

Title (en)

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

Title (de)

System aus einen nicht nachahmbaren Schlüssel und einem Schliesszylinder für diesen

Title (fr)

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

Publication

EP 0802289 A3 19980325 (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

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IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [A] DE 3517660 A1 19851121 - TALLERES ESCORIAZA SA [ES]
- [A] EP 0472495 A1 19920226 - KELLER ERNST [CH]
- [A] EP 0621384 A1 19941026 - KELLER ERNST [CH]
- [A] FR 2619149 A1 19890210 - VACHETTE SA [FR]

Cited by

US9045915B2; WO2014107666A1; US6973814B2; US7370503B2

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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

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