

Title (en)
CONTROL METHOD AND CONTROL DEVICE FOR A ROLL STAND

Title (de)
REGELVERFAHREN UND REGLER FÜR EIN WALZGERÜST

Title (fr)
PROCEDE DE REGLAGE ET MECANISME DE REGLAGE POUR UNE CAGE DE LAMINOIR

Publication
EP 1711283 B1 20090916 (DE)

Application
EP 05707062 A 20050128

Priority
• EP 2005000845 W 20050128
• DE 102004005011 A 20040130

Abstract (en)
[origin: WO2005072886A1] According to the invention, the thickness, traction forces and flatness is controlled by means of a single control device as part of an integrated, model-predictive thickness, traction and flatness control operation. The integrated control device takes into account the influence the adjustment of the control variables has on the thickness, the traction force and the flatness of the rolled strip and optimises the modifications of the control variable in such a way that a selected quality of the thickness and the flatness control is obtained. The quality of the thickness and the quality of the flatness control, which are weighted differently, can effect the quality function of the control device. The use of the integrated control device improves the performance and the stability of the control device in relation to the control devices which are arranged in a separate manner from each other.

IPC 8 full level
B21B 37/00 (2006.01); **C21D 1/667** (2006.01); **B21B 37/16** (2006.01); **B21B 37/28** (2006.01); **B21B 37/48** (2006.01); **B21B 38/02** (2006.01); **B21B 38/04** (2006.01); **B21B 38/06** (2006.01)

CPC (source: EP)
B21B 37/00 (2013.01); **B21B 37/16** (2013.01); **B21B 37/28** (2013.01); **B21B 37/48** (2013.01); **B21B 38/02** (2013.01); **B21B 38/04** (2013.01); **B21B 38/06** (2013.01)

Cited by
CN107537861A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005072886 A1 20050811; AT E442918 T1 20091015; DE 102004005011 A1 20050915; DE 102004005011 B4 20081002; DE 502005008137 D1 20091029; EP 1711283 A1 20061018; EP 1711283 B1 20090916

DOCDB simple family (application)
EP 2005000845 W 20050128; AT 05707062 T 20050128; DE 102004005011 A 20040130; DE 502005008137 T 20050128; EP 05707062 A 20050128