

Title (en)
METHOD FOR PREPARING A FOUNDRY SAND MIXTURE

Title (de)
VERFAHREN ZUR AUFBEREITUNG EINER GIESSEREISANDMISCHUNG

Title (fr)
PROCÉDÉ DE PRÉPARATION D'UN MÉLANGE DE SABLE DE FONDERIE

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Abstract (en)
[origin: WO2020003277A1] The invention relates to a method for the cost-effective, resource-saving and highly-productive recovery of moulding sand (F) from a foundry sand mixture (G) containing at least a portion (FAB) of fragments or loose particles of moulding material produced during the demoulding of a cast part from a casting mould as a result of the destruction of mould cores or mould parts forming the cast part, which have been formed from the moulding sand (F) and an inorganic binder and optionally at least one additive for controlling the properties of the moulding material, wherein the method comprises the working steps of a) mixing the foundry sand mixture (G) with cleaning water (RW) to form a slurry (S) in order to remove the inorganic binder residues (AB) contained in the foundry sand mixture (G) and optionally present additives from the moulding sand (F) and to wash them out of the foundry sand mixture (G), and b) separating the cleaning water (RWK) contaminated with the inorganic binder residues (AB) from the moulding sand (F) contained in the slurry (S), and wherein the process temperature of the slurry (S) formed from the cleaning water and the foundry sand mixture (G) (working step a)) is between 50 and 200 °C.

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Citation (opposition)
Opponent : DEANTEC GmbH

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