

Title (en)

DEVICE FOR STRAIGHTENING A FLOW FOR COOLING A ROLL OR A METAL STRIP

Title (de)

VORRICHTUNG ZUM RICHTEN EINER STRÖMUNG ZUR KÜHLUNG EINER WALZE ODER EINES METALLBANDES

Title (fr)

DISPOSITIF POUR DIRIGER UN ÉCOULEMENT POUR LE REFROIDISSEMENT D'UN CYLINDRE OU D'UNE BANDE DE MÉTAL

Publication

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Application

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Abstract (en)

[origin: WO2013113775A1] The invention is directed to a device (1) for straightening a stream of cooling medium for cooling a roll or a metal strip. This device (1) comprises a hollow body (3), extending over at least part of the width of the roll or the metal strip, and a tube (5), arranged in the hollow body (3) and extending in the direction of the width (B) of the roll or the metal strip, wherein the hollow body (3) is divided in the direction of the width (B) of the roll or the metal strip into a number of chambers and the tube (5) comprises openings (9) for introducing cooling medium into the chambers of the hollow body (3) and the chambers respectively comprise an opening for the flowing out of cooling medium from the hollow body (3). Furthermore, according to the invention the chambers respectively comprise a channel (12), formed between the inner wall of the hollow body (3) and the tube (5), for conducting cooling medium from the openings (9) of the tube (5) to the opening for the flowing out of cooling medium from the hollow body (3), wherein the flow cross section of the channel (12) narrows at least at its downstream end.

IPC 8 full level

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