

Title (en)

Key and cylinder for a safety lock

Title (de)

Schlüssel und Drehschliesszylinder für ein Sicherheitsschloss

Title (fr)

Clé et cylindre pour une serrure de sécurité

Publication

EP 0621384 B1 19990908 (DE)

Application

EP 94810177 A 19940323

Priority

CH 97593 A 19930330

Abstract (en)

[origin: EP0621384A1] The key has, in the shank, a continuous bore (8), in which two opposed control elements (9, 10) are mounted, these elements being movable inwards counter to the restoring force of a compression spring (12) arranged in the bore (8). When the key is inserted into a keyway (2) of the rotary lock cylinder, an additional tumbler (15) is raised by one control element (10), this tumbler engaging radially into a recess (6a) of the stator (3). In the case of a key without a control element (10), the rotor is blocked by the tumbler (15). When a key (2) according to the invention is used, the rotor (1) can be rotated, the tumbler (15) being lifted out of the recess (6a) and the control element (10) being moved radially inwards. After a rotation through, for example, 90°, a counterbolt (16) of the stator (3) is put in place by the tumbler (15). Here too, if the control element (10) is absent, the rotor (1) is blocked by the counterbolt (16). <IMAGE>

IPC 1-7

E05B 35/00

IPC 8 full level

E05B 21/00 (2006.01); **E05B 27/04** (2006.01); **E05B 35/00** (2006.01)

CPC (source: EP US)

E05B 35/003 (2013.01 - EP US); **Y10T 70/7565** (2015.04 - EP US); **Y10T 70/7571** (2015.04 - EP US); **Y10T 70/7599** (2015.04 - EP US); **Y10T 70/7881** (2015.04 - EP US); **Y10T 70/7944** (2015.04 - EP US)

Cited by

EP2998471A1; EP3372759A1; CN102535968A; CN101936093A; EP1760229A3; FR2747720A1; EP0802289A3; EP4047161A1; CN105408565A; EA033975B1; WO2015004192A1; WO2015000966A1; US6973814B2; US7370503B2; US10125520B2

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0621384 A1 19941026; EP 0621384 B1 19990908; AT E184359 T1 19990915; CA 2116835 A1 19941001; CA 2116835 C 20040810; CH 686969 A5 19960815; DE 59408708 D1 19991014; DK 0621384 T3 20000327; ES 2138057 T3 20000101; FI 113078 B 20040227; FI 941456 A0 19940329; FI 941456 A 19941001; GR 3031605 T3 20000131; JP 3109787 B2 20001120; JP H07113363 A 19950502; SG 45194 A1 19980116; US 5457974 A 19951017

DOCDB simple family (application)

EP 94810177 A 19940323; AT 94810177 T 19940323; CA 2116835 A 19940302; CH 97593 A 19930330; DE 59408708 T 19940323; DK 94810177 T 19940323; ES 94810177 T 19940323; FI 941456 A 19940329; GR 990402701 T 19991021; JP 5221694 A 19940323; SG 1996001156 A 19940323; US 20485494 A 19940302