

Title (en)  
PROCEDURE FOR MANUFACTURING A TOOTHED WHEEL

Title (de)  
VERFAHREN ZUM HERSTELLEN EINES ZAHNRADES

Title (fr)  
PROCÉDÉ DE FABRICATION D'UNE ROUE DENTÉE

Publication  
**EP 2012951 B1 20171018 (DE)**

Application  
**EP 07718414 A 20070427**

Priority  
• AT 2007000198 W 20070427  
• AT 7632006 A 20060504

Abstract (en)  
[origin: WO2007128013A1] A procedure for the manufacture of a toothed wheel made of a pressed and sintered powder metal blank (1) with allowance in the area of the toothing, whereby plastic deformation compresses the powder metal blank (1) by unwinding the compression tool (7) produced by the opposed toothing penetrating the toothing of the powder metal blank (1). To create advantageous compression conditions, it is suggested that the profile rollers (8) produced by the axial unwinding of the compression tool (7) in the direction of the power metal blank (1) are compressed simultaneously over the entire circumference.

IPC 8 full level  
**B21K 1/30** (2006.01); **B22F 5/08** (2006.01)

CPC (source: EP US)  
**B21H 5/022** (2013.01 - EP US); **B21J 5/12** (2013.01 - EP US); **B21K 1/30** (2013.01 - EP US); **B22F 5/08** (2013.01 - EP US); **Y10T 29/49471** (2015.01 - EP US)

Citation (examination)  
AT 412955 B 20050926 - MIBA SINTER AUSTRIA GMBH [AT]

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 MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2007128013 A1 20071115**; AT 503037 A4 20070715; AT 503037 B1 20070715; CA 2651016 A1 20071115; CN 101489701 A 20090722; CN 101489701 B 20101208; EP 2012951 A1 20090114; EP 2012951 B1 20171018; JP 2009536268 A 20091008; US 2009090154 A1 20090409; US 8069696 B2 20111206

DOCDB simple family (application)  
**AT 2007000198 W 20070427**; AT 7632006 A 20060504; CA 2651016 A 20070427; CN 200780025134 A 20070427; EP 07718414 A 20070427; JP 2009512362 A 20070427; US 22696607 A 20070427