

Title (en)

Method and apparatus for calculating the roll gap contour

Title (de)

Verfahren und Vorrichtung zur Berechnung der Walzspaltkontur

Title (fr)

Procédé et dispositif pour calculer le profil de l'emprise entre les cylindres

Publication

EP 1240955 B1 20040714 (DE)

Application

EP 02001665 A 20020124

Priority

AT 4002001 A 20010314

Abstract (en)

[origin: EP1240955A1] To compute the roller gap contour between at least two rollers (A), at a rolling stand of the rolling mill, the roller gap contour is given on-line from the results of a combination derived from a prior computation and an on-line computation. The prior computation includes a distortion vector field e.g. the radial distortion field of a roller under a given loading. The result is shown as a Fourier series, and the prior work uses a finite element computation

IPC 1-7

B21B 37/42

IPC 8 full level

B21B 37/42 (2006.01); **B21B 13/02** (2006.01); **B21B 37/28** (2006.01); **B21B 38/10** (2006.01)

CPC (source: EP)

B21B 37/42 (2013.01); **B21B 37/28** (2013.01); **B21B 38/105** (2013.01); **B21B 2013/025** (2013.01); **B21B 2261/04** (2013.01); **B21B 2265/12** (2013.01); **B21B 2267/24** (2013.01)

Cited by

CN111295249A; DE102009043401A1; CN110064670A; CN112559950A; US11534827B2; EP1600221A1; EP3536411A1; CN111801173A; WO2019170381A1; WO2019101628A1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 1240955 A1 20020918; EP 1240955 B1 20040714; AT 410904 B 20030825; AT A4002001 A 20030115; DE 50200608 D1 20040819

DOCDB simple family (application)

EP 02001665 A 20020124; AT 4002001 A 20010314; DE 50200608 T 20020124