

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

**EP 2830794 A1 20150204 (FR)**

Application

**EP 12719254 A 20120327**

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

**B22D 11/115** (2006.01); **B22D 11/12** (2006.01)

CPC (source: EP KR RU US)

**B22D 11/0651** (2013.01 - KR US); **B22D 11/115** (2013.01 - EP KR RU US); **B22D 11/122** (2013.01 - EP KR US); **B22D 11/12** (2013.01 - RU)

Citation (search report)

See references of WO 2013143557A1

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**WO 2013143557 A1 20131003**; BR 112014019299 A2 20170620; BR 112014019299 A8 20170711; BR 112014019299 B1 20181121; CN 104159686 A 20141119; CN 104159686 B 20160323; EP 2830794 A1 20150204; EP 2830794 B1 20161026; JP 2015511536 A 20150420; JP 5874945 B2 20160302; KR 101728444 B1 20170502; KR 20140138700 A 20141204; RU 2014132904 A 20160520; RU 2600776 C2 20161027; US 2015290703 A1 20151015

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