

Title (en)
IMPROVED LOCK

Title (de)
VERBESSERTES SCHLOSS

Title (fr)
DISPOSITIF DE VERROUILLAGE AMÉLIORÉ

Publication
EP 3103943 A1 20161214 (EN)

Application
EP 15171614 A 20150611

Priority
EP 15171614 A 20150611

Abstract (en)
A tumbler for positioning in a bore perpendicular to a keyway in a lock for selectively engaging a feature of a key within the keyway, said tumbler comprising a male part that interlocks with a female part about a compressed spring; the male part having retaining teeth for selectively engaging an inner notch or an outer notch of the female part, such that when said retaining teeth engage the outer notch, the tumbler has a first configuration with an uncompressed overall length and on compression assumes a second configuration wherein the teeth of the male part engage the inner notch in the female section so that the overall length of the lock component is reduced, the change being irreversible.

IPC 8 full level
E05B 27/00 (2006.01); **E05B 15/14** (2006.01); **E05B 35/08** (2006.01)

CPC (source: EP)
E05B 27/0021 (2013.01); **E05B 27/005** (2013.01)

Citation (applicant)
• US 2012055212 A1 20120308 - NICOARA PETRISOR [IL]
• DE 202004015051 U1 20050915 - NOCH KLAUS [DE]
• EP 0763639 A1 19970319 - KELLER ERNST [CH]
• US 3589153 A 19710629 - HILL LEWIS J
• US 8347678 B2 20130108 - CHONG GERALD B [US]
• US 7634931 B2 20091222 - SEGIEN DONALD J [US], et al
• US 4732023 A 19880322 - SHEN CHAO C [TW]
• EP 2184426 A1 20100512 - NOCH KLAUS [DE]
• US 3802234 A 19740409 - GERLACH J

Citation (search report)
• [A] US 3190093 A 19650622 - SCHLAGE ERNEST L
• [A] JP 2002121939 A 20020426 - GOAL KK
• [A] US 2232017 A 19410218 - WILDER GEORGE W

Cited by
US2020173192A1

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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