

Diego Gonzalez

1) Family number: 67744871 (US2017350153A)

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Title: SIDE SADDLE SLINGSHOT DRILLING RIG

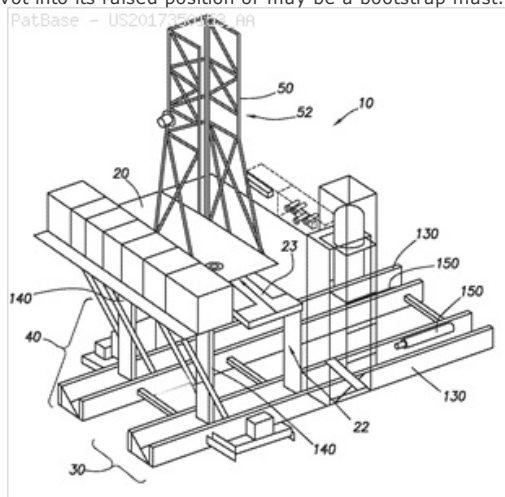
Abstract: A side saddle slingshot drilling rig includes a left and right substructure including a left and right lower box. The side saddle slingshot drilling rig includes a drill rig floor mechanically and pivotably coupled to the left and right lower boxes such that it is pivotably movable from a lowered 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.

Classifications:

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

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

US: 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
US2017350153 AA	20171207	US20170615322	20170606
US2019145122 AA	20190516	US20190246472	20190112
US10214936 BB	20190226	US20170615322	20170606
WO17214148 A1	20171214	WO2017US36156	20170606

Priority:

US20160346982P 20160607 US20170615322 20170606 WO2017US36156 20170606
US20190246472 20190112

Probable Assignee: NABORS DRILLING TECH USA INC

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

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

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

Inventor(s): GUPTA JR

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

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

2) Family number: 54742372 (US2015008039A)

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Title: MODULAR DRILLING RIG SYSTEM

Abstract: Modular transfigurible drilling rig system composed of multiple components, which system is transfigurible between a transport mode in which the components of the system are transportable and an operational mode in which the components are assembled to a drilling rig which is adapted to drill into a well centre in the ground.

Classifications:

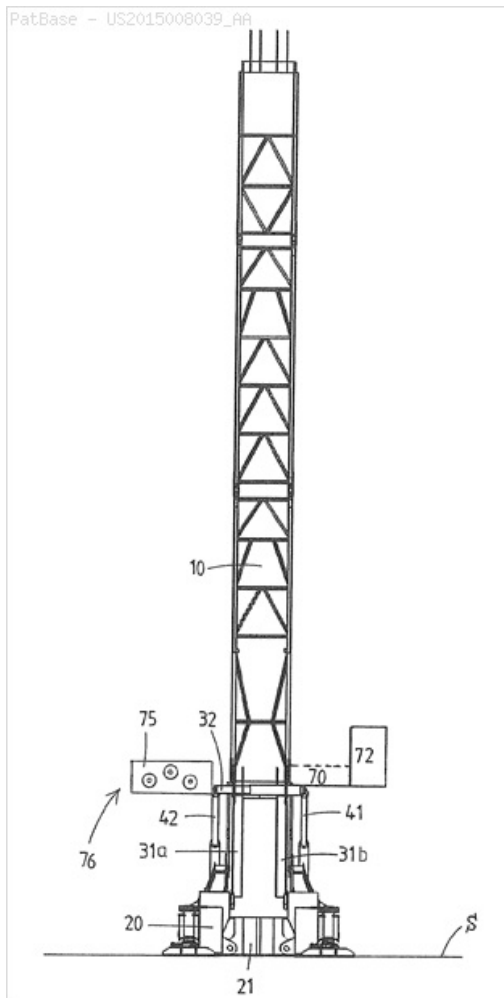
International (IPC 8-9): E04B1/19 E04B1/343 E04B1/344 E04H12/18 E04H12/34 E21B15/00 E21B15/02 E21B19/14 E21B19/20

E21B7/02 (Advanced/Invention)

CPC: E21B19/20 E21B19/14 E21B7/02 E04H12/345 E04B1/19

E04B1/34336 E04B1/344 E04H12/187 E21B15/00

US: 1/1 175/170 175/52 175/57 175/85 52/116 52/741.1

**Family:**

Publication number	Publication date	Application number	Application date
AU2013228092 AA	20130912	AU20130228092	20130301
AU2013228092 BB	20161208	AU20130228092	20130301
AU2013228093 AA	20130912	AU20130228093	20130301
AU2013228093 BB	20160929	AU20130228093	20130301
BR112014021825 A2	20170620	BR20141121825	20130301
BR112014021825 A8	20170718	BR20141121825	20130301
CA2866346 AA	20140904	CA20132866346	20130301
CN104160106 A	20141119	CN201380012548	20130301
CN104160106 B	20161116	CN201380012548	20130301
DE602013007928 D1	20160714	DE201360007928T	20130301
EP2823128 A2	20150114	EP20130710078	20130301
EP2823128 B1	20160525	EP20130710078	20130301
EP2823129 A2	20150114	EP20130710908	20130301
US2015008039 AA	20150108	US20130383489	20130301
US2015021095 AA	20150122	US20130383411	20130301
US2016002946 AA	20160107	US20150853811	20150914
US2016002947 AA	20160107	US20150854959	20150915
US9169698 BB	20151027	US20130383411	20130301
US9228394 BB	20160105	US20130383489	20130301
US9334667 BB	20160510	US20150853811	20150914
US9334668 BB	20160510	US20150854959	20150915
WO13133698 A2	20130912	WO2013NL50132	20130301
WO13133698 A3	20140605	WO2013NL50132	20130301
WO13133699 A2	20130912	WO2013NL50133	20130301
WO13133699 A3	20140828	WO2013NL50133	20130301

Priority:

US20120607309P	20120306	US20120657455P	20120608	EP20130710078	20130301
US20130383489	20130301	US20130383411	20130301	WO2013NL50132	20130301
WO2013NL50133	20130301	US20140383411	20140905	US20140383489	20140905
US20150853811	20150914	US20150854959	20150915		

Probable Assignee: ITREC BV**Assignee(s):** (std): ITREC BV**Assignee(s):** ITREC BVADMIRAAL TROMPSTRAAT 2NL-3115 HHSCHIEDAMNL ; ROODENBURG JOOP ; WIJNING DIEDERICK BERNARDUS**Inventor(s):** (std): WIJNING DIEDERICK BERNARDUS ; ROODENBURG JOOP ; WIJNING BERNARDUS DIEDERICK**Inventor(s):** DIEDERICK BERNARDUS WIJNING ; JOOP ROODENBURG ; WIJNING DIEDERICK BERNARDUSNL ; ROODENBURG JOOPNL**Agent(s):** FISHER ADAMS KELLY PTY LTD; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON;

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

Designated states:

3) Family number: 57180462 (US2014224543A)

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Title: SIDE SADDLE SUBSTRUCTURE

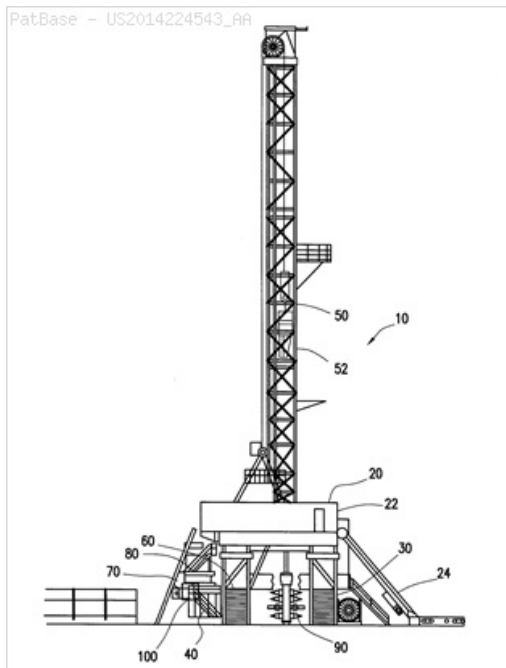
Abstract: The drilling rig includes a first substructure and a second substructure. The second substructure is positioned generally parallel to and spaced apart from the first substructure and generally the same height as the first substructure. The drilling rig further includes a drill floor coupled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

Classifications:

International (IPC 8-9): E04H12/34 E21B15/00 E21B19/14 E21B21/06 E21B21/10 E21B33/06 E21B7/02 (Advanced/Invention); E21B21/06 (Advanced/Non-invention)

CPC: E21B7/02 E21B21/065 E21B21/106 E21B33/06 E21B19/14 E21B15/003 E04H12/345 E21B15/00 E21B21/063

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
US2015218891 AA	20150806	US20150616234	20150206
US2016298394 AA	20161013	US20160191140	20160623
US2016369570 AA	20161222	US20160191094	20160623
US2017292334 AA	20171012	US20170623143	20170614
US2018119496 AA	20180503	US20170853283	20171222
US2018163426 AA	20180614	US20180893463	20180209
US2018258665 AA	20180913	US20180977997	20180511
US2018320401 AA	20181108	US20180035375	20180713
US2019203495 AA	20190704	US20190244974	20190110
US9708861 BB	20170718	US20150616234	20150206
US9810027 BB	20171107	US20140180049	20140213
US9926719 BB	20180327	US20160191140	20160623
US10094137 BB	20181009	US20180893463	20180209
US10094176 BB	20181009	US20160191094	20160623
US10214937 BB	20190226	US20180035375	20180713
US10221631 BB	20190305	US20170853283	20171222
US10280692 BB	20190507	US20170623143	20170614
US10407938 BB	20190910	US20180977997	20180511

Priority:

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

Probable Assignee: NABORS DRILLING TECHNOLOGIES USA INC

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

Assignee(s): NABORS DRILLING TECHNOLOGIES USA INC

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

Agent(s): ADOLPH; LOCKLAR ADOLPH; ADOLPH LOCKLAR

4) Family number: 68241744 (US2018016851A)

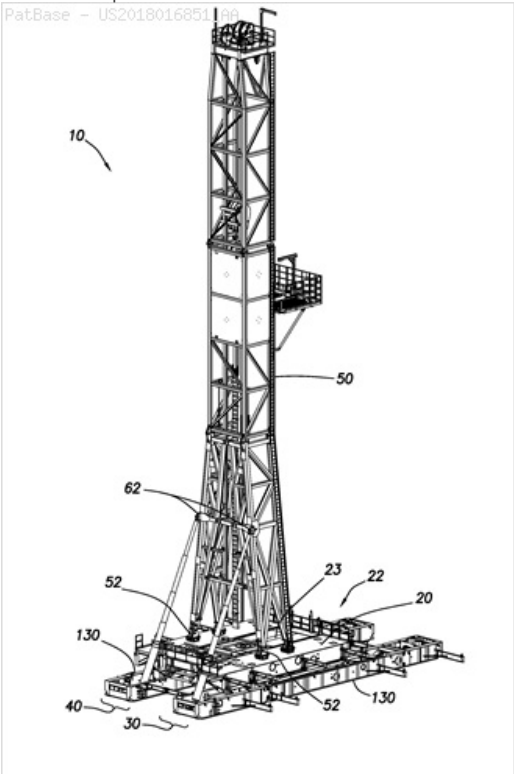
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Title: MAST AND SUBSTRUCTURE

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 (Advanced/Invention)
CPC: E21B15/003 E21B7/02 B66F11/04 E21B15/00
US: 1/1 175/162



Family:

Publication number	Publication date	Application number	Application date
CA3027526 AA	20181212	CA20173027526	20170606
CN109415895 A	20190301	CN201780041709	20170606
CO20190000173 A2	20190118	CO20190000173	20190110
NO20190151 A	20190204	NO20190000151	20190204
US2018016851 AA	20180118	US20170615448	20170606
WO18013258 A1	20180118	WO2017US36196	20170606

Priority:

US20160361827P 20160713 US20170615448 20170606 WO2017US36196 20170606

Probable Assignee: NABORS DRILLING TECH USA INC

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

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

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

Agent(s): SMART AND BIGGAR; LOCKLAR MICHAEL

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

5) Family number: 69658991 (US2018128056A)

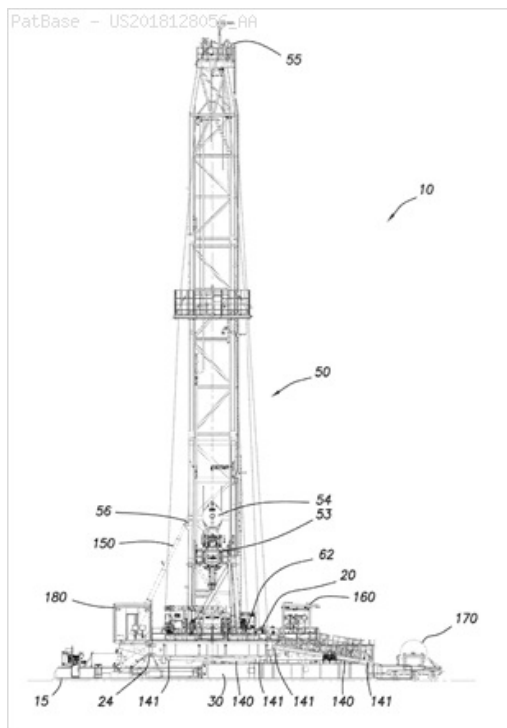
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Title: SIDE-SADDLE CANTILEVER MAST

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 E21B7/02 (Advanced/Invention)
CPC: E21B15/00 E04H12/345
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
US2018128056 AA	20180510	US20170806088	20171107
WO18085850 A1	20180511	WO2017US60429	20171107

Priority:

US20160418656P 20161107 US20170806088 20171107 WO2017US60429 20171107

Probable Assignee: NABORS DRILLING TECH USA INC

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

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

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

Agent(s): SMART AND BIGGAR; LOCKLAR MICHAEL

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

6) Family number: 1248158 (US3942593A)

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Title: Drill rig apparatus

Abstract: There is disclosed herein a mobile well drilling rig apparatus adapted for rapid assembly and disassembly thereof. The drilling rigs of the invention comprise a trailerable telescoping mast assembly and a separate sectionable substructure assembly therefor comprising a rig base, a working floor mounted in spaced relation above the base and a rig base extension extending outwardly from the drawworks side of the rig base. In a preferred embodiment, rail means defining a mastway are provided between the erected working floor and the rig base extension. The base mast section of the telescoping mast assembly is provided with cooperative mast roller means whereby the base of the mast structure is readily conveyed to the working floor and whereby the drawworks side mast legs are engaged into a trunnion arrangement therefor. Means are also provided for raising of the mast structure to the vertical from the drawworks side of the rig.

Classifications:

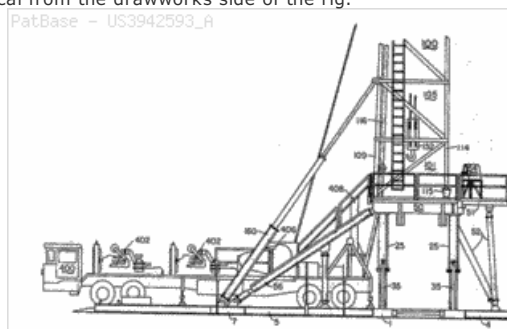
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International (IPC 1-7): E04H12/10 E04H12/18 E21B7/02

CPC: E21B7/023 E21B15/00 Y10T403/1616

European: E21B15/00 E21B7/02 E21B7/02F

US: 173/151 173/186 173/23 175/85 211/70.4 403/13 52/118



Family:

Publication number	Publication date	Application number	Application date
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US3942593 A	19760309	US19730407098	19731017
US4021978 A	19770510	US19760661394	19760225

Priority:

US19730407098 19731017 US19760661394 19760225

Probable Assignee: INGERSOLL RAND OILFIELD PRODUCTS CO

Assignee(s): (std): CABOT CORP

Assignee(s): INGERSOLL RAND OIL AND GAS EQUIPMENT CO ; INGERSOLL RAND OILFIELD PRODUCTS CO ; IRI INT ; IRI INT A CORP OF DELAWARE CORP ; IRI INTIONAL

Inventor(s): (std): JONES MILTON P ; MOORE JR HERMUS C ; WELCH RAYMOND L ; WALKER ELBERT ; BUSSE RALPH ; REEVE JR JOHN R

7) Family number: 34298765 (US2009321135A)

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Title: ROCKET RIG DRILLING APPARATUS

Abstract: A well drilling apparatus includes multiple, transportable, modular, pre-assembled sections which include a substructure and multiple mast sections. These pre-assembled sections allow for a quicker complete rig-up of the well drilling apparatus at ground level in a horizontal direction, without the use of a crane. Once the assembly has been completed at ground level, the mast is raised to its vertical operating position via mechanisms for raising and lowering dog tails. During transport, the guide rails are built-in to the mast sections and the crown block is attached to the traveling block, thereby facilitating the rigging-up process. The mast may be lowered after the drilling operation has been accomplished without interfering with any blow-out preventer devices that may have been placed on the wellhead while the structure was at its raised operational level.

Classifications:

International (IPC 8-9): E04H12/34 E21B15/00 E21B19/08

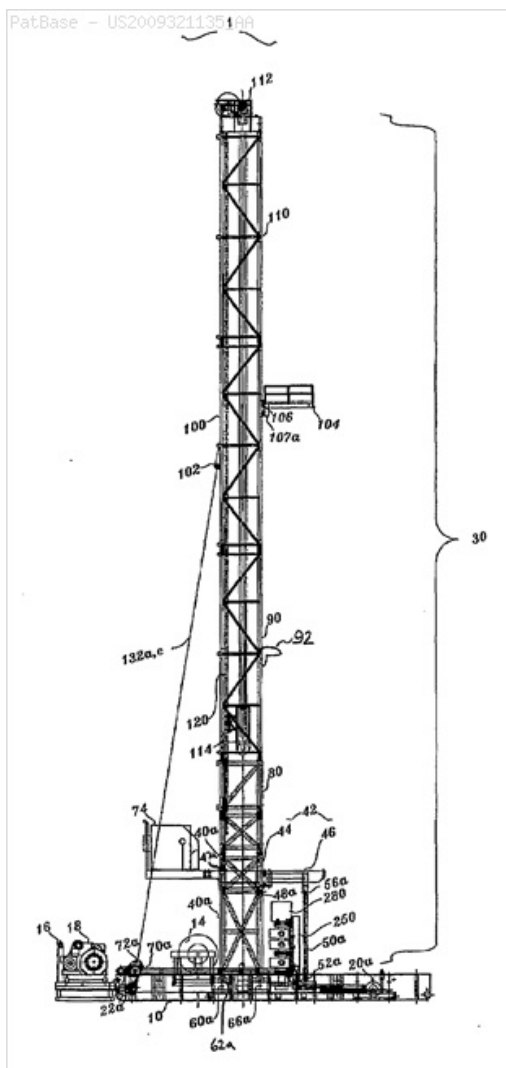
E21B7/02 (Advanced/Invention);

E04H12/00 E21B15/00 E21B19/00 E21B7/02 (Core/Invention)

CPC: E21B15/00 E21B19/00

European: E21B15/00 E21B19/00

US: 175/162 175/203 175/220 175/57 175/57P 52/116 52/116S



Family:

Publication number	Publication date	Application number	Application date
US2009321135 AA	20091231	US20060278755	20060816
US7828087 BB	20101109	US20060278755	20060816
WO07022300 A2	20070222	WO2006US32035	20060816
WO07022300 A3	20070705	WO2006US32035	20060816

Priority:

US20050708478P 20050816 US20060771561P 20060208 US20060278755 20060816
WO2006US32035 20060816 US20080278755 20080807

Probable Assignee: VORA THEODORE CHEN

Assignee(s): (std): VORA THEODORE CHEN

Inventor(s): (std): VORA THEODORE CHEN

Agent(s): WINSTEAD PC

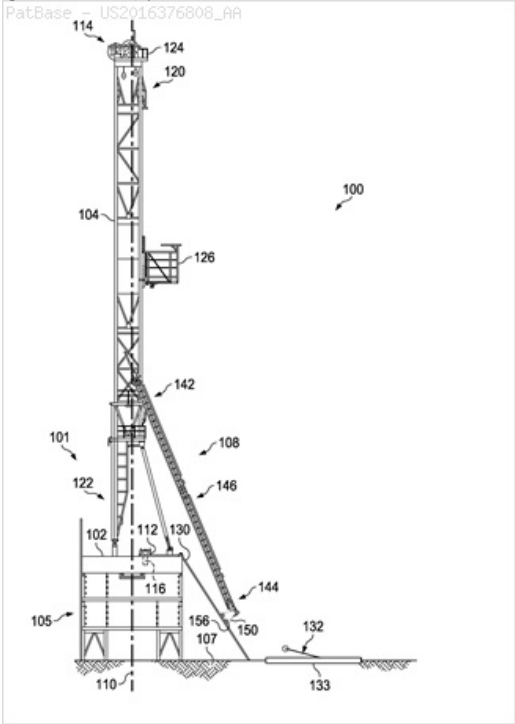
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8) Family number: 64520415 (US2016376808A) © PatBase

Title: DRILLING RIG COLUMN RACKER AND METHODS OF ERECTING SAME

Abstract: Methods for erecting a drilling structure on a drilling rig include hoisting a first end of a column racker with a support carried by a mast on the drilling rig while the column racker is in a first position, and advancing a second end of a column racker along a solid surface toward the mast while simultaneously hoisting the first end of the column racker to move the column racker toward a second position that is closer to vertical than the first position. Other methods include raising a first end of a column racker with a ground-based, powered lift structure, and introducing the first end of the column racker to the rig floor while supporting the weight of the column racker with the ground-based, powered lift structure.

Classifications:
International (IPC 8-9): E04H12/34 E21B15/00 E21B19/12 E21B19/14 E21B19/15 (Advanced/Invention)
CPC: E04H12/345 E21B15/00 E21B19/14 E21B19/12 E21B19/155
US: 1/1 52/123.1 52/745.18



Family:

Publication number	Publication date	Application number	Application date
CA2931787 AA	20161229	CA20162931787	20160601
CA2931787 C	20180424	CA20162931787	20160601
US2016376808 AA	20161229	US20150753328	20150629
US9879442 BB	20180130	US20150753328	20150629

Priority:
US20150753328 20150629

Probable Assignee: NABORS IND INC

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

Assignee(s): DEEL STEVEN K ; MAGNUSON CHRISTOPHER

Inventor(s): (std): MAGNUSON CHRISTOPHER ; DEEL STEVEN K

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

9) Family number: 30470334 (US2004069532A) © PatBase

Title: TOP DRIVE SYSTEM

Abstract: A torque track in conjunction with parallelogram links and a hydraulic cylinder is used for multiple purposes in a drilling rig top drive system. The torque track is rotationally mounted within the mast between the crown and the rig floor and pivotally mounted by the parallel linkages to the sides of a power swivel. The hydraulic cylinder is mounted to an arm at the lower end of the track and it's other end is connected to the fixed rig structure. When the power swivel is supplying torque during drilling, the linkage transmits the torque to the track which is restrained from rotating by the hydraulic cylinder. The torque is thereby transmitted via the hydraulic cylinder to the fixed rig structure rather than the mast. The hydraulic cylinder can also be used as a load cell to allow torque measurement as well as to pivot the power swivel when needed for pipe handling purposes. The arrangement thus provides triple top drive functionality.

Classifications:
International (IPC 8-9): E21B3/02 (Advanced/Invention); E21B3/00 (Core/Invention)
International (IPC 1-7): E21B3/02 E21B7/20
CPC: E21B3/02
European: E21B3/02
US: 16/67.752 166/77.52 175/17 175/170 175/57 175/85

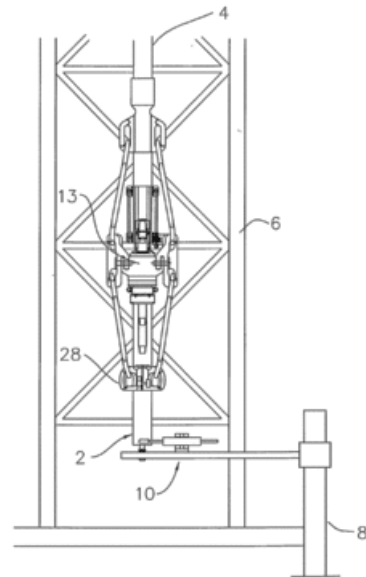


FIG 1

Family:

Publication number	Publication date	Application number	Application date
US2004069532 AA	20040415	US20020269262	20021011
US6832658 BB	20041221	US20020269262	20021011

Priority:

US20020269262 20021011

Probable Assignee:

KEAST LARRY G

Assignee(s): (std):

KEAST LARRY G

Inventor(s): (std):

KEAST LARRY G

10) Family number: 48533466 (US2011072737A)

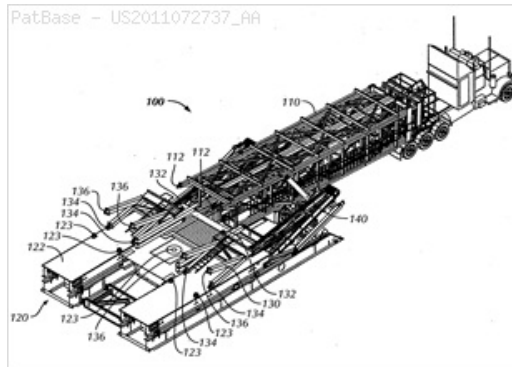
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Title: PORTABLE DRILLING RIG APPARATUS AND ASSEMBLY METHOD

Abstract: A portable drilling rig apparatus includes a rig floor having a pedestal structure thereon, the pedestal structure comprising a lower pivot point and a lower attachment point and wherein the pedestal structure is configured to be rotated to a vertical position about the lower pivot point. The drilling rig further includes a mast structure having a mast pivot point at a lower end of the mast structure wherein the mast pivot point is configured to be pinned to an upper pivot point of the pedestal structure.

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

F16B1/00 (Advanced/Invention)

CPC: E21B7/023 E21B7/021 F16B2200/50**European:** E21B7/02B E21B7/02F**US:** 403/335 403/335S 52/115 52/115P 52/116 52/116S 52/117 52/118 52/118S 52/119 52/146 52/651.05 52/745.18 52/745.180S**Family:**

Publication number	Publication date	Application number	Application date
US2011072737 AA	20110331	US20090568489	20090928
US2013318909 AA	20131205	US20130899293	20130521
US8959874 BB	20150224	US20130899293	20130521

Priority:

US20090568489 20090928

US20130899293 20130521

Probable Assignee: INT DRILLING EQUIPMENT CO LLC**Assignee(s):** (std): INT DRILLING EQUIPMENT CO LLC ; INTERNAT DRILLING EQUIPMENT COMPANY LLC ; WASTERVAL PHILIP**Assignee(s):** ELM PARK CAPITAL MANAGEMENT LLC AGENT AS ; INTERNATIONAL DRILLING EQUIPMENT COMPANY LLC ; PNC BANK NATIONAL ASSOCIATION AGENT AS ; INTEGRATED DRILLING EQUIPMENT LLC

Inventor(s): (std): WASTERVAL PHILIP
Agent(s): OSHA LIANG LLP

11) Family number: 43754932 (WO09111845A1)

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Title: COLLAPSIBLE DRILLING RIG

Abstract: A collapsible drilling rig (1) configured for transport on a vehicle trailer (2). The drilling rig (1) comprises a ground-bearing substructure (3) and a derrick (4) pivotally mounted to the substructure (3) and pivotable relative to the substructure (3) between a working erect position and a nonworking collapsed position for transport. The derrick (4) has a vertical attitude when in the working position and a generally horizontal attitude when in the nonworking position

Classifications:

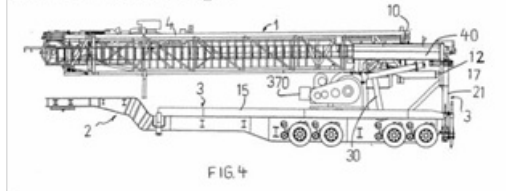
International (IPC 8-9): E21B15/00 E21B7/02 (Advanced/Invention);

E21B15/00 E21B7/02 (Core/Invention)

CPC: E21B7/023

European: E21B7/02F

PatBase - WO09111845_A1



Family:

Publication number	Publication date	Application number	Application date
AU2009225260 AA	20090917	AU20090225260	20090316
CA2716937 AA	20090917	CA20092716937	20090316
WO09111845 A1	20090917	WO2009AU00311	20090316

Priority:

AU20080901260 20080314 AU20090225260 20090316 WO2009AU00311 20090316

Probable Assignee: EASTERNWELL GROUP HOLDINGS PTY

Assignee(s): (std): EASTERNWELL GROUP HOLDINGS PTY ; STANGHERLIN GUIDO ; WESTCOTT STAN

Assignee(s): EASTERNWELL GROUP HOLDINGS PTY LTD ; EASTERNWELL GROUP INVESTMENTS PTY LTD

Inventor(s): (std): STANGHERLIN GUIDO ; WESTCOTT STAN

Inventor(s): GUIDO STANGHERLIN ; STAN WESTCOTT

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; SPRUSON AND FERGUSON; CULLEN AND CO

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

12) Family number: 65933657 (CO15064826A)

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Title: SISTEMA PARA PERFORACION DE POZOS CON TRANSMISION DE POTENCIA HIDRAULICO Hydraulic power TRANSMISION Well drilling system (Machine translation)

Abstract: Source: CO15064826A [ES] [Source: Claim 1] 1. K1 Descripcion **Machine translation:** [Source: Claim 1] 1. K1 Description

Classifications:

International (IPC 8-9): E21B4/02 E21B7/00 E21B7/02 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
CO15064826 A1	20170519	CO20150064826	20150320

Priority:

CO20150064826 20150320

Probable Assignee: JUAN JOSE BERNAL PUENTES

Assignee(s): ARNOLDO EMILIO DELGADO TOBON ; JUAN JOSE BERNAL PUENTES

Inventor(s): ARNOLDO EMILIO DELGADO TOBON

13) Family number: 63365276 (US2016251869A)

© PatBase

Title: METHODS AND APPARATUSES FOR ELEVATING DRILLING RIG COMPONENTS WITH A STRAND JACK

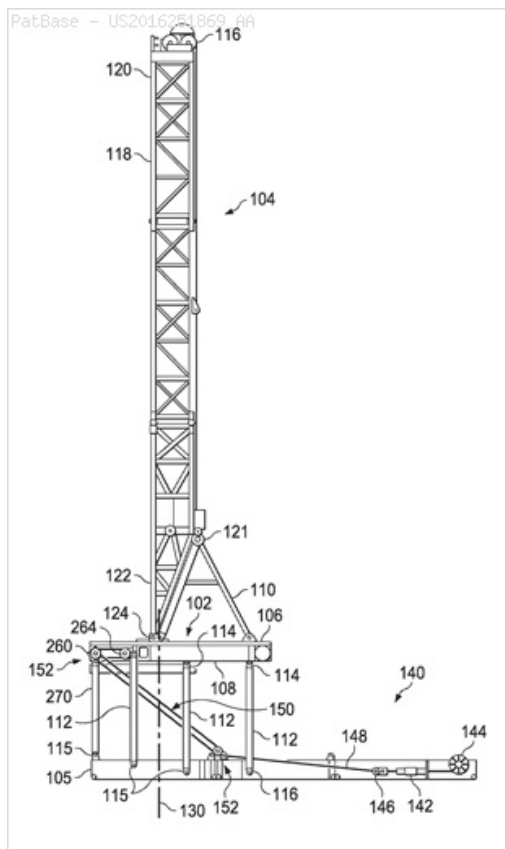
Abstract: Apparatuses and methods for erecting drilling structures including drill floors and drilling masts include attaching a rigging line to the drilling structure and to a strand jack arranged with at least one hydraulic jack and a plurality of clamps that alternately secure onto the rigging line and pull the rigging line in tension. Pulling the rigging line with the strand jack raises the drilling structures to an upright or elevated position.

Classifications:

International (IPC 8-9): E04H12/34 E21B15/00 (Advanced/Invention)

CPC: E21B15/00 E04H12/34 E04H12/345

US: 1/1 52/116



Family:

Publication number	Publication date	Application number	Application date
US2016251869 AA	20160901	US20160055137	20160226
US2017314287 AA	20171102	US20170655524	20170720
US9739071 BB	20170822	US20160055137	20160226
US10407937 BB	20190910	US20170655524	20170720

Priority:

US20150121679P 20150227 US20160055137 20160226 US20170655524 20170720

Probable Assignee: NABORS IND INC

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

Inventor(s): (std): MAGNUSON CHRISTOPHER ; DEEL STEVEN K

Agent(s): HAYNES AND BOONE LLP

14) Family number: 29081245 (US2003172599A)

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Title: ARRANGEMENT FOR SELF-ELEVATING DRILLING RIG

Abstract: The present invention is directed to an arrangement for a drilling rig and a process for erecting, disassembling, and laterally moving the drilling rig. In particular, the present invention is directed to an arrangement which permits moving the drilling rig to a closely spaced nearby well following the completion of one or more previous adjacent wells without disassembling the entire structure. Further, the present invention is directed to an arrangement that facilitates the rapid erection and later disassembly of a drilling rig.

Classifications:

International (IPC 8-9): E21B15/00 (Advanced/Invention);
E21B15/00 (Core/Invention)

International (IPC 1-7): E04H12/34

CPC: E21B15/003

European: E21B15/00F

US: 52/116 52/116P

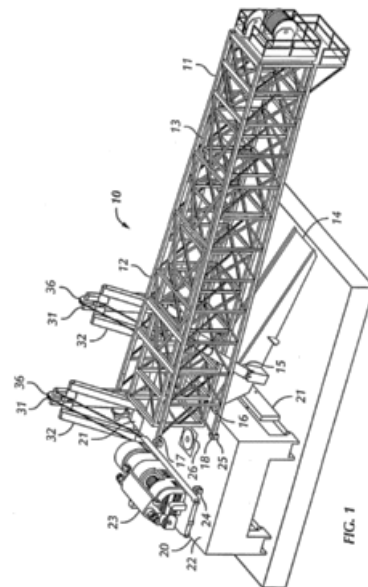


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
US2003172599 AA	20030918	US20030365858	20030213

Priority:

US20020364274P 20020313 US20030365858 20030213

Probable Assignee: HEARTLAND RIGS INT LLC

Assignee(s): (std): HEARTLAND RIG INTERNATIONAL LL ; HEARTLAND RIG INT LL

Assignee(s): HEARTLAND RIG INT LLC ; HEARTLAND RIG INTERNATIONAL LLC ; HEARTLAND RIGS INT ; HEARTLAND RIGS INT LLC

Inventor(s): (std): FRINK SHELBY

15) Family number: 2108955 (WO8301810A1)

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Title: HANDLING APPARATUS FOR PIPE AND OTHER TUBULARS

Abstract: An apparatus for transferring tubulars between pipe racks (R) and a drilling rig floor including a stationary trough (54) located below and extending towards the drilling rig (D) and a movable trough (60) aligned with the stationary trough having one end (62) supported on the drilling rig floor and the other end (64) powered to move between a lower position for transferring pipe to and from the stationary trough and an upper position for transferring pipe to and from the drilling rig floor. Two pairs of legs (190, 192) extending between pipe racks and the stationary trough are provided. Chain driven lugs (194, 196) driven by a single shaft (210) engage a length of pipe and carry it along the length of the legs. A portion (80) of the stationary trough in the loading location is caused to tilt between a tilted position for accepting pipe from the loading legs and a level position flush with the rest of the stationary trough whereby pipe may easily slide to and from the movable trough. A fluid actuated cylinder (244) having a ball and socket mechanism (246, 249) mounted on a lift plate (251) at one end of the cylinder is mounted underneath the apparatus at its center of gravity. The cylinder is extended, the lift plate engages a truck bed lifting the apparatus and the apparatus is pivoted about the ball and socket mechanism until the apparatus is aligned with the desired location and powered winches (w) drag it into position.

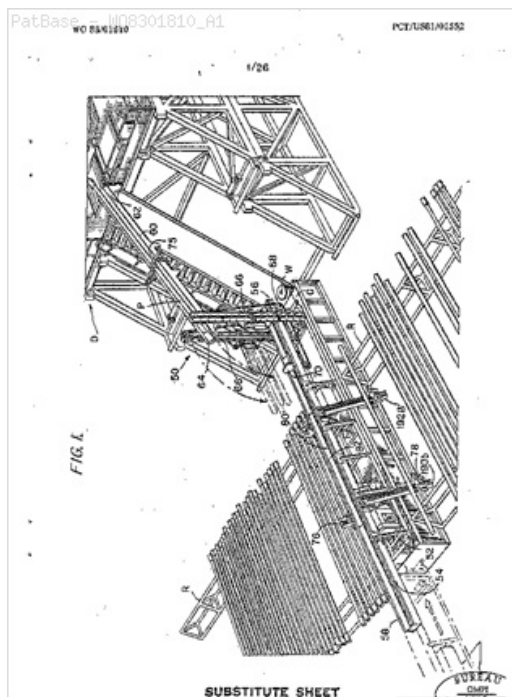
Classifications:

International (IPC 8-9): E21B19/15 (Advanced/Invention)

International (IPC 1-7): E21B19/14 E21B19/15

CPC: E21B19/15

European: E21B19/15



Family:

Publication number	Publication date	Application number	Application date
DE3153038 T	19831215	DE19813153038T	19811120
DE3153038 T1	19831215	DE19813153038T	19811120
EP0094383 A1	19831123	EP19820900173	19811120
GB2119427 A1	19831116	GB19830019069	19811120
GB2119427 B2	19860319	GB19830019069	19811120
GB2152561 A1	19850807	GB19850005052	19811120
GB2152561 B2	19860409	GB19850005052	19811120
GB2152562 A1	19850807	GB19850005053	19850227
GB2152562 B2	19860409	GB19850005053	19850227
GB8319069 A0	19830817	GB19830019069	19811120
GB8505052 A0	19850327	GB19850005052	19811120
GB8505053 A0	19850327	GB19850005053	19850227
JP58501952 T2	19831117	JP19820500149T	19830720
JP58501952 T2	19831117	JP19820500149	19830720
JP58501952 T2	19831117	JP19820500149	19811120
NO832583 A	19830715	NO19830002583	19830715
NO832583 L	19830715	NO19830002583	19830715
WO8301810 A1	19830526	WO1981US01552	19811120

Priority:

WO1981US01552 19811120 GB19830019069 19830714 GB19850005052 19850226
 GB19850005053 19850226 GB19850005053 19850227

Probable Assignee: INGRAM CORP

Assignee(s): (std): INGRAM CORP

Assignee(s): INGRAM CORP 70139 NEW ORLEANS LA US

Inventor(s): (std): ROBERT FRIAS ; DALE CAIN TROY ; GALLAGHER JOHN J ; FRIAS ROBERT ; CAIN TROY DALE ; LAGHER JOHN J ; WATSON WILLIAM E ; GALLAGHER JOHN J JR ; GALLAGHER JUN JOHN J

Inventor(s): TROY DALE CAIN ; WILLIAM E WATSON ; JOHN J LAGHER ; GALLAGHER JUN ; CAIN TROY DALE FORTH WORTH TEX ; FRIAS ROBERT ODESSA TEX ; WATSON WILLIAM E LAYFAYETTE LA US ; FRIAS ROBERT ODESSA TEX US ; GALLAGHER JUN JOHN J JEANERETTE LA US ; CAIN TROY DALE FORTH WORTH TEX US

Designated states: BR DE DK FR GB JP KP NL NO SE

16) Family number: 4388295 (US4453872A)

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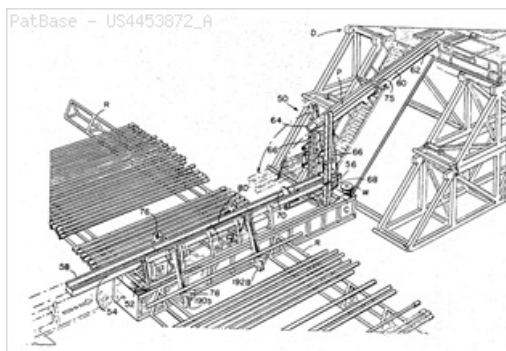
Title: Handling apparatus for pipe and other tubulars

Abstract: An apparatus for transferring tubulars between pipe racks and a drilling rig floor including a stationary trough located below and extending towards the drilling rig and a movable trough aligned with the stationary trough having one end supported on the drilling rig floor and the other end powered to move between a lower position for transferring pipe to and from the stationary trough and on upper position for transferring pipe to and from the drilling rig floor. A carriage having a frictional coating and wheels which run on guide structure below the stationary trough pushes and guides the pipe along the stationary trough. An endless chain system drives this carriage along the length of the stationary trough and includes a shock absorber system for dampening the forces on the carriage and chain when a pipe impacts the carriage. Two pair of legs extending between pipe racks and the stationary trough are provided. Chain driven lugs driven by a single shaft engage a length of pipe and carry it along the length of the legs. The legs are hinged at a middle section so that they may be easily folded for transport of the apparatus between drilling rig sites. In lieu of this lug mechanism, the legs can be pivoted by fluid actuated cylinders, which are pivotally attached to the apparatus and to the legs, between lower loading and upper unloading positions.

Classifications:

International (IPC 8-9): E21B19/15 (Advanced/Invention);

E21B19/00 (Core/Invention)
International (IPC 1-7): B63B35/02 E21B19/14 F16L1/04
CPC: E21B19/15
European: E21B19/15
US: 198/719 198/814 414/22 414/22.61 414/745 414/786 414/800



Family:

Publication number	Publication date	Application number	Application date
MX156979 A	19881018	MX19820194861	19821020
US4453872 A	19840612	US19810328252	19811207

Priority:

US19810328252 19811207

Probable Assignee: INGRAM TOOL CO INC A LA CORP

Assignee(s): (std): INGRAM CORP

Assignee(s): INGRAM TOOL CO INC ; INGRAM TOOL CO INC A LA CORP ; RESOURCE TOOL AND SUPPLY INC ; RESOURCE TOOL AND SUPPLY INC A LA CORP ; EPF A LA CORP CORP ; EPF CORP

Inventor(s): (std): FRIAS ROBERT ; CAIN TROY D ; GALLAGHER JR JOHN J ; WATSON WILLIAM ; CAIN TROY DALE ; GALLACHER JOHN J JR

Inventor(s): JOHN J GALLACHER JR ; TROY DALE CAIN ; WILLIAM WATSON ; ROBERT FRIAS

17) Family number: 2359430 (CA1169048A)

© PatBase

Title: HANDLING APPARATUS FOR PIPE AND OTHER TUBULARS

Abstract: An apparatus for transferring tubulars between pipe racks and a drilling rig floor including a stationary trough located below and extending towards the drilling rig and a movable trough aligned with the stationary trough having one end supported on the drilling rig floor and the other end powered to move between a lower position for transferring pipe to and from the stationary trough and on upper position for transferring pipe to and from the drilling rig floor. A carriage driven by an endless chain pushes and guides the pipe along the stationary trough. Two pair of legs extending between pipe racks and the stationary trough are provided. A portion of the stationary trough in the loading location is caused to tilt between a tilted position for accepting pipe from the loading legs and a level position flush with the rest of the stationary trough whereby pipe may easily slide to and from the movable trough. The lower end of the movable trough is lifted and lowered by a drive system associated with a pair of masts connected to the stationary trough.

Classifications:

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

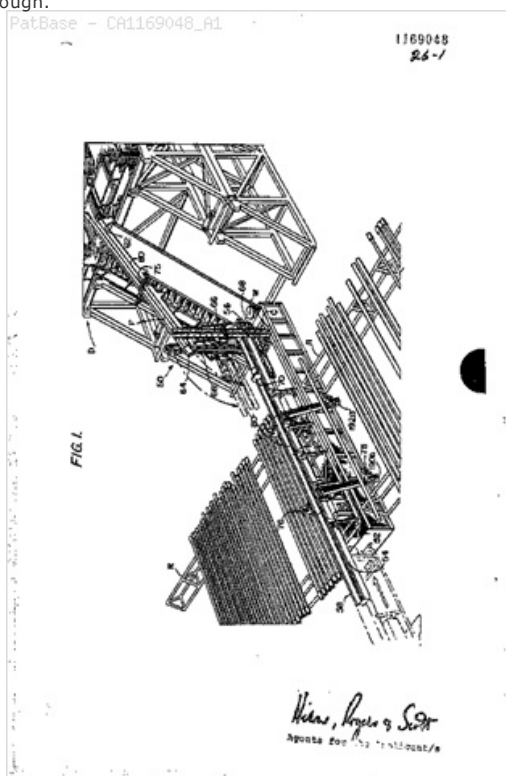
F03D3/00 (Advanced/Invention);

E21B19/00 F03D3/00 (Core/Invention)

International (IPC 1-7): E21B19/14 E21B19/15 F03D3/00

CPC: Y02E10/74

European: Y02E10/74



Family:

Publication number	Publication date	Application number	Application date
BR8204026 A	19840110	BR19820004026	19820712
CA1169048 A1	19840612	CA19820393695	19820107

Priority:

Probable Assignee: INGRAM CORP**Assignee(s):** (std): GASAFI ANTON ; INGRAM CORP**Assignee(s):** WATSON WILLIAM ; ANTON GASAFI ; CAIN TROY D ; FRIAS ROBERT ; GALLAGHER JOHN J JR**Inventor(s):** (std): CAIN TROY D ; FRIAS ROBERT ; GALLAGHER JOHN J JR ; GASAFI ANTON ; WATSON WILLIAM**Inventor(s):** GALLAGHER JOHN J ; ANTON GASAFI**Agent(s):** HIRONS AND ROGERS**18) Family number: 53730863** (US2013121801A)

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Title: SYSTEM FOR REPOSITIONING A COILED TUBING TENSIONER

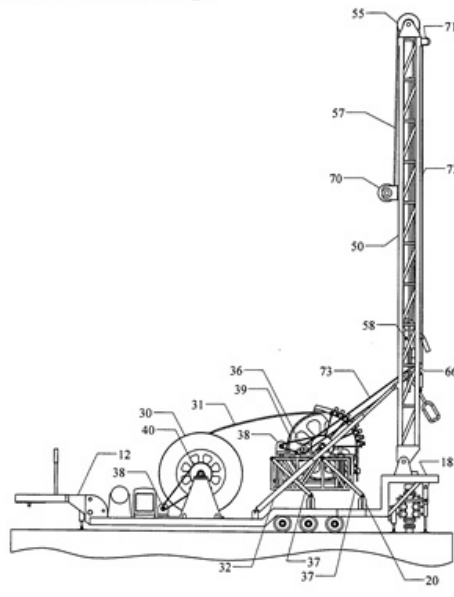
Abstract: A system for positioning a trailer mounted coiled tubing tensioner either in a first stowed position on the deck of a transport trailer or in a second position resting on an elevated rig floor of a drilling rig is described. The system for selectably elevating a coiled tubing tensioner from its first stowed position to its second position on the rig floor of a drilling rig includes the cooperative operation of the coiled tubing tensioner and its frame, multiple pivotable swing arms attached to the trailer at one end and the tensioner frame at the other end, an elevatable mast, a crown block, a drawworks winch, a top drive, a pair of tensioner lifting winches and multiple lifting lines deployed from the mast and reeved through sheaves mounted on the tensioner frame and the top drive.

Classifications:**International (IPC 8-9):** B66D1/26 B66D1/36

E21B19/22 (Advanced/Invention)

CPC: E21B19/22**US:** 166/381 166/77.1 166/77.2 254/286 414/800

PatBase - US2013121801_AA

**Family:**

Publication number	Publication date	Application number	Application date
US2013121801 AA	20130516	US20120506005	20120320
US8939199 BB	20150127	US20120506005	20120320

Priority:

US20110629243P 20111115 US20120506005 20120320

Probable Assignee: TOM C GIPSON D B A NEW FORCE ENERGY**Assignee(s):** (std): GIPSON TOMMIE C ; RRI HOLDINGS INC**Assignee(s):** TOM C GIPSON D B A NEW FORCE ENERGY ; DRW TECHNOLOGIES LLC**Inventor(s):** (std): GIPSON TOMMIE C**Agent(s):** ELIZABETH R**19) Family number: 1522337** (US4135340A)

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Title: Modular drill rig erection systems

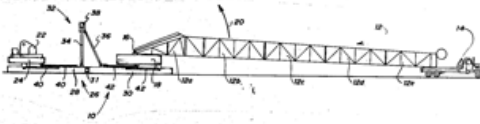
Abstract: A system for erecting elevated floors where a first support floor with a drawworks thereon is connected to one end of a base structure by two pair of parallel spaced pivotable links and a second support floor is coupled to the opposite end of the base structure and by two pair of parallel spaced pivotable links. In accordance with the invention a strong back is erected about midway of the length of the base forming a rigid frame and supporting elevated sheaves at each side of the base structure. A pair of cables are adapted to pass over said sheaves, one on each side of said base structure and connect first to said first floor for erection and then to said second floor for erection.

Classifications:**International (IPC 8-9):** E04H12/34 E21B15/00 (Advanced/Invention);

E04H12/00 E21B15/00 (Core/Invention)

International (IPC 1-7): E04H12/34 E21B15/00 E21C5/00**CPC:** E04H12/34 E21B15/00**European:** E04H12/34 E21B15/00**US:** 173/151 52/115 52/125.2

PatBase - US4135340_A

**Family:**

Publication number	Publication date	Application number	Application date
CA1065575 A1	19791106	CA19770280340	19770610

GB1574873 A	19800910	GB19770028754	19770708
JP53110901 A2	19780928	JP19770083641	19770714
US4135340 A	19790123	US19770775558	19770308

Priority:

US19770775558 19770308

Probable Assignee: GOLD FIELDS AMERICAN CORP

Assignee(s): (std): CHLORIDE GROUP LTD ; TEXAS INT

Assignee(s): TEXAS INTERNATIONAL CO ; TEXAS INT CO ; AMCON GROUP INC ; CHLORIDE GROUP LIMITED ; COX DAVID F ; GOLD FIELDS AMERICAN CORP ; HASHIMOTO TOM T ; SKYTOP BREWSTER CO

Inventor(s): (std): COX DAVID F ; HASHIMOTO TOM T ; DEIBUIDO FUAAMAN KATSUKUSU ; TAMU TSUYOSHI HASHIMOTO

20) Family number: 42769134 (US2009000218A)

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Title: LAND RIG

Abstract: A land rig including a mast, a substructure beneath the mast, the substructure having a top part, movement apparatus connected to the substructure, the movement apparatus connected to the mast, the movement apparatus for moving the mast and for moving the top part of the substructure. 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. It is submitted with the understanding that it will not be used to interpret or limit the scope or meaning of the claims, 37 CFR 1.72(b).

Classifications:

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

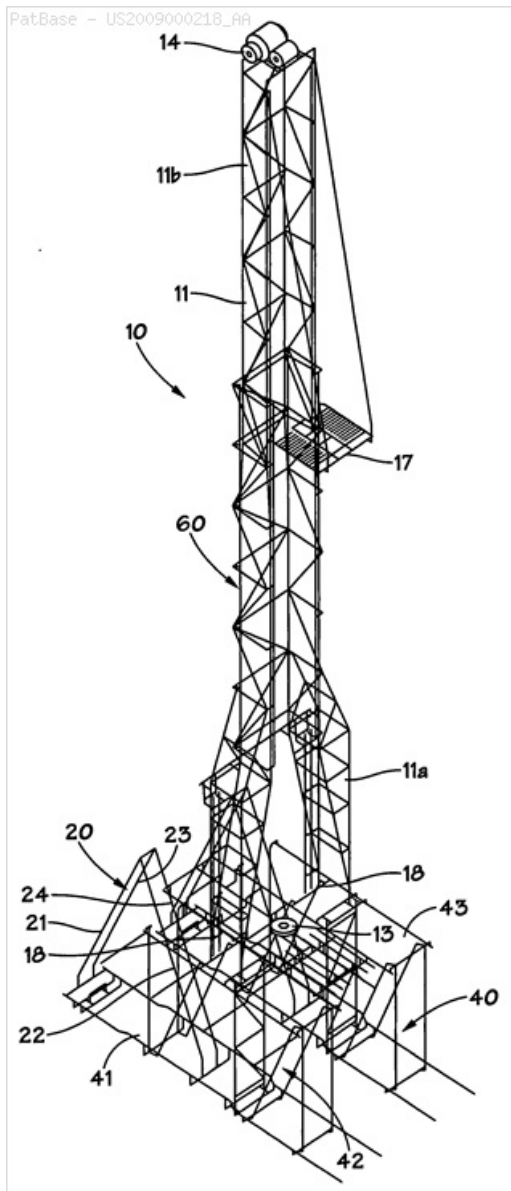
E21B15/04 (Advanced/Invention);

E04H12/00 E21B15/00 (Core/Invention)

CPC: E21B15/00

European: E21B15/00

US: 173/151 52/123.1



Family:

Publication number	Publication date	Application number	Application date
CA2703803 AA	20091211	CA20082703803	20080625
CA2703803 C	20140325	CA20082703803	20080625
CN101809248 A	20100818	CN200880022446	20080625
CN101809248 B	20150819	CN200880022446	20080625
CN103321581 A	20130925	CN201310254472	20080625
CN103321581 B	20151028	CN201310254472	20080625
US2009000218 AA	20090101	US20070823854	20070628
WO09001133 A2	20081231	WO2008GB50492	20080625

Priority:

US20070823854 20070628 CN200880022446 20080625 WO2008GB50492 20080625

Probable Assignee: VARCO I P

Assignee(s): (std): LEE DOUGLAS WAYNE ; LUCAS BRIAN RONALD ; MCCOO MARCUS SHERWIN ; NAT OILWELL VARCO L P ; NAT OILWELL VARCO LP ; NATIONAL OILWELL VARCO INC

Assignee(s): NATIONAL OILWELL VARCO L P ; VARCO I P ; NATIONAL OILWELL VARCO LP

Inventor(s): (std): LEE DOUGLAS WAYNE ; MCCOO MARCUS SHERWIN ; SHERWIN MCCOO MARCUS ; WAYNE LEE DOUGLAS

Agent(s): OSLER HOSKIN AND HARCOURT LLP; GUY MCCLUNG; LUCAS BRIAN RONALD

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

21) Family number: 28668024 (US6581698B)

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Title: DRILLING DEVICE AND METHOD FOR DRILLING A WELL

Abstract: A drilling machine for a drilling rig and a drilling rig which can be used for exploratory drillings and producing wells, particularly in hydrocarbon deposits, both onshore and offshore. The drilling machine includes a base, on or in which a top drive is displaceable axially to the longitudinal axis of the base and a pipe-handling apparatus which is movable, especially by sliding, perpendicularly to the longitudinal axis of the base and which grips the drilling pipe. The base is pivotably and/or rotatably mounted in the region of the foot, and it is possible for a virtually continuous drilling process to be carried out using a combination of two drilling machines.

Classifications:

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

E21B19/20 (Advanced/Invention);

E21B15/00 E21B19/00 (Core/Invention)

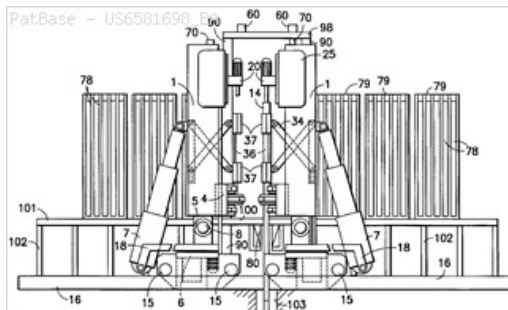
International (IPC 1-7): E21B E21B15/00 E21B19/00 E21B19/14

E21B19/15 E21B19/20 E21B7/02

CPC: E21B15/00 E21B19/20

European: E21B15/00 E21B19/20

US: 166/77.51 166/77.52 173/164 175/52 175/85



Family:

Publication number	Publication date	Application number	Application date
AT251711 E	20031015	AT19990952441T	19990819
AT254236 E	20031115	AT19990952442T	19990819
CA2344034 AA	20010313	CA19992344034	19990819
CA2344034 C	20080115	CA19992344034	19990819
CA2362866 AA	20010813	CA19992362866	19990819
CA2362866 C	20091215	CA19992362866	19990819
DE19837692 A1	20000302	DE19981037692	19980819
DE19837692 C2	20030403	DE19981037692	19980819
DE59907313 D1	20031113	DE19995007313	19990819
DE59907737 D1	20031218	DE19995007737	19990819
EP1105619 A2	20010613	EP19990952441	19990819
EP1105619 B1	20031008	EP19990952441	19990819
EP1108110 A2	20010620	EP19990952442	19990819
EP1108110 B1	20031112	EP19990952442	19990819
NO20010810 A	20010216	NO20010000810	20010216
NO20010810 A0	20010216	NO20010000810	20010216
NO20010810 L	20010216	NO20010000810	20010216
NO20010811 A	20010418	NO20010000811	20010216
NO20010811 A0	20010216	NO20010000811	20010216
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NO317594 B1	20041115	NO20010000811	20010216
NO320520 B1	20051212	NO20010000810	20010216
US6581698 BA	20030624	US20010763305	20010521
US6857483 BA	20050222	US20010763086	20010727
WO0011306 A2	20000302	WO1999DE02598	19990819
WO0011306 A3	20000413	WO1999DE02598	19990819
WO0011308 A2	20000302	WO1999DE02599	19990819
WO0011308 A3	20000525	WO1999DE02599	19990819

Priority:

DE19981037692 19980819 DE19981037692 19980819 DE19995007313 19990819
WO1999DE02598 19990819 DE19995007737 19990819 WO1999DE02599 19990819

Probable Assignee: BENETEC GMBH DRILLING AND OILFIELD SYSTEMS

Assignee(s): (std): BENETEC GMBH ; BENETEC GMBH DRILLING AND OILFIEL ; BENETEC GMBH DRILLING AND OILFIELD SYSTEMS ; DIRKS THORSTEN ; MOSS JOHANNES

Assignee(s): DIRKS THORSTEN MR

Inventor(s): (std): DIRKS THORSTEN ; MOSS JOHANNES

Agent(s): FETHERSTONHAUGH AND CO

Designated states: AT BE CA CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL NO PT SE US

22) Family number: 12057297 (US5755296A)

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Title: Portable top drive

Abstract: A portable top drive drilling unit that is a self-contained assembly of components adapted for quick installation in a drilling rig and which requires a minimum of modification to the rig structure.\!

Classifications:

International (IPC 8-9): E21B15/00 E21B3/02 (Advanced/Invention);
E21B15/00 E21B3/00 (Core/Invention)

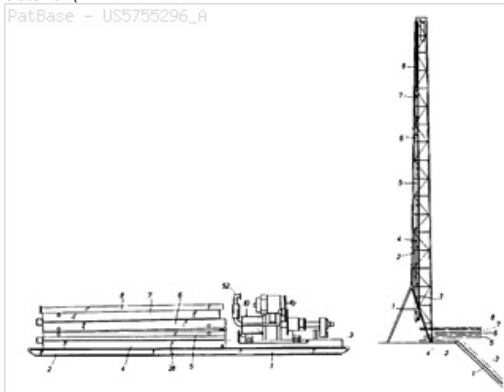
International (IPC 1-7): E21B15/00 E21B3/02 E21B3/04 E21B7/02

CPC: E21B15/00

European: E21B15/00

US: 173/213 175/162 175/195 175/220

PatBase - US5755296_A



Family:

Publication number	Publication date	Application number	Application date
CA2199475 AA	19970307	CA19952199475	19950913
CA2199475 C	20011127	CA19952199475	19950913
EP0777810 A1	19970611	EP19950933579	19950913
EP0777810 B1	20001108	EP19950933579	19950913
NO312976 B1	20020722	NO19970001121	19970311
NO971121 A	19970423	NO19970001121	19970311
NO971121 A0	19970311	NO19970001121	19970311
NO971121 L	19970423	NO19970001121	19970311
US5755296 A	19980526	US19940305177	19940913
US6024181 A	20000215	US19970839715	19970415
WO9608631 A1	19960321	WO19951B00904	19950913

Priority:

US19940305177 19940913 US19940305177 19940913 WO19951B00904 19950913
WO19951B00904 19950913 US19970839715 19970415

Probable Assignee: NABORS IND INC

Assignee(s): (std): HOPE ROBERT L ; NABORS IND INC ; RICHARDSON ALLAN S

Assignee(s): NABORS INDUSTRIES INC ; NABORS INDUSTRIES INC RICHARDSON ALLAN S ; NABORS IND

Inventor(s): (std): RICHARDSON ALLAN S ; HOPE ROBERT ; HOPE ROBERT L

Agent(s): KIRBY EADES GALE BAKER

Designated states: AT BE CA CH DE DK ES FR GB GR IE IT LU MC NL NO PT SE US

23) Family number: 43031815 (US2009071720A)

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Title: MOBILE LAND DRILLING RIG AND METHOD OF INSTALLATION

Abstract: A highly mobile and capable oil, gas and geothermal well drilling rig is shown which provides for the rapid placement, assembly, disassembly, and repositioning of various rig components of the drilling rig. The drilling rig includes a support base and working floor which is trailerable and which can be rapidly erected to a working height at the well site. A special drawworks trailer both transports the drawworks and the rig derrick. Hydraulic cylinders on the drawworks trailer are used to move the derrick from a horizontal, transport position to a vertical, working position. At the same time, the weight of the derrick is off-loaded from the drawworks trailer to the base support structure. The selection and arrangement of the various rig components provides a faster set up and take down operation than was previously obtained.

Classifications:

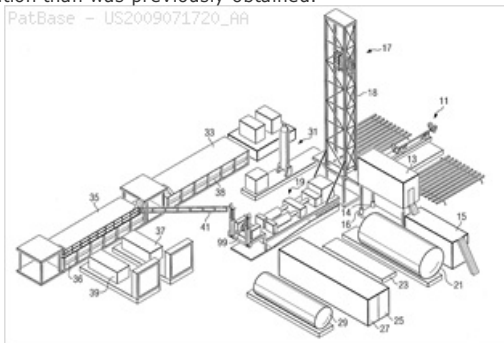
International (IPC 8-9): E21B19/00 E21B7/02 (Advanced/Invention);
E21B7/02 (Core/Invention)

CPC: E21B7/02

European: E21B7/02

US: 175/162 175/162S 175/52 175/57 175/57P 175/85

PatBase - US2009071720_AA



Family:

Publication number	Publication date	Application number	Application date
US2009071720 AA	20090319	US20080211208	20080916

Priority:

US20070973611P 20070919 US20080211208 20080916

Probable Assignee: MD COWAN INC**Assignee(s):** (std): COWAN MIKE D ; MD COWAN INC**Inventor(s):** (std): COWAN MIKE D**Agent(s):** WHITAKER CHALK SWINDLE AND SAWYER LLP; CHARLES D; STEPHEN S**24) Family number: 1191058 (FR2301682A)**

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Title: AUGER DRILL RIG - ON CRAWLER TRACK WITH FOUR DEGREES OF FREEDOM FOR DRILLING MAST MOVEMENT

Abstract: A portable auger drill rig consists of a crawler track on which a main chassis can swivel in the horizontal plane. A subchassis which can be extended from the main chassis carries supporting elements for a collapsible drilling mast. Powder cylinders are used to erect the mast at any desired angle and to swing it in a plane at right angles to the plain of erection. This enables boreholes to be drilled with an accuracy of 7.5 cm over a depth of 15 m as required for pipeline projects in Alaska. The rig can travel along the access route and then swing the drilling mast over to drill boreholes on either side or on it.

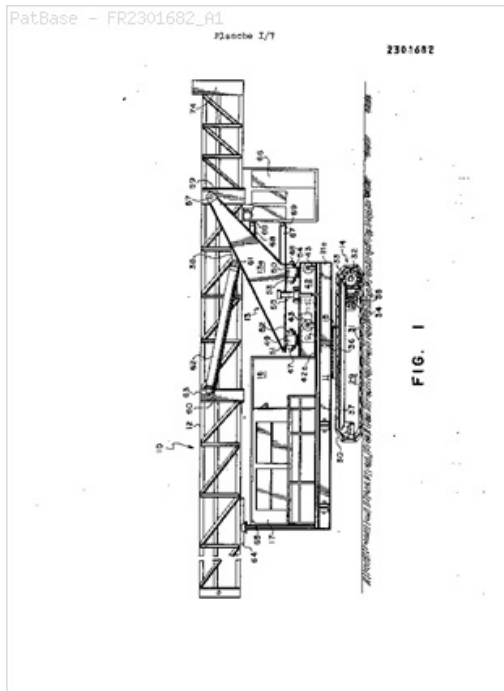
Classifications:**International (ipc 8-9):** E02F9/02 E21B15/04

E21B7/02 (Advanced/Invention);

E02F9/02 E21B15/00 E21B7/02 (Core/Invention)

International (ipc 1-7): B66F11/02 E02D17/14 E02D17/142

E21B15/00 E21B7/00 E21B7/02 E21C11/02

CPC: E02F9/028 E21B7/02 E21B15/04**European:** E02F9/02L E21B15/04 E21B7/02**Family:**

Publication number	Publication date	Application number	Application date
AU197610816 A1	19770811	AU19760010816	19760204
DE2607739 A1	19760902	DE19762607739	19760223
FR2301682 A1	19760917	FR19760004719	19760220
FR2301682 B3	19781110	FR19760004719	19760220
NO760119 A	19760825	NO19760000119	19760114
NO760119 L	19760825	NO19760000119	19760114
SE7602138 A	19760825	SE19760002138D	19760223

Priority:

US19750552618 19750224

Probable Assignee: DRESSER IND**Assignee(s):** (std): DRESSER IND**Assignee(s):** DRESSER IND INC ; DRESSER INDUSTRIES INC**Inventor(s):** (std): EDDY K H ; EDDY KENNETH HARMON ; MCGILL K H ; MCGILL KENNETH HARMON ; PARKE C J ; PARKER C J ; PARKER CURTIS JESS**Inventor(s):** HARMON EDDY KENNETH ; HARMON MCGILL KENNETH ; JESS PARKER CURTIS ; KENNETH HARMON EDDY ; KENNETH HARMON MCGILL ; CURTIS JESS PARKER