

Title (en)

Method of making motor vehicle parts

Title (de)

Verfahren zum Herstellen von Kfz-Bauteilen

Title (fr)

Méthode de fabrication des éléments de véhicule automobile

Publication

**EP 1321204 A3 20050309 (DE)**

Application

**EP 02027172 A 20021205**

Priority

DE 10162441 A 20011219

Abstract (en)

[origin: EP1321204A2] Production of vehicle components, especially gear parts, chassis parts, drive parts and engine parts, made from aluminum or aluminum alloys comprises: forming an intermediate or final mold from a starting mold in a deforming tool; and tempering to control the material flow in the solidification process by introducing and/or removing heat. <??>Preferred Features: A heated and/or cooled starting mold is used. The starting mold is a metal plate, a hollow green body or a semi-finished material, such as a tube. The starting mold is made from an aluminum magnesium alloy containing 3-5 wt.% magnesium (Mg), up to 0.2 wt.% zirconium (Zr), up to 0.15 wt.% manganese (Mn), up to 0.3 wt.% titanium (Ti) and a balance of aluminum (Al).

IPC 1-7

**B21D 26/02**; **B21J 5/04**

IPC 8 full level

**B21D 26/02** (2011.01); **B21D 26/021** (2011.01); **B21J 1/06** (2006.01); **B21J 5/02** (2006.01); **B21J 5/08** (2006.01); **B21K 1/00** (2006.01)

CPC (source: EP)

**B21D 26/021** (2013.01); **B21D 37/16** (2013.01); **B21D 53/88** (2013.01); **B21J 1/06** (2013.01); **B21J 5/02** (2013.01); **B21J 5/08** (2013.01); **B21K 1/00** (2013.01)

Citation (search report)

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- [X] DE 19614656 A1 19971016 - AUDI AG [DE], et al
- [A] CH 673603 A5 19900330 - ALUSUISSE
- [A] PATENT ABSTRACTS OF JAPAN vol. 016, no. 507 (M - 1327) 20 October 1992 (1992-10-20)

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Designated contracting state (EPC)

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**EP 1321204 A2 20030625**; **EP 1321204 A3 20050309**; DE 10162441 A1 20030703

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