

Title (en)

Percussive drill bit with multiple sets of front cutting inserts

Title (de)

Schlagbohrer mit mehreren Sätzen von Schneideinsätzen

Title (fr)

Trépan à percussion avec de multiples ensembles d'inserts de coupe avant

Publication

EP 2921639 A1 20150923 (EN)

Application

EP 14160500 A 20140318

Priority

EP 14160500 A 20140318

Abstract (en)

A percussive rock drill bit (100) comprising: a head (101) provided at one end of an elongate shank (102), the head (101) having a forward facing front face (105) defined by a perimeter edge (106); a plurality of front cutting inserts (104) distributed at the front face (105) at different radial positions between a central axis (108) extending through the drill bit and a perimeter edge (106) of the front face (105); front cutting inserts are grouped into a plurality of sets (206 to 208) with each set (206 to 208) positioned at a different radial distance from the axis (108) and each insert (104) of each respective set (206 to 208) is positioned at substantially the same radial distance; wherein the sets (206 to 208) each comprise the same number of inserts (104).

IPC 8 full level

E21B 10/36 (2006.01); **E21B 10/40** (2006.01); **E21B 10/46** (2006.01)

CPC (source: CN EP KR RU US)

E21B 10/36 (2013.01 - CN EP KR RU US); **E21B 10/40** (2013.01 - CN EP KR US); **E21B 10/46** (2013.01 - CN EP KR US)

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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 2921639 A1 20150923; AU 2015233739 A1 20160901; AU 2015233739 B2 20180802; AU 2015233739 C1 20181122; CA 2939473 A1 20150924; CN 106103879 A 20161109; CN 106103879 B 20190726; KR 20160133445 A 20161122; MX 2016011966 A 20161215; RU 2016140628 A 20180418; RU 2016140628 A3 20180702; RU 2671386 C2 20181030; US 2017081920 A1 20170323; WO 2015139989 A2 20150924; WO 2015139989 A3 20160121

DOCDB simple family (application)

EP 14160500 A 20140318; AU 2015233739 A 20150309; CA 2939473 A 20150309; CN 201580011437 A 20150309; EP 2015054846 W 20150309; KR 20167025105 A 20150309; MX 2016011966 A 20150309; RU 2016140628 A 20150309; US 201515126335 A 20150309