

Title (en)

METHOD AND COMPUTER PROGRAM PRODUCT FOR CALCULATING A PASS SCHEDULE FOR A STABLE ROLLING PROCESS

Title (de)

VERFAHREN UND COMPUTERPROGRAMMPRODUKT ZUM BERECHNEN EINES STICHPLANS FÜR EINEN STABILEN WALZPROZESS

Title (fr)

PROCÉDÉ ET PRODUIT PROGRAMME D'ORDINATEUR POUR CALCULER UN PROGRAMME DE PASSES AFIN D'OBTENIR UN PROCÉDÉ DE LAMINAGE STABLE

Publication

EP 4178735 C0 20240214 (DE)

Application

EP 21739384 A 20210706

Priority

- DE 102020208633 A 20200709
- EP 2021068604 W 20210706

Abstract (en)

[origin: WO2022008486A1] The invention relates to a method and to a corresponding computer program product for calculating a pass schedule for a stable rolling process when rolling metal band in a rolling mill. The offset here is varied until the calculated target horizontal force satisfies a predefined limit criterion. The satisfaction of the limit criterion means that the set of rolls and the rolling process are stable. For cases in which a sole iteration of the offset of the working roll does not result in the limit criterion being satisfied, the present invention provides that the draws on the material to be rolled are then changed on the feed side and/or on the outlet side of the rolling stand with constant offset until the calculated target horizontal force satisfies the limit criterion.

IPC 8 full level

B21B 37/58 (2006.01)

CPC (source: EP US)

B21B 37/16 (2013.01 - US); **B21B 37/46** (2013.01 - US); **B21B 37/58** (2013.01 - EP US); **B21B 37/74** (2013.01 - US); **B21B 2031/206** (2013.01 - EP)

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

Participating member state (EPC – UP)

AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT SE SI

DOCDB simple family (publication)

WO 2022008486 A1 20220113; CN 115803127 A 20230314; EP 4178735 A1 20230517; EP 4178735 B1 20240214; EP 4178735 C0 20240214; JP 2023533257 A 20230802; JP 7506820 B2 20240626; US 2023249234 A1 20230810

DOCDB simple family (application)

EP 2021068604 W 20210706; CN 202180048707 A 20210706; EP 21739384 A 20210706; JP 2023500013 A 20210706; US 202118015099 A 20210706