

Title (en)

Process and apparatus for reclaiming foundry sand.

Title (de)

Verfahren und Vorrichtung zum Regenerieren von Giesserei-Formsand.

Title (fr)

Procédé et installation pour régénérer les sables de moulage.

Publication

EP 0012047 A1 19800611 (FR)

Application

EP 79400807 A 19791030

Priority

FR 7831830 A 19781110

Abstract (en)

[origin: US4291379A] The method for automatically regenerating molding sands consists in mixing the spent sand and in intermittently withdrawing a cylindrical test sample of sand. The compactibility of the test sample is measured intermittently by determining the reduction in height of the sample under the action of a predetermined force. The quantity of water to be added to the sand is determined by means of a microprocessor from the result of the measurement and from the temperature of the sample. The results of measurements of compactibility and compressive strength of the test sample are transmitted to the microprocessor which determines the quantity of bentonite, of foundry black and the like to be added to the spent sand.

Abstract (fr)

Dans le procédé pour régénérer automatiquement les sables de moulage utilisés en fonderie, on malaxe le sable usé (3), on prélève par intermittence une éprouvette cylindrique de sable, on détermine des propriétés physiques de cette éprouvette et on transmet les résultats obtenus à un calculateur (17) qui détermine les quantités d'eau, de bentonite, de noir et analogue à ajouter au sable usé, puis commande automatiquement l'addition de ces quantités au sable usé.

IPC 1-7

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CPC (source: EP US)

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Citation (search report)

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- US 3373977 A 19680319 - DIETERT HARRY W
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