

Title (en)

METHOD AND MOLD TOOL OR CORE TOOL FOR PRODUCING MOLDS OR CORES

Title (de)

VERFAHREN UND FORM- ODER KERNWERKZEUG ZUR HERSTELLUNG VON FORMEN ODER KERNEN

Title (fr)

PROCÉDÉ ET OUTIL DE MOULAGE OU OUTIL À NOYAU DESTINÉS À FABRIQUER DES MOULES OU DES NOYAUX

Publication

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Application

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Abstract (en)

[origin: WO2018103784A1] The invention relates to a method for more quickly producing molds (2) or cores (2') for foundry purposes by adapting the specific electrical resistance in the selection of the core box to the mixture (9) of a molding material and of a water-containing binder, which binder, when dissolved, forms an electrolyte and has a sufficient electrical conductivity. It is essential to the invention that an electrically conductive material (7) for holding the mixture (9) is introduced into an electrically non-conductive housing (3), wherein the specific electrical conductivity of the material (7) at operating temperature (7) at least approximately corresponds to the specific electrical conductivity of the mixture (9) at temperatures between 100 °C and 130 °C, and that electrical energy and thus heat are supplied to the material (7) via electrodes (10) arranged in/on the housing (3) (resistance heating principle), leading to curing of the mixture (9). Depending on the sand core, up to 30 % shorter cycle times can be achieved.

IPC 8 full level

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