

Title (en)
CHISEL

Title (de)
MEISSEL

Title (fr)
TRÉPAN

Publication
EP 3049620 A2 20160803 (DE)

Application
EP 14757943 A 20140901

Priority
• DE 102013110676 A 20130926
• EP 2014068499 W 20140901

Abstract (en)
[origin: CN204126648U] The utility model relates to a cutter with a cutter head and a cutter handle, wherein the cutter handle is provided with a threaded section with threads in an area opposite to the end part of the cutter head; the cutter head is provided with a cutter tip which is made of a hard material; the cutter head is provided with a support surface in an area facing to the side surface of the cutter handle. Specifically, the cutter tip is made of a super-hard material, so that the construction of load optimization of the cutter is achieved in a following mode, namely, the support surface is hog-shaped.

IPC 8 full level
E21C 35/18 (2006.01); **E21C 35/19** (2006.01)

CPC (source: CN EP US)
B28D 1/186 (2013.01 - EP US); **E01C 23/088** (2013.01 - CN); **E21C 35/18** (2013.01 - CN EP US); **E21C 35/19** (2013.01 - CN EP US)

Citation (search report)
See references of WO 2015043884A2

Citation (examination)
US 2008142116 A1 20080619 - GREEN KEVIN J [US]

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)
DE 102013110676 A1 20150326; CN 104514559 A 20150415; CN 104514559 B 20171027; CN 204126648 U 20150128; EP 3049620 A2 20160803; TW 201529952 A 20150801; US 10227870 B2 20190312; US 2016230551 A1 20160811; US D819098 S 20180529; WO 2015043884 A2 20150402; WO 2015043884 A3 20151022

DOCDB simple family (application)
DE 102013110676 A 20130926; CN 201410498637 A 20140925; CN 201420556337 U 20140925; EP 14757943 A 20140901; EP 2014068499 W 20140901; TW 103133328 A 20140925; US 201415023718 A 20140901; US 201629587361 F 20161213