

Title (en)

LOCAL VARYING OF THE ROLL GAP IN THE AREA OF THE EDGES OF A ROLLED STRIP

Title (de)

VERÄNDERN DER EFFEKTIVEN KONTUR EINER LAUFFLÄCHE EINER ARBEITSWALZE WÄHREND DES WARMWALZENS EINES WALZGUTS IN EINEM WALZGERÜST ZU EINEM GEWALZTEN BAND

Title (fr)

CHANGEMENT LOCAL DE LA FENTE DE LAMINAGE DANS LA ZONE MARGINALE D'UNE BANDE LAMINÉE

Publication

EP 3917694 B1 20230809 (DE)

Application

EP 20700385 A 20200113

Priority

- EP 19153870 A 20190128
- EP 19219974 A 20191230
- EP 2020050684 W 20200113

Abstract (en)

[origin: WO2020156787A1] The present invention relates to a method and a device for changing the effective contour of a running surface (8) of a working roll (3, 4) during the hot rolling of rolling stock in a roll stand (2) to form a rolled strip (1). The problem addressed by the invention is that of allowing the contour of the running surface (8) to be changed during the hot rolling. Said problem is solved according to the invention by axially moving the working rolls (3, 4) in opposite directions by a movement distance (s), s being greater or less than (formula (I)), Δr indicating the wear of the running surface (8) in the radial direction (R) and α indicating the inclination angle of the conical portion (7) of the working roll (3, 4) in question.

IPC 8 full level

B21B 13/14 (2006.01)

CPC (source: EP US)

B21B 1/22 (2013.01 - US); **B21B 13/142** (2013.01 - EP US); **B21B 27/021** (2013.01 - US); **B21B 2001/225** (2013.01 - EP US); **B21B 2027/022** (2013.01 - US); **B21B 2267/18** (2013.01 - US); **B21B 2267/20** (2013.01 - EP); **B21B 2267/24** (2013.01 - EP US); **B21B 2269/14** (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

DOCDB simple family (publication)

WO 2020156787 A1 20200806; CN 113316491 A 20210827; CN 113316491 B 20230811; EP 3917694 A1 20211208; EP 3917694 B1 20230809; EP 3917694 C0 20230809; ES 2954881 T3 20231127; US 11919059 B2 20240305; US 2022126337 A1 20220428; US 2024173759 A1 20240530

DOCDB simple family (application)

EP 2020050684 W 20200113; CN 202080011252 A 20200113; EP 20700385 A 20200113; ES 20700385 T 20200113; US 202017310246 A 20200113; US 202418419008 A 20240122