

Title (en)
DEVICE FOR HOT-DIP COATING A METAL STRIP

Title (de)
VORRICHTUNG ZUM SCHMELZTAUCHBESCHICHTEN VON METALLBAND

Title (fr)
DISPOSITIF DE REVÊTEMENT D'UNE BANDE MÉTALLIQUE PAR IMMERSION À CHAUD

Publication
EP 2954085 A1 20151216 (DE)

Application
EP 14705302 A 20140204

Priority
• DE 102013101131 A 20130205
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Abstract (en)
[origin: WO2014122128A1] The invention relates to a device for hot-dip coating a metal strip, comprising a molten bath vessel (4), a pipe (6) which opens into the molten bath vessel for introducing a metal strip that has been heated in a continuous furnace (1) into said molten bath and a deflection roller (7) arranged in the molten bath for deflecting the metal strip (1) entering the molten bath in a direction leading out of said molten bath. According to the invention, the pipe (6) is provided with a chute-type pipe extension piece (6.1) for increasing the submersion depth of the pipe and the inner width of the pipe extension piece (6.1) tapers towards the outlet opening of the piece (6.15), at least over part of the length of said piece. This increases or maximises the turbulent flow in the melt on or in the vicinity of the metal strip (1), thus achieving the improved homogenisation of the melt in the region of the strip and thereby allowing the prevention of slag-related surface defects on the surface of the coated metal strip (1).

IPC 8 full level
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Citation (search report)
See references of WO 2014122128A1

Cited by
EP3872201A1; DE102020105375A1

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Designated extension state (EPC)
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