

Title (en)

METHOD FOR PRODUCING A MOULDING MATERIAL MIXTURE AND A MOULDED BODY THEREOF IN THE CASTING INDUSTRY AND KIT FOR USE IN THIS METHOD AND INSTALLATION FOR USE WITH THIS METHOD

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER FORMSTOFFMISCHUNG UND EINES FORMKÖRPERS DARAUS IN DER GIESSEREIINDUSTRIE SOWIE KIT ZUR ANWENDUNG IN DIESEM VERFAHREN UND ANLAGE ZUR VERWENDUNG BEI DIESEM VERFAHREN

Title (fr)

PROCÉDÉ DE FABRICATION D'UN MÉLANGE DE MATÉRIAUX DE MOULAGE ET D'UN CORPS MOULÉ À PARTIR DE CE DERNIER DANS L'INDUSTRIE DE FONDERIE ET ENSEMBLE D'APPLICATION DANS CE PROCÉDÉ ET INSTALLATION D'UTILISATION SELON CE PROCÉDÉ

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Application

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Abstract (en)

[origin: WO2019002452A1] A description is given of a method for producing a moulding material mixture or for producing a moulding material mixture and a moulded body thereof, preferably casting moulds or cores, for use in the casting industry, wherein the moulding material mixture comprises a moulding base material and a solution or dispersion comprising lithium-containing sodium silicate, comprising the steps of: (1) producing or providing a kit at least comprising as separate components: (K1) an aqueous solution or dispersion comprising sodium silicate and (K2a) a first sodium-silicate-free solution or dispersion comprising lithium ions dissolved in water and preferably (K2b) a second sodium-silicate-free solution or dispersion, preferably comprising lithium ions dissolved in water of a lower concentration than in component (K2a), and then (2) producing a mixture of the moulding base material with a proportion of the component (K1) and with a proportion of the component (K2a) and also optionally with a proportion of the component (K2b). Also described is an aforementioned kit, in particular for use in the method according to the invention. Also specified is an installation for producing an intermediary solution or dispersion, comprising lithium-containing sodium silicate for use in the production of a moulding material mixture or for the production of a moulding material mixture and a moulded body thereof.

IPC 8 full level

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