

Title (en)  
Percussive rock drill bit

Title (de)  
Gesteinsschlagbohrerspitze

Title (fr)  
Taillant de fleuret à percussion

Publication  
**EP 2799659 A1 20141105 (EN)**

Application  
**EP 13166428 A 20130503**

Priority  
EP 13166428 A 20130503

Abstract (en)  
A percussive rock drill bit comprising a head provided at one end of a rearwardly projecting skirt. The head comprises an outer collar that defines, in part, a rearwardly projecting recess formed in the forwardmost region of the head. Peripheral gauge buttons are provided at the collar to surround side and front facing buttons formed at the head recess. The drill bit is effective to provide stabilised cutting to minimise lateral deflection.

IPC 8 full level  
**E21B 10/36** (2006.01)

CPC (source: EP US)  
**E21B 10/36** (2013.01 - EP US); **E21B 10/40** (2013.01 - US)

Citation (applicant)  
• US 3388756 A 19680618 - VAREL DANIEL W, et al  
• US 3357507 A 19671212 - STEWART VERNON G  
• US 2008087473 A1 20080417 - HALL DAVID R [US], et al  
• WO 2009067073 A1 20090528 - SANDVIK INTELLECTUAL PROPERTY [SE], et al  
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Citation (search report)  
• [X] US 3955635 A 19760511 - SKIDMORE SAM C  
• [XD] US 2008087473 A1 20080417 - HALL DAVID R [US], et al  
• [X] US 2008078584 A1 20080403 - LYON LELAND H [US]  
• [A] WO 2012174607 A1 20121227 - DRILLING TOOLS AUSTRALIA PTY LTD [AU], et al

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US10047564B2; US10385620B2

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 2799659 A1 20141105**; AU 2014261700 A1 20151112; BR 112015027538 A2 20170912; CA 2910607 A1 20141106;  
CN 105264163 A 20160120; KR 20160003230 A 20160108; MX 2015015104 A 20160211; PE 20151916 A1 20151226;  
RU 2015151569 A 20170608; US 2016090791 A1 20160331; WO 2014177364 A1 20141106

DOCDB simple family (application)  
**EP 13166428 A 20130503**; AU 2014261700 A 20140411; BR 112015027538 A 20140411; CA 2910607 A 20140411;  
CN 201480024992 A 20140411; EP 2014057389 W 20140411; KR 20157034202 A 20140411; MX 2015015104 A 20140411;  
PE 2015002325 A 20140411; RU 2015151569 A 20140411; US 201414888506 A 20140411