

Title (en)
COOLED STRAND GUIDE ROLLER

Title (de)
GEKÜHLTE STRANGFÜHRUNGSROLLE

Title (fr)
ROULEAU DE GUIDAGE DE BARRES REFROIDI

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Application
EP 14747330 A 20140722

Priority

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- EP 2014065741 W 20140722

Abstract (en)
[origin: WO2015011149A2] The invention relates to a strand guide roller (30) for guiding a steel strand in a strand casting machine and to a method for cooling the strand guide roller (30) using a coolant. The aim of the invention is to provide a particularly robust cooled strand guide roller (30). This is achieved by a strand guide roller (30) having - a left (10a) and a right bearing block (10b); - a stationary axle (11), said stationary axle (11) being connected to the left (10a) and to the right bearing block (10b) in a torsionally rigid manner; - a cylindrical roller casing (12) and a left (13a) and a right bearing (13b), said roller casing (12) being supported by the left and right bearing (13a, 13b) in a rotatable manner relative to the stationary axle (11); and - a water conducting casing (1), wherein the water conducting casing (1) can conduct cooling water from a left cavity (14a) between the axle (11) and the water conducting casing (1) in the region of the left bearing (13a) into a longitudinal space (16) between the water conducting casing (1) and the roller casing (12), along the longitudinal space (16) in an axial (x) and a tangential direction (t), and from the longitudinal space (16) into a right cavity (14b) between the water conducting casing (1) and the axle (11) in the region of the right bearing (13b).

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Citation (opposition)
Opponent : SMS Concast AG

- DE 1583619 A1 19700820 - DEMAG AG
- DE 3823655 A1 19900111 - MANNESMANN AG [DE]
- WO 2011026957 A1 20110310 - GEORG SPRINGMANN IND UND BERGBAUTECHNIK GMBH [DE], et al

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