

Title (en)  
Cylinder lock with flat key

Title (de)  
Zylinderschloss mit Flachschlüssel

Title (fr)  
Serrure à barillet avec clef plate

Publication  
**EP 1068415 B1 20050608 (DE)**

Application  
**EP 99911510 A 19990401**

Priority  

- AT 9900088 W 19990401
- AT 83898 A 19980514
- DE 19815212 A 19980404
- DE 29806241 U 19980404
- DE 19831198 A 19980711

Abstract (en)  
[origin: WO9951837A1] The invention relates to a flat key for a cylinder lock whose shaft comprises a longitudinal profile with longitudinal grooves and/or longitudinal ribs on both flat sides. The longitudinal profile of the tip section (tip profile) of the shaft is different from the longitudinal profile of the shaft section (shaft profile). The shaft on the key bit has at least one key notch for controlling a tumbler pin. The tip profile is narrower than the shaft profile such that the contour of the tip profile is situated inside the contour of the shaft profile. The invention is characterized in that the at least one key notch (5') on the key bit is arranged in the tip section (4).

IPC 1-7  
**E05B 19/00**

IPC 8 full level  
**E05B 19/00** (2006.01); **E05B 27/04** (2006.01); **E05B 27/00** (2006.01)

CPC (source: EP)  
**E05B 15/08** (2013.01); **E05B 19/0017** (2013.01); **E05B 19/0035** (2013.01); **E05B 19/0052** (2013.01)

Citation (examination)  

- US 4127996 A 19781205 - MALMINEN HENRIKKI, et al
- US 5088306 A 19920218 - FIELD PETER H [US]
- DE 3129577 A1 19820805 - EVVA WERKE [AT]

Cited by  
WO2015000963A1

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

DOCDB simple family (publication)  
**WO 9951837 A1 19991014; WO 9951837 A8 19991216;** AU 3018099 A 19991025; CZ 20003582 A3 20010516; CZ 294471 B6 20050112; DE 59912156 D1 20050714; DK 1068415 T3 20051010; EP 1068415 A1 20010117; EP 1068415 B1 20050608; ES 2244181 T3 20051201; HK 1033846 A1 20010928; HR P20000651 A2 20010430; HR P20000651 B1 20070531; HU 223557 B1 20040928; HU P0101413 A2 20010928; HU P0101413 A3 20020228; NO 20004928 D0 20000929; NO 20004928 L 20001201; PL 195021 B1 20070831; PL 343279 A1 20010813; PT 1068415 E 20051031; TR 200002859 T2 20001221

DOCDB simple family (application)  
**AT 9900088 W 19990401;** AU 3018099 A 19990401; CZ 20003582 A 19990401; DE 59912156 T 19990401; DK 99911510 T 19990401; EP 99911510 A 19990401; ES 99911510 T 19990401; HK 01104369 A 20010622; HR P20000651 A 20001003; HU P0101413 A 19990401; NO 20004928 A 20000929; PL 34327999 A 19990401; PT 99911510 T 19990401; TR 200002859 T 19990401