

1) Family number: 57180462 (US2014224543A)

© PatBase

Title: SIDE SADDLE SUBSTRUCTURE

Abstract: The drilling rig includes a first substructure and a second substructure. The second substructure is positioned generally parallel to and spaced apart from the first substructure and generally the same height as the first substructure. The drilling rig further includes a drill floor coupled to the first and second substructures, where the drill floor positioned substantially at the top of the first and second substructures.

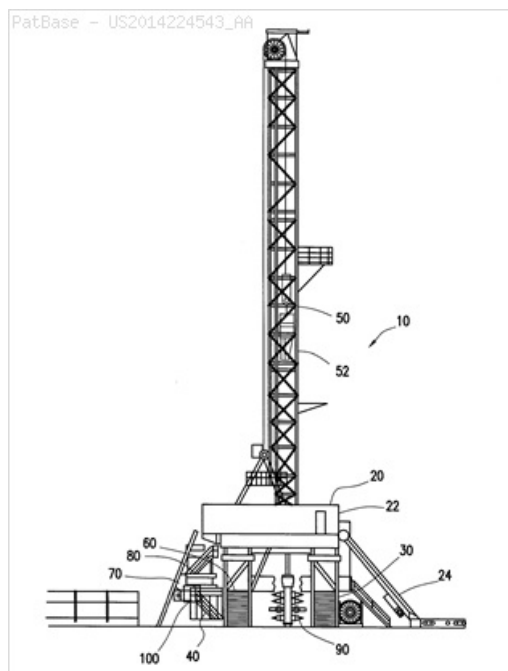
Classifications:**International (IPC 8-9):** E04H12/34 E21B15/00 E21B19/14 E21B21/06

E21B21/10 E21B33/06 E21B7/02 (Advanced/Invention);

E21B21/06 (Advanced/Non-invention)

CPC: E21B7/02 E21B21/065 E21B21/106 E21B33/06 E21B15/003

E04H12/345 E21B19/14 E21B15/00 E21B21/063

US: 166/75.11 175/52 175/85 52/116**Family:**

Publication number	Publication date	Application number	Application date
US2014224543 AA	20140814	US20140180049	20140213
US2015218891 AA	20150806	US20150616234	20150206
US2016298394 AA	20161013	US20160191140	20160623
US2016369570 AA	20161222	US20160191094	20160623
US2017292334 AA	20171012	US20170623143	20170614
US2018119496 AA	20180503	US20170853283	20171222
US2018163426 AA	20180614	US20180893463	20180209
US2018258665 AA	20180913	US20180977997	20180511
US2018320401 AA	20181108	US20180035375	20180713
US2019203495 AA	20190704	US20190244974	20190110
US9708861 BB	20170718	US20150616234	20150206
US9810027 BB	20171107	US20140180049	20140213
US9926719 BB	20180327	US20160191140	20160623
US10094137 BB	20181009	US20180893463	20180209
US10094176 BB	20181009	US20160191094	20160623
US10214937 BB	20190226	US20180035375	20180713
US10221631 BB	20190305	US20170853283	20171222
US10280692 BB	20190507	US20170623143	20170614

Priority:

US20130764259P	20130213	US20140180049	20140213	US20150616234	20150206
US20160191140	20160623	US20160191094	20160623	US20170623143	20170614
US20170853283	20171222	US20180893463	20180209	US20180977997	20180511
US20180035375	20180713	US20190244974	20190110		

Probable Assignee: NABORS DRILLING TECHNOLOGIES USA INC**Assignee(s):** (std): NABORS DRILLING TECH USA INC ; NABORS DRILLING USA ; NABORS DRILLING USA LP**Assignee(s):** NABORS DRILLING TECHNOLOGIES USA INC**Inventor(s):** (std): GUPTA ASHISH ; PADIRA REDDY ; REDDY PADIRA**Agent(s):** ADOLPH; LOCKLAR ADOLPH; ADOLPH LOCKLAR

Title: POST AND NON-ELONGATED SUBSTRUCTURE DRILLING RIG

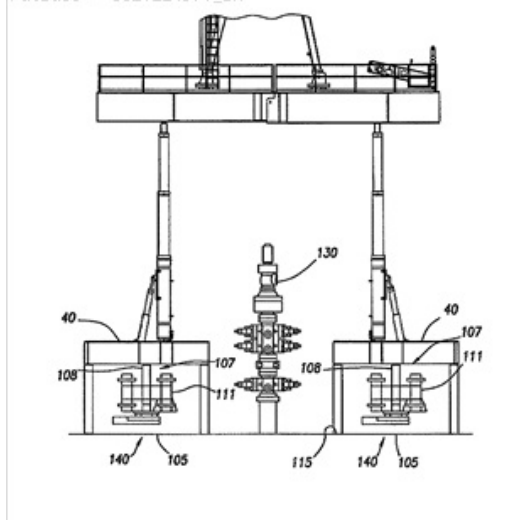
Abstract: A land-based drilling rig includes a drill rig floor, the drill rig floor including a V-door, a side of the drill rig floor having the V-door defining a V-door side of the drill rig floor and an opposite V-door side of the drill rig floor opposite the V-door side of the drill rig floor. The land-based drilling rig also includes a mast, the mast mechanically coupled to the drill rig floor. Further, the land-based drilling rig includes at least four support bases, each support base coupled to the drill rig floor by a telescoping support arm, the support base and telescoping arm forming a support, wherein the support bases are square or cylindrical.

Classifications:

International (IPC 8-9): E21B15/00 E21B7/02 (Advanced/Invention)

CPC: E21B15/003

PatBase - US10214970_BA



Family:

Publication number	Publication date	Application number	Application date
US10214970 BA	20190226	US20180006248	20180612
US10358877 BA	20190723	US20190246468	20190112

Priority:

US20180006248 20180612 US20190246468 20190112

Probable Assignee:

NABORS DRILLING TECH USA INC

Assignee(s): (std):

NABORS DRILLING TECH USA INC

Assignee(s):

NABORS DRILLING TECHNOLOGIES USA INC

Inventor(s): (std):

GUPTA ASHISH ; ABARCA ENRIQUE

Agent(s):

LOCKLAR ADOLPH

Title: Apparatus and method for moving rig structures

Abstract: Disclosed is an improved apparatus and method of moving a large, heavy structure or piece of machinery, such as an oil rig structure on an offshore platform. A plurality of load bearing plates are provided for supporting the structure. Each of the load bearing plates rides upon a plurality of rollers connected together by an endless chain revolving about a central core member when the structure is to be moved. A motor drives the endless chain connecting the rollers on which at least one of the load bearing plates rides when the structure is to be moved. A worm gear coupled to the motor transmits the motion of the motor to the endless chain to translate the structure across a platform.

Classifications:

International (IPC 8-9): E02B17/00 (Advanced/Invention);

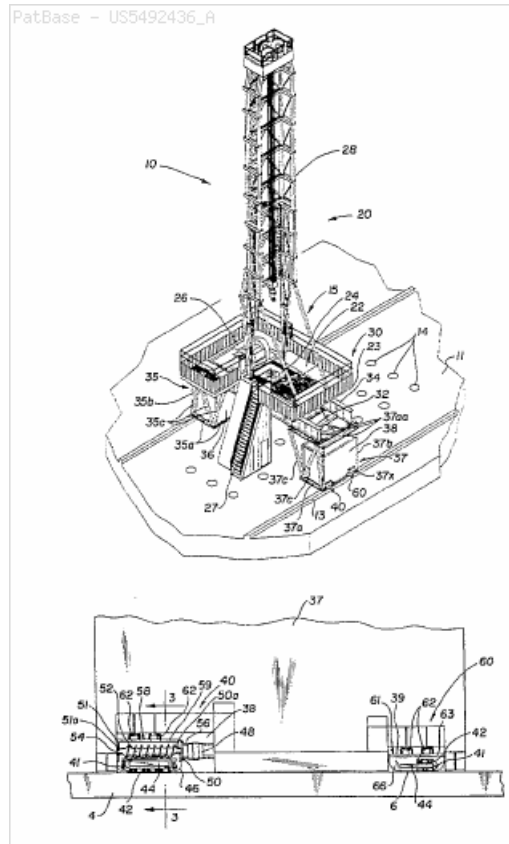
E02B17/00 (Core/Invention)

International (IPC 1-7): E02B17/00

CPC: E02B17/00

European: E02B17/00

US: 166/366 180/7.2 180/72 254/103 301/5.23 301/523 305/185 305/39 405/201

**Family:**

Publication number	Publication date	Application number	Application date
US5492436 A	19960220	US19940227790	19940414

Priority:

US19940227790 19940414

Probable Assignee:

POOL CO

Assignee(s): (std):

POOL CO

Assignee(s):

POOL COMPANY

Inventor(s): (std):

SUKSUMAKE S KARL

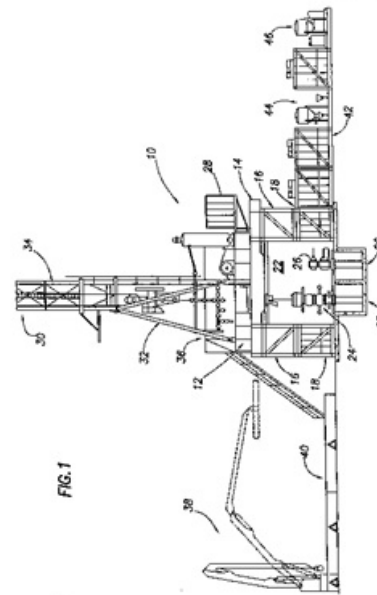
4) Family number: 14932403 (US6161358A)

© PatBase

Title: Modular mobile drilling system and method of use

Abstract: A modular mobile drilling system and method of use supports land-based drilling operations on remote sites. Plural support boxes fixedly deployed in first and second rows define a drilling zone. A plurality of platform support beams disposed from the first row to the second row support a platform for holding drilling equipment. An actuator associated with the platform and beams skids the support beams relative to the boxes to align the platform with predetermined positions in the drilling zone, allowing the drilling of multiple wells along the length of the support box rows. The drilling equipment can also skid laterally across the drilling platform to support drilling of multiple rows of wells in the drilling zone. The drilling platform is supported by some but not all of the support boxes, enabling modular transportation by helicopter of support boxes to a new remote drilling site, disassembly of the drilling platform at the existing site, reassembly of the drilling platform on the transported boxes at the new site, and then transportation of remaining boxes from the existing site to the new site to support new drilling operations. The box-on-box substructure and skiddable drilling platform enhance transportability by helicopter and assembly with minimal footprint and reduced assembly steps.

Classifications:**International (IPC 8-9):** E21B15/00 E21B7/02 (Advanced/Invention)**International (IPC 1-7):** E04H12/00 E21B7/02**CPC:** E21B15/00 E21B15/003**European:** E21B15/00 E21B15/00F**US:** 405/201 405/303 52/651.05

**Family:**

Publication number	Publication date	Application number	Application date
CA2279148 AA	20000128	CA19992279148	19990728
US6161358 A	20001219	US19990360964	19990727

Priority:

US19980094389P 19980728 US19990360964 19990727 CA19992279148 19990728

Probable Assignee: NABORS DRILLING INT LTD

Assignee(s): (std): NABORS DRILLING INTERNATIONAL

Assignee(s): STRONACH STEVAN D ; STRONACH STEVE ; MEISSNER SIEGFRIED ; MOCHIZUKI DAVID A ; NABORS DRILLING INT ; NABORS DRILLING INT LTD ; NABORS DRILLING INTERNATIONAL LIMITED

Inventor(s): (std): MOCHIZUKI DAVID A ; MEISSNER SIEGFRIED ; STRONACH STEVAN D ; STRONACH STEVE

Agent(s): KIRBY EADES GALE BAKER

5) Family number: 67744871 (US2017350153A)

© PatBase

Title: SIDE SADDLE SLINGSHOT DRILLING RIG

Abstract: A side saddle slingshot drilling rig includes a left and right substructure including a left and right lower box. The side saddle slingshot drilling rig includes a drill rig floor mechanically and pivotably coupled to the left and right lower boxes such that it is pivotably movable from a lowered position to a raised position. The drill rig floor includes a V-door. The V-door is positioned on the V-door side of the drill rig floor. The V-door side of the drill rig floor is oriented to face the right substructure. A mast coupled to the drill rig floor may include an open side, defining a mast V-door side. The mast V-door side may be oriented to face the right substructure. The mast may pivot into its raised position or may be a bootstrap mast.

Classifications:

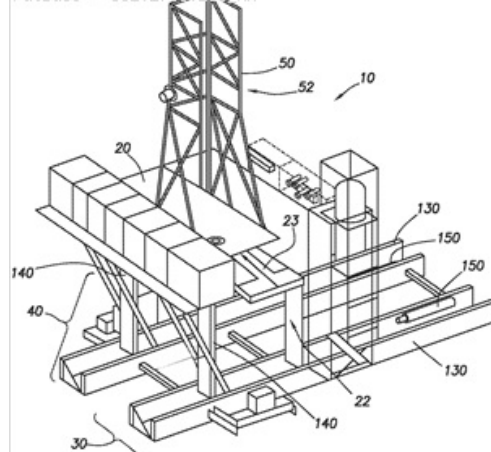
International (IPC 8-9): B66F3/24 B66F3/28 B66F7/06 B66F7/08

E04H12/34 E21B15/00 E21B7/02 (Advanced/Invention)

CPC: E04H12/345 E21B15/003 B66F3/24 B66F3/28 B66F7/0633 B66F7/08 E21B7/02

US: 52/116

PatBase - US2017350153_AA



Family:

Publication number	Publication date	Application number	Application date
CA3025968 AA	20181128	CA20173025968	20170606
CN109312601 A	20190205	CN201780034973	20170606
CO20180012922 A2	20181214	CO20180012922	20181128
NO20181670 A	20181221	NO20180001670	20181221
US2017350153 AA	20171207	US20170615322	20170606
US2019145122 AA	20190516	US20190246472	20190112
US10214936 BB	20190226	US20170615322	20170606
WO17214148 A1	20171214	WO2017US36156	20170606

Priority:

US20160346982P 20160607 US20170615322 20170606 WO2017US36156 20170606
US20190246472 20190112

Probable Assignee: NABORS DRILLING TECH USA INC

Assignee(s): (std): NABORS DRILLING TECH USA INC

Assignee(s): NABORS DRILLING TECHNOLOGIES USA INC ; REDDY PADIRA ; GUPTA ASHISH

Inventor(s): (std): GUPTA ASHISH ; GUPTA JR ASHISH ; REDDY PADIRA

Inventor(s): GUPTA JR

Agent(s): SMART AND BIGGAR; LOCKLAR ADOLPH; LOCKLAR MICHAEL

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

6) Family number: 54126139 (US2013153309A)

© PatBase

Title: CENTERING DEVICE FOR LOAD TRANSPORTING APPARATUS

Abstract: Embodiments of the present invention are directed to a load transporting apparatus that automatically centers a support foot of the apparatus about a roller assembly during a recovery phase of an incremental walking movement. In particular, the load transporting apparatus includes guide devices positioned adjacent to a roller assembly that deflect a biasing device during non-linear load transporting movements, where the biasing device acts to automatically return the support foot to a centered position relative to the roller assembly after a non-linear movement has been completed and the support foot is raised above a ground surface.

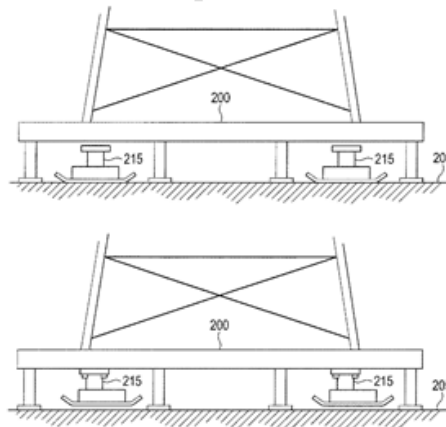
Classifications:

International (IPC 8-9): B60S9/205 B62D51/06 B62D57/00 B62D57/02 B62D57/032 B65G7/02 B66F11/00 B66F19/00 B66F3/46 B66F9/06 E21B15/00 E21B7/02 F16M11/42 F16M3/00 F16M7/00 (Advanced/Invention)

CPC: E21B15/006 E21B15/003 B62D57/032 B62D57/02

US: 1/1 166/381 166/85.1 180/8.1 180/8.5 180/8.6 414/800

PatBase - US2013153309_AA

**Family:**

Publication number	Publication date	Application number	Application date
CA2798743 AA	20130616	CA20122798743	20121213
CA2798743 C	20150811	CA20122798743	20121213
CA2798774 AA	20130616	CA20122798774	20121213
CA2798774 C	20150901	CA20122798774	20121213
CA2798790 AA	20130616	CA20122798790	20121213
CA2798790 C	20151013	CA20122798790	20121213
CA2871406 AA	20160430	CA20142871406	20141117
CA2975129 AA	20180726	CA20172975129	20170802
US2013153309 AA	20130620	US20120711315	20121211
US2013156538 AA	20130620	US20120711193	20121211
US2013156539 AA	20130620	US20120711269	20121211
US2013277124 AA	20131024	US20130917531	20130613
US2014014417 AA	20140116	US20130028150	20130916
US2014158342 AA	20140612	US20130909969	20130604
US2014161581 AA	20140612	US20130028111	20130916
US2015053426 AA	20150226	US20140529566	20141031

US2016194041 AA	20160707	US20160997174	20160115
US2016221620 AA	20160804	US20160094664	20160408
US2017021880 AA	20170126	US20160285366	20161004
US2017327166 AA	20171116	US20170666149	20170801
US2018086399 AA	20180329	US20170828073	20171130
US2018290700 AA	20181011	US20180971927	20180504
US8490724 BB	20130723	US20120711315	20121211
US8561733 BB	20131022	US20120711269	20121211
US8573334 BB	20131105	US20120711193	20121211
US8839892 BB	20140923	US20130917531	20130613
US9004203 BB	20150414	US20130028150	20130916
US9045178 BB	20150602	US20130028111	20130916
US9096282 BB	20150804	US20130909969	20130604
US9463833 BB	20161011	US20160094664	20160408
US9533723 BB	20170103	US20140529566	20141031
US9862437 BB	20180109	US20160285366	20161004
US9988112 BB	20180605	US20170828073	20171130
USRE46723 E	20180220	US20160141587	20160428
US10207756 BB	20190219	US20180971927	20180504

Priority:

US20110576657P	20111216	US20120711269	20121211	US20120711193	20121211
US20120711315	20121211	CA20122798743	20121213	CA20122798774	20121213
CA20122798790	20121213	US20130757517P	20130128	US20130909969	20130604
US20130917531	20130613	US20130028150	20130916	US20130028111	20130916
US20140529566	20141031	US20160997174	20160115	US20160094664	20160408
US20160141587	20160428	US20160285366	20161004	US20170450876P	20170126
US20170666149	20170801	US20170828073	20171130	US20180971927	20180504

Probable Assignee: ENTRO IND INC

Assignee(s): (std): ENTRO IND INC ; SMITH HARLAN B ; SMITH SHAWN R

Assignee(s): CAREY JUSTIN M

Inventor(s): (std): CAREY JUSTIN M ; UNGER BRIAN ; SMITH SHAWN ; SMITH HARLAN ; SMITH HARLAN B ; SMITH SHAWN R

Agent(s): GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; STOLOWITZ FORD COWGER LLP; SCHWABE WILLIAMSON AND WYATT

7) Family number: 51416010 (US2012167485A)

© PatBase

Title: FAST TRANSPORTABLE DRILLING RIG SYSTEM

Abstract: The present invention discloses a high-capacity drilling rig system that includes novel design features that alone and more particularly in combination facilitate a fast rig-up and rig-down with a single set of raising cylinders and maintains transportability features. In particular, a transport trailer is disclosed having a first support member and a drive member which align the lower mast portion with inclined rig floor ramps and translate the lower mast legs up the ramps and into alignment for connection. A pair of wing brackets is pivotally deployed from within the lower mast width for connection to the raising cylinder for raising the mast from a horizontal position into a vertical position. A cantilever is pivotally deployed from beneath the rig floor to a position above it for connection to the raising cylinder for raising the substructure from a collapsed position into the erect position.

Classifications:

International (IPC 8-9): E04B1/343 E04H12/00 E04H12/18 E04H12/34

E21B E21B15/00 E21B19/14 (Advanced/Invention);

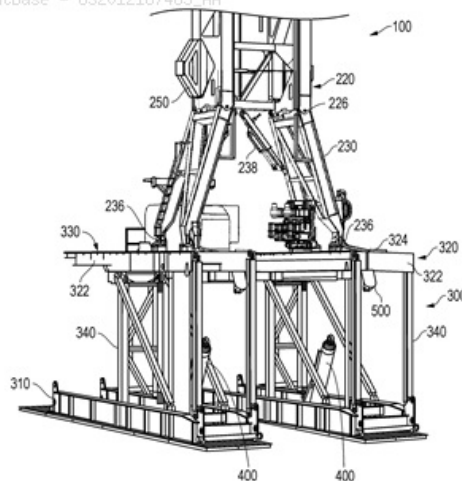
E21B15/00 (Core/Invention)

CPC: E04H12/345 E04H12/187 E21B15/00

European: E21B15/00

US: 1/1 52/112 52/112P 52/115 52/115S 52/117 52/117S 52/119 52/143 52/143S 52/645 52/645S 52/745.17 52/745.170S

PatBase - US2012167485 AA



Family:

Publication number	Publication date	Application number	Application date
BR112013016840 A2	20170801	BR20131116840	20111222
CA2854028 AA	20140429	CA20112854028	20111222
CA2854028 C	20190430	CA20112854028	20111222
CN103339340 A	20131002	CN201180063822	20111222
CN103339340 B	20160413	CN201180063822	20111222

■ HK1188474 A1	20140502	HK20140101533	20140218
■ MX2013007644 A1	20131008	MX20130007644	20111222
■ MX336428 B	20160118	MX20130007644	20111222
■ RU2013129448 A	20150210	RU20130129448	20111222
■ RU2564297 C2	20150927	RU20130129448	20111222
■ US2012167485 AA	20120705	US20110335749	20111222
■ US2016017627 AA	20160121	US20150709676	20150512
■ US2016017628 AA	20160121	US20150709688	20150512
■ US2016017629 AA	20160121	US20150709694	20150512
■ US2017328081 AA	20171116	US20170664145	20170731
■ US9027287 BB	20150512	US20110335749	20111222
■ US9359784 BB	20160607	US20150709688	20150512
■ US9702161 BB	20170711	US20150709676	20150512
■ US9719271 BB	20170801	US20150709694	20150512
■ WO12092147 A2	20120705	WO2011US66961	20111222
■ WO12092147 A3	20130627	WO2011US66961	20111222

Priority:

US20100428778P 20101230 US20110335749 20111222 WO2011US66961 20111222
US20150709676 20150512 US20150709694 20150512 US20150709688 20150512
US20170664145 20170731

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): (std): JAMISON DARRELL E ; ORGERON KEITH J ; RODRIGUEZ GUS E ; SCHLUMBERGER TECH CORP ; T AND T ENGINEERING SERVICES INC ; TREVITHICK MARK W ; SCHLUMBERGER TECHNOLOGY CORP ; T AND T ENG SERVICES INC

Assignee(s): T AND T ENGINEERING SERVICES INC200 - 16131 NORTH ELDRIDGE PARKWAYTOMBALLTX77377US ; SCHLUMBERGER CANADA LTD

Inventor(s): (std): MARK W TREVITHICK ; DARRELL E JAMISON ; GUS E RODRIGUEZ ; KEITH J ORGERON ; RODRIGUEZ GUSTAVO ; RODRIGUEZ GUS ; JAMISON DARRELL ; ORGERON KEITH ; TREVITHICK MARK ; JAMISON DARRELL E ; RODRIGUEZ GUS E ; ORGERON KEITH J ; TREVITHICK MARK W

Inventor(s): JAMISON DARRELL EUS ; TREVITHICK MARK WUS ; RODRIGUEZ GUS EUS ; ORGERON KEITH JUS

Agent(s): FINLAYSON AND SINGLEHURST; SMART AND BIGGAR; DEACONS; JOHN G; SCHEEF AND STONE LLP; RACHEL E; FISCHER JOHN G

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

8) Family number: 54975100 (US2013269268A)

© PatBase

Title: MOBILE DRILLING RIG WITH TELESOPING SUBSTRUCTURE BOXES

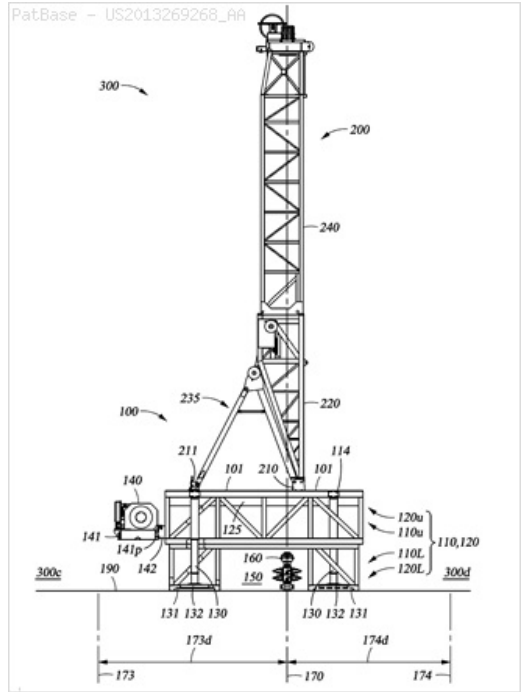
Abstract: Disclosed herein is a telescoping substructure of a drilling rig that includes first and second telescoping substructure boxes. The first and second telescoping substructure boxes each include, among other things, a lower substructure box and an upper substructure box that is adapted to be telescopically raised and lowered relative to the lower substructure box. Furthermore, each telescoping substructure box also includes raising means for telescopically raising and lowering the upper substructure box relative to the lower substructure box between a collapsed configuration for transportation and a raised configuration for drilling operations, wherein each of the first and second telescoping substructure boxes are adapted to facilitate movement of the telescoping substructure in at least one of a lateral direction and a longitudinal direction over wellhead equipment positioned above a wellbore location when the upper substructure boxes are in the raised configuration.

Classifications:

International (IPC 8-9): E04B1/35 E04H12/18 E04H12/34 E04H14/00 E21B15/00 E21B7/02 (Advanced/Invention)

CPC: E21B7/023 E21B15/003 E04H12/345 E04B1/3533 E04H12/187 E04B2001/3588 E21B15/00 E21B7/02 E04B1/3522 E21B15/006 E21B15/045 E04H12/182 E04H2012/006

US: 1/1 175/57 52/116 52/118 52/119 52/745.18



Family:

Publication number	Publication date	Application number	Application date
CA2869979 AA	20141008	CA20132869979	20130417
CA2869979 C	20190416	CA20132869979	20130417
CN104541016 A	20150422	CN201380030673	20130417
CN104541016 B	20180504	CN201380030673	20130417
CN108729856 A	20181102	CN201810293445	20130417
DK2839103 T3	20190722	DK20130718990T	20130417
EP2839103 A2	20150225	EP20130718990	20130417
EP2839103 B1	20190410	EP20130718990	20130417
EP3054079 A1	20160810	EP20160154057	20130417
RU2014145854 A	20160610	RU20140145854	20130417
RU2646294 C2	20180302	RU20140145854	20130417
RU2663850 C1	20180810	RU20180106088	20130417
US2013269268 AA	20131017	US20130863680	20130416
US2015300038 AA	20151022	US20150747091	20150623
US2016251870 AA	20160901	US20160151654	20160511
US9091126 BB	20150728	US20130863680	20130416
US9366053 BB	20160614	US20150747091	20150623
US9869109 BB	20180116	US20160151654	20160511
WO13158695 A2	20131024	WO2013US36860	20130417
WO13158695 A3	20150108	WO2013US36860	20130417

Priority:

US20120625505P 20120417 US20130863680 20130416 CN201380030673 20130417
EP20130718990 20130417 WO2013US36860 20130417 US20150747091 20150623
US20160151654 20160511

Probable Assignee: NATIONAL OILWELL VARCO LP

Assignee(s): (std): BURLET DONALD LEONARD ; KONDOC KAMERON WAYNE ; NAT OILWELL VARCO LP ; THIESSEN JAY JOHN ; NESHNL OJLVELL VARKO EL PI ; NATIONAL OILWELL VARCO INC ; NAT OILWELL VARCO L P

Assignee(s): THIESSEN JAY JOHN2311-113 A STEDMONTONA1T6J 4Y1CA ; NATIONAL OILWELL VARCO LP7909 PARKWOOD CIRCLE DRIVEHOUSTONTX77036US ; NESHNL OJLVELL VARKO ELPI ; KONDOC KAMERON WAYNE8104-84 AVENUEEDMONTONA1T6C 1C7CA ; NATIONAL OILWELL VARCO LP ; BURLET DONALD LEONARD7267 - 152B AVENUEEDMONTONA1T5C 3P9CA

Inventor(s): (std): BURLET DONALD LEONARD ; THIESSEN JAY JOHN ; KONDOC KAMERON WAYNE ; KONDOC WAYNE KAMERON ; BURLET LEONARD DONALD ; THIESSEN JOHN JAY ; TISSEN DZHEJ DZHON ; KONDOC KAMERON UEJN ; BURLET DONALD LEONARD

Inventor(s): BURLET DONALD LEONARD7267 - 152B AVENUEEDMONTONA1T5C 3P9CA ; KONDOC KAMERON WAYNE8104-84 AVENUEEDMONTONA1T6C 1C7CA ; THIESSEN JAY JOHN2311-113 A STEDMONTONA1T6J 4Y1CA

Agent(s): KIRBY EADES GALE BAKER; OXLEY ROBIN JOHN GEORGE; RANKIN DOUGLAS; SOMERVELL THOMAS RICHARD; OOO YURIDICHESKAYA GORODISSKIJ I PARTNER Y FA; AMERSON LAW FIRM PLLC; AMERSON J MIKE

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

Title: LOW PROFILE WALKING MACHINE AND METHOD OF OPERATION

Abstract: A walking system for moving a load over the ground includes a substructure having laterally spaced-apart, rigidly interconnected main beams for carrying the load. A jack support beam is mounted as a cantilever on top of each main beam, and each includes a lifting jack assembly. Each lifting jack assembly includes a power-driven hydraulic cylinder having a ram and foot plate, and each is selectively operable for extending a ram downwardly to force the foot plate against the ground to raise the substructure off the ground, and for retraction to disengage the foot plates from the ground, thereby lowering the substructure to the ground. Each jack lifting assembly includes a shifter mechanism operable for displacing the main beams and the substructure along the ground in a selected steering mode when the lifting jack assemblies are actuated to raise the main beams and the substructure above the ground.

Classifications:

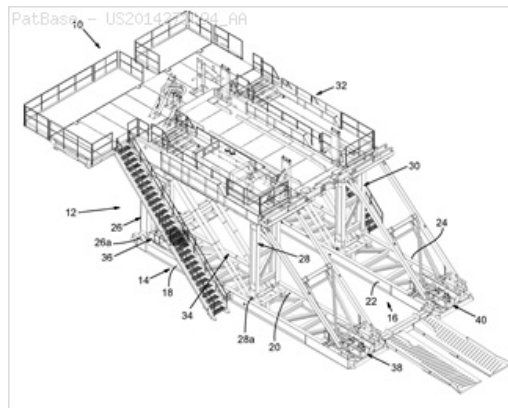
International (IPC 8-9): B62D51/06 B62D57/02

E21B15/00 (Advanced/Invention);

B62D57/032 (Advanced/Non-invention)

CPC: B62D57/02 B62D57/032 E21B15/00

US: 1/1 180/8.1 414/800

**Family:**

Publication number	Publication date	Application number	Application date
■ US2014271094 AA	20140918	US20130841808	20130315
■ US9132871 BB	20150915	US20130841808	20130315

Priority:

US20130841808 20130315

Probable Assignee: COLUMBIA TRAILER CO INC

Assignee(s): (std): COLUMBIA IND LLC ; COLUMBIA TRAILER CO INC

Assignee(s): BANNER BANK ; COLUMBIA TRAILER CO

Inventor(s): (std): WASSON DUANE ; CRISP IRA ; CSERGEI STEVEN A

Agent(s): KOLISCH HARTWELL PC

Title: DRILL RIG MOVING SYSTEM

Abstract: The present invention discloses a drill rig relocation system. Lift frames are provided at opposite ends of a base box of a drill rig substructure. A lift cylinder and bearing mat assembly are rotatably connected beneath the lift frame. The bearing mat assemblies may be rotated to the desired direction for moving the drill rig. The lift cylinders are then expanded, placing the bearing mat assemblies onto the ground and lifting the base boxes and drill rig off the ground. The drill rig is supported on linear sleeve bearings slideably mounted in the bearing mat assemblies. Translation cylinders on the bearing mats expanded to move the rig by translating the linear sleeve bearings along the shafts. After the lift cylinder expands to place the bearing mat on the ground, the translation cylinders are retracted, providing the linear bearing with the full length of the shaft for the next movement.

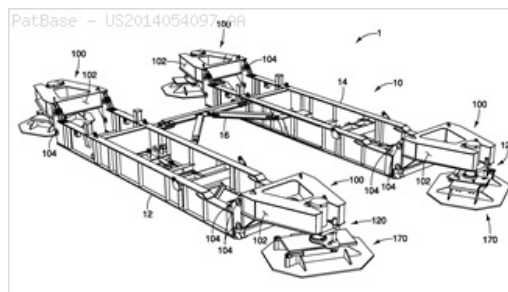
Classifications:

International (IPC 8-9): B62D57/02 B62D57/032 E02F3/00 E21B15/00

E21B4/16 E21F13/00 (Advanced/Invention)

CPC: B62D57/02 E21B15/003 E21F13/006

US: 1/1 180/6.48 180/8.1 180/8.5 180/8.6 280/761

**Family:**

Publication number	Publication date	Application number	Application date
■ CA2864487 AA	20140813	CA20132864487	20130214
■ CA2864487 C	20151103	CA20132864487	20130214
■ CN104204396 A	20141210	CN201380016150	20130214
■ CN104204396 B	20160907	CN201380016150	20130214
■ MX2014009838 A1	20150310	MX20140009838	20130214
■ MX352327 B	20171117	MX20140009838	20130214

US2014054097 AA	20140227	US20130767571	20130214
US2015166134 AA	20150618	US20150590936	20150106
US8925658 BB	20150106	US20130767571	20130214
US9168962 BB	20151027	US20150590936	20150106
WO13123221 A1	20130822	WO2013US26181	20130214

Priority:

US20120598789P 20120214 US20130767571 20130214 WO2013US26181 20130214
US20150590936 20150106

Probable Assignee: T AND T ENGINEERING SERVICES INC

Assignee(s): (std): SCHLUMBERGER TECHNOLOGY BV ; TREVITHICK MARK W ; T AND T ENGINEERING SERVICES INC ; BRYANT F ALLAN ; ORGERON KEITH J

Assignee(s): SCHLUMBERGER CANADA LTD ; T AND T ENGINEERING SERVICES INC200 - 16131 NORTH ELDRIDGE PARKWAYTOMBALLTX77377US

Inventor(s): (std): TREVITHICK MARK W ; ORGERON KEITH J ; BRYANT F ALLAN ; ZAPICO JAMES ; FIRTH GARY ; METZ ROBERT ; WILLIAMS BOB

Inventor(s): ORGERON KEITH JUS ; BRYANT F ALLANUS ; TREVITHICK MARK WUS

Agent(s): FINLAYSON AND SINGLEHURST; JASPAL S; JOHN G; SCHEEF AND STONE LLP; FISCHER JOHN G

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

11) Family number: 28301245 (US2002185319A)

© PatBase

Title: METHOD AND APPARATUS FOR TRANSPORTING AND STEERING A LOAD

Abstract: A load-carrying transport apparatus for moving a heavy load, such as an oil drilling rig, over a surface includes a substructure for carrying the load, a track member positioned on the surface adjacent the substructure and a plurality of lift assemblies mounted on the substructure selectively operable for extension toward the surface to engage the track member and raise the substructure above the surface so that it is carried on the track member. The lift assemblies are also operable for retraction to lower the substructure onto the surface. A shifter mechanism disposed adjacent to the substructure and the track member is selectively operable for displacing the substructure along the track member when the lifting assemblies have been extended toward the surface to raise the substructure above the surface. The shifter mechanism is also operable for displacing the track member on the surface relative to the substructure when the lifting assemblies have been retracted and disengaged from the track member. The track member is dimensioned to provide a steering area and at least one of the lifting assemblies is selectively positionable to a predetermined angle within a range for moving in the steering area along the track member so that the load-carrying apparatus can be steered along a selected direction.

Classifications:

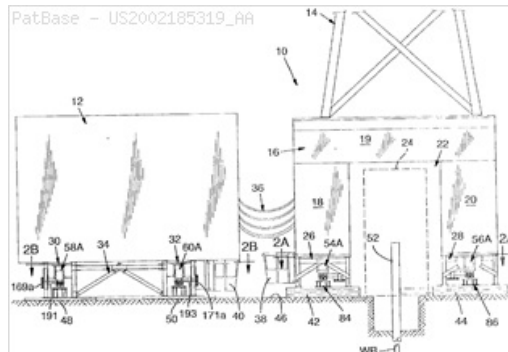
International (IPC 8-9): B62D55/00 B62D57/02 (Advanced/Invention); B62D55/00 (Core/Invention)

International (IPC 1-7): B61B12/10 B62D51/06 B62D55/00 B62D57/02

CPC: B62D55/00 E21B15/003

European: B62D55/00

US: 104/96 180/7.1 180/71 180/8.1 180/9



Family:

Publication number	Publication date	Application number	Application date
CA2367182 AA	20021109	CA20022367182	20020109
CA2367182 C	20050920	CA20022367182	20020109
US2002185319 AA	20021212	US20010852434	20010509
US6581525 BB	20030624	US20010852434	20010509

Priority:

US20010852434 20010509 CA20022367182 20020109

Probable Assignee: COLUMBIA TRAILER CO INC DBA COLUMBIA CORP

Assignee(s): (std): COLUMBIA TRAILER CO INC ; SMITH HARLAN B

Assignee(s): COLUMBIA TRAILER CO INC DBA COLUMBIA CORP ; BANNER BANK ; COLUMBIA TRAILER CO

Inventor(s): (std): SMITH HARLAN B

Agent(s): FETHERSTONHAUGH AND CO

12) Family number: 11630648 (US5921336A)

© PatBase

Title: WALKING SUBSTRUCTURE DEVICE

Abstract: A walking substructure device having a drilling rig substructure. A plurality of lifting jacks is provided, each lifting jack

having an upper end and a lower end, the upper end connected to the drilling rig substructure. A plurality of roller assemblies is provided, each roller assembly connected to the lower end of one of the jacks, each roller assembly pivotal radially about an axis of the lifting jack. A plurality of jack pads is provided, with each jack pad having a center beam wherein one of the roller assemblies engages the center beam and rolls thereon. A push-pull mechanism extends between each jack pad and each roller assembly in order to move the shoe assemblies in relation to the drilling substructure.

Classifications:

International (ipc 8-9): B62D57/00 E02B17/00 E21B15/00

E21B7/02 (Advanced/Invention);

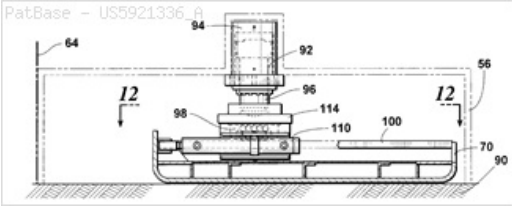
B62D57/00 E02B17/00 E21B15/00 (Core/Invention)

International (ipc 1-7): B62D57/02 E02B17/00 E21B15/00 E21B7/02

CPC: B62D57/00 E21B15/003

European: B62D57/00

US: 180/8.1 180/8.5 180/8.6 180/81 180/85 180/86



Family:

Publication number	Publication date	Application number	Application date
CA2243465 AA	19990316	CA19982243465	19980716
CO4850593 A1	19991026	CO19980049019	19980827
US5921336 A	19990713	US19970931501	19970916

Priority:

US19970931501 19970916 CA19982243465 19980716

Probable Assignee:

PARKER DRILLING CO

Assignee(s): (std):

PARKER DRILLING CO

Assignee(s):

PARKER DRILLING COMPANY ; REED LOWELL M

Inventor(s): (std):

REED LOWELL M ; LOWELL M REED

Inventor(s):

M REED LOWELL

Agent(s):

SMART AND BIGGAR; GERMAN CASTILLO GRAU