

Search history

Search 1: WELL CEMENTATION TOOL (Results 14)

1) Family number: 54427118 (CN103225493A)

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Title: BACKFLOW PREVENTING DEVICE FOR WELL CEMENTATION

Abstract: The invention relates to a well cementation tool for petroleum drilling, in particular to a backflow preventing device for well cementation. A suspension body is fixedly connected to a step in the body of the device; the upper ends of a plurality of connecting bars are connected with the suspension body, and the lower ends of the connecting bars are connected with a limit seat and fixing nuts; the middle of the limit seat is connected with the outer side at the lower end of a limit body; a valve body is arranged in the limit body and is sleeved with a return spring; the lower end of the return spring is propped against a step in the limit body, and the upper end of the return spring is propped against a step of the valve body; the spherical surface at the upper end of the valve body is matched with the lower cambered surface of the suspension body to form a sealed state. The backflow preventing device realizes safe well cementation, can prevent cement paste from flowing back, has the characteristics of high backflow preventing pressure, backflow preventing reliability, simple structure and convenience in use, and overcomes the defects that in the prior art, cement paste flows back after well cementation bumping, a cement plug exists in a pipe and cement outside the pipe flows back at a velocity.

Classifications:

International (IPC 8-9): E21B34/06 (Advanced/Invention)

PatBase - CN103225493_A

CN 103225493 A 说明书附图 1/3 页

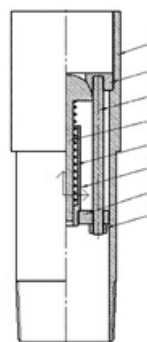


图 1

Family:

Publication number	Publication date	Application number	Application date
 CN103225493 A	20130731	CN201310123193	20130410

Priority:

CN201310123193 20130410

Probable Assignee: CHINA NAT PETROLEUM CORP

Assignee(s): (std): CHINA NAT PETROLEUM CORP ; CNPC GREATWALL DRILLING CO ; GREAT WALL DRILLING CO

Inventor(s): (std): HE CHANJUAN ; REN XIANZHONG ; ZHANG RUI ; HU JINCHUAN ; HU XINGFU ; BI DONG ; JI CHUNHUI ; XU GUORONG ; GUO LINA ; WANG QIANG

2) Family number: 74403199 (CN109779555A)

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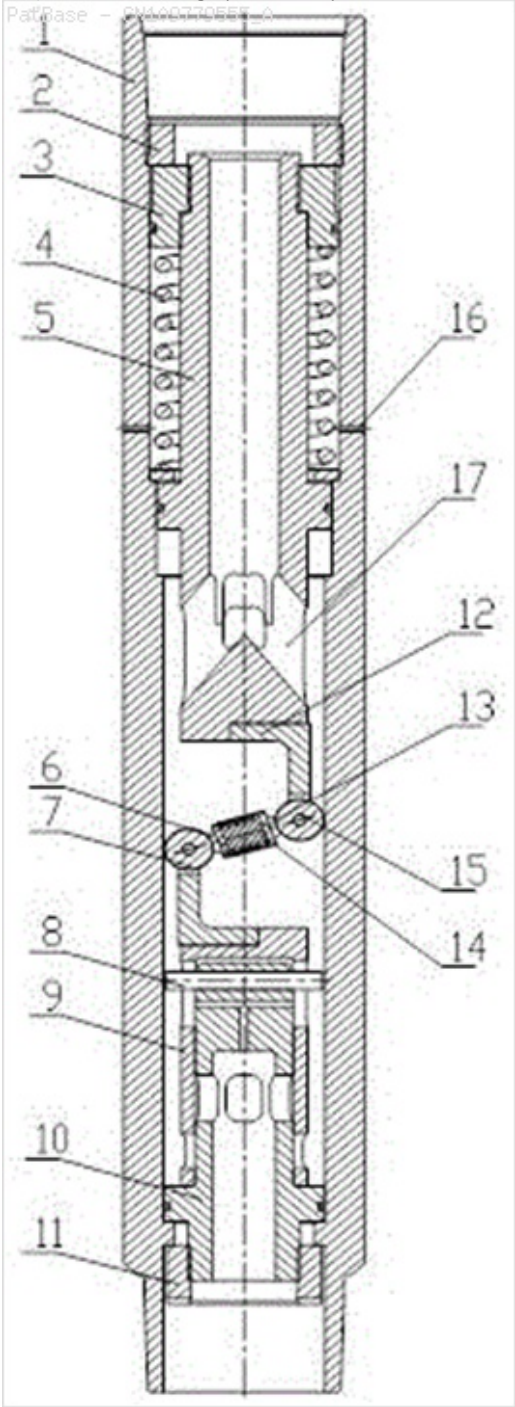
Title: VALVE TYPE VIBRATION WELL CEMENTATION TOOL

Abstract: The invention relates to a valve type vibration well cementation tool which comprises a sleeve, and a spring core cylinder, a spring, an opposite compression mechanism, a valve sleeve and a valve core which are sequentially arranged in the sleeve from top to bottom. Pressure generated by pressure difference of liquid inside and outside the sleeve and elastic potential energy of an elastic element are mutually converted, so that the structure that cement slurry or drilling fluid in the casing string and the annulus vibrates is realized; a pump is started to work in well cementation operation; drilling fluid passes through a circulating intermittent stop valve; cement slurry or drilling fluid in the casing string and the annulus can generate vibration without taking the electricity as the power, the defects that auxiliary equipment of an existing well

cementation vibration device is complex, and various downhole well cementation accidents may be caused are effectively overcome, and the valve type vibration well cementation tool is convenient to manufacture, low in using cost and more suitable for field application. The vibration effect generated by the structure is good and stable, the cement paste displacement efficiency and the curing strength are remarkably improved, and therefore high practicability is achieved.

Classifications:

International (IPC 8-9): E21B28/00 E21B34/08
E21B41/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN109779555 A	20190521	CN201711114472	20171113

Priority:

CN201711114472 20171113

Probable Assignee: SINOPEC OILFIELD SERVICE CORP

Assignee(s): (std): DRILLING TECH RES INST SHENGLI PETROLEUM ENG CO LTD SINOPEC ; DRILLING TECH RESEARCH INST OF SHENGLI PETROLEUM ENGINEERING CO LTD SINOPEC ; DRILLING TECHNOLOGY RESEARCH INST OF SHENGLI PETROLEUM ENGINEERING SINOPEC SLDTI CORP ; SINOPEC PETROLEUM ENGINEERING TECHNOLOGY SERVICE CO LTD ; SINOPEC SHENGLI PETROLEUM ENG CO LTD ; SINOPEC OILFIELD SERVICE CORP

Assignee(s): SINOPEC SHENGLI PETROLEUM ENGINEERING CO ; SINOPEC SHENGLI PETROLEUM ENGINEERING CO LTD ; DRILLING TECHNOLOGY RESEARCH INST OF SHENGLI PETROLEUM ENGINEERING CO

Inventor(s): (std): ZUO LING ; WU ZHONGHUA ; ZHANG RUI ; CHEN YONG ; ZHOU GUOQING ; NIE YUNFEI ; DU WEI

3) Family number: 59025250 (WO16078627A1)

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Title: PRODUCTION ENHANCEMENT SYSTEM USING ROBOT DRILL FOR DRILLING MULTI-BRANCHED FISHBONE AND RADIAL MICROHOLES IN SHALE GAS RESERVOIR, AND METHOD THEREFOR

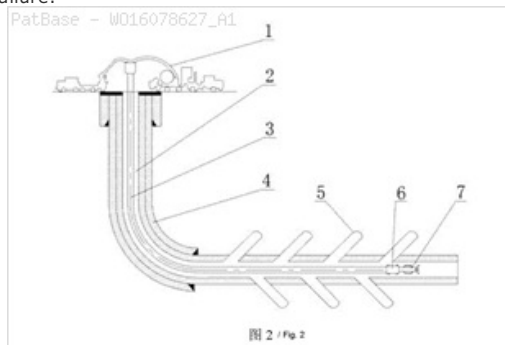
Abstract: A production enhancement system using a robot drill for drilling multi-branched fishbone and radial microholes in shale gas reservoirs, comprising a system for a robot drill drawing coiled tubing and drilling multi-branch fishbone horizontal holes, a well-finishing system for a robot drill drawing coiled tubing and drilling small-bore branch holes, and a system for blasting and transformation in multi-branch fishbone horizontal holes. The system for a robot drill drawing coiled tubing and drilling multi-branch fishbone horizontal holes is used for drilling multilevel fishbone horizontal holes, providing a foundation for well-finishing and increasing production through blast-fracturing and transformation; the well-finishing system for a robot drill drawing coiled tubing and drilling small-bore branch holes is used for well-finishing operations in multilevel fishbone horizontal holes where drilling is completed. Also disclosed is a method for finishing well drilling and increasing production. The present production enhancement system and method realize low-cost, high-efficiency, safe, environmentally-friendly production, and avoid such drawbacks of long horizontal holes and staged, large-scale fracturing as the attendant waste of water and sand, high water pollution risks, and deep-well fracturing failure.

Classifications:

International (IPC 8-9): E21B33/13 E21B43/263

E21B7/04 (Advanced/Invention)

CPC: E21B7/04 E21B7/046 E21B43/263



Family:

Publication number	Publication date	Application number	Application date
CA2943638 AA	20160923	CA20152943638	20151231
CA2943638 C	20180522	CA20152943638	20151231
CN104533287 A	20150422	CN201410665275	20141120
CN104533287 B	20170308	CN201410665275	20141120
CN104533288 A	20150422	CN201410665671	20141120
CN104533288 B	20170308	CN201410665671	20141120
WO16078627 A1	20160526	WO2015CN100360	20151231

Priority:

CN201410665275 20141120 CN201410665671 20141120 WO2015CN100360 20151231

Probable Assignee: UNIV SOUTHWEST PETROLEUM

Assignee(s): (std): UNIV SOUTHWEST PETROLEUM ; UNIV XIHUA ; XIHUA UNIV ; SOUTHWEST PETROLEUM UNIV

Assignee(s): TAO LEI ; LIU QINGYOU ; ZHU HAIYAN

Inventor(s): (std): ZHU HAIYAN ; TAO LEI ; LIU QINGYOU

Agent(s): DEETH WILLIAMS WALL LLP; CHENGDU JINYING PATENT FIRM

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

4) Family number: 74403261 (CN109779556A)

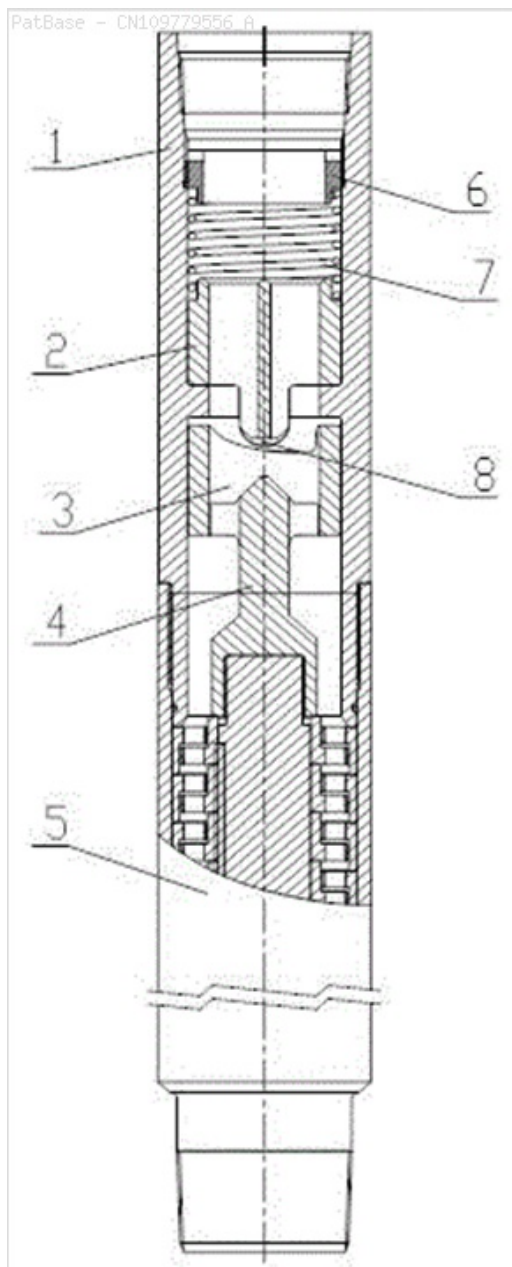
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Title: MECHANICAL VIBRATION WELL CEMENTATION TOOL

Abstract: The invention relates to a mechanical vibration well cementation tool which comprises an impacted shell, a vibrating hammer, a vibration starting body, a transmission shaft, a turbine motor, a springspacer sleeve, an elastic element and a roller. The turbine motor drives the vibration starting body to rotate through the transmission shaft; a cam pair at the upper end of the vibration starting body pushes the vibrating hammer to do axial reciprocating motion through the roller; the vibrating hammer is simultaneously subjected to the pressure of the elastic element and the water hammer throttling pressure; when the cam pair pushes the vibrating hammer to move upwards, the vibrating hammer accumulates energy, when the cam pair suddenly changes, the vibrating hammer releases energy to impact the impacted shell downwards, the impact generated energy is large, the propagation distance is long, the cement displacement efficiency and the well cementation quality can be effectively improved, and the tool can be used for vibration well cementation of a vertical well, a large-displacement well, a directional well and a horizontal well and is simple in structure, reliable in operation and low in construction risk.

Classifications:

International (IPC 8-9): E21B28/00 E21B33/13 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
■ CN109779556 A	20190521	CN201711116132	20171113

Priority:

CN201711116132 20171113

Probable Assignee: SINOPEC OILFIELD SERVICE CORP

Assignee(s): (std): DRILLING TECH RES INST SHENGLI PETROLEUM ENG CO LTD SINOPEC ; DRILLING TECH RESEARCH INST OF SHENGLI PETROLEUM ENGINEERING CO LTD SINOPEC ; DRILLING TECHNOLOGY RESEARCH INST OF SHENGLI PETROLEUM ENGINEERING SINOPEC SLDTI CORP ; SINOPEC PETROLEUM ENGINEERING TECHNOLOGY SERVICE CO LTD ; SINOPEC SHENGLI PETROLEUM ENG CO LTD ; SINOPEC OILFIELD SERVICE CORP

Assignee(s): SINOPEC SHENGLI PETROLEUM ENGINEERING CO ; SINOPEC SHENGLI PETROLEUM ENGINEERING CO LTD ; DRILLING TECHNOLOGY RESEARCH INST OF SHENGLI PETROLEUM ENGINEERING CO

Inventor(s): (std): DU WEI ; NIE YUNFEI ; ZHOU GUOQING ; CHEN YONG ; ZHANG RUI ; WU ZHONGHUA ; ZUO LING

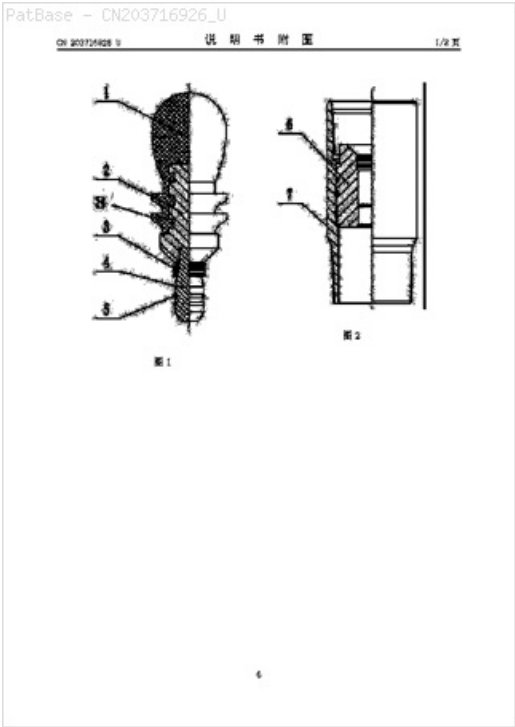
5) Family number: 56921327 (CN203716926U)

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Title: BUMPING WELL CEMENTATION TOOL FOR LONG HORIZONTAL SECTION WELL

Abstract: The utility model discloses a bumping well cementation tool for a long horizontal section well. The tool comprises a base, a rubber plug body, a self-locking head and a bumping self-locking seat matched with the self-locking head in a bumping manner, wherein the rear part of the rubber plug body is spherical or ellipsoidal, and the cylindrical front part of the rubber plug body is clamped at the upper part of the base; a wing panel is arranged on the outer wall at the front part of the rubber plug body; the lower part of the base is connected with the self-locking head; the bumping self-locking seat is arranged in a shell; the self-locking head is locked on the bumping self-locking seat and is in seal fit with the bumping self-locking seat after bumping. According to the tool, the surface of contact between the side surface and the wall of a casing pipe is larger after the tool enters the casing pipe, larger force and area of contact between the side surface and the wall of the casing pipe can be always kept due to a push force of liquid pumped into the upper part of the rubber plug, the automatic compensation effect after abrasion is formed, and the self-locking head can be matched with the bumping self-locking seat in the bumping manner for realizing self-locking seal to prevent the liquid from flowing back.

Classifications:
International (IPC 8-9): E21B33/134 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN203716926 U	20140716	CN201320761671U	20131128

Priority:

CN201320761671U 20131128

Probable Assignee: CHINA NAT PETROLEUM CORP

Assignee(s): (std): CHINA NAT PETROLEUM CORP ; CNPC CHUANQING DRILLING ENG CO ; CNPC SICHUAN PETROLEUM GEOPHYSICAL PROSPECTING CO

Assignee(s): CNPC CHUANQING DRILLING ENGINEERING CO LTD

Inventor(s): (std): LIU YUNLOU ; SHI LEI ; ZHANG YICHAO ; TANG XIN ; LI BIN

6) Family number: 48141336 (CN201695991U) © PatBase

Title: OIL FIELD WELL CEMENTATION TOOL WITH DRILLING-FREE CAPACITY

Abstract: The utility model relates to the field of oil field well cementation, and relates to an oil field well cementation tool with drilling-free capacity in particular which includes a guide shoe, a sieve tube, a blind plate component, an external packer, a grading hoop, and a bushing string; the blind plate component consists of an upper joint, a lower joint and a blind plate; the blind plate is arranged between the upper joint and the lower joint; the oil field well cementation tool with drilling-free capacity is characterized in that the thickness of the blind plate is selected to be between 1 and 3mm; the blind plate is a manganese-aluminum disk plate; and a blind line is arranged on the blind plate. The utility model provides an oil field well cementation tool with drilling-free capacity which can improve the well cementation aging, and save a plurality of drilling costs.

Classifications:
International (IPC 8-9): E21B33/13 (Advanced/Invention)



图1

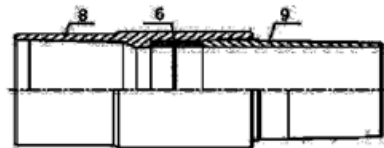


图2

5

Family:

Publication number	Publication date	Application number	Application date
 CN201695991 U	20110105	CN201020249065U	20100706

Priority:

CN201020249065U 20100706

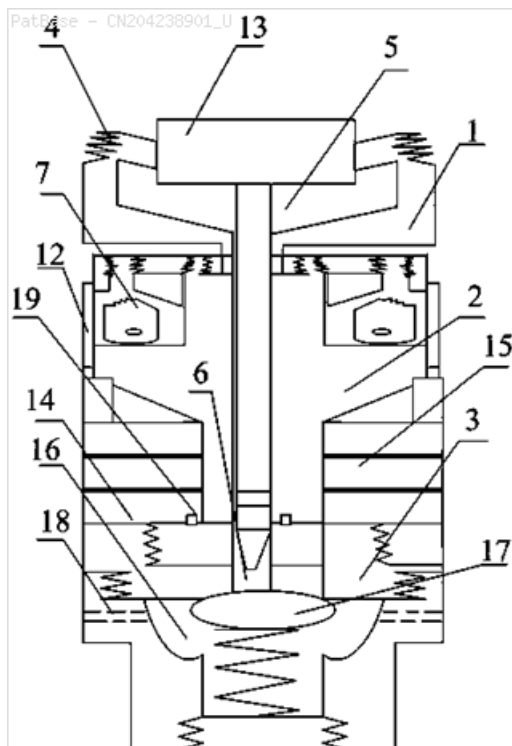
Probable Assignee: CHINA NAT PETROLEUM CORP**Assignee(s):** (std): CHANGQING GUJING CO OF CNPC CHUANQING DRILLING ENG CO LTD ; CHANGQING GUJING COMPANY OF CNPC CHUANQING DRILLING ENGINEERING CO LTD ; CHINA NAT PETROLEUM CORP**Assignee(s):** CHANGQING GUJING CO OF CNPC CHUANQING DRILLING ENGINEERING CO ; CHANGQING GUJING COMPANY OF CNPC CHUANQING DRILLING ENGINEERING CO**Inventor(s):** (std): ZHI JIA ; HUQING DOU ; DAQUAN WANG ; HONGFENG LI**Inventor(s):** WANG DAQUAN ; DOU HUQING ; LI HONGFENG ; JIA ZHI**7) Family number: 58601387** (CN204238901U)

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Title: WELL CEMENTATION TOOL WITH COMBINED STRUCTURE

Abstract: The utility model provides a well cementation tool with a combined structure. The well cementation tool comprises an upper part body, a middle body, a lower part body, a thread part, an upper part body cavity, a cavity, locking members, pivot pins, springs, screw groups, wedges, an upper sleeve, a plug, a steel pipe sleeve, a rubber sleeve, a ball chamber, a ball, a lower part body hole and a hardened seat ring, wherein the upper part body sleeves the upper part of the middle body through the upper sleeve, the lower part body is mounted at the lower part of the middle body through the steel pipe sleeve, the thread part is arranged at the uppermost part of the upper part body, and the upper part body cavity is formed inside the upper part body. According to the well cementation tool with the combined structure, through arranging the plug, the ball chamber, the wedges and the thread part, the forming of good sealing performance is facilitated, and any reflux of cement materials is prevented; by being matched with the plug, the prevention of unexpected flowing of any direction of gelatinization materials is facilitated, and the use is further facilitated.

Classifications:**International (IPC 8-9):** E21B33/13 (Advanced/Invention)**CPC:** E21B33/13



Family:

Publication number	Publication date	Application number	Application date
CN104389550 A	20150304	CN201410596002	20141030
CN204238901 U	20150401	CN201420637573U	20141030

Priority:

CN201410596002 20141030 CN201420637573U 20141030

Probable Assignee: ZHENGZHOU SHENLIDA DRILLING EQUIPMENT CO LTD

Assignee(s): (std): ZHENGZHOU SHENLIDA DRILLING EQUIPMENT CO LTD

Assignee(s): DRILLING EQUIPMENT CO LTD ZHENGZHOU GOD LEADER ; ZHENGZHOU SHENLIDA DRILLING EQUIPMENT CO

Inventor(s): (std): ZHENG BAILIN ; ZHENG GUORONG

8) Family number: 58306408 (CN104295262A)

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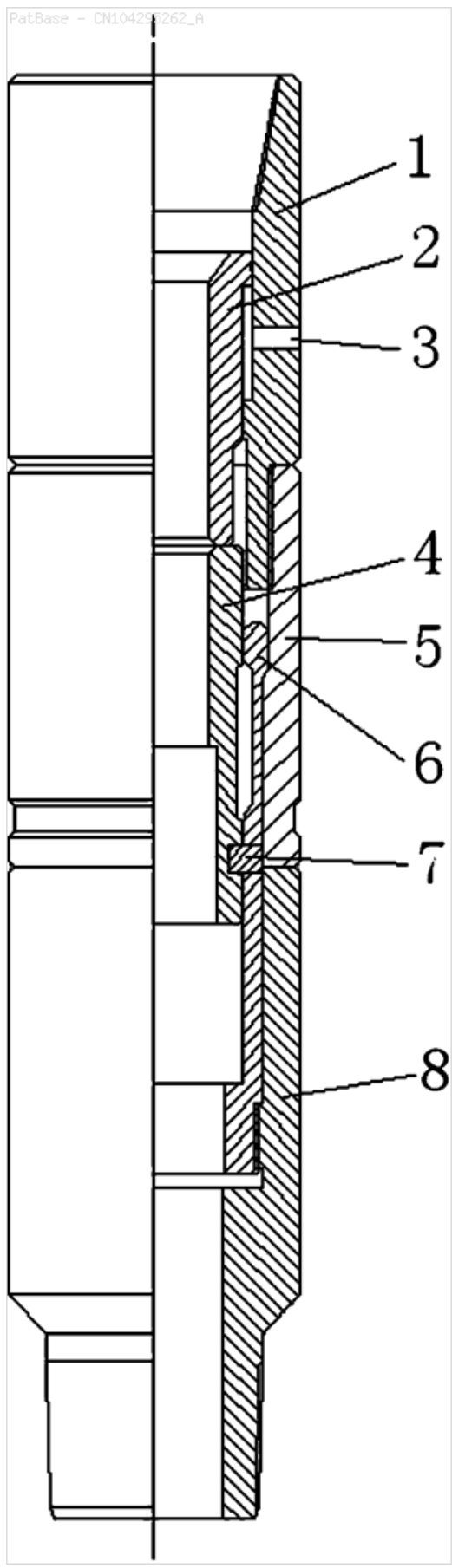
Title: GUIDE PIPE WELL CEMENTATION RELEASING DEVICE

Abstract: The invention relates to a petroleum well cementation tool, in particular to a guide pipe well cementation releasing device. A middle pipe is connected with the lower end of an upper pipe of the guide pipe well cementation releasing device, a pressure releasing hole is formed in the upper pipe, the lower end of a collet is connected to the inner wall of a lower pipe, the lower end of a lower sliding sleeve is connected to the inner side of the collet through a pin, the upper end of the collet is opened through the lower sliding sleeve and hung on a step of the inner wall of the middle pipe, an upper sliding sleeve is arranged at the upper end of the lower sliding sleeve and seals the pressure releasing hole, an outwards-protruding step is arranged at the upper end of the upper sliding sleeve, and a step is arranged at the portion, at the lower end of the pressure releasing hole, of the inner wall of the upper pipe. By means of the guide pipe well cementation releasing device, cement paste is prevented from being polluted by drilling fluid when a drilling tool is pulled out, the well cementation quality is improved, long-well-section one-time well cementation can be achieved, the drilling machine waiting time can be saved, the field operation can be simple, and the use cost can be low. The defects that existing open hole well cementation cement paste is easily polluted by the drilling fluid, segmented well cementation is further needed when cementing well sections are long, working procedures are complex, and the well cementation period is long are overcome.

Classifications:

International (IPC 8-9): E21B33/13 (Advanced/Invention)

CPC: E21B33/13



Family:

Publication number	Publication date	Application number	Application date
 CN104295262 A	20150121	CN201410395228	20140812

Priority:

CN201410395228 20140812

Probable Assignee: CHINA NAT PETROLEUM CORP

Assignee(s): (std): CHINA NAT PETROLEUM CORP ; CNPC GREATWALL DRILLING CO ; GREAT WALL DRILLING CO

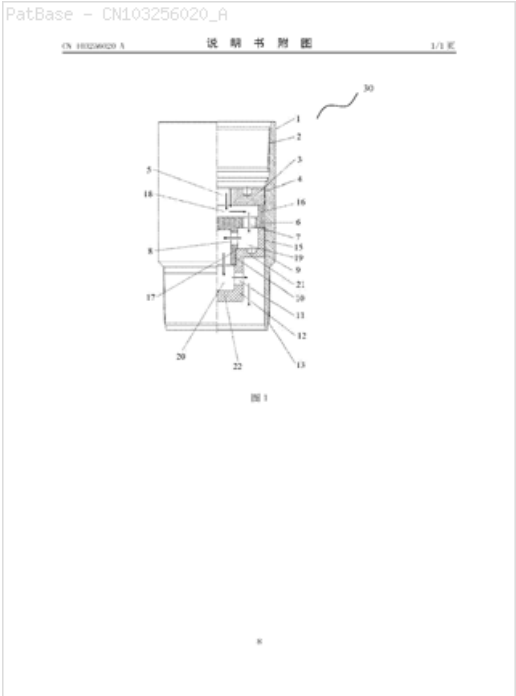
Inventor(s): (std): LU YANGYANG ; WANG JIALU ; ZENG YANCHUN ; REN HAIYANG ; LI BIN ; YAO JIANPENG ; LIN GANG ; YANG HUIJUAN

Title: WELL CEMENTATION BUFFER

Abstract: The invention relates to a well cementation buffer and belongs to the field of petroleum machinery. The well cementation buffer comprises a casing communicated with a pipe string and a first buffer component arranged in the casing and provided with a first overflowing hole. At least one additional buffer component is arranged on the downstream of a baffle along the fluid flowing direction, an additional overflowing hole is arranged on the additional buffer component, and a curve fluid flowing channel is formed in the buffer. By means of the well cementation buffer, flowing speed of cement slurry can be reduced remarkably, protection of a well cementation tool on the lower portion of the buffer is achieved, and annulus blocking probability can be reduced remarkably.

Classifications:

International (IPC 8-9): E21B33/13 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
■ CN103256020 A	20130821	CN201210040813	20120221
■ CN103256020 B	20160406	CN201210040813	20120221

Priority:

CN201210040813 20120221

Probable Assignee: CHINA PETROLEUM AND CHEMICAL

Assignee(s): (std): CHINA PETROLEUM AND CHEMICAL ; CHINA PETROLEUM AND CHEMICAL CORP ; SINOPEC RES INST PETROLEUM

Assignee(s): SINOPEC RESEARCH INST OF PETROLEUM ENGINEERING

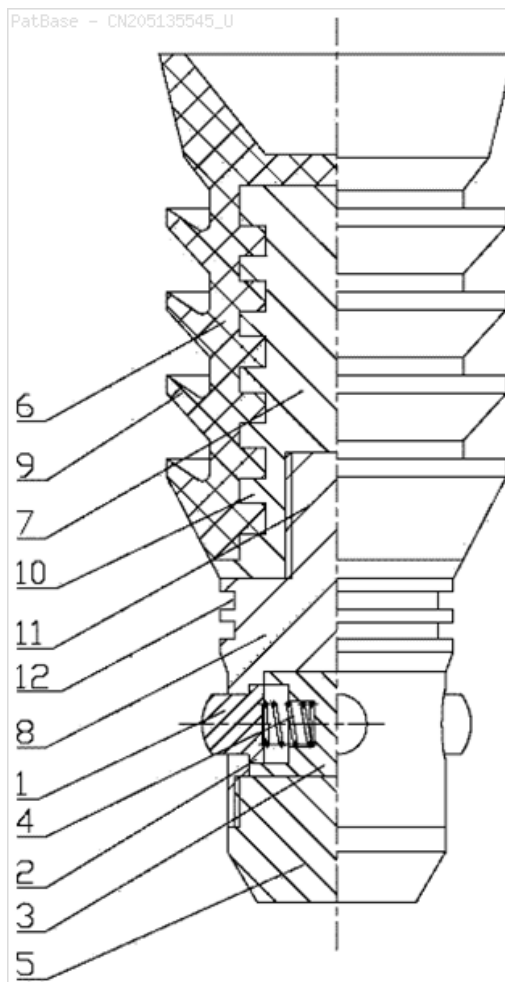
Inventor(s): (std): LIU YANG ; ZHOU FUXIN ; WU JIHAO ; ZHANG MINGCHANG

Title: PLAY COLUMN TYPE AUTO -LOCK PLUG AND PLAY COLUMN TYPE SELF -LOCK DEVICE

Abstract: (B,) the utility model relates to a well cementation tool technical field, a play column type auto -lock plug and play column type self -lock device, the former is including well cementation plug body and bullet post, the lower part inboard of well cementation plug body is equipped with the cavity, it has at least one and the communicating mounting hole of cavity to distribute along the circumference on the lateral wall of corresponding cavity location's well cementation plug body, all overlap in every mounting hole to be equipped with and to follow the inside and outside flexible bullet post of mounting hole axis, the inner outside that plays the post is equipped with and prevents its stopper that drops from mounting hole in. The latter is including playing column type auto -lock plug and float collar, and the inboard middle part of float collar is equipped with the inner ring platform, and the top surface of inner ring platform is big young back taper platform form down suitable for reading. The utility model discloses mechanical structure realization auto -lock is passed through to the structure, easy operation, and convenient to use, the reliability is high, and the sealed effect between bullet column type auto -lock plug and the float collar just can be improved through the auto -lock to difficult the inefficacy, and the intraductal problems of staying the cement stopper are overlapped because of seal failure results in grout reflux, formation more to effective the elimination. (B,)

Classifications:

International (IPC 8-9): E21B33/13 E21B33/134 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
■ CN205135545 U	20160406	CN201520904051U	20151113

Priority:

CN201520904051U 20151113

Probable Assignee: CHINA NAT PETROLEUM CORP

Assignee(s): (std): CHINA NAT PETROLEUM CORP ; CNPC GROUP WESTERN DRILLING ENG CO LTD ; CNPC XIBU DRILLING ENGINEERING CO LTD

Assignee(s): CNPC GROUP WESTERN DRILLING ENGINEERING CO

Inventor(s): (std): FU TE ; FU XIAODONG ; CHENG YONGWEI ; LIN JIANZENG ; ZHENG YONGSHENG ; YU YOUYU

11) Family number: 43340686 (CN201236667Y)

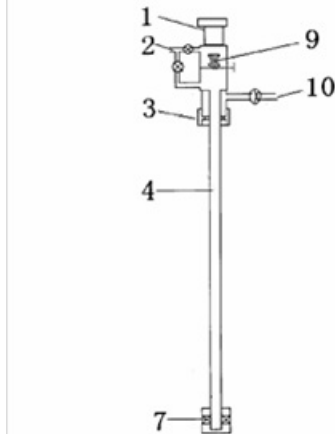
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Title: Well cementing assisted tool of cement paste expansion sealing tube external packer

Abstract: The utility model relates to an ancillary well cementation tool for a cement slurry expansion sealing casing external packer used for petroleum well cementation. The technical proposal adopted by the utility model is as follows: the tool mainly comprises a lifting pipe nipple, an injection manifold, a connection hoop, a center pipe, a casing sealing device, a touch pressing rubber plug and a draining manifold; the lifting pipe nipple, the injection manifold and the center pipe are movably connected with each other to form an integrated structure; two gateways of the injection manifold are communicated with the center pipe; a valve on the injection manifold is used for controlling the order of the closure of the upper gateway and the lower gateway; and when well cementation touch pressing occurs, the lower gateway is closed and the upper gateway is opened, and well cementation displacing liquid substituting the touch pressing rubber plug through the upper gateway of the injection manifold can realize touch pressing. The utility model has the following beneficial effects: first, by using cement slurry to fill a casing external packer, different pressure layers, water layers, gas layers, oil layers and the like can be separated from each other, so that the problems of interlayer interference and interlayer mutual flowing on completion of the well cementation can be effectively solved; and second, by using cement slurry to fill the casing external packer, a permanent pack can be formed, thereby protecting the oil gas layer and facilitating the production and the operation.

Classifications:

International (IPC 8-9): E21B33/12 E21B33/13 (Advanced/Invention);
E21B33/12 E21B33/13 (Core/Invention)

**Family:**

Publication number	Publication date	Application number	Application date
 CN201236667 Y	20090513	CN200820020707U	20080415

Priority:

CN200820020707U 20080415

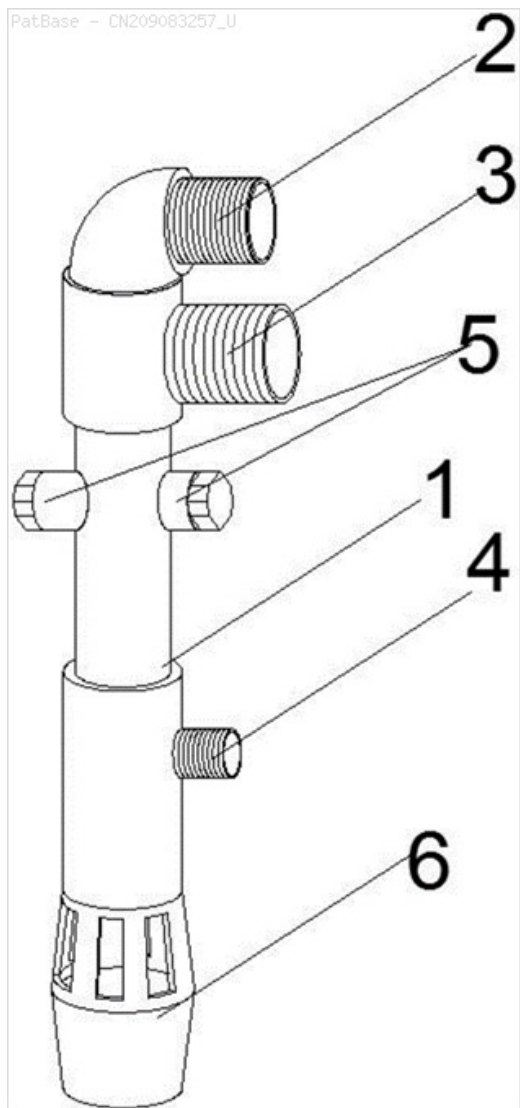
Probable Assignee: SINOPEC SHENGLI PETROLEUM ADMI**Assignee(s):** (std): SINOPEC SHENGLI PETROLEUM ADMI**Assignee(s):** SINOPEC SHENGLI PETROLEUM ADMINISTRATION BERGOL EXPLOITURE LOCA**Inventor(s):** (std): JIGUO ZHANG ; JINLING YU ; JUHONG CAI ; WEI ZHANG ; XUEMIN GUO ; YANMIN JI ; YUNFEI JIA ; ZHENJIANG LI ; ZHIYONG ZHAO**Inventor(s):** ZHANG JIGUO ; ZHANG WEI ; ZHAO ZHIYONG ; YU JINLING ; LI ZHENJIANG ; CAI JUHONG ; GUO XUEMIN ; JI YANMIN ; JIA YUNFEI**12) Family number: 75021827** (CN209083257U)

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Title: OIL FIELD WELL CEMENTATION TOOL

Abstract: The utility model relates to an oil field well cementation tool. The device comprises a slurry inlet, a residual slurry port, an air inlet, an exhaust and slurry discharge standby port, a straight-through pipe and a cement umbrella, wherein the air inlet is formed in the topmost end of the straight-through pipe, the slurry inlet is formed in the upper section of the straight-through pipe, the exhaust slurry discharge standby port is formed in the middle section of the straight-through pipe, the residual slurry port is formed in the lower section of the straight-through pipe, the cement umbrella is connected to the bottommost end of the straight-through pipe through threads, and the slurry inlet, the air inlet, the residual slurry port and the exhaust slurry discharge standby port are integrally formed. The device is advanced, serves as a tool for sealing and pouring channels of oil field well cementation, the cement umbrella is arranged at the bottom end, brand new improvement is achieved, pouring work can be carried out more smoothly, blocking and splashing are avoided, the straight-through pipe and all the entrances and exits are made of refined steel materials, and the device is firm, durable, long in service life and suitable for application and popularization.

Classifications:**International (IPC 8-9):** E21B33/13 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
 CN209083257 U	20190709	CN201822016060U	20181204

Priority:

CN201822016060U 20181204

Probable Assignee: YANAN BAOTA BEIPENG ZHONGYUAN DRILLING AND PRODUCTION SERVICE CO LTD

Assignee(s): (std): YANAN BAOTA BEIPENG ZHONGYUAN DRILLING AND PRODUCTION SERVICE CO LTD

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Inventor(s): (std): LIU BING ; ZHANG YI

13) Family number: 75628940 (CN209293743U)

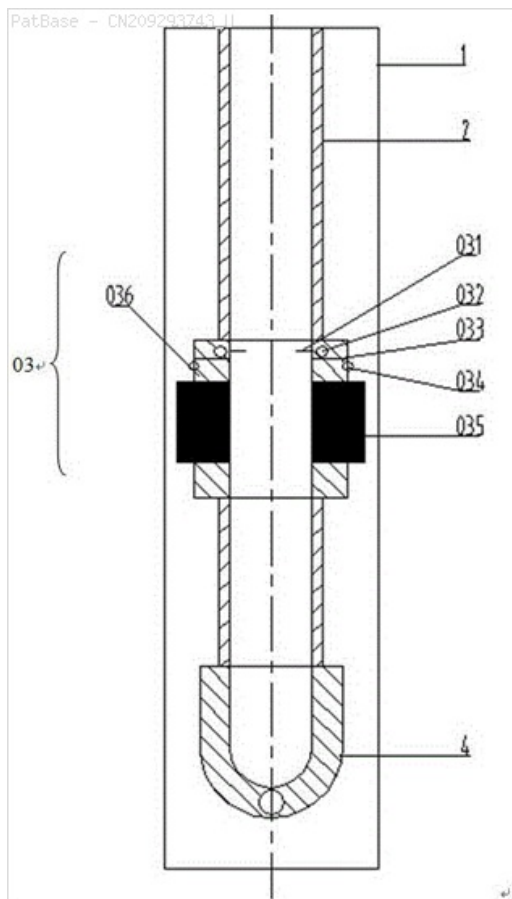
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Title: SEGMENTED WELL CEMENTATION TOOL

Abstract: The utility model provides a segmented well cementation tool. The device comprises a central pipe mechanism, at least one group of piston mechanisms, at least one group of cement suction mechanisms, at least one group of cement injection mechanisms, at least one group of rubber sleeve sealing mechanisms and at least one shear pin, the central pipe mechanism is sleeved with the piston mechanism, the cement suction mechanism, the cement injection mechanism and the rubber sleeve sealing mechanism. Wherein the upper end or the lower end of the rubber sleeve sealing mechanism is connected with the cement injection mechanism, the cement injection mechanism is connected with the cement suction mechanism, the cement suction mechanism is connected with the piston mechanism, the outer end of the shear pin is plugged in a radial pressure transmission hole formed in the central pipe mechanism, and the inner end of the shear pin extends into an inner cavity of the central pipe mechanism.

Classifications:

International (IPC 8-9): E21B33/13 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
■ CN209293743 U	20190823	CN201821740883U	20181025

Priority:

CN201821740883U 20181025

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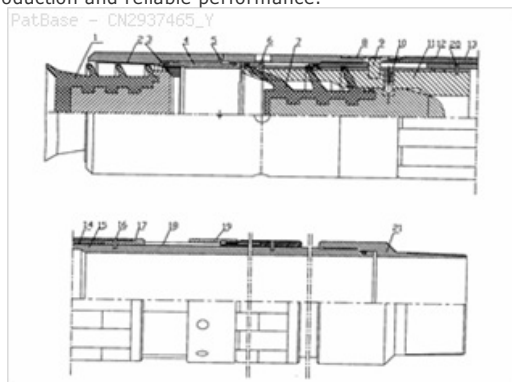
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Title: Semi-procedure well cementation tool

Abstract: A half-path cementing tool for use in well cementing and completion work in oil/gas field exploration comprises a top plug, a bottom plug, a stage cementing distributor assembly and a lower joint etc, characterized in that lower body of the stage cementing distributor has two cement umbrellas which may be opened simultaneously, each cement umbrella consisting of a spring leaf, a thin steel sheet and an umbrella stay ring. When cement umbrellas are pressed into pressing sleeves in assembly and fixed to the lower body via cutting screws; the lower body has opened two axis-directional slots in clearance moving fit with a pin, which is fixed to the bottom plug with the exposing height larger than that of the external steel sleeve; a lower pressing sleeve is welded to the lower body, inner circle of the lower pressing sleeve having opened four recesses in clearance moving fit with for dowel bars. Compared with conventional combination of external casing packer, blind plate joints and hydraulic stage cementing distributor, the utility model has low cost of half-path well cementing and additionally, has advantages of compact structure, convenient production and reliable performance.

Classifications:

International (IPC 8-9): E21B33/13 (Advanced/Invention); E21B33/13 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
 CN2937465 Y	20070822	CN200620116862U	20060515

Priority:

CN200620116862U 20060515

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