

Title (en)

DEVICE AND METHOD FOR IMPROVED SUCTION OF METAL VAPOR IN CONTINUOUS HOT-DIP METAL COATING

Title (de)

VORRICHTUNG UND VERFAHREN ZUR VERBESSERTEN METALLDAMPFABSAUGUNG IN EINEM KONTINUIERLICHEN SCHMELZTAUCHVERFAHREN

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR UNE ASPIRATION AMÉLIORÉE DE VAPEURS MÉTALLIQUES DANS UN PROCÉDÉ D'IMMERSION À CHAUD CONTINU

Publication

EP 3303650 A1 20180411 (DE)

Application

EP 16727969 A 20160520

Priority

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Abstract (en)

[origin: WO2016188922A1] The invention relates, among other things, to a device for avoiding surface flaws, caused by metal dust, on a metal strip to be coated in a continuous hot-dip coating process, wherein at least some segments of the metal strip to be coated can be conveyed through the device in an axial direction, comprising a blowing/sucking unit, wherein the blowing/sucking unit has a plurality of blow-in openings for applying protective gas to the metal strip, wherein a plurality of blow-in openings are or can be arranged on a first side of the metal strip and a plurality of blow-in openings are or can be arranged on a second side of the metal strip, wherein the blowing/sucking unit has a plurality of suction openings for extracting protective gas laden with metal vapor and/or metal dust, wherein a plurality of suction openings are or can be arranged on the first side of the metal strip and a plurality of suction openings are or can be arranged on the second side of the metal strip. The aim of improving the extraction of metal vapor by means of the protective gas and of reducing the dispersion of metal vapor is solved in that the blowing/sucking unit has a blow-in region, in which the blow-in openings are arranged, and a suction region, which is arranged after the blow-in region in the axial direction and in which the suction openings are arranged.

IPC 8 full level

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Citation (search report)

See references of WO 2016188922A1

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