

Title (en)

Method and device for controlling crown adjustment on rolls in a metal strip casting machine

Title (de)

Verfahren und Vorrichtung zu Regelung der Balligkeit von Zylindern in eine Metallbandgiessvorrichtung

Title (fr)

Procédé et dispositif de réglage du bombé des cylindres d'une installation de coulée de bandes métalliques

Publication

EP 0736350 B1 20010919 (FR)

Application

EP 96400602 A 19960322

Priority

FR 9504139 A 19950407

Abstract (en)

[origin: EP0736350A1] Casting device for a metal strip (9) where the solidification is effected by passing the molten metal between two counter rotating rolls (1,1') on horizontal axes. The rolls (1,1') are cooled by the internal circulation of a cooling fluid and the roll gap defines the casting space (2) for the molten metal. The outer surfaces (3,3') of the rolls have a specified roughness. The casting space (2) is rendered inert by blowing a given quantity of a gas or gas mixture across a cover (10) covering the casting space (2). The camber of the rolls (1,1') is regulated by changing the quantity of injected gas and/or the nature of the gas or the composition of the gas mixture, at least around the surface of each roll upstream of the contact zone with the molten metal. Also claimed is device (14,15,16) for blowing the gas and a system (7,18,19,20,21,22,22',23,23',24,24') for modulating the quantity of gas injected and/or the nature of the gas or the composition of the gas mixture. The gas mixture used may be a mixture of nitrogen and argon.

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IPC 8 full level

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Cited by

WO2022148636A1; CN1092550C; EP1455973A4; EP4023358A1; US6575225B1; WO9948635A1; EP2581150A1; US9457397B2; EP2633929A1; WO2013127982A1; US9764379B2

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