

Title (en)

ASSEMBLY FOR SECURITY LOCKS AND RELATIVE LOCK

Title (de)

ANORDNUNG FÜR SICHERHEITSSCHLÖSSER UND ZUGEHÖRIGES SCHLOSS

Title (fr)

ENSEMBLE POUR SERRURES DE SÉCURITÉ ET SERRURES ASSOCIÉES

Publication

**EP 4345234 A1 20240403 (EN)**

Application

**EP 22198149 A 20220927**

Priority

EP 22198149 A 20220927

Abstract (en)

Assembly (100, 200) for locks comprising: a case (101) comprising at least one bottom and a front provided with at least one hole, the plane of the front being incident to the plane of the bottom; a bolt comprising at least one cylinder configured to traverse the hole of the front, moving from a first position in which it is retracted inside the case to a second position in which it has exited the case, and vice versa; a slider (106) comprising a plate parallel to the bottom of the case (101), said slider (106) being configured to translate from a first position to a second position and to co-operate with the bolt in such a way that, when the at least one cylinder of the bolt is in its second position, the slider (106) is in its first position, and when the at least one cylinder of the bolt is in its first position, the slider (106) is in its second position; a cylinder (102) for key provided with a first toothed cam (102'), said first toothed cam (102') being rotatable by means of a key; a second toothed cam (105) configured to co-operate with said first toothed cam (102') in such a way that when the first toothed cam (102') rotates in a first direction, the second toothed cam (105) rotates in a second direction, opposite to the first direction; a cogged wheel (103) provided with a first pin (103') and with a second pin (103''), said cogged wheel (103) being hinged to a fixed pin (110) integral with the bottom of the case and being configured to co-operate with the second toothed cam (105), in such a way that, when the first toothed cam (102') rotates through a first angle ( $\alpha$ ) smaller than or equal to  $200^\circ$ , the cogged wheel (103) also rotates through a second angle ( $\beta$ ) in a first direction; a transmission lever (107) hinged to the fixed pin (110) and rotatable around the fixed pin (110), said transmission lever (107) being configured to co-operate with the cogged wheel (103) and the slider (106), in such a way that, when the cogged wheel (103) rotates through the second angle ( $\beta$ ), the transmission lever (107) also rotates in the first direction and the slider (106) translates from its first to its second position.

IPC 8 full level

**E05C 9/02** (2006.01); **E05B 17/20** (2006.01)

CPC (source: EP)

**E05C 9/023** (2013.01); **E05B 17/2034** (2013.01); **E05B 17/2053** (2013.01)

Citation (applicant)

- EP 4023841 A1 20220706 - MARSILII SERRATURE S R L [IT]
- IT 201600103226 A 20161014
- IT 201600103226 A1 20180414 - MARSILII FRANCO [IT]

Citation (search report)

- [IA] DE 20110221 U1 20011115 - GRUNDMANN BESCHLAGTECHNIK GMBH [AT]
- [A] EP 1857617 A2 20071121 - TALLERES ESCORIAZA SA [ES]
- [AD] IT 201600103226 A1 20180414 - MARSILII FRANCO [IT]

Designated contracting state (EPC)

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