

Title (en)
COOLING DEVICE AND METHOD FOR OPERATING THE SAME

Title (de)
KÜHLEINRICHTUNG UND VERFAHREN ZU DEREN BETRIEB

Title (fr)
DISPOSITIF DE REFROIDISSEMENT ET PROCÉDÉ PERMETTANT DE FAIRE FONCTIONNER LEDIT DISPOSITIF

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Application
EP 19716139 A 20190404

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Abstract (en)
[origin: WO2019197254A1] The invention relates a cooling device (100) for cooling a metal product and to a method for operating same. The cooling device (100) has at least one cooling bar (110) having a plurality N of spraying regions I, II, III adjacent to each other in pairs, which in turn each have at least one spraying nozzle (130) for spraying a coolant onto the metal product. Valves are provided for individually setting the pressure or the volumetric flow rate of the coolant (300) in each of the spraying regions. The valves (120) and a pump for the coolant are individually controlled with the aid of a control device (150). In order to improve the application of coolant to the metal product, the invention provides that at least one separating wall is provided in the at least one cooling bar of the cooling device according to the invention in order to divide the interior of the cooling bar into at least two chambers, each of the spraying regions being associated with a different one of said chambers. The separating wall is shaped at least approximately in accordance with the curve of the temperature distribution in a predefined width segment of the metal product before the metal product enters the cooling device, and the separating wall is arranged in the cooling bar over said width segment.

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