

Title (en)

METHOD FOR DETERMINING WEAR ON A ROLL FOR ROLLING METAL STOCK

Title (de)

ERMITTLUNGSVERFAHREN FÜR EINEN VERSCHLEISS EINER WALZE ZUM WALZEN VON WALZGUT

Title (fr)

PROCÉDÉ DE DÉTERMINATION DE L'USURE D'UN CYLINDRE POUR LE LAMINAGE DE PRODUITS À LAMINER

Publication

EP 2595768 B1 20150401 (DE)

Application

EP 11723400 A 20110519

Priority

- EP 10174341 A 20100827
- EP 2011058155 W 20110519
- EP 11723400 A 20110519

Abstract (en)

[origin: EP2422894A1] A volume temperature distribution of roller (3) is determined based on heat flux distribution of a surface of roller by temperature model unit. The temperature distribution volume is spatially resolved in axial and radial directions of roller. The heat flux distribution is spatially resolved in axial and tangential directions of roller. The upper surface temperature is determined based on updated volume distribution of temperature and/or heat flux distribution of roller. The wear of roller is determined by a wear model unit (11) using upper surface temperature of roller. Independent claims are included for the following: (1) computer program for determining wear of roller for rolled stock; and (2) rolling mill.

IPC 8 full level

B21B 38/00 (2006.01)

CPC (source: EP)

B21B 38/00 (2013.01); **B21B 2267/24** (2013.01)

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)

EP 2422894 A1 20120229; CN 103097046 A 20130508; CN 103097046 B 20160504; EP 2595768 A1 20130529; EP 2595768 B1 20150401; WO 2012025266 A1 20120301

DOCDB simple family (application)

EP 10174341 A 20100827; CN 201180041458 A 20110519; EP 11723400 A 20110519; EP 2011058155 W 20110519