

Title (en)
BIT RETAINING SYSTEM

Title (de)
BOHREINSATZHALTESYSTEM

Title (fr)
SYSTÈME DE RETENUE DE TRÉPAN

Publication
EP 3146140 A4 20170517 (EN)

Application
EP 15796522 A 20150525

Priority
• AU 2014901955 A 20140523
• AU 2015000309 W 20150525

Abstract (en)
[origin: WO2015176121A1] A retaining system (100) for a DTH hammer drill bit (25) having an outer surface with a plurality of stops (31) at an up-hole end (29) of the drill bit (25) the stops projecting radially outward from the outer surface and spaced by respective gaps (35). The retaining system has a ring (102) which is configured to pass over the stops (31) when in a first rotational position relative to the drill bit (25). However when the ring (102) is in a second rotational position relative to the drill bit (25) it prohibits passage of the stops (31) through the ring (102).

IPC 8 full level
E21B 17/04 (2006.01); **E21B 4/06** (2006.01); **E21B 10/36** (2006.01); **E21B 12/00** (2006.01)

CPC (source: EP US)
E21B 10/36 (2013.01 - EP US); **E21B 17/046** (2013.01 - EP US); **E21B 17/076** (2013.01 - EP US); **E21B 19/18** (2013.01 - US)

Citation (search report)
• [X] US 2012186883 A1 20120726 - PURCELL JOSEPH [IE]
• [X] WO 9858154 A1 19981223 - SDS DIGGER TOOLS PTY LTD [AU], et al
• [X] US 2013008722 A1 20130110 - GILBERT ANDREW S [AU], et al
• [X] WO 2013121304 A2 20130822 - SANDVIK INTELLECTUAL PROPERTY [SE]
• See references of WO 2015176121A1

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 2015176121 A1 20151126; AU 2015263844 A1 20170119; EP 3146140 A1 20170329; EP 3146140 A4 20170517;
US 2017241213 A1 20170824

DOCDB simple family (application)
AU 2015000309 W 20150525; AU 2015263844 A 20150525; EP 15796522 A 20150525; US 201515313370 A 20150525