

Search history

Search 1: rig and (door and v) and mast (Results 329)
Search 2: frame and 1 (Results 230)
Search 3: IC=(e21b) (Results 378068)
Search 4: 3 and 2 (Results 153)

1) Family number: 67744871 (US2017350153 AA)

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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.

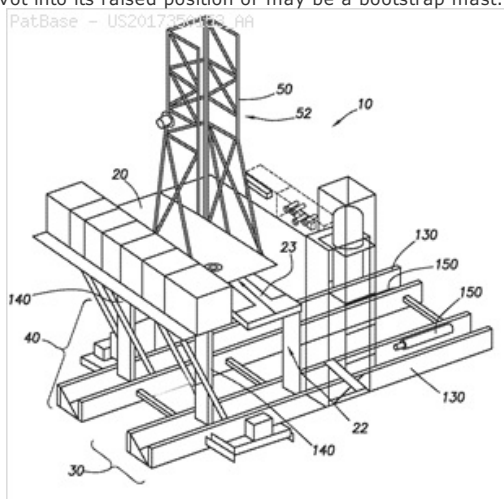
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International (IPC 8-9): B66F3/24 B66F3/28 B66F7/06 B66F7/08 E04H12/34 E21B15/00 E21B7/02

CPC: B66F3/24 B66F3/28 B66F7/0633 B66F7/08 E04H12/345

E21B15/003 E21B7/02

US: 1/1 52/116



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
RU2018144430 A	20200615	RU20180144430	20170606
US10214936 BB	20190226	US20170615322	20170606
US2017350153 AA	20171207	US20170615322	20170606
US10731375 BB	20200804	US20190246472	20190112
US2019145122 AA	20190516	US20190246472	20190112
US2020270892 AA	20200827	US20200874288	20200514
WO17214148 A1	20171214	WO2017US36156	20170606

Priority:

US20160346982P 20160607 WO2017US36156 20170606 US20170615322 20170606
US20190246472 20190112 US20200874288 20200514

Probable Assignee: NABORS DRILLING TECH USA INC

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

Assignee(s): GUPTA ASHISH ; NABORS DRILLING TECHNOLOGIES USA INC ; REDDY PADIRA ; НЭЙБОРЗ ДРИЛЛИНГ ТЕХНОЛОДЖИ США ИНК ; 内博斯钻井技术美国公司

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

Inventor(s): A 古普塔 ; A·古普塔 ; GUPTA JR ; P 雷蒂 ; P·雷蒂 ; ГУПТА АШИШ ; РЕДДИ ПАДИРА

Agent(s): LOCKLAR ADOLPH; LOCKLAR MICHAEL; SMART AND BIGGAR; 北京坤瑞律师事务所 11494; 封新琴

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

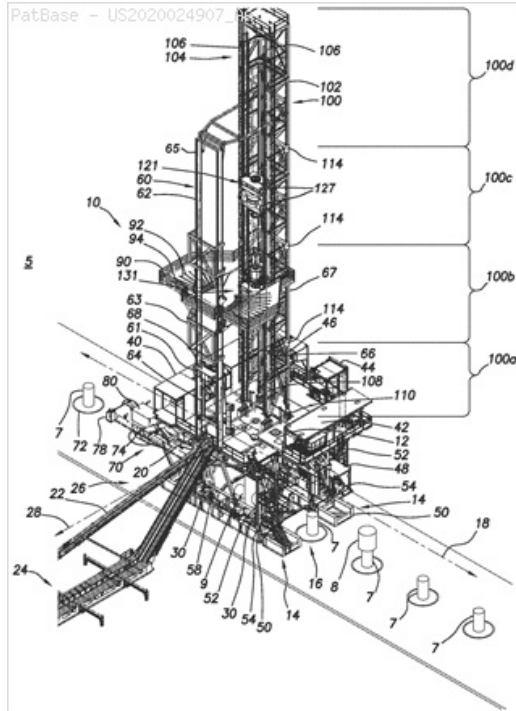
Title: SIDE SADDLE SLINGSHOT CONTINUOUS MOTION RIG

Abstract: A drilling rig includes a rig floor, first and second support structures, a mast, a lower drilling machine, a continuous drilling unit, an upper drilling machine, and an upper mast assembly. The rig floor includes a V-door defining a V-door axis extending perpendicularly from the side of the rig floor that includes the V-door. The first and second support structures define a traverse corridor having a traverse corridor axis, wherein the traverse corridor axis is perpendicular to the V-door axis. The drilling rig may be used for continuous drilling of a wellbore.

Classifications:

International (IPC 8-9): E21B11/00 E21B12/00 E21B15/00
E21B15/04 E21B19/00 E21B21/00 E21B3/00 E21B34/06 E21B7/00
E21B7/02 E21B7/04

CPC: E04H12/34 E21B15/003 E21B15/04 E21B15/045 E21B19/00
E21B19/14 E21B19/155 E21B19/164 E21B21/00 E21B4/16 E21B7/02
E21B7/04



Family:

Publication number	Publication date	Application number	Application date
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CO20190007779 A1	20190830	CO20190007779	20190719
NO20190906 A	20200120	NO20190000906	20190719
US2020024907 AA	20200123	US20190514302	20190717

Priority:

US20180700704P 20180719 US20190514302 20190717

Probable Assignee: NABORS DRILLING TECH USA INC

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

Assignee(s): GUPTA ASHISH ; LEE DENVER ; NABORS DRILLING TECHNOLOGIES USA INC ; REDDY PADIRA ; 内博斯
铂井技术美国公司

Inventor(s): (std): GUPTA ASHISH ; LEE DENVER ; REDDY PADIRA

Inventor(s): 帕迪拉 雷迪 ; 帕迪拉·雷迪 ; 当韦尔 利 ; 当韦尔·利 ; 阿希什 古普塔 ; 阿希什·古普塔

Agent(s): SMART AND BIGGAR LLP; 北京集佳知识产权代理有限公司 11227; 王艳江; 董敏

Title: MAST AND SUBSTRUCTURE

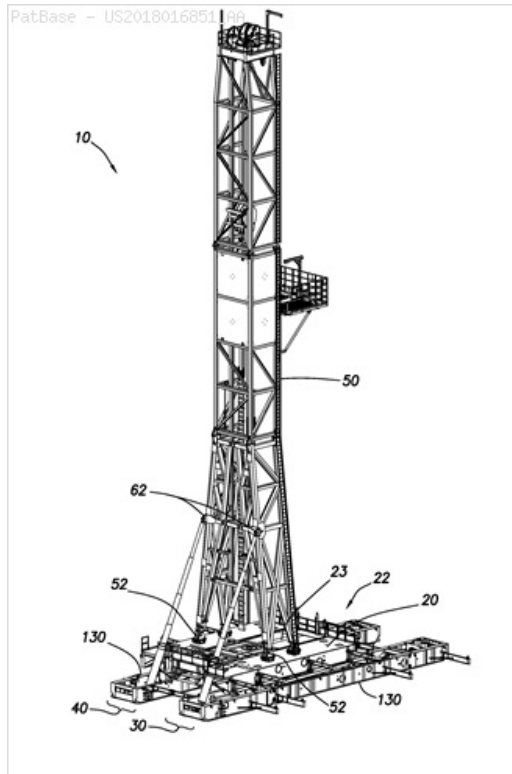
Abstract: A drilling rig may include a right substructure, left substructure, and a drill floor. The drill floor may be pivotably coupled to lower boxes of the left and right substructure by struts. The substructures may include hydraulic cylinders positioned to raise the drill floor and a mast coupled to the drill floor into a raised position.

Classifications:

International (IPC 8-9): B66F11/04 E04B1/344 E04B1/35 E04B1/36 E04B1/38 E04H12/34 E21B15/00 E21B7/02

CPC: B66F11/04 E21B15/00 E21B15/003 E21B7/02

US: 1/1 175/162



Family:

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NO20190151 A	20190204	NO20190000151	20190204
RU2019103656 A	20200810	RU20190103656	20170606
US10648240 BB	20200512	US20170615448	20170606
US2018016851 AA	20180118	US20170615448	20170606
US2020232284 AA	20200723	US20200841082	20200406
WO18013258 A1	20180118	WO2017US36196	20170606

Priority:

US20160361827P 20160713 WO2017US36196 20170606 US20170615448 20170606
US20200841082 20200406

Probable Assignee: NABORS DRILLING TECH USA INC

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

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НЭЙБОРЗ ДРИЛЛИНГ ТЕКНОЛОДЖИ США ИНК ; 内博斯钻井技术美国公司

Inventor(s): (std): GUPTA ASHISH ; HAUSE RYAN ; REDDY PADIRA

Inventor(s): A 古普塔 ; A·古普塔 ; P 莱迪 ; P·莱迪 ; R 海斯 ; R·海斯 ; ГУПТА АШИШ ; РЕДДИ ПАДИРА ; ХАУС РАЙАН

Agent(s): ADOLPH LOCKLAR; LOCKLAR MICHAEL; SMART AND BIGGAR; 北京坤瑞律师事务所 11494; 封新琴

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
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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

4) Family number: 57180462 (US2014224543 AA)

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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:

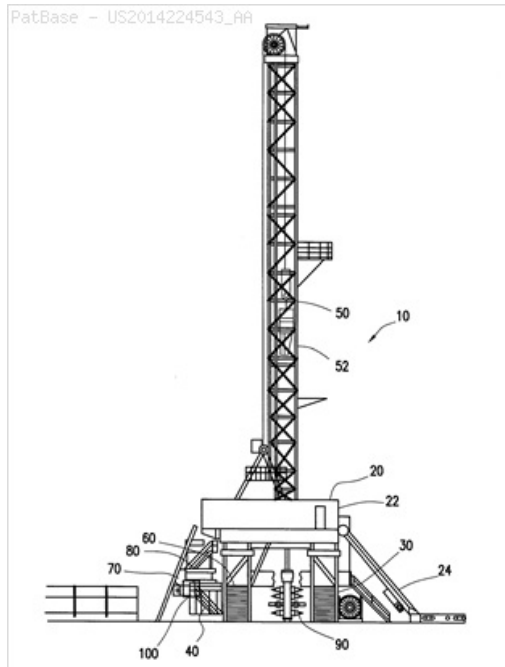
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E21B21/106 E21B33/06 E21B7/02 E21B19/14

US: 1/1 166/75.11 175/52 175/85 52/116 52/745.04

**Family:**

Publication number	Publication date	Application number	Application date
US2014224543 AA	20140814	US20140180049	20140213
US9810027 BB	20171107	US20140180049	20140213
US2015218891 AA	20150806	US20150616234	20150206
US9708861 BB	20170718	US20150616234	20150206
US10094176 BB	20181009	US20160191094	20160623
US2016369570 AA	20161222	US20160191094	20160623
US2016298394 AA	20161013	US20160191140	20160623
US9926719 BB	20180327	US20160191140	20160623
US10280692 BB	20190507	US20170623143	20170614
US2017292334 AA	20171012	US20170623143	20170614
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US2018119496 AA	20180503	US20170853283	20171222
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US2018320401 AA	20181108	US20180035375	20180713
US10094137 BB	20181009	US20180893463	20180209
US2018163426 AA	20180614	US20180893463	20180209
US10407938 BB	20190910	US20180977997	20180511
US2018258665 AA	20180913	US20180977997	20180511
US10557281 BB	20200211	US20190244974	20190110
US2019203495 AA	20190704	US20190244974	20190110
US2020149307 AA	20200514	US20190715040	20191216

Priority:

US20130764259P	20130213	US20140180049	20140213	US20150616234	20150206
US20160191140	20160623	US20160191094	20160623	US20170623143	20170614
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US20180035375	20180713	US20190244974	20190110	US20190715040	20191216

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; ADOLPH LOCKLAR; LOCKLAR ADOLPH**5) Family number: 31171166 (US2004211598 AA)**

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Title: FAST MOVING DRILLING RIG

Abstract: A method and apparatus for transporting and assembling a drilling rig is disclosed. The drilling rig of a preferred embodiment of the present invention utilizes specialized positioning pads integral to the side boxes of the drilling rig to facilitate the connection of the center drill floor of the drilling rig to the side boxes of the rig. A preferred embodiment of the present invention may also utilize a specialized positioning dolly and an adjustable fifth-wheel truck connection for transporting the mast to the drill site, assembling the mast sections together, and positioning the mast for connection to the drill floor of the rig. The result is a unique drilling rig design and sequence for assembly that significantly reduces the time required to transport the rig from location to location and to assemble the rig at the drill site.

Classifications:

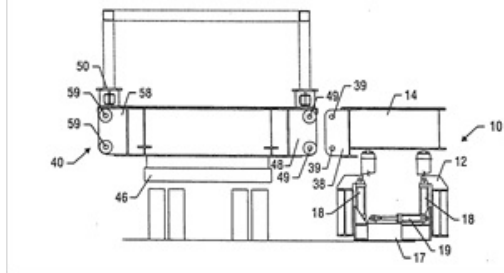
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International (IPC 1-7): B63B E21B0/0 E21B0/00 E21B1/00

E21B15/00 E21B19/08 E21B7/02

CPC: E21B15/00 E21B7/02

US: 173/184 173/186 173/28 175/162 175/203 52/112 52/119 52/7
521/12

**Family:**

Publication number	Publication date	Application number	Application date
BRPI0409719 A	20060502	BR2004PI09719	20040421
BRPI0409719 B1	20160216	BR2004PI09719	20040421
CA2523505 AA	20051024	CA20042523505	20040421
CA2523505 C	20111108	CA20042523505	20040421
EP1627127 A2	20060222	EP20040760318	20040421
EP1627127 A4	20110511	EP20040760318	20040421
EP2639399 A1	20130918	EP20130171835	20040421
MXPA05011502 A1	20060703	MX2005PA11502	20040421
NO20055133 A	20060116	NO20050005133	20051102
NO20055133 A0	20051102	NO20050005133	20051102
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NO334605 B1	20140422	NO20050005133	20051102
NO20131113 A	20060116	NO20130001113	20130815
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NO336001 B1	20150420	NO20130001113	20130815
US2004211598 AA	20041028	US20040827956	20040420
US7765749 BB	20100803	US20040827956	20040420
WO04097158 A2	20041111	WO2004US12388	20040421
WO04097158 A3	20070405	WO2004US12388	20040421
WO04097158 C1	20050519	WO2004US12388	20040421

Priority:

US20030466029P 20030425 US20040827956 20040420 WO2004US12388 20040421
 EP20040760318 20040421

Probable Assignee: NATIONAL OILWELL INC

Assignee(s): (std): NAT OIL WELL L P ; NAT OILWELL INC ; PALIDIS ANASTASIOS

Assignee(s): NATIONAL OIL WELL L P ; NATIONAL OILWELL INC

Inventor(s): (std): PALIDIS ANASTASIOS

Inventor(s): ANASTASIOS PALIDIS

Agent(s): COPSEY TIMOTHY GRAHAM; FINLAYSON AND SINGLEHURST; HOWREY LLP

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

6) Family number: 53990206 (US2013330151 AA)

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Title: TUBULAR STAND BUILDING AND RACKING SYSTEM

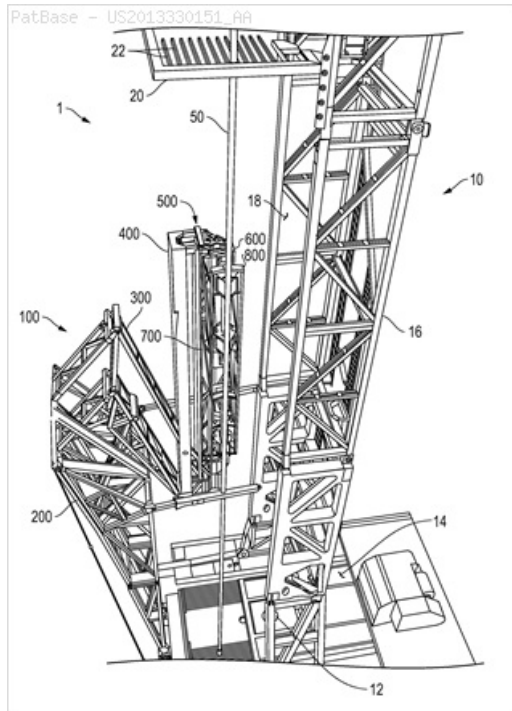
Abstract: The present invention provides a rapid rig-up and rig-down pipe stand building and racking system that is capable of being retrofitted to an existing drilling rig. In particular, the invention relates to a horizontal to vertical pipe delivery machine that is mountable to a drilling rig. The horizontal to vertical machine delivers sections of pipe to a pair of drilling rig mounted elevators. The elevators receive and vertically translate the sections of pipe. A power tong may be used to make connections between the sections of pipe to form a pipe stand, and may also break the connections of the pipe stand. A drill floor mounted pipe racking system receives the connected drill pipe from the elevators. A pipe racking system that may be used in conjunction with the stand building system is capable of controlled, rapid, and precise movement of multiple connected sections of pipe.

Classifications:

International (IPC 8-9): E02B17/00 E21B15/00 E21B19/087 E21B19/14 E21B19/15 E21B19/20

CPC: E21B19/087 E21B19/14 E21B19/155 E21B19/20 E02B17/00 E21B15/00

US: 1/1 414/22.71



Family:

Publication number	Publication date	Application number	Application date
CA2855887 AA	20140513	CA20122855887	20121128
CA2855887 C	20200602	CA20122855887	20121128
CN103958816 A	20140730	CN201280058508	20121128
MX2014006367 A1	20140709	MX20140006367	20121128
MX354609 B	20180308	MX20140006367	20121128
US2013330151 AA	20131212	US20120687974	20121128
US9121235 BB	20150901	US20120687974	20121128
WO13082172 A1	20130606	WO2012US66878	20121128

Priority:

US20110564280P 20111128 US20120687974 20121128 WO2012US66878 20121128

Probable Assignee: T AND T ENGINEERING SERVICES INC

Assignee(s): (std): ORGERON KEITH J ; SCHLUMBERGER TECHNOLOGY BV ; T AND T ENG SERVICES INC ; T AND T ENGINEERING SERVICES INC

Assignee(s): SCHLUMBERGER CANADA LTD ; T AND T ENGINEERING SERVICES INC200 - 16131 NORTH ELDRIDGE PARKWAYTOMBALLTX77377US ; T AND T技术维护公司

Inventor(s): (std): ORGERON KEITH J

Inventor(s): ORGERON KEITH JUS ; 凯斯 J 奥勒格罗恩

Agent(s): FINLAYSON AND SINGLEHURST; FISCHER JOHN G; JOHN G; SCHEEF AND STONE LLP; SMART AND BIGGAR; SMART AND BIGGAR LLP; 中原信达知识产权代理有限公司 11219; 王伟; 陆弋

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

7) Family number: 1341559 (US3991887 A)

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Title: METHOD AND APPARATUS FOR MOVING DRILL PIPE AND CASING

Abstract: A road transportable apparatus for moving drill pipe and casing including a rigid support frame assembly with a bifurcated mast assembly pivotally secured thereto, the support frame assembly being rigidly securable to the walk of a conventional drilling rig pipe rack. A hydraulic power cylinder is employed to rotate the mast assembly relative to the support frame assembly. Power winches are included and operate cables extending therefrom over the outer end of the mast assembly where they are securable to the respective opposite ends of the length of drill pipe or casing suspended therebelow. A hydraulic control system is disclosed for controlling the operation of the power cylinder and the power winches. A demountable trailer frame assembly is provided for supporting the support frame assembly and mast assembly when transported over the ground.

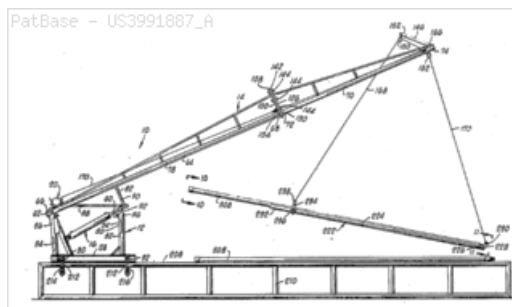
Classifications:

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International (IPC 1-7): E21B19/00

CPC: E21B19/155

US: 214/2.5 414/22.52 414/746.8



Family:

Publication number	Publication date	Application number	Application date
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Priority:

US19750552698 19750224

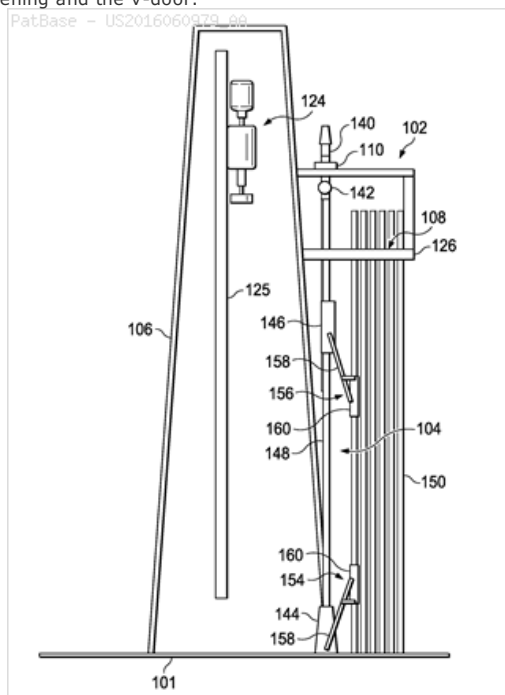
Probable Assignee: TROUT NORMAN L
Assignee(s): (std): TROUT NORMAN L
Inventor(s): (std): TROUT NORMAN L

8) Family number: 61798681 (US2016060979 AA)

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Title: Laterally moving racker device on a drilling rig

Abstract: Apparatus and methods include a well-center drilling opening in a drilling rig floor of a mobile drilling rig and a v-door to the drilling rig. A mast is disposed about the well-center drilling opening and carrying drilling components of a drilling system. The mast supports a fingerboard that includes a plurality of parallel longitudinally extending fingers having openings between ends thereof and being arranged to receive tubulars therebetween. The plurality of fingers extending in the same direction as a line between the well-center drilling opening and the v-door. A racker device is moveable in a lateral direction relative to the direction of the line between the well-center drilling opening and the v-door.

Classifications:**International (IPC 8-9):** E21B19/00 E21B19/14**CPC:** E21B19/14**US:** 414/22.63 414/800 1/1**Family:**

Publication number	Publication date	Application number	Application date
US2016060979 AA	20160303	US20140469984	20140827
US9932783 BB	20180403	US20140469984	20140827

Priority:

US20140469984 20140827

Probable Assignee: NABORS IND INC
Assignee(s): (std): NABORS IND INC
Inventor(s): (std): MAGNUSON CHRISTOPHER
Agent(s): HAYNES AND BOONE LLP

9) Family number: 65808356 (US2017234088 AA)

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Title: HIGH TRIP RATE DRILLING RIG

Abstract: The disclosed embodiments provide a drilling rig having a tubular delivery arm that vertically translates the mast in a non-conflicting path with a retractable top drive. The retractable top drive translates a well center path and a rearward retracted path. The tubular delivery arm is operable to deliver tubular stands between a catwalk, stand hand-off, mousehole, and well center positions. An upper racking mechanism moves tubular stands between a racked position of the racking module and a stand hand-off position between the mast and racking module. A lower racking mechanism controls the movement of the lower end of the tubular stand being moved coincident to the movements of the upper racking mechanism. An upper support constraint stabilizes tubular stands at the stand hand-off position. A lower stabilizing arm guides the lower end of tubular stands between the catwalk, stand hand-off, mousehole, and well center positions.

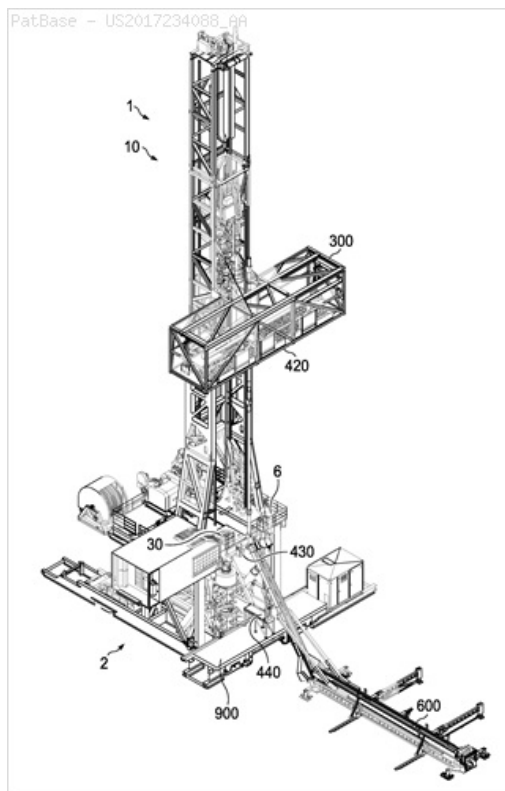
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Family:

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CA3000513 AA	20180328	CA20173000513	20170501
CA3000513 C	20200714	CA20173000513	20170501
CN109312606 A	20190205	CN201780035875	20170501
MX2018013254 A1	20190812	MX20180013254	20170501
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RU2018121718 A	20191219	RU20180121718	20161115
RU2018121718 A3	20191219	RU20180121718	20161115
RU2726780 C2	20200715	RU20180121718	20161115
RU2018121838 A	20191218	RU20180121838	20161115
RU2018121838 A3	20191218	RU20180121838	20161115
RU2726748 C2	20200715	RU20180121838	20161115
RU2018141596 A	20200529	RU20180141596	20170501
RU2018141596 A3	20200616	RU20180141596	20170501
US10655407 BB	20200519	US20160311857	20161115
US10697255 BB	20200630	US20160311857	20161115
US2018087331 AA	20180329	US20160311857	20161115
US10465455 BB	20191105	US20160311860	20161115
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US2017234088 AA	20170817	US20160353798	20161117
US2019145193 AA	20190516	US20170097388	20170501
US10550650 BB	20200204	US20170631115	20170623
US2018135363 AA	20180517	US20170631115	20170623
US2018328112 AA	20181115	US20170770854	20170501
US2018245409 AA	20180830	US20180962276	20180425
US2018238127 AA	20180823	US20180962442	20180425
US2020190920 A9	20200618	US20180962442	20180425
US2020240219 AA	20200730	US20190673481	20191104
US2020123860 AA	20200423	US20190722156	20191220
WO17087349 A1	20170526	WO2016US61952	20161115
WO17087350 A1	20170526	WO2016US61956	20161115
WO17087595 A1	20170526	WO2016US62402	20161117
WO17087595 A8	20170727	WO2016US62402	20161117
WO17190118 A2	20171102	WO2017US30327	20170501
WO17190118 A3	20171207	WO2017US30327	20170501
WO17190120 A1	20171102	WO2017US30329	20170501

Priority:

US20150255997P 20151116

US20160330012P 20160429

US20160330244P 20160501

US20150256013P 20151116

US20160330016P 20160429

US20160330200P 20160501

US20150256586P 20151117

US20160330021P 20160429

WO2016US61956 20161115

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WO2017US30329	20170501	RU20180141596	20170501	US20170770854	20170501
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US20180962442	20180425	US20180770854	20180425	US20180962276	20180425
US20190673481	20191104	US20190722156	20191220		

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): (std): SCHLUMBERGER CA LTD ; SCHLUMBERGER TECH CORP ; SCHLUMBERGER TECHNOLOGY BV ; SCHLUMBERGER TECHNOLOGY CORP ; SERVICES PETROLIERS SCHLUMBERGER

Assignee(s): BERRY JOE RODNEY ; METZ ROBERT ; ORR MELVIN ALAN ; SCHLUMBERGER CANADA LTD ; TREVITHICK MARK W ; ШЛЮМБЕРГЕР ТЕХНОЛОДЖИ Б В ; 斯伦贝谢技术有限公司

Inventor(s): (std): ALAN ORR MELVIN ; BERRY JOE RODNEY ; BERRY JOE RODNEY ; JOE RODNEY BERRY ; MARK W TREVITHICK ; MELVIN ALAN ORR ; METZ ROBERT ; METZ ROBERT W ; ORR ALAN ; ORR ALLAN ; ORR MELVIN ALAN ; ROBERT METZ ; TREVITHICK MARK W

Inventor(s): J R 贝里 ; M A 奥尔 ; M W 特雷维西克 ; R 梅茨 ; БЕРРИ ДЖО РОДНИ ; МЕТЦ РОБЕРТ ; ОРР МЕЛВИН АЛАН ; ТРИВИТИК МАРК В

Agent(s): GREENE RACHEL E ; GREENE RACHEL ET AL ; SMART AND BIGGAR ; SMART AND BIGGAR LLP ; YURIDICHESKAYA GORODISSKIY I PARTNERY OOO FA ; ЮРИДИЧЕСКАЯ ФИРМА ГОРОДИССКИЙ И ПАРТНЕРЫ ООО ; 北京市柳沈律师事务所 11105 ; 卢亚静

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

10) Family number: 78538715 (US2020123861 AA)

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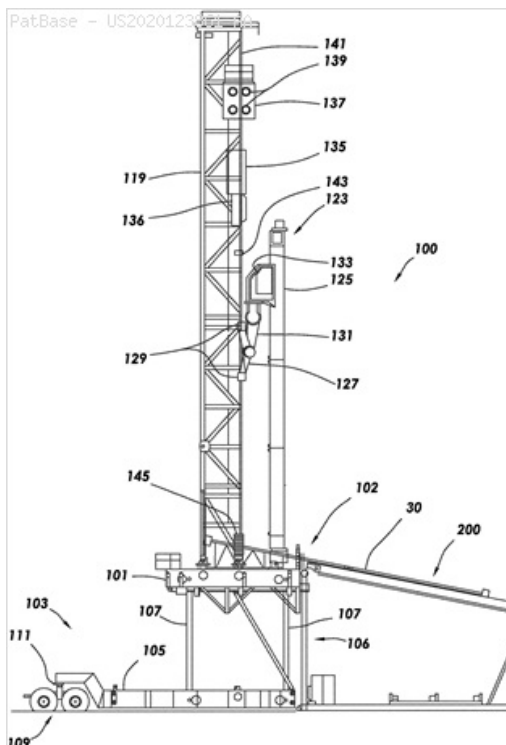
Title: AUTOMATED DRILLING RIG SYSTEM

Abstract: An automated drilling rig system includes a drilling rig and a catwalk system. The drilling rig includes a rig floor, a substructure, a mast, a top drive, and a pipe handling apparatus. The pipe handling apparatus includes a column coupled to the rig floor at a position offset from the well centerline. The catwalk system includes a pipe tub, a catwalk lift frame, and a catwalk assembly. The pipe tub is configured to store one or more tubular members for use with the drilling rig. The catwalk assembly includes a base and a catwalk slide. The catwalk lift frame is coupled to the base of the catwalk assembly and extends substantially vertically to the rig floor. The catwalk slide is coupled to the catwalk lift frame at a first end and pivotably coupled to the base at a second end via a leveling strut. The catwalk slide includes a skate adapted to slide along the length of the catwalk slide.

Classifications:

International (IPC 8-9): E21B15/00 E21B19/15 E21B19/16

CPC: E21B15/003 E21B19/087 E21B19/155 E21B19/161 E21B44/00



Family:

Publication number	Publication date	Application number	Application date
US2020123861 AA	20200423	US20190661059	20191023

Priority:

US20180749668P 20181023 US20180760716P 20181113 US20190661059 20191023

Probable Assignee: NABORS DRILLING TECH USA INC

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

Assignee(s): NABORS DRILLING TECHNOLOGIES USA INC

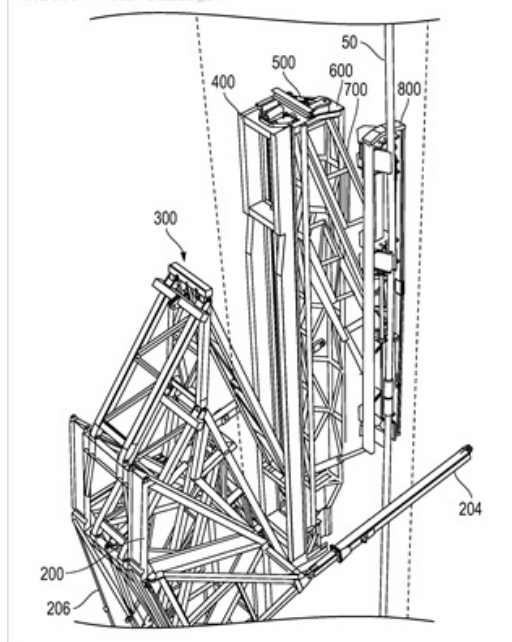
Inventor(s): (std): GUPTA ASHISH ; PATTERSON DEREK ; REDDY PADIRA

Title: DRILL FLOOR MOUNTABLE AUTOMATED PIPE RACKING SYSTEM

Abstract: The present invention relates to an apparatus and method for use in subterranean exploration, and provides a rapid rig-up and rig-down pipe racking system that is capable of being retrofit to an existing drilling rig. In particular, the invention relates to a pipe drill floor mounted pipe racking system that is capable of controlled movement of pipe in three dimensions, and most importantly, capable of rapid and precise movement of multiple connected sections of pipe. The invention is capable of moving stands of connected pipe from a racked position on the drill floor to an accurate stabbing position directly above a drill string component held in a rotary table.

Classifications:**International (IPC 8-9):** E21B19/14 E21B19/15**CPC:** E21B19/14 E21B19/155 E21B19/20**US:** 1/1

PatBase - US9091128_BA

**Family:**

Publication number	Publication date	Application number	Application date
US9091128 BA	20150728	US20120681244	20121119
US9945193 BA	20180417	US20150811675	20150728

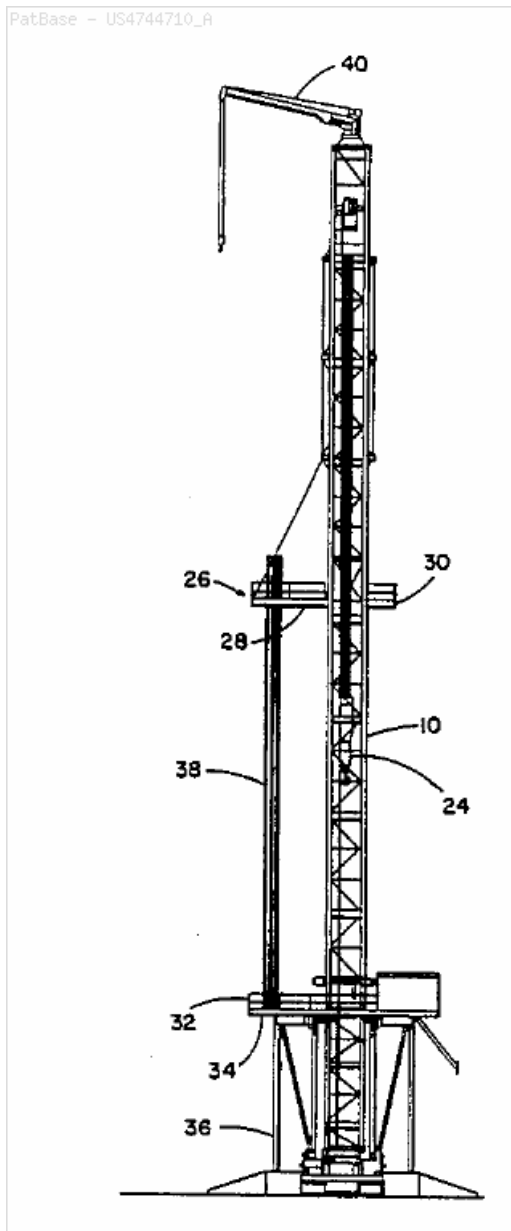
Priority:

US20110561817P 20111118 US20120681244 20121119 US20150811675 20150728

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP**Assignee(s):** (std): SCHLUMBERGER TECH CORP ; SCHLUMBERGER TECHNOLOGY CORP ; T AND T ENGINEERING SERVICES INC**Inventor(s):** (std): JAMISON DARRELL D ; ORGERON KEITH J**Agent(s):** JASPAL S; JOHN G; RACHEL E; SCHEEF AND STONE LLP**Title:** Drilling derrick with external pipe storage

Abstract: A drilling rig which may have a beta mast is used for drilling holes in the earth. The mast has four quadrants. On one side there is located the drawworks. On a side 90 DEG therefrom is the side having the V door through which drilling pipe can be raised and lowered by the traveling block. In the quadrant 180 DEG from the V-door is a pipe racking board. The racking board is outside the normal work area within the derrick. Thus, one can obtain entry of the drill pipe through the V door without the pipe stored in the racking board interfering therewith. With this design there is no limitation to the amount of pipe that can be stored.

Classifications:**International (IPC 8-9):** E21B15/00 E21B19/00 E21B19/14**International (IPC 1-7):** E21B19/14**CPC:** E21B15/00 E21B19/14**US:** 175/52 211/70.4 414/22 414/22.63

**Family:**

Publication number	Publication date	Application number	Application date
US4744710 A	19880517	US19860934419	19861124

Priority:

US19860934419 19861124

Probable Assignee: PARCO MAST AND SUBSTRUCTURES INC A CORP OF OKLAHOM**Assignee(s):** (std): PARCO MAST AND SUBSTRUCTURES**Assignee(s):** PARCO MAST AND SUBSTRUCTURES INC ; PARCO MAST AND SUBSTRUCTURES INC A CORP OF OKLAHOM**Inventor(s):** (std): REED LOWELL M**13) Family number: 62650416** (US2016168929 AA)

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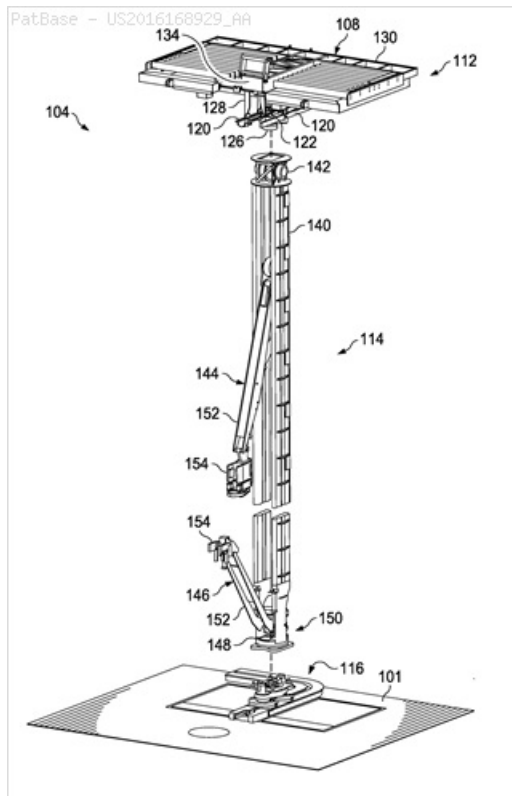
Title: MODULAR RACKER SYSTEM FOR A DRILLING RIG

Abstract: The systems, devices, and methods described herein relate to a modular racker system for a drilling rig. The modular racker includes transportable modules including a lower track module comprising a drilling rig floor that includes a lower track arranged and configured to accommodate a lower carriage. The lower track is permanently fixed to the drilling rig floor so as to form a part of the drilling rig floor and is transportable as part of the drilling rig floor. An upper track module comprises a fingerboard and an upper track arranged and configured to accommodate an upper carriage moveable along the upper track. The upper track is permanently fixed to the fingerboard and is transportable in a connected configuration. The lower and upper track modules are attachable to a racker column module.

Classifications:**International (IPC 8-9):** E21B15/00 E21B19/00 E21B19/08

E21B19/083 E21B19/14 E21B19/20

CPC: E21B19/00 E21B19/08 E21B19/083 E21B19/14 E21B19/20**US:** 166/379 414/22.63



Family:

Publication number	Publication date	Application number	Application date
CA2967040 AA	20170505	CA20152967040	20151112
CA2967040 C	20200407	CA20152967040	20151112
CN107208464 A	20170926	CN201580066956	20151112
CN107208464 B	20200505	CN201580066956	20151112
US10323473 BB	20190618	US20140565561	20141210
US2016168929 AA	20160616	US20140565561	20141210
WO16094022 A1	20160616	WO2015US60375	20151112

Priority:

US20140565561 20141210 WO2015US60375 20151112

Probable Assignee: NABORS IND INC

Assignee(s): (std): NABORS IND INC

Assignee(s): DJURIC MIODRAG ; MAGNUSON CHRISTOPHER ; RADOVANOVIC PEDRAG ; 那伯斯工业公司

Inventor(s): (std): DJURIC MIODRAG ; MAGNUSON CHRISTOPHER ; RADOVANOVIC PEDRAG

Inventor(s): 佩德拉格·拉多万诺维奇；佩德拉格·拉多万诺维奇；克里斯多佛·马格努森；克里斯多佛·马格努森；米奥德拉格·久里奇；米奥德拉格·久里奇

Agent(s): GOWLING WLG CANADA LLP; HAYNES AND BOONE LLP; JOHNSON DUSTIN ET AL; 中原信达知识产权代理有限公司 11219; 梁晓广; 车文

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

14) Family number: 69658991 (US2018128056 AA)

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Title: SIDE-SADDLE CANTILEVER MAST

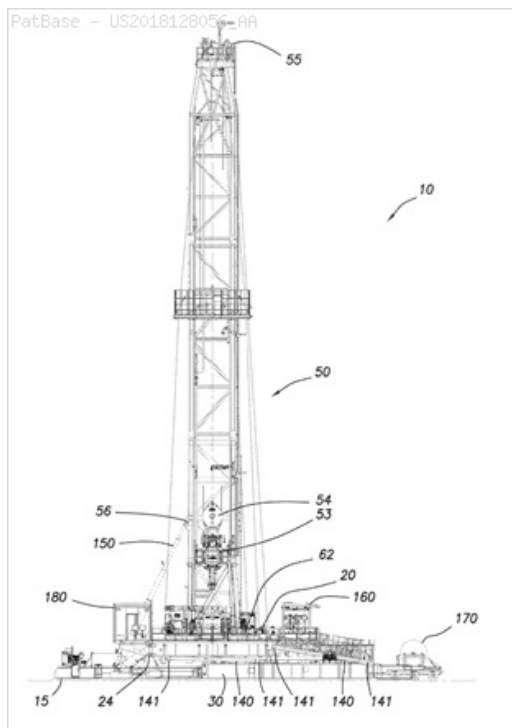
Abstract: A side saddle slingshot drilling rig includes a right substructure and a left substructure, the substructures positioned generally parallel and spaced apart from each other. The right substructure includes a right lower box and a first strut, the first strut pivotably coupled to the drill rig floor and pivotably coupled to the right lower box. The left substructure includes a left lower box and a second strut, the second strut pivotably coupled to the drill rig floor and pivotably coupled to the left lower box. The side saddle slingshot drilling rig also includes a drill rig floor, the drill rig floor including a V-door. The side of the drill rig floor has the V-door defining the V-door side of the drill rig floor, the V-door side of the drill rig floor parallel to the right substructure. The side saddle slingshot drilling rig further includes a mast, the mast including an open side defining a mast V-door side. The open side is oriented to face perpendicular to the right substructure. The mast is pivotably coupled to the drill rig floor by one or more mast pivot points and one or more lower mast attachment points, the mast being pivotable in a direction parallel to the V-door side of the drill rig floor or the mast being pivotable in a direction perpendicular to V-door side of the drill rig floor. The mast includes two or more subunits, wherein the two or more subunits are pinned together.

Classifications:

International (IPC 8-9): E04B1/343 E04H12/00 E04H12/34 E21B15/00 E21B19/08 E21B7/02

CPC: E04H12/34 E04H12/345 E21B15/00 E21B15/006 E21B19/08

US: 1/1 52/116



Family:

Publication number	Publication date	Application number	Application date
CA3039669 AA	20190405	CA20173039669	20171107
CN109804122 A	20190524	CN201780062091	20171107
CO20190004784 A2	20190521	CO20190004784	20190510
NO20190682 A	20190528	NO20190000682	20190528
US10704337 BB	20200707	US20170806088	20171107
US2018128056 AA	20180510	US20170806088	20171107
US2020284100 AA	20200910	US20200884239	20200527
WO18085850 A1	20180511	WO2017US60429	20171107

Priority:

US20160418656P 20161107 WO2017US60429 20171107 US20170806088 20171107
US20200884239 20200527

Probable Assignee: NABORS DRILLING TECH USA INC

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

Assignee(s): GUPTA ASHISH ; HAUSE RYAN ; NABORS DRILLING TECHNOLOGIES USA INC ; REDDY PADIRA ; 内博斯
钻井技术美国公司

Inventor(s): (std): GUPTA ASHISH ; HAUSE RYAN ; REDDY PADIRA

Inventor(s): A 古普塔 ; A·古普塔 ; P 莱迪 ; P·莱迪 ; R 海斯 ; R·海斯

Agent(s): LOCKLAR ADOLPH; LOCKLAR MICHAEL; SMART AND BIGGAR; 北京坤瑞律师事务所 11494; 封新琴

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
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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

15) Family number: 43306763 (US2009136326 AA)

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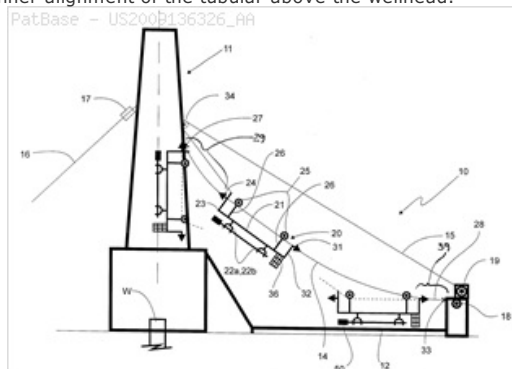
Title: TUBULAR HANDLING SYSTEM FOR DRILLING RIGS

Abstract: A cableway transport system for moving tubulars between a supply of tubulars and a rig mast implements a gondola suspended and movable along load cables. The gondola is fit with grippers for carrying tubulars between the rack and mast. The gondola has a first landing coupler which is received and releasably couples to a second landing coupler on the mast for forming a landing connection. The landing connection enables rotation of the gondola to align the carried tubular with the wellhead. The grippers can be individually actuatable to allow finer alignment of the tubular above the wellhead.

Classifications:

International (IPC 8-9): B66C21/00 B66C21/08 E21B19/00
E21B19/15 E21B19/16 E21B19/20 E21B19/24 F16L1/06 F16L55/00
CPC: E21B19/155

US: 104/112 175/85 175/85S 212/122 212/72 212/98 414/22.52
414/22.54 414/22.540P 414/605 414/782 414/800 414/800S



Family:

Publication number	Publication date	Application number	Application date
CA2645232 AA	20090526	CA20082645232	20081126
CA2645232 C	20140506	CA20082645232	20081126
US2009136326 AA	20090528	US20080324790	20081126
US8192127 BB	20120605	US20080324790	20081126

Priority:

US20070990087P 20071126 US20080324790 20081126

Probable Assignee: ANGMAN PER

Assignee(s): (std): ANGMAN PER

Inventor(s): (std): ANGMAN PER

Agent(s): GOODWIN MCKAY; PARLEE MCLAWS LLP; SEAN W; SEAN W GOODWIN

16) Family number: 57723909 (US2016060893 AA)

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Title: MODULAR DRILLING RIG SYSTEM AND METHOD FOR ASSEMBLING THE SAME

Abstract: The invention relates to a modular drilling rig system comprising multiple components, which system is transfigurible between a transport mode and an operational mode, and comprises: a. a drilling rig mast which is positionable in a vertical orientation; b. a base structure adapted to be positioned on a surface near the well centre to support the drilling rig mast thereon, wherein the base structure comprises two elongated members that are connected to each other by a cross beam; c. a displacement system to displace the drilling rig with respect to the surface in a horizontal direction; wherein the displacement system is configured to displace the two elongated members of the base structure together in order to displace the drilling rig, and is configured such that the two elongated members can be displaced with respect to each other when the two elongated members are not connected to each other.

Classifications:

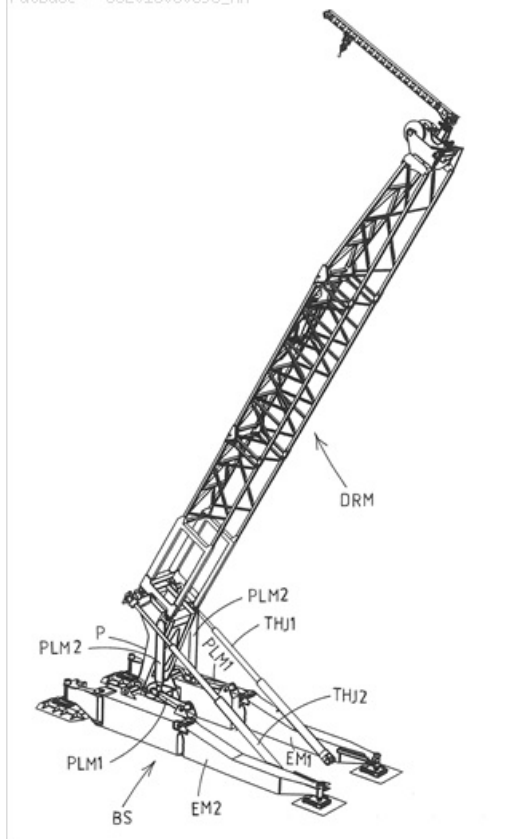
International (IPC 8-9): E04H12/18 E04H12/34 E21B15/00 E21B7/02

International (IPC 1-7): E21B15/00 E21B7/02

CPC: E04H12/187 E04H12/345 E21B15/00 E21B15/003 E21B7/02

US: 1/1 52/123.1 52/745.18

PatBase - US2016060893_AA

**Family:**

Publication number	Publication date	Application number	Application date
AU2014260512 AA	20151105	AU20140260512	20140425
AU2014260512 BB	20180208	AU20140260512	20140425
BR112015027228 A2	20170725	BR20151127228	20140425
BR112015027228 A8	20191224	BR20151127228	20140425
DE602014039531 D1	20190214	DE201460039531T	20140425
EP2992160 A1	20160309	EP20140722791	20140425
EP2992160 B1	20190109	EP20140722791	20140425
NL2010755 C	20141104	NL20132010755	20130503
NL2010755 C2	20141104	NL20132010755	20130503
US2016060893 AA	20160303	US20140786494	20140425
US9951539 BB	20180424	US20140786494	20140425
US2018230709 AA	20180816	US20180943007	20180402
WO14178712 A1	20141106	WO2014NL50269	20140425

Priority:

NL20131040189 20130429

NL20132010755 20130503

WO2014NL50269 20140425

Probable Assignee: ITREC BV**Assignee(s):** (std): ITREC BV**Inventor(s):** (std): DIEDERICK BERNARDUS WIJNING ; JOOP ROODENBURG ; ROODENBURG JOOP ; WIJNING DIEDERICK BERNARDUS**Agent(s):** BIRCH STEWART KOLASCH AND BIRCH LLP; EP AND C; FISHER ADAMS KELLY CALLINANS; FISHER ADAMS KELLY PTY LTD; KRAUS AND WEISERT PATENTANWAELTE PARTGMBB; SPRUSON AND FERGUSON; VELDEN M VAN D**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**17) Family number: 73427570** (US2019071828 AA)

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Title: LOCAL ELECTRICAL ROOM MODULE FOR WELL CONSTRUCTION APPARATUS**Abstract:** An apparatus having a skid, a boom having a first end attached to the skid and pivotable around an axis proximate the first end such that a second end of the boom raises and lowers relative to the skid, and a room mounted on the skid. The apparatus may further include a raisable apparatus supported by the second end of the boom and having one or more plug panels configured to connect to one or more first cables. The apparatus may also include second cables routed from the raisable apparatus and attached to and supported at least in part by the boom, wherein the second cables may be configured to provide electrical power to the raisable apparatus.**Classifications:****International (IPC 8-9):** E02B17/00 E02B17/02 E21B15/00

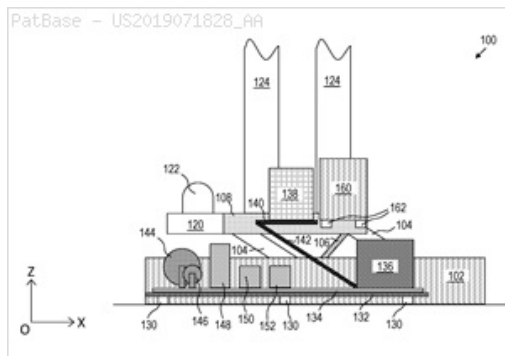
E21B17/02 E21B19/087 E21B19/15 E21B41/00 E21B44/10

E21B47/12 E21B7/02 F16L1/06 H02B1/015 H02G1/00

CPC: E02B17/00 E21B15/003 E21B44/10 E21B47/12 E21B7/02

E21B7/023 E02B17/02 E21B19/087 E21B19/155 F16L1/065

H02G1/00 E21B17/02 E21B15/00 H02B1/52

US: 1/1**Family:**

Publication number	Publication date	Application number	Application date
US10472953 BB	20191112	US20170697067	20170906
US2019071966 AA	20190307	US20170697067	20170906
US10662709 BB	20200526	US20170697093	20170906
US2019071929 AA	20190307	US20170697093	20170906
US10655292 BB	20200519	US20170697110	20170906
US2019071828 AA	20190307	US20170697110	20170906
WO19050891 A2	20190314	WO2018US49464	20180905
WO19050891 A3	20190425	WO2018US49464	20180905

Priority:

US20170697067 20170906 US20170697110 20170906 US20170697093 20170906

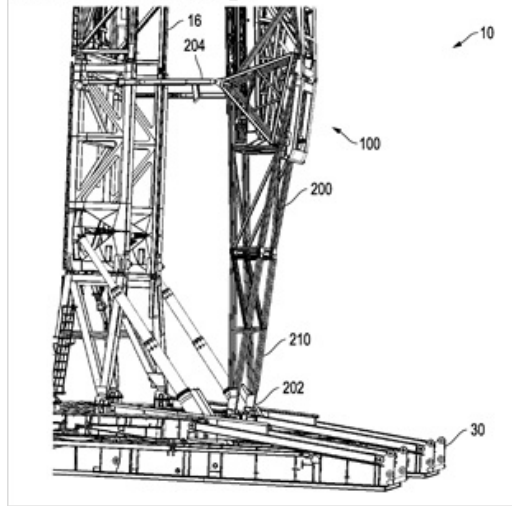
Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP**Assignee(s):** (std): SCHLUMBERGER CA LTD ; SCHLUMBERGER TECHNOLOGY BV ; SCHLUMBERGER TECHNOLOGY CORP ; SERVICES PETROLIERS SCHLUMBERGER**Assignee(s):** SCHLUMBERGER CANADA LTD**Inventor(s):** (std): ORBAN JACQUES**Agent(s):** GREENE RACHEL E; GREENE RACHEL E ET AL**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**18) Family number: 57413140** (US2015300104 AA)

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Title: SYSTEM AND METHOD FOR RAISING AND LOWERING A DRILL FLOOR MOUNTABLE AUTOMATED PIPE RACKING SYSTEM**Abstract:** The present invention relates to a new apparatus and method for use in subterranean exploration. The present invention provides a rapid rig-up and rig-down of a drill floor mounted device such as a pipe racking system. In particular, the present invention discloses a system and method for rapid deployment of a drill floor mounted pipe racking system that is capable of being retrofit to an existing drilling rig.**Classifications:****International (IPC 8-9):** E21B15/00 E21B19/02 E21B19/14

E21B19/15 E21B19/16

CPC: E21B15/00 E21B19/14 E21B19/155 E21B19/16**US:** 1/1 29/428 414/22.56

**Family:**

Publication number	Publication date	Application number	Application date
CA2935843 AA	20160704	CA20142935843	20140314
CA2935843 C	20170509	CA20142935843	20140314
US2015300104 AA	20151022	US20130843998	20130315
US9476267 BB	20161025	US20130843998	20130315
WO14144995 A1	20140918	WO2014US29629	20140314

Priority:

US20130843998 20130315 WO2014US29629 20140314

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP**Assignee(s):** (std): ORGERON KEITH J ; T AND T ENG SERVICES INC ; T AND T ENGINEERING SERVICES INC ; TREVITHICK MARK W**Assignee(s):** SCHLUMBERGER CANADA LTD ; SCHLUMBERGER TECHNOLOGY CORP**Inventor(s):** (std): ORGERON KEITH J ; TREVITHICK MARK W**Agent(s):** FINLAYSON AND SINGLEHURST; FISCHER JOHN G; JOHN G; SCHEEF AND STONE LLP

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

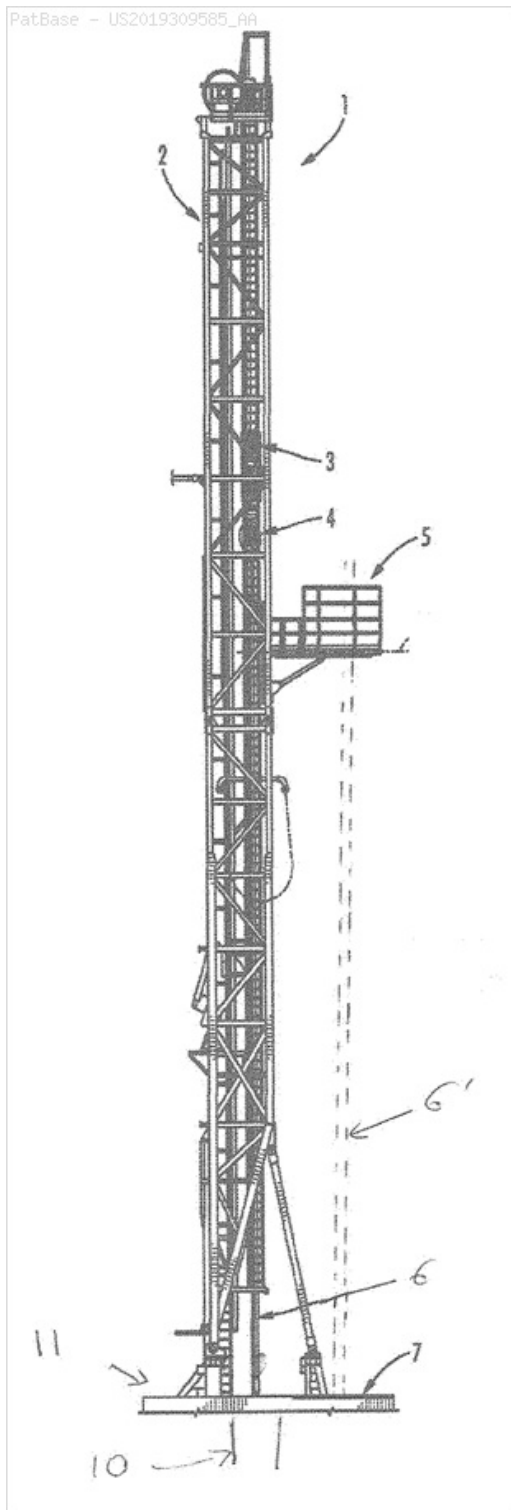
19) Family number: 76110637 (US2019309585 AA)

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Title: SYSTEM FOR HANDLING TUBULARS ON A RIG

Abstract: A system for handling tubulars on a rig may include a top handling device configured for arrangement on the rig and for handling a top portion of a tubular to and from a setback area. The system may also include a lower handling device configured for arrangement on the rig and for handling a bottom portion of the tubular between well center and a release position. The system may also include a bottom handling device configured for arrangement on the rig and for handling the bottom portion of the tubular between the release position and the setback area.

Classifications:**International (IPC 8-9):** E21B19/14 E21B19/15 E21B19/24**CPC:** E21B19/14 E21B19/155 E21B19/24

**Family:**

Publication number	Publication date	Application number	Application date
US2019309585 AA	20191010	US20190375927	20190405
WO19195651 A1	20191010	WO2019US25942	20190405

Priority:

US20180653254P 20180405 US20190375927 20190405

Probable Assignee: NAT OILWELL VARCO LP

Assignee(s): (std): MILLER TRAVIS JAMES ; NAT OILWELL VARCO LP ; SPRINGETT FRANK BENJAMIN

Assignee(s): NATIONAL OILWELL VARCO LP

Inventor(s): (std): MILLER TRAVIS JAMES ; SPRINGETT FRANK BENJAMIN

Agent(s): PERDOK MONIQUE M ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC 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

Title: COILED TUBING DRILLING RIG

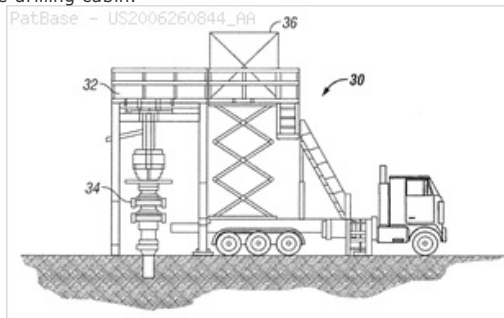
Abstract: The present invention provides a rig capable of both coiled tubing and conventional drilling. The rig comprises a mast unit having a drilling mast and a catwalk. The mast unit is adapted for rotary drilling and casing operations. The rig further comprises a drill floor unit adapted to house a drilling cabin and hold a drilling BOP stack while in transport. The rig additionally comprises a coiled tubing unit that is controllable from the drilling cabin.

Classifications:

International (IPC 8-9): E21B15/00 E21B19/00 E21B19/22

CPC: E21B15/04 E21B19/22 E21B7/027

US: 166/384 166/77.2 175/162 175/203 175/52 175/52P 175/57 175/85 175/85S

**Family:**

Publication number	Publication date	Application number	Application date
CA2547285 AA	20061119	CA20062547285	20060519
CA2547285 C	20140422	CA20062547285	20060519
US2006260844 AA	20061123	US20060419100	20060518
US7600585 BB	20091013	US20060419100	20060518

Priority:

US20050682560P 20050519
US20050682560P 20050616

US20050691301P 20050519
US20060419100 20060518

US20050691301P 20050616
CA20062547285 20060519

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): (std): PATTON BARTLEY J ; ROUSE MATTHEW D ; SCHLUMBERGER CA LTD ; SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): SCHLUMBERGER CANADA LIMITED ; SCHLUMBERGER CANADA LTD ; SCHLUMBERGER CANADA LTDEAU CLAIRE PLACE 1525 - 3RD AVENUE S.W., 7TH FLOORCALGARYA1T2P 0G4CA

Inventor(s): (std): PATTON BARTLEY J ; ROUSE MATTHEW D

Inventor(s): PATTON BARTLEY ; PATTON BARTLEY JUS ; ROUSE MATTHEW ; ROUSE MATTHEW DUS

Agent(s): DAVID; MICHAEL; ROBIN; SCHLUMBERGER TECHNOLOGY CORP; SMART AND BIGGAR

Title: PARKING SYSTEM FOR A PIPE RACKER ON A DRILLING RIG

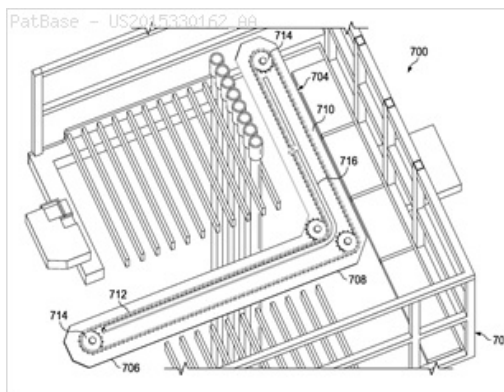
Abstract: Apparatus and methods include a parking system for a drilling rig. The parking system includes a first track portion extending along a pathway between a well center and a V-door on a drilling rig and a second track portion extending in a transverse direction relative to the first track portion. A trolley is configured to carry a racking device and move along at least a portion of the first track portion and the second track portion between a position in the pathway between well center and the V-door on a drilling rig and a position offline and out of the pathway between well center and the V-door on a drilling rig.

Classifications:

International (IPC 8-9): E21B15/00 E21B19/08 E21B19/14

CPC: E21B19/14 Y10T29/49842 E21B15/00 E21B19/08

US: 29/434 414/22.68 1/1

**Family:**

Publication number	Publication date	Application number	Application date
CA2944608 AA	20160930	CA20152944608	20150320
CA2944608 C	20180828	CA20152944608	20150320
CN106460476 A	20170222	CN201580025298	20150320
CN106460476 B	20190528	CN201580025298	20150320
GB2540109 A1	20170104	GB20160019248	20150320
KR101856150 B1	20180510	KR20167035410	20150320
KR20170004008 A	20170110	KR20167035410	20150320
MX2016015013 A1	20170331	MX20160015013	20150320
NO20161975 A	20161213	NO20160001975	20161213
SG11201609291S A1	20161229	SG20161109291	20150320
US2015330162 AA	20151119	US20140279986	20140516
US9926753 BB	20180327	US20140279986	20140516

Priority:

US20140279986 20140516 WO2015US21799 20150320

Probable Assignee: NABORS IND INC

Assignee(s): (std): NABORS IND INC

Assignee(s): BROWN MARVIN ; DEUTSCH ERIC ; DJURIC MIODRAG ; MAGNUSON CHRISTOPHER ; RADOVANOVIC PREDRAG ; 那伯斯工业公司 ; 네이비스 인터스트리즈 인코퍼레이티드

Inventor(s): (std): BROWN MARVIN ; CHRISTOPHER MAGNUSON ; DEUTSCH ERIC ; DJURIC MIODRAG ; ERIC DEUTSCH ; MAGNUSON CHRISTOPHER ; MARVIN BROWN ; MIODRAG DJURIC ; PREDRAG RADOVANOVIC ; RADOVANOVIC PREDRAG

Inventor(s): 크리스토퍼 마그놀森 ; 크리스토퍼·마그놀森 ; 普雷德拉格 拉多万诺维奇 ; 普雷德拉格·拉多万诺维奇 ; 米奥德拉格 久里奇 ; 米奥德拉格·久里奇 ; 艾瑞克 多伊奇 ; 艾瑞克·多伊奇 ; 马文 布朗 ; 马文·布朗 ; 도이지 에릭 ; 라도바노빅 프레드라그 ; 맥너슨 크리스토퍼 ; 브라운 마빈 ; 주리치 미오드라그

Agent(s): GOWLING WLG CANADA LLP; HAYNES AND BOONE LLP; JOHNSON DUSTIN ET AL; 中原信达知识产权代理有限公司 11219; 关兆辉; 梁晓广; 특허법인 남앤드남

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

22) Family number: 69658521 (US2018126563 AA)

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Title: MODULAR GRIPPERHEAD WITH EFFECTOR FOR A RACKER SYSTEM

Abstract: The systems, devices, and methods described herein relate to a modular gripperhead system for a drilling rig. The system includes a gripper having a first gripper arm and a second opposing gripper arm, each gripper arm having an inwardly facing gripping surface that forms at least a portion of a chamber sized to receive a portion of a cylindrical tubular, wherein the portion of the chamber has a longitudinal axis. The system also includes a grabber having a first grabber arm and a second grabber arm. Each grabber arm may be displaceable between a retracted position and an extended position in a direction along a first axis that is transverse to the longitudinal axis. The first and second grabber arms may be pivotable about a first and second pivot point between an open position sized to permit a portion of a cylindrical tubular to enter between the first and the second grabber arms and a closed position sized to secure a portion of a cylindrical tubular between the first and the second grabber arms.

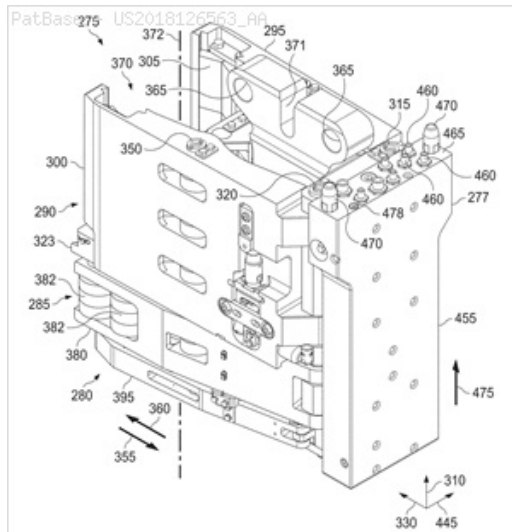
Classifications:

International (IPC 8-9): B25J15/00 E21B19/06 E21B19/14

E21B19/16

CPC: E21B19/06 E21B19/14 E21B19/161 E21B19/168

US: 1/1 414/22.51



Family:

Publication number	Publication date	Application number	Application date
CA2984684 AA	20180507	CA20172984684	20171103
CA2984684 C	20200310	CA20172984684	20171103
US10435964 BB	20191008	US20170790458	20171023
US2018126563 AA	20180510	US20170790458	20171023

Priority:

US20160418488P 20161107 US20170790458 20171023

Probable Assignee: NABORS DRILLING TECHNOLOGIES USA INC

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

Assignee(s): DEEL STEVEN K ; MAGNUSON CHRISTOPHER ; MIODRAG DJURIC ; NABORS DRILLING TECHNOLOGIES USA INC ; RADOVANOVIC PREDRAG

Inventor(s): (std): DEEL STEVEN K ; MAGNUSON CHRISTOPHER ; MIODRAG DJURIC ; RADOVANOVIC PREDRAG

Agent(s): GOWLING WLG CANADA LLP; HAYNES AND BOONE LLP

23) Family number: 2953177 (US4823870 A)

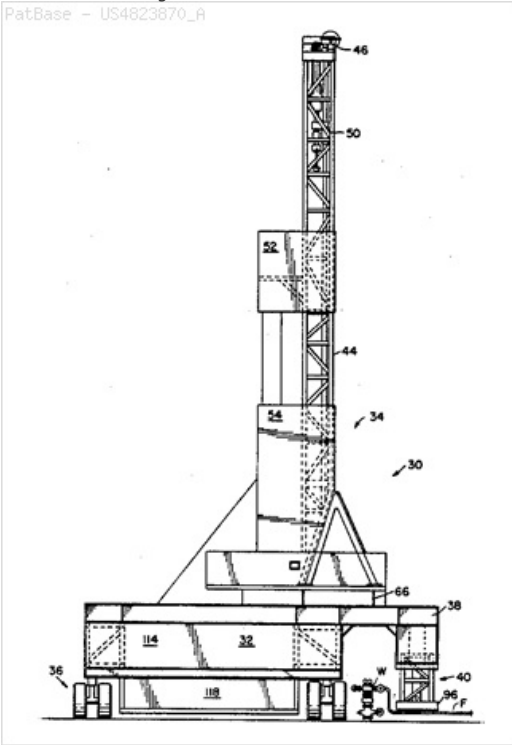
© PatBase

Title: Cantilever drilling structure

Abstract: A cantilevered drilling structure including a base unit having a side positionable generally adjacent a well head, and a drilling rig mast assembly positioned generally above and supported by the base unit. The base unit has a cantilever

member extending out from its side, spaced from the ground, and having an outer portion spaced from the side. A telescoping leg extends down from the outer portion and is spaced from the side such that the side and the leg are positionable on opposite sides of a well head. The telescoping leg is movable between a lower support position and a higher raised position high enough to pass over flow lines when the drilling structure is moved along the well row. A skidding floor mechanism moves the drilling rig mast assembly along the base unit between a drilling position over the cantilever member when the telescoping leg has been extended and a moving position closer to the center of gravity of the base unit. When the drilling rig mast assembly is in its moving position and the telescoping leg in its higher raised position, the drilling structure can be rolled on a wheel assembly to a new location, for example, between two existing wells.

Classifications:
International (IPC 8-9): E21B15/00
International (IPC 1-7): E21B15/00 E21B7/00 E21B7/02 E21B9/00
CPC: E21B15/003
US: 166/79 166/79.1 175/202 175/85 405/201 52/117



Family:

Publication number	Publication date	Application number	Application date
GB2161523 A1	19860115	GB19850017241	19850708
GB8517241 A0	19850814	GB19850017241	19850708
JP61053990 A2	19860318	JP19850149397	19850709
KR19860001274 A	19860224	KR19850004922	19850709
US4823870 A	19890425	US19880227492	19880801

Priority:
US19840629100 19840709 US19870022610 19870303 US19880227492 19880801

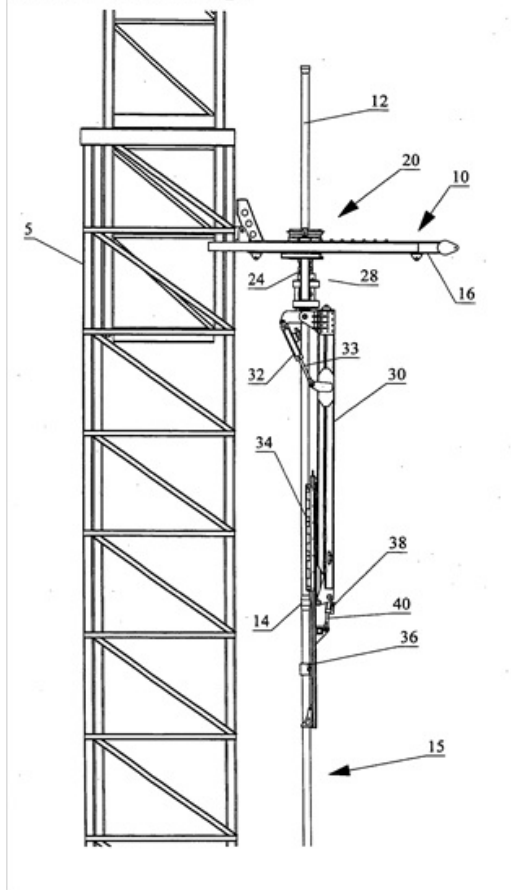
Probable Assignee: SOROKAN R S
Assignee(s): (std): RONARUDO ESU SOROKAN ; SOROKAN R S ; SOROKAN RONALD S ; SOROKAN RONALD STANLEY
Assignee(s): RONALD STANLEY SOROKAN ; 로날드 에스 소로칸
Inventor(s): (std): RONARUDO ESU SOROKAN ; SOROKAN RONALD S ; SOROKAN RONALD STANLEY
Inventor(s): RONALD STANLEY SOROKAN ; 로날드·이스. 소로칸 ; 로날드 에스 소로칸
Agent(s): 고광하; 백덕열

24) Family number: 33036331 (US2006113073 AA) © PatBase

Title: APPARATUS FOR HANDLING AND RACKING PIPES

Abstract: An apparatus for handling pipes in a derrick and racking the pipes on a pipe racking assembly mounted on the derrick is provided to improve the stability of transferring pipes during a round trip operation. The apparatus includes a rotatable gate assembly mounted on the pipe racking assembly. The rotatable gate assembly includes a collar rotatably mounted to a first end of a shaft and an arm pivotably and rotatably mounted on a second end of the shaft. The collar defines a gate for securing an upper portion of the pipe stand. A first securing means mounted to a second end of the arm secures the mid-portion of the pipe stand and a second securing means mounted to the first securing means secures the lower portion of the pipe stand. After the arm secures the pipe stand from the derrick, a drive mechanism mounted to the shaft rotates the rotatable gate assembly such that the arm may rack the pipe on the pipe racking assembly.

Classifications:
International (IPC 8-9): A01G23/00 A01G23/02 B25J15/00
E21B19/00 E21B19/06 E21B19/14 E21B19/15 E21B19/16 E21B19/18
E21B19/20
CPC: E21B19/20 E21B15/00 E21B19/14 E21B19/155 Y10S414/13
US: 166/377 166/379 166/380 166/77.51 166/77.52 166/77.520S
175/52 175/52S 175/85 175/85S 414/22.54 414/22.540P 414/22.55
414/22.62 414/22.63 414/22.65 414/22.650P 414/22.68 414/23
414/746.3 414/917 52/121 52/632

**Family:**

Publication number	Publication date	Application number	Application date
CA2640111 AA	20090715	CA20082640111	20081001
CA2640111 C	20131126	CA20082640111	20081001
US2006113073 AA	20060601	US20040997930	20041129
US7331746 BB	20080219	US20040997930	20041129
US2007193750 AA	20070823	US20070785446	20070418
US7794192 BB	20100914	US20070785446	20070418
US2009185883 AA	20090723	US20080285305	20081001
US7967540 BB	20110628	US20080285305	20081001
US2009257848 AA	20091015	US20090385282	20090403
US7967541 BB	20110628	US20090385282	20090403

Priority:

US20040997930 20041129 US20070785446 20070418 US20080006460P 20080115
CA20082640111 20081001 US20080285305 20081001 US20090385282 20090403

Probable Assignee: WEATHERFORD CANADA LTD

Assignee(s): (std): ASSAF IMAD ; BANISTER ANDREW S ; HU GEORGE GUO QIANG ; IRON DERRICKMAN LTD ; JANTZEN LEON KEITH ; RICHARD DAVID L ; RICHARD DAVID LOUIS ; STROSHEIN WILLIAM J ; STROSHEIN WILLIAM JOHN ; WEATHERFORD CANADA PARTNERSHIP ; WRIGHT MONTE N ; WRIGHT MONTE NEIL

Assignee(s): DEUTSCHE BANK TRUST CO AMERICAS ADMINISTRATIVE AGENT AS ; HU GEORGE ; WEATHERFORD CANADA LTD ; WELLS FARGO BANK NATIONAL ASSOCIATION AGENT AS

Inventor(s): (std): ASSAF IMAD ; BANISTER ANDREW S ; BANISTER ANDREW SCOTT ; HU GEORGE ; HU GEORGE GUO QIANG ; JANTZEN LEON KEITH ; RICHARD DAVID L ; RICHARD DAVID LOUIS ; STROSHEIN WILLIAM J ; STROSHEIN WILLIAM JOHN ; WRIGHT MONTE N ; WRIGHT MONTE NEIL

Inventor(s): BANISTER ANDREW ; RICHARD DAVID ; STROSHEIN WILLIAM ; WRIGHT MONTE

Agent(s): ANTHONY C ; ANTONY C ; ANTONY C EDWARDS ; EDWARDS ANTHONY C ; GOODWIN MCKAY ; PARLEE MCLAWS LLP

25) Family number: 67494737 (US2019145197 AA)

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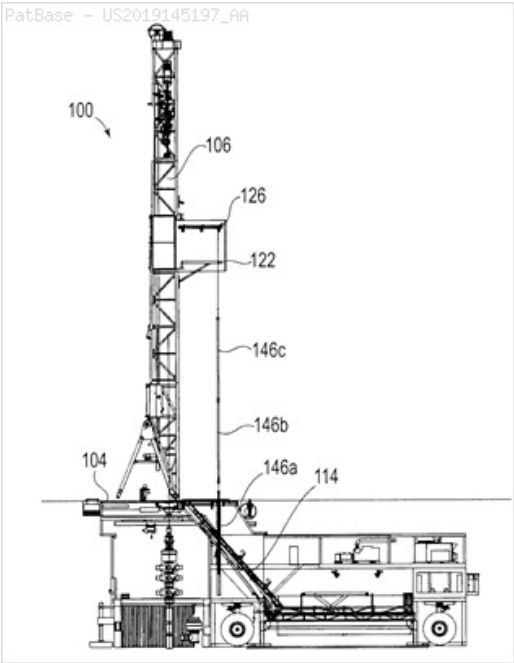
Title: SYSTEM AND METHOD FOR OFFLINE STANDBUILDING

Abstract: A drill rig having a drill pipe standbuilding system. The standbuilding system may have one or more offline mouseholes, such as two offline mouseholes, a hoist arranged on a rail system, and an iron roughneck. The rail system may be arranged on the mast, such as above a racking board. The hoist may extend from the rail system, through the racking board, and toward a drill floor of the drill rig. The offline mouseholes, rail system, hoist, and iron roughneck may allow drill pipe stands to be built without interrupting or slowing drilling operations. A method of standbuilding may include arranging a first pipe section in a first mousehole, arranging a second pipe section in a second mousehole, coupling a third pipe section to the second pipe section to form a double stand, and coupling the second pipe section to the first pipe section to form a triple stand.

Classifications:

International (IPC 8-9): E21B19/00 E21B19/06 E21B19/14
E21B19/16 E21B19/20

CPC: E21B19/00 E21B19/06 E21B19/14 E21B19/16 E21B19/161
E21B19/20
US: 166/77.52



Family:

Publication number	Publication date	Application number	Application date
CA3022888 AA	20181101	CA20173022888	20170512
US2019145197 AA	20190516	US20170098160	20170512
WO17193204 A1	20171116	WO2017CA00125	20170512

Priority:

US20160335282P 20160512 WO2017CA00125 20170512 US20170098160 20170512

Probable Assignee: DRECO ENERGY SERVICES ULC

Assignee(s): (std): DRECO ENERGY SERVICES ULC

Assignee(s): CALLAGHAN JONATHAN DOUGLAS

Inventor(s): (std): CALLAGHAN JONATHAN DOUGLAS

Agent(s): RICHES MCKENZIE AND HERBERT LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT 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

26) Family number: 73499751 (US2019078400 AA)

© PatBase

Title: SYSTEMS, DEVICES, AND METHODS TO DETECT PIPE WITH A GRIPPERHEAD

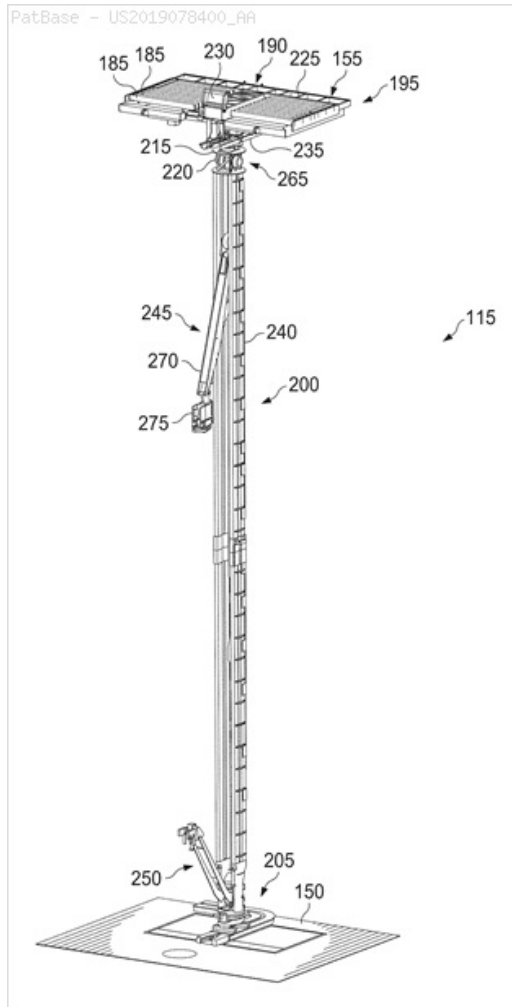
Abstract: The systems, devices, and methods described herein relate to tubular detection on a gripperhead system for a drilling rig. The gripperhead system includes a grabber and a gripper each having first and second grabber arm and pistons connected to the first and second arms. Each arm may also include an inwardly facing gripping surface forming at least a portion of a chamber sized to receive a portion of a cylindrical tubular. One or more sensors may be disposed on the gripperhead system, including proximity sensors disposed on the arms, inductive sensors disposed within the pistons, and ultrasonic sensors disposed on other features of gripperhead system. The one or more sensors may be configured to determine the position of the tubular in relation to the arms, measure the size of the tubular, measure the compression force of the grabber, and ensure that the tubular is secured within the grabber.

Classifications:

International (IPC 8-9): E21B19/06 E21B19/14 E21B41/00

CPC: E21B19/06 E21B19/14 E21B19/15 E21B41/00

US: 1/1



Family:

Publication number	Publication date	Application number	Application date
US2019078400 AA	20190314	US20180116199	20180829

Priority:

US20170556802P 20170911 US20180116199 20180829

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): MAGNUSON CHRISTOPHER ; SIMANJUNTAK GODWIN

27) Family number: 73176347 (US2019051431 AA)

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Title: ELECTRICAL POWER TRANSMISSION FOR WELL CONSTRUCTION APPARATUS

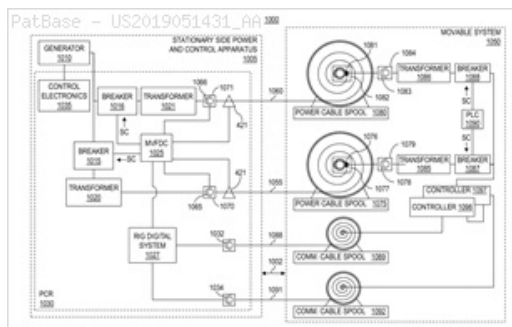
Abstract: The present disclosure introduces apparatus and related methods pertaining to a first electrical power cable, a second electrical power cable, and a set of breakers. The first and second electrical power cables each extend a variable distance between a static system at a wellsite and a movable system at the wellsite. The breakers are operable to select either of the first and second electrical power cables to couple electrical power from a stationary electrical power source at the static system to a load at the movable system.

Classifications:

International (IPC 8-9): E21B4/04 E21B4/18 E21B41/00 E21B7/06 H01B9/00 H02G11/02 H02G9/04

CPC: B65H2701/34 E21B4/04 E21B4/18 E21B41/0085 E21B7/068 H01B9/003 H02G11/02 H02G9/04

US: 1/1 174/115



Family:

Publication number	Publication date	Application number	Application date
US10699822 BB	20200630	US20170675831	20170814
US2019051431 AA	20190214	US20170675831	20170814

Priority:

US20170675831 20170814

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP**Assignee(s):** (std): SCHLUMBERGER TECHNOLOGY CORP**Inventor(s):** (std): BERRY JOE RODNEY ; HOPE JOSEPH ; ORBAN JACQUES**Agent(s):** GREENE RACHEL E**28) Family number: 44403162** (US2010038088 AA)

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Title: MULTI-FUNCTION MULTI-HOLE DRILLING RIG

Abstract: A multi-function multi-hole rig is disclosed which, in certain aspects, includes multiple machines for accomplishing rig functions, e.g. drilling machine(s), tripping machine(s), casing machine(s), and/or cementing machine(s), for producing multiple usable wellbores one after the other. This abstract is provided to comply with the rules requiring an abstract which will allow a searcher or other reader to quickly ascertain the subject matter of the technical disclosure and is submitted with the understanding that it will not be used to interpret or limit the scope or meaning of the claims, 37 C.F.R. 1.72(b).

Classifications:

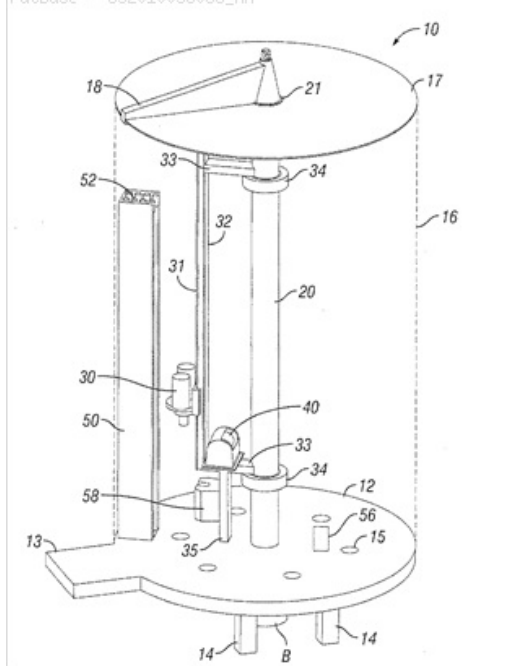
International (IPC 8-9): E21B15/00 E21B19/00 E21B19/14
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E21B7/00

International (IPC 1-7): E21B15/00

CPC: E21B15/003 E21B19/14

US: 166/245 166/313 166/52 166/52S 175/57 175/57S

PatBase - US2010038088_AA

**Family:**

Publication number	Publication date	Application number	Application date
BRPI0917536 A2	20191015	BR2009PI17536	20090814
CA2731107 AA	20100218	CA20092731107	20090814
CA2731107 C	20160913	CA20092731107	20090814
CA2783675 AA	20110616	CA20102783675	20101203
CA2783675 C	20141118	CA20102783675	20101203
CN102137982 A	20110727	CN200980131645	20090814
CN102137982 B	20140122	CN200980131645	20090814
DE602009038448 D1	20160623	DE200960038448T	20090814
EP2324186 A1	20110525	EP20090791527	20090814
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EP2510181 A2	20121017	EP20100798866	20101203
RU2011109458 A	20120920	RU20110109458	20090814
RU2507366 C2	20140220	RU20110109458	20090814
US2010038088 AA	20100218	US20080316801	20081215
US8181697 BB	20120522	US20080316801	20081215
US2010147524 AA	20100617	US20090634930	20091210
US8181698 BB	20120522	US20090634930	20091210
US2012217006 AA	20120830	US20120444610	20120411
WO10019858 A1	20100218	WO2009US53849	20090814
WO11071757 A2	20110616	WO2010US58835	20101203
WO11071757 A3	20120405	WO2010US58835	20101203

Priority:

US20080189146P 20080815

EP20090791527 20090814

US20120444610 20120411

US20080316801 20081215

US20090634930 20091210

WO2009US53849 20090814

WO2010US58835 20101203

Probable Assignee: NATIONAL OILWELL VARCO LP

Assignee(s): (std): BENNETT DEAN ; BENNETT DEAN A ; MCCLUNG GUY L ; MCCLUNG III GUY L ; NAT OILWELL VARCO LP ; NATIONAL OILWELL VARCO INC ; NEHSHNL OJLVELL VARKO EHL PI ; REID DAVID ; REID DAVID GILBERT ; SPRINGETT FRANK BENJAMIN

Assignee(s): MCCLUNG GUY L III ; NATIONAL OILWELL VARCO L P ; NATIONAL OILWELL VARCO LP HOUSTON ; NATIONAL OILWELL VARCO LP7909 PARKWOOD CIRCLE DRIVEHOUSTONTX77036US ; НЭШНЛ ОЙЛВЕЛЛ ВАРКО ЭЛ.ПИ. ; НЭШНЛ ОЙЛВЕЛЛ ВАРКО Эл.Пи. (US) ; 国民油井华高有限合伙公司

Inventor(s): (std): BENJAMIN SPRINGETT FRANK ; BENNETT DEAN ; BENNETT DEAN A ; DAVID REID ; FRANK BENJAMIN

SPRINGETT ; GUY L MCCLUNG III ; MAKKLANG GAJ L ; MCCLUNG GUY L ; MCCLUNG GUY L III ; MCCLUNG III GUY L ; REID DAVID ; REID DAVID GILBERT ; REJD DEVID ; SPRINDZHETT FRANK BENDZHAMIN ; SPRINGETT FRANK BENJAMIN

Inventor(s):

BENNETT DEAN AUS ; D·里德 ; F·B·斯普林格特 ; G·L·麦克朗 ; REID DAVID GILBERTUS ; SPRINGETT FRANK BENJAMINUS ; МАККЛАНГ ГАЙ Л. ; МАККЛАНГ Гай Л. (US) ; РЕЙД ДЭВИД ; РЕЙД Дэвид (US) ; СПРИНДЖЕТТ ФРАНК БЕНДЖАМИН ; СПРИНДЖЕТТ Франк Бенджамин (US)

Agent(s):

AMERSON MIKE J; BAILEY RICHARD ALAN; KIRBY EADES GALE BAKER; NATIONAL OILWELL VARCO; OXLEY ROBIN JOHN GEORGE; WILLIAMS MORGAN AND AMERSON PC; 中国国际贸易促进委员会专利商标事务所 11038; 王会卿

Designated states:

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

29) Family number: 40747805 (US2007246264 AA)

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Title: WORM AND COLLAR DRIVE DRILL RIG

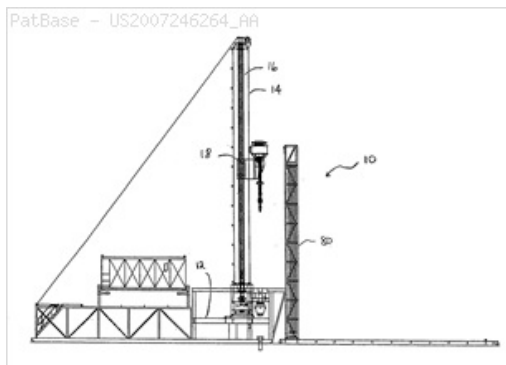
Abstract: A drilling or service rig includes a worm drive disposed within and rotatably supported within a mast having one open side. The worm drive defines a helical groove, and a collar is disposed on the worm drive and engages the helical groove. Rotation of the worm drive causes movement of the collar upwards or downwards along the worm drive. The collar may support a block and top drive assembly.

Classifications:

International (IPC 8-9): E21B19/00 E21B19/08 E21B3/00 E21B3/02

CPC: E21B19/081

US: 175/122 175/162 175/203 175/162P 175/203S



Family:

Publication number	Publication date	Application number	Application date
CA2585979 AA	20071024	CA20072585979	20070424
CA2585979 C	20131022	CA20072585979	20070424
US2007246264 AA	20071025	US20070739500	20070424
US7699125 BB	20100420	US20070739500	20070424

Priority:

US20060745471P 20060424 CA20072585979 20070424 US20070739500 20070424

Probable Assignee: VICTORY RIG EQUIPMENT CORP

Assignee(s): (std): VICTORY RIG EQUIPMENT CORP

Assignee(s): FOLK ROBERT

Inventor(s): (std): FOLK ROBERT

Agent(s): BENNETT JONES LLP; EDWARD YOO C O BENNETT JONES

30) Family number: 73176292 (US2019048666 AA)

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Title: ELECTRICAL POWER TRANSMISSION FOR WELL CONSTRUCTION APPARATUS

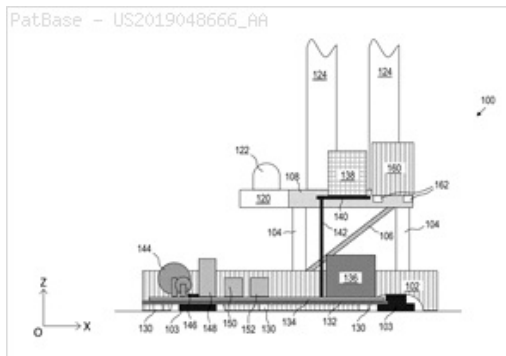
Abstract: The present disclosure introduces apparatus and related methods pertaining to a first electrical power cable, a second electrical power cable, and a set of breakers. The first and second electrical power cables each extend a variable distance between a static system at a wellsite and a movable system at the wellsite. The breakers are operable to select either of the first and second electrical power cables to couple electrical power from a stationary electrical power source at the static system to a load at the movable system.

Classifications:

International (IPC 8-9): E21B15/00 E21B17/00 E21B19/00 E21B3/02 H01H71/10 H02G11/02 H02G3/04 H02G9/04 H02J9/00 H02J9/04 H02J9/06

CPC: E21B15/00 E21B15/003 E21B17/003 E21B19/008 E21B3/02 H01H2231/048 H01H2300/018 H01H71/1045 H02G11/02 H02G3/0462 H02G9/04 H02J9/00 H02J9/04 H02J9/06

US: 1/1 307/147



Family:

Publication number	Publication date	Application number	Application date
US10745975 BB	20200818	US20170675820	20170814
US2019048666 AA	20190214	US20170675820	20170814

Priority:

US20170675820 20170814

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): (std): SCHLUMBERGER TECHNOLOGY CORP

Inventor(s): (std): BERRY JOE RODNEY ; HOPE JOSEPH ; ORBAN JACQUES

Agent(s): GREENE RACHEL E

31) Family number: 33511134 (US2006231267 AA)

© PatBase

Title: APPARATUS AND METHOD FOR PERFORMING EARTH BOREHOLE OPERATIONS

Abstract: An apparatus for performing earth borehole operations comprising a base or substructure, a mast mounted on the base, a top drive mounted on the mast for longitudinal movement therealong, the top drive having an opening therethrough and a coiled tubing injector mounted on the mast above the top drive such that coiled tubing from the tubing injector can pass through the opening in the top drive, the apparatus being operable to selectively use the top drive to engage and manipulate a component used in borehole operations while the coiled tubing injector is substantially inoperative and selectively operable to use the coiled tubing injector to inject coiled tubing into an earth borehole while the top drive is substantially inoperative or alternatively using the coiled tubing injector to inject coiled tubing into a tubular string being manipulated by the top drive.

Classifications:

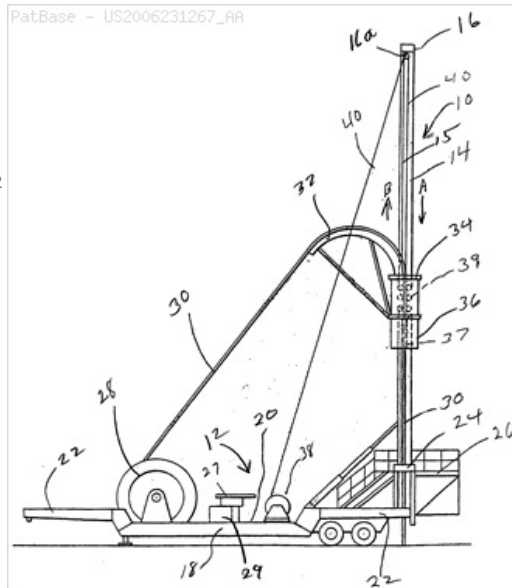
International (IPC 8-9): B65H67/00 B65H67/02 B81B7/00 B81B7/02 E21B15/00 E21B19/00 E21B19/08 E21B19/16 E21B19/18 E21B19/22 E21B7/02 F01M9/00 F01M9/08

International (IPC 1-7): B65G67/00

CPC: B65H49/38 E21B19/22 E21B7/02 E21B15/00 E21B19/14 E21B15/04

US: 166/379 166/380 166/384 166/384S 166/385 166/77.1 166/77.2 166/77.200 166/77.200P 166/77.200S 166/77.3 166/77.51 166/77.52 166/77.520S 166/77.1 166/78.1 166/78.100 166/78.100S 166/85.1 166/85.100S 166/85.5 175/162 175/203 175/220 175/90 184/11.2 242/403 242/557 242/559

PatBase - US2006231267_AA



Family:

Publication number	Publication date	Application number	Application date
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AU2006261964 BB	20110224	AU20060261964	20060622
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AU2007226221 AA	20070920	AU20070226221	20070312
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CA2533731 AA	20061217	CA20062533731	20060123
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CA2533969 AA	20061224	CA20062533969	20060125
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CA2547167 AA	20061217	CA20062547167	20060517
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CA2568659 AA	20070602	CA20062568659	20061122
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CA2624285 AA	20080328	CA20062624285	20061003
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CA2629561 C	20120313	CA20062629561	20061116
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EA200870356 A1	20090428	EA20080070356	20070312
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EP1963610 A2	20080903	EP20060838240	20061121
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US2006231267 AA	20061019	US20050149673	20050610
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US2006283605 AA	20061221	US20050155056	20050617
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US2006289170 AA	20061228	US20050165931	20050624
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US2006283587 AA	20061221	US20050300842	20051215
US7810554 BB	20101012	US20050300842	20051215
US2008251248 AA	20081016	US20060088908	20061003
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WO07067356 A2	20070614	WO2006US45153	20061121
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WO07105101 A2	20070920	WO2007IB00670	20070312
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Priority:

US20050107183	20050415	US20050149673	20050610	US20050155056	20050617
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AU20120200323	20120119	AU20120100107	20120202		

Probable Assignee: XTREME DRILLING AND COIL SERVICES CORP

Assignee(s): (std): CHARRON RANDOLPH M ; COIL TUBING TECHNOLOGIES LLC ; EHKSTRIM KOJL DRILLING KORP ; XTREME COIL DRILLING CORP ; HAVINGA RICHARD ; HAVINGA RICHARD D ; WOOD THOMAS D ; WOOD THOMAS DYER ; XTREME COIL DRILLING CORP ; XTREME DRILLING AND COIL SERVICES CORP

Assignee(s): XTREME OILFIELD TRUCKING INC ; HAVINGA RICHARD DARREL ; WELLS FARGO BANK NATIONAL

ASSOCIATION ; XTREME DRILLING AND COIL SERVICES INC ; XTREME DRILLING AND COIL SERVICES LUXEMBOURG SA ; XTREME EQUIPMENT INC ; ЭКСТРИМ КОЙЛ ДРИЛЛИНГ КОРП. ; ЭКСТРИМ КОЙЛ ДРИЛЛИНГ КОРП. (СА) ; ЭКСТРИМ КОЙЛ ДРИЛЛИНГ КОРПОРАЙШН

Inventor(s): (std): CHARRON RANDOLPH M ; DYER WOOD THOMAS ; HAVINGA RICHARD ; HAVINGA RICHARD D ; HAVINGA RICHARD DARREL ; KHAVINGA RICHARD D ; RICHARD D HAVINGA ; THOMAS D WOOD ; WOOD THOMAS D ; WOOD THOMAS DYER

Inventor(s): CHARRON RANDOLPH ; THOMAS DYER WOOD ; WOOD THOMAS ; ВУД ТОМАС Д ; Вуд Томас Дайер ; ВУД, ТОМАС ДАЙЕР ; ХАВИНГА РИЧАРД Д ; ХАВИНГА Ричард Д. (СА)

Agent(s): ALVARO CORREA ORDONEZ ; BROWNING BUSHMAN PC ; BROWNING BUSHMAN PC SUITE 1800 ; BUSHMAN AND ASSOCIATES P C ; BUSHMAN AND ASSOCIATES PC ; C JAMES BUSHMAN ; FINLAYSON AND SINGLEHURST ; GOODWIN MCKAY ; LOCKEY ROBERT ALEXANDER ; LOREN G HELMREICH ; PARLEE MCLAWS LLP ; SCHUPFNER GEORG ; SPRUSON AND FERGUSON

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR 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 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 SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

32) Family number: 56968699 (US2014202769 AA)

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Title: X-Y-Z PIPE RACKER FOR A DRILLING RIG

Abstract: Apparatus and methods include an x-direction support structure extending in the same direction as a line extending between a well center and a V-door on a drilling rig and include a y-direction support structure moveable along the x-direction support structure. The y-direction support structure extends on a drilling rig in a direction transverse to the line extending between the well center and the V-door on the drilling rig. A racker device is carried by the y-direction support structure and is configured to connect to and carry a tubular stand used in a well drilling process, the racker device being moveable along the y-direction support structure from a position inline with the line extending between the well center and the V-door on the drilling rig to a position offline from the line to provide space for additional drilling processes along the line extending between the well center and the V-door on the drilling rig.

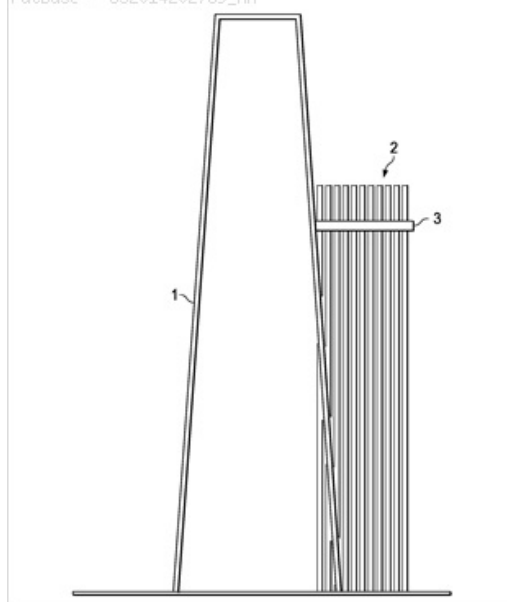
Classifications:

International (IPC 8-9): E21B15/00 E21B19/14 E21B19/15 E21B19/20

CPC: E21B15/00 E21B19/14 E21B19/20 E21B7/02

US: 1/1 175/57 175/85 414/800

PatBase - US2014202769_AA



Family:

Publication number	Publication date	Application number	Application date
US2014202769 AA	20140724	US20140159722	20140121
US9562407 BB	20170207	US20140159722	20140121
US2017096866 AA	20170406	US20160354686	20161117
US9951572 BB	20180424	US20160354686	20161117
US2017254162 AA	20170907	US20170599764	20170519
WO14116697 A1	20140731	WO2014US12540	20140122

Priority:

US20130755727P 20130123 US20140159722 20140121 US20160354686 20161117
US20170599764 20170519

Probable Assignee: NABORS IND INC

Assignee(s): (std): NABORS IND INC ; NABORS INDUSTRIES INC

Inventor(s): (std): MAGNUSON CHRISTOPHER

Agent(s): HAYNES AND BOONE LLP ; JOHNSON DUSTIN ET AL

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

33) Family number: 63469366 (US2016258178 AA)

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Title: MAST TRANSPORT SKID

Abstract: A transportable unit has a skid with a pivot connector to pivotally attach to a first mast leg of a drill rig mast. The skid also has a support connector to attach to a second mast leg support of the drill rig mast and a substructure connector to attach to a substructure of a drill rig.

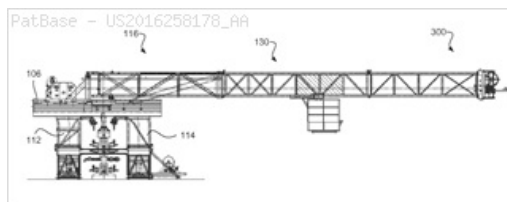
Classifications:

International (IPC 8-9): B66C23/06 E04H12/18 E04H12/34

E21B15/00 E21B19/02 E21B7/00 E21B7/02

CPC: E04H12/182 E04H12/187 E04H12/345 E21B15/00 E21B15/003

US: 1/1 52/116



Family:

Publication number	Publication date	Application number	Application date
CA2982441 AA	20171011	CA20162982441	20160217
US10273708 BB	20190430	US20150639842	20150305
US2016258178 AA	20160908	US20150639842	20150305
WO16140801 A1	20160909	WO2016US18290	20160217

Priority:

US20150639842 20150305 WO2016US18290 20160217

Probable Assignee: PATTERSON UTI DRILLING CO LLC

Assignee(s): (std): PATTERSON UTI DRILLING CO LLC

Assignee(s): BUTLER KRISTOPHER LANDON MURRAY ; HOLST KATHERINE J ; JONES MICHAEL F ; MEDLAND CHRISTOPHER ; OIL COUNTRY ENGINEERING SERVICES LTD ; SCHROEDER BRADLEY JAMES ; SPRINGER TYSON ANDREW

Inventor(s): (std): BUTLER KRISTOPHER LANDON MURRAY ; HOLST KATHERINE J ; JONES MICHAEL F ; MEDLAND CHRISTOPHER ; SCHROEDER BRADLEY JAMES ; SPRINGER TYSON ANDREW

Agent(s): BERESKIN AND PARR LLP SENCRL SRL; HOLLAND AND HART; PRATT BRYAN 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 IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

34) Family number: 73176376 (US2019048667 AA)

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Title: ELECTRICAL POWER TRANSMISSION FOR WELL CONSTRUCTION APPARATUS

Abstract: Electrical power transmission for well construction apparatus via a rotatable spool positioned at and affixed to a moveable well construction apparatus at a wellsite and an electrical power cable at least partially wound on the rotatable spool and connected to stationary equipment at an end of the electrical power cable distal from the rotatable spool.

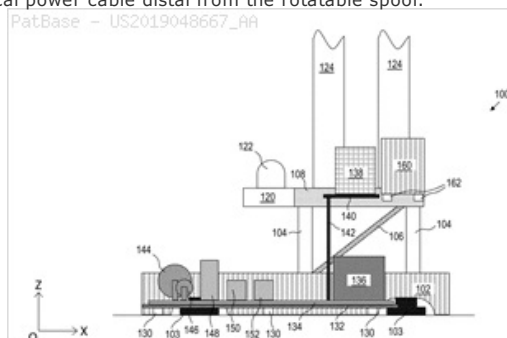
Classifications:

International (IPC 8-9): B65H75/44 E01B17/00 E21B17/00 E21B7/02

G01R31/02 G01R31/58 H01B7/18 H01F38/14 H01F38/30 H02G11/02 H02G13/00 H02G3/04 H02G9/02

CPC: E21B15/003 E21B17/003 E21B7/02 G01R31/58 H01B7/18 H01F2038/143 H01F2038/305 H01F38/14 H02G11/02 H02G9/02

US: 1/1 191/12.2R



Family:

Publication number	Publication date	Application number	Application date
US10760348 BB	20200901	US20170675849	20170814
US2019048667 AA	20190214	US20170675849	20170814
WO19036402 A1	20190221	WO2018US46594	20180814

Priority:

US20170675849 20170814

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): (std): SCHLUMBERGER CA LTD ; SCHLUMBERGER TECHNOLOGY BV ; SCHLUMBERGER TECHNOLOGY CORP ; SERVICES PETROLIERS SCHLUMBERGER

Assignee(s): SCHLUMBERGER CANADA LTD

Inventor(s): (std): KRIPPNER NICK PAUL ; ORBAN JACQUES ; WHITE CARLOS

Agent(s): GREENE RACHEL E; GREENE RACHEL E ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC 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

Title: MAST LEG PULLEY

Abstract: A mast system includes a first leg of a mast pivotally connected to a pivot support and a second leg of the mast pivotally connected to a leg support. The leg support has a first support end with a surface connector to attach to a rig surface and a second support end with a leg connector to connect to the second leg to form a joint. A cable with a first cable end is attached to the leg support, and a force is exerted on the leg support through the cable that causes the leg support to rotate about the joint when the mast is lowered.

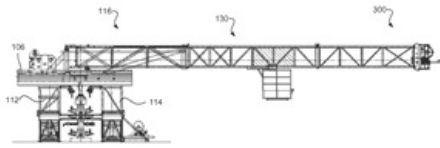
Classifications:

International (IPC 8-9): E04H12/18 E04H12/34 E21B15/00 E21B7/02

CPC: E21B15/00 E21B7/023

US: 1/1 52/117

PatBase - US2016258215_AA

**Family:**

Publication number	Publication date	Application number	Application date
CA2982434 AA	20171011	CA20162982434	20160217
US2016258215 AA	20160908	US20150639856	20150305
US9512676 BB	20161206	US20150639856	20150305
WO16140802 A1	20160909	WO2016US18294	20160217

Priority:

US20150639856 20150305 WO2016US18294 20160217

Probable Assignee: PATTERSON UTI DRILLING CO LLC

Assignee(s): (std): PATTERSON UTI DRILLING CO LLC

Assignee(s): BUTLER KRISTOPHER LANDON MURRAY ; HOLST KATHERINE J ; JONES MICHAEL F ; MEDLAND CHRISTOPHER ; OIL COUNTRY ENGINEERING SERVICES LTD ; SCHROEDER BRADLEY JAMES ; SPRINGER TYSON ANDREW

Inventor(s): (std): BUTLER KRISTOPHER LANDON MURRAY ; HOLST KATHERINE J ; JONES MICHAEL F ; MEDLAND CHRISTOPHER ; SCHROEDER BRADLEY JAMES ; SPRINGER TYSON ANDREW

Agent(s): BERESKIN AND PARR LLP SENCRL SRL; HOLLAND AND HART LLP; PRATT BRYAN 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 IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: TRACTOR MOUNTED ROCK DRILLS

Abstract: (Claim 1) i,-i claim 2, in_ivhich the power transmission means in said housing compris-.s-.

Classifications:

International (IPC 8-9): E21B7/02

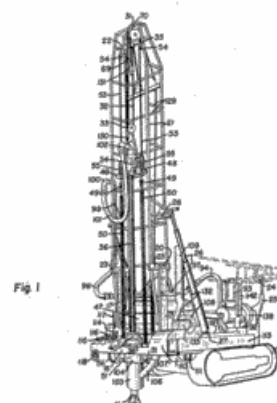
International (IPC 1-7): E21B15/00

CPC: E21B7/021

US: 173/147 173/148 173/151 173/26 173/40 173/44 173/75 175/170 175/209 175/211 175/217 175/85

PatBase - US2838282_A

June 10, 1956 G. COLQUITT 2,838,282
TRACTOR MOUNTED ROCK DRILLS
Filed Feb. 9, 1955 6 Sheets-Sheet 1



INVENTOR
Odie Colquitt
BY [Signature]
ATTORNEY

Family:

Publication number	Publication date	Application number	Application date
US2838282 A	19580610	US19550487086	19550209

Priority:

US19550487086 19550209

Probable Assignee:

WINTER WEISS CO

Assignee(s): (std):

WINTER WEISS CO

Assignee(s):

THE WINTER WEISS CO

Inventor(s): (std):

ODIE COLQUITT

Inventor(s):

COLQUITT ODIE

37) Family number: 48264361 (US2011030942 AA)

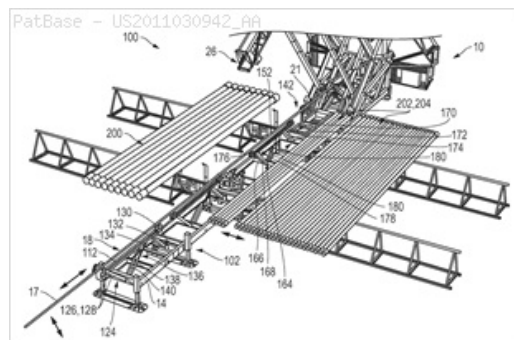
© PatBase

Title: PIPE STAND

Abstract: An active, smartpipe stand (apparatus and method) for feeding and receiving pipe in a horizontal orientation to and from a pipe handling apparatus has a first pipe-lifting mechanism, a second pipe-lifting mechanism, and a pipe-rotating mechanism positioned between the first and second pipe-lifting mechanisms. The bottom of the first pipe-lifting mechanism is connected to the skid of the pipe handling apparatus. The bottom of the second pipe-lifting mechanism is connected to the skid of the pipe handling apparatus. The bottom of the pipe-rotating mechanism is connected to the skid of the pipe handling apparatus. Individual tubulars are unloaded, prepared, staged and sequenced, assembled and presented for delivery from horizontal to vertical. The pipe stand is positioned under the boom of the pipe handling apparatus when the apparatus is in the first position. The pipe stand extends within the skid structure.

Classifications:**International (IPC 8-9):** E21B19/14 E21B19/16 E21B19/18

E21B19/20 F16L3/23

CPC: E21B19/155 E21B19/20 F16L1/19 F16L1/23**US:** 166/77.51 166/77.510P 166/85.1 414/22.62 414/22.620S**Family:**

Publication number	Publication date	Application number	Application date
CA2807464 AA	20130204	CA20102807464	20100804
CA2807464 C	20140422	CA20102807464	20100804
US2011030942 AA	20110210	US20100850572	20100804
US8469085 BB	20130625	US20100850572	20100804
WO11017471 A2	20110210	WO2010US44470	20100804
WO11017471 A3	20110519	WO2010US44470	20100804

Priority:

US20090231272P 20090804

US20100850572 20100804

WO2010US44470 20100804

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP**Assignee(s):** (std): ORGERON KEITH J ; T AND T ENGINEERING SERVICES INC**Assignee(s):** SCHLUMBERGER CANADA LTD ; SCHLUMBERGER TECHNOLOGY CORP**Inventor(s):** (std): ORGERON KEITH J**Agent(s):** FINLAYSON AND SINGLEHURST; FISHER JOHN G ET AL; JOHN G; PAUL D; SCHEEF AND STONE L L P; SCHEEF AND STONE LLP; STORM LLP

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

38) Family number: 43196955 (US2009232624 AA)

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Title: PIPE HANDLING APPARATUS WITH ARM STIFFENING

Abstract: A pipe handling apparatus has a supporting structure, an arm pivotally interconnected to the supporting structure such that the supporting structure and the arm are movable between a first position and a second position within a single degree of freedom, and a stiffener cooperative with the arm when the arm and the supporting structure are in the second position. The stiffener applies a mechanical resistance to the arm in the second position. The second position is at an end of the travel of the supporting structure and the arm. The stiffener applies a variable resistance to the arm as the arm moves from the first position to the second position. This variable resistance is at its greatest when the arm is in the second position.

Classifications:**International (IPC 8-9):** B65G47/24 B66C23/00 B66C23/06

B66C23/92 B66F9/00 E02F3/00 E04H12/20 E21B19/00 E21B19/087

E21B19/14 E21B19/15 E21B19/20 E21B19/24 F16L1/00 H01L21/68

International (IPC 1-7): E21B19/00 E21B19/14 E21B19/15**CPC:** E21B19/087 E21B19/155 E21B19/16 F16D65/562 E21B19/20

E21B19/24 E21B19/14 E21B15/003 E21B43/0135 E21B10/633

E02B17/021 F16L1/065 Y10S414/126

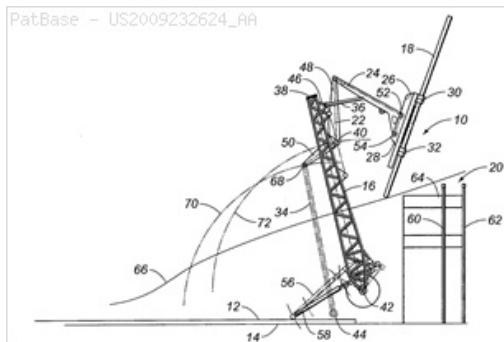
US: 1/1 166/77.52 175/85 175/85P 212/255 212/293 254/30

405/184 405/184S 414/22.51 414/22.510S 414/22.52 414/22.54

414/22.540P 414/22.540S 414/22.55 414/22.550P 414/22.62

414/720 414/742 414/783 414/815 414/815S 414/816 414/816S

414/913 52/148 52/167.6 901/21 901/22 901/48



Family:

Publication number	Publication date	Application number	Application date
BRPI0818770 A2	20150407	BR2008PI18770	20081023
BRPI0818770 B1	20180828	BR2008PI18770	20081023
BRPI0920061 A2	20160405	BR2009PI20061	20091027
BRPI0920093 A2	20151215	BR2009PI20093	20091027
BRPI0920097 A2	20151215	BR2009PI20097	20091027
BRPI0920302 A2	20160216	BR2009PI20302	20091027
BRPI0920302 B1	20190604	BR2009PI20302	20091027
CA2703703 AA	20100423	CA20082703703	20081023
CA2703703 C	20130108	CA20082703703	20081023
CA2741647 AA	20110426	CA20092741647	20091027
CA2741653 AA	20110426	CA20092741653	20091027
CA2741653 C	20150127	CA20092741653	20091027
CA2741693 AA	20110426	CA20092741693	20091027
CA2741693 C	20150127	CA20092741693	20091027
CA2748422 AA	20110426	CA20092748422	20091027
CA2748422 C	20150217	CA20092748422	20091027
EP2212513 A2	20100804	EP20080842699	20081023
EP2212513 A4	20160217	EP20080842699	20081023
EP2212513 B1	20190116	EP20080842699	20081023
EP2350426 A2	20110803	EP20090824072	20091027
EP2350428 A2	20110803	EP20090829595	20091027
EP2350429 A2	20110803	EP20090829597	20091027
EP2350430 A2	20110803	EP20090829598	20091027
EP2350430 A4	20170315	EP20090829598	20091027
EP2350430 B1	20180912	EP20090829598	20091027
KR20100094978 A	20100827	KR20107011200	20081023
KR20110113607 A	20111017	KR20117012225	20091027
KR20110089412 A	20110808	KR20117012242	20091027
KR20110108331 A	20111005	KR20117012243	20091027
KR20110111279 A	20111010	KR20117012244	20091027
MX2010004535 A1	20101110	MX20100004535	20081023
MX2011004397 A1	20110728	MX20110004397	20091027
MX2011004398 A1	20110729	MX20110004398	20091027
MX2011004400 A1	20110728	MX20110004400	20091027
MX2011004402 A1	20110728	MX20110004402	20091027
MX348465 B	20170613	MX20130001428	20081023
MY163958 A	20171115	MY20110001881	20091027
MY154315 A	20150529	MY20110001882	20091027
SG196391 A1	20140129	SG20130009619	20091027
US7918636 BA	20110405	US20070923451	20071024
US7726929 BA	20100601	US20080013979	20080114
US2009232624 AA	20090917	US20080259245	20081027
US7980802 BB	20110719	US20080259245	20081027
US2010034619 AA	20100211	US20080259248	20081027
US8128332 BB	20120306	US20080259248	20081027
US2010034620 AA	20100211	US20080259251	20081027
US7946795 BB	20110524	US20080259251	20081027
US2010032213 AA	20100211	US20080259252	20081027
US8469648 BB	20130625	US20080259252	20081027
US8419335 BA	20130416	US20090371593	20090214
US8192129 BA	20120605	US20100789332	20100527
US2011200412 AA	20110818	US20110076727	20110331
US8506229 BB	20130813	US20110076727	20110331
US8690508 BA	20140408	US20110114842	20110524
US2012170998 AA	20120705	US20120413462	20120306
US8393844 BB	20130312	US20120413462	20120306
US2012243964 AA	20120927	US20120489346	20120605
US8696288 BB	20140415	US20120489346	20120605
US9194193 BA	20151124	US20130966086	20130813
WO09055590 A2	20090430	WO2008US80987	20081023
WO09055590 A3	20090709	WO2008US80987	20081023
WO10051279 A2	20100506	WO2009US62220	20091027
WO10051279 A3	20100715	WO2009US62220	20091027
WO10062610 A2	20100603	WO2009US62240	20091027

WO10062612 A2	20100722	WO2009US62249	20091027
WO10062612 A3	20100722	WO2009US62243	20091027
WO10062613 A2	20100603	WO2009US62248	20091027
WO10062613 A3	20100722	WO2009US62248	20091027

Priority:

US20070923451	20071024	US20080013979	20080114	WO2008US80987	20081023
US20080259248	20081027	US20080259251	20081027	US20080259245	20081027
US20080259252	20081027	US20090371593	20090214	WO2009US62240	20091027
WO2009US62243	20091027	WO2009US62220	20091027	WO2009US62248	20091027
US20100789332	20100527	US20110076727	20110331	US20110114842	20110524
US20120413462	20120306	US20120489346	20120605	US20130966086	20130813

Probable Assignee: T AND T ENGINEERING SERVICES

Assignee(s): (std): ORGERON KEITH J ; SCHLUMBERGER TECHNOLOGY BV ; SERVICES PETROLIERS SCHLUMBERGER ; T AND AMP T ENGINEERING SERVICES ; T AND T ENG SERVICES ; T AND T ENGINEERING SERVICES ; T AND T ENGINEERING SERVICES INC

Assignee(s): SCHLUMBERGER CANADA LTD ; SCHLUMBERGER TECHNOLOGY CORP ; T AND T ENGINEERING SERVICES INC13430 NORTHWEST FREEWAY, SUITE 204HOUSTONTX77040US ; T AND T ENGINEERING SERVICES INC200 - 16131 N. ELDRIDGE PARKWAYTOMBALLTX77377US ; T AND T ENGINEERING SERVICES INC204 - 13430 NORTHWEST FREEWAYHOUSTONTX77040US ; 티엔티 엔지니어링 서비스

Inventor(s): (std): KEITH J ORGERON ; ORGERON KEITH J

Inventor(s): ORGERON KEITH JUS ; 오르제론, 케이트, 제이. ; 오르제론, 키이스, 제이.

Agent(s): CHU ANDREW W; EGBERT JOHN S; EGBERT LAW OFFICES; FINLAYSON AND SINGLEHURST; FISCHER JOHN G; JOHN F; JOHN G; KORENBERG ALEXANDER TAL; MARKS AND CLERK SINGAPORE LLP; PAUL D; SCHEEF AND STONE L L P; SCHEEF AND STONE LLP; SCHEET AND STONE LLP; SCHLUMBERGER INTELLECTUAL PROPERTY DEPARTMENT; STORM LLP; UEXKUELL AND STOLBERG; 이견주

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT 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

39) Family number: 76605338 (US2019352979 AA)

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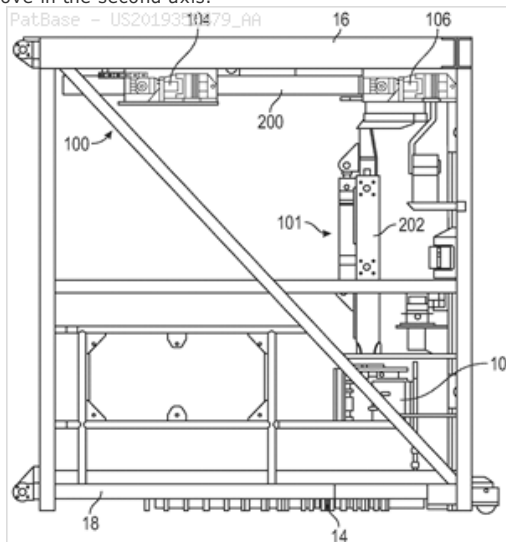
Title: SYSTEM FOR MOVING A TRANSFER BRIDGE CRANE

Abstract: A system for moving a bridge crane includes a first drive and a second drive coupled to a support structure, a first sheave and a second sheave coupled to the support structure, and third sheaves coupled to a beam movable in a first axis. The system includes a first line coupled to the first drive, the first sheave, the second sheave, and one or more of the third sheaves. The first line is coupled to a gripping assembly that is coupled to the beam and movable in a second axis. The system includes a second line coupled to the second drive, the first sheave, the second sheave, and the third sheaves. The second line is coupled to the gripping assembly. Rotating the first and second drives causes the beam and the gripping assembly to move in the first axis and/or the gripping assembly to move in the second axis.

Classifications:

International (IPC 8-9): B66C11/18 B66C17/06 E21B19/14

CPC: B66C11/18 B66C11/22 B66C17/06 E21B19/00 E21B19/14



Family:

Publication number	Publication date	Application number	Application date
US2019352979 AA	20191121	US20180984503	20180521

Priority:

US20180984503 20180521

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): (std): SCHLUMBERGER TECHNOLOGY CORP

Inventor(s): (std): ZAPICO JAMES ARTHUR

40) Family number: 53672650 (US2013112395 AA)

© PatBase

Title: TOP DRIVE SYSTEMS AND METHODS

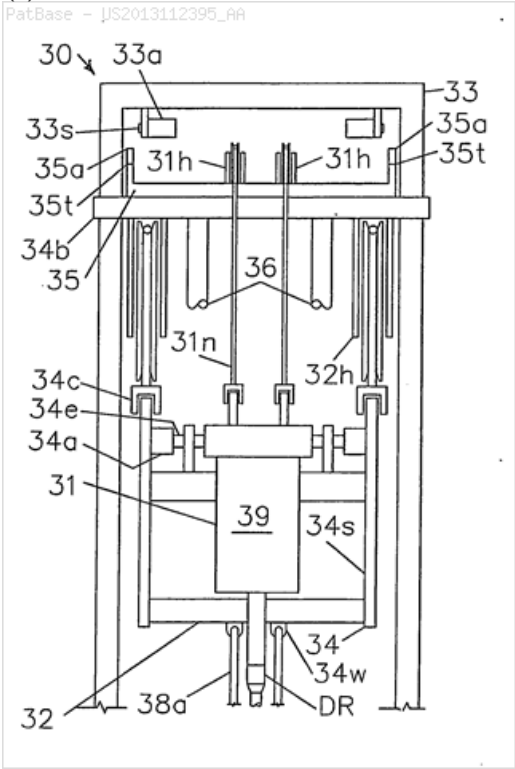
Abstract: Systems and methods for wellbore operations which employ a drive subsystem for rotating tubulars releasably connected to a hoist subsystem for moving tubulars, the hoist subsystem and the drive subsystem movable as a unit or the subsystems movable independently of each other and the subsystems independently dockable at selected locations in the derrick. This abstract is provided to comply with the rules requiring an abstract which will allow a searcher or other reader to quickly ascertain the subject matter of the technical disclosure and is submitted with the understanding that it will not be used to interpret or limit the scope or meaning of the claims, 37 C.F.R. 1.72(b).

Classifications:

International (IPC 8-9): E21B19/18 E21B3/02

CPC: E21B19/18 E21B3/02

US: 166/77.52



Family:

Publication number	Publication date	Application number	Application date
US2013112395 AA	20130509	US20120506688	20120508
US9010410 BB	20150421	US20120506688	20120508

Priority:

US20110628890P 20111108 US20120506688 20120508

Probable Assignee: STORY MAX JERALD

Assignee(s): (std): STORY MAX JERALD

Inventor(s): (std): STORY MAX JERALD

Agent(s): GUY

41) Family number: 66160576 (WO17100913 A1)

PatBase

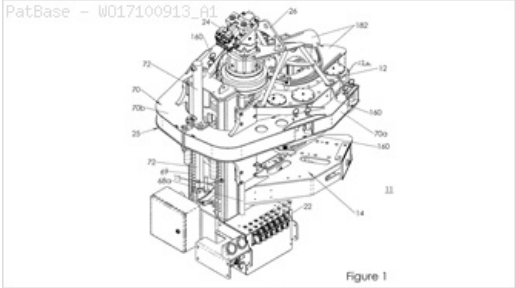
Title: TORQUE WRENCH

Abstract: A torque wrench for making and breaking connection joints between sections of pipe on a well operation rig is configured for use in either vertical or slant operations. The torque wrench includes a concentric bearing between the power tong and the frame. The concentric bearing supports and centralizes the power tong for substantially friction free rotation about well center such that any torque generated in the power tong is reacted only through a torque monitoring coupling, such as including a torque reactor and load cell. The torque wrench also has a thread compensation system that permits the power tong to float relative to the back-up tong as pipes are threaded up or out, while remaining centered.

Classifications:

International (IPC 8-9): E21B19/16

CPC: E21B19/16 E21B19/161 E21B19/163



Family:

Publication number	Publication date	Application number	Application date
CA3008007 AA	20180608	CA20163008007	20161212
WO17100913 A1	20170622	WO2016CA51460	20161212

Priority:

US20150269658P 20151218 WO2016CA51460 20161212

Probable Assignee: PROSTAR MFG INC

Assignee(s): (std): PROSTAR MFG INC

Assignee(s): CLARKE DANIEL JOHN ; CLARKE JASON PETER ; KUSLER DANIEL HARVARD ; LITZENBERGER MARK JOHN ; PROSTAR ENERGY TECHNOLOGIES CANADA GP LTD ; WRIGHT ADAM

Inventor(s): (std): CLARKE DANIEL JOHN ; CLARKE JASON PETER ; KUSLER DANIEL HARVARD ; LITZENBERGER MARK JOHN ; WRIGHT ADAM

Agent(s): BENNETT JONES LLP; CALDWELL ROSEANN B ET AL

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

42) Family number: 53330947 (US8408334 BA) © PatBase

Title: STABBING APPARATUS AND METHOD

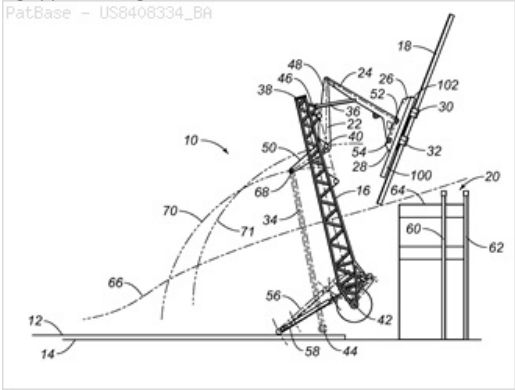
Abstract: A tubular handling apparatus has a main rotating structural member pivotally movable between a first position and a second position, an arm interconnected to the main rotating structural member, and a gripper mechanism affixed to an end of the arm opposite the main rotating structural member. The gripper mechanism has a stab frame, a first gripper translatably attached to a side of the stab frame, and a second gripper translatably attached to the side of the stab frame below the first gripper. A connection bar is connected to the first and second grippers so as to translate the grippers for a substantially identical distance. A translating mechanism translates the grippers along the side of the stab frame.

Classifications:

International (IPC 8-9): B25J21/00 B25J5/02 E21B19/15 E21B19/20 G21F7/00

CPC: E21B19/155 E21B19/20 B25J21/00 B25J5/02 E21B19/087 G21F7/00

US: 175/52 175/85 414/22.54 414/22.58 414/22.62 1/1



Family:

Publication number	Publication date	Application number	Application date
US8408334 BA	20130402	US20090632261	20091207
US9500049 BA	20161122	US20130855599	20130402

Priority:

US20080121838P 20081211 US20090632261 20091207 US20130855599 20130402

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): (std): ORGERON KEITH J ; SCHLUMBERGER TECHNOLOGY CORP ; T AND T ENG SERVICES INC ; T AND T ENGINEERING SERVICES INC

Inventor(s): (std): FIRTH GARY ; ORGERON KEITH J

Agent(s): JOHN G; PAUL D; SCHEEF AND STONE L L P; SCHEEF AND STONE LLP

43) Family number: 22265384 (US3001592 A) © PatBase

Title: WELL DRILLING AND SERVICING BARGE INCLUDING BRIDGE AND RIG STRUCTURE AND METHODS

Abstract: (Claim 1) 1. A method of erecting an over-waterplatform comprising: raising a barge above the water at a weR site; sinking at least one platform caisson while guidin- the same from said barge; positioning a platform upon said caisson; lowering said barge back onto the water; moving said bar.-e a safe workin_g distance away from said plat- form; again raising said barge above the water; and extending a bridge over the water from and outboard of said barge to aposition wherein one end thereof overlies said platform and the center of gravity of said brid.-e is inboard of said barge.

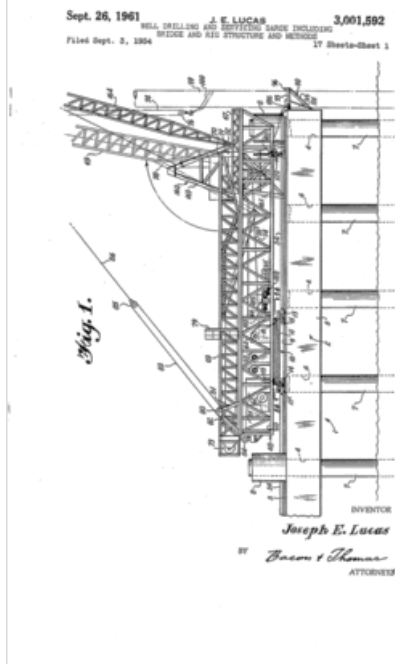
Classifications:

International (IPC 8-9): E02B17/00 E02B17/02 E21B15/00 E21B15/02

International (IPC 1-7): E21B15/02

CPC: E02B17/021 E02B2017/0056 E21B15/02

US: 175/8 175/9 405/201

**Family:**

Publication number	Publication date	Application number	Application date
US3001592 A	19610926	US19540454098	19540903

Priority:

US19540454098 19540903

Probable Assignee:

DE LONG CORP

Assignee(s): (std):

DE LONG CORP ; LONG CORP DE

Inventor(s): (std):

LUCAS JOSEPH E

44) Family number: 73175896 (US2019049909 AA)

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Title: ELECTRICAL POWER TRANSMISSION FOR WELL CONSTRUCTION APPARATUS

Abstract: Apparatus and methods pertaining to a moveable well construction apparatus to be electrically energized via an electrical power transmission path extending between a stationary power source and the moveable well construction apparatus. The path comprises cables and connectors. A system comprises a detector operable for generating information indicative of whether the path is properly installed. The system permits the path to be electrically energized when the detector-generated information indicates the path is properly installed, and prevents the path from being electrically energized when the detector-generated information indicates the path is not properly installed.

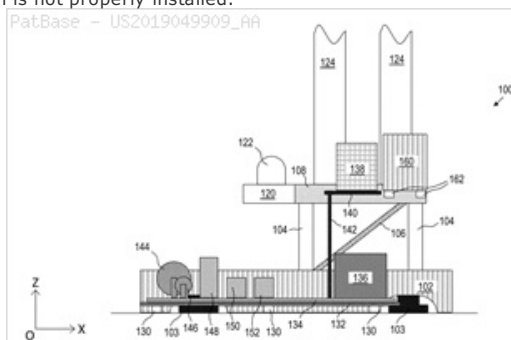
Classifications:**International (IPC 8-9):** E21B15/00 E21B41/00 G05B19/042

G06F21/62 G06F21/81 H04L29/06 H04L9/00 H04L9/32

CPC: E21B15/003 E21B41/0092 E21B43/16 G05B19/042

G05B2219/25153 G06F21/629 G06F21/81 G06F2221/2137

H04L63/0428 H04L9/32 H04L9/3263

US: 1/1 713/170**Family:**

Publication number	Publication date	Application number	Application date
US10649427 BB	20200512	US20170676135	20170814
US2019049909 AA	20190214	US20170676135	20170814

Priority:

US20170676135 20170814

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP**Assignee(s):** (std):

SCHLUMBERGER TECHNOLOGY CORP

Inventor(s): (std):

KRIPPNER NICK PAUL ; ORBAN JACQUES ; WHITE CARLOS

Agent(s):

GREENE RACHEL E

Title: ELECTRICAL POWER TRANSMISSION FOR WELL CONSTRUCTION APPARATUS

Abstract: Apparatus and methods pertaining to a moveable well construction apparatus to be electrically energized via an electrical power transmission path extending between a stationary power source and the moveable well construction apparatus. The path comprises cables and connectors. A system comprises a detector operable for generating information indicative of whether the path is properly installed. The system permits the path to be electrically energized when the detector-generated information indicates the path is properly installed, and prevents the path from being electrically energized when the detector-generated information indicates the path is not properly installed.

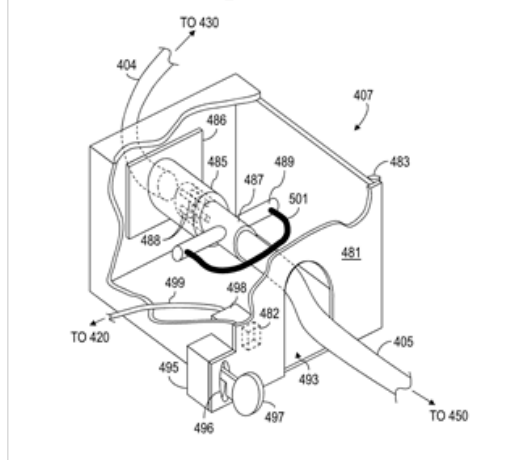
Classifications:

International (IPC 8-9): E05B11/02 E05B19/00 E05B65/52 E21B15/00 E21B41/00 G01R31/02 G01R31/04 H01R103/00 H01R24/28 H02G15/10 H02G9/04

CPC: E05B11/02 E05B19/00 E05B65/52 E21B15/003 E21B41/00 G01R31/025 G01R31/026 G01R31/04 G01R31/043 G01R31/50 G01R31/52 G01R31/54 G01R31/66 G01R31/68 H01R2103/00 H01R24/28 H02G15/10 H02G9/04

US: 1/1 166/66

PatBase - US2019048687_AA



Family:

Publication number	Publication date	Application number	Application date
US10697275 BB	20200630	US20170676035	20170814
US2019048687 AA	20190214	US20170676035	20170814

Priority:

US20170676035 20170814

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): (std): SCHLUMBERGER TECHNOLOGY CORP

Inventor(s): (std): KRIPPNER NICK PAUL ; ORBAN JACQUES ; WHITE CARLOS

Agent(s): GREENE RACHEL E

Title: SHIPPING ARRANGEMENT AND ASSEMBLY PROCEDURE FOR DRILLING RIG STRUCTURES

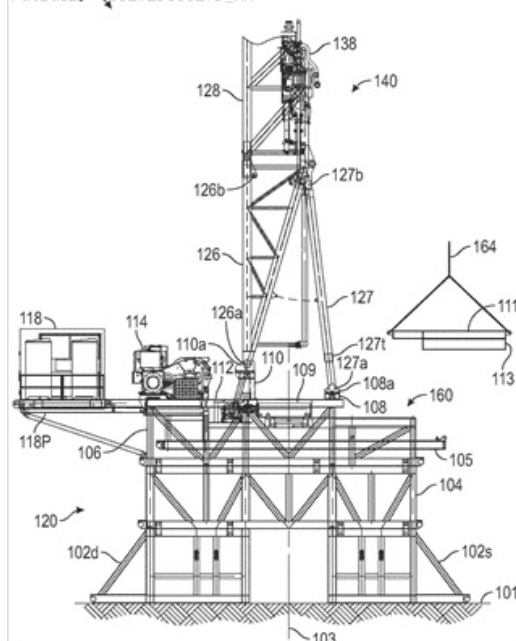
Abstract: A center drill floor assembly of a drilling rig structure includes a center floor structure and a drilling rig mast section that is at least partially nested within the center floor structure, wherein the center drill floor assembly is adapted to be transported to a drilling site as a single modular assembly and removably attached as a single modular assembly to a drilling rig substructure during assembly of the drilling rig structure.

Classifications:

International (IPC 8-9): E04H12/34 E04H12/345 E21B15/00 E21B15/003 E21B7/02 E21B7/023

CPC: E04H12/345 E21B15/00 E21B15/003 E21B7/023

PatBase - US2019368279_AA



Family:

Publication number	Publication date	Application number	Application date
BR102019010864 A2	20200505	BR20191010864	20190528

Priority:

US20180677490P 20180529 US20180019126 20180626

Probable Assignee: NAT OILWELL VARCO LP

Assignee(s): (std): NAT OILWELL VARCO LP

Assignee(s): NATIONAL OILWELL VARCO L P

Inventor(s): (std): COLIN GUO ; DONNALLY ROBERT BENJAMIN ; GUO COLIN ; ROBERT BENJAMIN DONNALLY

47) Family number: 73176387 (US2019048686 AA)

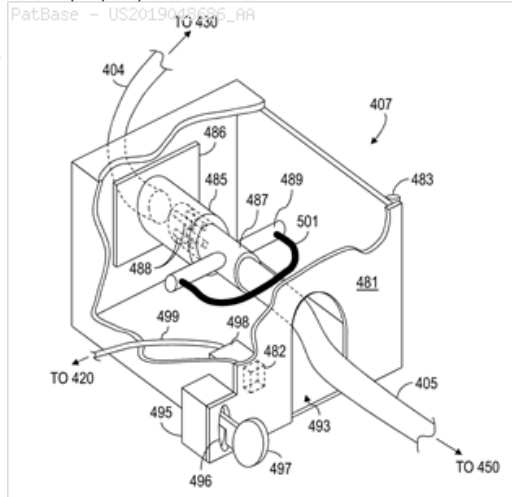
© PatBase

Title: ELECTRICAL POWER TRANSMISSION FOR WELL CONSTRUCTION APPARATUS

Abstract: Apparatus and methods pertaining to a moveable well construction apparatus to be electrically energized via an electrical power transmission path extending between a stationary power source and the moveable well construction apparatus. The path comprises cables and connectors. A system comprises a detector operable for generating information indicative of whether the path is properly installed. The system permits the path to be electrically energized when the detector-generated information indicates the path is properly installed, and prevents the path from being electrically energized when the detector-generated information indicates the path is not properly installed.

Classifications:

International (IPC 8-9): E05B11/02 E05B19/00 E05B65/52
E21B15/00 E21B17/00 E21B17/02 E21B41/00 G01R31/04 G01R31/66
H01R101/00 H01R24/28 H02G15/06 H02G15/10 H02G9/04
CPC: E05B11/02 E05B19/00 E05B65/52 E21B15/003 E21B41/00
G01R31/66 H01R2101/00 H01R24/28 H02G15/06 H02G15/10
H02G9/04
US: 1/1 166/66



Family:

Publication number	Publication date	Application number	Application date
US10724341 BB	20200728	US20170675896	20170814
US2019048686 AA	20190214	US20170675896	20170814
WO19036405 A1	20190221	WO2018US46599	20180814

Priority:

US20170675896 20170814

Probable Assignee: SCHLUMBERGER TECHNOLOGY CORP

Assignee(s): (std): SCHLUMBERGER CA LTD ; SCHLUMBERGER TECHNOLOGY BV ; SCHLUMBERGER TECHNOLOGY CORP ; SERVICES PETROLIERS SCHLUMBERGER

Assignee(s): SCHLUMBERGER CANADA LTD

Inventor(s): (std): KRIPPNER NICK PAUL ; ORBAN JACQUES ; WHITE CARLOS

Agent(s): GREENE RACHEL E; GREENE RACHEL E ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE 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

48) Family number: 57054862 (US2014209382 AA)

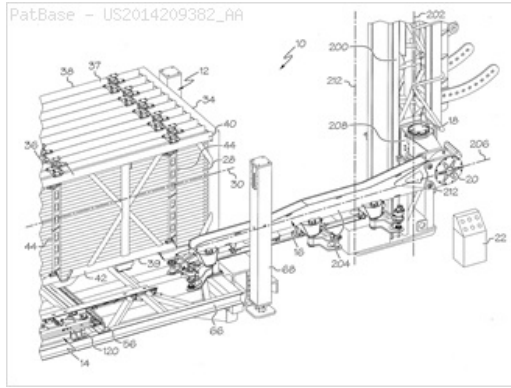
© PatBase

Title: AUTOMATED ROD MANIPULATOR

Abstract: An automated rod manipulator system for moving a drill rod section from a storage magazine to a drill rig and connecting the drill rod to a drill string of the drill rig without manual manipulation of any parts. The automated rod manipulator system may comprise a magazine to store and dispense a plurality of drill rod sections, a carriage to convey one of the plurality of drill rod sections from the magazine to a transfer position; and a gripping arm coupled to a drill rig mast of a drilling rig, the gripping arm operable to convey one of the plurality of drill rod sections from a transfer position to a position aligned with a spindle center line of the drilling rig. The automated rod manipulator may also include a control system and an alignment assembly for aligning the drill rod section on a spindle centerline of the drill rig.

Classifications:

International (IPC 8-9): E21B19/00 E21B19/14 E21B19/15
E21B19/20 E21B19/24
CPC: E21B19/14 E21B19/15 E21B19/155 E21B19/20 E21B19/24
US: 175/24

**Family:**

Publication number	Publication date	Application number	Application date
AU2014209142 AA	20150813	AU20140209142	20140124
BR112015017703 A2	20170711	BR20151117703	20140124
CA2899040 AA	20150722	CA20142899040	20140124
CA2899040 C	20190416	CA20142899040	20140124
MX2015009492 A1	20151116	MX20150009492	20140124
MX365998 B	20190624	MX20150009492	20140124
US10145188 BB	20181204	US20140164053	20140124
US2014209382 AA	20140731	US20140164053	20140124
WO14117036 A1	20140731	WO2014US13067	20140124

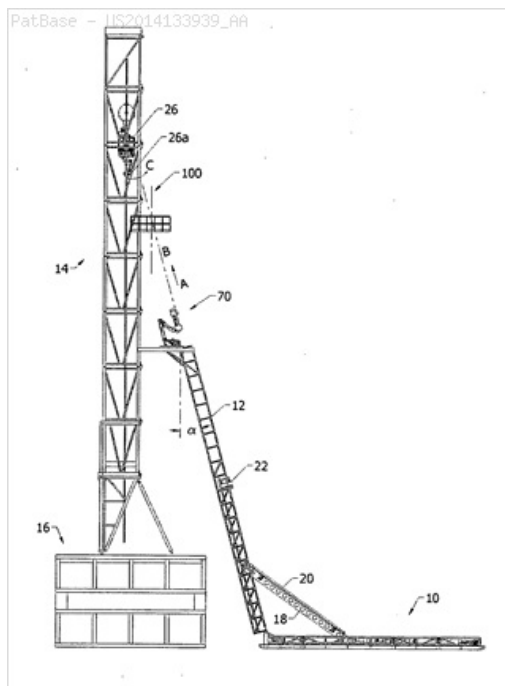
Priority:

US20130757009P 20130125 US20130785365P 20130314 WO2014US13067 20140124
US20140164053 20140124

Probable Assignee: LAYNE CHRISTENSEN CO**Assignee(s):** (std): LAYNE CHRISTENSEN CO**Assignee(s):** CAMPANINI STEPHANO ; CHRISTENSEN BOYLES CORP ; LAYNE INLINER LLC ; MAGGERT JAMES ; MANDER PAUL ; PNC BANK NATIONAL ASSOCIATION ; SMITH BRIAN ; US BANK NATIONAL ASSOCIATION ; VITALI GIANMARIA**Inventor(s):** (std): BRIAN SMITH ; CAMPANINI STEFANO ; CAMPANINI STEPHANO ; GIANMARIA VITALI ; JAMES MAGGERT ; MAGGERT JAMES ; MANDER PAUL ; PAUL MANDER ; SMITH BRIAN ; STEPHANO CAMPANINI ; VITALI GIANMARIA**Agent(s):** BOWMAN ROBERT J ET AL; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; HUSCH BLACKWELL LLP; PHILLIPS ORMONDE FITZPATRICK**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**49) Family number: 53535839** (US2014133939 AA)

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Title: PORTABLE PIPE HANDLING SYSTEM**Abstract:** A portable pipe handling apparatus and method includes providing a support structure a providing a support structure adapted to support a pipe stand along a pipe stand building axis associated therewith, and inclining the pipe stand building axis so that an upper end of the axis is adjacent a top drive in a drilling rig mast and so that the pipe stand translation trajectory which is substantially co-axial with the pipe stand building axis intersects a hand-off window between the top drive and the pipe stand building axis.**Classifications:****International (IPC 8-9):** E21B19/00 E21B19/14 E21B19/15 E21B19/16**CPC:** E21B19/14 E21B19/155 E21B19/16**US:** 1/1 414/22.51 414/22.52 414/22.55 414/800



Family:

Publication number	Publication date	Application number	Application date
CA2792116 AA	20130411	CA20122792116	20121011
CA2792116 C	20191112	CA20122792116	20121011
US2014133939 AA	20140515	US20120573878	20121011
US9157286 BB	20151013	US20120573878	20121011
US2016002988 AA	20160107	US20150792311	20150706
US9879486 BB	20180130	US20150792311	20150706

Priority:

US20110545989P 20111011 CA20122792116 20121011 US20120573878 20121011
US20150792311 20150706

Probable Assignee: WARRIOR RIG LTD

Assignee(s): (std): RICHARDSON ALLAN STEWART ; WARRIOR RIG LTD ; WARRIOR RIG LTD ; WARRIOR RIG TECH LTD ; WRIGHT MONTE NEIL

Assignee(s): WARRIOR ENERGY TECHNOLOGIES LTD ; WARRIOR RIG TECHNOLOGIES LTD

Inventor(s): (std): RICHARDSON ALLAN STEWART ; RICHARDSON ALLEN STEWART ; WRIGHT MONTE NEIL

Agent(s): EDWARDS ANTONY C ; JOHN S ; OYEN WIGGS GREEN AND MUTALA LLP

50) Family number: 42227363 (US2008237170 AA)

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Title: EXTENSION BRIDGES AND METHODS OF TENDER ASSIST

Abstract: An extension bridge is provided that comprises at least one modular tank affixed to the deck of a vessel, and a pipe bridge spanning the distance between the at least one modular tank and an offshore platform. Alternatively, the extension bridge comprises spaced apart first and second extension beams, which are removeably and independently affixed to the deck of a vessel. At least a portion the first and second extension beams extend beyond the transom of the vessel. The extension bridge further includes at least one modular tank affixed to the first and second extension beams and a pipe bridge affixed to the at least one modular tank furthest from the vessel and an offshore structure.

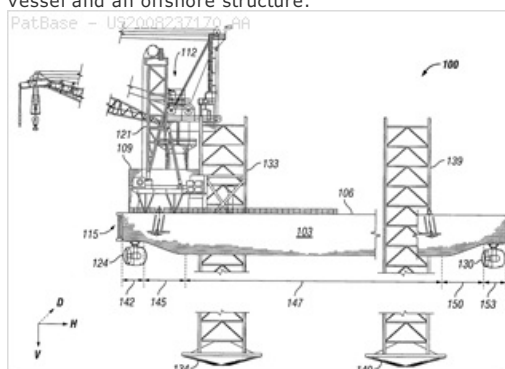
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International (IPC 1-7): B63B27/10 B63B35/44 B66C23/52

CPC: B63B35/4413 B66C23/52 E02B17/021 E02B2017/006 E02B2017/0082 G01S19/53 G05D1/0208 B63B27/19 B63B27/30 B63B35/00 B66C7/08 B66C5/10 B63B21/22 B63B27/10 B63B35/44 B63H25/42 B63B75/00 E21B19/06 B63B35/003 E02B2017/0091 F03D13/10 F03D13/40 F05B2240/95 Y02E10/72 Y02E10/727

US: 212/179 212/270 212/270P 212/270S 212/347 212/348 405/196 405/196P 405/197 405/197P 405/198 405/199 414/803 414/803P 701/116 701/116P



Family:

Publication number	Publication date	Application number	Application date
BRPI0808590 A2	20140812	BR2008PI08590	20080328
CN101772450 A	20100707	CN200880018074	20080328
CN101772450 B	20140212	CN200880018074	20080328
EP2142710 A2	20100113	EP20080789110	20080328
EP2142711 A2	20100113	EP20080789136	20080328

