

Title (en)

PROCESS FOR PRODUCING A GEARING OF SINTERMATERIAL

Title (de)

VERFAHREN UM EINE VERZÄHNUNG AUS SINTERMATERIAL HERZUSTELLEN

Title (fr)

PROCÉDÉ DE FABRIQUER UN ENDENTEMENT DE MATÉRIEU FRITTÉ

Publication

EP 1890831 B1 20200729 (DE)

Application

EP 06754213 A 20060608

Priority

- EP 2006005467 W 20060608
- DE 102005027142 A 20050610

Abstract (en)

[origin: CA2611597A1] The invention relates to a blank for producing a gear made of sintered material. Said blank is provided with an undersize. The undersize is determined using an iterative calculation and is filled by displacing the adjacent oversized material when the surface is compressed.

IPC 8 full level

B21H 5/02 (2006.01); **B22F 5/08** (2006.01); **B22F 7/06** (2006.01); **F16H 55/08** (2006.01)

CPC (source: EP US)

B21H 5/022 (2013.01 - EP US); **B22F 5/08** (2013.01 - EP US); **B22F 7/06** (2013.01 - EP US); **B22F 2003/166** (2013.01 - EP US); **B22F 2003/241** (2013.01 - EP US); **B22F 2003/247** (2013.01 - EP US); **B22F 2003/248** (2013.01 - EP US); **B22F 2998/00** (2013.01 - EP US); **B22F 2998/10** (2013.01 - EP US); **B22F 2999/00** (2013.01 - EP US); **Y10T 29/49462** (2015.01 - EP US); **Y10T 29/49467** (2015.01 - EP US); **Y10T 29/49478** (2015.01 - EP US); **Y10T 29/4948** (2015.01 - EP US); **Y10T 409/100159** (2015.01 - EP US); **Y10T 409/101431** (2015.01 - EP US)

Citation (examination)

- GB 2250227 A 19920603 - FORMFLO LTD [GB]
- WO 0243897 A1 20020606 - MIBA SINTERMETALL AG [AT], et al
- SIGL L S ET AL: "Evolution of gear quality in helical PM gears during processing", POWDER METALLURGY WORLD CONGRESS & EXHIBITION (PM2004), 17-21 OCTOBER 2004, VIENNA, AUSTRIA,, 17 October 2004 (2004-10-17), pages 7pp, XP009176190

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)

DE 102005027142 A1 20061214; CA 2611597 A1 20061214; CN 101193719 A 20080604; CN 101193719 B 20160203; EP 1890831 A2 20080227; EP 1890831 B1 20200729; US 2008134507 A1 20080612; US 8307551 B2 20121113; WO 2006131348 A2 20061214; WO 2006131348 A3 20070315

DOCDB simple family (application)

DE 102005027142 A 20050610; CA 2611597 A 20060608; CN 200680020674 A 20060608; EP 06754213 A 20060608; EP 2006005467 W 20060608; US 95356607 A 20071210