

Title (en)  
CUTTING TOOL WITH EXPANDABLE CUTTER BASES AND NOSE SECTION CUTTING CAPABILITY

Title (de)  
SCHNEIDWERKZEUG MIT EXPANDIERBAREN SCHNEIDBASELEMENTEN UND FÄHIGKEIT ZUM SCHNEIDEN DER NASENPARTIE

Title (fr)  
OUTIL DE COUPE AVEC BASES DE COUPE EXTENSIBLES ET APTITUDE À LA COUPE D'UNE PARTIE DE NEZ

Publication  
**EP 3137713 A4 20180516 (EN)**

Application  
**EP 15785449 A 20150501**

Priority  
• US 201461986950 P 20140501  
• US 2015028821 W 20150501

Abstract (en)  
[origin: WO2015168575A1] A wellbore casing cutting tool having multiple expandable cutter bases. The leading or downhole ends of the cutter bases are tapered, forming a tapered nose profile, and are covered with hardened cutting material to form a cutting surface. The cutting surface on the tapered nose profile can be used to remove a cement sheath within a casing string being cut or milled.

IPC 8 full level  
**E21B 10/32** (2006.01); **E21B 7/28** (2006.01); **E21B 29/00** (2006.01); **E21B 29/06** (2006.01)

CPC (source: EP US)  
**E21B 29/005** (2013.01 - US); **E21B 29/007** (2013.01 - EP US); **E21B 37/04** (2013.01 - US)

Citation (search report)  
• [Y] WO 2014025763 A2 20140213 - DELTIDE ENERGY SERVICES LLC [US]  
• [Y] US 4809793 A 19890307 - HAILEY CHARLES D [US]  
• [A] US 5012863 A 19910507 - SPRINGER JOHANN [DE]  
• [A] US 6070677 A 20000606 - JOHNSTON JR HUGH L [US]  
• [A] US 2003155155 A1 20030821 - DEWEY CHARLES H [US], et al  
• See references of WO 2015168575A1

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)  
**WO 2015168575 A1 20151105**; AU 2015252881 A1 20161215; AU 2015252881 B2 20191107; CA 2984427 A1 20151105; CA 2984427 C 20200310; EP 3137713 A1 20170308; EP 3137713 A4 20180516; EP 3137713 B1 20201014; MX 2016014377 A 20170427; US 2017241224 A1 20170824

DOCDB simple family (application)  
**US 2015028821 W 20150501**; AU 2015252881 A 20150501; CA 2984427 A 20150501; EP 15785449 A 20150501; MX 2016014377 A 20150501; US 201515310157 A 20150501