

Title (en)

PRESSURE AND FLOW CONTROL IN CONTINUOUS FLOW DRILLING OPERATIONS

Title (de)

DRUCK- UND STRÖMUNGSSTEUERUNG BEI BOHROPERATIONEN MIT KONTINUIERLICHEM FLUSS

Title (fr)

RÉGULATION DE PRESSION ET D'ÉCOULEMENT DANS DES EXPLOITATIONS DE FORAGE À ÉCOULEMENT CONTINU

Publication

EP 3033481 A4 20170405 (EN)

Application

EP 13897771 A 20131121

Priority

US 2013071221 W 20131121

Abstract (en)

[origin: WO2015076808A1] A method of providing substantially continuous circulation of fluid through a drill string and an annulus can include sealing off the annulus from atmosphere, regulating flow of the fluid from the annulus, thereby controlling pressure in the wellbore, and diverting flow of the fluid from a pump to an uppermost connector of the drill string and an inlet extending in a sidewall of the drill string, the regulating and the diverting being performed concurrently. A pressure and flow control system can include one or more flow control devices which divert flow from a pump to a valve which selectively permits and prevents communication between an uppermost connector of the drill string and a flow passage extending longitudinally through the drill string, and to a valve which selectively permits and prevents communication between the flow passage and an inlet extending in a sidewall of the drill string.

IPC 8 full level

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CPC (source: EP US)

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E21B 21/01 (2013.01 - EP)

Citation (search report)

- [X1] US 2013068532 A1 20130321 - BANSAL RAM K [US], et al
- [I] US 2011155379 A1 20110630 - BAILEY THOMAS F [US], et al
- [E] WO 2015023411 A1 20150219 - CANRIG DRILLING TECH LTD [US]
- [A] US 2012285744 A1 20121115 - BERNARD CHRISTOPHER J [US]
- See also references of WO 2015076808A1

Designated contracting state (EPC)

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DOCDB simple family (application)

US 2013071221 W 20131121; EP 13897771 A 20131121; US 201314387174 A 20131121