

Title (en)

Combination of a flat key and a cylinder lock

Title (de)

Kombination eines Flachschlüssels und eines Zylinderschlosses

Title (fr)

Combinaison d'une clé plate et d'une serrure cylindrique

Publication

EP 1712714 A1 20061018 (DE)

Application

EP 05022561 A 20051017

Priority

AT 6142005 A 20050412

Abstract (en)

The key (1) has at least three control grooves on at least one of the two side surfaces and at least one groove is deeper than the others. The two shallow grooves are approximately parallel and the key may have further control elements such as cuts on the shaft (3) for pin tumblers. Control surface on the back, longitudinal ribs and grooves in the thrust direction (5) and millings on the side surfaces. Both shallow grooves are wider in the region from the key tip (10) to at least the first control point (23). An independent claim is also included for a lock for the inventive key.

IPC 8 full level

E05B 19/00 (2006.01); **E05B 27/10** (2006.01)

CPC (source: EP US)

E05B 27/0078 (2013.01 - EP US); **E05B 27/0082** (2013.01 - EP US); **E05B 27/10** (2021.08 - EP); **E05B 19/0052** (2013.01 - EP US); **E05B 27/10** (2021.08 - US); **Y10T 70/7616** (2015.04 - EP US); **Y10T 70/7881** (2015.04 - EP US)

Citation (search report)

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- [A] US 4270372 A 19810602 - VONLANTHEN BENNO, et al
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- [A] WO 03060261 A1 20030724 - FAB A S [CZ], et al
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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1712714 A1 20061018; EP 1712714 B1 20100407; AT 501706 A1 20061015; AT 501706 B1 20070115; AT E463642 T1 20100415; AU 2006201505 A1 20061026; AU 2006201505 B2 20110616; DE 502005009359 D1 20100520; DK 1712714 T3 20100719; ES 2343122 T3 20100723; JP 2006291699 A 20061026; JP 4809104 B2 20111109; NZ 546514 A 20070831; PL 1712714 T3 20101130; PT 1712714 E 20100712; RU 2006112027 A 20071020; RU 2379453 C2 20100120; SI 1712714 T1 20100831; US 2006236733 A1 20061026

DOCDB simple family (application)

EP 05022561 A 20051017; AT 05022561 T 20051017; AT 6142005 A 20050412; AU 2006201505 A 20060411; DE 502005009359 T 20051017; DK 05022561 T 20051017; ES 05022561 T 20051017; JP 2006108728 A 20060411; NZ 54651406 A 20060411; PL 05022561 T 20051017; PT 05022561 T 20051017; RU 2006112027 A 20060411; SI 200531053 T 20051017; US 40237506 A 20060411