

Title (en)

Low-pressure casting method and device therefore

Title (de)

Niederdruck-Giessverfahren und Vorrichtung hierfür

Title (fr)

Procédé de coulée à basse pression et dispositif correspondant

Publication

**EP 1894648 B1 20101124 (DE)**

Application

**EP 07112730 A 20070719**

Priority

DE 102006040256 A 20060828

Abstract (en)

[origin: EP1894648A1] The low-pressure casting method for metals, comprises filling liquid metal in a form cavity (13) under pressure in a filling phase by a pump from a melt supply (1) over a pump pipe (15), solidifying the metals under balance vibration in cavity and applying low pressure on the metal by a piston in a low-pressure phase. In the melt supply a movable piston (8) is set in a holding pressure cylinder (7) connected to the pump pipe. The pump is arranged in a furnace chamber in a distance from the base and from upper melt level. The low-pressure casting method for metals, comprises filling liquid metal in a form cavity (13) under pressure in a filling phase by a pump from a melt supply (1) over a pump pipe (15), solidifying the metals under balance vibration in cavity and applying low pressure on the metal by a piston in a low-pressure phase. In the melt supply, a movable piston (8) is arranged in a holding pressure cylinder (7) connected to the pump pipe. The pump is arranged in a furnace chamber in a distance from the base and from upper melt level. A valve function is inserted within the melt supply for agitating the melt and blocks the connection between the pump pipe and the holding pressure cylinder. An independent claim is included for a device for die casting.

IPC 8 full level

**B22D 17/02** (2006.01); **B22D 17/04** (2006.01); **B22D 18/04** (2006.01); **B22D 27/11** (2006.01)

CPC (source: EP)

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Cited by

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