

Title (en)
Effraction-resistant device for a lock with flat tumblers

Title (de)
Einbruchsicherung für ein Schloss mit plattenförmigen Zuhaltungen

Title (fr)
Dispositif anti-effraction pour une serrure à gorges

Publication
EP 0903455 A2 19990324 (EN)

Application
EP 98116877 A 19980907

Priority
IT BO970565 A 19970918

Abstract (en)
An effraction-resistant device for a lock with plate tumblers (18) comprising a casing (1) which slidably accommodates a bolt (9) whose tang (10) has a rack-like set of teeth (11) for moving the bolt by means of a double-pattern actuation key and a transverse pin (33) for locking the bolt so that it is engaged in openings (30) of the tumblers (18) which are elongated in the direction in which the bolt slides. The openings have, along their longitudinal edges, mutually opposite teeth (31,32) which form passages through which the transverse pin (33) can travel by successive key turns. The tumblers (18) have two slots (26,27) which are elongated at right angles to the tang (10) and are engaged by respective guiding pins (13,39) in order to guide the tumblers (18), in contrast with return springs (38), at right angles to the direction in which the bolt (9) slides. The device is characterized in that one (13) of the guiding pins is fixed and the other one (39) is movable and has opposite ends which are rigidly coupled, with play, in respective seats formed in respective mutually opposite walls of the box-like body, so as to allow movements of the pin in the slots and oscillations of the tumblers in an inclined position; engagement means (45,47) are provided which are adapted to engage the tumblers (18) when they are fraudulently made to oscillate in the inclined position. <IMAGE>

IPC 1-7
E05B 21/00

IPC 8 full level
E05B 21/00 (2006.01); **E05B 63/00** (2006.01)

CPC (source: EP)
E05B 21/00 (2013.01); **E05B 63/0017** (2013.01)

Cited by
EP2532811A1; KR100955162B1; ITMI20110206A1; RU2722182C1; RU2710684C1; ITRM20090258A1; ITTO20100576A1; RU2658611C1; RU2648626C1; ITMI20101056A1; IT201900003473A1; RU2658609C1; ITTO20110510A1; RU2658610C1; GB2439327A; GB2439327B; ITTO20110461A1; US7178371B2; WO03080969A1; WO2012107856A1; WO2009057170A1; EP2915937A1; WO2015132231A1

Designated contracting state (EPC)
ES FR GR PT

DOCDB simple family (publication)
EP 0903455 A2 19990324; **EP 0903455 A3 19990630**; **EP 0903455 B1 20030716**; ES 2203864 T3 20040416; IT 1295184 B1 19990504; IT BO970565 A0 19970918; IT BO970565 A1 19990318; PT 903455 E 20031128

DOCDB simple family (application)
EP 98116877 A 19980907; ES 98116877 T 19980907; IT BO970565 A 19970918; PT 98116877 T 19980907