Title (en)

CONTROL SYSTEM OF TANDEM ROLLING MILL AND CONTROL METHOD OF TANDEM ROLLING MILL

Title (de)

STEUERUNGSSYSTEM FÜR TANDEMWALZWERK UND STEUERUNGSVERFAHREN FÜR TANDEMWALZWERK

Title (fr)

SYSTÈME DE COMMANDE DE LAMINOIR TANDEM ET PROCÉDÉ DE COMMANDE D'UN LAMINOIR TANDEM

Publication

EP 3031541 B1 20180228 (EN)

Application

EP 15196195 A 20151125

Priority

JP 2014246414 A 20141205

Abstract (en)

[origin: EP3031541A1] In addition to a control reference setup means calculating control reference for a roll position, an inter-stand strip thickness calculation means 111 predicting a strip thickness between stands 161, a roll position deviation calculation means predicting a roll position with using rolling results captured from a controlled object and calculating a deviation between the predicted roll position and an actual roll position, a strip thickness deviation calculation means 113 calculating a deviation between a target strip thickness, at a finish mill delivery side that is fetched from the control reference setup means, and an actual strip thickness obtained as a rolling result, and a roll position compensation amount calculation means 115 calculating a roll position compensation amount from a roll position deviation and a strip thickness deviation are provided, and the control reference setup means is configured to calculate the roll position using the calculated roll position compensation amount.

IPC 8 full level

B21B 37/58 (2006.01); **B21B 38/04** (2006.01)

CPC (source: CN EP)

B21B 37/16 (2013.01 - CN); **B21B 37/165** (2013.01 - CN); **B21B 37/58** (2013.01 - EP); **B21B 38/04** (2013.01 - EP); B21B 37/165 (2013.01 - EP); B21B 2261/04 (2013.01 - CN)

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 3031541 A1 20160615; **EP 3031541 B1 20180228**; CN 105665449 A 20160615; CN 105665449 B 20180109; JP 2016107297 A 20160620; JP 6438753 B2 20181219

DOCDB simple family (application)

EP 15196195 A 20151125; CN 201510849972 A 20151127; JP 2014246414 A 20141205