

Title (en)

Method and apparatus for producing external toothing on a rotarily mounted workpiece

Title (de)

Verfahren und Vorrichtung zur Herstellung einer Aussenverzahnung an einem rotatorisch gelagerten Werkstück

Title (fr)

Méthode et dispositif pour faire une denture externe sur une pièce supportée de manière à pouvoir tourner

Publication

**EP 1125655 A3 20020731 (DE)**

Application

**EP 01102738 A 20010207**

Priority

DE 10005438 A 20000208

Abstract (en)

[origin: DE10005438A1] The method involves forming an outer toothing with an axial rear position. One or more profiled non-cutting shaping tools are guided in position towards the work piece and to rotate with respect to the work piece. The tool is guided to form a roof-like insertion angle ( $\alpha$ ), where the gear is rotated about an axis (X) during the shaping and the tool engaging the work piece is guided in at least one radial or axial feed movement. An independent claim is included for a device for implementing the method.

IPC 1-7

**B21D 53/28**; **B21H 5/02**

IPC 8 full level

**B23F 5/12** (2006.01); **B21H 5/02** (2006.01); **B23F 5/14** (2006.01); **B23F 5/16** (2006.01)

CPC (source: EP US)

**B21H 5/02** (2013.01 - EP US); **B21H 5/027** (2013.01 - EP US); **Y10T 29/49471** (2015.01 - EP US)

Citation (search report)

- [A] GB 906651 A 19620926 - ZAHNRADFABRIK FRIEDRICHSHAFEN
- [XA] DE 1293122 B 19690424 - ERDELYI FERENC
- [A] US 4712408 A 19871215 - KILLOP JAMES T [US]
- [DA] DE 19809039 A1 19990909 - SINTERSTAHL GMBH [DE]
- [DA] DE 4335505 C1 19940825 - WF MASCHINENBAU BLECHFORMTECH [DE]
- [A] EP 0925857 A2 19990630 - METALART CORP [JP]
- [A] US 2206443 A 19400702 - BARTER HARRY L, et al

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DOCDB simple family (publication)

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DOCDB simple family (application)

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