

Title (en)

System comprising a key, which can not be copied, and a lock for such a key

Title (de)

System aus einem nicht nachahmbaren Schlüssel und einem Schliesszylinder für diesen

Title (fr)

Système comportant une clé, qui ne peut pas être copiée, et une serrure pour une telle clé

Publication

**EP 0802289 B1 19990616 (DE)**

Application

**EP 97106385 A 19970417**

Priority

- ES 9600879 A 19960418
- FI 972928 A 19970710
- NO 973179 A 19970709
- SE 9702675 A 19970711
- US 9475098 A 19980615

Abstract (en)

[origin: EP0802289A2] The lock cylinder has a toothed edge key (1). One of the edges (1b) contains a series of protrusions and recesses forming a combination with tumbler pins (14) spring-loaded inside a stator (2) and rotor (3) which form part of the cylinder. A blind recess (7) in the untoothed edge (1a) accommodates a relatively strong compression spring (9) and a security tumbler pin (8) moving between extended and retracted positions. When the correct key is inserted, this pin is radially aligned and in contact with a mating pin (10) in a seat in the stator via the opening (13) in a plate (12) inserted in the rotor. The thickness of the plate is equal to the difference between the radii of the untoothed edge (4) and that (5) of the outside of the rotor. In the lengthwise direction, the position of the pins does not coincide with that of the tumbler pins (14) of the main combination.

IPC 1-7

**E05B 19/00**; **E05B 27/00**; **E05B 35/00**

IPC 8 full level

**E05B 19/06** (2006.01); **E05B 27/00** (2006.01); **E05B 27/06** (2006.01); **E05B 35/00** (2006.01); **E05B 19/00** (2006.01)

CPC (source: EP US)

**E05B 27/0042** (2013.01 - EP US); **E05B 35/003** (2013.01 - EP US); **E05B 19/0052** (2013.01 - EP US); **Y10T 70/7565** (2015.04 - EP US); **Y10T 70/7605** (2015.04 - EP US); **Y10T 70/7802** (2015.04 - EP US)

Cited by

US9045915B2; WO2014107666A1; US6973814B2; US7370503B2

Designated contracting state (EPC)

AT BE DE GB IT NL

DOCDB simple family (publication)

**EP 0802289 A2 19971022**; **EP 0802289 A3 19980325**; **EP 0802289 B1 19990616**; AT E181392 T1 19990715; DE 59700211 D1 19990722; ES 2138488 A1 20000101; ES 2138488 B1 20000516; FI 113200 B 20040315; FI 972928 A0 19970710; FI 972928 A 19990111; FR 2747720 A1 19971024; FR 2747720 B1 19990129; NO 322994 B1 20061218; NO 973179 D0 19970709; NO 973179 L 19990111; SE 512448 C2 20000320; SE 9702675 D0 19970711; SE 9702675 L 19990112; US 6125674 A 20001003

DOCDB simple family (application)

**EP 97106385 A 19970417**; AT 97106385 T 19970417; DE 59700211 T 19970417; ES 9600879 A 19960418; FI 972928 A 19970710; FR 9704810 A 19970418; NO 973179 A 19970709; SE 9702675 A 19970711; US 9475098 A 19980615