

Title (en)

METHOD AND APPARATUS FOR STIRRING AND TREATING CONTINUOUS AND SEMI CONTINUOUS METAL CASTING

Title (de)

VERFAHREN UND VORRICHTUNG ZUM RÜHREN UND BEHANDLEN BEI STRANGGUSS UND HALBKONTINUIERLICHEM GIESSEN VON METALL

Title (fr)

PROCEDE ET DISPOSITIF POUR LE BRASSAGE ET LE TRAITEMENT DES METAUX EN COULEE CONTINUE ET SEMI-CONTINUE

Publication

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Application

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Abstract (en)

[origin: WO03018231A1] A method and apparatus for stirring and treating continuous and semi-continuous casting of metallic rods (12). The apparatus comprising: a stand (30) for suspending at least one electric arc electrode (24) over the upper surface of a metallic casting (14) after or during pouring, at least one electrode (24) for forming a moving electric arc (38) over the upper surface of the mettalic casting being cast, a second electrode, being the liquid metal (14), for completion of an electric circuit including said electric arc (38) and the liquid metal (14); and control means (34), connected between said apparatus and a power supply (36) and arranged to supply power to the plasma arc electrodes (14, 24), for monitoring the parameters of the electric arc (38). The invention also provides a method for casting the metallic rods (12) by using the above described apparatus.

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Citation (search report)

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- [A] US 5963579 A 19991005 - HENRYON MICHEL [FR]
- [X] MOORE C ET AL: "PLASMA TUNDISH HEATING AS AN INTEGRAL PART OF CONTINUOUS CASTING", STEEL TIMES INTERNATIONAL, DMG WORLD MEDIA, LEWES, GB, vol. 13, no. 2, 1 May 1989 (1989-05-01), pages 44 - 46, XP000046437, ISSN: 0143-7798
- See references of WO 03018231A1

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