

Title (en)

COATED SAND, MANUFACTURING METHOD FOR SAME, AND MANUFACTURING METHOD FOR MOLD

Title (de)

BESCHICHTETER SAND, HERSTELLUNGSVERFAHREN DAFÜR UND HERSTELLUNGSVERFAHREN FÜR EINE FORM

Title (fr)

SABLE ENROBÉ, PROCÉDÉ DE FABRICATION DE CELUI-CI ET PROCÉDÉ DE FABRICATION D'UN MOULE

Publication

EP 2937160 A1 20151028 (EN)

Application

EP 13864998 A 20131218

Priority

- JP 2012276478 A 20121219
- JP 2013083903 W 20131218

Abstract (en)

Purposes of the present invention are to provide a dry coated sand having a high degree of fluidity at the room temperature, a method of advantageously producing the coated sand, and a method of producing a casting mold having excellent properties, by using the coated sand. The dry coated sand is obtained by mixing an aqueous solution of a water glass used as a binder, with a heated refractory aggregate, whereby water in the aqueous solution is evaporated, and a coating layer of the binder is formed on surfaces of the refractory aggregate. A moisture percentage in the thus obtained dry coated sand is controlled so as to be not more than 0.5% by mass. The intended casting mold is obtained by filling a molding cavity of a forming mold, with the dry coated sand, and passing a steam through the coated sand, to solidify or cure the coated sand.

IPC 8 full level

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CPC (source: EP US)

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Cited by

EP3406672A1; US11111389B2; US10507516B2; EP3159073A4

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Designated extension state (EPC)

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DOCDB simple family (publication)

US 2015231691 A1 20150820; CN 104903023 A 20150909; CN 104903023 B 20170616; EP 2937160 A1 20151028; EP 2937160 A4 20160907; JP 6193884 B2 20170906; JP WO2014098129 A1 20170112; WO 2014098129 A1 20140626

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