

Title (en)

A LOCK FOR A HINGED CLOSURE MEMBER

Title (de)

SCHLOSS FÜR EIN SCHARNIERVERSCHLUSSELEMENT

Title (fr)

SERRURE POUR UN ÉLÉMENT DE FERMETURE ARTICULÉ

Publication

**EP 4191007 A1 20230607 (EN)**

Application

**EP 22211475 A 20221205**

Priority

EP 21212439 A 20211206

Abstract (en)

A lock (1) comprising: a frame (4); a dead bolt (3) slideably mounted on the frame; a dead bolt lever (37) pivotally mounted on the frame; a key-actuated cylinder (10); and a locking mechanism configured to lock the dead bolt. The locking mechanism having a predefined leeway and comprising: a spring-biased retaining member (25) comprising a slot having a catch; and a projecting element (27) on the dead bolt which extends into said slot. The catch is delimited by four edges with an inclined edge having an inclination of at least 60° and with an edge having a length of at most 1,5 times a diameter of a minimal bounding circle of the projecting element. The dead bolt lever has a cut-out portion allowing a rotary driving bit of the cylinder to pass an engaging portion for every dead bolt lever position within the predefined leeway. These measures reduce dead bolt leeway.

IPC 8 full level

**E05B 63/00** (2006.01); **E05B 9/00** (2006.01); **E05B 59/00** (2006.01); **E05B 63/04** (2006.01); **E05B 63/06** (2006.01)

CPC (source: EP)

**E05B 63/0021** (2013.01); **E05B 63/044** (2013.01); **E05B 63/06** (2013.01); **E05B 59/00** (2013.01)

Citation (applicant)

- EP 1118559 A1 20010725 - CHRONOPOST SA [FR]
- EP 2915939 A1 20150909 - LOCINOX [BE]
- EP 3239440 A1 20171101 - LOCINOX [BE]
- EP 1118739 A1 20010725 - TALPE JOSEPH JR [BE]

Citation (search report)

- [XD] EP 2915939 A1 20150909 - LOCINOX [BE]
- [A] EP 0786573 A2 19970730 - KOVINOPLASTIKA LOZ IND KOVINSK [SI]
- [A] US 5765410 A 19980616 - KWAN KA-CHIN [GB], et al
- [A] EP 1118739 B1 20050406 - TALPE JOSEPH JR [BE]

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

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BA

Designated validation state (EPC)

KH MA MD TN

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