

Title (en)
ACTIVE IN-SITU CONTROLLED PERMANENT DOWNHOLE DEVICE

Title (de)
AKTIVE VOR ORT GESTEUERTE PERMANENTE BOHRLOCHVORRICHTUNG

Title (fr)
DISPOSITIF PERMANENT DE FOND DE TROU À COMMANDE ACTIVE IN SITU

Publication
EP 2414628 A4 20140806 (EN)

Application
EP 10762118 A 20100325

Priority

- US 2010028679 W 20100325
- US 41528909 A 20090331

Abstract (en)
[origin: US2010243243A1] A well system is provided and configured for local and/or global control of a well. The well system may comprise one or more controllable downhole devices. Each of the downhole devices may include a telemetry module, an energy module configured to at least power an actuator, a controller communicably coupled to the telemetry module and one or more sensors, and a controllable component coupled to the actuator. The well system may further include a surface controller comprising a desired state input device configured to accept a desired state and then provide the desired state to the controller via the telemetry module. The controller may compare the desired state to an actual state determined by a sensor and instruct the actuator to adjust the controllable component such that the actual state approaches the desired state. The downhole device may operate autonomously after the initial setting of the desired state.

IPC 8 full level
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CPC (source: EP US)
E21B 34/16 (2013.01 - EP US); **E21B 41/0035** (2013.01 - EP US); **E21B 47/12** (2013.01 - EP US)

Citation (search report)

- [X] US 5531270 A 19960702 - FLETCHER PAUL A [US], et al
- [A] US 5941307 A 19990824 - TUBEL PAULO [US]
- See also references of WO 2010117659A1

Cited by
US10669810B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
US 2010243243 A1 20100930; BR PI1010266 A2 20160322; EP 2414628 A1 20120208; EP 2414628 A4 20140806;
WO 2010117659 A1 20101014

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