

Title (en)

APPARATUS FOR PREVENTING NOZZLE CLOGGING, APPARATUS FOR CONTINUOUS CASTING HAVING THE SAME, METHOD FOR PREVENTING NOZZLE CLOGGING AND METHOD FOR CONTINUOUS CASTING USING THE SAME

Title (de)

VORRICHTUNG ZUR VERHINDERUNG DES VERSTOPFENS EINER DÜSE, STRANGGIESSVORRICHTUNG DAMIT, VERFAHREN ZUR VERHINDERUNG DES VERSTOPFENS EINER DÜSE UND DIESES VERWENDENDE STRANGGIESSVERFAHREN

Title (fr)

PROCÉDÉ ET APPAREIL POUR EMPÊCHER L'OBTURATION DE Busette, PROCÉDÉ ET APPAREIL POUR LA COULÉE CONTINUE LE COMPRENANT

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Application

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Abstract (en)

[origin: WO2009002105A1] The present invention relates to an apparatus for preventing nozzle clogging, which rapidly estimates the degree of nozzle clogging when molten steel is supplied from a tundish to a mold and then controls a casting state according to the estimation result, an apparatus for continuous casting having the same, a method for preventing nozzle clogging and a method for continuous casting using the same. The present invention includes measuring backpressure of inert gas supplied to a casting nozzle in real time; and calculating a nozzle status index from the measured actual backpressure. There are effects in that it is possible to rapidly and accurately estimate the location and degree of nozzle clogging based on a backpressure change of inert gas supplied to a casting nozzle, to detect leakage of the inert gas, and to improve a casting yield and quality of strands by suitably controlling inert gas supplied to a casting nozzle.

IPC 8 full level

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