

Title (en)

CONTROL DEVICE FOR POSITIONING THE SUPERSTRUCTURE OF A FOUR-COLUMN ROLL STAND.

Title (de)

STEUEREINRICHTUNG ZUR POSITIONIERUNG DES GERÜSTBERTEILES EINES VIER-SÄULEN-WALZGERÜSTES.

Title (fr)

DISPOSITIF DE COMMANDE POUR LE POSITIONNEMENT DE LA PARTIE SUPERIEURE D'UNE CAGE DE LAMINOIR A QUATRE COLONNES.

Publication

EP 0614404 B1 19950719 (DE)

Application

EP 92924597 A 19921119

Priority

- DE 4138639 A 19911125
- EP 9202659 W 19921119

Abstract (en)

[origin: DE4138639C1] The purpose is to provide a control device for positioning the superstructure of a four-column roll stand which emits a control signal corrected for the error in the longitudinal measurement of the lift position to raise, lower or pivot the superstructure. This purpose is achieved by the invention in that: the screw-down cylinders (1, 2, 3, 4) of at least one pair (A, B) have a measurement emitter (8) connected to the control device (10) to detect the reaction force assumed by the screw-down cylinders (1, 2, 3, 4); and the control device (10) provides a reaction force difference (dFA, dFB) from which, after multiplication by an amplification factor (f), a difference (CA, CB) in the lengths of the pair of screw-down cylinders (A, B) is calculated, from which the control device (10) generates the control signal (SA1, SA2, SB3, SB4) for at least one of these screw-down cylinders (1, 2, 3, 4).

IPC 1-7

B21B 37/58; **B21B 37/62**

IPC 8 full level

B21B 37/00 (2006.01); **B21B 37/62** (2006.01); **B21B 31/04** (2006.01); **B21B 31/32** (2006.01)

CPC (source: EP)

B21B 37/62 (2013.01); **B21B 31/04** (2013.01); **B21B 31/32** (2013.01); **B21B 2203/187** (2013.01)

Designated contracting state (EPC)

FR

DOCDB simple family (publication)

DE 4138639 C1 19930225; EP 0614404 A1 19940914; EP 0614404 B1 19950719; JP H08500293 A 19960116; WO 9310921 A1 19930610

DOCDB simple family (application)

DE 4138639 A 19911125; EP 9202659 W 19921119; EP 92924597 A 19921119; JP 50976592 A 19921119