Title (en)

Method for manufacturing a motor vehicle part

Title (de)

Verfahren zur Herstellung eines Kraftfahrzeugbauteils

Title (fr)

Procédé de fabrication d'un élément de véhicule automobile

Publication

EP 2332671 A1 20110615 (DE)

Application

EP 10008638 A 20100819

Priority

DE 102009054315 A 20091124

Abstract (en)

The method for producing a motor vehicle component such as a running-gear component, comprises providing a mineral core body, heating the core body, casting the core body with a light metal casting, producing a blank and processing the blank and shaping the motor vehicle component. T he core body is heated up to a temperature in which gas present in the core body is expelled to the predominant part. The heating is carried out at 300-700[deg] C. The core body is heated at a temperature, which corresponds with a deviation of +- 100[deg] C of the temperature of the light metal casting. The method for producing a motor vehicle component such as a running-gear component, comprises providing a mineral core body, heating the core body, casting the core body with a light metal casting, producing a blank and processing the blank and shaping the motor vehicle component. T he core body is heated up to a temperature in which gas present in the core body is expelled to the predominant part. The heating is carried out at 300-700[deg] C. The core body is heated at a temperature, which corresponds with a deviation of +- 100[deg] C of the temperature of the light metal casting, which has a cast around the core body. The core body is provided before or after the heating with a sealing or coating. Aluminum-iron magnesium silicate or aluminum-iron-magnesium-silicate is used the core body. Aluminum and/or an aluminum alloy or magnesium and/or a magnesium alloy is used as the light metal casting. The density and/or the strength of the core body is adjusted during the forging process. In the forging technique, the processing of the blank is carried out at 400-600[deg] C.

Abstract (de)

Die Erfindung betrifft Verfahren zur Herstellung von Kraftfahrzeugbauteilen, insbesondere Fahrwerksbauteilen. Ein mineralischer Kernkörper aus Silikat wird auf eine Vorwärmtemperatur erwärmt und im Kernkörper enthaltene Gase ausgetrieben. Anschließend wird der Kernkörper mit Leichtmetallguss umgossen und der so hergestellte Rohling schmiedetechnisch bearbeitet und das Kraftfahrzeugbauteil geformt.

IPC 8 full level

B22C 9/10 (2006.01); **B21J 5/00** (2006.01); **B22C 1/00** (2006.01); **B22D 19/04** (2006.01); **B22D 21/04** (2006.01)

CPC (source: EP)

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Citation (applicant)

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Designated contracting state (EPC)

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