

Title (en)
RELEASE ASSEMBLY AND METHOD OF FORMING A DRILLING TOOL

Title (de)
FREISETZUNGSANORDNUNG UND VERFAHREN ZUR HERSTELLUNG EINES BOHRWERKZEUGS

Title (fr)
ENSEMBLE DE LIBÉRATION ET PROCÉDÉ DE FORMATION D'UN OUTIL DE FORAGE

Publication
EP 2868861 B1 20181017 (EN)

Application
EP 13190766 A 20131030

Priority
EP 13190766 A 20131030

Abstract (en)
[origin: EP2868861A1] The invention relates to a release assembly and a method of forming a drilling tool for rock or overburden drilling. The release assembly (18) is arranged axially between two drilling tool components (14a, 14b). The release assembly comprises a release mechanism allowing an initial axial length (L1) to shorten (Ls) when a joint (15) of the drilling tool components (14) provided with connecting threads (20, 21) is turned in an opening direction (Ro). Then the release assembly has a decreased second axial length (L2) and friction forces in the joint decrease.

IPC 8 full level
E21B 17/046 (2006.01); **E21B 17/06** (2006.01)

CPC (source: CN EP KR US)
E02F 5/30 (2013.01 - KR); **E21B 10/36** (2013.01 - KR); **E21B 17/03** (2013.01 - US); **E21B 17/042** (2013.01 - US);
E21B 17/06 (2013.01 - CN EP US)

Cited by
CN107299827A; WO2017182586A1

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)
EP 2868861 A1 20150506; EP 2868861 B1 20181017; AU 2014253519 A1 20150514; AU 2014253519 B2 20160519; CA 2864379 A1 20150430; CL 2014002931 A1 20150612; CN 104594820 A 20150506; ES 2706378 T3 20190328; JP 2015086693 A 20150507; JP 5932942 B2 20160608; KR 101659658 B1 20160926; KR 20150050417 A 20150508; US 2015117940 A1 20150430

DOCDB simple family (application)
EP 13190766 A 20131030; AU 2014253519 A 20141023; CA 2864379 A 20140922; CL 2014002931 A 20141029; CN 201410599071 A 20141030; ES 13190766 T 20131030; JP 2014220155 A 20141029; KR 20140147242 A 20141028; US 201414526968 A 20141029