Title (en)

METHOD FOR REGULATING THE TEMPERATURE OF A METAL STRIP, ESPECIALLY IN A COOLING PATH

Title (de)

VERFAHREN ZUR REGELUNG DER TEMPERATUR EINES METALLBANDES, INSBESONDERE IN EINER KÜHLSTRECKE

Title (fr)

PROCEDE DE REGULATION DE LA TEMPERATURE D'UNE BANDE METALLIQUE, EN PARTICULIER DANS UN PARCOURS DE REFROIDISSEMENT

Publication

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Application

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Priority

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- DE 10321792 A 20030514

Abstract (en)

[origin: WO2004076085A2] The invention relates to a method for controlling or regulating the temperature of a metal strip in a cooling path (4) of a hot rolling system. A desired temperature gradient is compared to an actual temperature gradient in order to determine adjusting signals for the cooling path (4). At least one target function is formed for actuators of the cooling strip (4), taking into account auxiliary conditions, and said target function is solved as a quadratic optimisation problem for the purpose of model predictive regulation. The invention also relates to an overlapping regulation for the finishing train and the cooling path of the hot rolling system.

IPC 8 full level

B21B 37/74 (2006.01)

CPC (source: EP US)

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Cited by

EP2301685A1; CN105689407A; CN102497941A; US10413950B2; WO2011036093A3; WO2011036093A2; EP3099430B1

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