

Title (en)
METHOD FOR THE OPEN-LOOP OR CLOSED-LOOP CONTROL OF THE TEMPERATURE OF A STEEL STRIP DURING HOT WORKING IN A HOT STRIP MILL

Title (de)
VERFAHREN ZUM STEUERN ODER REGELN DER TEMPERATUR EINES STAHLBANDES BEI DER WARMUMFORMUNG IN EINER WARMBANDSTRASSE

Title (fr)
PROCÉDÉ DE RÉGULATION EN BOUCLE OUVERTE OU EN BOUCLE FERMÉE DE LA TEMPÉRATURE D'UNE BANDE D'ACIER AU COURS D'UN TRAVAIL À CHAUD DANS UN LAMINOIR À BANDES À CHAUD

Publication
EP 4146414 B1 20240313 (DE)

Application
EP 21716283 A 20210325

Priority
• DE 102020205655 A 20200505
• EP 2021057720 W 20210325

Abstract (en)
[origin: WO2021223937A1] the invention relates to a method for the open-loop or closed-loop control of the temperature of a steel strip during hot working in a hot strip mill. A higher-level open-loop or closed-loop control involves a process model which predicts the temperature development of the hot strip. The target values of the individual units are adjusted on the basis of this predicted temperature development.

IPC 8 full level
B21B 37/74 (2006.01); **C21D 8/02** (2006.01)

CPC (source: EP US)
B21B 37/74 (2013.01 - EP US); **C21D 8/0226** (2013.01 - EP); **C21D 8/0426** (2013.01 - EP US); **C21D 9/52** (2013.01 - US); **B21B 2261/20** (2013.01 - EP US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
DE 102020205655 A1 20211111; CN 115551652 A 20221230; EP 4146414 A1 20230315; EP 4146414 B1 20240313; JP 2023529283 A 20230710; US 2023203612 A1 20230629; WO 2021223937 A1 20211111

DOCDB simple family (application)
DE 102020205655 A 20200505; CN 202180033364 A 20210325; EP 2021057720 W 20210325; EP 21716283 A 20210325; JP 2022566410 A 20210325; US 202117923393 A 20210325