

Title (en)

STIRRING ROLLER FOR A MACHINE FOR THE CONTINUOUS CASTING OF METALLIC PRODUCTS OF BROAD CROSS SECTION

Title (de)

RÜHRWALZE FÜR EINE MASCHINE ZUM STRANGGIESSEN METALLISCHER PRODUKTE MIT BREITEM QUERSCHNITT

Title (fr)

ROULEAU BRASSEUR POUR MACHINE DE COULÉE CONTINUE DE PRODUITS MÉTALLIQUES À LARGE SECTION DROITE

Publication

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Application

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Priority

EP 2012001330 W 20120327

Abstract (en)

[origin: WO2013143557A1] Stirring roller comprising: (a) a shell ring 1 made of nonmagnetic steel in rotation of axis A-A and intended to come into contact with the surface of a large face of the cast slab (6), (b) mechanical-connection members, arranged on each side of the shell ring to support the shell ring while leaving it free to rotate axially, (c) support elements 4 which are offset on either side beyond the limits of the shell ring and fixed to the chassis 5 of the casting machine, (d) internal electromagnetic equipment consisting of at least one polyphase linear inductor 8 mounted coaxially with respect to the shell ring so as to leave between the two an annular space 11 through which a cooling liquid can circulate, and which constitutes an axial shaft provided with terminal extensions 20 that rest, without the ability to rotate axially, on the fixed support elements 4 and which are hollow so as to allow the passage of the cooling liquid and of the electrical connections of the inductor, and (e) inlet/outlet casings 16 for the cooling liquid which are provided with electrical connection terminals 18a, 18b and mounted at the ends of the terminal extensions 20 of the inductor beyond the fixed support elements 4; this stirring roller, which is characterized in the shell ring bears against said terminal extensions (20) of the inductor (8) via rolling bearings (3), has been designed to be suitable also for the casting of extra-wide slabs.

IPC 8 full level

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CPC (source: EP KR RU US)

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