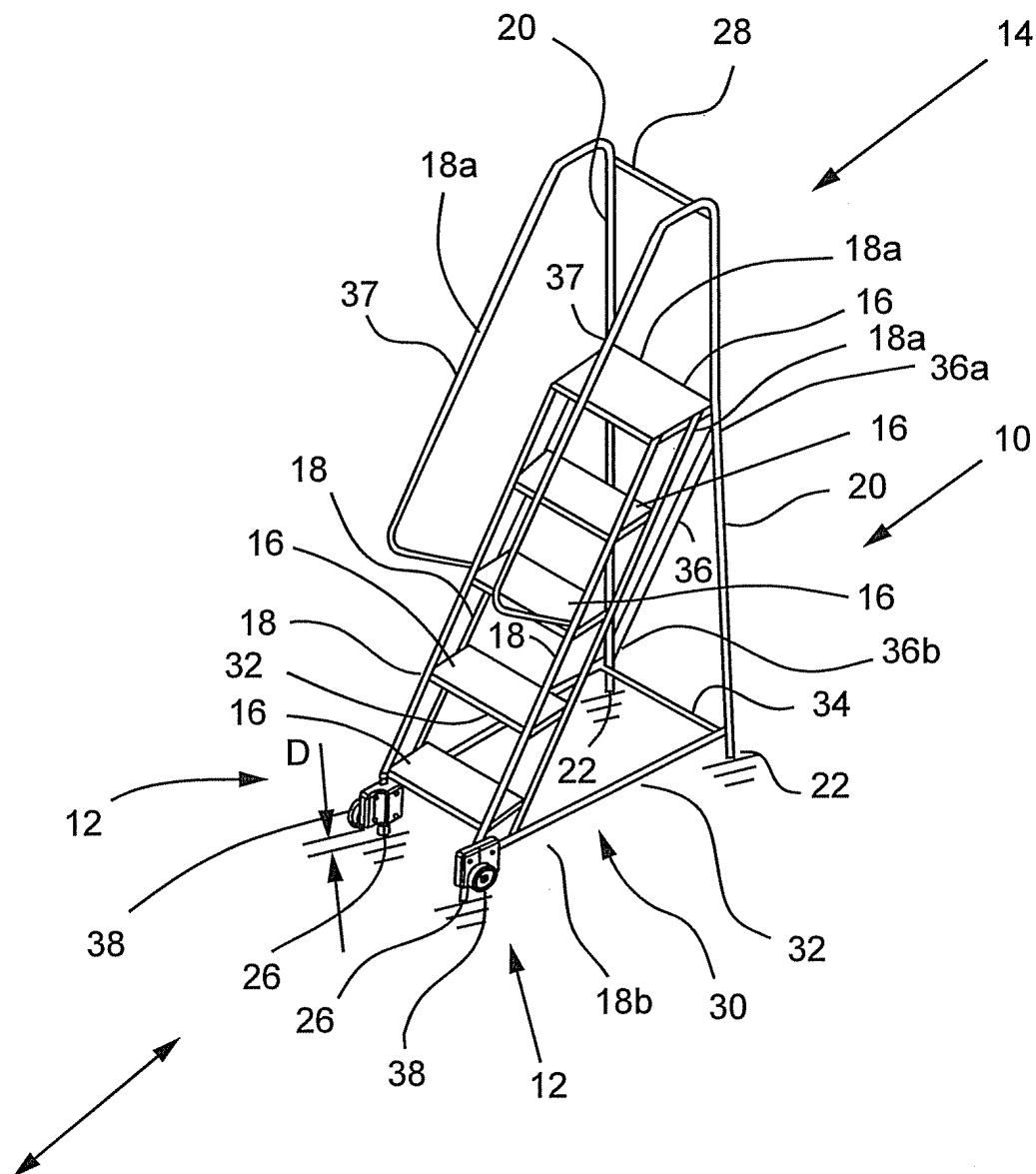
Family 22/45 - FAMPAT - ©Questel

Title

(US20080121462)

Tilt Forward Ladder

Images

**Publication data including kind & date**[US2008121462](#)

A1 2008-05-29

US20080121462

**Abstract**

(US20080121462)

A wheel assembly for a ladder stand having a vertical support and an adjacent longitudinal side member and including a first plate and a second plate mounted around the vertical support and the adjacent longitudinal side member of the ladder stand to form a housing and a wheel secured to the housing. An existing ladder stand with front and rear vertical supports can be converted into a tilt and roll ladder stand by mounting a wheel assembly to each of the front vertical supports. An activated position involves tilting the ladder stand such that the wheels of the wheel assemblies engage the ground so that the ladder can be moved and a deactivated position involves tilting the ladder stand in an opposite direction such that the wheels disengage the ground and the front and rear feet of the ladder stand contact the ground.

Inventors

PUCEK ERIC

RESCINITI TIMOTHY

Latest standardized assignees - inventors removed

MELFRED

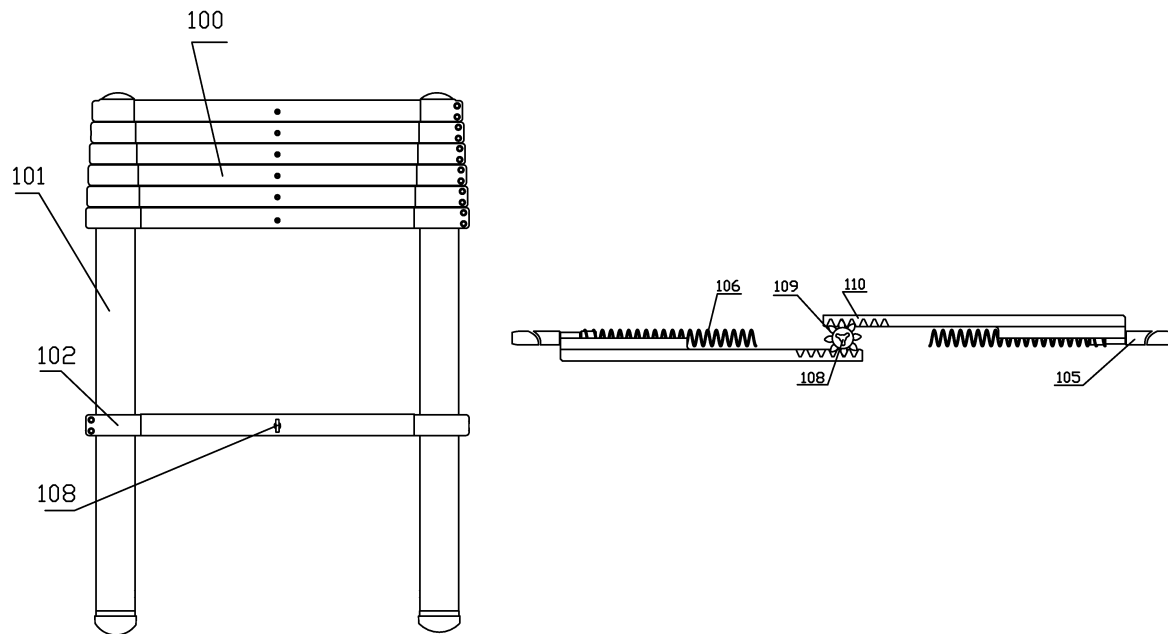
Family 23/45 - FAMPAT - ©Questel

Title

(EP2169175)

An extension ladder and its use in a straight combination ladder, a platform ladder or a stepladder

Images



Publication data including kind & date

CN101050687	A	2007-10-10	CN101050687
WO2008141513	A1	2008-11-27	WO2008141513
EP2169175	A1	2010-03-31	EP2169175
US2010133041	A1	2010-06-03	US20100133041
CN101050687	B	2011-02-23	CN101050687B
US8011475	B2	2011-09-06	US8011475



Abstract

(EP2169175)

An extension ladder (100), including multiple ladder sections vertically fit to each other, each ladder section including a pair of columns (101) disposed on both sides thereof and a rung (102) connected thereto, diameters of the columns (101) on both sides increasing from the top to the bottom, a pair of pin holes being disposed on the column (101) and engaged to a latch gear (104) in the rung (102). The latch gear (104) includes a pair of drive wheels (109, 111), a pair of transmission parts (110, 112), and a pair of pins (105) disposed on both ends thereof. A self-locking part (106) is disposed on the pin (105). Rotation of the drive wheels (109, 111) drives the pins (105) to move axially via the transmission parts (110, 112). Multiple extension ladders can form a vertical ladder, a step ladder, or a platform ladder.

Inventors

WANG KECHENG

Latest standardized assignees - inventors removed

TIANJIN KELIN MOLD TECHNIC

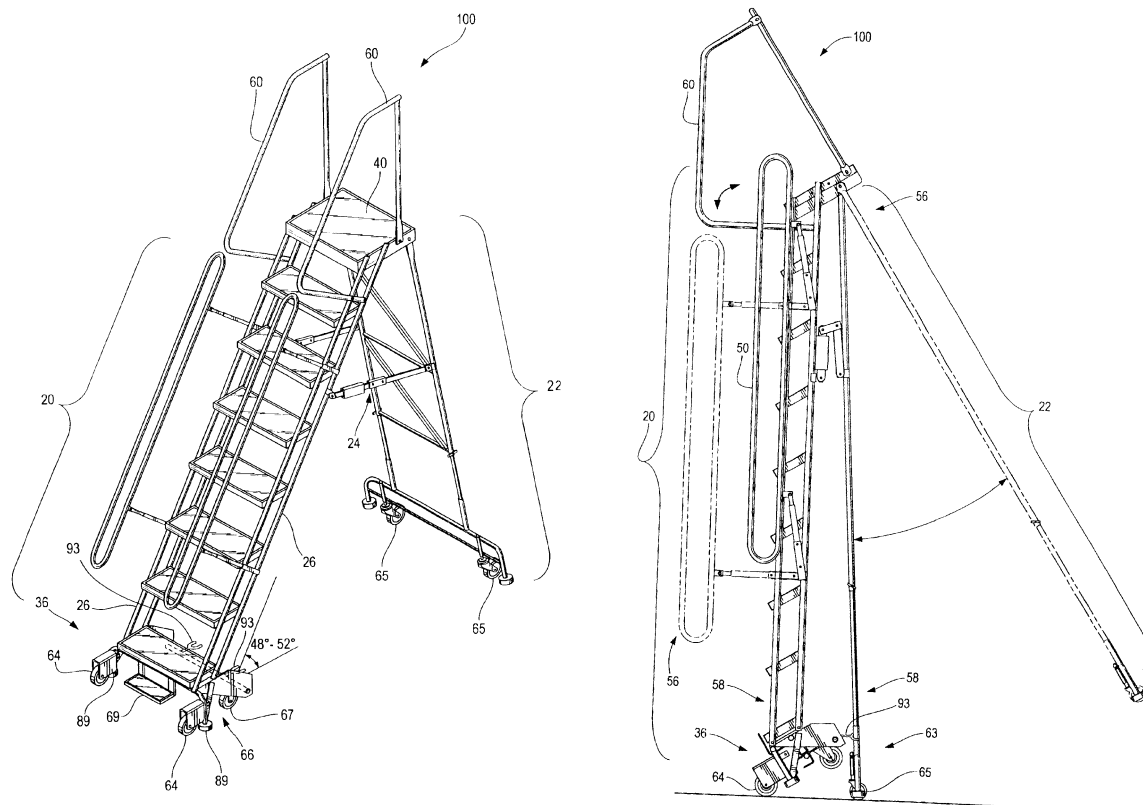
Family 24/45 - FAMPAT - ©Questel

Title

(US6951265)

Foldable stairway ladder

Images

**Publication data including kind & date**

US2005029048	A1	2005-02-10	US20050029048
US6951265	B2	2005-10-04	US6951265

**Abstract**

(US6951265)

A foldable stairway ladder for use in accessing items includes a structure that can be conveniently folded to reduce the amount of space taken up by ladder when not in use. The ladder consists of a stairway section connected to a platform, in turn rotatably connected to a support. The foldable ladder is also provided with a manually operable folding system adapted to fold the stairway section and support relative to each other. Additionally, the support may have a member capable of extending the length of the support, thus facilitating the ease by which a use can fold the stairway ladder.

Inventors

FRAME WILLIAM F
KUEHL GERALD E

Latest standardized assignees - inventors removed

BALLYMORE

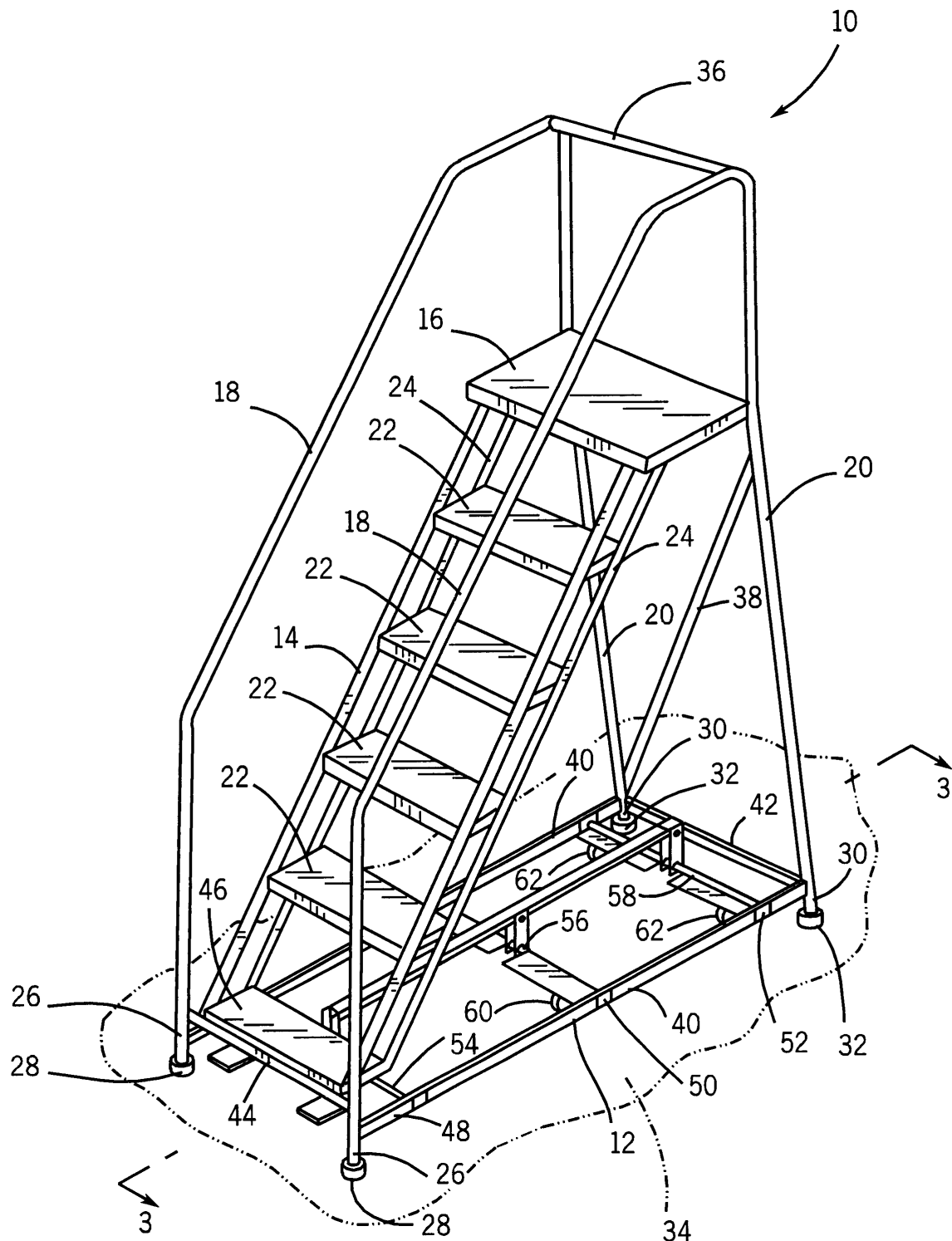
Family 25/45 - FAMPAT - ©Questel

Title

(US6523640)

Undercarriage for mobile ladders and platforms

Images

**Publication data including kind & date**

US6523640

B1 2003-02-25 US6523640

**Abstract**

(US6523640)

An undercarriage for a mobile ladder stand or other similar warehouse apparatus includes a pair of retractable wheels located at the rear of the undercarriage frame and a pair of retractable wheels located at the middle of the undercarriage frame. When the wheels are retracted, the structure is supported by a pair of legs and foot pads located at the front of the undercarriage frame and another pair of legs and foot pads located at the rear of the undercarriage frame. When the wheels are extended, the structure is supported on the ground surface for rolling by the middle and rear wheels. The rear wheels are preferably mounted on swivel casters and the diameter of the middle pair of wheels is preferably greater than the diameter of the rear pair of wheels.

Inventors

YOUNG DAVID T

KACZOR SCOTT E

Latest standardized assignees - inventors removed

EGA PRODUCTS

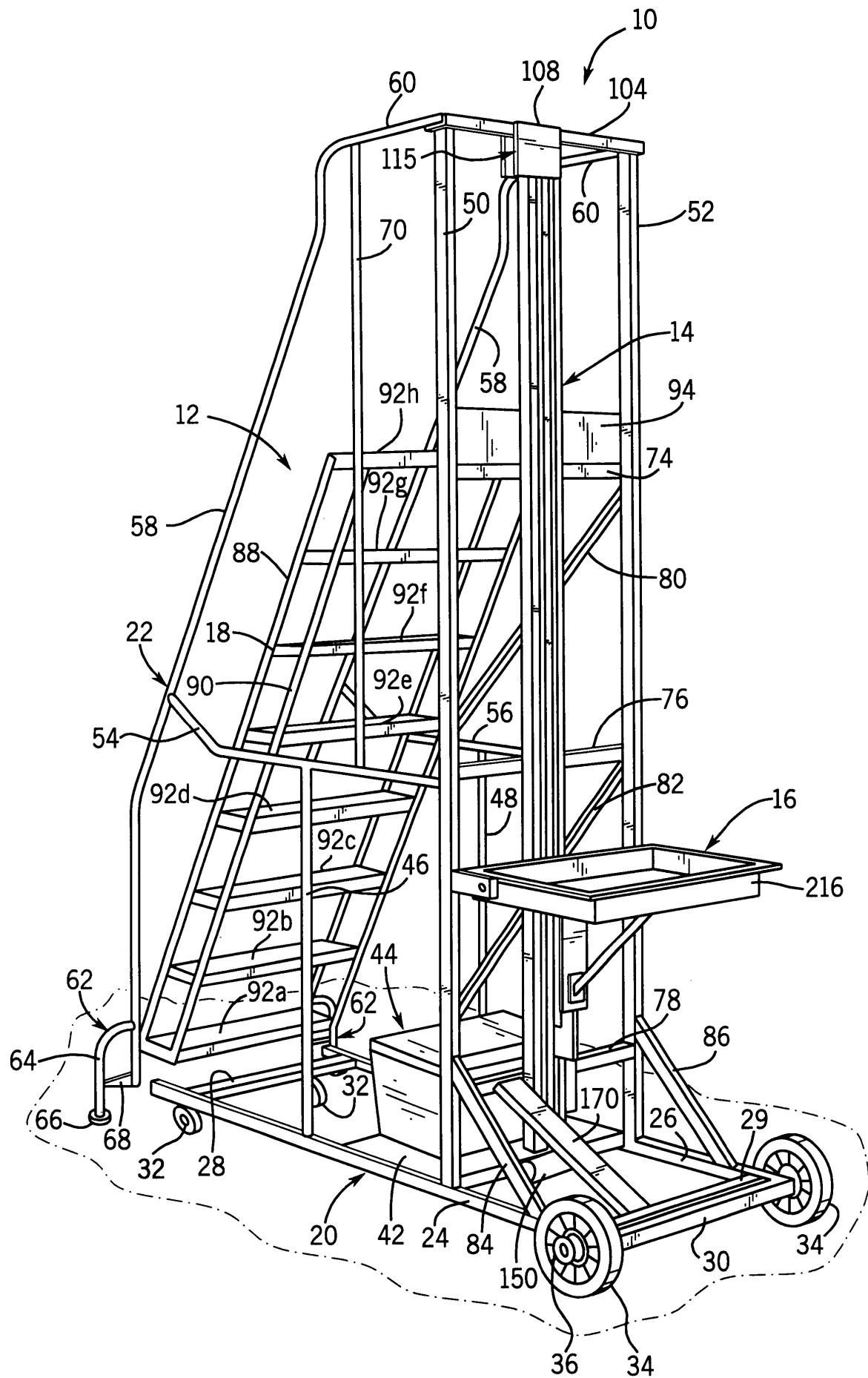
Family 26/45 - FAMPAT - ©Questel

Title

(US6283249)

Mobile ladder with lifting tray

Images



Publication data including kind & date

[US6283249](#)

B1 2001-09-04 US6283249



Abstract

(US6283249)

A combined stepped structure and lifting mechanism includes a base and a framework secured to the base, the framework having a pair of spaced apart vertical tubes rising upwardly from the base. A ladder is incorporated in the framework and a vertical track assembly is disposed between the vertical tubes and includes a pair of tubular members connected together. A trolley is rollably mounted for movement along one of the tubular members. A lifting tray assembly is connected for movement with the trolley. A drive system is operably connected to the trolley and driven by a DC motor and gearbox unit mounted to a bottom end of the vertical track assembly to selectively move the lifting tray assembly upwardly and downwardly along the vertical track assembly.

Inventors

YOUNG DAVID T

KACZOR SCOTT E

Latest standardized assignees - inventors removed

EGA PRODUCTS

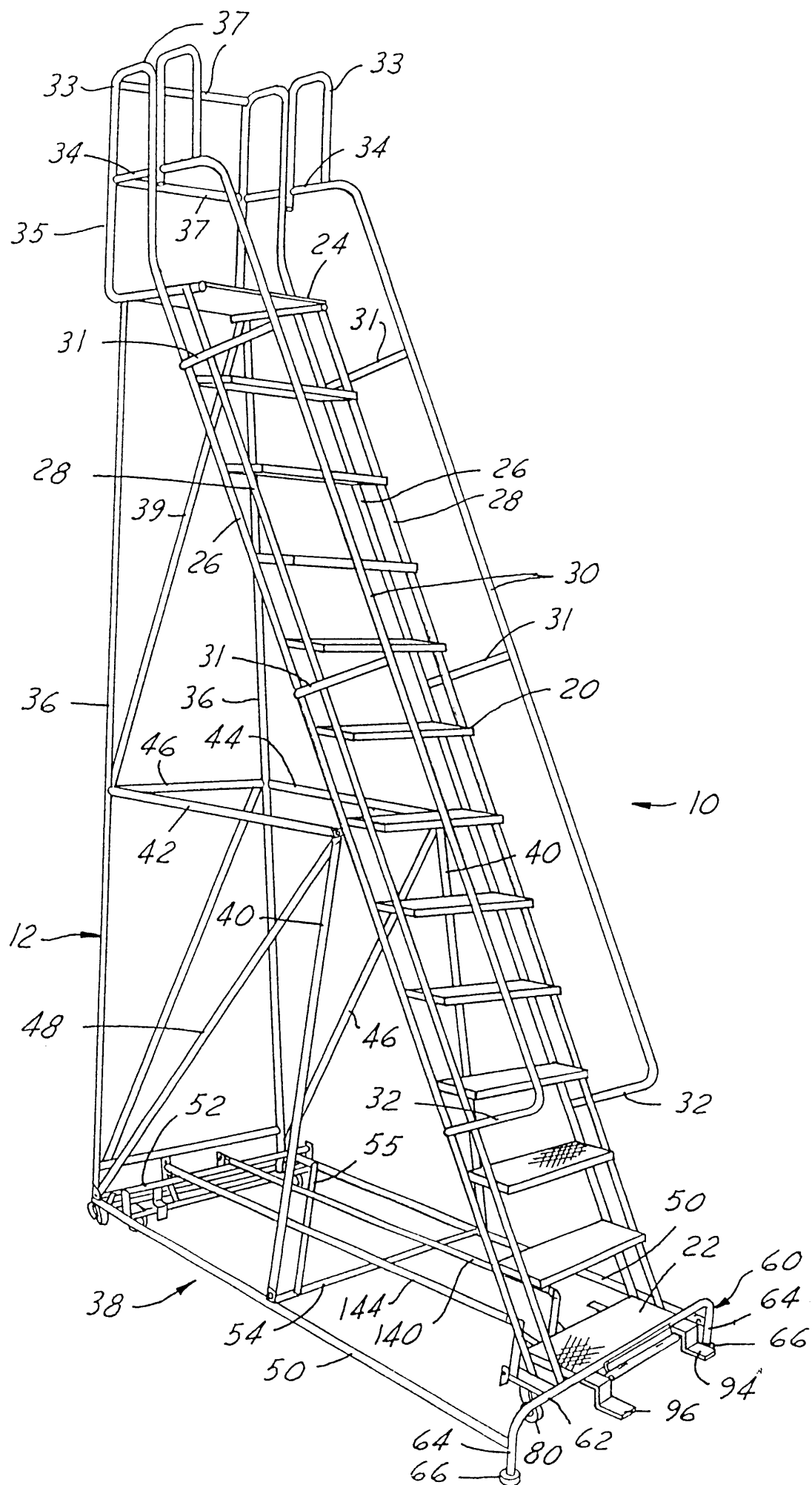
Family 27/45 - FAMPAT - ©Questel

Title

(US6305496)

Safety mobile ladder stand

Images



Publication data including kind & date[US6305496](#)

B1 2001-10-23 US6305496

**Abstract**

(US6305496)

The ladder stand employs a pair of swivable caster wheels at the front and a pair at the rear which are used in cooperation with a pair of closely located non-swivable caster wheels, thereby providing a structure which has three modes of operation, one mode for climbing, a second mode which permits the stand to be pushed in a straight line with wide turns and a third mode of operation which permits the stand to be first pushed laterally and to provide sharp turns. A front wheel support is mounted on the front end and a retractable first pair of swivable caster wheels is mounted on the front support. A rear wheel support is mounted on the rear end, with a retractable second pair of swivable caster wheels mounted on the rear support. A third pair of non-swivable rigid caster wheels are mounted at the rear end.

Inventors

BIESZCZAD TODD ANTHONY

Latest standardized assignees - inventors removed

MATERIAL CONTROL

Family 28/45 - FAMPAT - ©Questel

Title

(US6109628)

Cart for carrying stock for light maintenance

Images

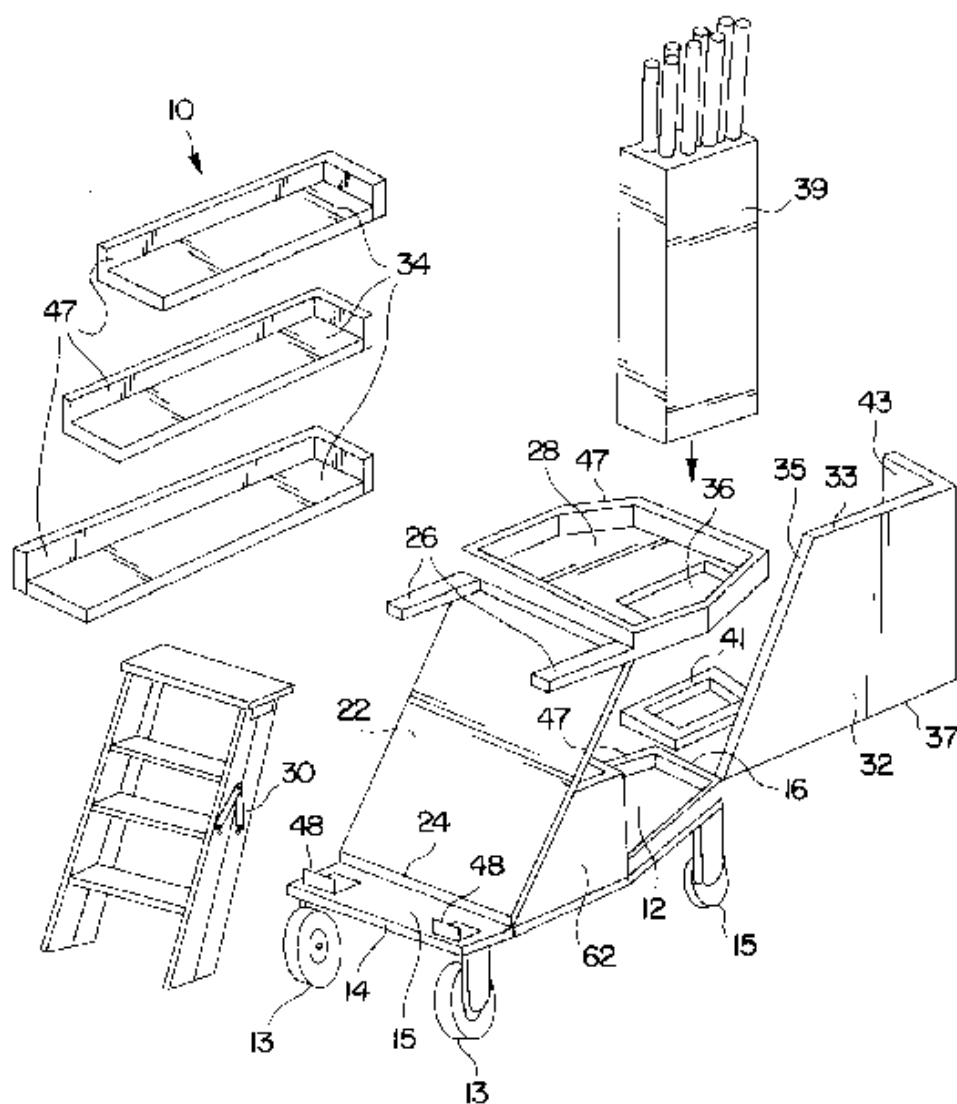


FIG. 1

Publication data including kind & date

US6109628

A 2000-08-29 US6109628

**Abstract**

(US6109628)

A workman's service cart for storing and transporting a ladder, tools, a carton of fluorescent light cylinders and tools related to maintenance of a fluorescent light fixtures including a base platform with wheels on a bottom side and a superstructure on the top side including a slant panel for extending from the base panel for supporting the ladder and connected to an edge of top panel. The top panel has an aperture for inserting the carton of fluorescent light cylinders on one side of a vertical partition panel. An array of shelves is located on the other side of the partition panel. The cart is built to permit a workman to stand on the top panel and exchange fluorescent light cylinders successively without having to climb down the ladder for each cylinder.

Inventors

SCHEPER WILLIAM A

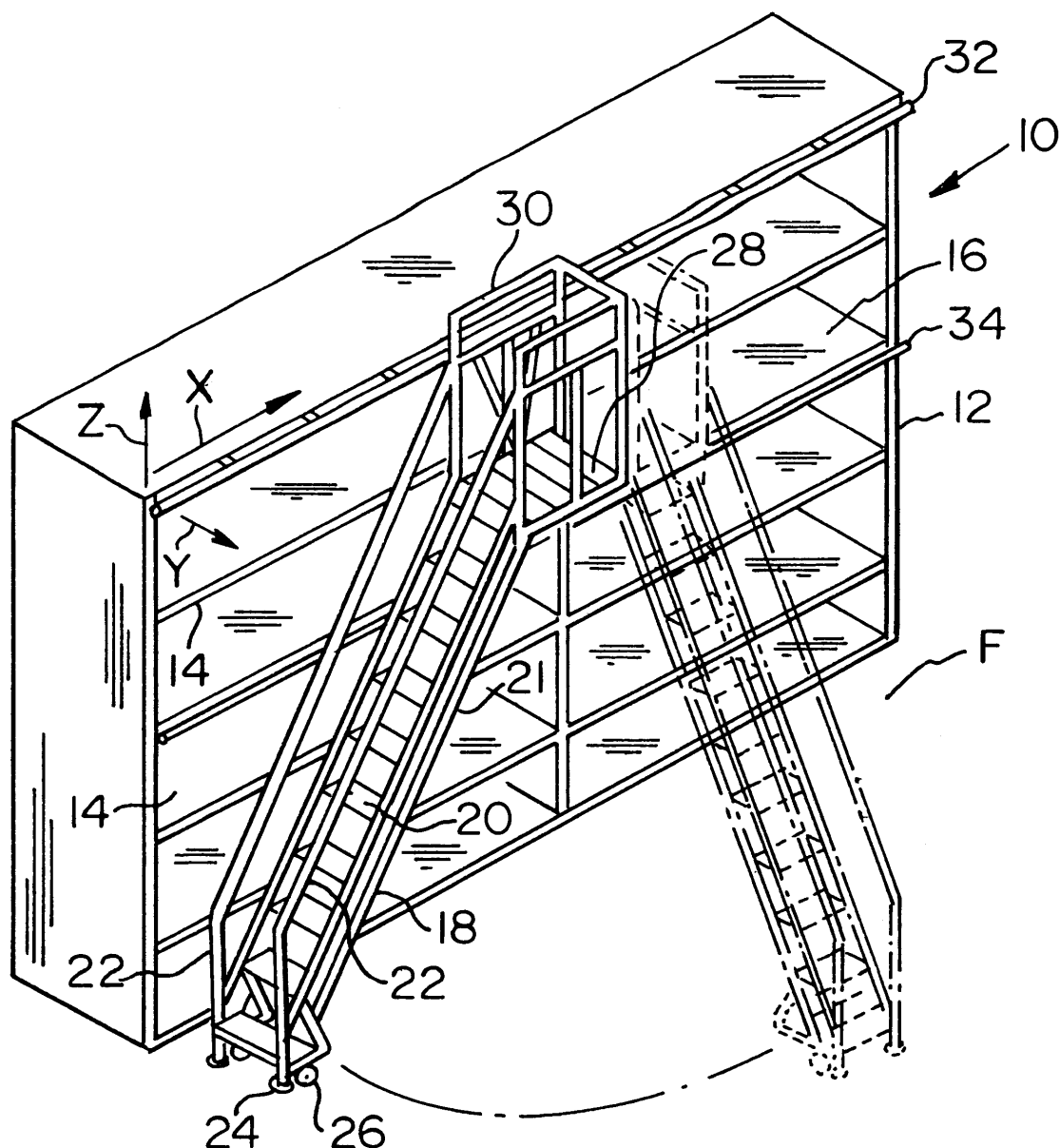
Family 29/45 - FAMPAT - ©Questel

Title

(US6230841)

Track ladder

Images



Publication data including kind & date

US6230841

B1 2001-05-15 US6230841



Abstract

(US6230841)

A track ladder that includes a ladder frame, plurality of steps secured to the ladder frame and a carriage assembly secured to the ladder frame. The ladder frame rides on an upper track and a lower track and adapted to move in a horizontal direction and pivot about a vertical axis.

Inventors

VALORE NICHOLAS J

Latest standardized assignees - inventors removed

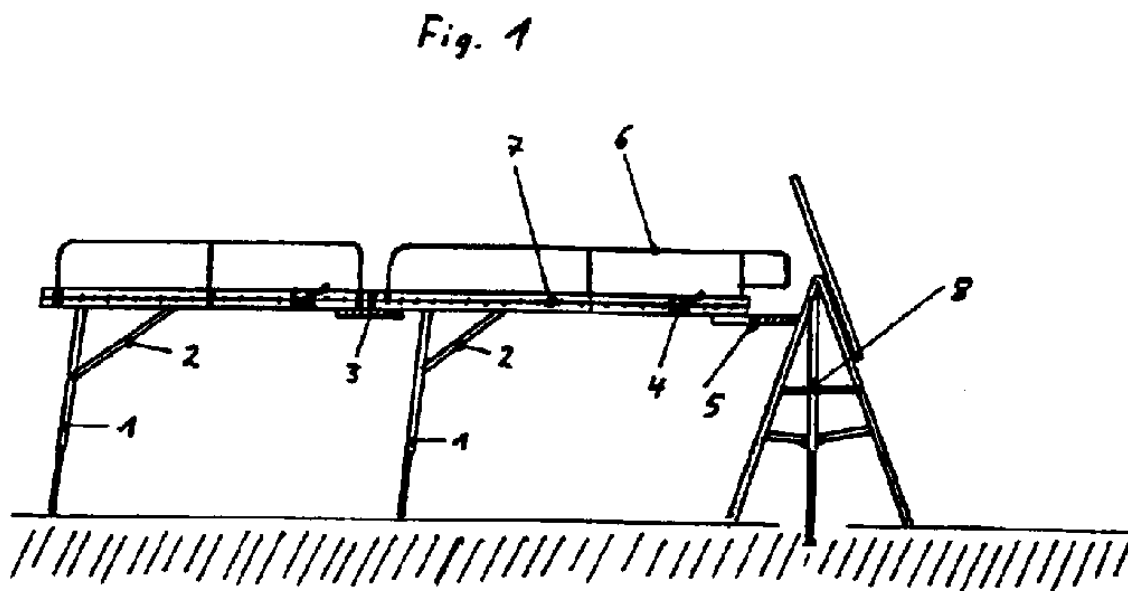
MELFRED

Family 30/45 - FAMPAT - ©Questel

Title

(DE29706219)

Multi-Purpose Working Diele

Images**Publication data including kind & date**[DE29706219](#)

U1 1997-05-28

DE29706219

**Latest standardized assignees - inventors removed**

LAUG HORST

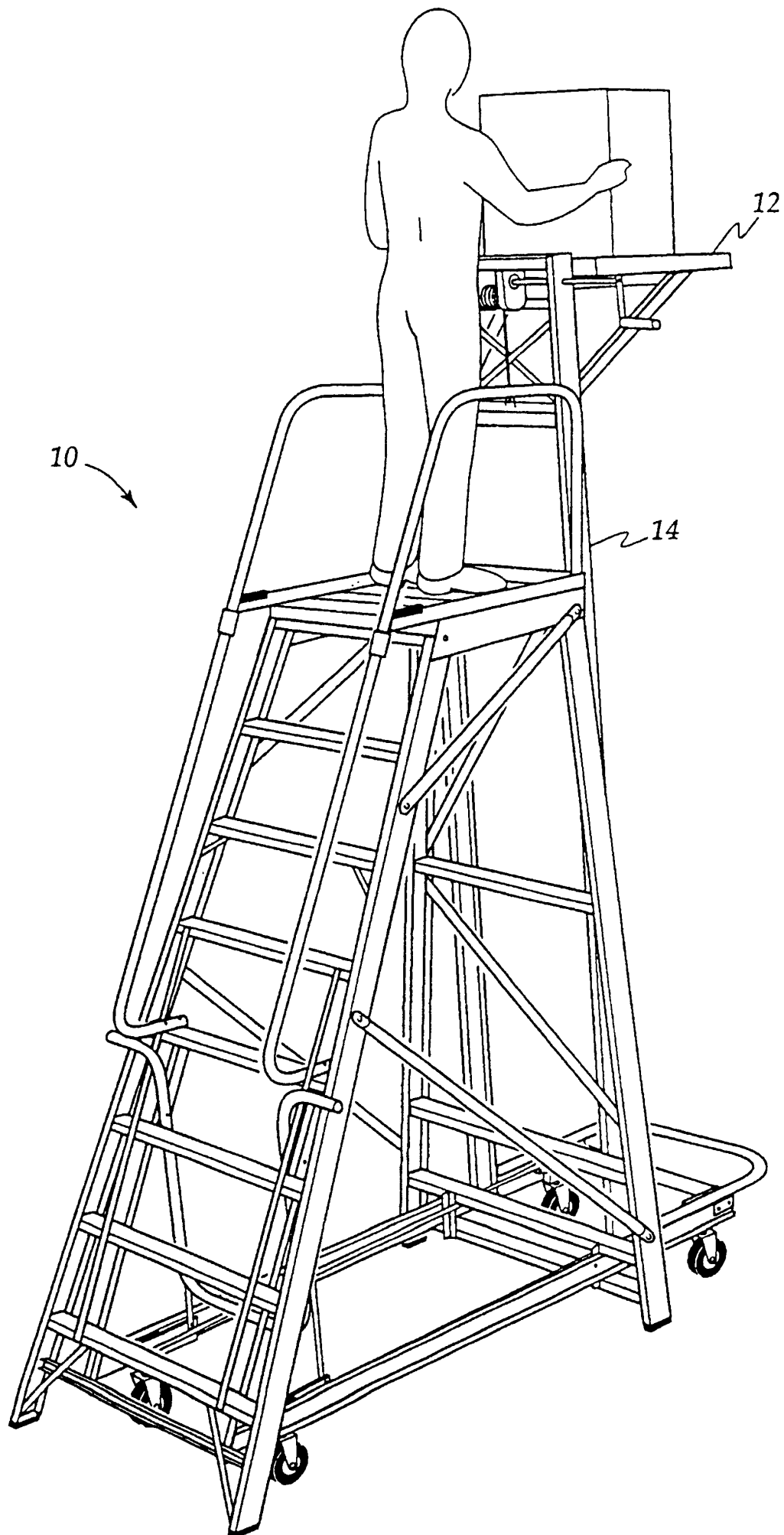
Family 31/45 - FAMPAT - ©Questel

Title

(EP-937190)

Mobile ladder including a goods lift

Images



Publication data including kind & date

AUPO320296	A0	1996-11-14	AU-320296
WO9817890	A1	1998-04-30	WO9817890
CA2269742	A1	1998-04-30	CA2269742
AU4610697	A	1998-05-15	AU9746106
NZ335867	A	1999-07-29	NZ-335867
EP0937190	A1	1999-08-25	EP-937190
AU720601	B2	2000-06-08	AU-720601
EP0937190	A4	2001-03-28	EP-937190
US6216818	B1	2001-04-17	US6216818
EP0937190	B1	2004-04-07	EP-937190
AT263909	T	2004-04-15	ATE263909
DE69728552	D1	2004-05-13	DE69728552
PT937190	E	2004-08-31	PT-937190
ES2219778	T3	2004-12-01	ES2219778
DE69728552	T2	2005-03-24	DE69728552
CA2269742	C	2006-10-03	CA2269742

**Abstract**

(EP-937190)

A mobile ladder (10) including a goods lift (12) which can be driven between upper (Fig. 3) and lower (Fig. 4) positions. The ladder has a default immobile state which can be overcome by a force manually applied to a handle. The ladder can then be moved and steered via the handle.

Inventors

MOFFAT WILLIAM

Latest standardized assignees - inventors removed

CUSTOM LADDER

Family 32/45 - FAMPAT - ©Questel

Title

(EP-858546)

Ladder

Images

PT858546	E	2006-11-30	PT-858546
ES2270440	T3	2007-04-01	ES2270440
DE69636250	T2	2007-04-26	DE69636250

**Abstract**

(EP-858546)

A ladder (10) including: mobility means (12) displaceable between a ladder immobile position and a ladder mobile position in which the mobility means extends downwardly beyond the foot of the ladder; and manually actuatable means (30, 20, 14) for displacing the mobility means from the ladder immobile position to the ladder mobile position, wherein, when the manually actuatable means is released, the mobility means returns to the ladder immobile position.

Inventors

MOFFAT WILLIAM

Latest standardized assignees - inventors removed

CUSTOM LADDER

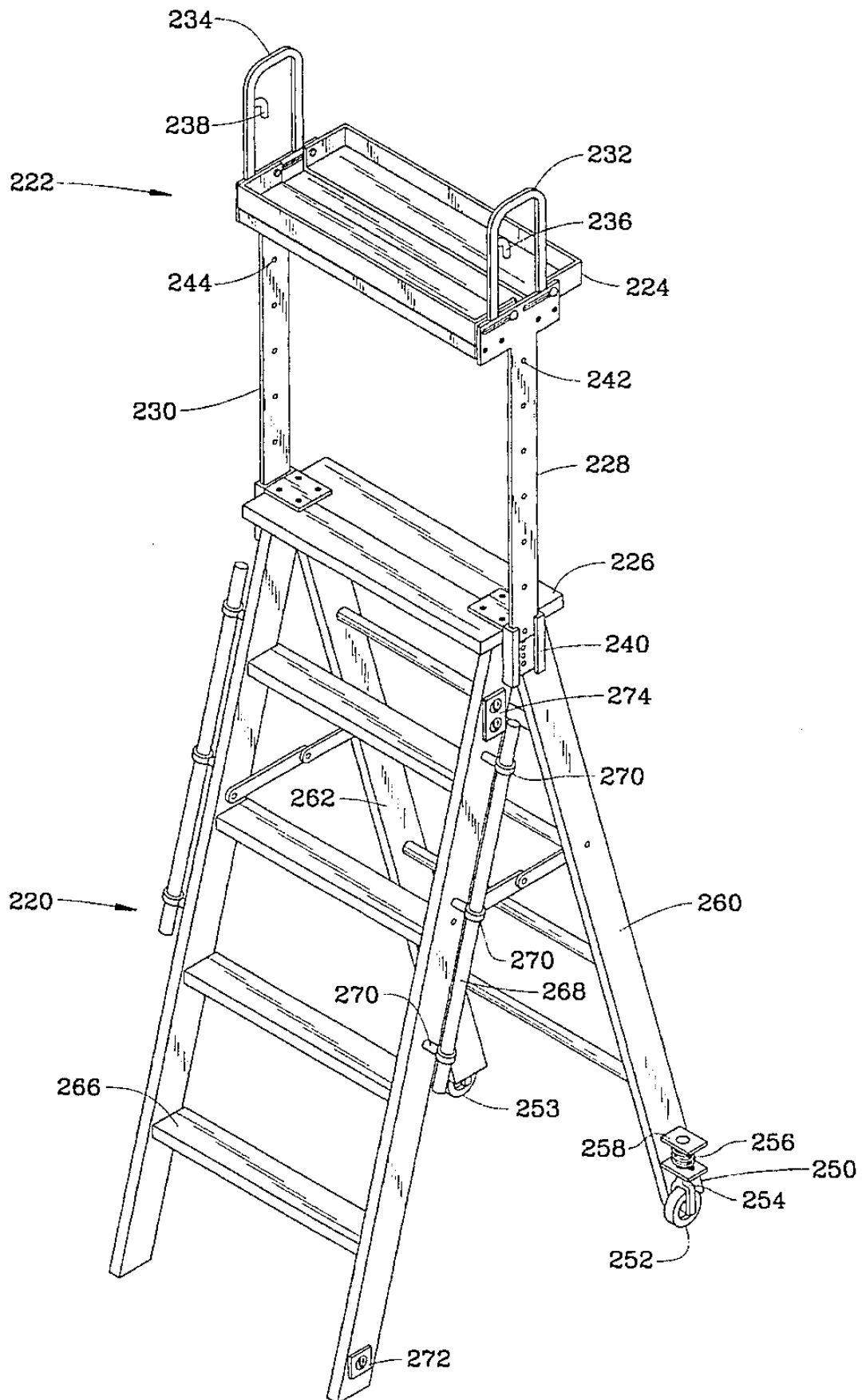
Family 33/45 - FAMPAT - ©Questel

Title

(US5584357)

Ladder

Images

**Publication data including kind & date**[US5584357](#)

A 1996-12-17 US5584357

**Abstract**

(US5584357)

The instant invention is directed to increasing the safety of ladders and includes an accessory holder for the top of ladders

forming a tray which expands in size allowing placement of working materials in the tray. The tray collapses into a size assimilating a conventional ladder top for compact storage. The tray can be raised to various heights and allows the operator to remove the tray in its entirety to carry items to the ladder providing for convenience and safety. An alternative embodiment provides for the use of solid portions in place of a tray allowing smaller ladders such as to be used as saw horses yet provide a means for forming a smaller tray for securement of miscellaneous working materials. The improved ladder employs handles that couple to each side limb of the ladder allowing an operator to grasp the handles while climbing. An electrical socket mounted in a limb provides for a prewired extension along the length of the limb providing an electrical connection near the top portion of the ladder. Biased wheels allow the ladder to be moved without lifting.

Inventors

GUGEL LESLIE H

GUGEL JOYCE A

Latest standardized assignees - inventors removed

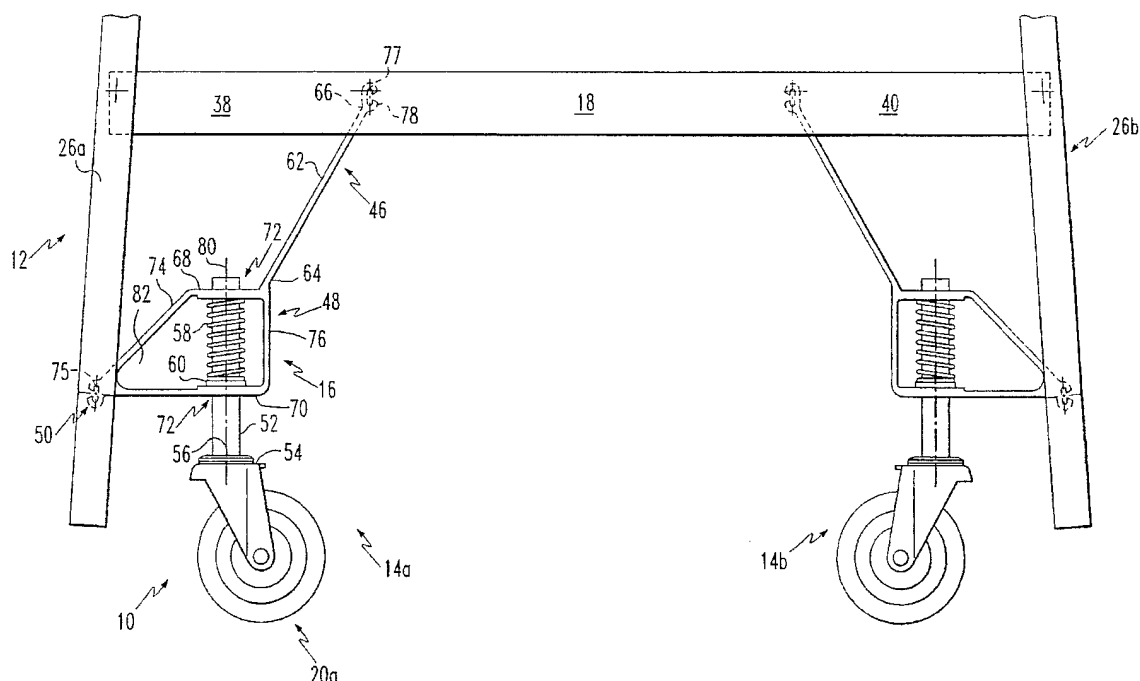
CONSULIER ENGINEERING

Family 34/45 - FAMPAT - ©Questel

Title

(US5653306)

Ladder system including a caster bracket and method of forming

Images**Publication data including kind & date**

CA2128300	A1	1995-02-13	CA2128300
US5653306	A	1997-08-05	US5653306

**Abstract**

(US5653306)

A ladder system comprising a ladder having side rails and a plurality of steps disposed between the side rails. The ladder system also is comprised of at least one corner brace for supporting a bottom step of the ladder. The corner brace is attached to a side rail of the ladder and the bottom step. Additionally, the ladder system is comprised of at least one caster assembly integrally attached to the corner brace for allowing the ladder to roll. Preferably, the caster assembly and corner brace are disposed on the ladder such that a predetermined weight placed on the ladder prevents the ladder from rolling. The corner brace is preferably comprised of a first portion, a second portion connected to the first portion and a third portion connected to the second portion. The first portion is attached to a bottom of the ladder. The second portion is

attached to the caster assembly. Additionally, the third portion is attached to a rail of the ladder. A caster apparatus comprises a corner brace for supporting a bottom step of a ladder. The caster apparatus is also comprised of a caster assembly integrally attached to the corner brace for allowing the ladder to roll. A method for forming a ladder system. The method comprises the steps of attaching a caster assembly to a corner brace for a ladder such that the caster assembly is in biased sliding relationship with the corner brace. Then, there is the step of fixing the corner brace having the caster assembly to a bottom step of the ladder and to a side rail of the ladder such that the rail is maintained off of ground by the caster assembly when there is essentially no weight on the ladder. Preferably, after the fixing step, there is the step of rolling the ladder on the caster assembly to a desired location.

Inventors

BENDICKSON ROY B

SMITH JAY P

Latest standardized assignees - inventors removed

WERNER TECHNOLOGIES

Family 35/45 - FAMPAT - ©Questel

Title

(US6962233)

Mobile ladder stand

Images

FIG. 2

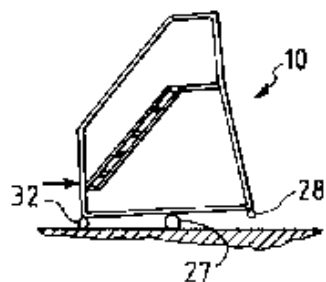
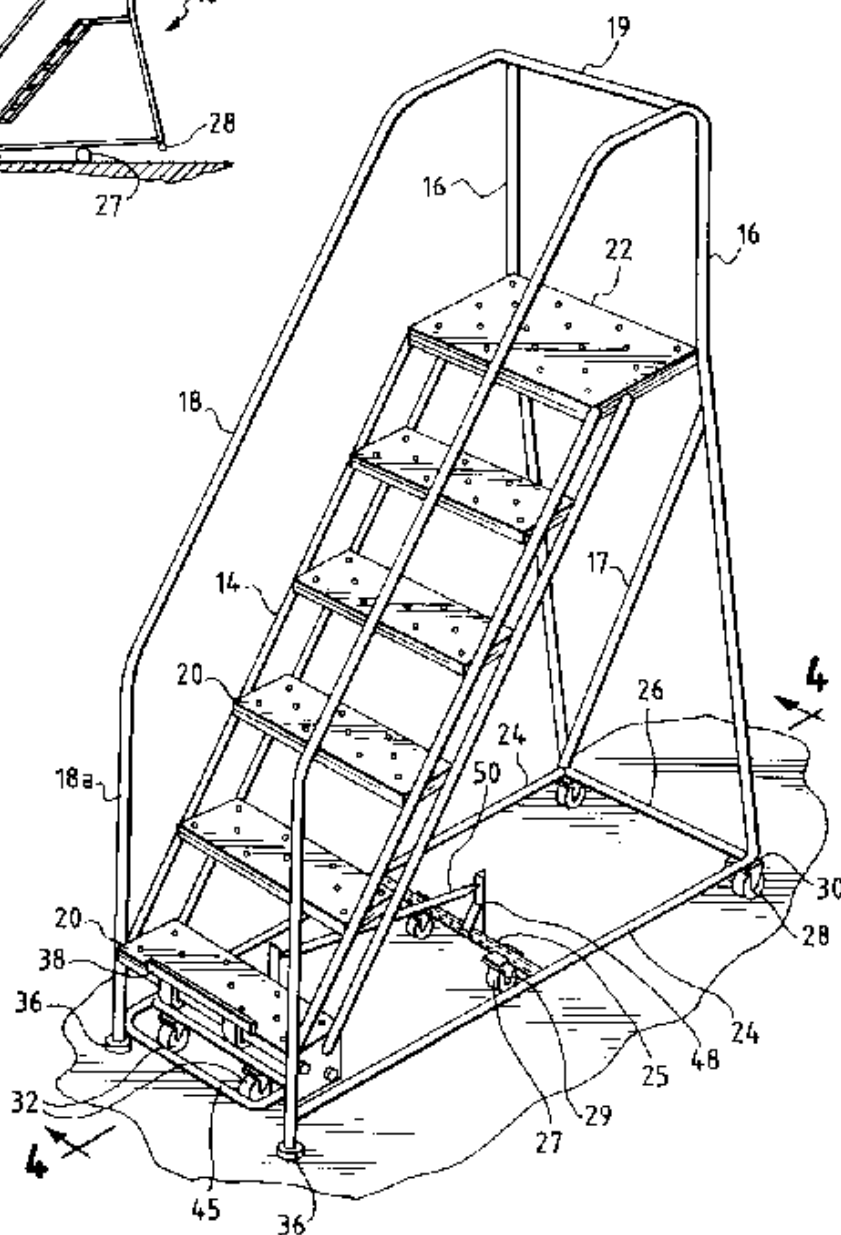


FIG. 1



Publication data including kind & date

US5941341	A	1999-08-24	US5941341
US6039147	A	2000-03-21	US6039147
US2001013444	A1	2001-08-16	US20010013444
US6962233	B2	2005-11-08	US6962233



Abstract

(US6962233)

A safety ladder stand comprising a generally rectangular base having a front and rear and a center beam, a plurality of stair treads extending upward from the front of said base and means for supporting said stair treads secured to said base, front wheels mounted at the front of said base and beneath the top of said stair treads; center wheels mounted on said center beam of said base, and rear wheels mounted at the rear of said base, and a set of feet mounted on the front of said base;

wherein said ladder stand has an activated position wherein said front and center wheel sets are in contact with the ground to enable said ladder stand to roll and said rear wheels and front support feet are not in contact with the ground, as well as a deactivated position wherein the front and center wheel sets are not in contact with the ground and said rear wheels and front support feet are in contact with the ground to prevent said ladder stand from being rolled; and means for moving said ladder stand from said deactivated position to said activated position.

Inventors

GILLIS DONALD G

JOHNSON DANIEL

Latest standardized assignees - inventors removed

SPG INTERNATIONAL

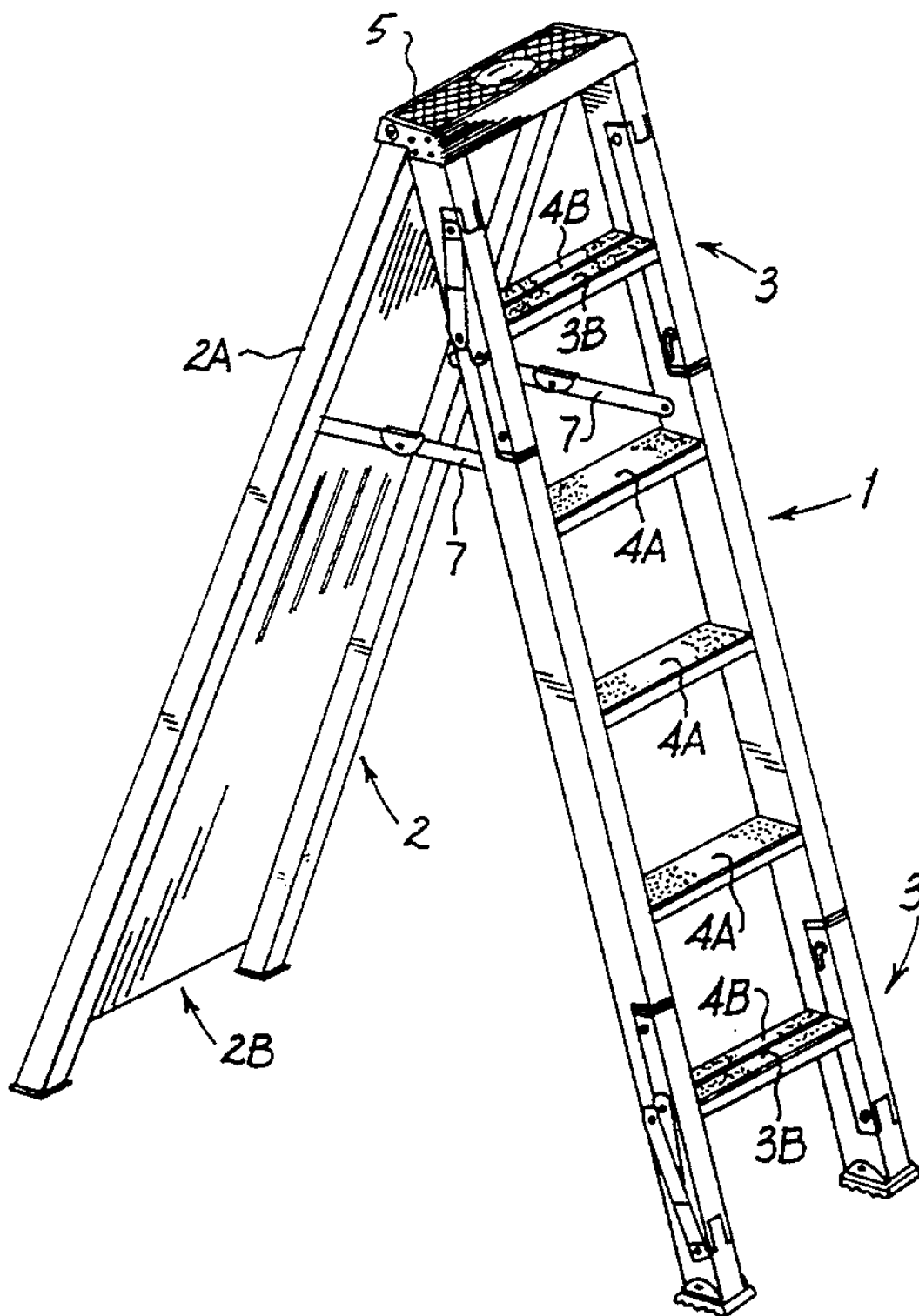
Family 36/45 - FAMPAT - ©Questel

Title

(US5332062)

Simplified scaffold ladder

Images



Publication data including kind & date

US5332062

A 1994-07-26 US5332062



Abstract

(US5332062)

A combination scaffold ladder device having a scaffold portion which is formed by a prop positioned above a pair of ladder side members, and is connected to the sides by connecting means which include a top step and a pair of extensible spreaders. The parallel ladder side members each contain at least one indentation, and are joined together by a plurality of ladder steps with two of the steps being partial in nature. The ladder structure and the prop in the horizontal position is supported by versatile support members that are attached near the top of the versatile support member housings to the parallel ladder side members by a plurality of pivotable joint pins and locked into position by a further plurality of extensible spreaders. By placing the scaffold on its side or in a vertical position and releasing the locking means on the extensible

spreaders by pivoting the versatile support members by means of pivoting joining pins into the indentations of the parallel ladder side members simultaneously joining two partial step/pullout bars of the versatile support members with their mating partial steps on the ladder structure in a parallel manner forming complete steps and transforming the invention into a flat horizontal platform. The vertical placement of the ladder structure away from the prop through the use of extensible spreaders affords the invention its stepladder configuration.

Inventors

REVERE PAUL

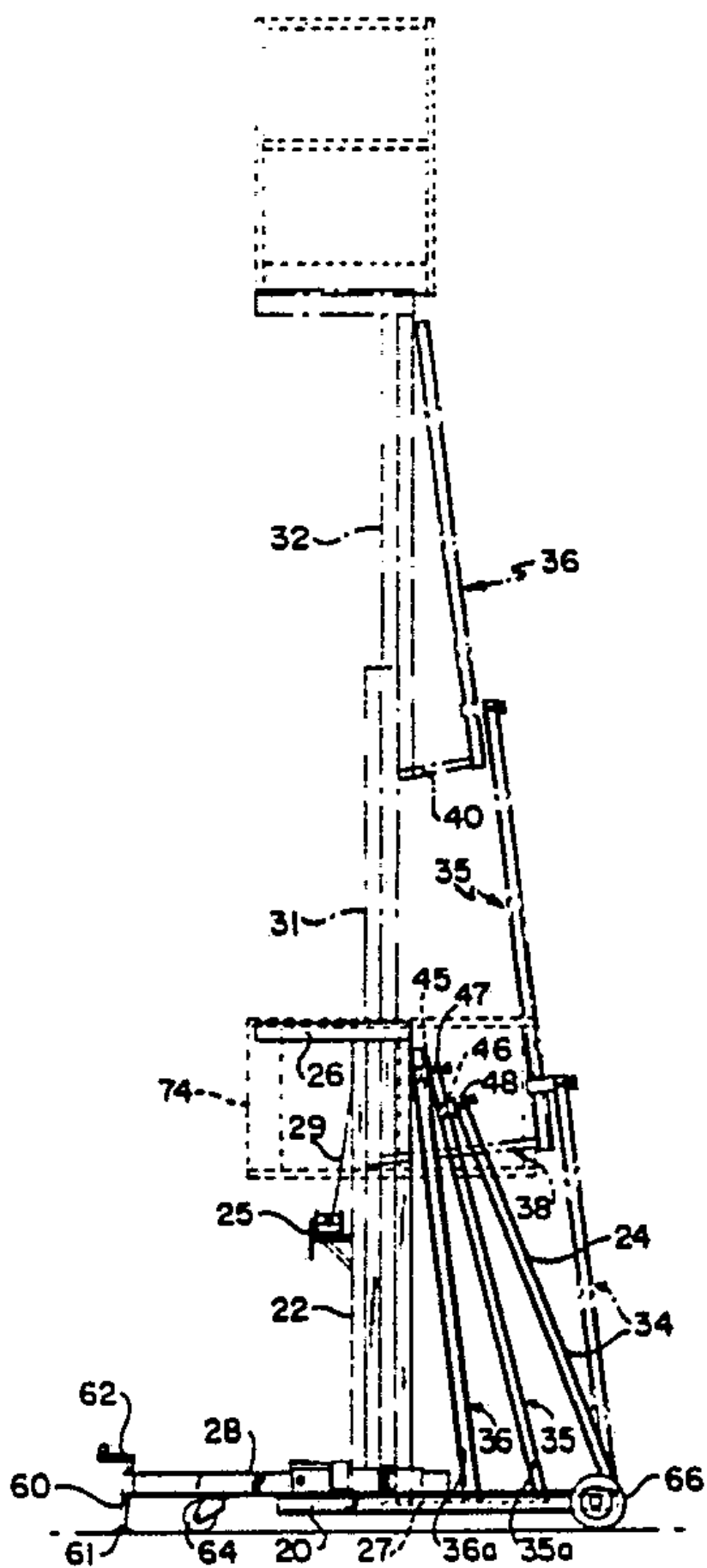
Family 37/45 - FAMPAT - ©Questel

Title

(EP--70312)

Portable lift with ladder

Images



Publication data including kind & date

WO8202570	A1	1982-08-05	WO8202570
AU8148082	A	1982-08-16	AU8281480
EP0070312	A1	1983-01-26	EP--70312
JPS58500206	A	1983-02-10	JP58500206
EP0070312	A4	1983-06-08	EP--70312
US4390080	A	1983-06-28	US4390080
EP0070312	B1	1986-05-14	EP--70312
DE3271085	D1	1986-06-19	DE3271085
AU553169	B2	1986-07-03	AU-553169

**Abstract**

(EP--70312)

A multi-stage extensible tower (22) on a wheeled base (20) with a platform (26) has an extensible multi-sectioned ladder (24) which slopes downwardly uniformly from the platform (26) when the tower (22) and ladder (24) are in extended position. When the tower (22) and the ladder (24) are in lowered, retracted position, the ladder sections (34, 35, 36) have different slopes from one another. Outriggers (28) are provided on the base (20) which have a retracted position preventing extension of the tower. The platform (26) has a fence (74) which can be swung down level with the platform (26) for conditions of reduced overhead clearance while the unit is being moved.

Inventors

BUSHNELL, SHERMAN W.

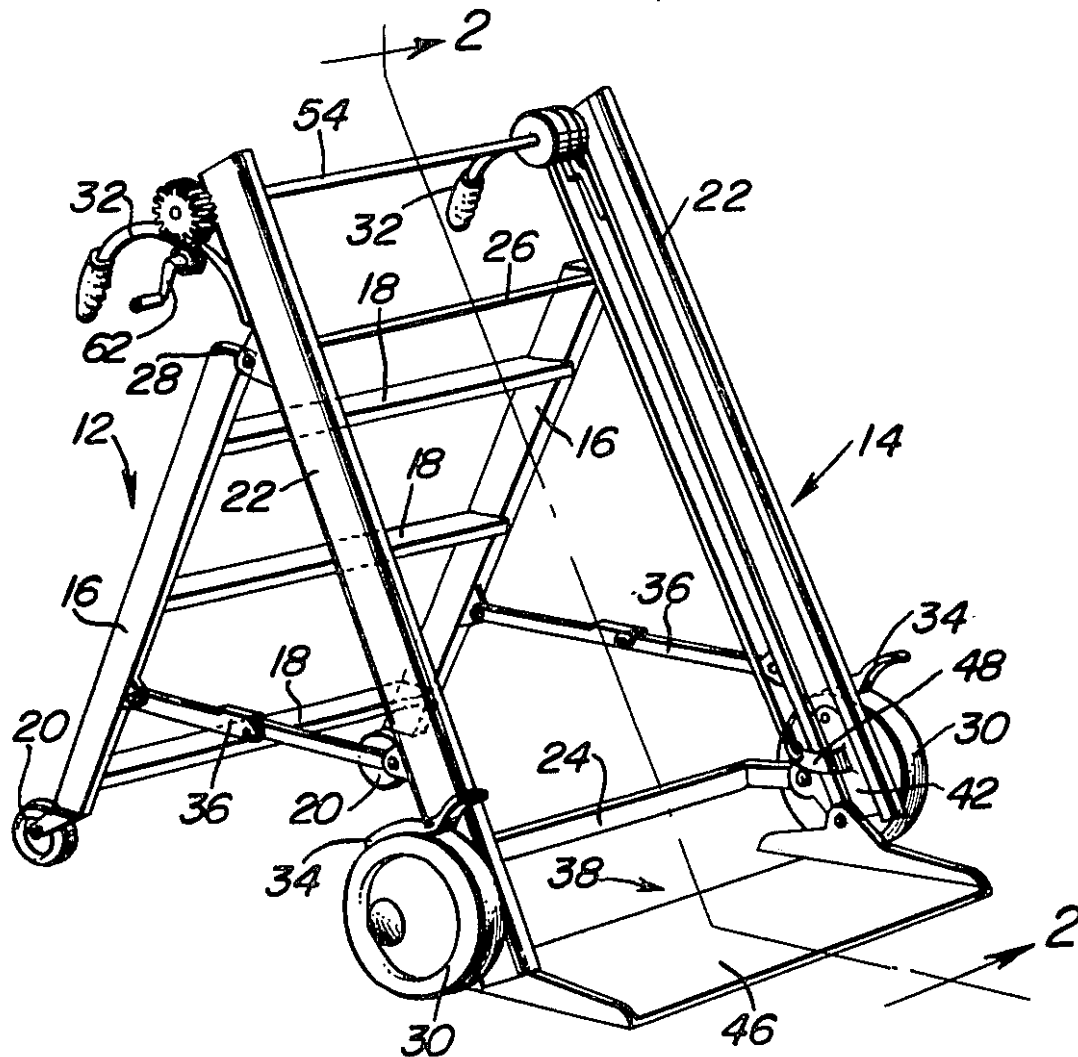
Family 38/45 - FAMPAT - ©Questel

Title

(US4258826)

Combination stepladder and load lifting apparatus

Images

**Publication data including kind & date**

US4258826

A 1981-03-31 US4258826

**Abstract**

(US4258826)

Two frame sections are hinged at their top and each frame section contains a pair of wheels at the bottom. One of the frame sections consists of a pair of laterally spaced parallel side rails having horizontal steps disposed therebetween. The other frame section contains a pair of parallel spaced channel bars on which ride a vertically movable platform. The platform can be hoisted along the channel bars by use of a hand crank and winch assembly. The two frame sections can be folded together for use as a conventional hand truck or the frame sections can be folded apart and the wheels locked for use as a stepladder.

Inventors

MURRAY DOUGLAS J

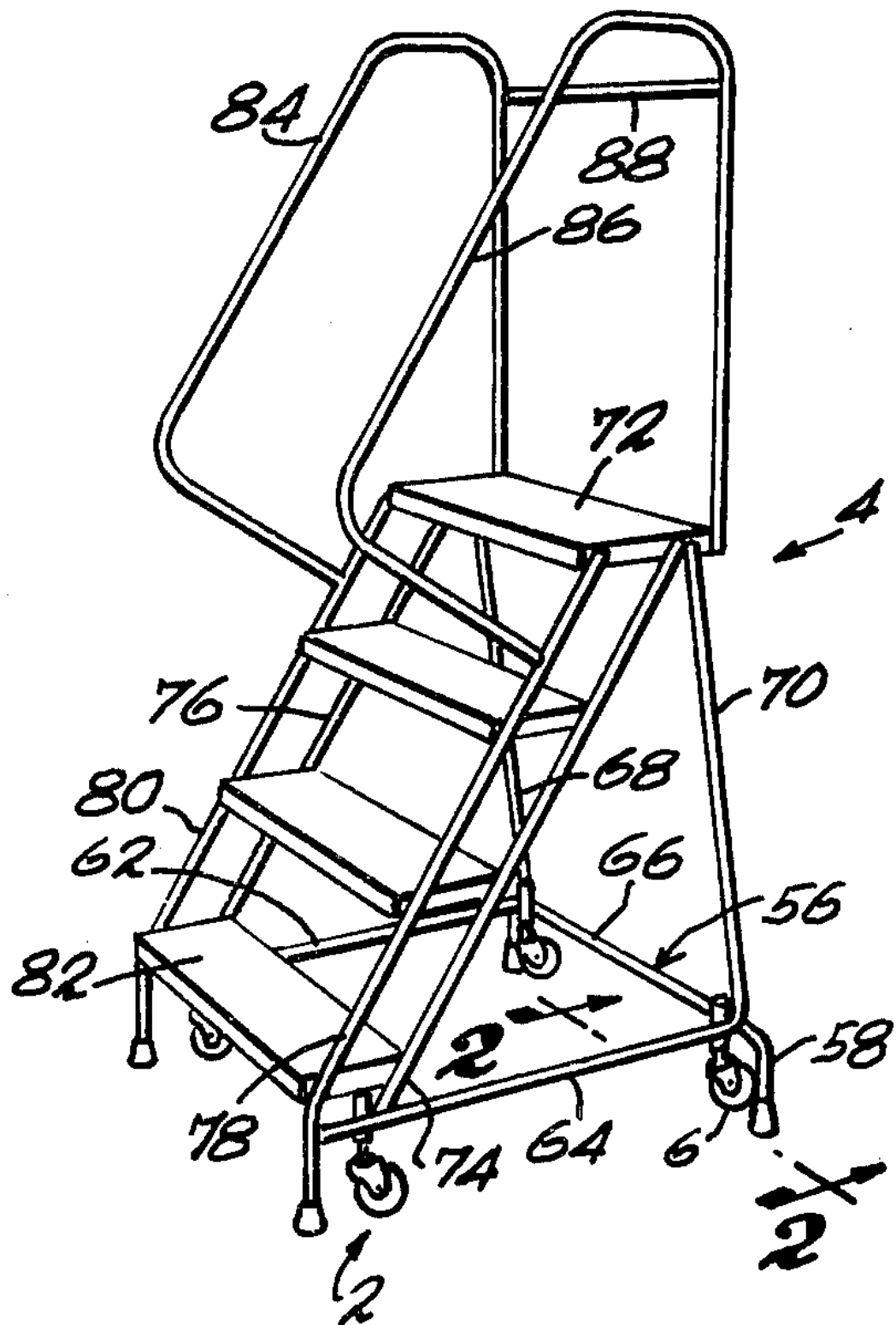
Family 39/45 - FAMPAT - ©Questel

Title

(US4166516)

Adjustable caster

Images



Publication data including kind & date

US4166516

A 1979-09-04 US4166516



Abstract

(US4166516)

A spring loaded, adjustable caster is disclosed which is used in combination with a rolling ladder. The adjustable caster comprises a wheel, a wheel mount for mounting the wheel, a longitudinal adjustable shank including a connecting rod having a threaded bore and a threaded shaft disposed in screwthreaded engagement with each other, whereby the length of the longitudinal adjustable shank may be varied. A jam nut is disposed in threadingly fitted engagement on the threaded shaft intermediate to the connecting rod and the wheel mount, whereby the jam nut may be rotated into a biasing relationship to the connecting rod. The caster further includes a sleeve adapted for sliding support of the connecting rod and

with a spring disposed within the sleeve to provide a compressed relationship between the sleeve and the connecting rod. The sleeve is then mounted on a rolling ladder. Also, disclosed is a rolling ladder including a rectangular base with an adjustable caster disposed in each of the corners thereof, and a ladder leg disposed adjacent to each of the adjustable casters. Each of the ladder legs are in pre-determined spaced-apart relationship. When the ladder is empty, the casters engage the floor. When the ladder is loaded, the weight of the load compresses the caster and the legs then engage the floor. Each individual caster can be adjusted to provide for uniform engagement of the floor when the ladder is loaded and uniform clearance from the floor when not stood upon.

Inventors

THURMOND ELMER T JR

Latest standardized assignees - inventors removed

EQUIPMENT

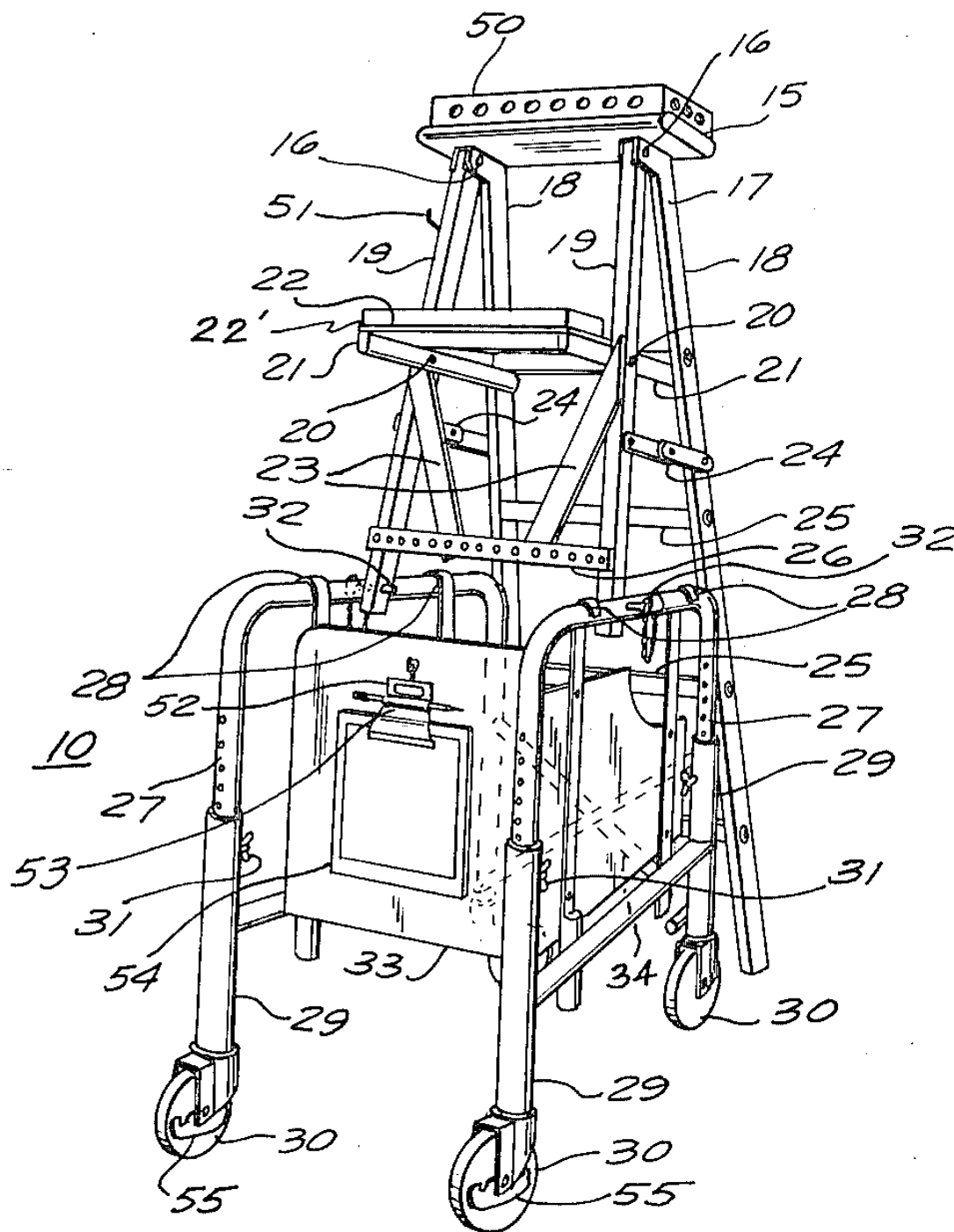
Family 40/45 - FAMPAT - ©Questel

Title

(US3857460)

Combination ladder and tool cart

Images



Publication data including kind & date

US3857460

A 1974-12-31 US3857460



Abstract

(US3857460)

A combined step ladder and tool cart having three basic components, namely a special, foldable step ladder having its set of front legs substantially shorter than the back set, a collapsible wheeled dolly, and removable tool or storage bin to be fitted within the confines of the dolly and attached thereto. The step ladder is mounted onto the dolly at its uppermost section by means of bolts or pivot pins and is designed to be folded up, over and horizontally onto the dolly so that it rides thereon when the dolly is transported from one location to another. The storage bin, which also can be collapsible if desired, is detachable from the dolly and carries on its front face such paraphernalia as a name tag, pencil holder and clip board. The dolly which is vertically adjustable serves as a set of front legs for the step ladder when the ladder is in its erected disposition. The dolly has its two sides joined by means of an X-folding member located at its back end and is preferably completely open at its front end. Auxiliary tool trays and/or paint can racks can be mounted on the ladder for

further utility.

Inventors

NINI R

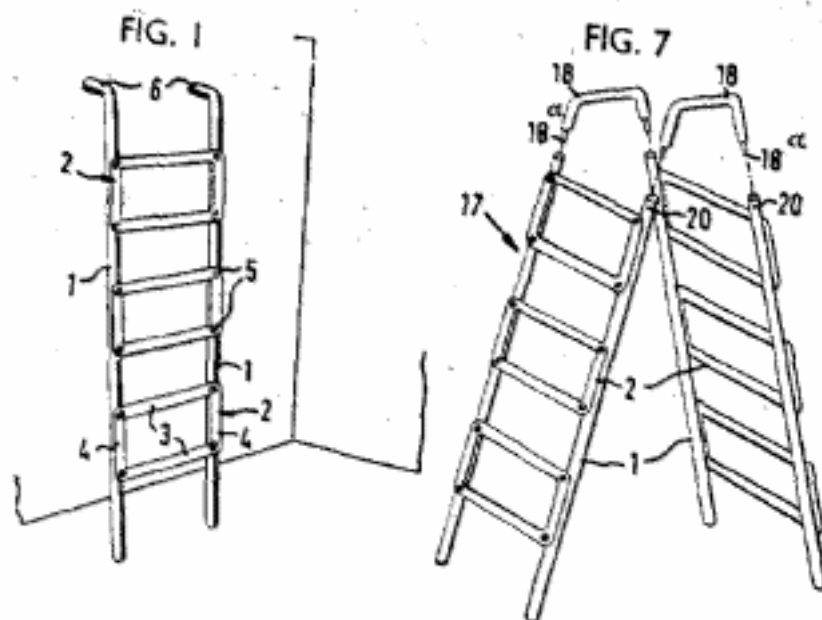
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Title

(GB1494312)

Ladders

Images



Publication data including kind & date

FI262074	A	1975-03-08	FI7402620
SE7411262	A	1975-03-10	SE7411262
NL7411907	A	1975-03-11	NL7411907
BE822970	A	1975-04-01	BE-822970
NO743214	A	1975-04-01	NO7403214
FR2243321	A1	1975-04-04	FR2243321
DK471374	A	1975-05-12	DK7404713
JPS5077162	A	1975-06-24	JP50077162
DE2442069	A1	1975-10-16	DE2442069
BR7407413	A	1975-11-04	BR7407413
AU7307174	A	1976-03-11	AU7473071
ZA7405675	B	1976-04-28	ZA7405675
FR2243321	B3	1977-06-17	FR2243321
GB1494312	A	1977-12-07	GB1494312
IT1023845	B	1978-05-30	IT1023845
SE410208	B	1979-10-01	SE-410208



Abstract

(FR2243321)

1494312 Ladders P HUGHES 22 Nov 1974 [7 Sept 1973] 42189/73 Heading E1S A ladder comprises a pair of rigid side members 1 and rigid rectangular frames 2 each providing two rungs 3, each frame side 4 being detachably secured to each side member at two spaced points 5. Such a ladder unit may be connected to other similar units, by spigot and socket joints between the ends of the side members, to form long ladders, free-standing ladders, step-ladders, and trestles. The side

members and frames may be of tubular metal, and the joints may comprise separate tubular spigots inserted and pinned in the side member ends, (Fig. 3, not shown). Angled connectors 18 with spigots 18<SP>a</SP> may connect a pair of ladders at their converging upper ends. A ladder foot comprises a groundengaging transverse tube carrying a pair of spigots for insertion in side member ends, (Fig. 10, not shown). The ladders may be provided with treads and platforms.

(From GB1494312 A)

Inventors

HUGHES PETER

Latest standardized assignees - inventors removed

HUGHES PETER

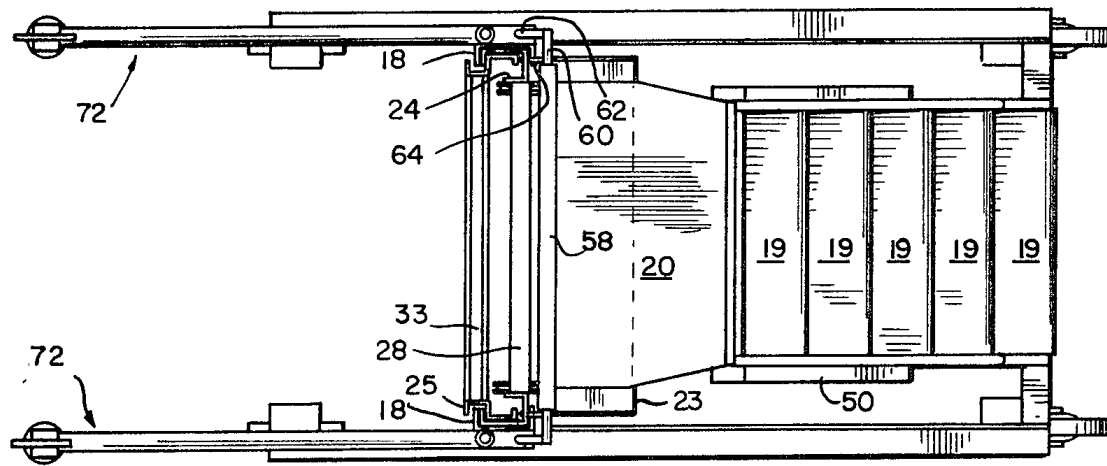
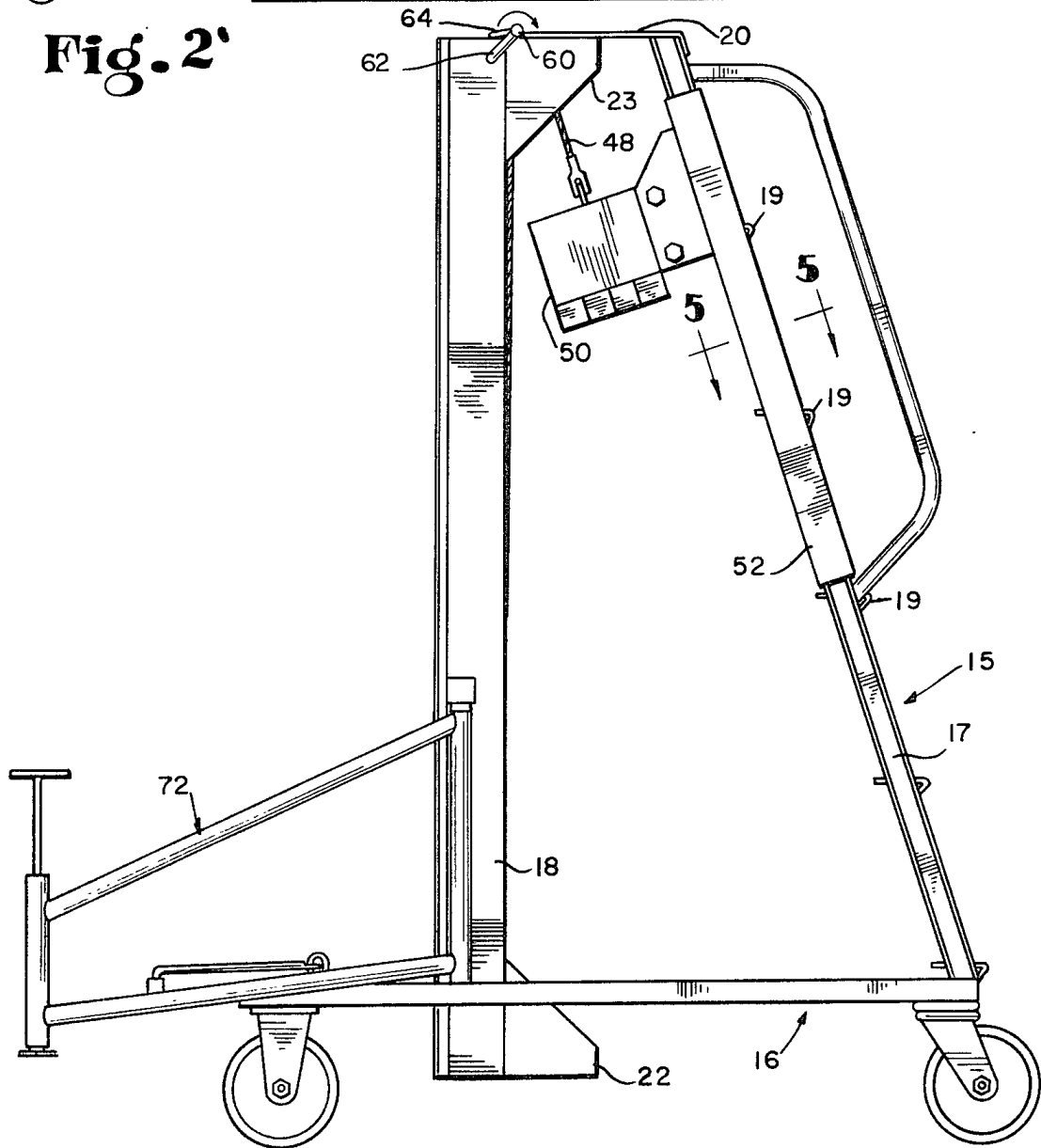
Family 42/45 - FAMPAT - ©Questel

Title

(US3737007)

Adjustable scaffold

Images

**Fig. 2'****Fig. 1**

INVENTOR
ROBERT C. HERRELL

BY

Trach Kulis & Herrell

Publication data including kind & date

US3737007

A 1973-06-05 US3737007

Abstract

(US3737007)



An adjustable scaffold has movable ladder sections and a base with a fixed ladder portion. Cable and pulley assemblies in conjunction with a counterweight permit raising and lowering of the movable ladder sections. Guide means are mounted on the fixed ladder portion to guide movement of the counterweight. A locking device has dogs which selectively engage a plurality of vertically spaced openings in a movable ladder section to lock the movable sections in desired positions.

Inventors

HERRELL R

Latest standardized assignees - inventors removed

BAKER ROSS

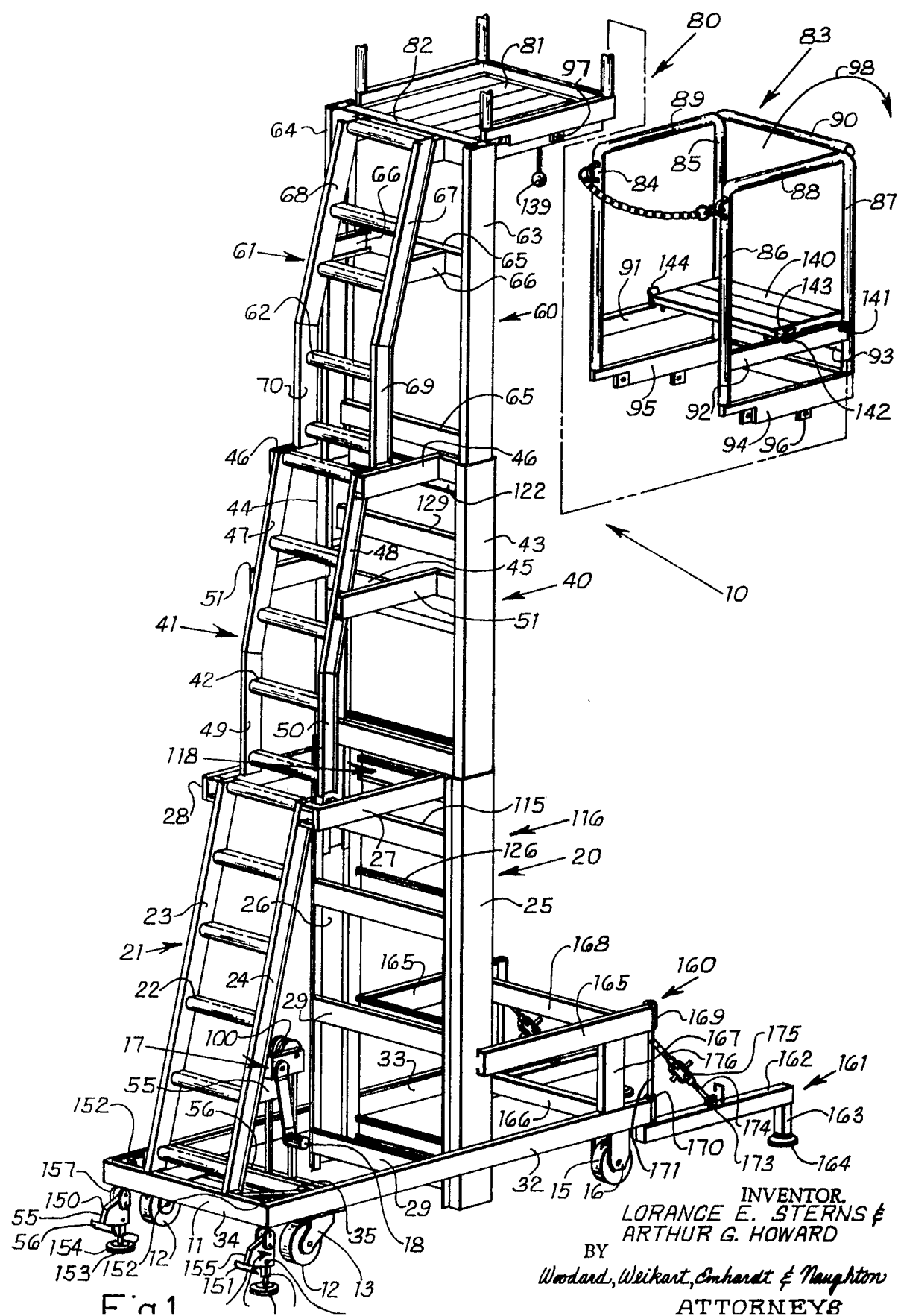
Family 43/45 - FAMPAT - ©Questel

Title

(US3664458)

Ladder scaffold vehicle

Images



Publication data including kind & date

US3664458

A 1972-05-23 US3664458

Abstract

(US3664458)

A vehicle having a ladder and a scaffold which may be extended and retracted by a winch and cable arrangement. A main frame mounted on wheels has a sloping ladder fixedly mounted to its top. The ladder is telescopic, having a middle and top ladder section retractable into a lower ladder section. A first platform is fixedly mounted to the top of the uppermost ladder section. A cage surrounds the platform and is pivotable downward. A second smaller platform is erectable on the first platform. Adjustable jack assemblies and braces fixed to the main frame are engageable to prevent movement of the vehicle. The braces are retracted when not in use.

Inventors

STERNS LORANCE E

HOWARD ARTHUR G

Latest standardized assignees - inventors removed

M S CHURCHMAN

KEYLESS LOCK

Family 44/45 - FAMPAT - ©Questel

Title

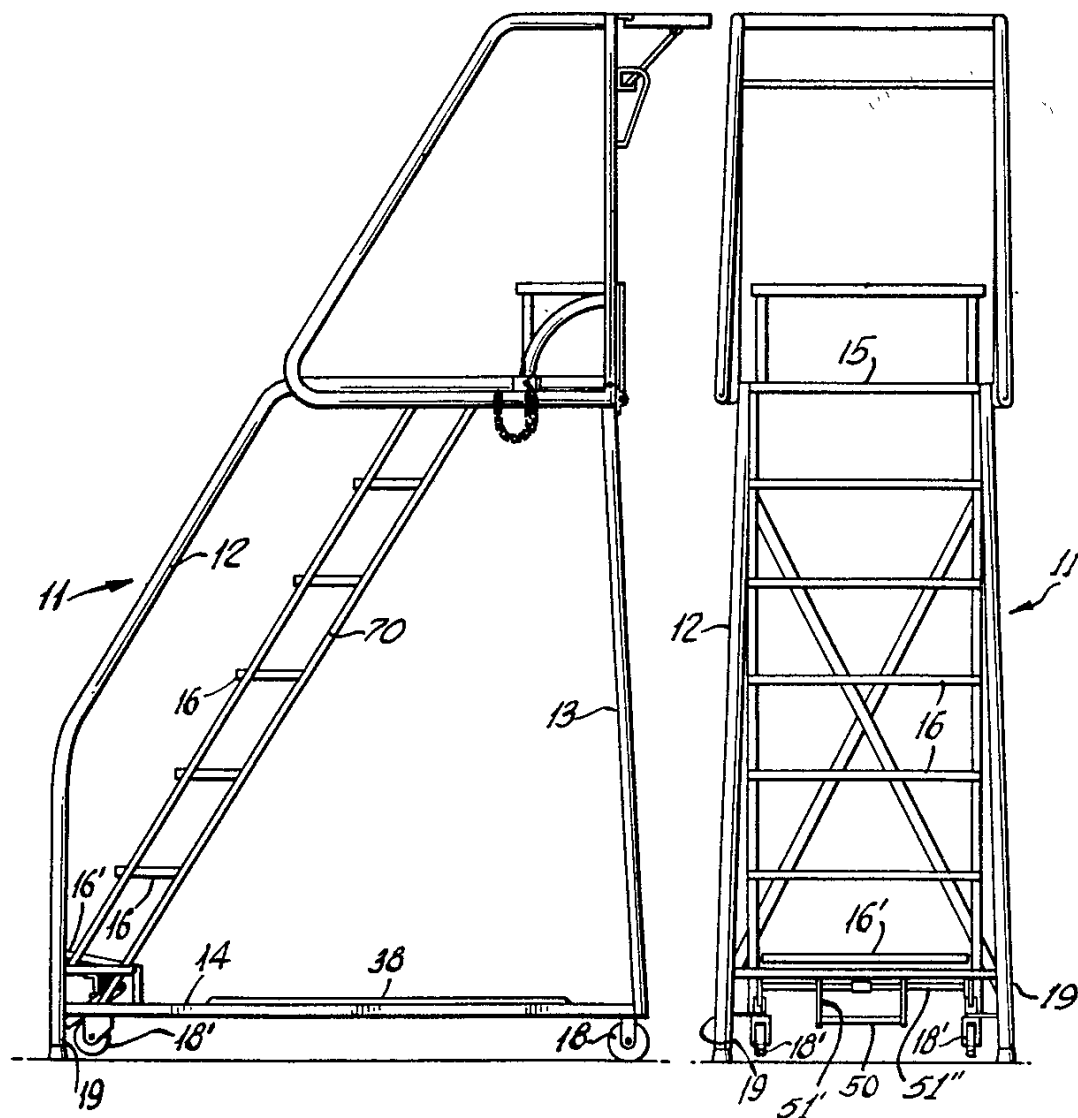
(US3155190)

Wheel mounted ladder

Images

Fig. 1.

Fig. 2.



INVENTOR

ARTHUR C. BORGMAN

BY

Curtis, Morris + S. B.

ATTORNEY

Publication data including kind & date

US3155190

A 1964-11-03 US3155190

Inventors

CARL BORGMAN ARTHUR



Latest standardized assignees - inventors removed

PATENT SCAFFOLDING

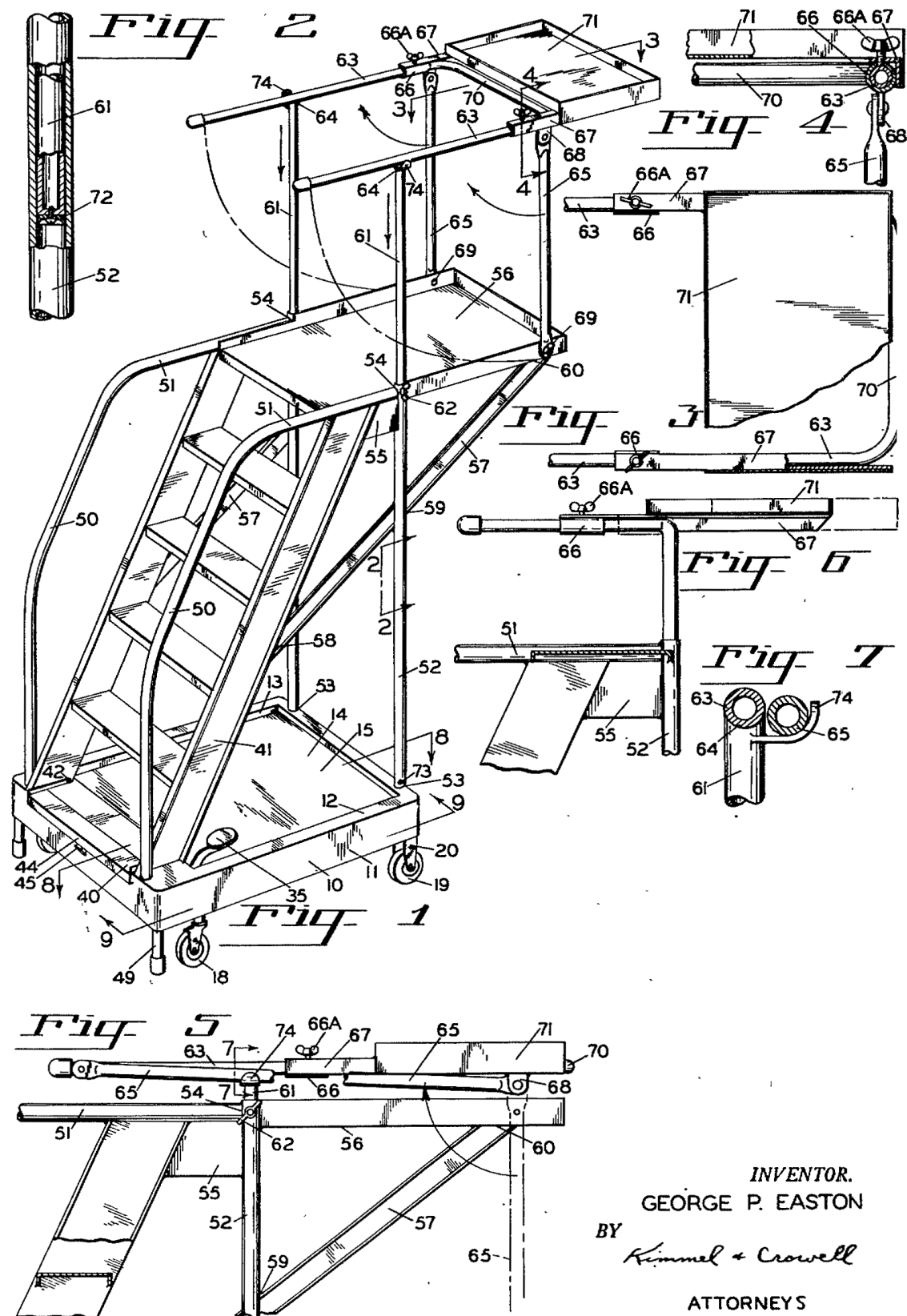
Family 45/45 - FAMPAT - ©Questel

Title

(US2798652)

Mobile ladders and platforms

Images



INVENTOR.
GEORGE P. EASTON
BY
Kimmel & Crowell
ATTORNEYS

Inventors

EASTON GEORGE P