

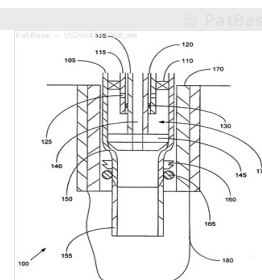
1) Family number: 28448456 (US2004244968A)

EXPANDING A TUBULAR MEMBER

Abstract: Source: US2004244968A A tubular member is expanded by pressurizing an interior region within the tubular member.

Probable Assignee: ENVENTURE GLOBAL TECHNOLOGY INC

Earliest Publication Date: 19970912



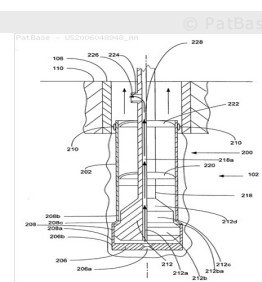
2) Family number: 32682628 (US2006048948A)

ANCHOR HANGERS

Abstract: Source: US2006048948A A method and an apparatus for forming casing in a borehole.

Probable Assignee: ENVENTURE GLOBAL TECHNOLOGY

Earliest Publication Date: 20010118



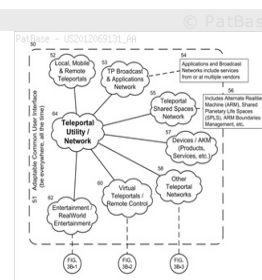
3) Family number: 50017914 (US2012069131A)

REALITY ALTERNATE

Abstract: Source: US2012069131A Among other things, we describe a reality alternative to our physical reality, named the Expandaverse, that includes multiple digital realities that may be continuously created, broadcast, accessed, and used interactively. In what we call an Alternate Reality Teleportal Machine (ARTPM), some elements of the digital reality(ies) can be implemented using and providing functions that include: devices, architectures, processing, sensors, translation, speech recognition, remote controls, subsidiary devices usage, virtual Teleportals on alternate devices, presence, shared planetary life spaces, constructed digital realities, reality replacements, filtered views, data retrieval in constructed views, alternate realities machine(s), multiple identities, directories, controlled boundaries, life space metrics, boundaries switching, property protection, publishing/broadcasting, digital events, events location/joining, revenues, utility(ies), infrastructure, services, devices management, business systems, applications, consistent customizable user interface, active knowledge, optimizations, alerts, reporting, dashboards, switching to "best", marketing and sales systems, improvement systems, user chosen goals, user management, governances, digital freedom from dictatorships, photography, and entertainment.

Probable Assignee: ABELOW DANIEL H

Earliest Publication Date: 20111201



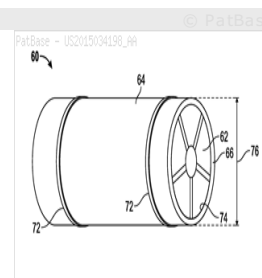
4) Family number: 58446503 (US2015034198A)

PIPELINE LEAK SEALING SYSTEM AND METHOD

Abstract: Source: US2015034198A A method for sealing a leak in a pipeline used to transport fluid includes positioning a sealing device within the pipeline, moving the sealing device through the pipeline to a leak location, and internally generating an inflation pressure to inflate the sealing device to substantially cover a leak opening and limit release of the fluid from the pipeline.

Probable Assignee: ELWHA LLC

Earliest Publication Date: 20150205



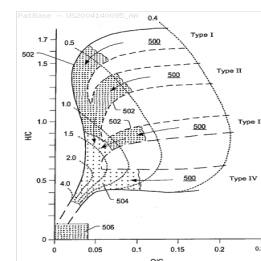
5) Family number: 30544271 (US2004140095A)

STAGED AND/OR PATTERNED HEATING DURING IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION

Abstract: Source: US2004140095A A method for treating a hydrocarbon containing formation is described. The method for treating a hydrocarbon containing formation may include heating a first volume of the formation using a first set of heaters. A second volume of the formation may be heated using a second set of heaters. The first volume may be spaced apart from the second volume by a third volume of the formation. The first volume, second volume, and/or third volume may be sized, shaped, and/or located to inhibit deformation of subsurface equipment caused by geomechanical motion of the formation during heating.

Probable Assignee: SHELL OIL CO

Earliest Publication Date: 20040506



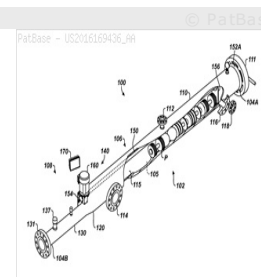
6) Family number: 62650646 (US2016169436A)

AUTOMATED PIG LAUNCHING SYSTEM

Abstract: Source: US2016169436A A pigging system has an apparatus for launching one or more pigs into a process flow. The apparatus has a housing with a chamber, an inlet, and an outlet. The inlet receives the one or more pigs into the chamber and is sealable. The outlet is in sealed communication with the process flow and passes the one or more pigs out of the chamber to the process flow. A portion of the chamber is in communication with the process flow. A guide disposed in the chamber guides the one or more pigs in the chamber, and an actuator mechanically feeds the one or more pigs guided by the guide to the outlet.

Probable Assignee: WELDFIT CORP

Earliest Publication Date: 20160616



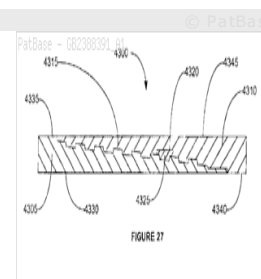
7) Family number: 31809439 (GB2388391A)

CONNECTION OF EXPANDABLE TUBULARS

Abstract: Source: GB2388391A An apparatus for lining a borehole includes first (4305) and second (4310) tubular members coupled to the borehole by expansion. The tubulars are coupled to one another by a threaded connection (4315), possibly of pin and box design. The connection includes seals (4325).

Probable Assignee: SHELL INT RESEARCH

Earliest Publication Date: 20031112



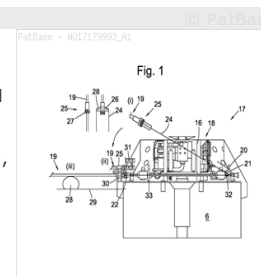
8) Family number: 67244399 (WO17179993A1)

TIE IN OF PIPELINE TO SUBSEA STRUCTURE

Abstract: A subsea structure 18 includes a support 6 in the form of a foundation or a supporting structure mounted to a foundation and being for transferring loads to the foundation. A method for installing a pipeline 19 at such a subsea structure 18 includes: providing the support 6 with a pull-in point 22 at a proximal location, wherein the proximal location is at a first side of the support 6; providing the support 6 with a strong point 20 at a distal location, wherein the distal location is spaced apart from the proximal location and there is a straight clear path between the pull-in point 22 and the strong point 20, this clear path bridging some of or all of a width of the support 6; passing a pull down wire 24 through a guide 21 at the strong point 20 and using the pull down wire 24 to pull in the pipeline 19; laying down the pipeline 19 and passing the pull down wire 24 along the clear path; and continuing the laying down and/or pulling in until a tie -in head 25 of the pipeline 19 is at a required location at the pull-in point 22.

Probable Assignee: STATOIL PETROLEUM AS

Earliest Publication Date: 20171019



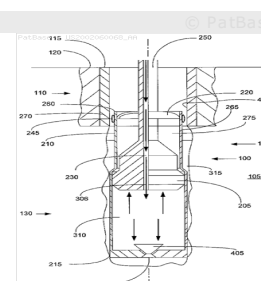
9) Family number: 31809425 (US2002060068A)

FORMING A WELLBORE CASING WHILE SIMULTANEOUSLY DRILLING A WELLBORE

Abstract: Source: US2002060068A A wellbore casing is formed simultaneously with the drilling out of the wellbore.

Probable Assignee: ENVENTURE GLOBAL TECHNOLOGY LLC

Earliest Publication Date: 20001207



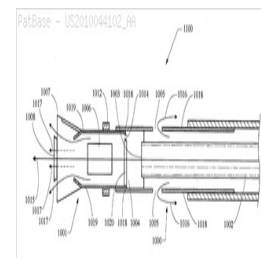
10) Family number: 44432240 (US2010044102A)

METHODS AND APPARATUS FOR REMOVAL AND CONTROL OF MATERIAL IN LASER DRILLING OF A BOREHOLE

Abstract: Source: US2010044102A There is provided a system, apparatus and methods for removal of material for the path of a laser beam during laser drilling of a borehole and for removal of displaced borehole material from the borehole during laser drilling. In particular, there are provided paths, dynamics and parameters of fluid flows, and apparatus for obtaining such, for use in conjunction with a laser bottom hole assembly.

Probable Assignee: FORO ENERGY INC

Earliest Publication Date: 20100225



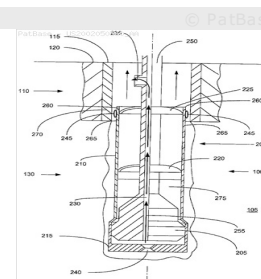
11) Family number: 31809428 (US2002050360A)

FORMING A WELLBORE CASING WHILE SIMULTANEOUSLY DRILLING A WELLBORE

Abstract: Source: US2002050360A A wellbore casing is formed simultaneously with the drilling out of the wellbore.

Probable Assignee: ENVENTURE GLOBAL TECHNOLOGY LLC

Earliest Publication Date: 20000825



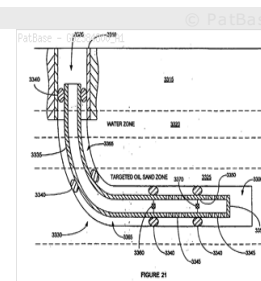
12) Family number: 31809442 (GB2384800A)

OBTAINING FLUID FROM A MULTIZONE WELL

Abstract: Source: GB2384800A An apparatus for obtaining fluid from a multizone well includes primary solid tubulars (3335) with associated external seals (3340) positioned in the well. n slotted tubulars (3345) are positioned within the wellbore and coupled to the primary solid tubulars (3335). n-1 intermediate solid tubulars (3350) positioned in wellbore are coupled to and interweaved among the slotted tubulars (3345) where each of the intermediate solid tubulars (3350) includes external seals (3340). A shoe (3355) is coupled to one of the slotted tubulars (3345) and some of the tubulars are plastically deformed in the well.

Probable Assignee: SHELL INT RESEARCH

Earliest Publication Date: 20030806



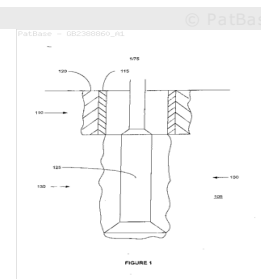
13) Family number: 31809438 (GB2388860A)

INSERTING A TUBULAR MEMBER INTO A WELLBORE

Abstract: Source: GB2388860A A tubular member is coated with a lubricating fluid, e.g. a drilling mud lubricant, to facilitate its placement in a wellbore and to reduce surge pressures.

Probable Assignee: SHELL INT RESEARCH

Earliest Publication Date: 20031126



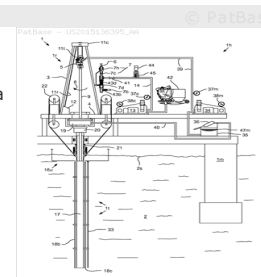
14) Family number: 59282848 (US2015136395A)

TELEMETRY OPERATED CEMENTING PLUG RELEASE SYSTEM

Abstract: Source: US2015136395A A plug release system for cementing a tubular string into a wellbore includes: a wiper plug; a tubular housing; a latch for releasably connecting the wiper plug to the housing. The latch includes: a fastener engageable with one of the wiper plug and the housing; a lock movable between a locked position and an unlocked position, the lock keeping the fastener engaged in the locked position; and an actuator connected to the lock and operable to at least move the lock from the locked position to the unlocked position. The plug release system further includes an electronics package disposed in the housing and in communication with the actuator for operating the actuator in response to receiving a command signal.

Probable Assignee: WEATHERFORD LAMB INC

Earliest Publication Date: 20150518



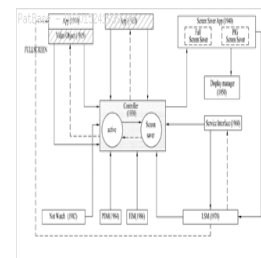
15) Family number: 60169492 (US2015241939A)

DIGITAL DEVICE AND METHOD OF PROCESSING SCREENSAVER THEREOF

Abstract: Source: US2015241939A A digital device and a method of processing screensaver application in the digital device are disclosed. The digital device includes a manager to manage a display window of the digital device and to generate and to transmit a plurality of status data of the digital device to a controller, and the controller to receive a first signal from a first application requesting registration as an application voter, to transmit a second signal requesting a confirmation related to execute a second application to the first application when first status data is received from a service interface, to receive a response to the second signal from the first application, and to execute the second application to enter a screensaver mode based on the received response.

Probable Assignee: LG ELECTRONICS INC

Earliest Publication Date: 20150826



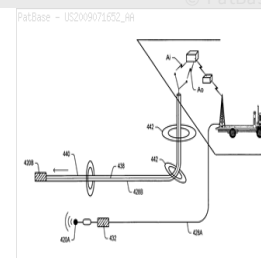
16) Family number: 43031138 (US2009071652A)

IN SITU HEAT TREATMENT FROM MULTIPLE LAYERS OF A TAR SANDS FORMATION

Abstract: Source: US2009071652A A method for treating a tar sands formation is disclosed. The method includes providing a drive fluid to a first hydrocarbon containing layer of the formation to mobilize at least some hydrocarbons in the first layer. At least some of the mobilized hydrocarbons are allowed to flow into a second hydrocarbon containing layer of the formation. Heat is provided to the second layer from one or more heaters located in the second layer. At least some hydrocarbons are produced from the second layer of the formation.

Probable Assignee: SHELL OIL CO

Earliest Publication Date: 20090319



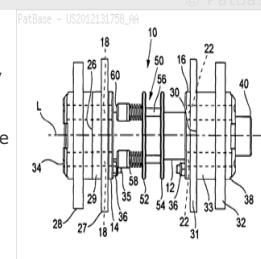
17) Family number: 43759986 (US2012131758A)

PIPELINE PIG AND LAUNCHING APPARATUS

Abstract: Source: US2012131758A The present invention provides a pipeline pig (10) comprising an elongate body (12) and annular front and rear supports (26,30) projecting radially from the body (12). Each support (26,30) has an upstream side and a downstream side, with the front support (26) including at least one first fluid passage (18) permitting fluid flow from the upstream side to the downstream side, and the rear support (30) including at least one second fluid passage (22) permitting fluid flow from the upstream side to the downstream side. The pig further comprises a launch valve (50) adapted to move from an open position to a closed position to close the at least one first fluid passage (18), and a control means adapted to control the closing of the launch valve (50). A launch trap for launching pigs into a pipeline is also provided.

Probable Assignee: PIPELINE ENGINEERING AND SUPPLY CO LTD

Earliest Publication Date: 20110120



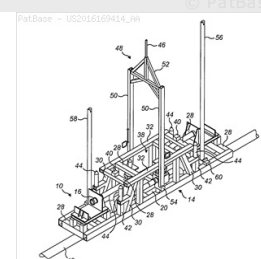
18) Family number: 54701687 (US2016169414A)

FOUNDATIONS FOR SUBSEA PIPELINE ACCESSORIES

Abstract: Source: US2016169414A A pipeline including an accessory such as a flowline end termination or an in-line tee is lowered to the seabed and a mudmat foundation is subsequently lowered toward the seabed for subsea docking with the accessory to provide a permanent foundation support for the accessory. Once docked and with a mudmat of the foundation landed on the seabed, weight loads of the accessory structure and the attached pipe are transferred to the mudmat to provide a permanent foundation for the accessory structure. Before and during installation of the mudmat foundation, the pipe may be allowed to become embedded in the seabed. Temporary interim support such as buoyancy may be provided to the accessory to limit embedment into the seabed.

Probable Assignee: ACERGY FRANCE SAS

Earliest Publication Date: 20141231



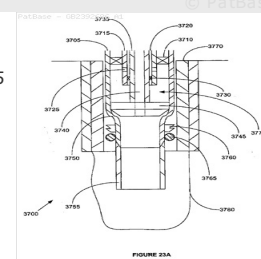
19) Family number: 31809437 (GB2392686A)

JOINING WELLBORE CASINGS BY TWO-STEP RADIAL EXPANSION

Abstract: Source: GB2392686A A method of joining a first tubular member 3770 to a second tubular member 3755 comprising: positioning at least a portion of the second tubular member 3755 within the first tubular member 3770 radially expanding at least a portion of the second tubular member into contact with the first tubular member; and radially expanding the first and second tubular members; wherein the interior diameter of the radially expanded second tubular member is substantially equal to the interior diameter of the radially unexpanded portion of the first tubular member.

Probable Assignee: ENVENTURE GLOBAL TECHNOLOGY

Earliest Publication Date: 20040310



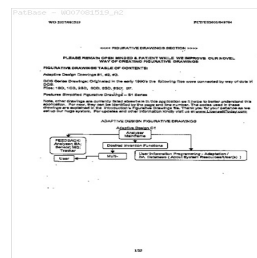
20) Family number: 34894143 (WO07081519A2)

GENIUS ADAPTIVE DESIGN

Abstract: Explore interesting inventions inside, conceived by our genius idea generator. Discover history's most effective method in conceiving novel uses for existing electronic technology. License huge domains of intellectual property from the invention directory our system helped develop. The searcher can find one of our interesting inventions in this patent application via our LicenseItToday.com, etc. Call our California Headquarters 1-707-428-5000. View invention ideas, plus 100+ variations adapted for end user target markets. LicenseItToday.com fills out exclusive international license agreements valid up to December 2026. It saves time and money creative LP. over any other documented creative thinking process. Licensees seek outputted patents using our or their pat attorneys. Royalties can start when profits begin. Or you can buy the affordable I.P. rights. Proof is in tryingit out. Discover amazing inventions inside today.

Probable Assignee: INNOVATION INST LLC

Earliest Publication Date: 20070719



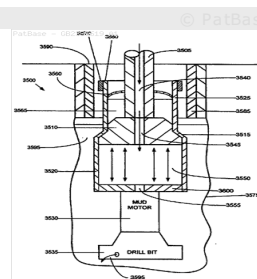
21) Family number: 31809440 (GB2385619A)

A METHOD OF FORMING A WELLBORE CASING

Abstract: Source: GB2385619A A method of forming a wellbore casing in a wellbore comprises drilling out the wellbore while extruding the wellbore casing 3525 off of a mandrel 3510 within the wellbore.

Probable Assignee: SHELL INT RESEARCH

Earliest Publication Date: 20030827



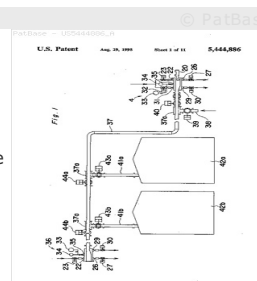
22) Family number: 10354146 (US5444886A)

APPARATUS FOR CLEANING A PIPING

Abstract: Source: US5444886A An apparatus designed to efficiently and positively clean a main piping not only totally, but also partially by the reciprocation of a pig. The cleaning apparatus is provided with a launcher (4) for projecting a pig (1) and a catcher (36) for receiving the pig (1) at both ends of a main piping (37). A compressed gas is supplied from a feed nozzle of the launcher to thereby send the pig to the catcher (36). In consequence to the arrival of the pig, the compressed gas is discharged through a discharge nozzle (29) of the catcher (36), when the pressure is decreased and the pig is accordingly stopped. The decrease of the pressure is detected by a pressure sensor (33) of the launcher (4). When the pig arrives at the catcher (36), it is detected by a pressure sensor (33) of the catcher (36). The compressed gas is supplied from a feed nozzle (22) of the catcher (36) based on the detecting signal of the pressure sensor (33) of the launcher (4), to thereby send the pig towards the launcher (4). The reciprocating motion of the pig is executed by opening/closing electromagnetic valves of the launcher (4), catcher (36), main piping (37) and branch pipes (41a, 41b) by means of a controller.

Probable Assignee: FUJI OIL CO LTD

Earliest Publication Date: 19950405



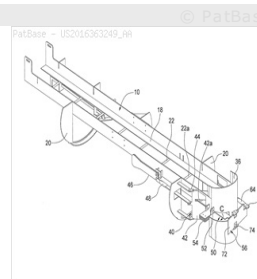
23) Family number: 64368889 (US2016363249A)

PIPELINE PIG LAUNCH APPARATUS

Abstract: Source: US2016363249A An in-line pig launching device includes a pair of guide rails on which a pig is stored before launching, a drive system for moving the pig along the guide rails and a drop tube at an end of the guide rails for accommodating the pig just before launching. The drop tube includes a guide rail extension that holds the pig in a proper orientation, against tipping, within the drop tube. The guide rail extension is linked to the drive system, such that only when the drive system moves to move a next pig will the guide rail extension release the pig from the drop tube.

Probable Assignee: ROTO LAUNCH INC

Earliest Publication Date: 20161215



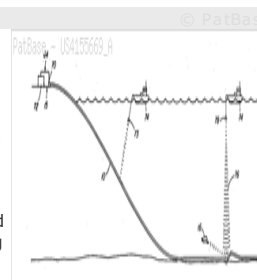
24) Family number: 1332579 (US4155669A)

DEEP WATER REPAIR METHODS AND APPARATUS

Abstract: Source: US4155669A The invention relates to methods and apparatus for effecting deep water repair of pipelines especially during a pipelaying operation. A damaged portion of the pipeline is located and is prepared for receiving a pipeline plug member by cutting away the damaged portion leaving a prepared pipeline end section. The pipeline plug member is secured in a submersible repair frame which is lowered from a floating vessel into an operational relationship with the prepared pipeline end section. The plug member is aligned with the pipeline end section and is inserted into the end section. Thereafter, the plug member is sealingly secured in the pipeline end section and the repair frame is removed from its operational relationship with the pipeline. The pipeline is dewatered and the end section is then raised onto a floating vessel. The repair frame, in addition to including means for holding and manipulating the plug member, also has a manually operable control panel manipulating means for controlling operations of the repair frame, and a submersible vehicle docking station to position a submersible vehicle in an operative relationship to the control panel manipulating means. The repair frame is preferably lowered to the bottom of the body of water with a pick up line or a pilot line attached to the plug member.

Probable Assignee: BROWN AND ROOT

Earliest Publication Date: 19790522



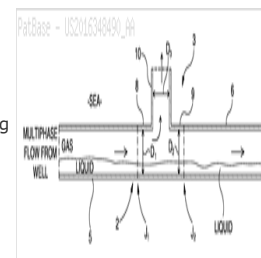
25) Family number: 56197702 (US2016348490A)

SUBSEA PROCESSING

Abstract: Source: US2016348490A There is described subsea apparatus and a method for processing fluid from a well. In an embodiment, a pipeline (6) may be arranged to carry the multiphase fluid containing liquid and gas from the well. An outlet (10) extending through a wall of the pipeline may let gas out of the pipeline from said region and through the outlet to separate said gas and liquid. A compressor may be connected to the outlet to compress the separated gas. The separated liquid and the compressed gas may be combined. Separated liquid may be conveyed along a sloping portion of the pipe to a low point in the seabed terrain, and may be conveyed to a pump for boosting the flow of liquid. The pump may be located in an excavated hole or glory hole below the seabed.

Probable Assignee: STATOIL PETROLEUM AS

Earliest Publication Date: 20150812



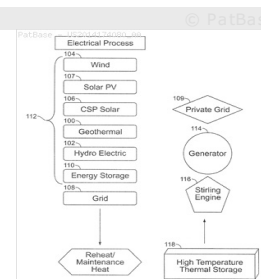
26) Family number: 56489638 (US2014174080A)

HYBRID TRIGENERATION SYSTEM BASED MICROGRID COMBINED COOLING, HEAT AND POWER PROVIDING HEATING, COOLING, ELECTRICAL GENERATION AND ENERGY STORAGE USING AN INTEGRATED AUTOMATION SYSTEM FOR MONITOR, ANALYSIS AND CONTROL

Abstract: Source: US2014174080A Provided is a consumer to industrial scale energy trigeneration process based microgrid combined cooling, heat and power. The present invention includes conversion, processing, extraction and and/or storage systems for electrical, chemical and thermal energy. The invention provides a quintessential renewable energy ecosystem incorporating vital energy generation, thermal heating and cooling processes with integrated components installed to encompass a distributed renewable energy generation, energy storage and integrated automation system. The automation system of the invention provides the ability to view, monitor, analyze, control and interact with system components.

Probable Assignee: FRIESTH KEVIN LEE

Earliest Publication Date: 20140522



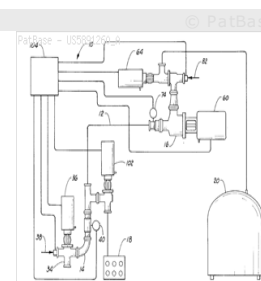
27) Family number: 13018314 (US5891260A)

PRODUCT RECOVERY SYSTEM

Abstract: Source: US5891260A A product recovery system for recovering product from a pipeline having a supply end and a destination end and having a path of primary product flow from the supply end to the destination end. The product recovery system includes a pig launching station connected to and in communication with one end of the pipeline. The pig launching station has a pig parking chamber which holds a pig outside the primary product flow. The product recovery system has a pig catching station connected to and in communication with the destination end of the pipeline. The pig catching station includes a clean-in-place chamber for housing a pipeline pig while the pig is cleaned without removing the pig from the product recovery system. A valve may be used to push the pig out of the clean-in-place chamber so it may be returned up the pipeline.

Probable Assignee: INLINE SERVICES INC

Earliest Publication Date: 19980806



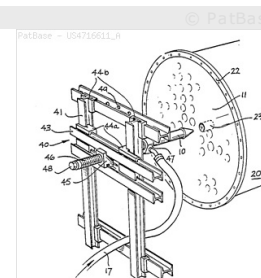
28) Family number: 16925980 (US4716611A)

APPARATUS FOR CLEANING PIPES, TUBES, AND THE LIKE BY LAUNCHING PIGS

Abstract: Source: US4716611A Pipes, tubes and the like, for example, in heat exchangers, can be cleaned internally using sonic energy, a relatively incompressible pig and a flushing liquid. The flushing liquid is supplied via a pressure outlet from a quick operating valve to one or more launchers for launching pigs. The launchers are mounted on either an x-y frame movable support or a rotary axis adapter and radially movable support for positioning the launchers with respect to the ends of the tubes to be cleaned.

Probable Assignee: BARRY BROS SPECIALIZED SERVICES PTY LTD

Earliest Publication Date: 19850221



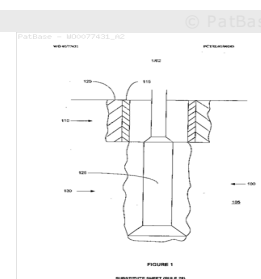
29) Family number: 31809365 (WO0077431A3)

EXPANDABLE CONNECTOR

Abstract: An expandable threaded connection (4300) includes a first tubular member (4305), a second tubular member (4310) and a threaded connection (4315) for coupling the tubular members that includes one or more sealing members (4325).

Probable Assignee: SHELL INT RESEARCH

Earliest Publication Date: 20001026

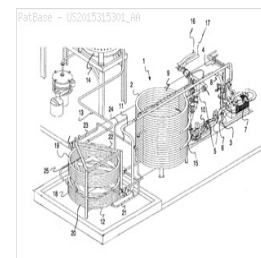


30) Family number: 56591581 (US2015315301A)

CONTINUOUS EMULSION POLYMERIZATION REACTOR AND PIGGING SYSTEM

Abstract: Source: US2015315301A The invention relates to continuous polymerization apparatus comprising a tubular reactor with a continuous loop section (32), a secondary line section (33) and a pigging system (39) that allows for cleaning of both sections of the reactor in a single continuous pass without manual removal of the pig.

Probable Assignee: CELANESE INT CORP



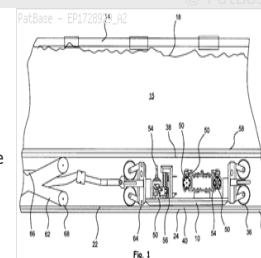
31) Family number: 33973107 (EP1728929A2)

IMPROVEMENTS IN OR RELATING TO PIPELINES FOR DRAINAGE

Abstract: Source: EP1728929A2 A method of repairing an underground drainage pipe, conduit or passageway (12, 142), by inserting a liner (40, 144) and then launching a pipeline pig (10, 110) through the pipe which simultaneously creates multiple holes (60) through the liner (40, 144) and the pipe wall (24). The pipeline pig (10, 110) is also described having a number of cutting elements (54, 148) arranged substantially symmetrically about a central axis (52) which can be extended to drill or jet through the liner (40, 144) and wall (24). Existing conduits are thus made selectively permeable.

Probable Assignee: WATERFLOW GROUP THE PLC

Earliest Publication Date: 20061206



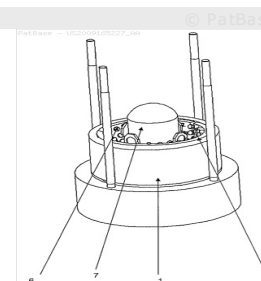
32) Family number: 41566619 (US2009165227A)

PIPELINE PIGS

Abstract: Source: US2009165227A A scraper pig for cleaning tubes and pipelines comprising a flexible core provided with a casing in which scraper studs are embedded in a manner whereby they protrude sufficiently to perform a cleaning action when they are propelled through the tube. A method for the manufacture of the pig and the design of the stud is also provided.

Probable Assignee: COKEBUSTERS LTD

Earliest Publication Date: 20090702



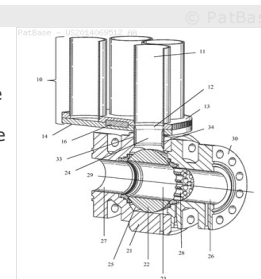
33) Family number: 55977745 (US2014069512A)

AUTOMATIC BARREL PIG LAUNCHER

Abstract: Source: US2014069512A Disclosed herein is an automatic barrel pig launcher with an actuated ball valve and a rotating magazine that contains one or more pigs. The automatic barrel pig launcher comprises a plate bore, bottom plate bore, upper case bore, and throughbore of a ball that, when aligned, provide loading of the pig into the throughbore of the ball. The pig is launched by opening the ball valve. Also disclosed herein are systems and methods of use of the automatic barrel pig launcher.

Probable Assignee: ARRAY HOLDINGS INC

Earliest Publication Date: 20140313



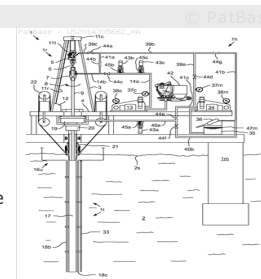
34) Family number: 57596123 (US2014305662A)

CROSSOVER TOOL FOR REVERSE CEMENTING A LINER STRING

Abstract: Source: US2014305662A A liner deployment assembly (LDA) for use in a wellbore includes: a crossover tool. The crossover tool includes: a seal for engaging a tubular string cemented into the wellbore; a tubular housing carrying the seal and having bypass ports straddling the seal; a mandrel having a bore therethrough and a port in fluid communication with the mandrel ports, the mandrel movable relative to the housing between a bore position where the mandrel port is isolated from the bypass ports and a bypass position where the mandrel port is aligned with one of the bypass ports; a bypass chamber formed between the housing and the mandrel and extending above and below the seal; and a control module. The control module includes: an electronics package; and an actuator in communication with the electronics package and operable to move the mandrel between the positions.

Probable Assignee: WEATHERFORD LAMB INC

Earliest Publication Date: 20141016



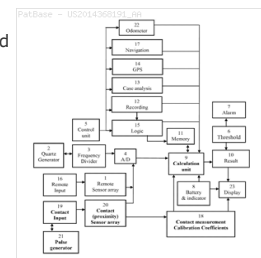
35) Family number: 58065593 (US2014368191A)

APPARATUS AND METHOD FOR METALLIC CONSTRUCTIONS ASSESSMENT

Abstract: Source: US2014368191A A device for discovering, identification and monitoring, of mechanical flaws in metallic structures is disclosed, based on magneto-graphic/magnetic tomography technique to identify stress-related defects. The device includes registration means that optimized for use with metallic structures of various types, shapes and sizes. Applications include a real-time quality control, monitoring and emergency alarms, as well structural repairs and maintenance work recommendations and planning. Examples of the device implementation include pipes for oil and gas industry monitoring, detection of flaws in rolled products in metallurgical industry, welding quality of heavy duty equipment such as ships, reservoirs. etc. It is especially important for loaded constructions, such as pressured pipes, infrastructure maintenance, nuclear power plant monitoring, bridges, corrosion prevention and environment protection.

Probable Assignee: GOROSHEVSKIY VALERIAN

Earliest Publication Date: 20141218



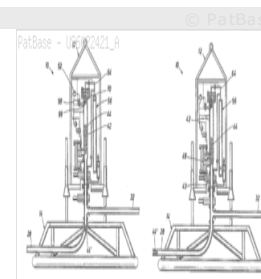
36) Family number: 12044449 (US6022421A)

METHOD FOR REMOTELY LAUNCHING SUBSEA PIGS IN RESPONSE TO WELLHEAD PRESSURE CHANGE

Abstract: Source: US6022421A A method for sensing and launching pipeline pigs into a pipeline. The method includes pressurizing a pressure accumulator in a pig launching system that includes a pig chamber, a plurality of pigs, a launch tube, and the pressure accumulator. The method further includes sensing a pressure within the pipeline and applying pressure from the pressure accumulator to force a pig through the launch tube and into the pipeline.

Probable Assignee: SAIPM AMERICA INC

Earliest Publication Date: 20000208



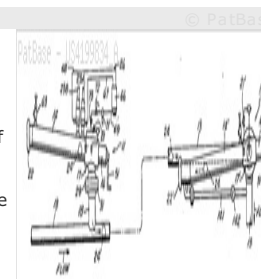
37) Family number: 1734292 (US4199834A)

PIG BALL TRANSFER UNIT

Abstract: Source: US4199834A Similar transfer units are disclosed for launching pig balls into a pipeline and for receiving the pig balls from a downstream portion of the pipeline, each of the transfer units including a hollow housing providing an axially aligned manually or hydraulically operable valve member and valve seat for closing off a magazine which is inclined from horizontal to permit gravity transfer of the pig balls, the hollow housing being otherwise shaped to facilitate transfer of the pig balls. With a pair of the transfer units being connected with a pipeline, the launching unit includes controlled plungers for regulating passage of individual pig balls into the pipeline while the receiving unit at the downstream portion of the pipeline is arranged for directing the pig balls into the receiving unit. A magazine housing for each unit is separable from the hollow housing to facilitate replacement of the valve seat.

Probable Assignee: CAMERON IRON WORKS USA INC

Earliest Publication Date: 19800129



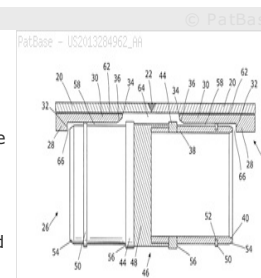
38) Family number: 46560111 (US2013284962A)

TECHNIQUES FOR JOINING LINED PIPELINES

Abstract: Source: US2013284962A A connector for lined pipelines includes a tube having opposed male interface elements extending inwardly from respective ends of the tube. One or more circumferential permeable chokes project radially from each male interface element. The chokes minimise flow of oxidising fluid from the bore into the micro-annulus between the liner and the pipe while maximising flow of fluid from the micro-annulus into the bore in the event of catastrophic pressure drop in the bore. To maintain gaps between the tube ends and the pipe liners for fluid flow, shoulder formations defined by radially-projecting bands extend circumferentially around the tube. The connector may be used in a joint arrangement where each liner includes a body section, an end section of lesser thickness and greater bore than the body section that terminates short of an end of the pipe, an inner step disposed between the body section and the end section, and an outer step disposed between the end section and the pipe.

Probable Assignee: SUBSEA 7 LTD

Earliest Publication Date: 20111214



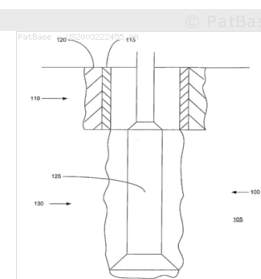
39) Family number: 31809400 (US2003222455A)

EXPANDABLE CONNECTOR

Abstract: Source: US2003222455A An expandable threaded connection includes a first tubular member, a second tubular member and a threaded connection for coupling the tubular members that includes one or more sealing members.

Probable Assignee: ENVENTURE GLOBAL TECHNOLOGY LLC

Earliest Publication Date: 20031204



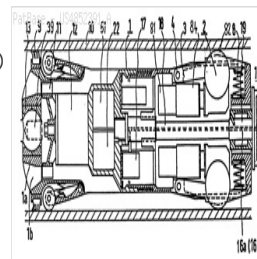
40) Family number: 28669289 (US4852391A)

PIPELINE VEHICLE

Abstract: Source: US4852391A PCT No. PCT/NO87/00027 Sec. 371 Date Feb. 16, 1988 Sec. 102(e) Date Feb. 16, 1988 PCT Filed Apr. 9, 1987 PCT Pub. No. WO87/06323 PCT Pub. Date Oct. 22, 1987. Self-driven vehicle for pipelines comprising: a cylindrically designed vehicle body (1) through which and/or around which the pipeline's (10) medium flows, a drive unit (2) on the vehicle body (1) which resiliently bears against the pipeline's (10) internal surface, a hydraulic system which powers the drive module (2), a power supply system for operation of the hydraulic system, and a controller (22) which at least controls the vehicle's movement in the pipeline (10).

Probable Assignee: NORSKE STATS OLJESELSKAP

Earliest Publication Date: 19871022



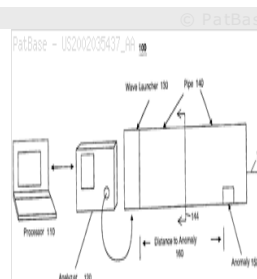
41) Family number: 30086319 (US2002035437A)

NON-INVASIVE PIPE INSPECTION SYSTEM

Abstract: Source: US2002035437A The invention is directed to a system and method for non-invasive pipe inspection. According to one embodiment, the system includes a processor, an analyzer, and a wave launcher. The wave launcher is adapted to transmit an input wideband waveform having a selected input energy into the pipe along a longitudinal axis, and to receive from the pipe a reflected component of the input waveform having a reflected energy. The analyzer is adapted to generate the input waveform, and to receive the reflected component of the input waveform from the wave launcher. The processor is adapted to compare the input waveform with the reflected component of the input waveform to determine characteristics.

Probable Assignee: CHARLES STARK DRAPER LABORATORIES INC

Earliest Publication Date: 20020207



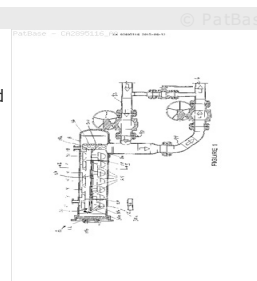
42) Family number: 64427802 (CA2895116A)

PIPELINE PIG LAUNCH APPARATUS

Abstract: Source: CA2895116A An in-line pig launching device includes a pair of guide rails on which a pig is stored before launching, a drive system for moving the pig along the guide rails and a drop tube at an end of the guide rails for accommodating the pig just before launching. The drop tube includes a guide rail extension that holds the pig in a proper orientation, against tipping, within the drop tube. The guide rail extension is linked to the drive system, such that only when the drive system moves to move a next pig will the guide rail extension release the pig from the drop tube.

Probable Assignee: ROTO LAUNCH INC

Earliest Publication Date: 20161212



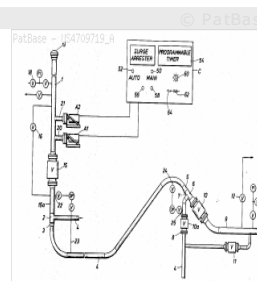
43) Family number: 5446727 (US4709719A)

AUTOMATIC CUP PIG LAUNCHING AND RETRIEVING SYSTEM

Abstract: Source: US4709719A Apparatus for launching and retrieving cup pigs in pipelines. A vertically oriented pig launching barrel is isolated from pipeline pressure, blown down to atmospheric pressure and then loaded with a number of cup pigs. After the pig launching barrel has been sealed and equalized with line pressure it is placed in pig launching communication with the pipeline. Holding and launching rams are then actuated automatically in accordance with a timed sequence or selectively under manual control to cause sequential or selective gravity and flow induced launching of cup pigs into the pipeline. Following passage through the pipeline the cup pigs are separated from the flowing fluid by a pig receiving barrel which is also capable of containing a number of cup pigs.

Probable Assignee: WESTERN GAS PROCESSORS LTD A CORP OF CO

Earliest Publication Date: 19871201



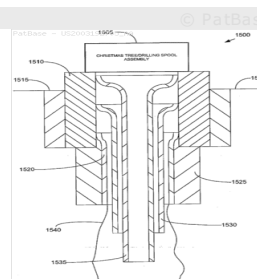
44) Family number: 31809401 (US2003192705A)

FORMING A WELLBORE CASING WHILE SIMULTANEOUSLY DRILLING A WELLBORE

Abstract: Source: US2003192705A A wellbore casing is formed simultaneously with the drilling out of the wellbore.

Probable Assignee: ENVENTURE GLOBAL TECHNOLOGY LLC

Earliest Publication Date: 20031016



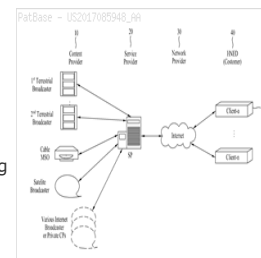
45) Family number: 60270024 (US2017085948A)

DIGITAL DEVICE AND CONTROL METHOD THEREOF

Abstract: Source: US2017085948A The present specification discloses various embodiments for a digital device and a control method thereof. Herein, a control method of a digital device according to an embodiment of the present invention may comprise the steps of: receiving a power-on signal; determining whether an application, which was executed at a power-off time point before the reception of the power-on signal, was an image output application; if it is determined that the application which was executed at the power-off time point was an image output application, loading and executing the image output application; loading and executing a first image control application for controlling an image that is output through the image output application; loading a second image control application; and, when the loading is completed, terminating the first image control application and executing the second image control application.

Probable Assignee: LG ELECTRONICS INC

Earliest Publication Date: 20150903



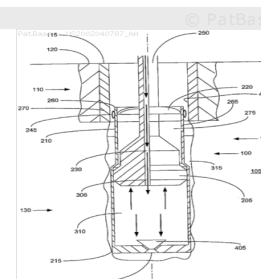
46) Family number: 31809419 (US2002040787A)

FORMING A WELLBORE CASING WHILE SIMULTANEOUSLY DRILLING A WELLBORE

Abstract: Source: US2002040787A A wellbore casing is formed simultaneously with the drilling out of the wellbore.

Probable Assignee: ENVENTURE GLOBAL TECHNOLOGY LLC

Earliest Publication Date: 20020411



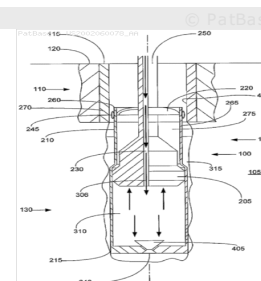
47) Family number: 31809418 (US2002060078A)

FORMING A WELLBORE CASING WHILE SIMULTANEOUSLY DRILLING A WELLBORE

Abstract: Source: US2002060078A A wellbore casing is formed simultaneously with the drilling out of the wellbore.

Probable Assignee: ENVENTURE GLOBAL TECHNOLOGY INC

Earliest Publication Date: 20020523



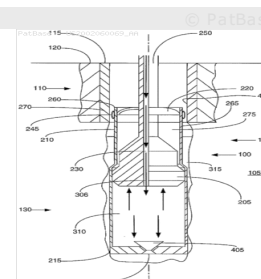
48) Family number: 31809370 (US2002060069A)

FORMING A WELLBORE CASING WHILE SIMULTANEOUSLY DRILLING A WELLBORE

Abstract: Source: US2002060069A A wellbore casing is formed simultaneously with the drilling out of the wellbore.

Probable Assignee: HALLIBURTON CO

Earliest Publication Date: 20020523



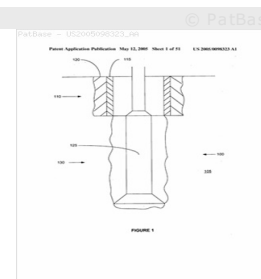
49) Family number: 42243716 (US2005098323A)

FORMING A WELLBORE CASING WHILE SIMULTANEOUSLY DRILLING A WELLBORE

Abstract: Source: US2005098323A A wellbore casing is formed simultaneously with the drilling out of the wellbore.

Probable Assignee: ENVENTURE GLOBAL TECHNOLOGY INC

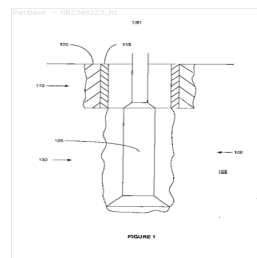
Earliest Publication Date: 20050512



50) Family number: 31809426 (GB2348223A)

FORMING A CASING WHILE SIMULTANEOUSLY DRILLING A WELLBORE

Abstract: Source: GB2348223A An apparatus 3500 is positioned within a preexisting section of wellbore 3575 having casing 3590. A new section of wellbore is drilled by a bit 3535 which is driven by a mud motor 3530 actuated by fluid pumped via passages 3540,3545, pressure chamber 3550 and passage 3555. At some point during the operation of the mud motor, the pressure drop across the motor will create sufficient back pressure to cause the operating pressure within the chamber 3550 to elevate to the pressure necessary to extrude tubular member 3525 off of mandrel 3510. As the tubular member is extruded off of the mandrel, the weight of the extruded portion is transferred to and supported by the drill bit. At some point a sufficient portion of the weight of the tubular member is transferred to the drill bit to stop the extrusion process due to the opposing force.; Continued drilling eventually transfers a sufficient portion of the weight of the extruded portion back to the mandrel 3510. At this point, the extrusion of the tubular member off of the mandrel continues. In this manner, support member 3505 never has to be moved. Once the lining of the new section of wellbore by the expanded tubular member 3525 is completed, the support member 3505 and mandrel 3510 are removed from the wellbore.



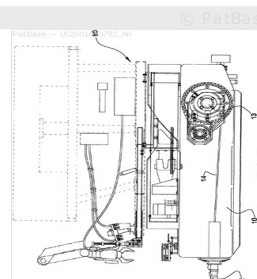
Probable Assignee: SHELL INT RESEARCH

Earliest Publication Date: 20000911

51) Family number: 28129729 (US2001010782A)

METHOD AND APPARATUS FOR CONNECTING UNDERWATER CONDUITS

Abstract: Source: US2001010782A Underwater conduits are connected by remotely operated devices including a vehicle capable of underwater excursions, and apparatus for connecting conduits, by a method controlled from a support vessel on the surface comprising the steps of launching a remotely operated vehicle from the support vessel; launching connection apparatus from the support vessel; manipulating the remotely operated vehicle to dock with the connecting apparatus; installing the connection apparatus at one of the conduits; activating a docking clamp means using the remotely operated vehicle to capture the end of the other conduit; activating the connection apparatus to draw the second conduit to the first; connecting the two conduits together to form a continuous flowline; providing a sealed connection and recovering the remotely operated vehicle and connection apparatus to the support vessel.



Probable Assignee: SAIPEM LTD

Earliest Publication Date: 19981007

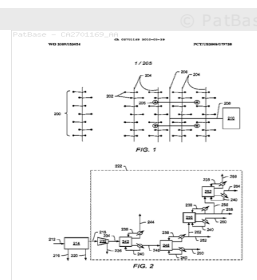
52) Family number: 44921378 (GB2465911A)

SYSTEMS, METHODS, AND PROCESSES UTILIZED FOR TREATING SUBSURFACE FORMATIONS

Abstract: Source: GB2465911A Systems, methods, and/or heaters for treating a subsurface formation are described herein. Some embodiments also generally relate to heaters that have novel components therein. Such heaters may be obtained by using the systems and methods described.

Probable Assignee: SHELL INT RESEARCH

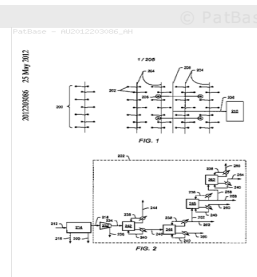
Earliest Publication Date: 20090423



53) Family number: 51337255 (AU2012203086A)

VARIABLE VOLTAGE TRANSFORMER

Abstract: Source: AU2012203086A Variable Voltage Transformer Abstract In a first aspect there is disclosed a variable voltage transformer (772), the variable voltage transformer comprises a primary winding (754) configured to be coupled to a voltage power source that provides a first voltage across the primary winding and a secondary winding (756) electrically isolated from the primary winding, wherein the secondary winding is configured to step down the first voltage to a second voltage that is a preset percentage of the first voltage. A multistep load tap changer (7) coupled to the secondary winding is provided, wherein the load tap changer divides the second voltage into a selected number of voltage steps, the voltage steps incremented from a selected minimum percentage of the second voltage to a selected maximum percentage of the second voltage, wherein an electrical load is configured to be coupled to the multistep load tap changer to provide electrical power to the load with a selected voltage, the multistep load tap changer being configured to tap a selected voltage step in order to provide the selected voltage to the electrical load.



Probable Assignee: SHELL INT RESEARCH

Earliest Publication Date: 20120614

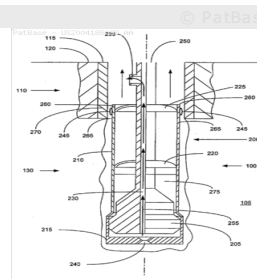
54) Family number: 31809394 (US2004188099A)

METHOD OF CREATING A CASING IN A BOREHOLE

Abstract: Source: US2004188099A A method of creating a casing in a borehole located in a subterranean formation including: supporting a tubular liner and an expansion device in the borehole using a support member; injecting fluidic material into the borehole; pressurizing an interior region of the expansion device; displacing a portion of the expansion device relative to the support member and the tubular liner in the longitudinal direction; and radially expanding the tubular liner.

Probable Assignee: ENVENTURE GLOBAL TECHNOLOGY INC

Earliest Publication Date: 20040930



55) Family number: 44937839 (US2010101072A)

APPARATUS FOR RADIALLY EXPANDING AND PLASTICALLY DEFORMING A TUBULAR MEMBER

Fig. 1 is a cross-sectional view of a medical device 100, such as a catheter. The device includes an internal lumen 110. Various components are labeled with reference numerals: 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990. The device is shown in a cross-sectional view, with the lumen 110 extending through the center. The device is shown in a cross-sectional view, with the lumen 110 extending through the center.

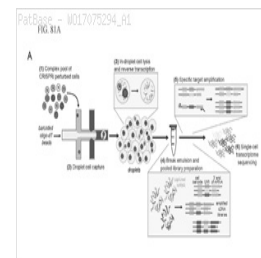
Earliest Publication Date: 20100429

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graph TD
    37[Select time (update) section] --> 38[Obtain geometric information data for first section]
    38 --> 39[Obtain thermal properties data for first section]
    39 --> 40[Obtain material properties data for first section]
    40 --> 41[Obtain input data for first section]
    41 --> 42[Obtain temperature distribution data for first section]
    42 --> 43[Formulate mathematical model]
    43 --> 44[Solve second algebraic equation]
    44 --> 38
  
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Fig. 4

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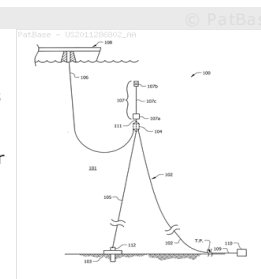
61) Family number: 49962468 (US2011286802A)

IMPROVED SUBSEA RISER SYSTEM

Abstract: Source: US2011286802A An improved riser system which comprises a connector for connecting conduits and a mooring system for mooring the connector to the floor of a body of water. The improved riser system also comprises a buoy system for supporting the connector. The buoy system is configured to provide a fixed buoyancy for the connector, the mooring system and at least a portion of the conduits and for providing variable buoyancy for placement of the connector at a predetermined water depth.

Probable Assignee: JACOBS ENGINEERING GROUP

Earliest Publication Date: 20111124



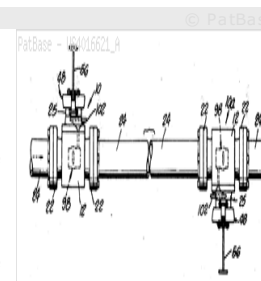
62) Family number: 1383715 (US4016621A)

DEVICE AND METHOD FOR LAUNCHING AND/OR RETRIEVING PIPELINE SCRAPERS

Abstract: Source: US4016621A A housing structure confines a ball-shaped valve member with a flow passage therethrough. One end of the flow passage serves as a cavity to receive a pipeline scraper in the form of a pig ball and a grid retains the pig ball while permitting fluid flow through the passage. The valve ball cavity may register with the chamber of a normally closed magazine to receive a pig ball therefrom or to release a pig ball thereto. The valve ball cavity may also register with one of the two ports of the housing structure to launch or retrieve a pig ball therethrough. The valve ball is completely enclosed by the housing structure with a seal at the entrance to the magazine. The magazine has a bleeder valve to the atmosphere and also has a by-pass valve to equalize the fluid pressure in the magazine with the fluid pressure in the pipeline. The valve ball has compensating freedom to move towards and away from the seal. Manually operable gearing rotates the valve ball 90 DEG between its two alternate positions.

Probable Assignee: CAMERON IRON WORKS USA INC

Earliest Publication Date: 19761216



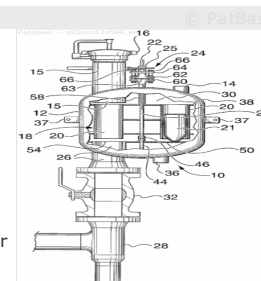
63) Family number: 28297630 (US2002170599A)

ROTATING PIG LAUNCHER

Abstract: Source: US2002170599A An apparatus for launching pigs is taught that is vertically compact, simple to operate, holds a plurality of pigs and which can accommodate various kinds of pigs. The launching is achieved by gravity. The apparatus for launching pigs includes a housing that can withstand at least the operating pressure of a pipeline, a supply magazine arranged in the housing with at least two pig-holding chambers, said pig-holding chambers being substantially vertical through-holes in the supply magazine, a closeable inlet port through the housing and providing access to the supply magazine, a launching chute connected to the pipeline and positioned beneath, as determined by gravity, the supply magazine, a drive operatively connected to the supply magazine, said drive causing the supply magazine to rotate about a substantially vertical axis and position the holding chamber generally above the launching chute.

Probable Assignee: ROTO LAUNCH INC

Earliest Publication Date: 20021121



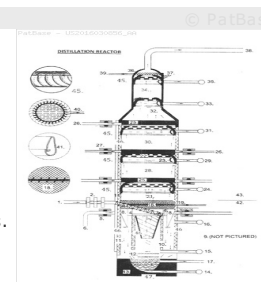
64) Family number: 57414072 (US2016030856A)

DISTILLATION REACTOR MODULE

Abstract: Source: US2016030856A The distillation reactor consists of a reactor apparatus with corresponding method of upstream distilling and purification of carbon based liquid or liquidized streams for use as fuels, lubricating oils and or gaseous energy and electricity production. The distillation reactor consolidates the atmospheric and vacuum distillation processes along with desalting, defueling, deasphalting, fractionation, thin/wiped film evaporation and Hydro finishing into an advanced high velocity, high volume single reactor system. Carbon based feed streams include either a single stream or preferably, a combined stream of liquefied coal slurries, crude oils, spent oils, Pyrolytic oils and or peat or other plant carbon derived liquids, vapors, mists or gases. The method further consists of controlling the mix ratio, flow velocity, sequential fractionation and filtration technology and processing atmospheres of the carbon feeds with the reactor apparatus. The combined apparatus and method allows for a refinery to consistently produce a finished barrel of oil well below traditional costs and at a higher efficiency than current art and prior art.

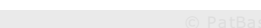
Probable Assignee: TRANSTAR GROUP LLC

Earliest Publication Date: 20140918



65) Family number: 31809384 (US6557640B)

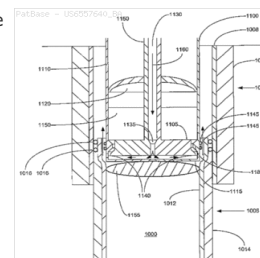
LUBRICATION AND SELF-CLEANING SYSTEM FOR EXPANSION MANDREL



Abstract: Source: US6557640B An expansion mandrel includes a lubrication system for lubricating the trailing edge portion of the interface between the expansion mandrel and a tubular member during the radial expansion of the tubular member.

Probable Assignee: ENVENTURE GLOBAL TECHNOLOGY LLC

Earliest Publication Date: 20030506



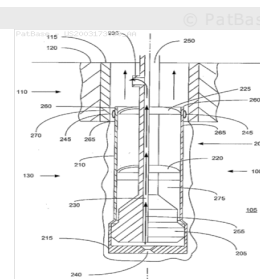
66) Family number: 31809402 (US2003173090A)

LUBRICATION AND SELF-CLEANING SYSTEM FOR EXPANSION MANDREL

Abstract: Source: US2003173090A An expansion mandrel includes a lubrication system for lubricating the trailing edge portion of the interface between the expansion mandrel and a tubular member during the radial expansion of the tubular member.

Probable Assignee: SHELL OIL CO

Earliest Publication Date: 20030918



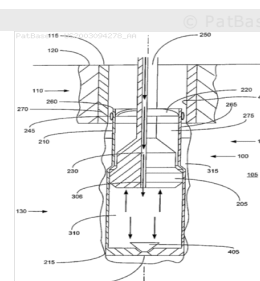
67) Family number: 31809409 (US2003094278A)

EXPANSION CONE FOR RADially EXPANDING TUBULAR MEMBERS

Abstract: Source: US2003094278A An expansion cone for radially expanding tubular members.

Probable Assignee: SHELL OIL CO

Earliest Publication Date: 20030522



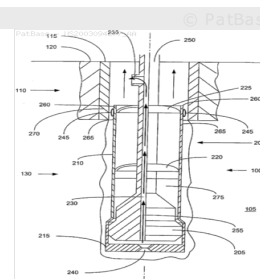
68) Family number: 31809410 (US2003094277A)

EXPANSION CONE FOR RADially EXPANDING TUBULAR MEMBERS

Abstract: Source: US2003094277A An expansion cone for radially expanding tubular members.

Probable Assignee: SHELL OIL CO

Earliest Publication Date: 20030522



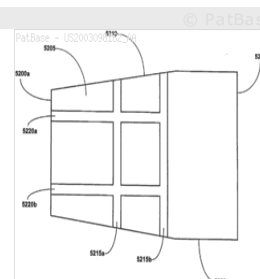
69) Family number: 31809406 (US2003098162A)

METHOD OF INSERTING A TUBULAR MEMBER INTO A WELLBORE

Abstract: Source: US2003098162A A method of inserting a tubular member into a wellbore.

Probable Assignee: SHELL OIL CO

Earliest Publication Date: 20030529



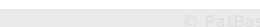
70) Family number: 31809407 (US2003098154A)

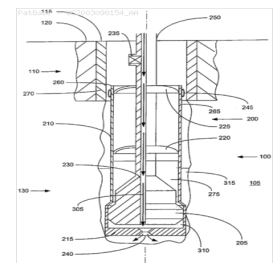
APPARATUS FOR RADially EXPANDING TUBULAR MEMBERS

Abstract: Source: US2003098154A An apparatus for radially expanding tubular members.

Probable Assignee: SHELL OIL CO

Earliest Publication Date: 20030529





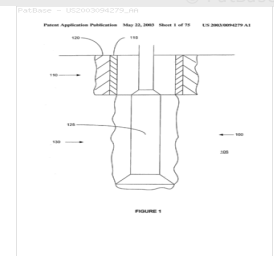
71) Family number: 31809408 (US2003094279A)

METHOD OF SELECTING TUBULAR MEMBERS

Abstract: Source: US2003094279A A method of selecting tubular members.

Probable Assignee: SHELL OIL CO

Earliest Publication Date: 20030522



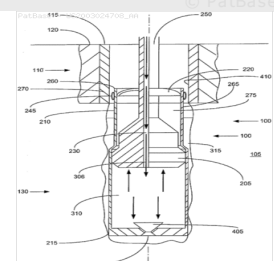
72) Family number: 31809413 (US2003024708A)

STRUCTURAL SUPPORT

Abstract: Source: US2003024708A A structural support.

Probable Assignee: SHELL OIL CO

Earliest Publication Date: 20030206



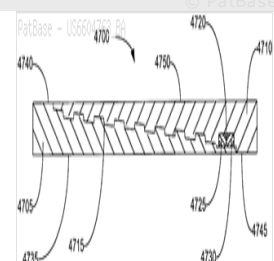
73) Family number: 31809380 (US6604763B)

EXPANDABLE CONNECTOR

Abstract: Source: US6604763B An expandable threaded connection includes a first tubular member, a second tubular member and a threaded connection for coupling the tubular members that includes one or more sealing members.

Probable Assignee: ENVENTURE GLOBAL TECHNOLOGY LLC

Earliest Publication Date: 20030812



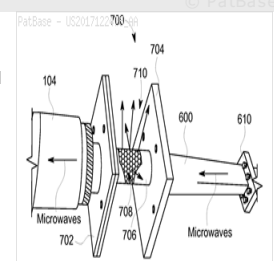
74) Family number: 65566251 (US2017122476A)

MICROWAVE-BASED FLUID CONDUIT HEATING SYSTEM AND METHOD OF OPERATING THE SAME

Abstract: Source: US2017122476A A fluid conduit heating system includes a fluid transport conduit including a wall including a radially inner surface and a radially outer surface. The radially inner surface has a predetermined topography and the fluid transport conduit is configured to transport a hydrocarbon fluid therethrough. The system also includes a microwave heating device in radio frequency (RF) communication with the fluid transport conduit. The microwave heating device includes a microwave generator configured to generate microwave radiation and a waveguide coupled to the microwave generator. The waveguide is configured to conform a propagation pattern of the microwave radiation generated by the microwave generator to the predetermined topography of the radially inner surface.

Probable Assignee: GENERAL ELECTRIC CO

Earliest Publication Date: 20170504



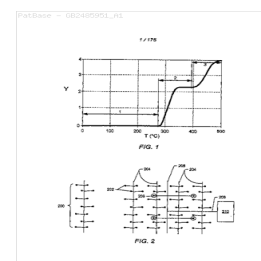
75) Family number: 44040073 (GB2485951A)

HEATING SYSTEM FOR A SUBSURFACE FORMATION

Abstract: Source: GB2485951A A heating system for a subsurface formation comprising: a first heater configuration, comprising: a conduit located in a first opening in the subsurface formation; three electrical conductors located in the conduit; a return conductor located inside the conduit, the return conductor being electrically coupled to the ends of the electrical conductors distal from the surface of the formation; and insulation located inside the conduit, the insulation being configured to electrically insulate the three electrical conductors, the return conductor, and the conduit from each other.

Probable Assignee: SHELL INT RESEARCH

Earliest Publication Date: 20081030



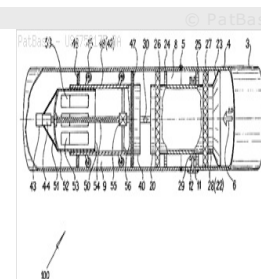
76) Family number: 28999114 (US6752175B)

AUXILIARY DEVICE FOR REPAIRING A PIPELINE

Abstract: Source: US6752175B An auxiliary device (100) is provided for repairing a pipeline and sealing small damages (5) in a wall (4) of a pipeline. A working space (8) is created between the interior of the pipeline (93) and the outer circumference of the base element (22) when the auxiliary device (100) for repairing a pipeline is pushed into a pipeline. The working space (8) can be sealed in the axial direction of the pipeline (3) and in a jointing manner by way of the expanding sealing collars (24,25). The auxiliary device (100) is provided with a transport module (40) that is articulated to the sealing module (20). The device can be transported through the fluid flow by means of the transport module (40).

Probable Assignee: WILLSCHUETZ KLAUS DIETER

Earliest Publication Date: 20000907



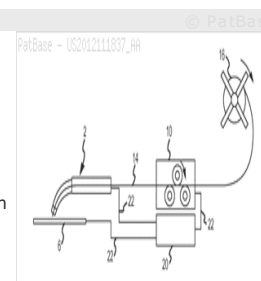
77) Family number: 51070513 (US2012111837A)

IN-SERVICE WELD REPAIRS USING METAL ARC WELDING UNDER OIL (MAWUO) OF PIPELINES, TANKS, AND VESSELS

Abstract: Source: US2012111837A Apparatus and methods of repairing an in-service pipeline, tank, and/or vessel are provided. Generally, a metal arc welding under oil process employing an automated metal arc welding setup with a continuous wire feed is utilized. The process may be used in connection with a smart pig to perform in-situ internal repairs of in-service pipelines, tanks, and/or vessels. For example, a pipeline pig or other device is contemplated that employs an internal power supply, a navigation system, and a metal arc welding under oil system that is able to travel vast distances within a pipeline to reach pipeline segments that are either buried underground, under highways, or underwater making access very difficult. Once at its desired location, the pipeline pig performs in-situ welding or other internal repairs to the in-service pipeline. The disclosed apparatus and methods provide great flexibility to the repair of pipelines, tanks, and/or vessels.

Probable Assignee: COLORADO SCHOOL OF MINES

Earliest Publication Date: 20120510



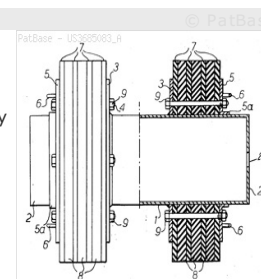
78) Family number: 18065120 (US3685083A)

BI-DIRECTIONAL PIPELINE PIG

Abstract: Source: US3685083A A bi-directional pig for operation in a pipeline comprising an elongated body, at least one annular sealing assembly mounted on said body, the sealing assembly comprising a plurality of alternately hard and soft sealing rings sandwiched between rigid backing members and means for applying pressure to said assembly whereby in operation, the soft sealing rings project outwardly to enter into sealing engagement with the wall of the pipe. Locking means are preferably incorporated in the bi-directional pig for automatically interlocking the same to another pig when in the pipeline and for releasing the same therefrom.

Probable Assignee: GEN DESCALING CO LTD

Earliest Publication Date: 19710527

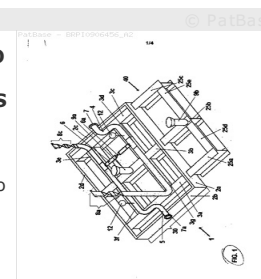


79) Family number: 49392433 (BRPI0906456A)

MODULO DE LANCAMENTO E RECEBIMENTO DE PIGS PARA DUTOS MULTIDIAMETRO E RESPECTIVO PROCESSO DE OPERACAO MODULE LAUNCHING AND RECEIVING PIGS MULTIDIAMETRO DUCT AND ITS OPERATION PROCESS (MACHINE TRANSLATION)

Abstract: Source: BRPI0906456A MODULO DE LANCAMENTO E RECEBIMENTO DE PIGS PARA DUTOS MULTIDIAMETRO E RESPECTIVO PROCESSO DE OPERACAO A presente invencao propoe um modulo de lancamento e recebimento de pignos para dutos multidiametro e respectivo processo de operacao. Compreende um modulo para aplicacao na interligacao entre dutos rigidos submarinos ou hibridos, que apresentem variacao de diametro, permitindo fazer a conexao entre uma secao de maior diametro e uma secao de menor diametro do duto. A conexao e feita, com o auxilio de uma ligacao rigida em ponte (um jumper rigido adaptado) ou, alternativamente, por uma estacao recuperavel (20) de lancamento e recebimento de pignos. O jumper rigido adaptado (10) se destina a possibilitar a operacao normal do duto, permitindo o escoamento de oleo ou gas. A estacao recuperavel (20) de lancamento e recebimento de pignos se destina a permitir a realizacao de inspecoes do duto utilizando pignos normalmente empregados na tecnica.

Machine translation: MODULE RELEASE AND RECEIPT OF PIGS MULTIDIAMETRO FOR PIPELINE AND ITS PROCESS OF OPERATION The present invention proposes a module was released in erecebimento multidiametro of pigs for pipeline and process for its operation. It comprises a module for use in rigid subsea pipelines linking or hybrids, which changed dediametro, allows the connection between a section of larger diameter and a section of smaller diameter duct. The connection is made with the aid of a rigid link bridge (jumper one drive adapted) or, alternatively, for a season recoverable (20) launching and receiving pigs. The adjusted drive jumper (10) is intended to enable the normal operation of the pipeline, permitting the sale of oil or gas. The station recoverable (20) for launching and receiving of pigs is intended to allow to inspect the pipeline pig using the technique normally used.



Probable Assignee: PETROLEO BRASILEIRO SA

Earliest Publication Date: 20110802

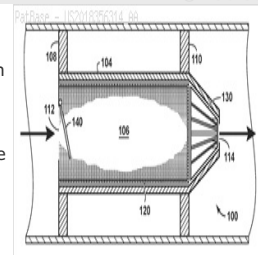
80) Family number: 72371947 (US2018356314A)

APPARATUS AND METHOD FOR SAMPLING SOLIDS IN PIPELINE FLUID

Abstract: Source: US2018356314A Systems, methods, and apparatuses are provided for sampling solid particles in fluid flowing through a pipeline. In one or more embodiments, a pipeline pig having at least one bypass channel and at least one filter located within the bypass channel is configured to collect solid particles within the fluid of predetermined minimum size. Additional filters of varying mesh size may be included. In other embodiments, at least one valve may be used to adjust the fluid flow through the bypass channel, and a flow metering device may be configured to measure a flow rate of the fluid flowing through the bypass channel. In other embodiments, a bypass control device may be configured to control the valve to regulate fluid flow rate and fluid access into the bypass channel.

Probable Assignee: LAGUS TODD PETER

Earliest Publication Date: 20181213



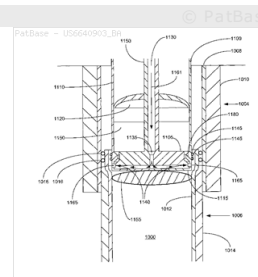
81) Family number: 31809375 (US6640903B)

FORMING A WELLBORE CASING WHILE SIMULTANEOUSLY DRILLING A WELLBORE

Abstract: Source: US6640903B A wellbore casing is formed simultaneously with the drilling out of the wellbore.

Probable Assignee: ENVENTURE GLOBAL TECHNOLOGY LLC

Earliest Publication Date: 20031104



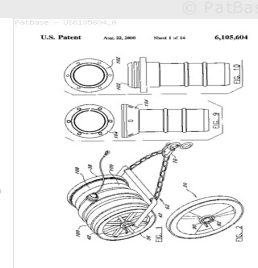
82) Family number: 28618776 (US6105604A)

CONESTOGA COMBAT HOSE REEL AND RAPID INLAND PETROLEUM AND WATER DISTRIBUTION SYSTEM

Abstract: Source: US6105604A A portable deployment and retrieval hose reel for deploying and retrieving a continuous hose is disclosed. The hose reel includes an independently rotatable drum member disposed between two flange members, which are preferably in the form of wheels. The wheels are similar to conestoga type wagon wheels. The wheels and drum member define a conduit storage area. Preferably, the spokes of the wheels are canted at least slightly outward from their attachment at one end to a central wheel hub and at their opposite end to the outer peripheral rim of the wheel. The use of the conestoga type wheels allows the hose reel to be transported over non-developed topography and rough surfaces, often inaccessible by land vehicles. The outer peripheral surface of the wheels can be provided with an anti-abrasive surface, such as a rubber coating or urethane. The attachment of the wheels by an axle extending through the drum, allows the drum part of the hose reel to rotate freely or independently of the rotation or turning of the wheels. A yoke assembly is provided for moving and transporting the hose reel. To attach the yoke assembly to the wheels of the hose reel, a pair of shackle plate assemblies are provided. A is stacked around the drum preferably in a flat position.

Probable Assignee: MANULI RUBBER IND SPA

Earliest Publication Date: 20000822



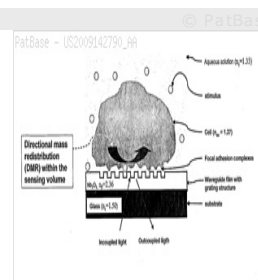
83) Family number: 33475972 (US2009142790A)

LABEL FREE BIOSENSORS AND CELLS

Abstract: Source: US2009142790A Disclosed are compositions and methods for using label free optical biosensors for performing cell assays. In certain embodiments the assays can be performed in high throughput methods and can be multiplexed.

Probable Assignee: CORNING INC

Earliest Publication Date: 20061012

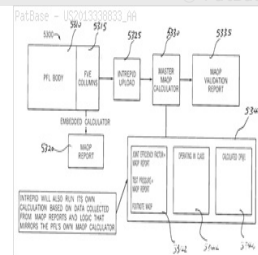


84) Family number: 55374231 (US2013338833A)

SYSTEM AND METHOD FOR CALCULATING AND REPORTING MAXIMUM ALLOWABLE OPERATING PRESSURE

Abstract: Source: US2013338833A Embodiments of the invention provide a pipeline analysis system for analyzing a pipeline dataset to determine compliance with desired maximum allowable pipeline operating pressures. In some embodiments, pipeline component data can correspond to an existing or planned physical pipeline. In some embodiments, the pipeline analysis system can enable revision of the pipeline component data to specify at least one pipeline component having at least one different characteristic than was originally specified in the dataset or specify pipeline components that are in compliance with desired maximum allowable pipeline operating pressures. In some embodiments, the pipeline analysis system comprises a processor, and at least one non-transitory computer-readable storage medium for tangibly storing thereon program logic for execution by the processor. In some embodiments, the program logic comprises logic executed by the processor for receiving and tangibly storing pipeline component data corresponding to an existing or planned physical pipeline.

Probable Assignee: PACIFIC GAS AND ELECTRIC CO



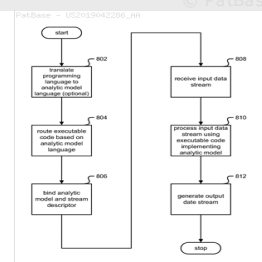
Earliest Publication Date: 20131219
85) Family number: 73127798 (US2019042286A)

ANALYTIC MODEL EXECUTION ENGINE WITH INSTRUMENTATION FOR GRANULAR PERFORMANCE ANALYSIS FOR METRICS AND DIAGNOSTICS FOR TROUBLESHOOTING

Abstract: Source: US2019042286A At an interface an analytic model for processing data is received. The analytic model is inspected to determine a language, an action, an input type, and an output type. A virtualized execution environment is generated for an analytic engine that includes executable code to implement the analytic model for processing an input data stream.

Probable Assignee: OPEN DATA GROUP INC

Earliest Publication Date: 20190207



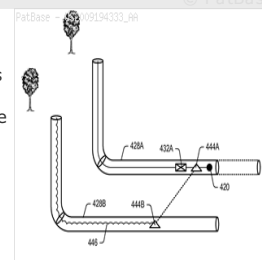
86) Family number: 43588937 (US2009194333A)

RANGING METHODS FOR DEVELOPING WELLBORES IN SUBSURFACE FORMATIONS

Abstract: Source: US2009194333A A method for forming two or more wellbores in a subsurface formation includes forming a first wellbore in the formation. A second wellbore is directionally drilled in a selected relationship relative to the first wellbore. At least one magnetic field is provided in the second wellbore using one or more magnets in the second wellbore located on a drilling string used to drill the second wellbore. At least one magnetic field is sensed in the first wellbore using at least two sensors in the first wellbore as the magnetic field passes by the at least two sensors while the second wellbore is being drilled. A position of the second wellbore is continuously assessed relative to the first wellbore using the sensed magnetic field. The direction of drilling of the second wellbore is adjusted so that the second wellbore remains in the selected relationship relative to the first wellbore.

Probable Assignee: SHELL OIL CO

Earliest Publication Date: 20090806



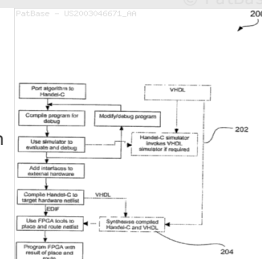
87) Family number: 23627842 (US2003046671A)

SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR SIGNAL CONSTRUCTS IN A PROGRAMMING LANGUAGE CAPABLE OF PROGRAMMING HARDWARE ARCHITECTURES

Abstract: Source: US2003046671A A system, method and article of manufacture are provided for using a dynamic object in a programming language. In general, an object is defined with an associated first value and second value. The first value is used in association with the object during a predetermined clock cycle. The second value is used in association with the object before or after the predetermined clock cycle.

Probable Assignee: MATHWORKS INC

Earliest Publication Date: 20020808



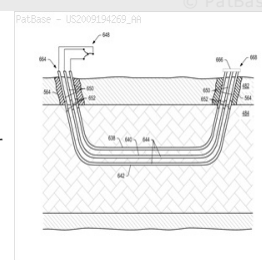
88) Family number: 43588954 (US2009194269A)

THREE-PHASE HEATERS WITH COMMON OVERBURDEN SECTIONS FOR HEATING SUBSURFACE FORMATIONS

Abstract: Source: US2009194269A A heating system for a subsurface formation is described. The heating system includes three substantially u-shaped heaters with first end portions of the heaters being electrically coupled to a single, three-phase wye transformer and second end portions of the heaters being electrically coupled to each other and/or to ground. The three heaters may enter the formation through a first common wellbore and exit the formation through a second common wellbore so that the magnetic fields of the three heaters at least partially cancel out in the common wellbores.

Probable Assignee: SHELL OIL CO

Earliest Publication Date: 20090806



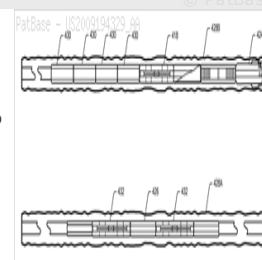
89) Family number: 43588990 (US2009194329A)

METHODS FOR FORMING WELLBORES IN HEATED FORMATIONS

Abstract: Source: US2009194329A A method for forming a wellbore in a heated formation includes flowing liquid cooling fluid to a bottom hole assembly in a wellbore in a heated formation. At least a portion of the liquid cooling fluid is vaporized at or near a region to be cooled. Vaporizing the liquid cooling fluid absorbs heat from the region to be cooled.

Probable Assignee: SHELL OIL CO

Earliest Publication Date: 20090806



90) Family number: 43589034 (US2009194282A)

IN SITU OXIDATION OF SUBSURFACE FORMATIONS

Abstract: Source: US2009194282A Methods and systems for treating a hydrocarbon containing formation described herein include providing heat to a first portion of the formation from a plurality of heaters in the first portion, producing produced through one or more production wells in a second portion of the formation, reducing or turning off heat provided to the first portion after a selected time, providing an oxidizing fluid through one or more of the heater wells in the first portion, providing heat to the first portion and the second portion through oxidation of at least some hydrocarbons in the first portion, and producing fluids through at least one of the production wells in the second portion. The produced fluids may include at least some oxidized hydrocarbons produced in the first portion.

Probable Assignee: SHELL OIL CO

Earliest Publication Date: 20090806

