

Title (en)

DUAL-GRINDING METHOD FOR BAR BLADES AND A GRINDING DISC FOR CARRYING OUT SAID METHOD

Title (de)

DUAL-SCHLEIFVERFAHREN FÜR STABMESSER UND SCHLEIFSCHLEIBE ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)

PROCEDE DE MEULAGE DUEL DE LAMES A BARRE ET MEULE CORRESPONDANTE

Publication

EP 1353778 B1 20050831 (DE)

Application

EP 02716076 A 20020122

Priority

- DE 10103755 A 20010127
- EP 0200600 W 20020122

Abstract (en)

[origin: US2003054731A1] A grinding wheel and a method for grinding bar blade for the production of spiral gear teeth are described. For economical grinding of such bar blades the grinding wheel has a conical grinding surface (Pp) widening from a small diameter (d1) to a large diameter (d2), a cylindrical grinding surface (Ps) adjoining the conical grinding surface (Pp), and a toroidal grinding surface (G) adjoining the cylindrical grinding surface (Ps). The grinding wheel embodied in this manner enables profile grinding (rough grinding) and subsequent generating grinding (finish grinding) of the surfaces of the bar blade without the necessity of remounting the blade. For practical purposes the grinding wheel rotates about a stationary axis (S), and the bar blade to be ground is guided along the grinding wheel [(12)] at appropriately set angles.

IPC 1-7

B24D 7/18; B24B 3/34

IPC 8 full level

B24D 5/00 (2006.01); **B24B 3/34** (2006.01); **B24D 5/14** (2006.01); **B24D 7/18** (2006.01)

CPC (source: EP US)

B24B 3/34 (2013.01 - EP US); **B24D 7/18** (2013.01 - EP US); **Y10T 407/1952** (2015.01 - EP US); **Y10T 407/196** (2015.01 - EP US); **Y10T 407/1962** (2015.01 - EP US); **Y10T 407/1964** (2015.01 - EP US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

US 2003054731 A1 20030320; **US 6709318 B2 20040323**; AT E303231 T1 20050915; DE 10103755 C1 20020516; DE 50204078 D1 20051006; EP 1353778 A1 20031022; EP 1353778 B1 20050831; ES 2247310 T3 20060301; JP 2004516952 A 20040610; JP 3981010 B2 20070926; MX PA02009468 A 20040514; WO 02058888 A1 20020801

DOCDB simple family (application)

US 24003602 A 20020926; AT 02716076 T 20020122; DE 10103755 A 20010127; DE 50204078 T 20020122; EP 0200600 W 20020122; EP 02716076 A 20020122; ES 02716076 T 20020122; JP 2002559211 A 20020122; MX PA02009468 A 20020122