

Title (en)

METHOD AND DEVICE FOR DRAINING LIQUID COATING METAL AT THE OUTPUT OF A TEMPERING METAL COATING TANK

Title (de)

VERFAHREN UND VORRICHTUNG ZUM ABLASSEN VON FLÜSSIGEM BESCHICHTUNGSMETALL AM AUSGANG EINES TEMPERMETALLBESCHICHTUNGSTANKS

Title (fr)

MÉTHODE ET DISPOSITIF D'ESSORAGE DE MÉTAL LIQUIDE DE REVÊTEMENT EN SORTIE D'UN BAC DE REVÊTEMENT MÉTALLIQUE AU TREMPÉ

Publication

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Application

**EP 08875613 A 20080923**

Priority

FR 2008001322 W 20080923

Abstract (en)

[origin: WO2010034892A1] The present invention relates to a method and to a device for draining liquid coating metal, at the outlet of a tempering metal coating tank, from the two sides of a longitudinally continuously running steel strip. The method of the invention particularly comprises transferring the strip coated with liquid coating metal, as it runs at the tank outlet, from a region not subjected to a magnetic field to another region subjected to a static magnetic field generated between the poles of magnetic members arranged opposite each other on either side of the strip and having field lines, or at least a main shell of said field lines, intersecting with said strip over at least one minimum longitudinal extent so that the liquid coating metal is correlative subjected to a magnetic field variation generating on said liquid metal a force opposite to the running direction thereof with the strip. Due to the low field variation, this magnetic braking effect generates little Foucault current in the strip. The power radiated in order to reach an efficient draining effect of the liquid film is thus very low and the heating of the strip is very advantageously negligible, amongst other advantages.

IPC 8 full level

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CPC (source: EP KR US)

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