

Title (en)

DRILL HEAD FOR EXPANDING A PILOT BORE IN ORDER TO CREATE A BOREHOLE

Title (de)

BOHRKOPF ZUM AUFWEITEN EINER PILOTBOHRUNG ZUM ERSTELLEN EINES BOHRLOCHS

Title (fr)

TÊTE DE FORAGE PERMETTANT D'ÉLARGIR UN FORAGE PILOTE POUR PRODUIRE UN TROU FORÉ

Publication

EP 3039218 A2 20160706 (DE)

Application

EP 14750442 A 20140808

Priority

- DE 102013013477 A 20130815
- EP 2014002179 W 20140808

Abstract (en)

[origin: WO2015022065A2] The invention relates to a drill head for expanding a pilot bore in order to create a borehole having a borehole wall by removing rock surrounding the pilot bore in the region of a working face extending substantially at a right angle to the pilot bore, said drill head comprising a main body, on which a connecting element for a pilot drill string is provided, at least one tool retainer for at least one drilling tool being provided on the main body, characterised in that at least two tool retainers are provided, in that at least one tool retainer is radially spaced from the main body further than the at least one other tool retainer, such that at least one outer and one inner drilling tool are present, which can be brought into engagement with the working face, and in that the at least one inner drilling tool and the at least one outer drilling tool are each arranged in an offset manner at an angle to the working face.

IPC 8 full level

E21B 10/28 (2006.01)

CPC (source: EP RU US)

E21B 7/28 (2013.01 - US); **E21B 10/28** (2013.01 - EP RU US); **E21B 7/046** (2013.01 - US); **E21B 10/60** (2013.01 - US); **E21B 17/1078** (2013.01 - US)

Cited by

CN110821409A

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 2015022065 A2 20150219; **WO 2015022065 A3 20151022**; AU 2014308209 B2 20170629; CA 2921478 A1 20150219; CA 2921478 C 20180612; DE 102013013477 A1 20150312; EP 3039218 A2 20160706; EP 3039218 B1 20180801; RU 2016109021 A 20170918; RU 2652197 C2 20180425; US 10364611 B2 20190730; US 2016305189 A1 20161020

DOCDB simple family (application)

EP 2014002179 W 20140808; AU 2014308209 A 20140808; CA 2921478 A 20140808; DE 102013013477 A 20130815; EP 14750442 A 20140808; RU 2016109021 A 20140808; US 201414911956 A 20140808