

Title (en)
MOULDING MATERIAL MIXTURE CONTAINING CARBOHYDRATES

Title (de)
KOHLENHYDRATHALTIGE FORMSTOFFMISCHUNG MIT EIN ANTEIL EINES TEILCHENFÖRMIGEN METALLOXIDS ZUM AUF WASSERGLAS BASIERENDEM BINDEMittel ZUGESETZ

Title (fr)
MÉLANGE DE MATIÈRES DE MOULAGE À BASE D'HYDRATES DE CARBONE

Publication
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Application
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Priority

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- DE 102006061876 A 20061228
- EP 2007009108 W 20071019

Abstract (en)
[origin: WO2008046651A1] The invention relates to a moulding material mixture for producing casting moulds for machining metal, to a method for producing casting moulds, to casting moulds obtained according to said method and to the use thereof. A fire-resistant moulding base material and a binding agent based on water glass are used in the production of casting moulds. A fraction of the particulate metal oxide is added to the binding agent, said metal oxide being selected from the group comprising silicon dioxide, aluminium oxide, titanium oxide and zinc oxide. Synthetic amorphous silicon dioxide is preferably used. Said moulding material mixture contains a carbohydrate as an additional component. The mechanical resistance of casting moulds and the quality of the surface of the casting piece can be improved by adding carbohydrates.

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B22C 1/18 (2013.01 - KR); **B22C 1/188** (2013.01 - EP US); **B22C 1/26** (2013.01 - EP KR US)

Citation (search report)
See references of WO 2008046651A1

Cited by
DE102017114628A1; CN111253150A; WO2021023493A1; WO2019002452A1; DE102020119013A1; WO2022013129A1

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