

Diego Gonzalez

1) Family number: 11315128 (US5299173A)

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Title: METHOD AND APPARATUS FOR UNDERWATER SONAR SCANNING

Abstract: A sonar buoy 40 has narrow-beam sonar heads 80, 82 driven by a stepper motor 84. The heads produce sonar data for example accurately measuring the seabed. The buoy is handled by a crane wire 41 held taut by a float above the buoy and attached to a clump weight 46 resting on the seabed (although shown in retracted condition). A wire 50 runs from a winch 48 around pulleys 52 on the weight 46 and is connected to a lever 54 of a gimbal mechanism 56 which has two transducers 62, 70 giving measurements of the "X" position and the "Y" position of the buoy. A footage mechanism 76 is driven by the wire 41 and has a transducer giving a measurement of the heave position. A compass 88 and roll and pitch transducers at 86 give measurements of the heading position and the roll and pitch positions. The sonar data is compensated for the position of the buoy using a computer.

Classifications:

International (IPC 8-9): G01S15/88 G01S15/89 G01S7/52 G01S7/521 G01S7/523 G01S7/526 (Advanced/Invention); G01S7/523 (Advanced/Non-invention)

International (IPC 1-7): B63B22/18 G01S15/00 G01S15/02 G01S15/08 G01S15/42 G01S15/88 G01S15/89 G01S7/52 G01S7/521 G01S7/523 G01S7/526

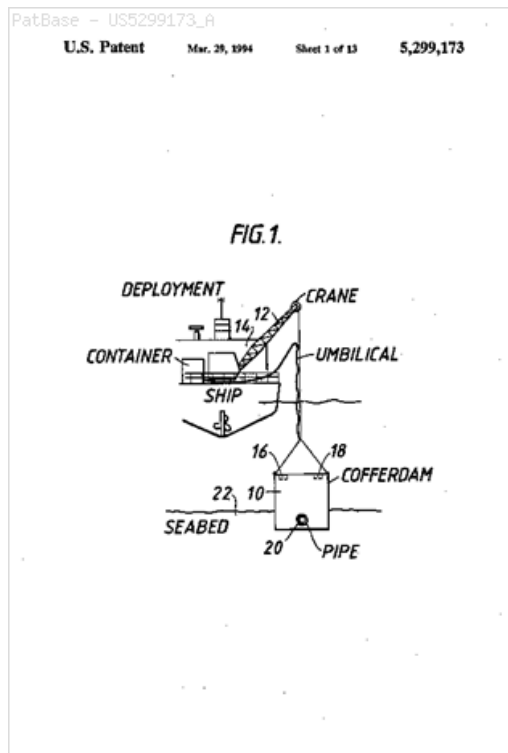
CPC: B63C11/52 B63G8/001 B63G2008/007 G01S7/52004 G01S7/521 G01S15/89

European: G01S15/89 G01S7/521 G01S7/52G

US: 367/12 367/88

JP F-Term: 5J083 5J083/AA01 5J083/AB08 5J083/AB20 5J083/AC07 5J083/AD03 5J083/AD05 5J083/AD15 5J083/AD17 5J083/AD30 5J083/AE06 5J083/AE10 5J083/AF01 5J083/AF14 5J083/AF20 5J083/AG07 5J083/AG20 5J083/BD01 5J083/CA11 5J083/CA31 5J083/CA32 5J083/CA33 5J083/CA35 5J083/CA36 5J083/CA37 5J083/CA40 5J083/CA42 5J083/EC18

JP F-Index: G01S15/86 G01S15/89/A G01S7/52/E G01S7/52/J G01S7/526/J



Family:

Publication number	Publication date	Application number	Application date
AU199186787 A1	19920507	AU19910086787	19911028
AU627123 B2	19920813	AU19910086787	19911028
CA2054657 AA	19920502	CA19912054657	19911031
CA2054657 C	19950606	CA19912054657	19911031
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DE69132748 D1	20011031	DE19916032748	19911015
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EP0483996 A2	19920506	EP19910309448	19911015
EP0483996 A3	19920701	EP19910309448	19911015
EP0483996 B1	19991201	EP19910309448	19911015
EP0757258 A1	19970205	EP19960201762	19911015
EP0757258 B1	20010926	EP19960201762	19911015
ES2140386 T3	20000301	ES19910309448T	19911015
ES2164831 T3	20020301	ES19960201762T	19911015
GB2249391 A1	19920506	GB19900023726	19901101
GB9023726 A0	19901212	GB19900023726	19901101
JP2543639 B2	19961016	JP19910288066	19911101
JP4307386 A2	19921029	JP19910288066	19911101
NO914249 A	19920504	NO19910004249	19911030
NO914249 A0	19911030	NO19910004249	19911030

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US5299173 A	19940329	US19910784324	19911031

Priority:

GB19900023726 19901101 EP19910309448 19911015 CA19912054657 19911031

Probable Assignee: LATTICE INTELLECTUAL PROPERTY LIMITED

Assignee(s): (std): BRITISH GAS PLC ; LATTICE INTELLECTUAL PROPERTY

Assignee(s): BRITISH GAS PLC RIVERMILL HOUSE ; LATTICE INTELLECTUAL PROPERTY LIMITED ; LATTICE INTELLECTUAL PROPERTY LTD ; LATTICE INTELLECTUAL PROPERTY LTD LONDON ; INGRAM ROBERT ; BG PLC ; BG PLC READING ; BG PUBLIC CO LTD ; BG PUBLIC LIMITED COMPANY

Inventor(s): (std): ROBAATO INGURAMU ; INGRAM ROBERT

Inventor(s): ROBERT INGRAM

Agent(s): GRIFFITH HACK; GOWLING LAFLEUR HENDERSON LLP

Designated states: BE DE ES FR GB IT NL

2) Family number: 40986121 (US2009095209A)

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Title: APPARATUS AND METHOD FOR OPERATING AUTONOMOUS UNDERWATER VEHICLES

Abstract: A method and apparatus of operating an autonomous underwater vehicle (AUV) may include receiving an AUV in a receptacle of a submersible station. The AUV and the submersible station may be launched to an underwater location. The AUV may engage with the submersible station before, after or during a mission, and may return to the same or a different submersible station after part, or all, of the mission has been completed.

Classifications:

International (IPC 8-9): B63C11/00 B63C11/34 B63C11/42 B63C11/52

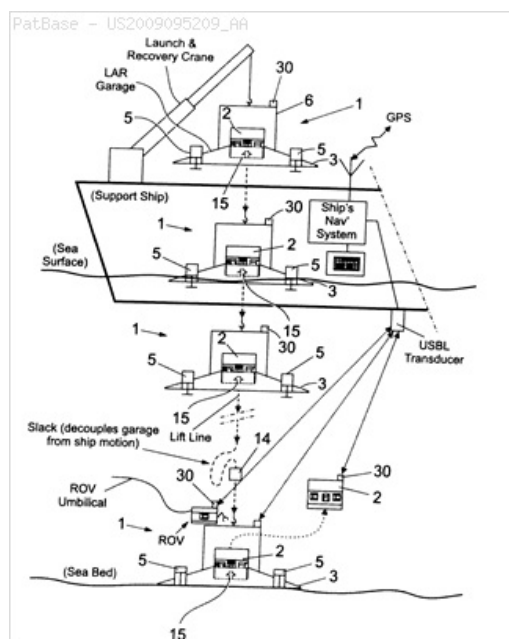
B63G8/00 B63G8/42 (Advanced/Invention);

B63C11/00 B63C11/52 B63G8/00 (Core/Invention)

CPC: B63C11/42 B63G8/001 B63G2008/008

European: B63C11/42 B63G8/00B

US: 114/312



Family:

Publication number	Publication date	Application number	Application date
AU2008229904 AA	20090430	AU20080229904	20081003
AU2008229904 BB	20130725	AU20080229904	20081003
BRPI0804239 A2	20090929	BR2008PI04239	20081010
BRPI0804239 B1	20200331	BR2008PI04239	20081010
GB200719946 A0	20071121	GB20070019946	20071012
GB200818193 A0	20081112	GB20080018193	20081006
GB2453645 A1	20090415	GB20080018193	20081006
GB2453645 B2	20120307	GB20080018193	20081006
NO20084141 A	20090414	NO20080004141	20081001
NO20084141 L	20090414	NO20080004141	20081001
NO339562 B1	20170102	NO20080004141	20081001
RU2008139965 A	20100420	RU20080139965	20081009
US2009095209 AA	20090416	US20080250913	20081014
US8109223 BB	20120207	US20080250913	20081014

Priority:

GB20070019946 20071012

Probable Assignee: SUBSEA 7 LTD

Assignee(s): (std): JAMIESON JAMES ANDREW ; SUBSEA 7 LTD

Assignee(s): SUBSEA7 LTD ; SUBSEA 7 LIMITED

Inventor(s): (std): JAMIESON JAMES ANDREW ; JAMES ANDREW JAMIESON

Agent(s): ALLENS ARTHUR ROBINSON PATENT AND TRADE MARKS ATTORNEYS; ALLENS PATENT AND TRADE MARK ATTORNEYS; PEPPER HAMILTON LLP; LEVY AND GRANDINETTI

Title: ATTACHMENT MECHANISMS FOR STABILIZATION OF SUBSEA VEHICLES

Abstract: Systems and methods for securing a remotely operated vehicle (ROV) to a subsea structure during cleaning, maintenance, or inspection of the structure surface are provided. In one or more embodiments, an attachment mechanism includes a pair of grasping hooks that are raised and lowered when driven by a motorized drive. In one or more embodiments, an attachment mechanism includes a rigid holder having a mechanical stop and connected to a swing arm, the swing arm configured to rotate inward, but not outward beyond the mechanical stop. In one or more embodiments, an attachment mechanism includes a plurality of linked segments in series, each connected at a plurality of pivot points. A pair of wires passes through the plurality of linked segments and connects to a pair of pulleys that extend or retract the wires, thereby rotating the plurality of linked segments.

Classifications:

International (IPC 8-9): B08B1/00 B08B3/02 B08B9/023 B23K31/12

B25J11/00 B25J15/00 B25J19/00 B25J5/00 B25J9/00 B63B21/02

B63B59/10 B63B9/00 B63C11/00 B63C11/42 B63C11/48 B63C11/52

B63G8/00 B63G8/14 B63G8/24 B63G8/42 B63H19/08 E21B41/04

F16H1/14 F16H1/16 F16H19/08 F16H35/18 F16H37/12 F16L1/26

F16L55/00 G01B17/02 G01N29/04 G01N29/22 (Advanced/Invention);

B62D57/00 B63H19/08 F16H1/16 F16H1/22 F16H37/04

F16L55/00 (Advanced/Non-invention)

CPC: B60Y2400/702 F16H1/222 B25J15/009 B25J19/00 B63G8/24

F16H1/16 F16H37/041 B08B1/00 B08B3/024 B08B9/023 B23K31/125

B63C11/52 B63G8/001 B63G8/14 B63G2008/002 B63G2008/005

F16L1/26 F16L1/265 G01N29/225 G01N2291/0234 G01N2291/2634

B25J9/0009 B25J11/00 B25J15/0019 B25J19/0075 B25J15/0009

B62D57/00 B63C11/42 B63G8/00 B63G8/42 B63G2008/008 F16H19/08

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US: 1/1 114/312 114/331 294/106 73/592

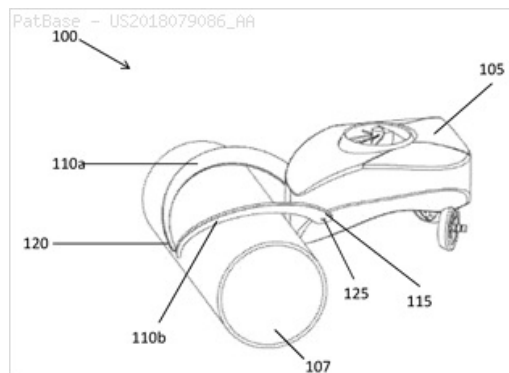
JP F-Term: 3D116 3D137 3C707 3C707/AS14 3C707/AS28 3C707/LV02 3H038 3J009 3J009/DA14 3J009/DA18 3J009/EA05

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3J062/AB27 3J062/AC07 3J062/CG95

JP F-Index: B63B9/00/Z B63C11/00/B B63C11/00/E B63C11/48/D B63C11/48/Z B63C11/00/A B63C11/00/D B63C11/00/G

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Family:

Publication number	Publication date	Application number	Application date
CN109715490 A	20190503	CN201780057568	20170920
CN109716004 A	20190503	CN201780057567	20170912
CN109716005 A	20190503	CN201780057834	20170918
CN110167838 A	20190823	CN201780052727	20170829
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EP3515809 A1	20190731	EP20170784076	20170920
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KR20190053197 A	20190517	KR20197008621	20170918
KR20190057332 A	20190528	KR20197011013	20170829
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SG11201901780X A1	20190328	SG20191101780	20170829
US2018079086 AA	20180322	US20170623565	20170615
US2018079475 AA	20180322	US20170675714	20170812
US2018080307 AA	20180322	US20170684102	20170823
US2018080904 AA	20180322	US20170677509	20170815
US2018080905 AA	20180322	US20170677575	20170815
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US2019084163 AA	20190321	US20180186917	20181112
US2019111572 AA	20190418	US20180217942	20181212
US2019344452 AA	20191114	US20190519905	20190723
US10124494 BB	20181113	US20170684102	20170823
US10131057 BB	20181120	US20170623565	20170615
US10183400 BB	20190122	US20170675714	20170812
US10369705 BB	20190806	US20180217942	20181212
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US10589432 BB	20200317	US20170677509	20170815
US10589433 BB	20200317	US20170677575	20170815
WO18057250 A1	20180329	WO2017US49011	20170829
WO18057344 A1	20180329	WO2017US51141	20170912
WO18057452 A2	20180329	WO2017US52005	20170918
WO18057452 A3	20180531	WO2017US52005	20170918
WO18057589 A1	20180329	WO2017US52447	20170920

Priority:

US20160397175P	20160920	US20170623565	20170615	US20170675714	20170812
US20170677509	20170815	US20170677575	20170815	US20170684102	20170823
WO2017US49011	20170829	WO2017US51141	20170912	WO2017US52005	20170918
WO2017US52447	20170920	US20180153295	20181005	US20180186917	20181112
US20180217942	20181212	US20190519905	20190723		

Probable Assignee: SAUDI ARABIAN OIL CO

Assignee(s): (std): ARAMCO SERVICES CO ; SAUD ARABAN OL CO ; SAUDI ARABIAN OIL CO ; SAUDI ARABIAN OIL CO LTD

Inventor(s): (std): ABDELLATIF FADL ; OUTA ALI ; ARAB ABDULLAH ; PATEL SAHEJAD ; TRIGUI HASSANE ; AL TAIE IHSAN ; AL NAHWI AMMAR ; ABDELLATF FADL ; TRGU HASSANE ; OUTA AL ; AL NAHW AMMAR ; AL TAE IHSAN

Agent(s): MEWBURN ELLIS LLP; LEASON ELLIS LLP; WERTS JARRYD ET AL; LEASON DAVID 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 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

4) Family number: 46624876 (US2010212573A)

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Title: REMOTELY OPERATED UNDERWATER VEHICLE

Abstract: A system for communicating with a remotely operated underwater vehicle (ROV) includes an ROV coupled to a surface buoy by a tether. A controller is coupled to a first wireless transceiver and a second wireless transceiver is attached to the surface buoy. Control signals are transmitted from the controller through the first wireless transceiver the second wireless transceiver on the surface buoy. The control signals are then transmitted through the tether to the ROV. Feedback and sensor signals are transmitted from the ROV through the wireless transceivers to the controller.

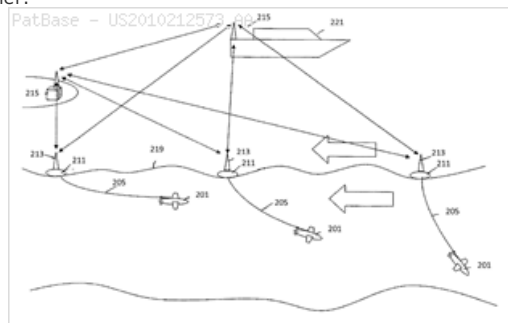
Classifications:

International (IPC 8-9): B63G8/00 B63G8/14 (Advanced/Invention)

CPC: B63B22/24 B63B2203/00 B63C11/42 B63B21/663 B63B2205/04 B63B2205/06

European: B63B22/24 B63C11/42 L63B203/00 L63B205/04 L63B205/06 L63B21/66B

US: 114/328 405/191 405/191S



Family:

Publication number	Publication date	Application number	Application date
US2010212573 AA	20100826	US20100712082	20100224
US2010212574 AA	20100826	US20100767984	20100427

Priority:

US20090155658P 20090226 US20100712082 20100224 US20100767984 20100427

Probable Assignee: BLUEFIN ROBOTICS CORP

Assignee(s): (std): HAWKES OCEAN TECHNOLOGIES

Assignee(s): HAWKES REMOTES INC ; BLUEFIN ROBOTICS CORP

Inventor(s): (std): HAWKES GRAHAM ; CHIAU CHARLES S

Agent(s): DERGOSITS AND NOAH LLP

5) Family number: 51756636 (US2012210926A)

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Title: DC POWERED ROV AND UMBILICAL

Abstract: A method of operating a remotely operated underwater vehicle (ROV) includes launching the ROV from a vessel into water; supplying a direct current (DC) power signal to the ROV from the vessel via an umbilical; and sending a first command signal to the ROV from the vessel via the umbilical while supplying the DC power signal.

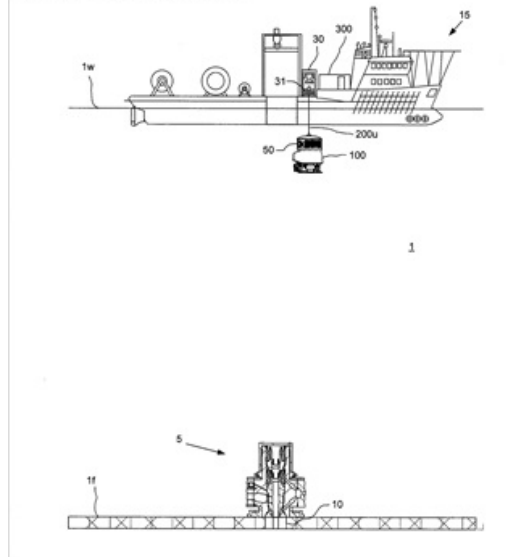
Classifications:

International (IPC 8-9): B63G8/00 B63G8/08 (Advanced/Invention)

CPC: B63C11/26 B63G8/001

European: B63C11/26 B63G8/00B

US: 114/312 114/312S 114/337

**Family:**

Publication number	Publication date	Application number	Application date
US2012210926 AA	20120823	US20110031048	20110218

Priority:

US20110031048 20110218

Probable Assignee:

A POWER GMBH

Assignee(s): (std):

FIELDER LANCE I ; STORM JR BRUCE H

Assignee(s):

A POWER GMBH

Inventor(s): (std):

FIELDER LANCE I ; STORM JR BRUCE H

6) Family number: 58580926 (WO15024080A8)

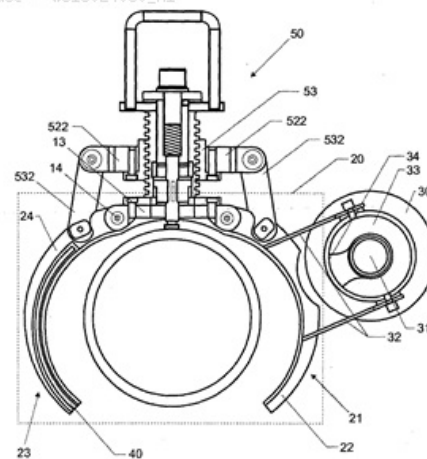
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Title: UNDERWATER ROV-OPERATED GAMMA-RAY EXAMINATION DEVICE

Abstract: The invention relates to a device for carrying out non-destructive inspections in oil transportation pipes located in deep and ultra-deep waters, in which the method used for detecting faults includes gamma-ray examination. The device essentially comprises a main body, a floating element and a chamber provided with LED lighting, and a moveable mechanical attachment unit, which holds and attaches the device to the pipe to be inspected. A basket containing an adapted source of radioactive pulses is attached to the first arm of the moveable mechanical attachment unit, and a radiation detector is attached to the second arm of the moveable mechanical attachment unit. Both the first and second arms are attached to the central body by an actuating system.

Classifications:**International (IPC 8-9):** G01N23/02 G01N23/04 (Advanced/Invention)**CPC:** G01N23/18 G01N2223/628 G01N2223/646 F17D5/00 F16L2101/30 G03B37/005 G03B2215/0567

PatBase - WO15024080_A1

**FIGURA 2****Family:**

Publication number	Publication date	Application number	Application date
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BR112015007089 A2	20170912	BR20151107089	20131017
WO15024080 A1	20150226	WO2013BR00426	20131017
WO15024080 A8	20150423	WO2013BR00426	20131017

Priority:

WO2013BR00426 20131017

Probable Assignee: PETROLEO BRASILEIRO S A PETROBRAS

Assignee(s): (std): ALVES MARINHO FERREIRA CARLA ; MARIANO DA FONSECA NEI JUNIOR ; PETROLEO BRASILEIRO S A PETROBRAS ; SOLIGO CAMERINI CLAUDIO

Assignee(s): PETROLEO BRASILEIRO PETROBRAS SA

Inventor(s): (std): SOLIGO CAMERINI CLAUDIO ; ALVES MARINHO FERREIRA CARLA ; MARIANO DA FONSECA NEI JUNIOR ; CARLA ALVES MARINHO FERREIRA ; CLAUDIO SOLIGO CAMERINI ; NEI MARIANO DA FONSECA JUNIOR

Inventor(s): NEIMARIANO DA FONSECA JUNIOR

Agent(s): FERNANDO DE CASTRO SA

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

7) Family number: 65471725 (US2018217067A)

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Title: SYSTEM FOR RAPID ASSESSMENT OF WATER QUALITY AND HARMFUL ALGAL BLOOM TOXINS

Abstract: The present invention is directed toward the early detection of harmful algal blooms. The system employs the ability of whole cell non-contact micro Raman spectroscopy to detect cell pigmentation in such a way that distinct patterns or fingerprints can be assembled. Light field microscopy will provide a fundamentally innovative increase in image and sample volume. Furthermore, darkfield microscopy is employed to capture high-resolution, color images of the detected plankton to increase the accuracy of species identification and classification. Together, this new instrument will provide a powerful yet elegantly simple solution to detection of HAB cells and characterization of environmental conditions.

Classifications:

International (IPC 8-9): G01J3/02 G01J3/28 G01J3/44 G01N21/65

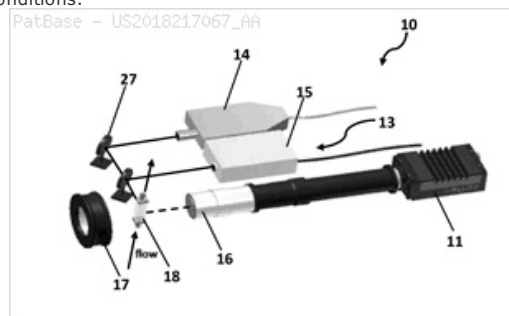
G01N21/85 G01N33/18 (Advanced/Invention);

G01J3/10 (Advanced/Non-invention)

CPC: G01J3/0248 G01J3/0294 G01J3/44 G01J2003/102 G01N21/65 G01N21/8507 G01N33/18 G01N33/1826 G01N2201/0218 G01N2201/0221 G01J2003/104 G01J3/0208 G01J3/10 G01J3/28 G01N15/1434

G01N15/1475 G01N2015/1006

US: 1/1 356/301



Family:

Publication number	Publication date	Application number	Application date
US2018217067 AA	20180802	US20160747812	20161014
US2019293565 AA	20190926	US20190441799	20190614
US10337997 BB	20190702	US20160747812	20161014
US10488344 BB	20191126	US20190441799	20190614
WO17066544 A1	20170420	WO2016US57006	20161014

Priority:

US20150241835P 20151015 US20160747812 20161014 WO2016US57006 20161014

US20180747812 20180126 US20190441799 20190614

Probable Assignee: WOODS HOLE OCEANOGRAPHIC INSTITUTION

Assignee(s): (std): GALLAGER SCOTT M ; WOODS HOLE OCEANOGRAPHIC INST

Assignee(s): WOODS HOLE OCEANOGRAPHIC INSTITUTION

Inventor(s): (std): GALLAGER SCOTT M

Agent(s): KEAN MILLER LLP; RICCI ROBERT DEVIN; PRIMEAUX RUSSEL O; HENDRICKS GABRIEL L

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 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

8) Family number: 32573749 (BRPI0401727B)

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Title: SISTEMA DE RISER AUTO SUSTENTADO E METODO DE INSTALACAO DO MESMO

Abstract: Source: BRPI0401727B [PT] RESUMO SISTEMA DE RISER AUTO SUSTENTADO E METODO DE INSTALACAO DO MESMO E descrito um sistema de riser (100) auto sustentado, para Sistema 5 Antecipado de Producao (SAP) ou Teste de Longa Duracao (TLD) em producao de petroleo submarina utilizando ANM acoplada a uma cabeca de poço e Unidade Flutuante de Producao (UFP), o dito sistema compreendendo uma cabeca de poço (10) no fundo do mar, conectada a uma ANM (20) dotada de

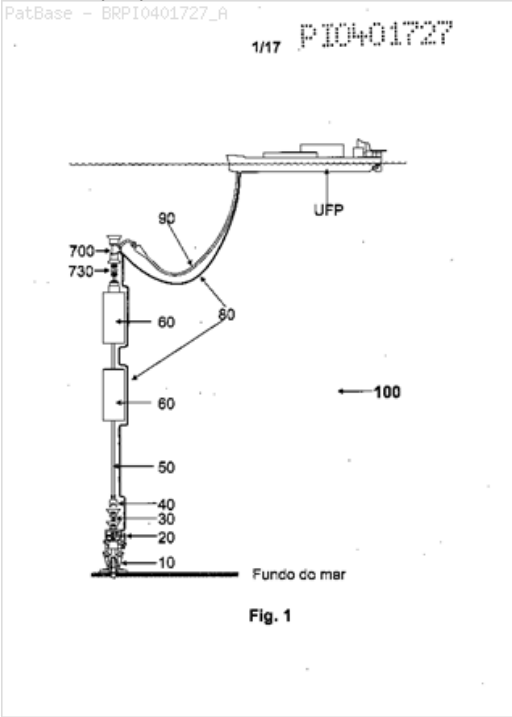
preventor (BOP de workover) (30), dito 10 preventor (30) sendo conectado a um riser (50) de producao atraves de uma ferramenta de conexao (40). O riser (50), montado internamente a um conjunto de boias (60), e mantido tracionado com auxilio desse conjunto de boias. A extremidade superior do riser (50) e dotada de um Terminal de Intervencao Submarina (700), dito Terminal sendo interligado a uma UFP 15 atraves de um jumper flexivel (90) para carrear o oleo produzido para essa UFP. Sao igualmente descritas duas modalidades do metodo de instalacao do sistema de riser (100) auto-sustentado.

Classifications:

International (IPC 8-9): E21B7/12 (Advanced/Invention);

E21B7/12 (Core/Invention)

International (IPC 1-7): E21B7/12



Family:

Publication number	Publication date	Application number	Application date
BRPI0401727 A	20060103	BR2004PI01727	20040511
BRPI0401727 B1	20160315	BR2004PI01727	20040511

Priority:

BR2004PI01727 20040511

Probable Assignee: PETROLEO BRASILEIRO SA

Assignee(s): (std): PETROLEO BRASILEIRO SA

Assignee(s): PETROLEO BRASILEIRO S A PETROBRAS ; PETROLEO BRASILEIRO PETROBRAS SA

Inventor(s): (std): ROVERI FRANCISCO EDWARD ; PAULO CEZAR AUGUSTO SILVA ; RODRIGUES ROBERTO ; MANSANO RENATO BRANDAO ; PEREIRA CARLOS ALBERTO GIACOMI ; PEREIRA CARLOS ALBERTO GIACOMIM

Inventor(s): FRANCISCO EDWARD ROVERI ; CEZAR AUGUSTO SILVA PAULO ; ROBERTO RODRIGUES ; RENATO BRANDAO MANSANO ; CARLOS ALBERTO GIACOMIM PEREIRA

9) Family number: 12315003 (JP11014784A)

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Title: REACTOR INTERNAL INSPECTING DEVICE

Abstract: PROBLEM TO BE SOLVED: To approach an inspecting means to an inspecting part to perform an inspection even in a place where the insertion of the inspecting means is difficult by providing a rotatable arm mechanism on an underwater remote control vehicle(ROV), and providing various inspecting means on one top end of the arm mechanism and a counter float on the other end. SOLUTION: This device is provided with an inspecting device body 10 which comprises a camera unit 2 set in the front part of a ROV body 1 so as to be capable of elevating and rotating, an arm mechanism 3 fixed to the body 1 side surface in such a manner as to be rotatable around horizontal axial line, an X-Y scanner 4 erected on the arm mechanism 3, and an inspecting means 5 loaded thereon in such a manner as to be movable within the X-Y plane and attachable/detachable. The body 1 is provided with a float 23 fixed to a pressure case, a thruster 24 for longitudinal movement and rotation, and a thruster for raising/lowering and horizontal movement. The output is performed by the signal output from a control device 121 connected to a relay box 11 and cables 13, 14. A device operating joy stick 122, an ultrasonic flaw detector 123 or the like is connected to the device 121.

Classifications:

International (IPC 8-9): B25J5/00 G01N21/84 G01N21/88 G01N21/954

G01N27/90 G01N29/26 G21C17/08 G21C19/02 (Advanced/Invention);

B25J5/00 G01N21/84 G01N21/88 G01N27/90 G01N29/26 G21C17/08

G21C19/02 (Core/Invention)

International (IPC 1-7): B25J5/00 G01N21/84 G01N21/88 G01N27/90

G01N29/26 G21C17/08 G21C19/02

JP F-Term: 2G047 2G047/AC01 2G047/DB12 2G047/GA06 2G047/GA20

2G047/GA21 2G047/GJ02 2G051 2G051/AA83 2G051/AB02 2G051/CA04

2G051/CB01 2G051/DA03 2G051/DA07 2G051/GA01 2G051/GC04 2G053

2G053/AA11 2G053/AA14 2G053/AB21 2G053/BA21 2G053/DB05

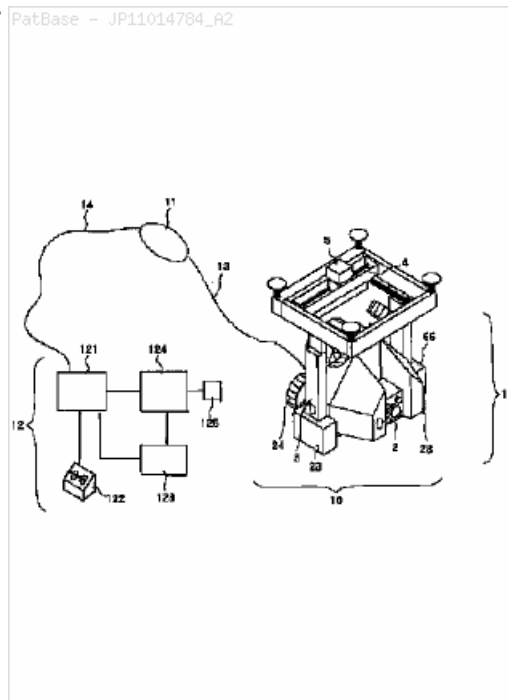
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2G075/EA01 2G075/FA13 2G075/FC03 2G075/FC14 2G076 3C007

3C007/AS14 3C007/AS27 3C007/AS28 3C007/CS08 3C007/CY00

3C007/HS27 3C007/HT02 3C007/HT24 3C007/JS01 3C007/KS20

3C007/KS36 3C007/KV01 3C007/KX02 3C007/WA11 3C007/WA27 3C707
 3C707/AS14 3C707/AS27 3C707/AS28 3C707/CS08 3C707/CY00
 3C707/CY25 3C707/HS27 3C707/HT02 3C707/HT24 3C707/JS01
 3C707/KS20 3C707/KS36 3C707/KV01 3C707/KX02 3C707/WA11
 3C707/WA27 3F060 3F060/AA09 3F060/CA11 3F060/CA23 3F060/DA02
 3F060/EB02 3F060/EB06 3F060/GA13 3F060/GB19
JP F-Index: B25J5/00/Z G01N21/84/B G01N21/88/C G01N21/88/640/B
 G01N21/954 G01N21/954/B G01N27/90 G01N29/26/501 G01N29/265
 G01N29/28 G21C17/08 G21C19/02/J G21C19/02/050



Family:

Publication number	Publication date	Application number	Application date
JP11014784 A2	19990122	JP19970163664	19970620

Priority:

JP19970163664 19970620

Probable Assignee: HITACHI LTD

Assignee(s): (std): HITACHI LTD

Inventor(s): (std): NAKAHARA HIROTAKA ; MABUCHI YASUHIRO ; SASAKI TSUKASA

10) Family number: 51626665 (BRPI0902810A)

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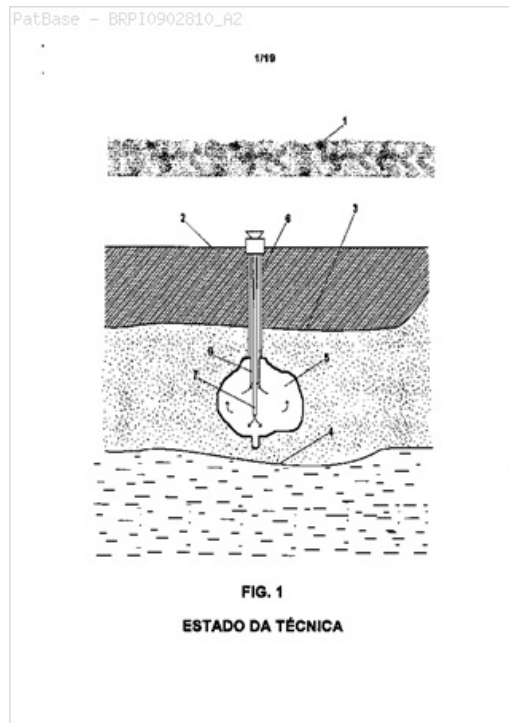
Title: mEtodo para construCCo de carvernas submarinas em rochas salinas Method of construCCo carvernas underwater rock salt (Machine translation)

Abstract: Source: BRPI0902810A [PT] METODO DE CONSTRUCCO DE CAVERNAS SUBMARINAS EM ROCHAS SALINAS, A presente invencao se refere a um metodo de construcao de cavernas submarinas em rochas salinas que reduz o uso de sondas maritimas. O referido metodo compreende as etapas de perfuracao de um ou mais pocos; instalacao de duas colunas no poço, sendo uma para injecao de agua e a outra para retorno de salmoura; circulacao de agua para dissolver o sal; reducao do comprimento da coluna de injencao de agua e avaliacao da geometria da caverna, sendo que as etapas de circulacao de agua para dissolver o sal e de reducao do comprimento da coluna de injencao de agua dispensam o uso de embarcacoes dotadas de sonda maritima, fazendo uso de outros meios adequados de menor custo.

Machine translation: CONSTRUCCO METHOD OF UNDERWATER CAVES IN ROCKS SALINAS, the present invention relates to a method of construction of underwater caves in salt rock which reduces the use of maritime probes. Said method comprises the steps of drilling one or more wells; installation in the well of two columns, one for water injection and the other for return of brine, circulation of water to dissolve the salt, the reduction length of the column of injencao water and evaluation of the geometry of the cavern, and the steps of circulating water to dissolve the salt and reducing the length of the column of water injencao require the use of vessels equipped with probe maritima, using other appropriate means to lower cost.

Classifications:

International (IPC 8-9): B65G5/00 E21B43/00
 E21B43/40 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
BRPI0902810 A2	20120724	BR2009PI02810	20090831

Priority:

BR2009PI02810 20090831

Probable Assignee: PETROLEO BRASILEIRO SA

Assignee(s): (std): PETROLEO BRASILEIRO SA

Assignee(s): PETROLEO BRASILEIRO S A PETROBRAS

Inventor(s): (std): DA COSTA ALVARO MAIA ; DOS SANTOS AMARAL CLAUDIO ; RODRIGUES ROBERTO ; FALCAO JOSE LUIZ ; POIATE EDGARD JR

Inventor(s): ALVARO MAIA DA COSTA ; JOSE LUIZ FALCAO ; CLAUDIO DOS SANTOS AMARAL ; ROBERTO RODRIGUES ; EDGARD POIATE JR

11) Family number: 62006399 (US2017293217A)

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Title: CONTINUOUS PARTICLE IMAGING AND CLASSIFICATION SYSTEM

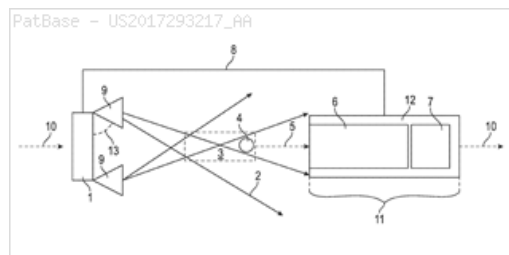
Abstract: The innovative systems and methods described herein use a high-resolution imaging microscope for capturing images of marine microorganisms and particles in situ in an aquatic environment. Using darkfield illumination, high-resolution images may be obtained, capturing features of the microorganism or particle as small as 10 micro m in remarkable clarity. Utilizing an open flow-through approach in sample imaging, the delicate structures of the plankton and particles may be imaged completely intact without damage and in their natural orientation. The images can be classified at high accuracy based on physiological and morphological in-formation captured in the image including features as fine as 1 micro m. The disclosed classification method utilizes adaptable training sets of taxonomic categories and a novel method of discerning in-focus targets, providing a highly accurate identification system.

Classifications:

International (IPC 8-9): A01K61/90 G02B13/22 G02B27/00 G03B15/03 G03B17/08 G03B35/02 G03B41/00 G06K9/00 (Advanced/Invention); G06K9/32 (Advanced/Non-invention)

CPC: G03B17/08 G02B27/0006 G02B13/22 G03B15/03 G06K9/00134 G06K9/00147 G03B41/00 A01K61/90 G03B2215/0575 G06K9/00127 G06K9/3241

US: 1/1 382/110



Family:

Publication number	Publication date	Application number	Application date
US2017293217 AA	20171012	US20150512893	20150921
US10222688 BB	20190305	US20150512893	20150921
WO16048851 A1	20160331	WO2015US51121	20150921

Priority:

US20140053484P 20140922

US20150512893 20150921

WO2015US51121 20150921

Probable Assignee: WOODS HOLE OCEANOGRAPHIC INSTITUTION

Assignee(s): (std): GALLAGER SCOTT M ; WOODS HOLE OCEANOGRAPHIC INST

Assignee(s): WOODS HOLE OCEANOGRAPHIC INSTITUTION

Inventor(s): (std): GALLAGER SCOTT M

Agent(s): ENGLER JESSICA C ; PRIMEAUX RUSSEL O ; KEAN MILLER 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

12) Family number: 29391839 (GB2405883A)

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Title: Wellhead cap with corrosion inhibitor

Abstract: A protective cap 1 for a subsea wellhead 10 has an integral supply of corrosion inhibitor fluid. The fluid may be located in a bladder 2, and is released by a remote system such as a remotely operated vehicle or ROV. The fluid is preferably released by the removal of a release pin 6, which allows a weight 4 to apply force due to gravity on the bladder. The fluid is displaced through a flexible tube 7 into the interior of the wellhead. The fluid may be coloured and have a lower specific gravity than that of the surrounding seawater. It will therefore pass upwards and become captured under the apparatus on both the inside and outside surfaces of the subsea wellhead. A window 8 can then provide a visual indication that the fluid has been released.

Classifications:

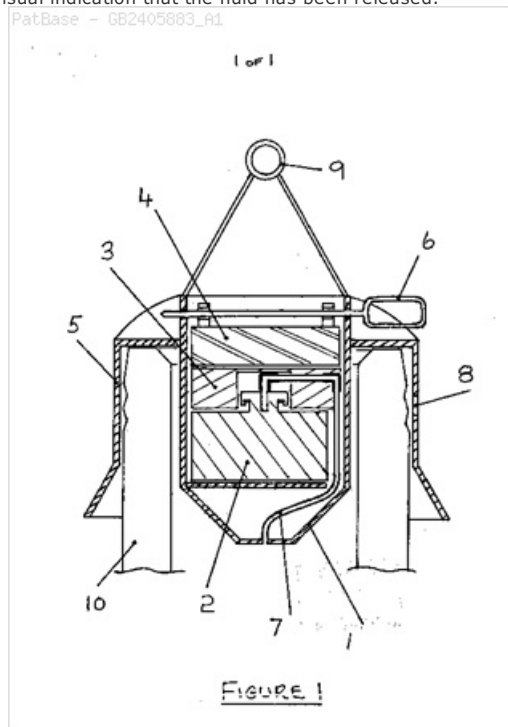
International (IPC 8-9): E21B33/037 (Advanced/Invention);

E21B33/03 (Core/Invention)

International (IPC 1-7): E21B33/037

CPC: E21B33/0375

European: E21B33/037B



Family:

Publication number	Publication date	Application number	Application date
GB200321503 A0	20031015	GB20030021503	20030913
GB2405883 A1	20050316	GB20030021503	20030913

Priority:

GB20030021503 20030913

Probable Assignee: HANDLEY TIMOTHY M C

Assignee(s): (std): HANDLEY TIMOTHY M C ; HANDLEY TIMOTHY MARK COLLINS

Assignee(s): TIMOTHY MARK COLLINS HANDLEY

Inventor(s): (std): HANDLEY TIMOTHY MARK COLLINS

Inventor(s): TIMOTHY MARK COLLINS HANDLEY

13) Family number: 51961341 (US2012241160A)

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Title: OIL WELL IMPROVEMENT SYSTEM

Abstract: Two functionally and physically integrated subsystems form a supplemental disaster preventive system for offshore oil wells. A multi-function well subsystem modifies the sea-floor and in-well equipment to provide maintenance access, tools to cap the well, seal/re-seal the well, drill/re-drill the well, kill the well from the top, improve BOP reliability, add BOP functional redundancy, improve the cementing process, incorporate a sea-floor pressure relief/diversion function and improve the well's life cycle safety. A dome top cylindrical sidewall structure encloses the well's sea-floor equipment providing improved structural

strength as well as passive protection from natural/human induced disasters. An intrusion detection and response subsystem provides sensing, processing and communication devices to detect, track and classify the 3D aspects of air/surface/sub-surface objects around a specific oil well or group of oil wells and provides the means to evaluate and eliminate threats.

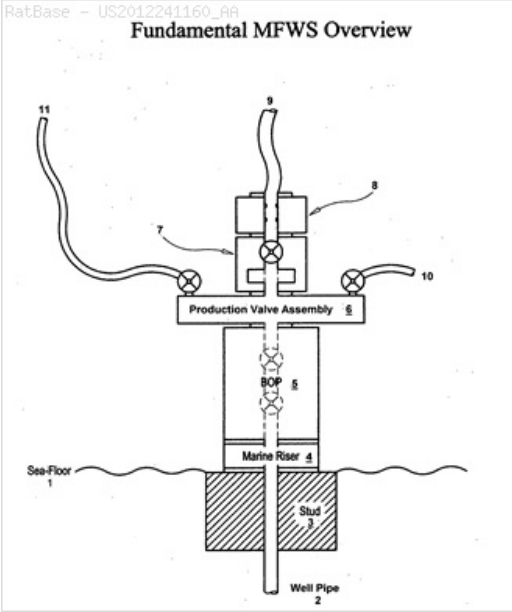
Classifications:

International (IPC 8-9): E21B17/00 E21B17/046 E21B29/00 E21B29/12 E21B33/037 E21B33/06 E21B34/06 E21B43/01 E21B43/36 E21B44/00 E21B47/00 E21B47/12 G05B9/02 (Advanced/Invention)

CPC: E21B17/003 G05B9/02 G01S7/41 E21B33/0355 F42B15/01 G01S7/38 G01S7/539 G01S13/04 G01S13/06 G01S15/04 G01S15/06 H01Q15/145 E21B17/046 E21B29/007 E21B33/037 E21B33/06 E21B43/0122

European: E21B29/00R4 E21B33/037 E21B33/06

US: 1/1 166/338 166/348 166/363 166/364 700/275



Family:

Publication number	Publication date	Application number	Application date
US2012241160 AA	20120927	US20110330668	20111219
US2015337642 AA	20151126	US20150720911	20150525
US9085950 BB	20150721	US20110330668	20111219
US9772608 BB	20170926	US20150720911	20150525

Priority:

US20100459895P 20101220 US20110330668 20111219 US20150720911 20150525

Probable Assignee:

SPACEK JOE

Assignee(s): (std):

SPACEK JOE

Inventor(s): (std):

SPACEK JOE