

Title (en)

METHOD AND DEVICE FOR SEPARATING CASTING MATERIAL FROM POURED GREEN SAND MOLD

Title (de)

VERFAHREN UND VORRICHTUNG ZUM TRENNEN VON GIESSMATERIAL UND NASSGUSSFORM

Title (fr)

PROCEDE ET DISPOSITIF DE SEPARATION D'UN MATERIAU DE COULAGE PROVENANT D'UN MOULE EN SABLE VERT COULE

Publication

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Application

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- JP 20024599 A 19990714
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- JP 27074899 A 19990924
- JP 28849599 A 19991008
- JP 31392399 A 19991104

Abstract (en)

[origin: EP1228826A1] This invention provides a method and an apparatus for taking out an as-cast product from a greensand mold that has been provided with molten metal such that the as-cast product is not damaged. The method of the invention is one that separates an as-cast product from a greensand mold that has been provided with molten metal, comprising the steps of transferring a greensand cope and a greensand drag that have been filled with molten metal at an casting line from the casting line to a predetermined place; surrounding airtightly within a chamber at least either one of the greensand cope and drag and an as-cast product in the at least one greensand mold, both of which are located at the predetermined place; and evacuating the chamber to lower the boiling point of the moisture in the moisture-condensed layer of the at least one greensand mold, to boil the moisture in the moisture-condensed layer to collapse the at least one greensand mold, thereby separating the as-cast product from the at least one greensand mold. <IMAGE>

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Citation (search report)

- [A] US 5332023 A 19940726 - MILLS DAVID [GB]
- [A] US 3563711 A 19710216 - HAMMOND CHARLES M, et al
- See references of WO 0105538A1

Cited by

EP1844882A4; WO2006068029A1; US10226815B2

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