

Title (en)  
REVERSIBLE TIP CUTTER FOR ROTARY MILLING

Title (de)  
WENDESCHNEIDEPLATTE ZUM DREHSCHÄLEN

Title (fr)  
PLAQUETTE AMOVIBLE POUR ECROUTAGE

Publication  
**EP 1861217 A1 20071205 (DE)**

Application  
**EP 06704746 A 20060313**

Priority  
• AT 2006000104 W 20060313  
• AT 5132005 A 20050324

Abstract (en)  
[origin: WO2006099640A1] The invention relates to a tip cutter for rotary milling comprising a polygonal form when viewed from above. Said cutter comprises at least one primary cutting edge and a secondary cutting edge that is situated at an obtuse angle to the latter. The aim of the invention is to achieve an increased machining performance without causing chatter marks on the round bar that is being machined and a quiet milling operation. To achieve this, the invention discloses tip cutters (1) with a polygonal form when viewed from above, comprising at least one primary cutting edge (2) and a secondary cutting edge (3) that is situated at an obtuse angle to the latter. The connecting region (4) between the primary cutting edge (2) and the secondary cutting edge (3) is rounded, with the proviso that the local radius of curvature (R4) of the rounded section is greater than 15 mm, but less than 35 mm.

IPC 8 full level  
**B23B 5/12** (2006.01); **B23B 27/14** (2006.01)

CPC (source: EP US)  
**B23B 5/12** (2013.01 - EP US); **B23B 27/141** (2013.01 - EP US); **B23B 2200/087** (2013.01 - EP US); **B23B 2200/123** (2013.01 - EP US); **B23B 2200/201** (2013.01 - EP US); **B23B 2200/202** (2013.01 - EP US); **B23B 2220/40** (2013.01 - EP US); **Y10T 407/23** (2015.01 - EP US); **Y10T 407/235** (2015.01 - EP US); **Y10T 407/245** (2015.01 - EP US)

Citation (search report)  
See references of WO 2006099640A1

Cited by  
CN104708034A; EP4331748A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2006099640 A1 20060928**; AT 501655 A1 20061015; AT 501655 B1 20071015; EP 1861217 A1 20071205; US 2008159820 A1 20080703; US 7972092 B2 20110705

DOCDB simple family (application)  
**AT 2006000104 W 20060313**; AT 5132005 A 20050324; EP 06704746 A 20060313; US 90847706 A 20060313