

Title (en)

Apparatus and method for producing a core

Title (de)

Vorrichtung und Verfahren zur Herstellung eines Kernes

Title (fr)

Dispositif et procédé pour la production d'un noyau

Publication

EP 0774311 A1 19970521 (EN)

Application

EP 96118272 A 19961114

Priority

- JP 32366095 A 19951117
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Abstract (en)

A method is disclosed of producing a highly consolidated sand core. The method includes the steps of closing metal mold halves (13a, 13b) to define a core space (14), charging gas-curable molding sand into the mold space, evacuating the core space to a pressure of 2 - 100 Torr, introducing air into the evacuated core space at an air pressure that increases at a rate of 50 - 600 kg/cm² /sec to apply a pressure to the surface of the gas-curable molding sand to obtain a high charging density; and introducing a curing gas into the core space to harden the molding sand.

<IMAGE>

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IPC 8 full level

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CPC (source: EP KR)

B22C 9/123 (2013.01 - EP); **B22C 15/24** (2013.01 - EP); **H01F 41/02** (2013.01 - KR)

Citation (applicant)

JP S4813804 B1 19730501

Citation (search report)

- [Y] EP 0123756 A1 19841107 - NANIWA PRODUCTS CO LTD [JP]
- [Y] CH 612605 C
- [A] DE 9315614 U1 19931223 - HOTTINGER ADOLF MASCH [DE]
- [A] EP 0443287 A2 19910828 - NANIWA PRODUCTS CO LTD [JP]

Cited by

DE102016123050A1; WO2018099894A1; CN102632203A; CN102078933A

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