

Title (en)

OPEN OR CLOSED-LOOP CONTROL DEVICE FOR A SUPPORTING-ROLLER FRAME OF A CONTINUOUS CASTING MACHINE

Title (de)

STEUER- ODER REGELEINRICHTUNG FÜR EIN STÜTZROLLENGERÜST EINER STRANGGIESSMASCHINE

Title (fr)

DISPOSITIF DE COMMANDE OU DE RÉGLAGE POUR UN CORSET DE ROULEAUX DE SOUTIEN D'UNE MACHINE DE COULÉE CONTINUE

Publication

EP 3083104 A1 20161026 (DE)

Application

EP 14816163 A 20141209

Priority

- AT 508352013 A 20131217
- EP 2014076946 W 20141209

Abstract (en)

[origin: WO2015091080A1] The invention relates to an open and/or closed-loop control device for a supporting-roller frame (2) in a continuous casting machine (1). The problem addressed by the invention consists in simplifying the cabling of said open and/or closed-loop control device, and in securing the transmitted signals as much as possible against influence from electromagnetic interferences. This problem is solved in that each hydraulic cylinder (7a...7d) comprises a position sensor (8a...8d) that has a bus interface (9a...9d); in that each roller segment (3, 3a...3l) is connected to a separate axis controller (10, 10a...10l) which comprises a bus interface (9e) and a network connection (12, 12a...12g), said bus interface (9e) of the axis controller (10, 10a...10l) forming a bus network (20) with said bus interfaces (9a...9d) of the position sensor (8a...8d); and in that the continuous casting machine (1) comprises a shared control system (13) with a network connection (12), said shared control system (13) and separate axis controller (10, 10a...10l) forming a star-shaped network (21).

IPC 8 full level

B22D 11/128 (2006.01); **B22D 11/20** (2006.01)

CPC (source: AT EP)

B22D 11/128 (2013.01 - AT EP); **B22D 11/16** (2013.01 - AT); **B22D 11/208** (2013.01 - EP)

Citation (search report)

See references of WO 2015091080A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2015091080 A1 20150625; AT 515260 A1 20150715; AT 515260 B1 20171215; CN 106061652 A 20161026; CN 106061652 B 20190517; EP 3083104 A1 20161026; EP 3083104 B1 20200617

DOCDB simple family (application)

EP 2014076946 W 20141209; AT 508352013 A 20131217; CN 201480069397 A 20141209; EP 14816163 A 20141209