

Title (en)

Control computer and computer-aided determination method for a profile and flatness control for a rolling mill

Title (de)

Steuerrechner und rechnergestütztes Ermittlungsverfahren für eine Profil- und Planheitssteuerung für eine Walzstrasse

Title (fr)

Ordinateur de commande et procédé de détermination assistée par ordinateur pour le control de la planéité et du profile pour une cage de laminoir

Publication

**EP 1481742 B1 20070718 (DE)**

Application

**EP 04009244 A 20040419**

Priority

DE 10324679 A 20030530

Abstract (en)

[origin: EP1481742A2] Computer-supported determination process comprises feeding starting parameters describing the metal strip before and after passing through the rolling mill to a material flow model, determining the material flow model in the strip width direction and feeding to a roller deforming model, feeding an actual value of the strip center position to the roller deforming module, determining the roller deforming model using the roller force progression and feeding to a theoretical determining unit, and determining the theoretical values for the profile and planarity adjusting parts. An independent claim is also included for a control computer for determining the theoretical values for the profile and planarity adjusting parts.

IPC 8 full level

**B21B 37/28** (2006.01)

CPC (source: EP)

**B21B 37/28** (2013.01); **B21B 2263/02** (2013.01); **B21B 2263/04** (2013.01); **B21B 2267/12** (2013.01); **B21B 2267/24** (2013.01); **B21B 2269/04** (2013.01); **B21B 2273/04** (2013.01)

Cited by

US8365562B2; CN107530748A; EP3479916A1; EP4353375A1; US8205474B2; US7849722B2; US11938528B2; WO2020016387A1; US10625317B2; US11534808B2; WO2016146621A1; WO2019086172A1; WO2024078918A1; EP3706929B1

Designated contracting state (EPC)

AT DE FR IT

DOCDB simple family (publication)

**EP 1481742 A2 20041201; EP 1481742 A3 20060412; EP 1481742 B1 20070718; AT E367217 T1 20070815; DE 502004004331 D1 20070830**

DOCDB simple family (application)

**EP 04009244 A 20040419; AT 04009244 T 20040419; DE 502004004331 T 20040419**