

Title (en)

Device for controlling the motion of an oscillating chute, and shaft furnace charging installation with such a device.

Title (de)

Vorrichtung zum Steuern der Bewegung einer oszillierenden Schurre und mit dieser Vorrichtung versehene Schachtofenbeschickungsanlage.

Title (fr)

Dispositif de commande du mouvement d'une goulotte oscillante et installation de chargement d'un four à cuve équipé d'un tel dispositif.

Publication

**EP 0065084 A1 19821124 (FR)**

Application

**EP 82101942 A 19820311**

Priority

LU 83370 A 19810518

Abstract (en)

[origin: CA1173240A] The invention provides a control apparatus for the charging spout of a furnace that is to execute movements about two different axes so as to achieve a conical movement with circular precession and variable angle of inclination. The drive to the spout is by two hydraulic jacks controlled by the control device. The drive shaft to the spout interacts with two feelers which produce independent correction signals that are fed to the jacks if the required movement is not being produced. A safety feature is that the drive to the spout is via a universal joint and the mounting thereof includes elastic securing devices able to accomodate relative movements and shocks applied thereto. The invention thus provides a "miniaturised" control apparatus and a driving mechanism that is not subjected to the stresses and strains of the spout and its suspension.

Abstract (fr)

La goulotte (24) est basculée autour de deux axes perpendiculaires (X, Y) au moyen de deux vérins hydrauliques et est reliée à un organe de commande (46) qui doit rester constamment parallèle à la goulotte (24) et auquel on imprime le mouvement que doit effectuer celle-ci. Une servocommande asservie par le mouvement de l'organe de commande (46) et par le mouvement de la goulotte (24) coordonne les actions des deux vérins afin que la goulotte (24) soit toujours parallèle à l'organe de commande (46) et vice versa.

IPC 1-7

**C21B 7/20**

IPC 8 full level

**C21B 7/00** (2006.01); **C21B 7/20** (2006.01)

CPC (source: EP US)

**C21B 7/20** (2013.01 - EP US)

Citation (search report)

- [A] DE 2104116 A1 19720810
- [A] DE 2825718 A1 19790104 - WURTH PAUL SA

Cited by

DE10334417A1; LU91683B1; CN102859005A; US6948930B2; US9133529B2; WO2011131548A1

Designated contracting state (EPC)

AT BE DE FR GB IT NL SE

DOCDB simple family (publication)

**EP 0065084 A1 19821124; EP 0065084 B1 19841227**; AT E10949 T1 19850115; AU 545919 B2 19850808; AU 8164182 A 19821125; BR 8202579 A 19830419; CA 1173240 A 19840828; CS 216182 A2 19880816; CS 262408 B2 19890314; DE 3261667 D1 19850207; IN 157546 B 19860419; JP H0416523 B2 19920324; JP S57192208 A 19821126; KR 890002651 B1 19890722; LU 83370 A1 19830324; SU 1106447 A3 19840730; SU 1138038 A3 19850130; UA 7060 A1 19950331; UA 7062 A1 19950331; US 4493600 A 19850115; ZA 821571 B 19830126

DOCDB simple family (application)

**EP 82101942 A 19820311**; AT 82101942 T 19820311; AU 8164182 A 19820317; BR 8202579 A 19820505; CA 399309 A 19820324; CS 216182 A 19820329; DE 3261667 T 19820311; IN 177DE1982 A 19820303; JP 5593782 A 19820402; KR 8305335 D 19831110; LU 83370 A 19810518; SU 3413601 A 19820330; SU 3598797 A 19830530; UA 3413601 A 19820330; UA 3598797 A 19820330; US 36836582 A 19820414; ZA 821571 A 19820309