

Title (en)

Forming tool and method for producing moulded components made from metal plates

Title (de)

Umformwerkzeug und Verfahren zur Herstellung von Formbauteilen aus Metallplatten

Title (fr)

Outil de formage et procédé destiné à la fabrication de pièces de formage à partir de platines en métal

Publication

EP 2548670 B1 20181107 (DE)

Application

EP 12176670 A 20120717

Priority

DE 102011051943 A 20110719

Abstract (en)

[origin: EP2548670A1] The tool (1A) has a tool upper part (3) and a tool base part (2) provided with lower and upper mold bodies (4, 5). The mold bodies are arranged in the tool upper part and/or the tool base part in a bearing (22). The bearing is formed such that the mold bodies are thermally expanded during heating process. The bearing comprises a sliding block (28) guided into an elongation groove. Guide elements (18, 19) are provided at the upper and lower mold bodies and/or at a blank holder (16). A heating device (9) e.g. heating cartridge, tempers the mold bodies. The mold bodies are mono-block bodies. An independent claim is also included for a method for manufacturing a mold component from a light metal plate.

IPC 8 full level

B21D 37/16 (2006.01); **B21D 22/02** (2006.01); **B21D 22/20** (2006.01)

CPC (source: EP)

B21D 22/022 (2013.01); **B21D 22/208** (2013.01); **B21D 37/16** (2013.01)

Cited by

EP3078430A1; US9901971B2; WO2018039789A1; CN115610007A; CN104191253A; US11072011B2; EP3088092A1; EP3900853A1; US2016175910A1; CN105710226A; CN104525673A; CN107030175A; CN107745045A; FR3032136A1; US2016296991A1; CN103191968A; US2015266076A1; CN106077298A; US9833828B2; CN109689244A; CN109731975A; US9943898B2; WO2016124852A1; US10245632B2; US11548050B2; US11253898B2; US11185906B2; EP3184186B1; EP2990192B1

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