Title (en)

SCREW DOWN POSITION SETTING METHOD FOR ROLLING PLATE

Title (de)

NIEDERDRÜCKPOSITIONSEINSTELLVERFAHREN ZUM WALZEN EINER PLATTE

Title (fr)

PROCEDE DE REGLAGE DE POSITION D'ACTION POUR LAMINAGE DE TOLE

Publication

EP 1344582 B1 20080910 (EN)

Application

EP 01983817 A 20011116

Priority

- JP 0110064 W 20011116
- JP 2000350828 A 20001117
- JP 2001321819 A 20011019

Abstract (en)

[origin: EP1344582A1] A method of setting a screw-down position comprising accurately considering the change in the mill stretch after threading of the leading end of a rolled sheet and the change in plate thickness and thickness wedge due to the same based on the predicted values of the thrust forces arising at the rolls during the flat rolling and reflecting the same to the screw-down setting positions so as to improve the dimensional accuracy of the product and eliminate passage trouble due to snake, camber, etc. is provided. The thrust forces between the rolled sheet and work rolls arising during rolling are predicted before the start of rolling and the screw-down positions at the two points of the time when the rolling starts and the time when the thrust counterforces arising at the support points of the thrust forces stabilize are set individually based on the predicted value of the thrust forces. At the time of executing rolling, the screw-down position is set to the screw-down position before the start of rolling or at the time when the rolling starts, the stability of the thrust counterforces is monitored after the start of rolling, and the screw-down position is reset to the screw-down position at the time the thrust counterforces stabilize at the time when it is judged that the thrust counterforces stabilize. <IMAGE>

IPC 8 full level

B21B 13/14 (2006.01); **B21B 37/00** (2006.01); **B21B 37/18** (2006.01); **B21B 37/68** (2006.01); B21B 37/58 (2006.01)

CPC (source: EP KR)

B21B 37/00 (2013.01 - KR); **B21B 37/68** (2013.01 - EP); B21B 37/58 (2013.01 - EP); B21B 2038/002 (2013.01 - EP); B21B 2269/14 (2013.01 - EP)

Cited by

CN102397885A; EP3957410A4; US10456818B2; EP3838433A4

Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

EP 1344582 A1 20030917; **EP 1344582 A4 20060412**; **EP 1344582 B1 20080910**; AU 1522402 A 20020527; CN 1229191 C 20051130; CN 1494465 A 20040505; DE 60135777 D1 20081023; JP 2002210512 A 20020730; JP 3863751 B2 20061227; KR 100534499 B1 20051208; KR 20040014413 A 20040214; WO 0240188 A1 20020523

DOCDB simple family (application)

EP 01983817 A 20011116; AU 1522402 A 20011116; CN 01819130 A 20011116; DE 60135777 T 20011116; JP 0110064 W 20011116; JP 2001321819 A 20011019; KR 20037006662 A 20030516