

Title (en)

METHOD FOR PRODUCING A CASTING MOULD FOR CASTING HIGHLY-REACTIVE MELTS

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER GUSSFORM ZUM VERGIESSEN HOCHREAKTIVER SCHMELZEN

Title (fr)

PROCÉDÉ POUR PRODUIRE UN MOULE SERVANT À COULER UNE MASSE EN FUSION HAUTEMENT RÉACTIVE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2010034762A2] The invention relates to a method for producing a casting mould for casting highly reactive melts, in particular for casting titanium, titanium alloys or intermetallic titanium aluminides. Said method consists of the following steps: a contact layer (1) is produced by applying a first slicker containing a first Y<sub>2</sub>O<sub>3</sub>-powder as an essentially solid component, to a mould core, the contact layer (1) formed from the first slicker is sanded with a second Y<sub>2</sub>O<sub>3</sub>-powder containing Y<sub>2</sub>O<sub>3</sub> as the essential component. With respect to a particular efficient process, a first dry mass for producing the first slicker contains at least 75 wt.% Y<sub>2</sub>O<sub>3</sub> and as additional solid components, at least 1.0 - 25 wt.% of a hydraulic binder.

IPC 8 full level

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