

PatBase - Search results 29 August 2019

Search query (5): fn=(33584000 or 17874586 or 28850548 or 28850548 or 12926688 or 12695341 or 12972345 or 55144071 or 28182467 or 30744319 or 30780845 or 30872022 or 31339166 or 31782952 or 31871107 or 33584000 or 34552783 or 42068520 or 42908442 or 31782952 or 43555567 or 44898164 or 49400009 or 31782952 or 1273226 or 1393329 or 1429899 or 5167294 or 9028434 or 5064367 or 5196721 or 11034306 or 6357152 or 8929336 or 11236896 or 11992413 or 11710229 or 12387932 or 12467417 or 15383867 or 22639441 or 28182467 or 28182467 or 27988539 or 30780845 or 28182467 or 33584000 or 34552783 or 49955716 or 44898164 or 31782952 or 43555567 or 49400009 or 55633127 or 30537049 or 30537049 or 43876117 or 24721124 or 25887002 or 19659672 or 22499977 or 21821177 or 22499977 or 22578835 or 22085260 or 903687)

Results: 50

1) Family number: 33584000 (US2006243953A)

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Title: DEVICE FOR CHANGING A VEHICULAR COMPONENT

Abstract: A device for changing a vehicular component on a first vehicle. The device includes a frame for releasably receiving a vehicular component. The frame is configured to facilitate the frame being positioned in a component changing position with respect to the first vehicle. The device also includes a first actuator for moving the frame to a first position and a second position to thereby mount the vehicular component on the first vehicle or receive the vehicular component from the first vehicle.

Classifications:

International (IPC 8-9): B60B29/00 B60B30/00 B60R27/00 B60S13/00

B60S5/00 E02F3/96 (Advanced/Invention);

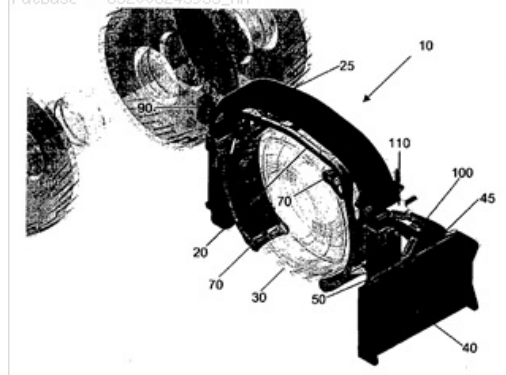
B60B29/00 B60B30/00 B60S13/00 B60S5/00 E02F3/04 (Core/Invention)

CPC: E02F3/3604 E02F3/6273 E02F3/96

European: E02F3/36C E02F3/627L E02F3/96

US: 254/418 280/79.4 37/403 414/426 414/427 414/428 414/429

PatBase - US2006243953 AA



Family:

Publication number	Publication date	Application number	Application date
AU2006201578 AA	20061102	AU20060201578	20060413
AU2006201578 BB	20120202	AU20060201578	20060413
CA2544127 AA	20061015	CA20062544127	20060418
CA2544127 C	20131126	CA20062544127	20060418
CL2006000869 A1	20061124	CL20060000869	20060413
CL47033 B	20100924	CL20060000869	20060413
US2006243953 AA	20061102	US20060405828	20060417
US7635134 BB	20091222	US20060405828	20060417

Priority:

AU20050901906 20050415 AU20060201578 20060413 AU20060201578 20060413
CA20062544127 20060418

Probable Assignee: JUSTOY PTY LTD

Assignee(s): (std): JUSTOY PTY LTD

Assignee(s): WHYBIN CHRISTOPHER NASH ; HEDLEY ROBERT IAN

Inventor(s): (std): HEDLEY ROBERT I ; HEDLEY ROBERT IAN ; WHYBIN CHRISTOPHER N ; WHYBIN CHRISTOPHER NASH

Inventor(s): ROBERT IAN HEDLEY ; WHYBIN CHRISTOPHER ; CHRISTOPHER NASH WHYBIN ; CHRISTOPHER NASH WHYBIN ROBERT IAN HEDLEY ; HEDLEY ROBERT

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; OYEN WIGGS GREEN AND MUTALA LLP; ALESSANDRI; CLIFFORD C DOUGHERTY III MCAFEE AND TAFT; MCAFEE AND TAFT

2) Family number: 25887002 (US1305322 A)

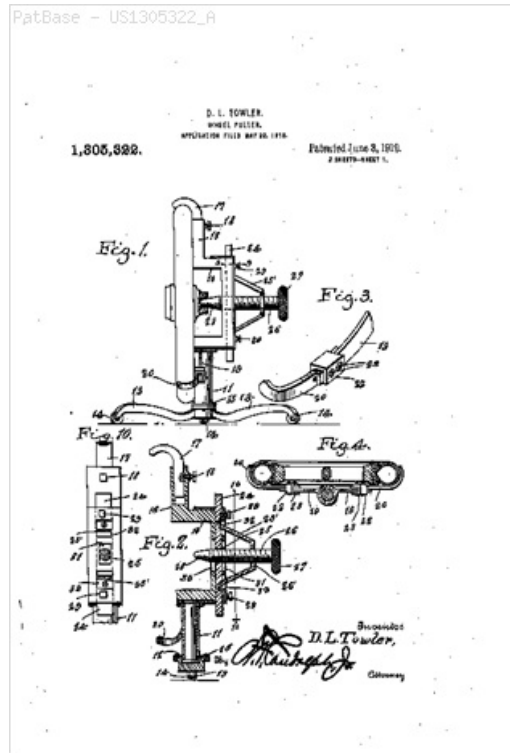
© PatBase

Classifications:

International (IPC 1-7): B60B29/00

CPC: Y10T29/53857 Y10T29/53861 Y10T29/53922 B25B27/023

US: 254/100 29/258 29/259 29/273 414/426

**Family:**

Publication number	Publication date	Application number	Application date
US1305322 A	19190603		00000000

3) Family number: 49400009 (US2011197416A)

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Title: HANDLING DEVICE AND METHOD

Abstract: An apparatus (1) for transporting an article (2). The apparatus (1) includes a frame (3) and an article support (4) operatively coupled to the frame (3). The article support (4) is movable relative to the frame (3) such that the apparatus (1) provides a first configuration for retaining the article (2) and a second configuration for receiving or unloading the article (2). The apparatus (1) includes a plurality of wheels (9) for movement over a substrate surface, and, a stabilising means (6) to engage the substrate surface and stabilise the frame (3) when the apparatus (1) is in the extended position. In use, the apparatus (1) may be used to support a wheel, tyre or other vehicular component (2) during installation, for example, in a confined space such as a mine.

Classifications:

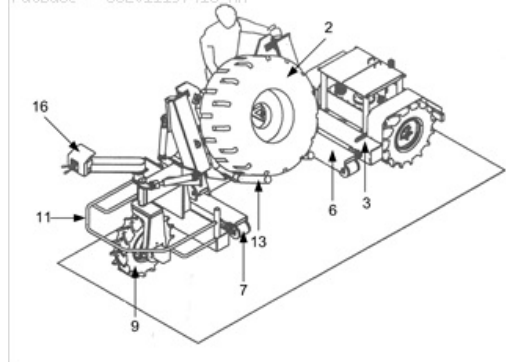
International (IPC 8-9): B23P11/00 B23P19/00 B23Q1/25 B60B29/00 B60B30/00 B60C B60P1/04 B60P1/32 B60S5/00 E21F13/00 (Advanced/Invention); B60C E21D (Subclass/Invention)

CPC: B60B29/00 B60B30/00 Y10T29/49819 Y10T29/49826

European: B60B29/00 B60B30/00

US: 1/1 269/55 269/55S 29/426.3 29/426.300P 29/428 29/428S 414/426 414/426S 414/469 414/469S 414/470 414/470S

PatBase - US2011197416_AA

**Family:**

Publication number	Publication date	Application number	Application date
AU2011200659 AA	20110901	AU20110200659	20110216
AU2011200659 BB	20151001	AU20110200659	20110216
CA2731846 AA	20110817	CA20112731846	20110216
CA2731846 C	20171024	CA20112731846	20110216
CL2011000329 A1	20120127	CL20110000329	20110216
US2011197416 AA	20110818	US20110028120	20110215
US9096095 BB	20150804	US20110028120	20110215
ZA201101237 A	20111026	ZA20110001237	20110216

Priority:

AU20100900650 20100217 AU20110200659 20110216 CA20112731846 20110216

Probable Assignee: JUSTOY PTY LTD

Assignee(s): (std): HEDLEY ROBERT IAN ; JUSTOY PTY LTD

Inventor(s): (std): HEDLEY ROBERT IAN ; IAN HEDLEY ROBERT ; ROBERT IAN HEDLEY

Agent(s): DAVIES COLLISON CAVE; HALFORDS IP; DAVIES COLLISON CAVE PTY LTD; OYEN WIGGS GREEN AND MUTALA LLP; ALESSANDRI Y CIA; KILPATRICK TOWNSEND AND STOCKTON LLP

4) Family number: 30872022 (US2004169167A)

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Title: MOBILE ENGINE LIFT APPARATUS

Abstract: A mobile engine lift apparatus has a base, an extendible vertical support, and pivotable cradle means for lifting, supporting and transporting a motorcycle engine. The apparatus may be rolled into position with the cradle means adjacent a motorcycle engine. Extension means may be engaged to raise the cradle means, thereby lifting the engine away from the motorcycle. The cradle means may be adjusted to a desired position to permit careful removal and replacement of a motorcycle engine without causing damage to the motorcycle or the engine. The apparatus permits lifting and movement of an engine by a single individual in a safe manner. The engine, supported by the cradle means, may then be moved to a preferred location for transfer to a servicing location. The engine may be serviced while supported in the apparatus, or it may be removed from the apparatus for servicing.

Classifications:

International (IPC 8-9): B25H1/00 B66C23/48

B66F11/00 (Advanced/Invention);

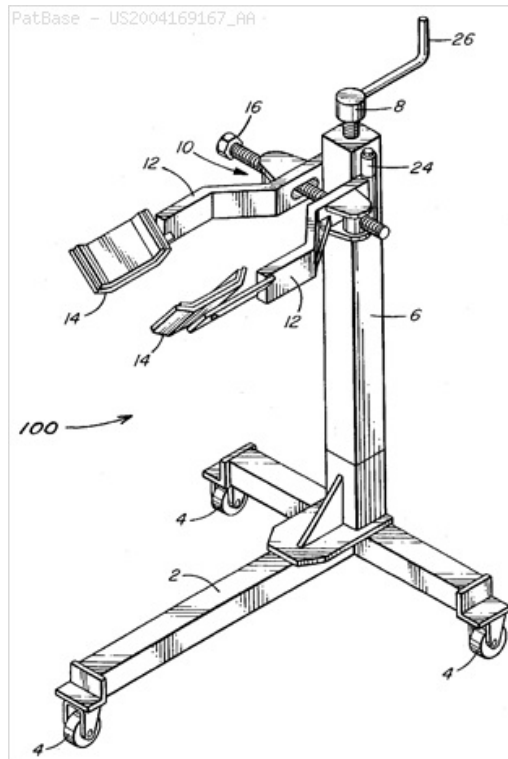
B25H1/00 B66C23/00 (Core/Invention)

International (IPC 1-7): B66F11/00 B66F3/00

CPC: B25H1/0007 B66C23/48

European: B25H1/00B B66C23/48

US: 254/7 254/7B



Family:

Publication number	Publication date	Application number	Application date
CA2418797 AA	20040813	CA20032418797	20030213
US2004169167 AA	20040902	US20030374422	20030227

Priority:

CA20032418797 20030213 US20030374422 20030227

Probable Assignee: HAI JOSEPH REINELT

Assignee(s): (std): REINELT HAL ; REINELT HAL JOSEPH ; ROBLIN FRANK

Assignee(s): HAI JOSEPH REINELT

Inventor(s): (std): REINELT HAL ; REINELT HAL JOSEPH ; ROBLIN FRANK

Agent(s): VERMETTE AND CO

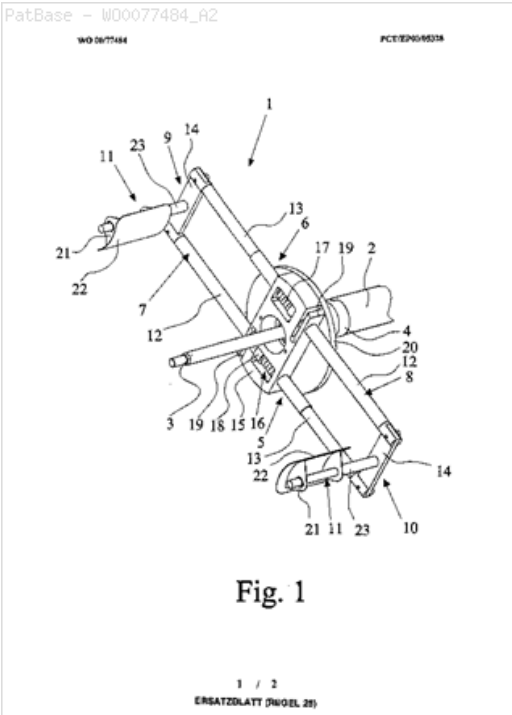
5) Family number: 30537049 (WO0077484A2)

© PatBase

Title: CLAMPING MECHANISM FOR CLAMPING A WHEEL OF A MOTORCYCLE ONTO THE SHAFT OF A BALANCING MACHINE

Abstract: The invention relates to a clamping mechanism (1) for clamping the wheel of a motorcycle onto the shaft (2) of a balancing machine. The aim of the invention is to provide a clamping mechanism (1) that can be easily adapted to different wheel diameters. To this end, the mechanism comprises a clamping pin (3) that is fixed on the shaft (2) of the balancing machine and that is coaxial with regard to the shaft (2) in the fixed state. The mechanism is further provided with a clamping device (5) that comprises a multi-limb arm (6) that is arranged transversally with respect to the clamping pin (3). Each end (9, 10) of said arm is provided with a mounting device (11). Said mounting device (11) is provided with a pivoted support element (21) with a support face (22) which is positioned against the wheel and which catches the wheel by adhesive forces. The invention is further characterized in that the arm (6) can be adjusted in the radial direction.

Classifications:
International (IPC 8-9): G01M1/04 (Advanced/Invention);
G01M1/00 (Core/Invention)
International (IPC 1-7): G01M1/02 G01M1/04
CPC: G01M1/045
European: G01M1/04B



Family:

Publication number	Publication date	Application number	Application date
 AU200056799 A1	20010102	AU20000056799	20000609
 AU200056799 A5	20010102	AU20000056799D	20000609
 DE19934345 A1	20010111	DE19991034345	19990722
 WO0077484 A2	20001221	WO2000EP05328	20000609
 WO0077484 A3	20010525	WO2000EP05328	20000609

Priority:

DE19991027316 19990615 DE19991030941 19990705 DE19991034345 19990722
WO2000EP05328 20000609

Probable Assignee: HAWEKA GMBH

Assignee(s): (std): HAWEKA GMBH ; WARKOTSCH DIRK

Assignee(s): HAWEKA AUSWUCHTTECHNIK HORST WARKOTSCH GMBH

Inventor(s): (std): WARKOTSCH DIRK

Inventor(s): DIRK WARKOTSCH

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

6) Family number: 55144071 (FR2990190B)

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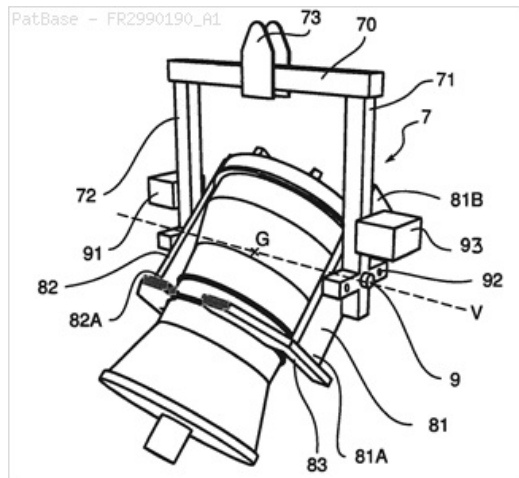
Title: OUTIL DE MANUTENTION D'UN MODULE DE MOTEUR D'AERONEF

Abstract: Source: FR2990190B [FR] Un outil (6) de manutention d'un module (2) de moteur d'aeronef comprenant un corps de support (7) ayant une forme de U inverse definissant une poutre horizontale (70) et deux branches verticales (71, 72), et deux bras de fixation (81, 82) a un module (2) de moteur d'aeronef, chaque bras de fixation (81, 82) etant relie a une branche (71, 72) du corps de support (7) par une liaison pivot (9) de maniere a permettre la rotation du module (2) autour d'un axe de rotation horizontal (V) entre les branches (71, 72) du corps de support (7).

Classifications:

International (IPC 8-9): B64F5/00 B66F11/00 (Advanced/Invention)

CPC: B64F5/50



Family:

Publication number	Publication date	Application number	Application date
FR2990190 A1	20131108	FR20120054030	20120502
FR2990190 B1	20150619	FR20120054030	20120502

Priority:

FR20120054030 20120502

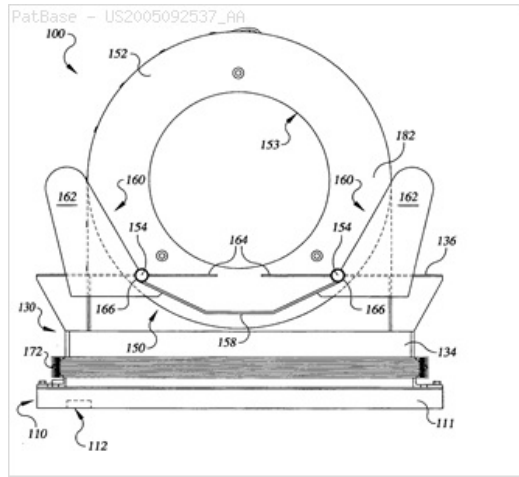
Probable Assignee: SNECMA
Assignee(s): (std): SNECMA
Inventor(s): (std): TAILPIED FABRICE ; CLAYE ANTHONY
Inventor(s): FABRICE TAILPIED ; ANTHONY CLAYE
Agent(s): GEVERS FRANCE; GEVERS AND ORES

7) Family number: 31871107 (US2005092537A) © PatBase

Title: AIR POWERED TIRE ASSEMBLY HANDLING DEVICE

Abstract: A device for moving a tire assembly about a floor surface and mounting the tire assembly to a vehicle, the device includes a platform configured for moving about the floor surface, a pneumatic source for providing a layer of air between the platform and the floor surface beneath said platform, and a support mounted on the platform. The support defining a horizontally extending central axis and is configured to receive and support the tire assembly. An elevator is connected to the platform and the support, and is configured to raise and lower the support relative to said platform. The device is supported on the layer of air so that the platform is movable above the floor surface.

Classifications:
International (IPC 8-9): B60V1/00 B66F3/35 (Advanced/Invention); B60V1/00 B66F3/24 (Core/Invention)
International (IPC 1-7): B60V1/00
CPC: B66F3/35
European: B60V1/00 B66F3/35
US: 180/116



Family:

Publication number	Publication date	Application number	Application date
US2005092537 AA	20050505	US20030696820	20031030

Priority:

US20030696820 20031030

Probable Assignee: AIR ASSISTED PRODUCTS INC
Assignee(s): (std): SZELIGA LARRY
Assignee(s): AIR ASSISTED PRODUCTS INC
Inventor(s): (std): SZELIGA LARRY
Agent(s): THOMAS KAYDEN HORSTEMEYER AND RISLEY LLP

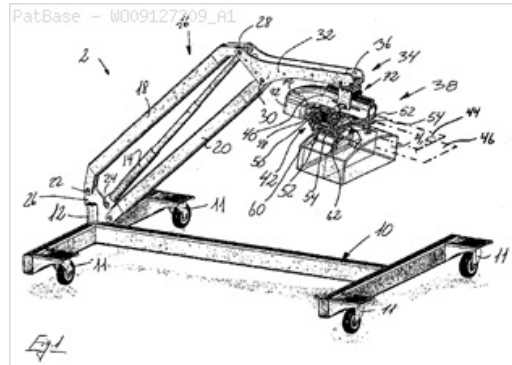
Title: LIFTING TOOL

Abstract: Replacement of heavy spare parts such as break calibers (4), break drums (6) and break discs (8) in workshops for lorries, trucks, semi trailers and trailers often leads to performance of heavy lifting in ergonomically awkward working positions, why this work is relatively time-consuming and worn. For the remedy thereof, there is indicated a lifting tool (2) for said spare parts (4, 6, 8) which is peculiar in that it comprises a wheel carried chassis (10) comprising a raiseable and lowerable and pivotally mounted lever arm (16), in the free end of which is arranged a pivotally mounted, tiltable gripping organ (38) comprising a gripping head (42) with mutually cooperating pivotally mounted organs (48, 50) with jaw plates (52, 54) each comprising similar take outs (56, 58) for detachable mounting of therewith cooperating and from said first planes (44, 46) opposite and projecting jaw parts (60, 62) for engagement of said spare parts (4, 6, 8) and where the first organs (48, 50) are interconnected by an axially displaceable clamping part (64). It is hereby achieved that said heavy spare part (4, 6, 8) can be lifted up to the mounting position, and located in the correct clamping position without using significant manual muscle power, and thus the installation work can be performed more swift.

Classifications:**International (IPC 8-9):** B60B29/00 B60S9/14 B66F5/00

B66F5/04 (Advanced/Invention);

B60B29/00 B60S9/00 B66F5/00 (Core/Invention)

CPC: B60B29/00 B66C1/427 B66C23/48**European:** B60B29/00 B66C1/42D2 B66C23/48**Family:**

Publication number	Publication date	Application number	Application date
DK176850 B1	20091207	DK20080000464	20080330
DK200800464 A5	20091001	DK20080000464	20080330
WO09127209 A1	20091022	WO2009DK50073	20090330

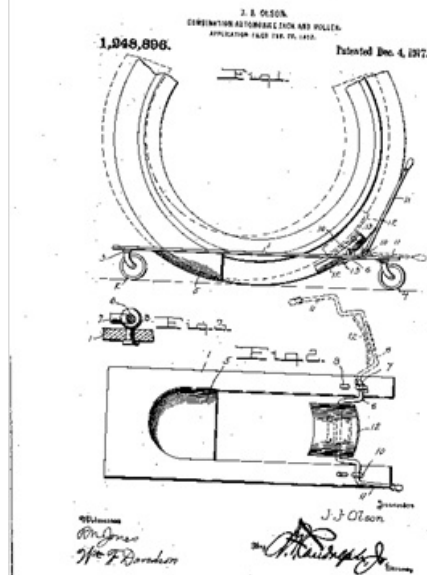
Priority:

DK20080000464 20080330

Probable Assignee: STACK O MATIC APS**Assignee(s):** (std): HOEJ KARL ; STACK O MATIC APS**Inventor(s):** (std): HOEJ KARL ; KARL HOEJ**Agent(s):** HAMMELSVANG CONSULT V OLE HAMMELSVANG

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

Title: COMBINATION AUTOMOBILE JACK AND ROLLER.**Classifications:****International (IPC 1-7):** B60S13/00 B66F1/00**CPC:** B60B29/002**US:** 104/32.1 280/43.17 280/62 280/79.4 414/428

**Family:**

Publication number	Publication date	Application number	Application date
US1248896 A	19171204	US19170151547	19170228

Priority:

US19170151547 19170228

Probable Assignee:

OLSON JOHN J

Assignee(s): (std):

OLSON JOHN J

Assignee(s):

JOHN J OLSON

Inventor(s): (std):

OLSON JOHN J

Inventor(s):

JOHN J OLSON

10) Family number: 55633127 (US2015096947A)

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Title: ADJUSTABLE WHEEL RACK

Abstract: In one embodiment, a wheel rack includes a locking frame plate having a first L-shaped plate, a second L-shaped plate, and a stopper plate. A ball seat is fixed to the locking frame plate, and a rod has a first end with a sphere attached thereto. The locking frame plate is configured to be fixed to a jamb of a vehicle lift. In another embodiment, a wheel rack includes a locking frame plate having a first L-shaped plate, a second L-shaped plate, and a stopper plate. A ball seat is fixed to the locking frame plate. The wheel rack also includes a locking seat and a rod that has an end with a sphere attached thereto. The locking frame plate is configured to be fixed to a jamb of a vehicle lift.

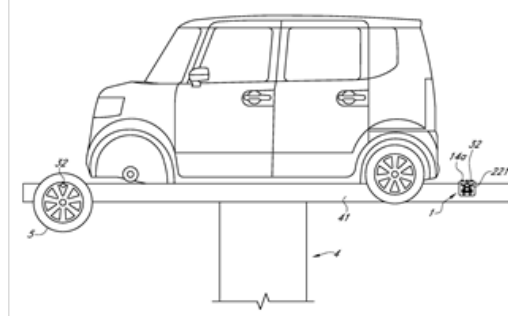
Classifications:**International (IPC 8-9):** A47F7/04 B25H3/04 B60B29/00 B60B30/00

B60B30/06 B60S13/00 B66F7/26 B66F7/28

F16M13/02 (Advanced/Invention)

CPC: B66F7/26 B60B29/00 B60B30/06 B66F7/28 Y10T29/49492 A47F7/04**US:** 1/1 211/23 29/894.3

PatBase - US2015096947_AA

**Family:**

Publication number	Publication date	Application number	Application date
AU2014200442 AA	20150423	AU20140200442	20140128
AU2014200442 BB	20160414	AU20140200442	20140128
CA2840633 AA	20150404	CA20142840633	20140123
CA2840633 C	20160802	CA20142840633	20140123
CN203510185 U	20140402	CN201320625529U	20131011

DE602014005282 D1	20170119	DE201460005282T	20140512
EP2857222 A1	20150408	EP20140167961	20140512
EP2857222 B1	20161207	EP20140167961	20140512
TWM470022 Y	20140111	TW20130218617U	20131004
US2015096947 AA	20150409	US20130098074	20131205
US9174829 BB	20151103	US20130098074	20131205

Priority:

TW20130218617U 20131004 CN201306255293 20131011 CN201320625529U 20131011
US20130098074 20131205 EP20140167961 20140512

Probable Assignee: MVP HK IND INC

Assignee(s): (std): MVP H K IND LTD ; MVP HK IND INC ; MVP HK IND LTD

Assignee(s): MVP HK INDUSTRIES LTD ; SHAW WILLIAM

Inventor(s): (std): WILLIAM SHAW ; SHAW WILLIAM

Inventor(s): SHAW WILLIAM SANTA CLARA

Agent(s): SPRUSON AND FERGUSON; RICHES MCKENZIE AND HERBERT LLP; M PATENT GROUP; LATHROP AND GAGE LLP

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

11) Family number: 6357152 (US5244331A)

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Title: APPARATUS FOR POSITIONING A ROTARY MEMBER ON A BALANCING MACHINE

Abstract: Apparatus for positioning a rotary member such as a vehicle wheel at a balancing machine in such a way that the rotary member can be lifted into a position, at the level of the balancing machine measuring spindle, in which the longitudinal center lines of the measuring spindle and the rotary member are aligned with each other and the rotary member can be moved concentrically relative to the measuring spindle. The apparatus has two equal-length positioning arms which are pivotally connected at an apex point in a scissor-like arrangement and which are pivotable uniformly relative to each other about their connecting point in a plane which is perpendicular to the measuring spindle. The positioning arms connecting point is displaceable along a line which is perpendicular to the longitudinal center line of the measuring spindle and which coincides with the line bisecting the angle formed by the positioning arms. A support member for supporting the rotary member from below and an abutment member for bearing against the rotary member in its upper portion are mounted to respective ones of the positioning arms at mounting points such that upon displacement of the positioning arms in the opposite direction to the longitudinal center line of the measuring spindle, the mounting points of the support member and the abutment member move along a common straight line towards the longitudinal center line of the measuring spindle.

Classifications:

International (IPC 8-9): G01M1/04 (Advanced/Invention);

G01M1/00 (Core/Invention);

G01M (Subclass/Invention)

International (IPC 1-7): B25J18/00 B60B29/00 B60B30/00 B66F11/00

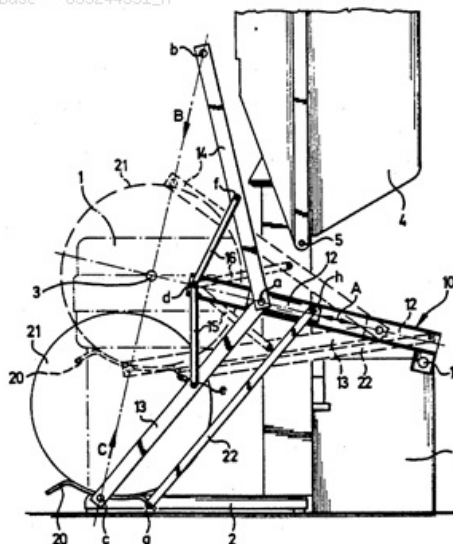
G01M G01M1/02 G01M1/14 G05D3/10

CPC: Y10S414/13 G01M1/045 Y10T29/53922

European: G01M1/04B

US: 29/273 414/428 414/429 414/917

PatBase - US5244331_A



Family:

Publication number	Publication date	Application number	Application date
DE4109187 A1	19920924	DE19914109187	19910320
DE4109187 C2	19930923	DE19914109187	19910320
FR2674330 A1	19920925	FR19920001613	19920213
FR2674330 B1	19940513	FR19920001613	19920213
IT1254833 B	19951011	IT1992MI00650	19920319
ITMI920650 A0	19920319	IT1992MI00650	19920319
ITMI920650 A1	19920921	IT1992MI00650	19920319
US5244331 A	19930914	US19920832999	19920210

Priority:

DE19914109187 19910320

Probable Assignee: HOFMANN WERKSTATT TECHNIK

Assignee(s): (std): HOFMANN WERKSTATT TECHNIK

Assignee(s): HOFMANN WERKSTATT TECHNIK GMBH ; HOFMANN WERKSTATT TECHNIK GMBH 6102 PFUNGSTADT DE ; HOFMANN WERKSTATT TECHNIK GMBH 64319 PFUNGSTADT DE
Inventor(s): (std): KLAUS RUHL ; RUEHL KLAUS ; RUHL KLAUS
Inventor(s): RUEHL KLAUS 8754 GROSS OSTHEIM DE

12) Family number: 44898164 (US2010092269A)

© PatBase

Title: WHEEL HANDLING APPARATUS

Abstract: A wheel handling apparatus includes a wheel engaging arrangement for holding a wheel assembly that is to be removed from a vehicle. The wheel engaging arrangement includes a first and a second wheel support arm, each of which is curved to follow the circumference of the wheel assembly to define a cradle in which the wheel assembly can rest as it is removed from the vehicle. The wheel handling apparatus further includes a wheel pivoting arrangement whereby the wheel engaging arrangement can be moved between a first orientation and a second orientation thus causing the wheel assembly held by the wheel engaging arrangement to be moved between a first and second orientation.

Classifications:

International (IPC 8-9): B60B29/00 B60S9/08 B65G7/00 B66F3/24

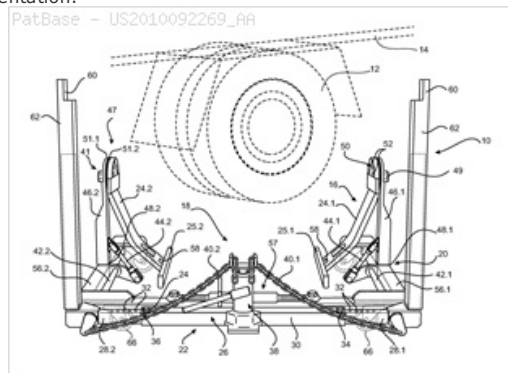
B66F7/08 (Advanced/Invention);

B60B29/00 B60S9/00 B66F3/24 B66F7/06 (Core/Invention)

CPC: B60B29/002 B66F7/246

European: B60B29/00B B66F7/24D

US: 280/79.4 414/426 414/426P 414/429



Family:

Publication number	Publication date	Application number	Application date
AU2009225278 AA	20100429	AU20090225278	20091009
AU2009225278 BB	20140814	AU20090225278	20091009
US2010092269 AA	20100415	US20090578099	20091013
US8137044 BB	20120320	US20090578099	20091013

Priority:

AU20080905264 20081010 AU20090225278 20091009

Probable Assignee: PROWSE HOLDINGS PTY LTDAS D A SLEE AND CO

Assignee(s): (std): PROWSE HOLDINGS PTY LTD ; SLEE DAVID

Assignee(s): PROWSE HOLDINGS PTY LTDAS D A SLEE AND CO

Inventor(s): (std): SLEE DAVID

Inventor(s): DAVID SLEE

Agent(s): WRAYS; ARMOUR IP; ARMOUR IP PTY LTD; CHARTER IP LLC; MATTHEW J

13) Family number: 31339166 (US2004226156A)

© PatBase

Title: TIRE CHANGE APPARATUS

Abstract: An apparatus for to assist in the changing of tires on cars, light trucks and heavy trucks. The apparatus assists in raising and lowering the tire and wheel for positioning on the stud bolts, reducing abrasion and wear on the holes in the wheels, and in moving the tire and wheel toward and away from the vehicle.

Classifications:

International (IPC 8-9): B60C25/02 B60C25/04 (Advanced/Invention);

B60C25/00 (Core/Invention)

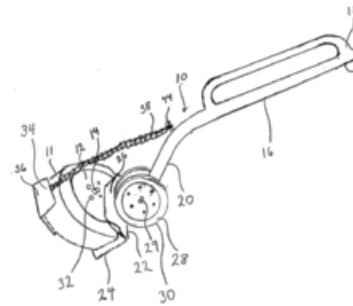
International (IPC 1-7): B25B27/14

CPC: B60C25/02 B60C25/04 Y10T29/53922

European: B60C25/02 B60C25/04

US: 29/273

FIG. 1

**Family:**

Publication number	Publication date	Application number	Application date
US2004226156 AA	20041118	US20040846881	20040513

Priority:

US20030469954P 20030513 US20040846881 20040513

Probable Assignee: STOREY DAN

Assignee(s): (std): STOREY DAN ; STORRY JOYCE

Inventor(s): (std): STOREY DAN ; STORRY JOYCE

14) Family number: 21821177 (US2453575A)

© PatBase

Title: Tongue actuated brake for hand trucks

Abstract: 1. In a truck, the combination with the truck frame, a swivelled steering wheel and a steering and draft tongue having a steering connection to said steering wheel swivel and pivoted to swing also in vertical planes between a substantially upright position and a position below draft level, of a brake for the steering wheel and means for operating said brake comprising a vertically slidable brake-depressing plunger extending through said steering wheel swivel, cooperating means carried by said plunger and said steering tongue respectively to effect a depression of said plunger to apply said brake when said steering tongue is moved into its upright position and other cooperating means carried by said plunger and said steering tongue respectively to effect a depression of said plunger to apply said brake when said steering tongue is moved into its position below draft level, said two plunger depressing means being independent of each other and both being inoperative between said approximately extreme tongue positions.

Classifications:

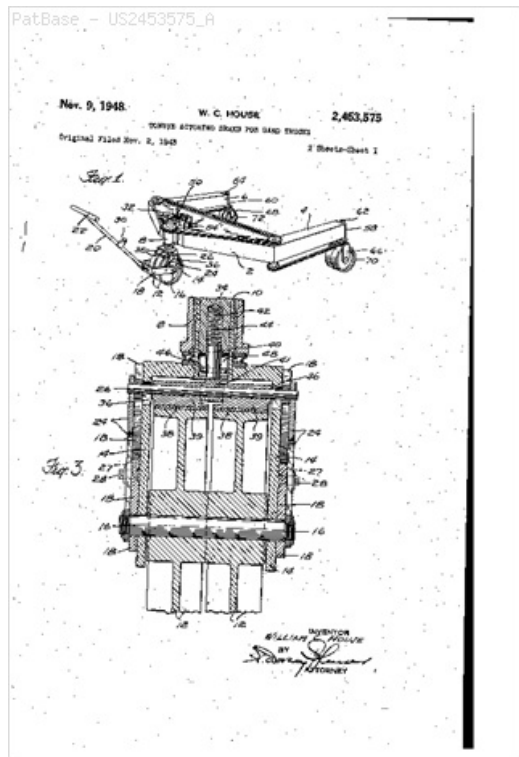
International (IPC 8-9): B62B3/065 B62B5/04 (Advanced/Invention);
B62B3/04 B62B5/00 (Core/Invention)

International (IPC 1-7): B62B3/00 B62B5/04 B62B9/08 B64F1/22
B66F9/06 B66F9/12

CPC: B62B5/04 B62B3/0618 B62B2301/00 Y10T16/195

European: B62B3/06F B62B5/04 L62B301/00

US: 16/35R 188/119 188/27 188/74 280/47.11 280/88 414/427 414/429



Family:

Publication number	Publication date	Application number	Application date
US2388692 A	19451113	US19430508711	19431102
US2453575 A	19481109	US19450627823	19451110

Priority:

US19430508711 19431102 US19450627823 19451110

Probable Assignee: LYON RAYMOND CORP

Assignee(s): (std): LYON RAYMOND CORP

Inventor(s): (std): HOUSE WILLIAM C

15) Family number: 1273226 (US3951280A)

© PatBase

Title: Vehicle-transporting apparatus

Abstract: There is disclosed a vehicle transporting apparatus comprising a mounting for attachment to the rear of a transporting vehicle, a rearwardly extending boom one end of which is pivotally connected to the mounting for up and down swinging movement of the boom on the mounting, the free end of the boom having mounted thereon two supports for the wheels of a vehicle to be transported, which supports are spaced horizontally apart in a direction transverse to the direction of travel of the vehicle, power means connected to the boom to effect swinging movement thereof between a loading position where the supports rest on the ground, a transporting position where the supports are raised a short distance above the ground, and a stowed position where the boom extends upwardly from the mounting, and releasable detent means between the boom and the mounting to retain the boom in one or more of said positions.

Classifications:

International (IPC 8-9): B60P3/12 (Advanced/Invention);

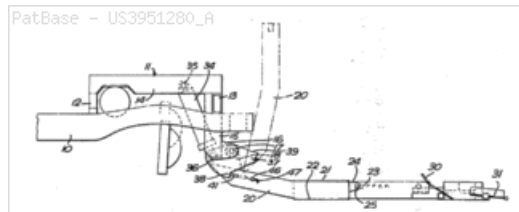
B60P3/12 (Core/Invention)

International (IPC 1-7): B65G47/00

CPC: B60P3/125

European: B60P3/12B

US: 414/428 414/563



Family:

Publication number	Publication date	Application number	Application date
US3951280 A	19760420	US19740525663	19741120

Priority:

US19740525663 19741120

Probable Assignee: RATCLIFF TAIL LIFTS LTD

Assignee(s): (std): RATCLIFF TAIL LIFTS LTD

Assignee(s): JOHN RATCLIFF TAIL LIFTS LIMITED ; JOHN RATCLIFF TAIL LIFTS LTD

Inventor(s): (std): PECK ALBERT WILLIAM

Title: Wheel engaging vehicle lift

Abstract: A wheel engaging vehicle lift for raising a vehicle relative to the ground and for supporting the vehicle in a raised position includes first and second support columns standing vertically upward from the ground. A first carriage is movably attached to the first support column and a second carriage is movably attached to the second support column. A first pair of arms extend away from the first carriage and a second pair of arms extend away from the second carriage, wherein the first and second pairs of arms are each rotatable about a substantially vertical axis proximate to a first end of the arms. A wheel engaging adapter may be removably secured proximate to an opposite end of the first and second pairs of arms, wherein the adapters are each rotatable about a substantially vertical axis proximate to the second end. The structure of the invention enables a conventional two-post frame engaging lift to be easily and readily converted into a two-post wheel engaging vehicle lift, and vice versa.

Classifications:

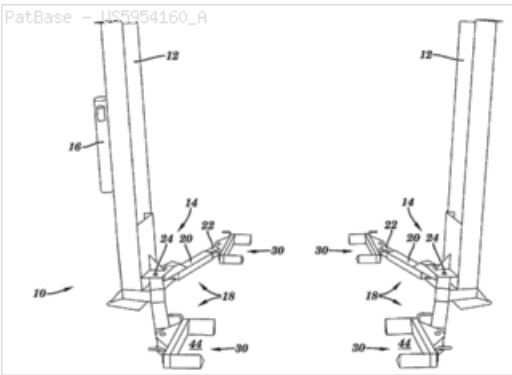
International (IPC 8-9): B66F7/04 B66F7/28 (Advanced/Invention)

International (IPC 1-7): B66F7/00 B66F7/28

CPC: B66F7/04 B66F7/28

European: B66F7/04 B66F7/28

US: 187/203 187/210 187/219 254/89H 414/427



Family:

Publication number	Publication date	Application number	Application date
US5954160 A	19990921	US19960758650	19961127

Priority:

US19960758650 19961127

Probable Assignee: MOHAWK RESOURCES LTD

Assignee(s): (std): MOHAWK RESOURCES LTD

Inventor(s): (std): VERESKO RONALD W ; WELLS SR RICKEY D

Title: TRUCK WHEEL AND TIRE DISMOUNTER AND CHANGER

Abstract: (Claim 1) 1. A tire and wheel dolly comprising, in combination, a portable platform, a semi-circular clamp mounted on said platform for rotation within a vertical plane, each end of said clamp having a swivel mounted curved plate for releasably supporting the diametrically opposite sides of a wheel assembly for rotation thereof about the wheel diameter, an adjustable wheel block removably secured to said platform for rigidly supporting the wheel assembly in a horizontal plane independently of said clamp, said clamp comprising an integral transverse shaft rotatably secured to said platform, a pinion fixed to said shaft, a rack gear supported for a reciprocating longitudinal movement on said platform in constant meshing engagement with said pinion, and hydraulic means for selectively moving said rack gear between an extended and a retracted position. ''

Classifications:

International (IPC 8-9): B60B29/00 (Advanced/Invention);

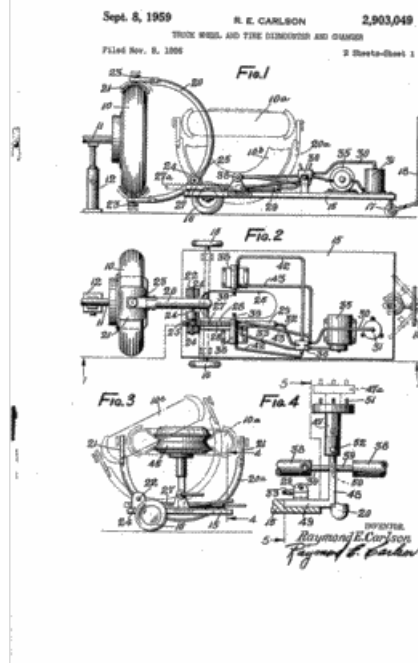
B60B29/00 (Core/Invention)

International (IPC 1-7): B60B29/00

CPC: B60B29/002

European: B60B29/00B

US: 157/1.28 157/19 414/427

**Family:**

Publication number	Publication date	Application number	Application date
US2903049 A	19590908	US19560621071	19561108

Priority:

US19560621071 19561108

Probable Assignee:

CARLSON RAYMOND E

Assignee(s): (std):

CARLSON RAYMOND E

Inventor(s): (std):

CARLSON RAYMOND E

18) Family number: 5167294 (US4629388A)

© PatBase

Title: Towing aid for vehicles

Abstract: A towing apparatus for a rail bound vehicle is described. The towing apparatus includes both a lifting device for lifting the wheel load off of a defective wheel, tire or axle and a mobile support which supports the load, normally supported by the defective wheel, during a towing operation. The lifting device occupies a minimum of space and is supported by the road surface rather than by the rail. The mobile support may be conveniently and positively engaged with a defective wheel hub under conditions wherein a minimum of maneuvering space is available.

Classifications:

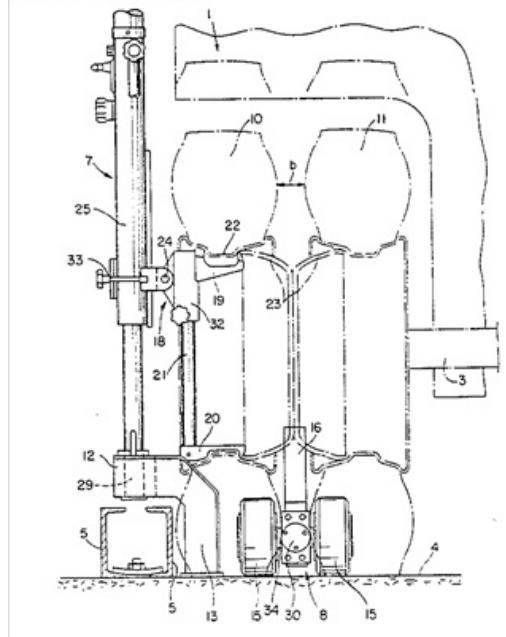
International (IPC 8-9): B60P3/12 B60S13/00 B61B13/00 B66F11/00 B66F13/00 B66F3/24 B66F3/36 (Advanced/Invention); B60P3/12 B60S13/00 B61B13/00 B66F11/00 B66F13/00 B66F3/24 (Core/Invention)

International (IPC 1-7): B60F1/00 B60P3/07 B60P3/12 B60S13/00 B60S9/14 B61B13/00 B62B5/00 B66F11/00 B66F13/00 B66F19/00 B66F3/24 B66F3/36

CPC: B60P3/127 B60S13/00 B66F3/24 B66F13/00

European: B60P3/12B1 B60S13/00 B66F13/00 B66F3/24

US: 280/47.131 280/47.13R 280/47.15 414/427

**Family:**

Publication number	Publication date	Application number	Application date
AU198431701 A1	19850509	AU19840031701	19840808
AU549906 B2	19860220	AU19840031701	19840808
DE3331342 A1	19850314	DE19833331342	19830831
DE3331342 C2	19870604	DE19833331342	19830831
GB2170179 A1	19860730	GB19850002280	19850130
GB2170179 B2	19890111	GB19850002280	19850130
GB8502280 A0	19850227	GB19850002280	19850130
JP2033539 B4	19900727	JP19850023708	19850212
JP61184140 A2	19860816	JP19850023708	19850212
NL8500318 A	19860901	NL19850000318	19850206
US4629388 A	19861216	US19850699270	19850207

Priority:

DE19833331342 19830831 GB19850002280 19850130 US19850699270 19850207
 JP19850023708 19850212

Probable Assignee: DAIMLER AG

Assignee(s): (std): DAIMLER AG ; DAIMLER BENZ AG

Assignee(s): DAIMLER BENZ AG 7000 STUTTGART DE ; DAIMLER BENZ A G

Inventor(s): (std): RIEMER BERND ; MEHREN HERBERT

Inventor(s): MEHREN HERBERT 7000 STUTTGART DE ; BERND RIEMER ; BERUNTO RIIMERU ; HERBERT MEHREN ; HERUBERUTO MEEREN

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD

19) Family number: 11034306 (US5181821A)

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Title: Brake drum support apparatus

Abstract: A brake drum support apparatus for use with a vehicle having a brake drum and for supporting the brake drum as the brake drum is removed from the vehicle. The brake drum support apparatus includes a base for resting on a support surface; a drum cradle for cradling the brake drum; and a drum cradle brace structure for attaching the drum cradle to the base.

Classifications:

International (IPC 8-9): B60B29/00 B60T17/22 (Advanced/Invention);

B60B29/00 B60T17/18 (Core/Invention)

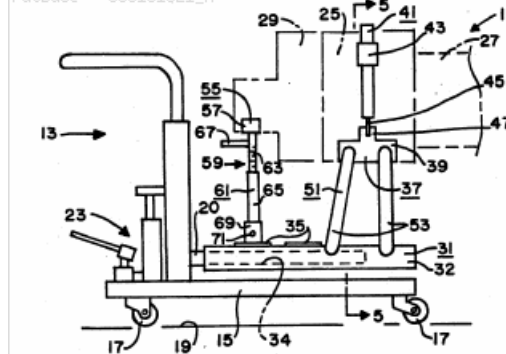
International (IPC 1-7): B60B30/10

CPC: B60B29/002 B60T17/221

European: B60B29/00B B60T17/22B

US: 254/133R 269/17 414/427 414/607

PatBase - US5181821_A



Family:

Publication number	Publication date	Application number	Application date
US5181821 A	19930126	US19910716268	19910617

Priority:

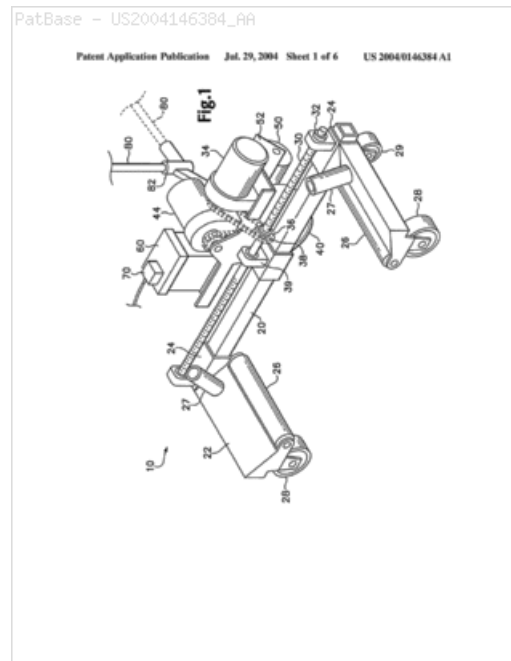
US19910716268 19910617

Probable Assignee: KING SR CONNIE L**Assignee(s):** (std): KING SR CONNIE L**Inventor(s):** (std): KING SR CONNIE L**20) Family number: 30744319 (US2004146384A)**

© PatBase

Title: METHOD AND APPARATUS FOR MOVING A VEHICLE

Abstract: An apparatus according to embodiments of the invention includes a set of moveable jaws mounted to a frame. One or both of the jaws may include a lifting roller. When properly operated, the jaws can be brought together to lift and cradle a wheel of a vehicle or trailer. Once lifted, a powered device such as a wheel, which is also mounted to the frame, can be energized to move the entire vehicle or trailer.

Classifications:**International (IPC 8-9):** B60S13/00 (Advanced/Invention);
B60S13/00 (Core/Invention)**International (IPC 1-7):** B65G7/00**CPC:** B60S13/00**European:** B60S13/00**US:** 414/426**Family:**

Publication number	Publication date	Application number	Application date
US2004146384 AA	20040729	US20030627846	20030724

Priority:

US20020398433P 20020724

US20030627846 20030724

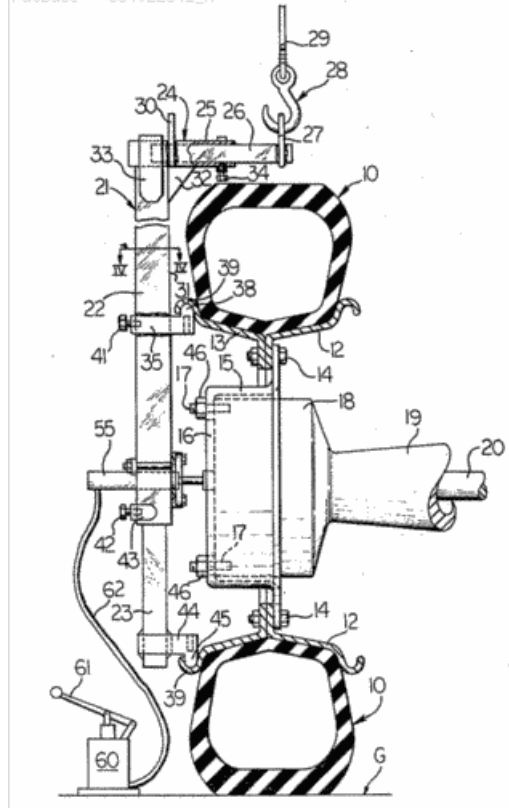
Probable Assignee: WHELAN PATRICK J**Assignee(s):** (std): WHELAN PATRICK J**Inventor(s):** (std): WHELAN PATRICK J**21) Family number: 1393329 (US4022341A)**

© PatBase

Title: Lifting device for tire-rim assemblies

Abstract: A lifting device for handling earth moving vehicle tire rim assemblies, which may weigh several thousand pounds, requiring machinery for lifting and maneuvering such assemblies for removal from an earth moving vehicle and replacement onto such a vehicle. The assembly can be suspended from the end of a lifting crane to lift and properly maneuver the weight involved and provides a standard which can be attached to the rim assembly exteriorly of the tire thereon and is so shaped and proportioned for proper maneuvering of the assembly relative to an earth moving vehicle for removal and attachment of the assembly to the vehicle.

Classifications:**International (IPC 8-9):** B60B29/00 (Advanced/Invention);
B60B29/00 (Core/Invention)**International (IPC 1-7):** B60B29/00**CPC:** B60B29/001**European:** B60B29/00A**US:** 214/330 294/93 414/426 414/729

**Family:**

Publication number	Publication date	Application number	Application date
US4022341 A	19770510	US19760665835	19760311

Priority:

US19760665835 19760311

Probable Assignee: CATERPILLAR INC**Assignee(s):** (std): CATERPILLAR TRACTOR CO**Assignee(s):** CATERPILLAR INC ; CATERPILLAR INC A CORP OF DE**Inventor(s):** (std): LINDQUIST JOHN F**22) Family number: 8929336 (US5257443A)**

© PatBase

Title: TRANSPORT SYSTEM FOR TIRE DEMOUNTING AND MOUNTING SERVICE OPERATIONS

Abstract: A nut runner can be moved along fixed rails and a moving rail. A tire, after being removed by using the nut runner, is supported on a tire dolly, and the tire is transported to an outer rail. Here, the tire is held by a hanger, and is transported to an operating machine. A movable block is provided with a sensor, and a plurality of stop points are set in each rail. Upon completion of the operation by the operating machine, the tire is held again by the hanger, and is transported to a predetermined position along the outer rail. The tire is then supported on the tire dolly, and is temporarily fixed to a vehicle. In this state, the nut runner is moved, and nuts are tightened by means of this nut runner, thereby completing the tire demounting and mounting operation.

Classifications:**International (IPC 8-9):** B23P19/06 B23P21/00 B60B29/00 B60C25/00

B62D65/00 (Advanced/Invention);

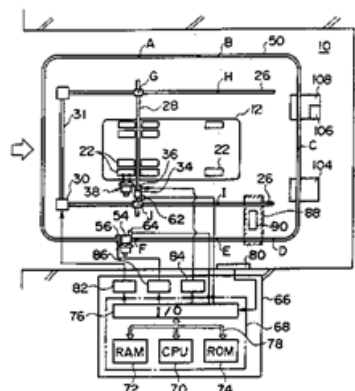
B23P19/06 B23P21/00 B60B29/00 B60C25/00 B62D65/00 (Core/Invention)

International (IPC 1-7): B23P19/04 B23P19/06 B23P21/00 B60B29/00

B60C25/00 B62D65/00

CPC: Y10T29/51 Y10T29/53022 B60B29/002**European:** B60B29/00B**US:** 29/330R 29/33R 29/705 414/426

FIG. 1

**Family:**

Publication number	Publication date	Application number	Application date
EP0544150 A2	19930602	EP19920119329	19921112
EP0544150 A3	19931222	EP19920119329	19921112
JP5139129 A2	19930608	JP19910310846	19911126
US5257443 A	19931102	US19920972845	19921106

Priority:

JP19910310846 19911126

Probable Assignee: BRIDGESTONE CORP**Assignee(s):** (std): BRIDGESTONE CORP**Assignee(s):** BRIDGESTONE CORPORATON**Inventor(s):** (std): KAMANOI FUMIO ; KANATOMI TOKIO ; SATO MITSUO ; TANIMURA SHUZO ; TANIMURA SYUZO**Designated states:** DE ES IT NL**23) Family number: 12695341 (FR2700301A)**

© PatBase

Title: Handling trolley for e.g. heavy vehicle wheels

Abstract: The trolley includes gripping system having four fingers (15) at the ends of beams (1) which grip the rolling surface of the wheel (11) when the screw-jack system (2) draws them together, guided by the slides (14) and driven by the bevel gears (5) which are driven by the handle (4). The assembly can rotate through 360 degrees on the pivot (6) which is concentric with the drive shaft of the bevel gears and is lifted by the jack (7). The jack (10) moves the lifting jack sideways for accurate positioning of the finger assembly. The whole assembly is mounted on the beam (8), which has a wheel at each end and a towbar which has a parking jack (12) and may be fitted with a towing hitch (13) or manual handles (9).

Classifications:

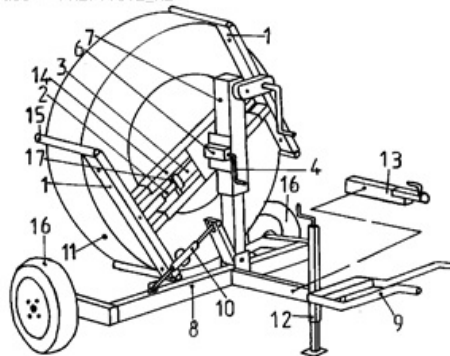
International (IPC 8-9): B60B29/00 B60B30/10 (Advanced/Invention);
B60B29/00 B60B30/00 (Core/Invention)

International (IPC 1-7): B60B30/10 B62B1/22

CPC: B60B29/002

European: B60B29/00B

PatBase - FR2700301_A1

**Family:**

Publication number	Publication date	Application number	Application date
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FR2700301 A1	19940713	FR19930000206	19930108
FR2700301 B1	19980605	FR19930000206	19930108

Priority:

FR19930000206 19930108

Probable Assignee: LEROUX XAVIER JACQUES MARIE

Assignee(s): (std): FESSELIER LAURENT FRANCOIS FER ; LEROUX XAVIER ; LEROUX XAVIER JACQUES MARIE

Assignee(s): FESSELIER LAURENT FRANCOIS FERNA

Inventor(s): (std): FESSELIER LAURENT FRANCOIS FER ; JACQUES ; LAURENT FESSELIER ; LEROUX XAVIER

Inventor(s): JACQUES MARIE ; FESSELIER LAURENT FRANCOIS FERNAND ; FESSELIER LAURENT FRANCOIS FERNANDLEROUX XAVIER

24) Family number: 12972345 (FR2742696A)

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Title: Wheel lifter for use when changing vehicle wheels

Abstract: The wheel changing aid consists of a mechanism for lifting the wheel, which permits the lifting of all types of wheels. A system allows the wheel to be rotated, in order to allow the holes in the wheel to be aligned with the wheel studs. It is constructed as a fixed part, which consists of a vertical mast (01) equipped with folding arms (02). The folding arms are attached by pivots to the symmetrical horizontal arms (05), which are immobilised by a brake (07). The lifting section consists of a external vertical post (10), which slides on the inner central mast. At the base of the lifting post are fixed two symmetrical horizontal arms (11). The horizontal mast is equipped with rollers (15), on which the wheel can be turned to align the holes in the wheel with the wheel studs.

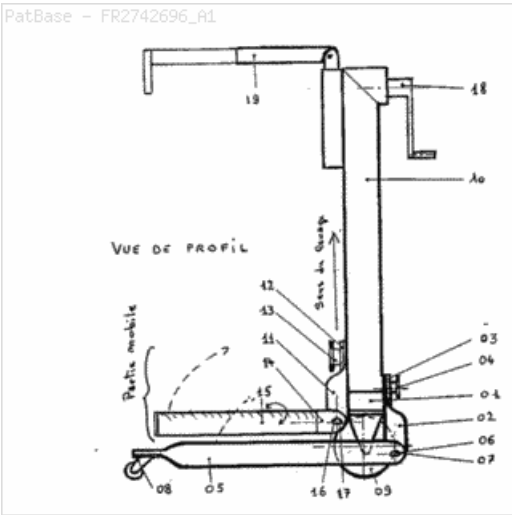
Classifications:

International (IPC 8-9): B60B29/00 (Advanced/Invention); B60B29/00 (Core/Invention)

International (IPC 1-7): B60B29/00

CPC: B60B29/002

European: B60B29/00B



Family:

Publication number	Publication date	Application number	Application date
FR2742696 A1	19970627	FR19950015598	19951220

Priority:

FR19950015598 19951220

Probable Assignee: PAQUIER BERNARD CHARLES HENRI

Assignee(s): (std): PAQUIER BERNARD CHARLES HENRI

25) Family number: 5064367 (US5125298A)

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Title: AUTOMATIC WHEEL ASSEMBLY MOUNTING SYSTEM

Abstract: An automatic wheel assembly mounting system, for use on a vehicular assembly line, in which an array of fastener members is prepared, corresponding in number and geometric pattern to the array of coating fastener members on the vehicle hub and to the array of bolt holes on the wheel assembly; a wheel assembly is rotated at an orientation station to bring the bolt holes into angular registry with the arrayed fastener members; the wheel assembly and arrayed fastener members are brought together and moved in registry to a staging position adjacent to but spaced laterally from a vehicle hub positioned at the wheel assembly mounting station on the assembly line and the arrayed fastener members, wheel assembly, and hub are relatively rotated to move the arrayed fastener members, the bolt holes in the wheel assembly, and the coating fastener members on the hub into angular registry with each other at the staging position; the wheel assembly and arrayed fastener members are thereafter moved laterally onto the hub and the arrayed fastener members are secured to the coating fastener members on the hub to secure the wheel assembly to the hub.

Classifications:

International (IPC 8-9): B23P19/00 B23P19/06

B62D65/12 (Advanced/Invention);

B23P19/00 B23P19/06 B62D65/00 (Core/Invention)

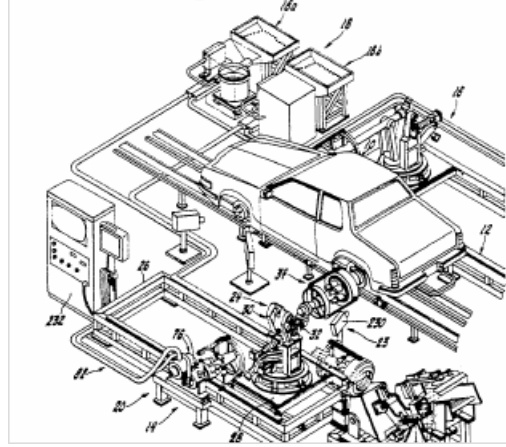
International (IPC 1-7): B25B17/00 B25B23/02 B25B23/04 B25B23/06

CPC: B23P19/10 B23P19/006 B23P19/069 B62D65/12 Y10T29/5343

European: B23P19/00B4 B23P19/06E B23P19/10 B62D65/00D5

B62D65/12

US: 29/728 29/798 81/57.22 81/57.35 81/57.36 81/57.37

**Family:**

Publication number	Publication date	Application number	Application date
US5125298 A	19920630	US19830550816	19831114

Priority:

US19830550816 19831114

Probable Assignee: SMITH CHALMERS O**Assignee(s):** (std): SMITH CHALMERS O

Assignee(s): STELLAR ENGINEERING INC ; STELLAR ENGINEERING INC A CORP OF MICHIGAN ; QUATRO SYSTEMS INC ; QUATRO SYSTEMS INC 38403 SANTA ANNA MT CLEMENS MI ; QUATRO SYSTEMS INC 38403 SANTA ANNA MT CLEMENS MI 48063 A CORP OF

Inventor(s): (std): SMITH CHALMERS O**26) Family number: 11992413 (US5426841A)**

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Title: METHOD AND TOOL FOR REMOVING AND REPLACING A VEHICLE WHEEL

Abstract: A tool for removing and replacing wheels of heavy vehicles such as buses and trucks. The tool has a track with a first end member to be clamped to the vehicle axle. Chains on the intermediate part of the tool support the tool on the wheel of the vehicle. The chains can be released when the first end is clamped and the second end supported. Adjustable legs are supported on the second end of the track for supporting the second end of the track. A carriage with a wheel support on it is movable on the track. The wheel support is clamped firmly to the wheel support on the carriage. The axle nut may then be removed and the carriage can be moved toward the second end member and locked in position on the track with the wheel on it. The wheel can then be swung to an inclined position for servicing. When serviced, the carriage with the wheel can be moved toward the first end member of the track bringing the wheel back onto the axle.

Classifications:

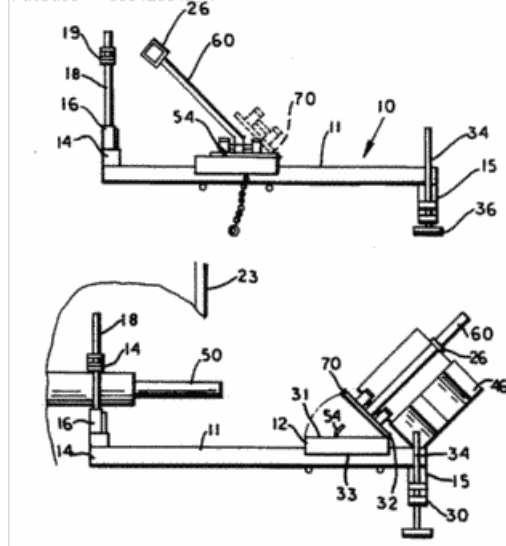
International (IPC 8-9): B60B29/00 (Advanced/Invention); B60B29/00 (Core/Invention)

International (IPC 1-7): B23P19/04 B25B27/14 B60B29/00

CPC: B60B29/002 Y10T29/4973 Y10T29/49819 Y10T29/53448 Y10T29/53922

European: B60B29/00B

US: 254/134 29/273 29/402.08 29/426.3 29/802 414/428

**Family:**

Publication number	Publication date	Application number	Application date
US5426841 A	19950627	US19940178796	19940107

Priority:

US19940178796 19940107

Probable Assignee: PETERSON RICHARD O

Assignee(s): (std): PETERSON RICHARD O
Inventor(s): (std): PETERSON RICHARD O

27) Family number: 12467417 (US6106214A)

© PatBase

Title: Dolly assembly

Abstract: A dolly assembly for lifting and supporting a single vehicle tire includes a wheel mounted support frame having a first support bar connected to a second support bar, a slidable member engaged with the second support bar, and a pair of tire lift paddles connected to the slidable member. The slidable member is movable along the second support bar by a lift spindle or a hydraulic lift, which serves to move the pair of tire lift paddles into contact with the vehicle tire, thereby lifting it. An upper housing is attached to the top of the second support bar. The upper housing carries an upper support pad which contacts an upper outside surface of the vehicle tire. An optional securing strap is also provided to further secure the vehicle tire on the dolly assembly.

Classifications:

International (IPC 8-9): B60B29/00 (Advanced/Invention);
B60B29/00 (Core/Invention)

International (IPC 1-7): B60B29/00

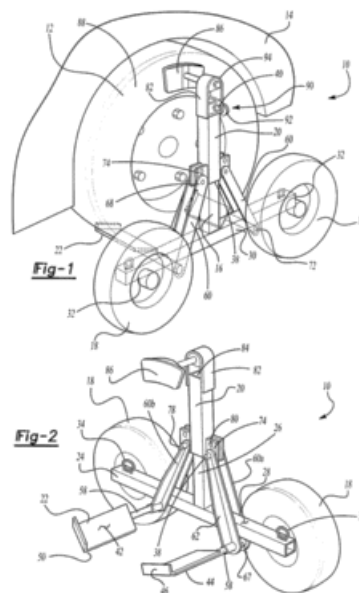
CPC: B60B29/002

European: B60B29/00B

US: 414/427 414/429

PatBase - US6106214_R

U.S. Patent Aug. 22, 2000 Sheet 1 of 4 6,106,214



Family:

Publication number	Publication date	Application number	Application date
US6106214 A	20000822	US19980028335	19980224

Priority:

US19980028335 19980224

Probable Assignee: CRAZE PAUL

Assignee(s): (std): CRAZE PAUL ; SAFFELLE PAUL ; SEYRLHNER GEORG

Inventor(s): (std): CRAZE PAUL ; SAFFELLE PAUL ; SEYRLHNER GEORG

28) Family number: 9028434 (US4637623A)

© PatBase

Title: Towing apparatus

Abstract: A towing apparatus of the wheel lift variety is provided with wheel support members that move horizontally or vertically relative to a fixed-position support beam. The support members are mounted to the beam by pivotable, tapered collars and include a depending retainer that has both an extended height and depth to contact a substantial portion of the wheel circumference. The apparatus also provides means for rotating the support beam both above the below the horizontal. All of these features facilitate use of the towing apparatus.

Classifications:

International (IPC 8-9): B60P3/10 B60P3/12 (Advanced/Invention);
B60P3/06 (Core/Invention)

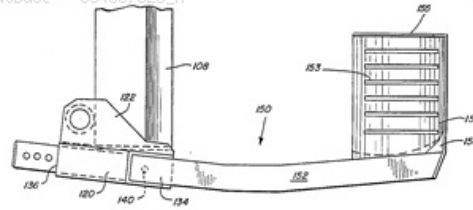
International (IPC 1-7): B60P3/10 B60P3/12

CPC: B60P3/125

European: B60P3/12B

US: 280/204 280/402 414/426 414/563

PatBase - US4637623_A



Family:

Publication number	Publication date	Application number	Application date
CA1277958 A1	19901218	CA19860502399	19860221
CA1277959 A1	19901218	CA19860525673	19861217
CA1277959 A2	19901218	CA19860525673	19861217
CA1322994 A1	19931012	CA19880564496	19880419
US4637623 A	19870120	US19850752980	19850708
US4637623 B1	19960312	US19850752980	19850708
US4793763 A	19881227	US19870063015	19870617
US4798509 A	19890117	US19860872137	19860606
US4798509 B1	19960402	US19860872137	19860606

Priority:

US19850752980 19850708 CA19860502399 19860221 CA19860525673 19860221
CA19865023998 19860221 US19860872137 19860606 US19870063015 19870617
CA19880564496 19880419

Probable Assignee: MILLER IND TOWING EQUIPMENT INC

Assignee(s): (std): VULCAN EQUIPMENT CO LTD ; VULCAN INT INC ; VULCAN EQUIPMENT COMPANY

Assignee(s): VULCAN INT (DELAWARE) INC ; VULCAN EQUIPMENT COMPANY LIMITED ; VULCAN INT ; VULCAN EQUIPMENT COMPANY LTD ; VULCAN INTERNATIONAL INC ; BANK OF AMERICA NA ; BANK OF AMERICA NA AGENT AS WAS KNOWN AS NATIONSBA ; BUBIK LESLIE ; CENTURY HOLDINGS INC ; VULCAN EQUIPMENT CO ; MILLER IND ; FIRST TENNESSEE BANK NATIONAL ASSOCIATION ; CIT GROUP BUSINESS CREDIT INC ; CIT GROUP BUSINESS CREDIT ; MILLER IND INC ; MILLER IND TOWING EQUIPMENT INC ; VULCAN EQUIPMENT CO 350 PROGRESS AVE SCARBOROUGH O

Inventor(s): (std): BUBIK LESLIE

Agent(s): SIM AND MCBURNEY; FINLAYSON AND SINGLEHURST

29) Family number: 22639441 (US6382644B)

© PatBase

Title: Apparatus for transporting and positioning tire and wheel assemblies

Abstract: An apparatus particularly designed to receive, support, transport and/or position tire and wheel assemblies of vehicles, particularly large vehicles, is described. One embodiment of the apparatus comprised a lower frame, an upright support coupled to the lower frame, a vertical positioning device, and a tire and wheel assembly support operably coupled to the vertical positioning device. Working embodiments included a lower U-shaped frame, generally having plural casters attached thereto, for easy positioning about tires attached to vehicles. A method for receiving, supporting, transporting and positioning tire and wheel assemblies also is described. The method comprises first providing a suitable apparatus. The apparatus is positioned adjacent a tire and wheel assembly of a vehicle. The vertical position of the tire and wheel support assembly is adjusted to engage the tire and wheel assembly. The tire and wheel assembly is then placed on the apparatus, which supports the tire and wheel assembly. This allows an operator to transport the assembly to another location, work on the assembly while it is supported by the apparatus, and/or rotate the assembly while supported by the device for inspection and repair.

Classifications:

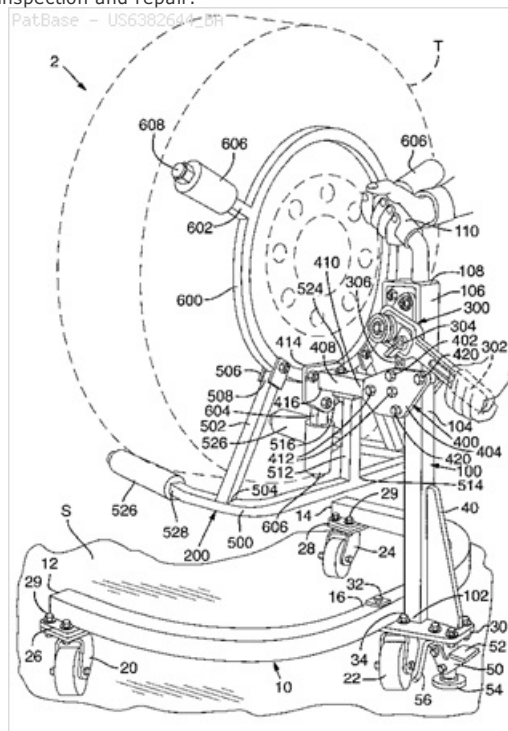
International (IPC 8-9): B60B29/00 (Advanced/Invention); B60B29/00 (Core/Invention)

International (IPC 1-7): B60B29/00 B62B3/10

CPC: B60B29/002

European: B60B29/00B

US: 280/47.35 280/763.1 280/79.4 280/794 414/427 414/428



Family:

Publication number	Publication date	Application number	Application date
CA2325175 AA	20010505	CA20002325175	20001103
CA2325175 C	20090113	CA20002325175	20001103
US6382644 BA	20020507	US19990435090	19991105

Priority:

US19990435090 19991105 CA20002325175 20001103

Probable Assignee: TIRE SERVICE EQUIPMENT MFG CO INC**Assignee(s):** (std): SAFE SHOP TOOLS INC ; SAFE TOOLS SHOP INC**Assignee(s):** TIRE SERVICE EQUIPMENT MFG CO INC ; RAWLINGS CLIFFORD CRAIG**Inventor(s):** (std): RAWLINGS CLIFFORD CRAIG**Agent(s):** OYEN WIGGS GREEN AND MUTALA LLP**30) Family number: 42908442 (US2009035107A)**

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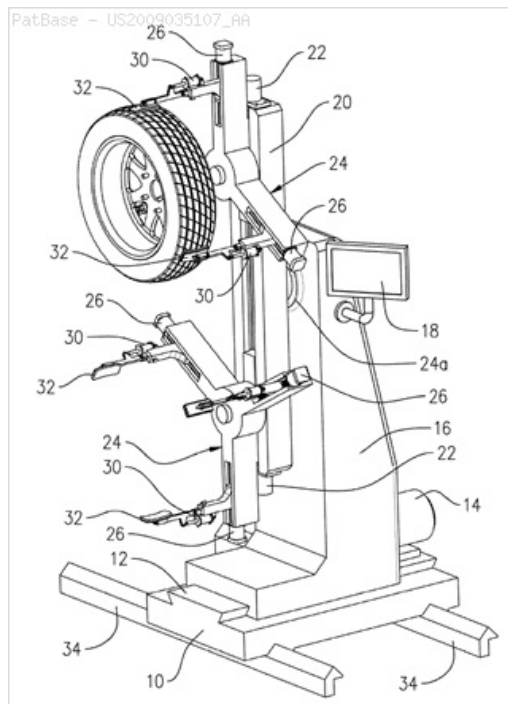
Title: TIRE ROTATING ROBOT

Abstract: A tire rotating robot used to rotate the tires of a vehicle. The robot can remove two tires sequentially without having a human to manually lift the tires. The robot for rotating tires comprises of a mobile base, a body connected to the base, a pivotally mounted two-position rotating beam connected to the body, two arm guide assemblies displaced within a channel of the beam, a motor that powers the robot, and an interface that controls the robot.

Classifications:**International (IPC 8-9):** B25J15/02 B25J9/16

B60B29/00 (Advanced/Invention);

B25J15/02 B25J9/16 B60B29/00 (Core/Invention)

CPC: B25J5/02 B25J15/0052 B25J15/103 B60B29/002**European:** B25J15/00M B25J15/10C B25J5/02 B60B29/00B**US:** 414/426 901/24 901/3 901/41 901/47**Family:**

Publication number	Publication date	Application number	Application date
US2009035107 AA	20090205	US20070833111	20070802

Priority:

US20070833111 20070802

Probable Assignee: DURAN MARLENE**Assignee(s):** (std): DURAN MARLENE ; LOPEZ MICHAEL**Inventor(s):** (std): LOPEZ MICHAEL ; DURAN MARLENE**Agent(s):** RUBEN ALCOPA ESQ**31) Family number: 28182467 (US2002003196A)**

© PatBase

Title: APPARATUS FOR SUPPORTING AUTOMOTIVE TIRES

Abstract: An apparatus for supporting automotive tires is provided having a hanger pin adapted to fit through the mount hole of a vehicle wheel. The apparatus is intended to be installed on an automotive hoist at a height approximately the same as that of a tire of a vehicle disposed on the hoist. A worker removing a wheel from the vehicle disposed on the hoist can thus hang the wheel on the apparatus without significantly bending at the waist.

Classifications:**International (IPC 8-9):** A47F5/00 B60B29/00 B60B30/02 B60B30/08

B62D43/00 B65G7/00 B66D1/00 B66F7/02 B66F7/28 (Advanced/Invention)

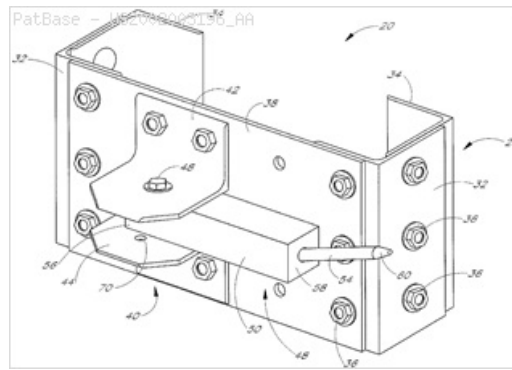
International (IPC 1-7): A47F5/00 B23P19/00 B60B29/00 B60B30/02

B60B30/08 B62D43/00 B65G7/00 B66F7/00 B66F7/14 B66F7/28

E04G25/00 F16M13/00

CPC: B60B29/00 B66F7/02 B66F7/28**European:** B60B29/00 B66F7/02 B66F7/28**US:** 187/203 187/203S 187/216 248/288.11 248/288.110P 248/352

248/352S 254/323 254/89R 269/52 414/426



Family:

Publication number	Publication date	Application number	Application date
AT296745 E	20050615	AT20000921400T	20000317
AU200041728 A1	20001004	AU20000041728	20000317
AU200041728 A5	20001004	AU20000041728D	20000317
CA2402711 AA	20020913	CA20002402711	20000317
CA2402711 C	20080909	CA20002402711	20000317
DE20022844 U1	20020718	DE20002022844U	20000317
DE60020561 D1	20050707	DE20006020561	20000317
DE60020561 D1	20050707	DE20006020561T	20000317
DE60020561 T2	20060427	DE20006020561T	20000317
EP1189798 A1	20020327	EP20000921400	20000317
EP1189798 A4	20030723	EP20000921400	20000317
EP1189798 B1	20050601	EP20000921400	20000317
US2002003196 AA	20020110	US19990271115	19990317
US2002047077 AA	20020425	US20010012780	20011106
US2003080270 AA	20030501	US20020313055	20021206
US2004060775 AA	20040401	US20030671223	20030924
US6604610 BB	20030812	US20010012780	20011106
US6681897 BB	20040127	US20020313055	20021206
US7073778 BB	20060711	US20030671223	20030924
WO0055031 A1	20000921	WO2000US07163	20000317

Priority:

US19990271115 19990317 WO2000US07163 20000317 US20010012780 20011106
US20020313055 20021206 US20030671223 20030924

Probable Assignee: TIRE HANGER CORP

Assignee(s): (std): GIBSON ANTHONY C ; GLEN L NUTTALL ; RODEN MARTIN ; STARLING ROY ; TIRE HANGER CORP

Assignee(s): TIRE HANGER CORP RANCHO CUCAMONGA ; KNOBBE MARTENS OLSON AND BEAR LLP

Inventor(s): (std): GIBSON ANTHONY C ; STARLING ROY ; RODEN MARTIN ; GIBSON C

Inventor(s): ROY STARLING ; ANTHONY C GIBSON ; MARTIN RODEN

Agent(s): BERESKIN AND PARR LLP; RUTAN AND TUCKER LLP

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

32) Family number: 42068520 (US2008181755A)

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Title: VEHICLE TRANSPORT APPARATUS

Abstract: A portable dolly for use in transporting a vehicle. The dolly includes a base structure that has at least one wheel for rolling the dolly. The dolly also includes at least one lifting arm that is designed to cup the wheel or tire of the vehicle. A lifting mechanism is provided on the dolly for lifting the lifting arm to raise the vehicle's wheel or tire off of the ground surface such that the wheel or tire rests on the lifting arm. The vehicle can then be rolled with the wheel or tire resting on the rolling dolly.

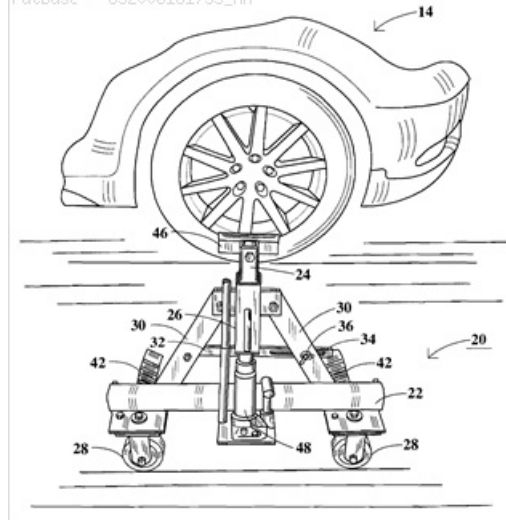
Classifications:

International (IPC 8-9): B60B30/10 (Advanced/Invention);
B60B30/00 (Core/Invention)

CPC: B60B29/002

European: B60B29/00B

US: 414/427

**Family:**

Publication number	Publication date	Application number	Application date
US2008181755 AA	20080731	US20070627717	20070126

Priority:

US20070627717 20070126

Probable Assignee:

HARRIS DENNIS E

Assignee(s): (std):

HARRIS DENNIS E

Inventor(s): (std):

HARRIS DENNIS E

Agent(s):

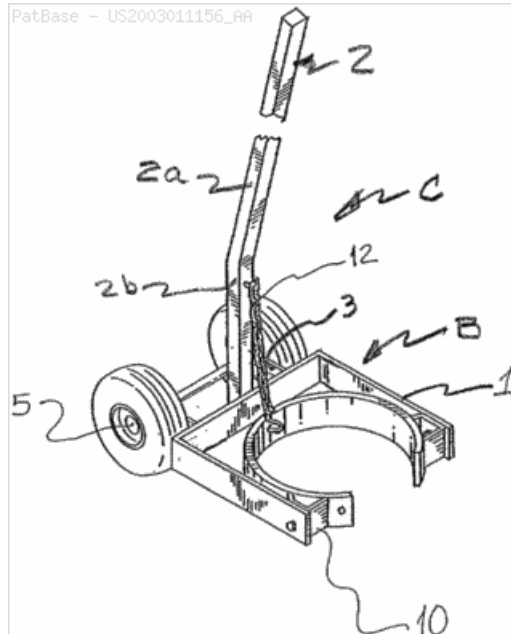
SMITH MOORE LLP

33) Family number: 27988539 (US2003011156A)

© PatBase

Title: Hand truck for moving, manipulating, and aligning objects

Abstract: Cart includes a body, a wheel attached to the body, and a support ring movably attached to the body. The support ring may be sufficiently flexible so that the support ring can accommodate different objects. The support ring may be rotatably attached to the body. A handle may be provided on the body. An extension may be provided between the handle and the body. Two spaced apart wheels may be provided. The support ring may include a mouth for enhancing the flexibility of the support ring. A lock may be provided for selectively restricting movement of the movable attached support ring. The lock may include a chain having a hook which may be disposed on the handle for securing the chain. The hook may be a s-hook. One or more blocks may be provided on the support ring, the blocks being of different sizes for reducing the effective inner diameter of the support ring by different amounts.

Classifications:**International (IPC 8-9):** B62B1/14 (Advanced/Invention)**International (IPC 1-7):** B62B1/00 B62B1/26**CPC:** B62B1/14 B62B2202/031 B62B2203/02**European:** B62B1/14 L62B202/031 L62B203/02**US:** 280/47.131 280/47.131P 280/47.27**Family:**

Publication number	Publication date	Application number	Application date
US2003011156 AA	20030116	US20020034124	20020103

Priority:

US19990117428P 19990127 US20000498760 20000127 US20020034124 20020103

Probable Assignee: BROOKS MARTY

Assignee(s): BROOKS MARTY ; KRUMM SR WALTER E ; KRUMM WALTER E

Inventor(s): (std): BROOKS MARTY ; KRUMM SR WALTER E ; KRUMM WALTER E

Agent(s): SHLESINGER ARKWRIGHT AND GARVEY LLP

34) Family number: 28850548 (US5886258A)

PatBase

Title: Apparatus for mounting and removing wheels of motor vehicles in general on and from machines having a horizontal shaft, such as wheel balancing machines

Abstract: An apparatus for fitting, with perfect axial alignment, motor vehicle wheels of any size on the horizontal shaft of a machine, typically a wheel balancing machine, comprises two mutually facing and superimposed jaws which are moved so as to perform a mutual approach and spacing motion, by means of which they engage the tire of the wheel to be checked and/or that has already been checked and respectively disengage from the tire; a vertical motion, by means of which the jaws move between a lowered position, in which they can receive the wheel to be checked and remove the checked wheel, and a raised position, in which the jaws are arranged in a mirror-symmetrical manner with respect to the balancing shaft; and a horizontal back-and-forth motion, parallel to the balancing shaft, between a retracted position, in which the jaws support the wheel so that it is axially aligned with the shaft and arranged in front of its free end, and an extracted position, in which the jaws support the wheel so that it is axially aligned with the shaft and inserted thereon.

Classifications:

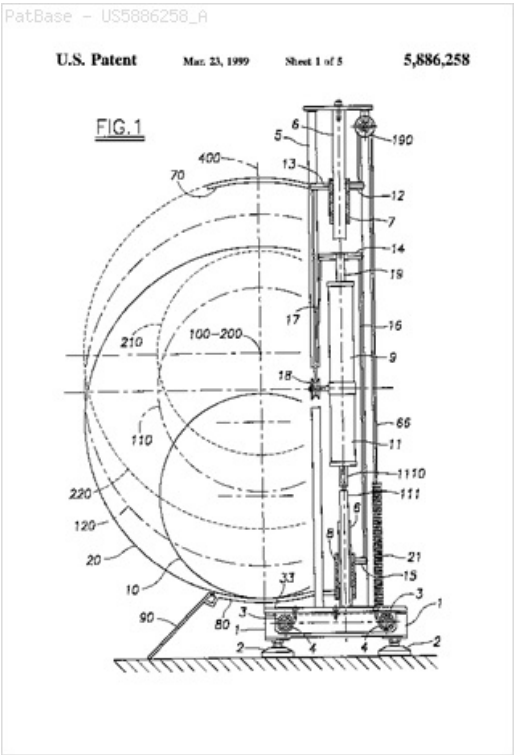
International (IPC 8-9): G01M1/04 (Advanced/Invention); G01M1/00 (Core/Invention)

International (IPC 1-7): G01M1/02 G01M1/04

CPC: G01M1/045

European: G01M1/04B

US: 73/462 73/487



Family:

Publication number	Publication date	Application number	Application date
DE69716858 D1	20021212	DE19976016858	19971215
DE69716858 T2	20040311	DE19976016858T	19971215
EP0848238 A2	19980617	EP19970122062	19971215
EP0848238 A3	19990303	EP19970122062	19971215
EP0848238 B1	20021106	EP19970122062	19971215
IT1287832 B1	19980819	IT1996RE00102	19961216
ITRE960102 A0	19961216	IT1996RE00102	19961216
ITRE960102 A1	19980616	IT1996RE00102	19961216
US5886258 A	19990323	US19970990562	19971215

Priority:

IT1996RE00102 19961216

Probable Assignee: FEMAS SRL

Assignee(s): (std): FEMAS SRL

Assignee(s): FEMAS S R L ; FEMAS S R L CORREGGIO

Inventor(s): (std): FERRARI GINO ; MAIOLI FRANCO

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

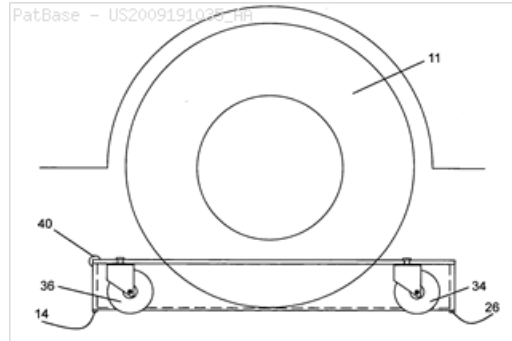
Title: VEHICLE WHEEL DOLLY

Abstract: A vehicle wheel dolly is provided that includes a generally flat first plate, a first side wall, said first side wall extending generally upward from said first plate at a first side edge, a second side wall, said second side wall extending generally upward from said first plate at a second side edge, a rear wall, said rear wall extending generally upward from said first plate at a rear edge and intersecting said first side wall and said second side wall, a second plate, said second plate extending generally horizontally outward from said first side wall at a top edge, a third plate, said third plate extending generally horizontally outward from said second side wall at a top edge, at least one caster and wherein said first plate, said side first wall, said second side wall, and said rear wall create a well for accepting a tire and wheel assembly of a vehicle.

Classifications:**International (IPC 8-9):** B60B29/00 B60B30/02

B62B5/00 (Advanced/Invention);

B60B30/00 (Core/Invention)

CPC: B62B5/0083 B62B2202/90**European:** B62B5/00S L62B202/90**US:** 280/79.4 414/426 414/427 414/809**Family:**

Publication number	Publication date	Application number	Application date
US2009191035 AA	20090730	US20090321301	20090116
US8882434 BB	20141111	US20090321301	20090116

Priority:

US20080022321P 20080119

US20090321301 20090116

Probable Assignee:

LABRUYERE KENNETH

Assignee(s): (std):

LABRUYERE KENNETH

Inventor(s): (std):

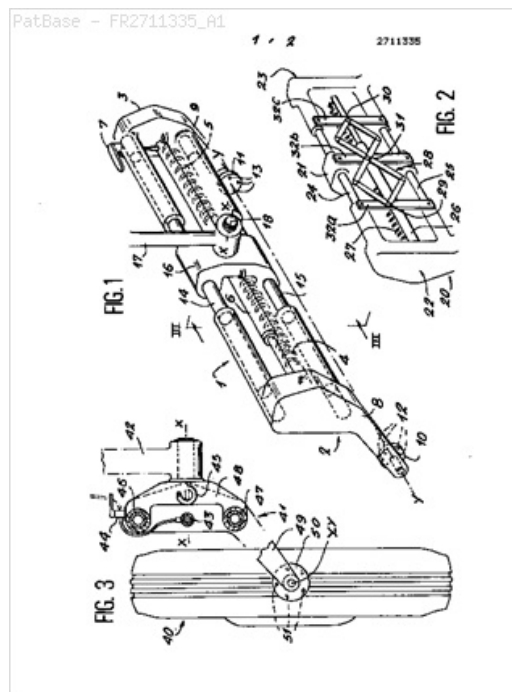
LABRUYERE KENNETH

Agent(s):

MASTROGIACOMO PLLC

Title: Dispositif de manutention de roue de vehicule.

Abstract: A device for handling a wheel (60) of a vehicle includes two members which can move with respect to each other under the action of the return spring and of an actuator cylinder working in opposition to the return spring. The two members seize the wheel (60) substantially upon its tread strip and the device has a freedom of rotation about a horizontal axis (Y-Y) and about a second, horizontal axis (X-X) substantially orthogonal to the first one (Y-Y). Application to the handling of a vehicle wheel for automobile monitoring and automobile repair.

Classifications:**International (IPC 8-9):** B60B29/00 B60B30/02 (Advanced/Invention); B60B29/00 B60B30/00 (Core/Invention)**International (IPC 1-7):** B60B29/00 B60B30/02 B60C25/00 B60S B65G7/00 B65G9/00 B66D1/42**CPC:** B60B29/001**European:** B60B29/00A

Family:

Publication number	Publication date	Application number	Application date
DE9416754 U1	19950126	DE19940016754U	19941018
FR2711335 A1	19950428	FR19930012525	19931020
FR2711335 B1	19951229	FR19930012525	19931020
IT234168 Y1	20000223	IT1994MI00692U	19941018
ITMI940692 U0	19941018	IT1994MI00692U	19941018
ITMI940692 U1	19950420	IT1994MI00692U	19941018

Priority:

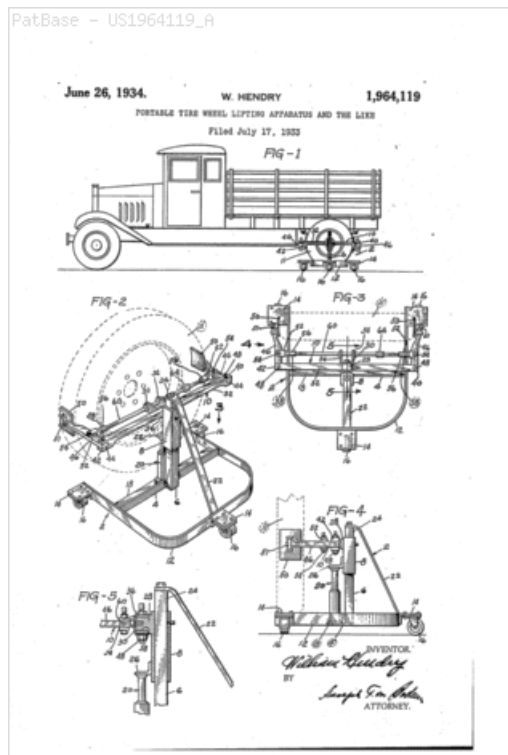
FR19930012525 19931020

Probable Assignee: MULLER BEM**Assignee(s):** (std): MULLER BEM ; MULLER BEM S A**Assignee(s):** MULLER BEM S A CHARTRES FR ; MULLER BEM SA**Inventor(s):** (std): BERNE FREDERIC ; SAUZAY OLIVIER ; OLIVIER SAUZAY ; FREDERIC BERNE**37) Family number: 19659672 (US1964119A)**

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Title: PORTABLE TIRE WHEEL LIFTING APPARATUS AND THE LIKE

Abstract: 1. In the apparatus of the class described. adapted for removing the tire wheel off' the wheel axle, comprising a frame. means connected to said frame to hold it in rigid position, means connected to said frame adapted to hold rotatably said tire wheel and a set of swivelled rollers connected to said frame adapting said frame together with said tire wheel held thereto to be removed from the wheel axle.

Classifications:**International (IPC 8-9):** B66F5/00 (Advanced/Invention);
B66F5/00 (Core/Invention)**International (IPC 1-7):** B66F5/02**CPC:** Y10S212/901 B66F5/00 Y10T29/53922**European:** B66F5/00**US:** 211/23 212/343 212/901 254/2R 254/93H 280/79.4 29/273 33/3R
414/427 414/621**Family:**

Publication number	Publication date	Application number	Application date
US1964119 A	19340626	US19330680819	19330717

Priority:

US19330680819 19330717

Probable Assignee:

WILLIAM HENDRY

Assignee(s): (std):

WILLIAM HENDRY

Inventor(s): (std):

WILLIAM HENDRY

Inventor(s):

HENDRY WILLIAM

38) Family number: 903687 (US3501037A)

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Title: TRACTOR TIRE TRANSPORT HOLDER

Abstract: (Claim 1) 1. Support means for retaining and moving rimmed :hicle tires comprising: (a) a support frame having a

generally vertical support post secured thereto and a carrier frame adapted for up and down movement relative to said support post; (b) jaw means for engaging the inner diameter of a vehicle tire and retaining said tire in firmly engaged relationship therewith, said jaw means including a pair of pivotally mounted mutually opposed arms, each arm having a tire engaging end, an actuating end, and a mounting point therebetween for pivotally mounting the arm to one end of a link arm pivot- ally secured to said carrier frame, said tire engaging end having a pair of tire engaging lugs mounted thereon, and said actuating end having a cam follower mounted thereon, the jaw means being adapted to clampingly engage the inner diameter of a large vehicle tire; (c) actuating means including cam means in contact with said cam follower and arranged to pivotally force said arms about said mounting point to cause convergence of said tire engaging ends; (d) abutment plate means adjacent said carrier frame and arranged in opposed disposition to the tire engaging end of said arms for contacting the outer circumference of a vehicle tire retained by said jaw means, and (e) means for controllably raising said carrier frame relative to said support posts.

Classifications:

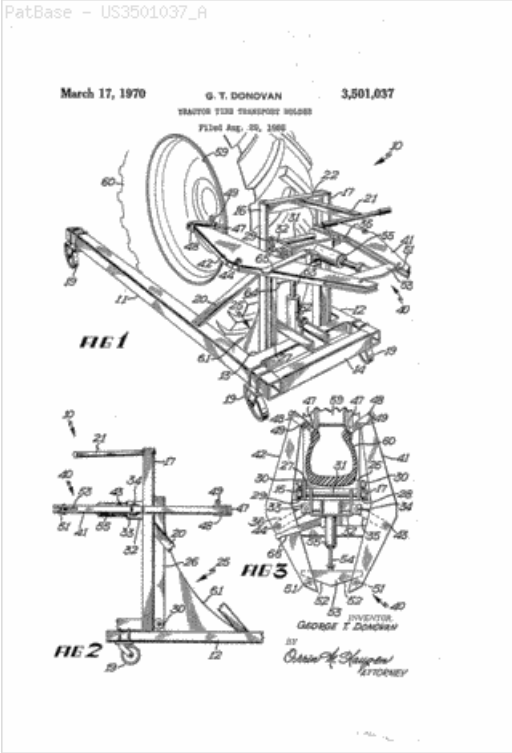
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B60B29/00 (Core/Invention)

International (IPC 1-7): B60B29/00

CPC: B60B29/002

European: B60B29/00B

US: 294/115 414/427 414/429



Family:

Publication number	Publication date	Application number	Application date
US3501037 A	19700317	US19680756096	19680829

Priority:

US19680756096 19680829

Probable Assignee: LE CENTER IMPLEMENT CO

Assignee(s): (std): LE CENTER IMPLEMENT CO

Inventor(s): (std): DONOVAN GEORGE T

Inventor(s): GEORGE T DONOVAN

39) Family number: 12926688 (EP0995616A1)

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Title: Hand truck to replace the wheels of the heavy vehicles

Abstract: The hand truck with actuator for mounting a wheel consists of a square fixed part (1) and of a mobile part (8) having on a ledge an actuator. The frame fixed part (1) provides a pair of small wheels (3), a below plate (4) in front getting out, acting in combination with the wheels the standing of the apparatus in upright position, and upper a pair of handgrips (5). Said fixed part (1) brings on two pairs of joints (7) a square mobile part (8) with on the lower ends (9) a pair of parallel rollers (11) in front getting out acting as load device of the wheel. The mobile part (8), to be brought in raising by a back pedal (12), centrally supports connected on an intermediate ledge (18) a longitudinal actuator to be moved by a crank (19) having a fixed part (20) and a stem (21) centrally having an end shoop-shaped tool (22) with a cilindrical push border (23). For the mounting with the wheel (24) in upright position of the loading plane and with catching on the grips (5), the hand truck is brought in transport condition. The wheel is then lined up with the axle (25) of the vehicle by the pedal drive (12) and, making rotate the same wheel on the rollers (11), the constraint holes (26) of the rim (27) are compared with the dowel screws (28) of the same axle. Then with the crank drive (19) the same wheel is brought in putting forward by the push of the push border (23) on the border of its central hole (29) till to determine the disposition of its rim (27) on the beating crown (30) of the axle in this way determining the complete introduction of the dowel screws (28) of the axle into the constraint holes (26) of the wheel. The mounting is then completed with the blocking by nuts threaded on the screws (28).

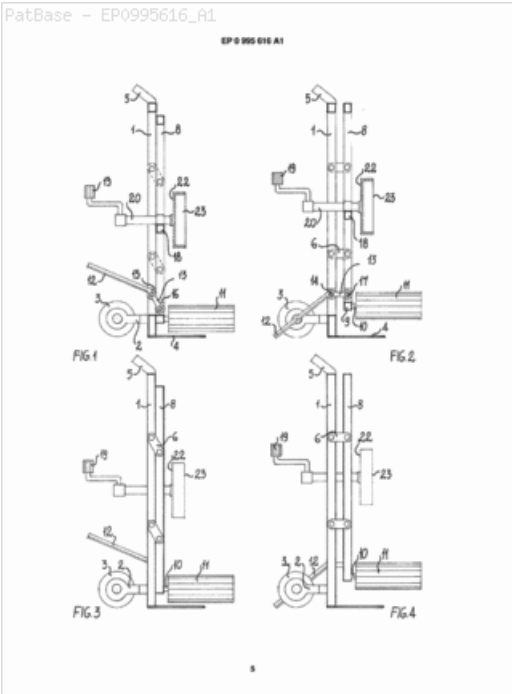
Classifications:

International (IPC 8-9): B60B29/00 (Advanced/Invention)

International (IPC 1-7): B60B29/00

CPC: B60B29/002

European: B60B29/00B



Family:

Publication number	Publication date	Application number	Application date
EP0995616 A1	20000426	EP19980830634	19981022

Priority:

EP19980830634 19981022

Probable Assignee: BOSCO RICCARDO

Assignee(s): (std): BOSCO RICCARDO

Inventor(s): (std): BOSCO RICCARDO

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

40) Family number: 49955716 (US8061952B)

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Title: WHEEL AND TIRE DOLLY APPARATUS

Abstract: The wheel and tire dolly apparatus provides a compact, mobile support for holding a wheel and tire at an adjustably chosen height within the cradle with backplate. The cradle can be pivoted with relation to the triangular base with omnidirectional casters. Two pivot arm casters optionally pivot outward to provide a wider base support. A spring loaded stop holds the wheel and tire within the cradle. The foot pedal controls raising and releasing of the upright within the vertical sleeve, the upright supporting the cradle.

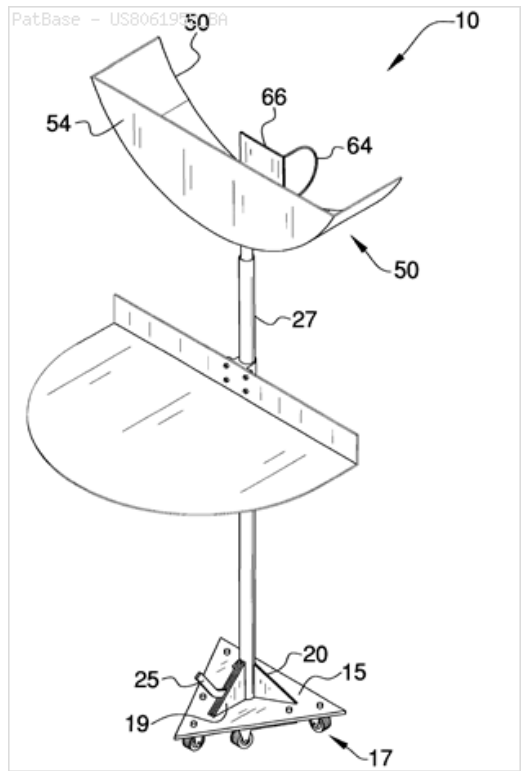
Classifications:

International (IPC 8-9): B65G7/00 (Advanced/Invention)

CPC: B60B30/02

European: B60B30/02

US: 280/79.4 414/427



Family:

Publication number	Publication date	Application number	Application date
US8061952 BA	20111122	US20080142156	20080619

Priority:

US20080142156 20080619

Probable Assignee: SCHERDEN WILLIAM J

Assignee(s): (std): SCHERDEN WILLIAM J

Inventor(s): (std): SCHERDEN WILLIAM J

Agent(s): CROSSLEY PATENT LAW; MARK A

41) Family number: 5196721 (US5161931A)

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Title: Wheel handling apparatus

Abstract: Improved wheel and tire handling apparatus or structure including a base member adapted for movement on relatively level surfaces by the use of rollers and casters. A vertically moveable second section is adapted for movement up and down on uprights of the base member and a jack is mounted in between the base member and the second section to raise and lower the second section relative to the base member. The second section is further provided with an elongated axle extending across the second section on which are axially slideably mounted two tines. The tines can be restricted as to axial movement by the use of manually fixable slideable collars on the axle to prevent the tines from moving away from each other when a wheel and tire are received thereon. Rollers are provided for the tire receiving surfaces of the tines to facilitate rotational movement of the wheel and tire to align the wheel with lug bolts when remounting the wheel and tire.

Classifications:

International (IPC 8-9): B60B29/00 B66F5/04

B66F9/04 (Advanced/Invention);

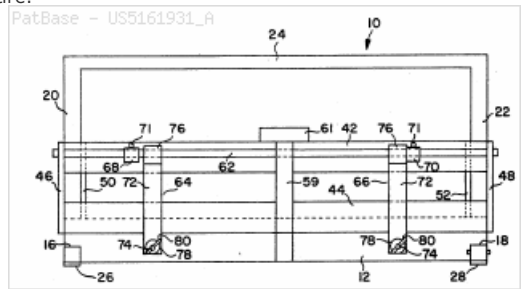
B60B29/00 B66F5/00 B66F9/00 (Core/Invention)

International (IPC 1-7): B60B29/00

CPC: B60B29/002 B66F5/04 B66F9/04

European: B60B29/00B B66F5/04 B66F9/04

US: 414/427 414/429 414/667 414/785



Family:

Publication number	Publication date	Application number	Application date
US5161931 A	19921110	US19910693967	19910429

Priority:

US19910693967 19910429

Probable Assignee: MAYER ORIN R

Assignee(s): (std): MAYER ORIN R

42) Family number: 34552783 (US2007134080A)

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Title: TIRE HANDLING APPARATUS

Abstract: A tire handling apparatus comprises a structural body composed of a hydraulically actuated scissor lift assembly for adjusting the height of a tire receiving platform; a movable plank that can be stowed away when not in use but is protruding off the side of the body so that it can receive a tire removed from a vehicle. The plank slides longitudinally across the length of the receiving platform so as to be in line with an empty receiving niche. The structural body is on wheels so that the tire handling apparatus can be moved from location to location as required.

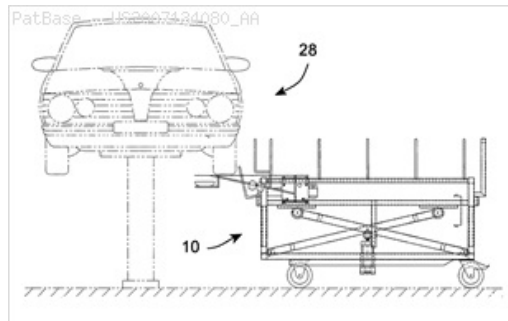
Classifications:

International (IPC 8-9): B60B29/00 B60B30/10 (Advanced/Invention);
B60B29/00 (Core/Invention)

CPC: B60B29/002

European: B60B29/00B

US: 187/211 280/79.4 414/426 414/426P 414/427

**Family:**

Publication number	Publication date	Application number	Application date
US2007134080 AA	20070614	US20050297538	20051208
US7942620 BB	20110517	US20050297538	20051208

Priority:

US20050297538 20051208

Probable Assignee:

SIMARD MARTIN

Assignee(s): (std):

SIMARD MARTIN ; SIMARD REAL

Inventor(s): (std):

SIMARD MARTIN ; SIMARD REAL

Agent(s):

INVENTARIUM

43) Family number: 22578835 (US2444992A)

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Title: PORTABLE DEVICE FOR AIRPLANE LANDING WHEELS

Abstract: 1. A portable wheelhandling device comprising, 'a'-wheelgripping assembly adapted to embrace substantially one-half of the wheel, _a_ U shaped frame having _upright tubular posts at the outéends thereof, means for mounting the as- ~ sembly upon pivots mcvably mounted upon the postsand means carried by _the frame and including flexible elements 'extending through the posts and-connected to the pivottmountings to ~ simultaneously move said pivot mountinesto ~- raise

Classifications:

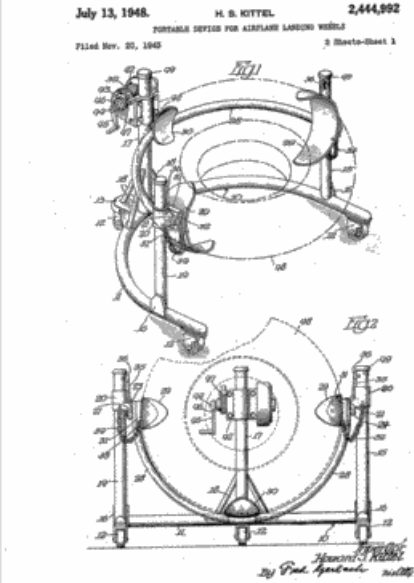
International (IPC 8-9): B60B29/00 B64F5/00 (Advanced/Invention);
B60B29/00 B64F5/00 (Core/Invention)

International (IPC 1-7): B64C25/36

CPC: B60B29/002 B64F5/50

European: B60B29/00B B64F5/00C

US: 157/1 248/129 248/137 254/325 254/376 414/427 414/428 73/49



Family:

Publication number	Publication date	Application number	Application date
US2444992 A	19480713	US19430511027	19431120

Priority:

US19430511027 19431120

Probable Assignee: CONS VULTEE AIRCRAFT CORP
Assignee(s): (std): CONS VULTEE AIRCRAFT CORP
Assignee(s): CONSOLIDATED VULTEE AIRCRAFT CORP
Inventor(s): (std): KITTEL HOWARD S

44) Family number: 30780845 (US2004156700A) © PatBase

Title: FOLDABLE TIRE DOLLY

Abstract: A foldable dolly for moving and positioning a vehicle tire assembly is formed with a rectangular base member mounted on a plurality of casters. Two wings are hinged to opposite ends of the rectangular member and have adjustable positioning members having one end attached to the base member and the other end attached to one of the wings. A plurality of bearings at least one bearing being mounted on each wing and one on the rectangular base member allow rotation of the tire assembly on the dolly and easy withdrawal of the dolly when the tire is mounted on a vehicle.

Classifications:

International (IPC 8-9): B60B33/00 B62B3/10
B62B5/00 (Advanced/Invention);
B60B33/00 B62B3/10 B62B5/00 (Core/Invention)
International (IPC 1-7): B60B30/10 B60S13/00
CPC: B60B33/0002 B60B33/0039 B60B33/0049 B62B3/104 B62B5/0083
B62B2202/031 B62B2203/60 B62B2205/006 B62B2206/04
European: B60B33/00B B60B33/00E2 B60B33/00F2 B62B3/10C
B62B5/00S L62B202/031 L62B203/60 L62B205/00D L62B206/04
US: 280/79.4 280/794 414/429 414/430 414/430P



Publication number	Publication date	Application number	Application date
US2004156700 AA	20040812	US20030361038	20030207
US6863488 BB	20050308	US20030361038	20030207

Agent(s): LUIS MIGUEL; DAVID L

US: 29/273 292/730

Publication number	Publication date	Application number	Application date
CA2236221 AA	19990912	CA19982236221	19980430
US6237206 BA	20010529	US19980041455	19980312

Priority:

US19980041455 19980312 CA19982236221 19980430

Probable Assignee: KIENE DIESEL ACCESSORIES INC**Assignee(s):** (std): BEZCO MANUFACTURING INC ; BEZCO MFG INC ; KIENE DIESEL ACCESSORIES INC**Assignee(s):** MOLSON GORDON GEORGE ; BEZCO TRUCKING INC ; BEZEMER CORNELIUS JOHN ; BEZCO MFG**Inventor(s):** (std): MOLSON GORDON GEORGE ; BEZEMER CORNELIUS JOHN**Agent(s):** BORDEN LADNER GERVAIS LLP**46) Family number: 11236896** (US5230598A)

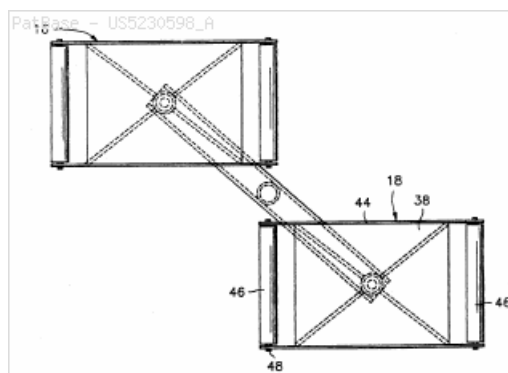
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Title: TIRE AND WHEEL HANDLING DEVICE

Abstract: A vehicle tire and wheel handling device in the form of a pair of tire and wheel receiving cradles or supports for receiving, supporting and handling vehicle tires and wheels when a vehicle is on a hoist in elevated position to facilitate the tires and wheels being "rotated", that is, being switched from one position on the vehicle to another position. Each cradle or support includes spaced parallel side support members interconnected by end rollers to cradle and receive a substantial portion of the periphery of a tire and wheel assembly in order to engage and support the wheel as it is removed from a wheel hub and maintain it supported in generally an upright position while the wheel is moved from a position adjacent one hub of the vehicle to a position adjacent another hub of the vehicle so that the tire and wheel assembly can be remounted on the vehicle on a different hub from which it was removed. The cradles or supports are rotatably mounted for swivelling about vertical axes on a support beam or arm that is centrally supported for swivelling or rotatable movement about a vertical axis to facilitate the tire and wheel assemblies being rotated or switched from one position to another on the vehicle and specifically to switch the tire and wheel assemblies between the front and rear hubs on the same side of the vehicle.

Classifications:**International (IPC 8-9):** B60B29/00 (Advanced/Invention);

B60B29/00 (Core/Invention)

International (IPC 1-7): B23P6/00 B25B27/14 B60B29/00**CPC:** Y10T29/49721 Y10T29/4973 Y10T29/53922 B60B29/002**European:** B60B29/00B**US:** 254/2R 29/273 29/402.03 29/402.08 294/20.8 414/427 414/590 414/665 414/672 414/744.3**Family:**

Publication number	Publication date	Application number	Application date
US5230598 A	19930727	US19920826606	19920128
US5257446 A	19931102	US19930003490	19930112

Priority:

US19920826606 19920128

Probable Assignee: STEVES BRETT V**Assignee(s):** (std): STEVES BRETT V ; STEVES JEFF M ; STEVES JR FRANK**Inventor(s):** (std): STEVES BRETT V ; STEVES JEFF M ; STEVES JR FRANK**47) Family number: 1429899** (US4042139A)

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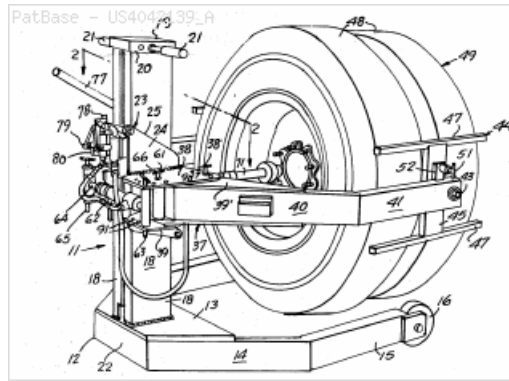
Title: VEHICLE WHEEL-REMOVING AND HANDLING DEVICE

Abstract: A wheel-removing and handling dolly device for dual or single-tired vehicle wheel assemblies consisting of a wheeled base having an upstanding post containing a hydraulic lifting ram cylinder whose piston rod is connected to a carriage assembly slidably engaged on the post. Respective gripping lever arms are provided on opposite sides of the carriage assembly, the lever arms having tire-gripping members horizontally pivoted to their outer end portions adapted to grippingly engaged diametrically opposite portions of a wheel assembly. The inner end of one of the lever arms is operatively connected to a hydraulic clamping cylinder assembly. A hydraulic wheel puller cylinder is carried horizontally by the carriage, extending between the gripping lever arms and having an extensible piston rod provided with a wheel hub-engaging head portion. A manually operated ram pump is carried on the carriage assembly and is connected through respective control valves to the lifting cylinder, the clamping cylinder and the wheel puller cylinder. After a wheel assembly is clamped and pulled from a vehicle, the wheel assembly can be rotated to a horizontal position, providing access to its brake drum or other parts for repair, cleaning or other servicing operations.

Classifications:**International (IPC 8-9):** B60B29/00 (Advanced/Invention);

B60B29/00 (Core/Invention)

International (IPC 1-7): B60B29/00**CPC:** B60B29/002 Y10T29/53922**European:** B60B29/00B**US:** 214/331 254/2R 29/273 414/427



Family:

Publication number	Publication date	Application number	Application date
US4042139 A	19770816	US19750575959	19750509

Priority:

US19750575959 19750509

Probable Assignee: STRECKERT SILVIA

Assignee(s): (std): PERNSTEINER HAROLD R ; STRECKERT ERNEST H

Assignee(s): STRECKERT SILVIA

Inventor(s): (std): PERNSTEINER HAROLD R ; STRECKERT ERNEST H

48) Family number: 12387932 (US6089815A)

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Title: BASKET ASSEMBLY FOR WHEEL RIM TRANSFER

Abstract: A basket assembly for holding a vehicle wheel rim. The basket assembly includes a basket adapted to hold the wheel rim, and a pair of pads connected to the basket. At least one of the pads is adjustable between a first position, in which the pads do not capture the wheel rim within the basket, and a second position, in which the pads are effective to capture the wheel rim within the basket. The basket assembly is useful in an apparatus for transferring wheel rims between metal forming stations during manufacture of the wheel rims.

Classifications:

International (IPC 8-9): B21D53/30 B21H9/00

B62D65/12 (Advanced/Invention);

B21H1/10 (Advanced/Non-invention);

B21D53/26 B21H9/00 B62D65/00 (Core/Invention);

B21H1/00 (Core/Non-invention)

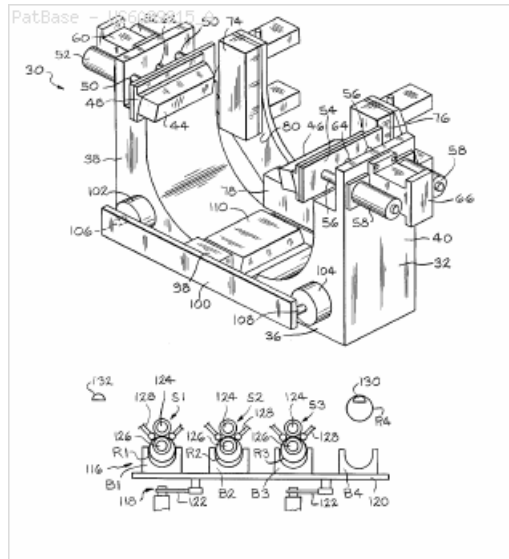
International (IPC 1-7): B21H1/10 B23Q3/00

CPC: B62D65/12 B21D53/30 B21H1/10 B21H9/00 Y10T29/49524

European: B21D53/30 B21H9/00 B62D65/00D5 B62D65/12 L21H1/10

US: 269/25 269/268 269/283 269/287 269/303 269/43 29/894.35

414/222.01 414/426



Family:

Publication number	Publication date	Application number	Application date
US6089815 A	20000718	US19980026998	19980223

Priority:

US19980026998 19980223

Probable Assignee: HAYES LEMMERZ INT INC

Assignee(s): (std): HAYES LEMMERZ INT INC

Assignee(s): HAYES LEMMERZ INT ; HAYES LEMMERZ INTERNATIONAL INC ; CANADIAN IMP ; CANADIAN IMP BANK OF COMMERCE ADMINISTRATIVE AGENT ; CANADIAN IMP BANK OF COMMERCE ADMINISTRATIVE AGENT AS ; CITICORP NORTH AMERICA INC ; CITICORP NORTH AMERICA INC AGENT AS

Inventor(s): (std): MUSTREAD LARRY A

Title: ARTICLE HANDLING APPARATUS

Abstract: An article handling apparatus for gripping and moving an article such as a large tire or other vehicular component of a mining, earthmoving or like vehicle. The article handling apparatus includes a base frame for movement of the apparatus over a substrate surface, and a handling frame for gripping the article, such as a tire. The apparatus has a pair of moveable arm members on the base frame, and a pair of moveable arm members on the handling frame. The apparatus can be compactly stored by contraction of the arms, can be manipulated through tight spaces, and is extremely stable while handling large and heavy articles.

Classifications:

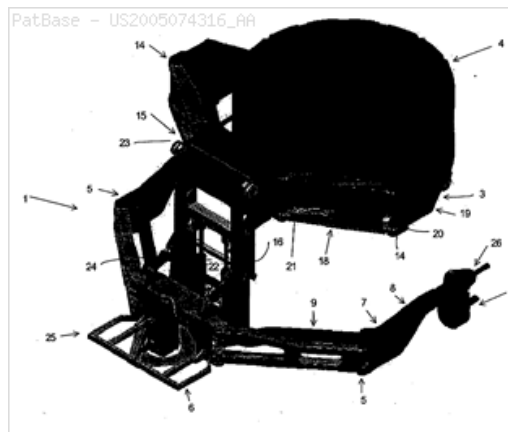
International (IPC 8-9): B25J13/00 B25J18/04 B25J5/00 B60B29/00 B60S5/00 B62B3/02 B62B3/04 B62B3/12 B65G7/00 B66F5/00 B66F7/26 B66F9/06 B66F9/065 B66F9/18 (Advanced/Invention); B25J13/00 B25J18/00 B25J5/00 B60B29/00 B65G7/00 B66F9/06 B66F9/18 (Core/Invention)

International (IPC 1-7): B25J13/00 B25J18/04 B25J5/00 B60B29/00 B60S5/00 B66F5/00 B66F7/26 B66F9/06

CPC: B60B29/002 B66F9/125 B66F9/183

European: B60B29/00B B66F9/12D B66F9/18D

US: 414/426 414/426P 414/429 414/621 414/621P 414/621S 414/783 414/783S

**Family:**

Publication number	Publication date	Application number	Application date
AU2004208687 AA	20050324	AU20040208687	20040903
AU2004208687 BB	20100325	AU20040208687	20040903
CA2480376 AA	20050304	CA20042480376	20040903
CA2480376 C	20130409	CA20042480376	20040903
US2005074316 AA	20050407	US20040937457	20040907
US2009155032 AA	20090618	US20090362076	20090129
US2012034059 AA	20120209	US20110273821	20111014
US8459926 BB	20130611	US20110273821	20111014

Priority:

AU20030904805 20030904	AU20040208687 20040903	CA20042480376 20040903
US20040937457 20040907	US20090362076 20090129	US20110273821 20111014

Probable Assignee: JUSTOY PTY LTD

Assignee(s): (std): HEDLEY ROBERT IAN ; JUSTOY PTY LTD ; WHITE DAVID PETER ; WHYBIN CHRISTOPHER NASH

Inventor(s): (std): WHITE DAVID PETER ; HEDLEY ROBERT IAN ; WHYBIN CHRISTOPHER NASH

Inventor(s): WHITE DAVID ; WHYBIN CHRISTOPHER ; HEDLEY ROBERT ; CHRISTOPHER NASH WHYBIN ; DAVID PETER WHITE ; ROBERT IAN HEDLEY

Agent(s): DAVIES COLLISON CAVE PTY LTD; HALFORDS IP; DAVIES COLLISON CAVE; OYEN WIGGS GREEN AND MUTALA LLP; CLIFFORD C DOUGHERTY III MCAFEE AND TAFT; MCAFEE AND TAFT TENTH FLOOR TWO LEADERSHIP SQUARE; MCAFEE AND TAFT

Title: AIRPLANE LIFT DOLLY

Abstract: 1. A lever arm having a v-shaped end; the sides of the V being braced across near their extremities, said lever arm having portions at right angles to the plane of the V at its extremities braced for rigidity to the corresponding sides of the V and having swivelled casters at their ends. a Drop parallel to said portions provided with a swivelled caster at its end and connected 2 a, s9s,, ooc `` to the lever arm near the apex oi the V, and a C formed cradle hinged at the said extremities and having a common pivot at the middle of the cradle for a pair of arms swingable at right angles to the plane of the C, a shoe being pivotally mounted at the end of each of these arms i.n hoe-like fashion and adapted to be moved under a wheel when the lever arm is raised, and then to lift said wheel when the lever arm is pulled down, said swingable arms being no longer than the radius of said wheel. 2. A dolly for lifting wheels comprising a, lever ll) split into two arms at one end to straddle a wheel. an upright portion rigidly connected to the end of each arm and having a. swlvelled caster at the bottom, a C member for straddling the wheel hinged at its ends to the ends of said arms, a pair of links having shoes hinged to their lower ends in hoe-like fashion to iit under the periphery of the wheel pivotally fastened to the middle portion of the G member to swing at right angles to the plane of the C

Classifications:

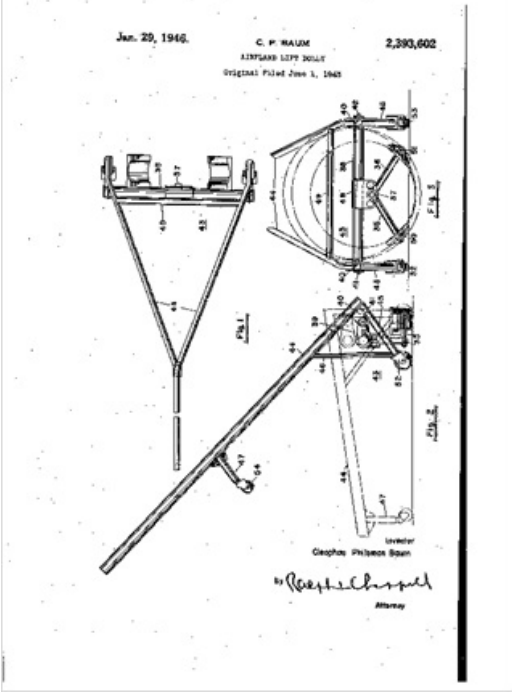
International (IPC 8-9): B60B29/00 B64F1/22 (Advanced/Invention); B60B29/00 B64F1/00 (Core/Invention)

International (IPC 1-7): B62B1/14 B64F1/22

CPC: B64F1/22 B60B29/002 Y10S180/904

European: B60B29/00B B64F1/22

US: 104/32.1 180/14.1 180/904 236/1A 254/4R 280/47.34 280/79.4 414/428



Family:

Publication number	Publication date	Application number	Application date
US2362981 A	19441121	US19430489267	19430601
US2392830 A	19460115	US19440547241	19440729
US2393602 A	19460129	US19440547240	19440729

Priority:

US19430489267 19430601 US19440547240 19440729 US19440547241 19440729

Probable Assignee: PHILEMON BAUM CLEOPHAS
Assignee(s): (std): PHILEMON BAUM CLEOPHAS
Inventor(s): (std): PHILEMON BAUM CLEOPHAS
Inventor(s): BAUM CLEOPHAS PHILEMON