

Title (en)
METHOD FOR GRINDING THE CONTOUR OF THE BODY OF A ROLL

Title (de)
VERFAHREN ZUM SCHLEIFEN DER KONTUR DES BALLENS EINER WALZE

Title (fr)
PROCÉDÉ POUR RECTIFIER LE PROFIL DE LA TABLE D'UN CYLINDRE

Publication
EP 3544767 A1 20191002 (DE)

Application
EP 17787152 A 20171013

Priority
• DE 102016222987 A 20161122
• EP 2017076223 W 20171013

Abstract (en)
[origin: WO2018095655A1] The invention relates to a method for grinding the contour of the body (110) of a roll (100), in particular a roll having a roll contour having a steep curve course in a roll stand for rolling metal strip, having the following steps: specifying a target contour for the body (110) of the roll and grinding the contour of the body (110) by guiding a grindstone (200) along a grindstone path $D(x)$. In order to reduce grinding errors and grinding times, the method also provides the following steps according to the invention: determining a grinding error e or grinding error function $E(x)$ at least over individual length segments of the body (110) in the axial direction x ; calculating a correction curve $C(x)$ at least over the individual length segments of the body (110) in the axial direction x , wherein the correction curve $C(x)$ avoids the determined grinding error e ; and calculating the grindstone path $D(x)$ for guiding the grindstone (200) by superposing the target contour $A(x)+B(x)$ for the body (110) with the correction curve $C(x)$.

IPC 8 full level
B24B 5/16 (2006.01); **B21B 27/02** (2006.01); **B21B 28/02** (2006.01)

CPC (source: EP)
B21B 27/021 (2013.01); **B21B 28/02** (2013.01); **B24B 5/167** (2013.01); **B24B 47/25** (2013.01); **B24B 49/02** (2013.01); **B21B 13/142** (2013.01); **B21B 28/04** (2013.01); **B21B 2027/022** (2013.01); **B21B 2267/18** (2013.01)

Citation (search report)
See references of WO 2018095655A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 102016222987 A1 20180524; CN 109996650 A 20190709; CN 109996650 B 20210810; EP 3544767 A1 20191002; EP 3544767 B1 20200520; JP 2019536645 A 20191219; JP 6814291 B2 20210113; WO 2018095655 A1 20180531

DOCDB simple family (application)
DE 102016222987 A 20161122; CN 201780072360 A 20171013; EP 17787152 A 20171013; EP 2017076223 W 20171013; JP 2019527388 A 20171013