

Title (en)

Method for producing a metal workpiece and forming press for carrying out the method

Title (de)

Verfahren zum Herstellen eines Werkstückes aus metallischem Werkstoff und Umformpresse zur Durchführung des Verfahrens

Title (fr)

Procédé de fabrication d' une pièce métallique et presse de formage pour la mise en oeuvre du procédé de fabrication

Publication

**EP 1430966 A3 20050309 (DE)**

Application

**EP 03029185 A 20031218**

Priority

DE 10260980 A 20021221

Abstract (en)

[origin: EP1430966A2] Production of a workpiece (4) made of a metallic material, especially aluminum, with adjacently arranged shapings (8), especially a control arm connection with a double-walled dome for motor vehicles, using an internal high pressure metal forming process comprises loading a tubular blank in a forming tool with a medium under high pressure. The double-walled dome is shaped by moving a central profile stamp (10a) against the blank orthogonally to its main axis in the forming region and moving profile stamps (10b, 10c) on both sides of the central profile stamp against the blank at a specified angle of attack and a specified distance to produce the two dome walls. An Independent claim is also included for a forming press for carrying out the above process.

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CPC (source: EP)

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Citation (search report)

- [A] SU 489548 A1 19751030
- [A] DE 10211550 A1 20020919 - DANA CORP [US]
- [A] EP 0484789 A1 19920513 - AUDI AG [DE]
- [A] US 5765420 A 19980616 - SCHAEFER AUGUST WILHELM [DE]
- [DA] DE 4442150 A1 19960530 - BENTELER WERKE AG [DE]

Cited by

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