

Title (en)

DRILL BIT WITH AN EXCHANGEABLE CUTTING PORTION

Title (de)

BOHRKRONE MIT EINEM AUSTAUSCHBAREN SCHNEIDABSCHNITT

Title (fr)

COURONNE DE FORAGE POURVUE D'UN SEGMENT DE COUPE INTERCHANGEABLE

Publication

EP 2934799 A1 20151028 (DE)

Application

EP 13821105 A 20131220

Priority

- EP 2012076774 W 20121221
- EP 13166990 A 20130508
- EP 2013077690 W 20131220
- EP 13821105 A 20131220

Abstract (en)

[origin: EP2745965A1] The bit (1) has a cutting portion provided with multiple cutting segments (6) and a plug-in connecting element i.e. socket, where the bit is rotatable about a drilling axis (9). A drill shank portion (3) is provided with another plug-in connecting element i.e. plug, that forms a plug-in connection with the former connecting element. The connecting elements are connected by a pin connection that is designed as a releasable or non-releasable connection and comprises a receiving bore and a pin element. A recess is formed in the connecting elements and filled with corrosion inhibitor. An independent claim is also included for a set for assembling a drill bit.

IPC 8 full level

B23B 31/113 (2006.01); **B23B 51/04** (2006.01); **E21B 17/046** (2006.01)

CPC (source: CN EP RU US)

B23B 31/113 (2013.01 - CN EP US); **B23B 51/04** (2013.01 - CN EP RU US); **B28D 1/00** (2013.01 - RU); **B28D 1/041** (2013.01 - EP US); **E21B 10/46** (2013.01 - RU); **E21B 10/62** (2013.01 - EP US); **E21B 17/046** (2013.01 - CN EP RU US); **B23B 51/044** (2013.01 - US); **B23B 51/0466** (2013.01 - US); **B23B 2240/04** (2013.01 - US); **B23B 2251/02** (2022.01 - US); **B23B 2251/46** (2013.01 - CN); **Y10T 408/895** (2015.01 - EP US)

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 2745965 A1 20140625; BR 112015013811 A2 20170711; BR 112015013811 B1 20220118; CN 104955598 A 20150930; CN 104955598 B 20181221; EP 2934799 A1 20151028; JP 2016502937 A 20160201; JP 6175513 B2 20170802; KR 101726529 B1 20170412; KR 20150095913 A 20150821; RU 2015129594 A 20170125; RU 2631566 C2 20170925; US 10201858 B2 20190212; US 2015328694 A1 20151119; WO 2014096360 A1 20140626; WO 2014096360 A8 20150625

DOCDB simple family (application)

EP 13166990 A 20130508; BR 112015013811 A 20131220; CN 201380071785 A 20131220; EP 13821105 A 20131220; EP 2013077690 W 20131220; JP 2015548632 A 20131220; KR 20157019254 A 20131220; RU 2015129594 A 20131220; US 201314654459 A 20131220