

Title (en)

CASTING ROLL AND METHOD FOR CASTING METAL STRIP WITH CROWN CONTROL

Title (de)

GIESSWALZE UND VERFAHREN ZUM GIESSEN VON BLEICHSTREIFEN MIT BALLIGKEITSSTEUERUNG

Title (fr)

ROULEAU DE COULÉE ET PROCÉDÉ DE COULÉE DE BANDE DE MÉTAL AVEC COMMANDE DE COURONNE

Publication

EP 3556488 A1 20191023 (EN)

Application

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Priority

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Abstract (en)

The invention relates to a casting roll (12), for the casting of metal strip (21) by continuous casting in a twin roll caster,- having a casting surface (12A) formed by a substantially cylindrical tube (120),- having at least one substantially axially symmetric expansion element, e.g. an expansion ring (101-103), arranged within the cylindrical tube (120), and the expansion element adapted to increase in radial dimension causing the cylindrical tube to expand changing roll crown of the casting surfaces (12A) of the casting rolls and thickness profile of the cast strip during casting,whereas at least one expansion element is movable in axial direction of the casting roll (12). The method of continuously casting thin strip by controlling roll crown is characterized in that at least one expansion element is moved in axial direction of the casting roll (12) to an axial position where the strip thickness of the cast metal strip (21) shall be reduced.

IPC 8 full level

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Citation (applicant)

- WO 2016083506 A1 20160602 - SIEMENS VAI METALS TECH GMBH [AT]
- US 2017341134 A1 20171130 - HOHENBICHLER GERALD [AT]

Citation (search report)

- [Y] WO 2017087006 A1 20170526 - NUCOR CORP [US]
- [Y] US 2004256077 A1 20041223 - MARTI HEINRICH [CH], et al
- [AD] WO 2016083506 A1 20160602 - SIEMENS VAI METALS TECH GMBH [AT]
- [A] WO 9503144 A1 19950202 - HUNTER ENG CO [US]
- [A] US 2009314459 A1 20091224 - BLEJDE WALTER N [US], et al

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