

Title (en)

COOLING SECTION WITH COOLANT FLOWS WHICH CAN BE ADJUSTED USING PUMPS

Title (de)

KÜHLSTRECKE MIT EINSTELLUNG DER KÜHLMITTELSTRÖME DURCH PUMPEN

Title (fr)

ZONE DE REFROIDISSEMENT À AJUSTEMENT DES FLUX DE FLUIDE DE REFROIDISSEMENT PAR DES POMPES

Publication

**EP 3826780 A1 20210602 (DE)**

Application

**EP 19740415 A 20190723**

Priority

- EP 18185526 A 20180725
- EP 2019069763 W 20190723

Abstract (en)

[origin: WO2020020868A1] The invention relates to a cooling section (2) arranged within a rolling train or upstream or downstream of the rolling train. A hot-rolled product (1) made of metal is cooled by means of the cooling section (2). Application devices (6) of the cooling section (2) are supplied with a respective actual current (F) of a water-based liquid coolant (7) via a respective supply line (8) and a respective pump (10). The respective actual current (F) of the coolant (7) is applied to the hot-rolled product (1) by means of the respective application device (6). The hot-rolled product (1) is transported within the cooling section (2) in a horizontal transport direction (x) during the application of the coolant (7). A controller (11) of the cooling section (2) dynamically ascertains a respective target actuation state (S\*) for each pump (10) on the basis of a respective target current (F\*) of the coolant (7) to be applied onto the hot-rolled product (1) by means of the respective application device (6) and controls the respective pump (10) in a corresponding manner such that the respective actual current (F) delivered by each pump (10) approximates the respective target current (F\*) as much as possible at any time.

IPC 8 full level

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Citation (search report)

See references of WO 2020020868A1

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