

Title (en)

Mechanism of activating the door of a locker in the cabinet for sending and receiving mail, particularly letters

Title (de)

Mechanismus zum Aktivieren der Tür eines Schließfachs im Schrank zum Senden und Empfangen von Post, insbesondere von Briefen

Title (fr)

Mécanisme d'activation de la porte d'un verrou dans l'armoire permettant d'envoyer et de recevoir du courrier, particulièrement des lettres

Publication

EP 2818082 A1 20141231 (EN)

Application

EP 13004721 A 20130930

Priority

PL 40447313 A 20130627

Abstract (en)

The mechanism contains a linear electromechanical servomotor (8) coupled with the door wing (4) by a system of leveraging agents. The door (4) is taller than the height of the locker. The system of agents is embedded into the partition of the top locker and composed of the following: the connector (9) of the servomotor (8) with a double-arm rocker (10), the active arm of which is equipped with the driving pin (11) interacting with the grooved cam (6) made in the exterior arm (5), which is stiffly fixed to the door (4). The cam (6) is shaped as a rounded broken line, with the longitudinal axis connecting its ends perpendicular to the plane of door (4). The servomotor (8) is fixed to the top partition with axis (04) perpendicular to the door casing. In the back position of the servomotor (8), the door is locked and the projection of the joints on the plane of the door casing situates the following in order: the driving pin axis (03), the hinge axis (01), the coupling socket axis (06) in the rocker (10), the servomotor axis (04), and the rocker extension axis (02). The driving pin (11) of the rocker (10) is weighed down with a tension spring (13), the other end of which is connected to point (z), which is located so that the axis of the tension spring (13) runs along the rocker extension axis (02) on the side of servomotor (8).

IPC 8 full level

A47G 29/12 (2006.01); **A47G 29/14** (2006.01)

CPC (source: EP)

A47G 29/1201 (2013.01); **A47G 29/141** (2013.01)

Citation (applicant)

- FR 2941732 A1 20100806 - DECAYEUX ETS [FR]
- DE 202004008071 U1 20040819 - RENZ ERWIN METALLWAREN [DE], et al
- FR 2845718 A1 20040416 - LAPERCHE SA [FR]

Citation (search report)

- [A] EP 1066783 A1 20010110 - HITACTION S A [FR]
- [A] FR 2770117 A1 19990430 - ELECTROBOX [FR]
- [A] US 5566991 A 19961022 - YOUNG QUENTIN [US]
- [A] DE 20302161 U1 20040617 - DEWERT ANTRIEBS SYSTEMTECH [DE]

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)

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DOCDB simple family (application)

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