

Title (en)

METHOD FOR ROTARY ELECTROMAGNETIC STIRRING OF A MOLTEN METAL DURING CASTING OF A PRODUCT HAVING A WIDE CROSS-SECTION AND APPARATUS FOR IMPLEMENTING SAME

Title (de)

VERFAHREN FÜR ROTIERENDES ELEKTROMAGNETISCHES RÜHREN EINER METALLSCHMELZE BEIM GIESSEN EINES PRODUKTS MIT GROSSEM QUERSCHNITT UND VORRICHTUNG ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)

PROCÉDÉ DE BRASSAGE ÉLECTROMAGNÉTIQUE ROTATIF D'UN MÉTAL EN FUSION AU COURS DE LA COULÉE D'UN PRODUIT A LARGE SECTION ET ÉQUIPEMENT POUR SA MISE EN UVRE.

Publication

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Application

EP 16705807 A 20160119

Priority

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Abstract (en)

[origin: WO2017125649A1] During the casting of XXL metal products of round, square or rectangular cross-section, an electromagnetic stirring apparatus is used that is specific to the casting machine receiving same and that includes polyphase, linear or circular inductors having a moving (sliding or rotating) magnetic field and, in order in particular to correctly homogenize the temperature of the molten metal in planes perpendicular to the casting axis, said apparatus is implemented such that the cast molten metal is stirred in a plurality of adjacent axial rotary flow loops, distributed side by side around the casting axis in order to best occupy the entire cross-section of the cast product.

IPC 8 full level

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