

Title (en)

METHOD FOR MASSIVE FORMING AXISYMMETRIC METAL COMPONENTS

Title (de)

VERFAHREN ZUR MASSIVUMFORMUNG VON AXIAL-SYMMETRISCHEN METALLISCHEN BAUTEILEN

Title (fr)

PROCEDE POUR LE FORMAGE DE PIECES METALLIQUES MASSIVES AXISYMETRIQUES

Publication

**EP 1171252 A1 20020116 (DE)**

Application

**EP 00914010 A 20000412**

Priority

- EP 00914010 A 20000412
- CH 0000212 W 20000412
- EP 99810319 A 19990416

Abstract (en)

[origin: EP1046440A1] The lateral extrusion pressing of a partially-heated workpiece (100) gives an axially symmetrical distortion with increased shaping grades. The workpiece (100) is inserted into a lower die (20), to be pressed by an upper die (10) with a press force (F) The local heating is from the lateral extrusion pressing, with the heat effect (30) matched to the shape change behavior of the workpiece (100).

IPC 1-7

**B21J 9/08**; **B21J 5/08**

IPC 8 full level

**B21J 5/08** (2006.01); **B21J 9/08** (2006.01); **B21K 1/06** (2006.01); **C21D 7/13** (2006.01)

CPC (source: EP)

**B21J 5/08** (2013.01); **B21J 9/08** (2013.01); **B21K 1/06** (2013.01); **C21D 7/13** (2013.01); **C21D 2221/00** (2013.01)

Citation (search report)

See references of WO 0062956A1

Cited by

DE102009009982A1; CN102554584A

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 1046440 A1 20001025**; AT E253422 T1 20031115; AU 3548700 A 20001102; DE 50004335 D1 20031211; EP 1171252 A1 20020116; EP 1171252 B1 20031105; WO 0062956 A1 20001026

DOCDB simple family (application)

**EP 99810319 A 19990416**; AT 00914010 T 20000412; AU 3548700 A 20000412; CH 0000212 W 20000412; DE 50004335 T 20000412; EP 00914010 A 20000412