

Title (en)

Method for manufacturing cast iron parts by means of metal moulds incorporating a vacuum system.

Title (de)

Verfahren zur Herstellung von Gusseisenteilen in Metallformen, die ein Vakuumsystem beinhalten.

Title (fr)

Procédé de fabrication des pièces en fonte dans une coquille avec un système à vide.

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Application

EP 91500117 A 19911023

Priority

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Abstract (en)

Method for manufacturing cast iron parts (13) by means of metal moulds (8,9) incorporating a vacuum system (5,6,7). The object of the invention is to fit the installation with air outlet nozzles connected to a channel, from which a vacuum is obtained inside the mould, the molten metal (2) entering the mouth located on the upper side, the introduction of the molten metal being automatically stopped when the cavity is full, the mould being fitted with an airtight closure during its filling which is locked and held by pressure exerted toward the upper side by hydraulic cylinders (12) located on the lower side, a predetermined period of time being elapsed later in order to insure the hardening, and then the mould being opened through a mechanical ejecting system (11), so assuring that the workpart is pulled simultaneously apart from the mould itself, the vacuum action being carried out later in a reverse manner and air being applied inside the mould. <IMAGE>

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B22D 27/15

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [A] PATENT ABSTRACTS OF JAPAN vol. 7, no. 55 (M-198)(1200) 5 March 1983 & JP-A-57 202 958 (AKIRA WASHIDA) 13 December 1982
- [A] PATENT ABSTRACTS OF JAPAN vol. 11, no. 1 (M-550)(2448) 6 January 1987 & JP-A-61 180 643 (TOYODA GOSEI CO LTD) 13 August 1986
- [A] PATENT ABSTRACTS OF JAPAN vol. 7, no. 1 (M-183)(1146) 6 January 1983 & JP-A-57 160 565 (KOMATSU SEISAKUSHO K.K.) 2 October 1982

Cited by

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