

Title (en)  
Flat key

Title (de)  
Flachschlüssel

Title (fr)  
Clef plate

Publication  
**EP 1154103 A1 20011114 (DE)**

Application  
**EP 01890127 A 20010504**

Priority  
AT 3402000 U 20000509

Abstract (en)  
The flat key has a bit (6) with a stop (11) to restrict its insert depth into the lock channel of the cylinder. The stop is formed in the profile of the bit on the flat side of the key. The bit profile has axially aligned grooves and ribs and at least one serves as the stop and has a radially aligned edge. One groove starting from the key tip can be shorter than the length of the bit.

Abstract (de)  
Ein Flachschlüssel (5, 19) mit Schlüsselreide (10) und Schlüsselbart (6) für einen Schließzylinder (1, 15) trägt einen Anschlag (11) zur Einschubbegrenzung in den Schlüsselkanal (4, 16) des Schließzylinders im Bereich des Schlüsselbartes (6). Der Anschlag (11) kann als Endfläche einer Profilmutter (12) des Schlüsselprofils ausgebildet sein. Ferner kann der Anschlag als eine Ausnehmung oder Öffnung (21) im Schlüsselbart des Schlüssels (19) vorgesehen sein, in die eine gefederte Klinke (17) des Schlüsselkanals einrastet. <IMAGE>

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

IPC 8 full level  
**E05B 15/08** (2006.01); **E05B 19/00** (2006.01)

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

Citation (applicant)  

- AT 310609 B 19731010 - VOSS KG J [DE]
- US 1679558 A 19280807 - ELLISON BEST FRANK
- DE 363674 C 19221111 - DAMM & LADWIG
- AT 91405 B 19230226 - BEST LOCK COMPANY [US]
- CH 311741 A 19551215 - CRYPTOTECHNIK AB [SE]

Citation (search report)  

- [X] DE 3503660 A1 19860807 - KARRENBERG FA WILHELM [DE]
- [X] WO 9951837 A1 19991014 - EVVA WERKE [AT], et al
- [X] EP 0663498 A1 19950719 - NIEMANN HANS DIETER [DE]
- [X] DE 3537902 A1 19870430 - WILHELM FRANZ DIPL ING FH
- [X] DE 3225952 A1 19840112 - KARRENBERG WILHELM [DE]
- [A] US 5136869 A 19920811 - BEST WALTER F [US]

Cited by  
EP1556567A4; CZ306122B6; CZ303220B6; GR1008183B; CZ305479B6; EP2990567A1

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)  
**EP 1154103 A1 20011114; EP 1154103 B1 20021030**; AT 4292 U1 20010525; AT E226999 T1 20021115; DE 50100046 D1 20021205; DK 1154103 T3 20030224; ES 2185609 T3 20030501

DOCDB simple family (application)  
**EP 01890127 A 20010504**; AT 01890127 T 20010504; AT 3402000 U 20000509; DE 50100046 T 20010504; DK 01890127 T 20010504; ES 01890127 T 20010504