

## Title (en)

Door lock mechanism in a cluster mailbox, especially for letter

## Title (de)

Türverriegelungsmechanismus in einer Postfachanordnung, insbesondere für Briefe

## Title (fr)

Dispositif de verrouillage des casiers à courrier, notamment pour des lettres

## Publication

**EP 2843161 A1 20150304 (EN)**

## Application

**EP 14002941 A 20140825**

## Priority

PL 40516013 A 20130829

## Abstract (en)

The lock mechanism includes a housed (2) linear electromechanical actuator (4) which raises the hook bolt (9) protruding from the face plate (3) through the double-arm lever system (6) and leaves it in an open position. The "L"-shaped double-arm lever (6) is rotated around a shorter horizontal arm (8) by 180°. The lever has a rotating bearing on a pin (7) in the corner area of both arms (8, 10), the shorter horizontal arm (8) of which is topped with a hook bolt (9) and the longer vertical arm (10) is topped with a pusher (11) facing the opening in the face plate (3). The double-armed lever (6) is loaded with a torsion spring mounted at one end to the pin (7) and at the other to the longer arm (10) on the side of the pusher (11). The electromechanical actuator (4) faces the piston rod (5) and presses on the longer arm (10) on the opposite side to the pusher (11). Dimensions of the length of arms (8, 10) of the double-armed lever (6), the depth of the bolt (9) and the length of the pusher (11) are carefully chosen. When the piston rod (5) of the electromechanical actuator (4) is being pushed out, the face of the pusher (11) makes contact with the door (1) only after the bolt (9) is at a height that is not less than its depth.

## IPC 8 full level

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## CPC (source: EP)

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## Citation (applicant)

- FR 2845718 A1 20040416 - LAPERCHÉ SA [FR]
- FR 2941732 A1 20100806 - DECAYEUX ETS [FR]

## Citation (search report)

- [A] FR 2749343 A1 19971205 - SIRANDRE SA [FR]
- [A] DE 1434984 A1 19690102 - GLOS GEORG
- [A] GB 406811 A 19340308 - WILLIAM HENRY TONKS
- [A] US 2576978 A 19511204 - SWARD DELBERT F
- [AD] FR 2845718 A1 20040416 - LAPERCHÉ SA [FR]

## Designated contracting state (EPC)

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## DOCDB simple family (application)

**EP 14002941 A 20140825**; PL 14002941 T 20140825; PL 2014000096 W 20140827; PL 40516013 A 20130829