

Title (en)  
Cylinder lock and flat key

Title (de)  
Zylinderschloss sowie Flachschlüssel

Title (fr)  
Serrure cylindrique et clé plate

Publication  
**EP 1816288 B1 20161102 (DE)**

Application  
**EP 07000587 A 20070112**

Priority  
• AT 1642006 A 20060202  
• AT 1212006 U 20060220

Abstract (en)  
[origin: FR2896817A3] Cylindrical lock comprises cylindrical core pins (7) formed on the end protruding into the key channel as scanning protrusions (9) which are narrower than the diameter of the core pins and are aligned in the longitudinal direction of the key channel. At least two core pins have different protrusions displaced in a parallel manner either in the center along the longitudinal plane of the key channel or to the left and right. An independent claim is also included for a flay key for a cylindrical lock. Preferred Features: The scanning protrusions are formed as bars (12) arranged at different distances parallel to the longitudinal plane or in the center along the longitudinal plane.

IPC 8 full level  
**E05B 27/00** (2006.01); **E05B 19/02** (2006.01)

CPC (source: EP GB)  
**E05B 19/0023** (2013.01 - EP GB); **E05B 27/0017** (2013.01 - EP); **E05B 27/0078** (2013.01 - GB); **E05B 19/0052** (2013.01 - EP);  
**E05B 2027/0025** (2013.01 - EP)

Citation (examination)  
• DE 29922815 U1 20000224 - EVVA WERKE [AT]  
• CN 2627151 Y 20040721 - SHAO JINGPING [CN]  
• CN 2089042 U 19911120 - SUN ZONGMING [CN]

Cited by  
DE102012106326A1; CN104481289A; DE102012106326B4; AT523793A1; WO2021213838A1; EP2685030A2; EP3409865A2

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

DOCDB simple family (publication)  
**FR 2896817 A3 20070803; FR 2896817 B3 20071130**; AT 9157 U1 20070515; AU 2007200425 A1 20070816; AU 2007200425 B2 20110714; DE 202006005188 U1 20060614; DK 1816288 T3 20170206; EP 1816288 A2 20070808; EP 1816288 A3 20100616; EP 1816288 B1 20161102; ES 2611590 T3 20170509; GB 0608453 D0 20060607; GB 201102047 D0 20110323; GB 2434827 A 20070808; GB 2434827 B 20111012; GB 2475994 A 20110608; GB 2475994 B 20111012; HU E030316 T2 20170428; IE S20060282 A2 20070221; LT 1816288 T 20170125; NL 2000063 C1 20060705; PL 1816288 T3 20170428; PT 1816288 T 20170113; RU 2007103932 A 20080810; RU 2404339 C2 20101120

DOCDB simple family (application)  
**FR 0603337 A 20060414**; AT 1212006 U 20060220; AU 2007200425 A 20070201; DE 202006005188 U 20060331; DK 07000587 T 20070112; EP 07000587 A 20070112; ES 07000587 T 20070112; GB 0608453 A 20060428; GB 201102047 A 20060428; HU E07000587 A 20070112; IE S20060282 A 20060412; LT 07000587 T 20070112; NL 2000063 A 20060427; PL 07000587 T 20070112; PT 07000587 T 20070112; RU 2007103932 A 20070201