

Title (en)

Method and apparatus for producing castings from light alloys

Title (de)

Verfahren und Vorrichtung zur Herstellung von Gussformteilen aus Leichtmetall

Title (fr)

Procédé et dispositif de coulage de composants en alliage léger

Publication

EP 1900457 A1 20080319 (DE)

Application

EP 06120560 A 20060913

Priority

EP 06120560 A 20060913

Abstract (en)

The die-casting method of making cast shapes (2) e.g. vehicle frame, side parts or other supporting parts of the vehicle from light alloy, comprises cooling the cast shape after opening a mold (4) at voltage-sensitive areas with a coolant, which is formed as water, air or inert gas. In the control and regulation of the casting process, a signal is intended for opening of a coolant supply for cooling of the voltage-sensitive areas of the cast shapes. The signal is set immediately after opening the half-molds (7, 9) of the mold. The quantity and temperature of the coolant is measured. The die-casting method of making cast shapes (2) e.g. vehicle frame, side parts or other supporting parts of the vehicle from light alloy, comprises cooling the cast shape after opening a mold (4) at voltage-sensitive areas with a coolant, which is formed as water, air or inert gas. In the control and regulation of the casting process, a signal is intended for opening of a coolant supply for cooling of the voltage-sensitive areas of the cast shapes. The signal is set immediately after opening the half-molds (7, 9) of the mold. The quantity and temperature of the coolant is measured. The cast shape is cooled on a movable clamping plate (10) within the voltage-sensitive areas before ejecting from the movable half-mold. An independent claim is included for a device for making cast shapes.

Abstract (de)

Es wird ein Verfahren zur Herstellung von Gussformteilen (2) aus Leichtmetall im Druckgussverfahren vorgeschlagen, wobei unmittelbar nach dem Öffnen der Druckgiessform (4) das Gussformteil (2) gezielt an spannungsempfindlichen Bereichen mit einem Kühlmittel gekühlt wird. Es wird auch eine Vorrichtung zur Herstellung von Gussformteilen (2) vorgeschlagen.

IPC 8 full level

B22D 27/04 (2006.01); **B22D 30/00** (2006.01)

CPC (source: EP)

B22D 27/04 (2013.01); **B22D 30/00** (2013.01)

Citation (search report)

- [X] JP S6061164 A 19850408 - TOYOTA MOTOR CO LTD
- [X] JP S60170567 A 19850904 - TOPY IND
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- [X] JP H04274863 A 19920930 - TOYOTA MOTOR CORP
- [X] DE 10334766 A1 20040226 - DENSO CORP [JP]

Cited by

DE102011119002A1; CN104416022A

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

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