

Title (en)  
SECURITY TURNKEY AND LOCK SYSTEM

Title (de)  
SICHERHEITS-WENDESCHLÜSSEL UND SCHLIESSSYSTEM

Title (fr)  
CLE REVERSIBLE DE SURETE ET SYSTEME DE FERMETURE

Publication  
**EP 1185755 A1 20020313 (DE)**

Application  
**EP 01916829 A 20010402**

Priority  
• CH 0100207 W 20010402  
• CH 7192000 A 20000411  
• CH 7202000 A 20000411

Abstract (en)  
[origin: WO0177466A1] The invention relates to a security turnkey with a dedicated cylinder (Z), comprising a block groove (BN) with a coded block depth (B1, B2, B3), running parallel to the key axis (x), from the key tip to at least the first position (P1) of a tumbler row (A2) on the key. The dedicated cylinder has, at least in the rearmost coded position (P1), a tumbler pair corresponding to one of the block grooves (BN) and is provided with a block tumbler (BZ) and an elongated counter block tumbler (BG), whereby the counter block tumbler (BG) stands proud on the cylinder shell (10) when the block groove is too shallow and thus prevents the complete insertion of a key, by means of the block tumbler pair. At the same time the block tumbler (BZ) with the counter tumbler (BG) in position (P1) also serve as coding tumblers.  
[origin: WO0177466A1] The invention relates to a security turnkey with a dedicated cylinder (Z), comprising a block groove (BN) with a coded block depth (B1, B2, B3), running parallel to the key axis (x), from the key tip to at least the first position (P1) of a tumbler row (A2) on the key. The dedicated cylinder has, at least in the rearmost coded position (P1), a tumbler pair corresponding to one of the block grooves (BN) and is provided with a block tumbler (BZ) and an elongated counter block tumbler (BG), whereby the counter block tumbler (BG) stands proud on the cylinder shell (10) when the block groove is too shallow and thus prevents the complete insertion of a key, by means of the block tumbler pair. At the same time the block tumbler (BZ) with the counter tumbler (BG) in position (P1) also serve as coding tumblers.

IPC 1-7  
**E05B 19/00**; **E05B 17/16**; **E05B 17/00**

IPC 8 full level  
**E05B 17/00** (2006.01); **E05B 17/16** (2006.01); **E05B 19/00** (2006.01); **E05B 19/02** (2006.01); **E05B 19/06** (2006.01); **E05B 27/00** (2006.01); **E05B 27/02** (2006.01); **E05B 27/06** (2006.01); **E05B 27/10** (2006.01)

IPC 8 main group level  
**E05B** (2006.01)

CPC (source: EP US)  
**E05B 17/0004** (2013.01 - EP US); **E05B 17/16** (2013.01 - EP US); **E05B 19/0023** (2013.01 - EP US); **E05B 27/00** (2013.01 - EP US); **Y10T 70/7605** (2015.04 - EP US); **Y10T 70/7864** (2015.04 - EP US); **Y10T 70/7881** (2015.04 - EP US); **Y10T 70/7944** (2015.04 - EP US); **Y10T 70/7977** (2015.04 - EP US)

Cited by  
WO2014032191A1; RU2629737C2; EP3822433A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**WO 0177466 A1 20011018**; AT E270370 T1 20040715; AU 4401701 A 20011023; AU 6411200 A 20011018; AU 784184 B2 20060216; CA 2372313 A1 20011018; CA 2372313 C 20081007; CN 1243898 C 20060301; CN 1366571 A 20020828; CZ 20014179 A3 20020417; CZ 299579 B6 20080903; DE 50102720 D1 20040805; DK 1185755 T3 20041101; EP 1185755 A1 20020313; EP 1185755 B1 20040630; ES 2223808 T3 20050301; HK 1049361 A1 20030509; HU 229173 B1 20130930; HU P0201583 A2 20021028; JP 2003535238 A 20031125; JP 2009036018 A 20090219; JP 4358471 B2 20091104; JP 4864956 B2 20120201; MY 122538 A 20060429; NO 20016033 D0 20011210; NO 20016033 L 20020208; NO 336386 B1 20150810; NZ 515825 A 20031128; PL 201483 B1 20090430; PL 352630 A1 20030825; PT 1185755 E 20041130; SK 17132001 A3 20021008; SK 286550 B6 20081205; US 2003101783 A1 20030605; US 6912881 B2 20050705; ZA 200109663 B 20021125

DOCDB simple family (application)  
**CH 0100207 W 20010402**; AT 01916829 T 20010402; AU 4401701 A 20010402; AU 6411200 A 20001009; CA 2372313 A 20010402; CN 01800883 A 20010402; CZ 20014179 A 20010402; DE 50102720 T 20010402; DK 01916829 T 20010402; EP 01916829 A 20010402; ES 01916829 T 20010402; HK 03101415 A 20030225; HU P0201583 A 20010402; JP 2001574705 A 20010402; JP 2008264715 A 20081014; MY PI20011717 A 20010410; NO 20016033 A 20011210; NZ 51582501 A 20010402; PL 35263001 A 20010402; PT 01916829 T 20010402; SK 17132001 A 20010402; US 1806002 A 20020702; ZA 200109663 A 20011123