

Title (en)

COVER LAYER DRILLING DEVICE AND METHOD FOR DRILLING A CORE IN A COVER LAYER

Title (de)

DECKSCHICHTBOHRVORRICHTUNG UND VERFAHREN ZUM BOHREN EINES KERNS IN EINE DECKSCHICHT

Title (fr)

DISPOSITIF DE PERÇAGE DE COUCHE DE RECOUVREMENT ET PROCEDE DE PERÇAGE D'UN NOYAU DANS UNE COUCHE DE RECOUVREMENT

Publication

**EP 3073044 A1 20160928 (DE)**

Application

**EP 16000701 A 20160324**

Priority

DE 102015003909 A 20150327

Abstract (en)

[origin: US2016281433A1] A top surface drilling device has a core bit and a drill head disposed in the core bit. The drill head has a smaller diameter than that of the core bit, and the core bit and the drill head can be driven at different angular speeds.

Abstract (de)

Die Erfindung betrifft eine Deckschichtbohrvorrichtung, wobei in einer Bohrkrone ein Bohrkopf mit einem kleineren Durchmesser als der der Bohrkrone angeordnet ist und die Bohrkrone und der Bohrkopf mit unterschiedlicher Winkelgeschwindigkeit antreibbar sind.

IPC 8 full level

**E21B 4/00** (2006.01); **E21B 7/00** (2006.01); **E21B 7/04** (2006.01); **E21B 7/30** (2006.01); **E21B 10/02** (2006.01); **E21B 10/64** (2006.01); **F16H 1/28** (2006.01)

CPC (source: EP US)

**E21B 4/006** (2013.01 - EP US); **E21B 7/002** (2013.01 - EP US); **E21B 7/046** (2013.01 - EP US); **E21B 10/02** (2013.01 - EP US); **E21B 10/64** (2013.01 - EP US)

Citation (applicant)

DE 102010013725 A1 20111006 - GDF SUEZ [FR], et al

Citation (search report)

- [XY] DE 19704263 C1 19980813 - KLEMM GUENTER W [AT]
- [XY] WO 2012027271 A2 20120301 - WELLS DAVID A H [US]
- [A] GB 686372 A 19530121 - SONAPAR SOC DE PARTICIPATION
- [A] US 3181631 A 19650504 - NIELSEN IRVIN P

Cited by

EP3710640A4; US11530574B2

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)

**EP 3073044 A1 20160928; EP 3073044 B1 20210929**; DE 102015003909 A1 20160929; US 10443311 B2 20191015; US 2016281433 A1 20160929

DOCDB simple family (application)

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