

Title (en)
PROCESS FOR PRODUCING ANNULAR WORK PIECES FROM METAL WITH A PROFILED CROSS-SECTION AND A ROLLING FACILITY FOR CARRYING OUT THE METHOD

Title (de)
VERFAHREN ZUM HERSTELLEN VON RINGFÖRMIGEN WERKSTÜCKEN AUS METALL MIT PROFILIERTEM QUERSCHNITT UND WALZWERK ZU DESSEN DURCHFÜHRUNG

Title (fr)
PROCEDE DE FABRICATION DE PIECES ANNULAIRES EN METAL DE SECTION PROFILEE ET LAMINOIR ASSOCIE

Publication
EP 0828572 A1 19980318 (DE)

Application
EP 96917434 A 19960525

Priority

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- DE 19525868 A 19950715
- EP 9602261 W 19960525

Abstract (en)
[origin: US5946959A] PCT No. PCT/EP96/02261 Sec. 371 Date Dec. 17, 1997 Sec. 102(e) Date Dec. 17, 1997 PCT Filed May 25, 1996 PCT Pub. No. WO96/38241 PCT Pub. Date Dec. 5, 1996 External teeth are formed on an annular metallic workpiece centered on a workpiece axis by fitting the annular metallic workpiece to a die with internally directed teeth to form axially open and radially closed spaces between the workpiece and the die at the teeth and axially pressing a pair of closing members oppositely against the die and workpiece to axially close the spaces. Then the fitted-together die, closing members, and workpiece are engaged between a pair of tools that are pressed together along a pressing axis generally parallel to the workpiece axis. The die, members and workpiece are synchronously rotated about the workpiece axis while the tools are rotated about respective tool axes each forming a small acute angle with the workpiece axis so as to locally compress the workpiece axially between the tools to deform the workpiece into the spaces. A bearing supports the die and workpiece while the workpiece is compressed between the tools.

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IPC 8 full level
B21H 1/06 (2006.01); **B21J 9/02** (2006.01); **B21K 1/30** (2006.01); **B21H 5/02** (2006.01)

CPC (source: EP US)
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US 5946959 A 19990907; EP 0828572 A1 19980318; EP 0828572 B1 19981230; JP 3382948 B2 20030304; JP H11505769 A 19990525; WO 9638241 A1 19961205

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