

Title (en)

HETEROPOROUS FORM TOOL FOR MANUFACTURING CASTING MOULDS FROM MOULDING SAND AND PROCESS FOR ITS MANUFACTURE.

Title (de)

HETEROPORÖSES FORMWERKZEUG ZUR HERSTELLUNG VON GUSSFORMEN AUS FORMSAND UND VERFAHREN ZU DESSEN HERSTELLUNG.

Title (fr)

OUTIL HETEROPOREUX DE FORMAGE DE MOULES DE FONTE EN SABLE DE MOULAGE ET SON PROCEDE DE FABRICATION.

Publication

**EP 0342209 A1 19891123 (DE)**

Application

**EP 88908950 A 19881020**

Priority

DE 3735751 A 19871022

Abstract (en)

[origin: WO8903736A1] Form tool for manufacturing casting moulds from moulding sand, process for its manufacture, and its advantageous use. A form tool for manufacturing sand moulds by chemical hardening of the moulding sand by means of reaction gases has a wall with a novel open-pore, heteroporous structure. The wall has a narrow, fine-pore region (3) which comes in contact with the moulding sand and which is in direct contact with a large-pore supporting skeleton (4).

Abstract (de)

Die Erfindung betrifft ein Formwerkzeug zur Herstellung von Gussformen aus Formsand, ein Verfahren zu dessen Herstellung und eine vorteilhafte Verwendung des Formwerkzeuges. Das erfinderische Formwerkzeug zur Herstellung von Sandformen durch chemisches Aushärten des Formsandes mittels Reaktionsgasen weist einen neuartigen offenporigen, heteroporösen Wandaufbau auf. Die Wand hat einen schmalen, feinporigen Bereich (3), welcher mit dem Formsand in Berührung kommt. An diesen Bereich schliesst ein grossporiges Stützskelett (4) materialschlüssig an. Abstract Form tool for manufacturing casting moulds from moulding sand, process for its manufacture, and its advantageous use. A form tool for manufacturing sand moulds by chemical hardening of the moulding sand by means of reaction gases has a wall with a novel open-pore, heteroporous structure. The wall has a narrow, fine-pore region (3) which comes in contact with the moulding sand and which is in direct contact with a large-pore supporting skeleton (4).

Abstract (fr)

Outil de formage de moules de fonte en sable de moulage, son procédé de fabrication et utilisation avantageuse de l'outil de formage. Un outil de formage de moules en sable par durcissement chimique du sable de moulage au moyen de gaz de réaction présente une paroi ayant une structure hétéroporeuse nouvelle à pores ouverts. La paroi comprend une mince zone (3) à pores fins qui entre en contact avec le sable de moulage et qui est en communication directe avec une charpente de soutien (4) à grands pores.

IPC 1-7

**B22C 7/06**; **B22C 9/12**

IPC 8 full level

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CPC (source: EP KR US)

**B22C 5/18** (2013.01 - KR); **B22C 7/06** (2013.01 - EP US); **B22C 9/123** (2013.01 - EP US)

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