

Title (en)
DOWNHOLE CUTTING TOOL

Title (de)
BOHRLOCHSCHNEIDWERKZEUG

Title (fr)
OUTIL DE TAILLE DE FOND DE TROU

Publication
EP 3332084 A4 20190313 (EN)

Application
EP 16833493 A 20160715

Priority
• GB 201513927 A 20150806
• US 2016042379 W 20160715

Abstract (en)
[origin: GB2541017A] A rotary tool for milling tubing 12 in a borehole comprises at least one cutter 10 with a cutter body 10 and a cutting surface on the body. Each cutter is shaped and positioned on the tool such that at least part of the cutting surface 24 is back raked relative to the direction of rotation 14 such that an edge 26 where the cutting surface cuts furthest into the tubing is a trailing edge of the cutting surface relative to the direction of rotation, at least part of the back raked cutting surface extends from the edge with a back rake angle 34 in a range from 15 to 60 degrees, and at the said edge, the cutter has an angle 34+38 greater than 90 degrees included between the cutting surface and the surface 22 of the cutter body following the cutting surface.

IPC 8 full level
E21B 29/00 (2006.01); **E21B 10/26** (2006.01); **E21B 10/46** (2006.01); **E21B 41/00** (2006.01)

CPC (source: EP GB US)
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E21B 29/002 (2013.01 - EP GB US); **E21B 29/005** (2013.01 - EP GB US); **E21B 10/322** (2013.01 - US); **E21B 10/5671** (2020.05 - US)

Citation (search report)
• [XI] US 2008093076 A1 20080424 - PATIL HARSHAD [US], et al
• [X] US 2007079995 A1 20070412 - MCCLAIN ERIC E [US], et al
• See references of WO 2017023509A1

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)
GB 201513927 D0 20150923; **GB 2541017 A 20170208**; **GB 2541017 B 20180606**; CA 2994940 A1 20170209; EP 3332084 A1 20180613;
EP 3332084 A4 20190313; EP 3332084 B1 20200617; US 2018230766 A1 20180816; WO 2017023509 A1 20170209

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