

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)  
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Designated extension state (EPC)  
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**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