

Title (en)
A DIRECTIONAL CORE DRILL ASSEMBLY

Title (de)
RICHTKERNBOHRERVORRICHTUNG

Title (fr)
ENSEMBLE CAROTTIER DIRECTIONNEL

Publication
EP 3710669 A1 20200923 (EN)

Application
EP 18811461 A 20181116

Priority
• NO 20171838 A 20171117
• EP 2018081552 W 20181116

Abstract (en)
[origin: WO2019096990A1] The present invention relates to directional core drilling operations in the bedrock, and in particular an apparatus and method for steering a core barrel in a pre-defined path and at same time collect core samples of the bedrock, using said core barrel. In particular the invention describes an apparatus and method for controlling the pressure applied to a packer assembly in said drilling system. More specifically to provide a device and method for the pressurization of a directional core drill packer assembly that ensure the packer pads are exposed to a predefined pressure regardless of flow rate. Furthermore a system that enables adjustment of the predefined pressure without pulling the drill to the surface as well as adjustment of the toolface in a steerable drilling tool where the down hole system presspressure is pre-defined to only one specific value.

IPC 8 full level
E21B 25/02 (2006.01); **E21B 7/06** (2006.01); **E21B 33/12** (2006.01); **E21B 34/10** (2006.01)

CPC (source: EP NO)
E21B 7/06 (2013.01 - EP); **E21B 25/02** (2013.01 - EP NO); **E21B 25/16** (2013.01 - NO); **E21B 33/12** (2013.01 - EP); **E21B 34/10** (2013.01 - EP); **E21B 47/026** (2013.01 - NO)

Cited by
WO2023280480A1

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2019096990 A1 20190523; AU 2018367221 A1 20200604; AU 2018367221 B2 20240418; CA 3082745 A1 20190523; EP 3710669 A1 20200923; EP 3710669 B1 20211013; NO 20171838 A1 20190520; NO 344679 B1 20200302

DOCDB simple family (application)
EP 2018081552 W 20181116; AU 2018367221 A 20181116; CA 3082745 A 20181116; EP 18811461 A 20181116; NO 20171838 A 20171117