

Title (en)
METHOD FOR INFLUENCING A LIQUID METAL CHEMICAL COMPOSITION IN A LADLE AND AN EQUIPMENT SYSTEM FOR CARRYING OUT SAID METHOD

Title (de)
VERFAHREN ZUR BEEINFLUSSUNG EINER CHEMISCHEN FLÜSSIGMETALLZUSAMMENSETZUNG IN EINEM TIEGEL UND AUSRÜSTUNGSSYSTEM ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)
PROCEDER POUR MODIFIER LE METAL LIQUIDE DANS UNE POCHE DE COULEE ET ENSEMBLE D'EQUIPEMENTS PREVUS A CET EFFET

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EP 1857202 A4 20080507 (EN)

Application
EP 05792855 A 20050623

Priority
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• RU 2005106352 A 20050310

Abstract (en)
[origin: EP1857202A1] The invention relates to ferrous metallurgy, more exactly to steelmaking. The method suggests the passing of steel flow poured from the smelting chamber into the bucket inside the canal and in the process of such a pass to deliver into the metal flow deoxidizing and desulfurizing agents as well as other modifying elements changing chemical composition of metal in the bucket. The delivery is carried out by the way of free sedimentation with the help of screw and gas injection. Inactive or inert gas is used in all examples. The delivery of elements is carried out at the input to the canal including in several sections along its perimeter. The delivery of elements is carried out in several sections throughout the height and along the perimeter of the canal. It was suggested to succeed the sections of element delivery and in the process of this succeeding to replace the bucket. The elements are given in flour and / or granules. Outfit of equipment for method realization except for smelting chamber, bucket and rated delivery system of elements also includes a mechanism that contains a canal the operating space of which is made of fireproof material, in particular graphite, at that during the process of steel pouring the mechanism is positioned between the outlet of smelting chamber and the bucket, upon that under mentioned positioning of mechanism the long axis of the canal and that of the outlet are coaxial. The mechanism possesses a drive of displacement or self-adjusting or can be immovably mounted. The mechanism contains a bearing construction and replaceable part with canal. The last is made of graphite. The canal has a tapered form at the entrance and the rest part is cylindrical, at that canting angle of the tapered surface from vertical line comprises maximum 30°. I11. 14.

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Citation (search report)
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• See references of WO 2006096089A1

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