

Title (en)
DRILLING DEVICE

Title (de)
BOHRVORRICHTUNG

Title (fr)
DISPOSITIF DE FORAGE

Publication
EP 3060742 B1 20190130 (EN)

Application
EP 13895833 A 20131022

Priority
FI 2013000041 W 20131022

Abstract (en)
[origin: WO2015059341A1] Drilling device which comprises a pilot bit (1) drilling a middle portion of a hole, to said bit (1) detachable fastened ring bit (2) said bit drilling outer circle of the hole, as well as an arrangement for pulling a casing tube (4) into said hole during drilling, wherein in the drilling situation both the pilot bit (1) and the ring bit (2) are fitted to be rotated and the casing tube (4) fitted to be unrotatable, and for removing drilling waste from drilled surface locating at front side of said bits (1);(2), the drilling device comprises a flushing system, by means of which flushing medium is lead via the pilot bit (1) to the drilling surface and returned therefrom into a flow space (7) locating inside the casing tube (4). The flushing medium flow has been by means of a channel system (8, 6) turned inside the pilot bit (1) to a flow which is flowing in side direction, arranged to run a portion (a) inside the pilot bit (1) in the said side direction before the flow will run in the groove (5, 6) on the surface of the pilot bit (1), which groove is open towards the drilled surface.

IPC 8 full level
E21B 10/38 (2006.01); **E21B 7/20** (2006.01); **E21B 10/26** (2006.01); **E21B 10/28** (2006.01); **E21B 10/42** (2006.01); **E21B 10/60** (2006.01); **E21B 10/64** (2006.01); **E21B 21/00** (2006.01)

CPC (source: EP US)
E21B 7/208 (2013.01 - EP); **E21B 10/28** (2013.01 - EP US); **E21B 10/42** (2013.01 - EP US); **E21B 10/60** (2013.01 - EP); **E21B 10/64** (2013.01 - EP)

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

DOCDB simple family (publication)
WO 2015059341 A1 20150430; EP 3060742 A1 20160831; EP 3060742 A4 20170614; EP 3060742 B1 20190130

DOCDB simple family (application)
FI 2013000041 W 20131022; EP 13895833 A 20131022