

Title (en)
DEVICE AND METHOD FOR PRODUCING TOOTH-LIKE PROFILED SECTIONS ON WORKPIECES

Title (de)
VORRICHTUNG UND VERFAHREN ZUR ERZEUGUNG VON VERZÄHNUNGSARTIGEN PROFILIERUNGEN VON WERKSTÜCKEN

Title (fr)
DISPOSITIF ET PROCEDE DE PRODUCTION DE PROFILS DE TYPE DENTE SUR DES PIECES

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Application
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Abstract (en)
[origin: WO2005075125A1] The invention relates to a device for producing cylindrical workpieces (1) having defined profiled sections. The device comprises a workpiece holder (2) that is axially displaceable and intermittently rotates about a longitudinal axis (Z), and shaping tools (9; 12) that periodically act upon the workpiece. The inventive device is characterized by at least one drive (11) for the intermittent rotation of the workpiece holder (2), which is mechanically separate from the drive (8) for the shaping tools (9; 12). The drive (11) is linked with an electronic control which controls the intermittent rotational movement depending on the drive (8) of the shaping tools (9; 12). The invention allows to adjust any intermittent movement relative to the position and angle of the workpiece (1), thereby contributing to a precise and especially rapid processing of the workpiece (1).

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CPC (source: EP US)
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Citation (opposition)
Opponent : Leifeld Metal Spinning AG
• US 4307592 A 19811229 - KRAPPENBAUER HANS
• US 3675454 A 19720711 - PRATT LESLIE RAYMOND
• US 5339669 A 19940823 - CRETIN MICHEL [FR], et al
• WO 2005075127 A1 20050818 - GROB ERNST FA [CH], et al
• DE 4315503 A1 19940120 - ERNST GROB AG MAENNEDORF [CH]
• EP 0558815 A1 19930908 - GROB ERNST FA [CH]
• CH 658006 A5 19861015 - GROB ERNST FA
• EP 0538515 A1 19930428 - INDEX WERKE KG HAHN & TESSKY [DE]
• EP 0688617 A1 19951227 - GROB ERNST FA [CH]
• DE 2549230 A1 19760902 - GROB ERNST FA [CH]
• DE 2921746 A1 19791206 - HEAT EXCHANGERS AFRICA LTD

Cited by
CN107262998A

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WO 2005075125 A1 20050818; CA 2553544 A1 20050818; CA 2553544 C 20100223; CN 100429018 C 20081029; CN 1913988 A 20070214; EP 1713600 A1 20061025; EP 1713600 B1 20161012; ES 2610462 T3 20170427; JP 2007519528 A 20070719; MX PA06008340 A 20070417; US 2007163320 A1 20070719; US 7562549 B2 20090721

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