Title (en)

METHOD FOR CONTROLLING A COOLING DEVICE IN A ROLLING TRAIN

Title (de)

VERFAHREN ZUR STEUERUNG EINER KÜHLEINRICHTUNG IN EINER WALZSTRASSE

Title (fr)

PROCÉDÉ POUR COMMANDER UN DISPOSITIF DE REFROIDISSEMENT DANS UN TRAIN DE LAMINAGE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2021001239A1] Method and control device for controlling a cooling device (10), which is designed for controlling the temperature of a rolled product, preferably metal strip (B), which runs through the cooling device (10) along a conveying direction (F), wherein the cooling device (10) is preferably arranged upstream of a rolling train and the method comprises: Determining a total enthalpy of the system formed by the rolled product; determining a measure of the formation of scale, which preferably comprises a scale factor that depends on the chemical composition and the surface temperature of the rolled product; calculating a temperature distribution and/or average temperature in the rolled product on the basis of a temperature calculation model that allows for the determined total enthalpy and the measure of the formation of scale; and setting a cooling output of the cooling device (10) while taking into account the calculated temperature distribution and/or average temperature in the rolled product.

IPC 8 full level

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CPC (source: CN EP US)

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