

Title (en)
DRILLING DEVICE AND METHOD

Title (de)
BOHRVORRICHTUNG UND -VERFAHREN

Title (fr)
DISPOSITIF ET PROCÉDÉ DE FORAGE

Publication
EP 2861815 A4 20160720 (EN)

Application
EP 13803777 A 20130614

Priority
• US 201261659677 P 20120614
• US 2013045943 W 20130614

Abstract (en)
[origin: US2013333952A1] A plurality of cutting faces is attached sequentially at a distal end of a drill string. The forward most cutting face that is distal to the top of the hole is exposed and used for drilling until worn to a point of inefficiency. The forward most or distal cutting face is then detached, exposing the next cutting face in the sequence. Detachment of the forward most cutting face is performed by remote actuation at the top of the drill string and/or outside the hole. A new cutting face is provided without the necessity of removing the drill string. The detachment process is repeated as long as drilling is continued and cutting faces remain.

IPC 8 full level
E21B 10/62 (2006.01); **E21B 7/00** (2006.01)

CPC (source: EP US)
E21B 7/007 (2013.01 - EP US); **E21B 10/633** (2013.01 - EP US)

Citation (search report)
• [X] US 2010096187 A1 20100422 - STORM JR BRUCE H [US], et al
• [A] US 4030557 A 19770621 - ALVIS ROBERT L, et al
• [A] US 4278127 A 19810714 - RANKIN E EDWARD
• See references of WO 2013188798A1

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

DOCDB simple family (publication)
US 2013333952 A1 20131219; CA 2878878 A1 20131219; EP 2861815 A1 20150422; EP 2861815 A4 20160720; WO 2013188798 A1 20131219

DOCDB simple family (application)
US 201313918414 A 20130614; CA 2878878 A 20130614; EP 13803777 A 20130614; US 2013045943 W 20130614