

Title (en)

METHOD AND DEVICE FOR PRODUCING A TOOTHED WHEEL

Title (de)

VERFAHREN UND VORRICHTUNG ZUM HERSTELLEN EINES ZAHNRADES

Title (fr)

PROCEDE ET DISPOSITIF POUR LA PRODUCTION D'UNE ROUE DENTEE

Publication

**EP 1027179 B1 20021218 (DE)**

Application

**EP 98949823 A 19981027**

Priority

- AT 9800260 W 19981027
- AT 183697 A 19971030

Abstract (en)

[origin: WO9922890A1] The invention relates to a method and a device for producing a toothed wheel from a powder metal blank (1) which has been sintered and pressed with an overmeasure in the toothing area. Said blank is compacted in the area of the overmeasure using the pressure of a counter-tooth (8) of at least one rotating pressing tool (3) around the overmeasure so that a plastic deformation takes place, said counter-tooth engaging with the toothing (9) of the powder metal blank (1). In order to facilitate the construction of the toothed wheel, the counter-tooth (8) of the annular pressing tool (3) which surrounds the powder metal blank (1), said counter-tooth being configured as inner toothing, is pressed into the toothing (9) of the powder metal blank (1) using a pressure roller which rolls out on the outer periphery (10) of the pressing tool (3).

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IPC 8 full level

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CPC (source: EP US)

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C-Set (source: EP US)

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**WO 9922890 A1 19990514**; AT 406836 B 20000925; AT A183697 A 20000215; AT E229856 T1 20030115; AU 9615898 A 19990524; BR 9813890 A 20000926; CA 2307562 A1 19990514; CA 2307562 C 20080122; CZ 20001591 A3 20010711; CZ 299187 B6 20080514; DE 59806760 D1 20030130; EP 1027179 A1 20000816; EP 1027179 B1 20021218; JP 2001521824 A 20011113; JP 3831896 B2 20061011; US 6357272 B1 20020319

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