

Title (en)

DEVICE FOR HYDRODYNAMIC STABILISATION OF A CONTINUOUSLY TRAVELLING METAL STRIP

Title (de)

VORRICHTUNG ZUR HYDRODYNAMISCHEN STABILISIERUNG EINES KONTINUIERLICH LAUFENDEN METALLBANDES

Title (fr)

DISPOSITIF POUR LA STABILISATION HYDRODYNAMIQUE D'UNE BANDE MÉTALLIQUE EN DÉFILEMENT CONTINU

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Appication

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Priority

- BE 201605073 A 20160129
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Abstract (en)

[origin: WO2017129391A1] The present invention relates to a facility for coating a continuously travelling metal strip (1) by dipping, including a liquid coating metal bath (2) which the strip exits as a vertical strand, a bottom roller (4), a decambering roller (5a) and, where necessary, a stabilising roller (5b), which rollers are submerged in the liquid metal bath (2), drying blades (3) that are placed at the exit of the bath (2) and inject a compressed gas in order to remove the excess coating that has not yet solidified, creating a drying wave (11) having a downward return flow (14) of liquid metal, and a dissipating device for hydrodynamic stabilisation placed between the drying blades (3) and the last submerged roller (5a or 5b), including a plurality of hydrodynamic pads (6) intended for applying a load to at least one side of the metal strip (1) and mounted so as to pivot about hinges (7) for self-aligning said pads, also extending transversely across the width of the strip (1), and positioned such that, when in use, the liquid metal return flow (14) of the drying wave (11) flows at least in part over the back of the pads (6).

IPC 8 full level

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Citation (search report)

See references of WO 2017129391A1

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