

Title (en)

METHOD FOR CASTING METAL STRIP WITH CROWN CONTROL

Title (de)

GLEISSVERFAHREN FÜR BLEICHSTREIFEN MIT BALLIGKEITSSTEUERUNG

Title (fr)

PROCÉDÉ DE COULÉE DE BANDE DE MÉTAL À RÉGLAGE DE BOMBAGE

Publication

EP 3377238 A4 20200101 (EN)

Application

EP 15908989 A 20151203

Priority

- US 201514946872 A 20151120
- US 2015063676 W 20151203

Abstract (en)

[origin: WO2017087006A1] A method and apparatus of continuously casting thin strip by controlling roll crown is provided. The apparatus for continuously casting thin strip by controlling roll crown includes at least two expansion rings positioned within and adjacent a cylindrical tube and spaced within 450 mm of edge portions of the cast strip formed on opposite end portions of casting rolls during a casting campaign. Alternatively or in addition, the apparatus includes at least one expansion ring within the cylindrical tube at a position corresponding to center portions of the cast strip formed on the casting rolls during a casting campaign. Each expansion ring has at least one heating element and an insulating coating thereon and is adapted to increase in radial dimension causing the cylindrical tube to expand changing roll crown of the casting surfaces of the casting rolls and thickness profile of the cast strip during casting.

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

- [Y] US 5560421 A 19961001 - TANAKA KISABURO [JP], et al
- [Y] US 5996680 A 19991207 - FUKASE HISAHIKO [AU], et al
- [Y] US 2004256077 A1 20041223 - MARTI HEINRICH [CH], et al
- [A] US 2010032126 A1 20100211 - SCHLICHTING MARK [US], et al
- See also references of WO 2017087006A1

Designated contracting state (EPC)

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