

Title (en)  
Lock cylinder

Title (de)  
Schliesszylinder

Title (fr)  
Serrure cylindrique

Publication  
**EP 1333135 A1 20030806 (DE)**

Application  
**EP 02002424 A 20020201**

Priority  
EP 02002424 A 20020201

Abstract (en)  
At least two core pins (12, 13) and their corresponding casing pins (19, 20) are offset at an angle of 180 deg. relative to each other, have parallel length axes (25) and can be rotated in opposite directions into the open position using a flat key. The length axis of at least one of the core pins and the keyway central axis (7) intersect at an acute angle at a point not on the core length axis. The keyway end regions of the core pins are covered by keyway wall sections (38-41) integrally formed from the core (3) and/or the bore (2) for receiving the core pins is at least partially covered at one end, in order to make manipulation of the core pins more difficult. The cylinder has at least two pairs of pins each comprising a casing pin which is spring-loaded in the direction of the core by a compression spring (21) and a coaxial core spring. The pins are moved into an open position by inserting a flat key between the outer mantle surface (14) of the core and the bore (2) inside the cylinder casing (1) for receiving the core. At least two core pins extend at an acute angle relative to the key central axis (6).

Abstract (de)  
Bei der Erfindung sind die Endbereiche der Kernstifte (12,13) durch mit dem Kern materialmäßig einstückige Wandungsteile (38-41) endseitig in einer ein Abtasten erschwerenden Weise abgedeckt, wobei mindestens zwei Paare (12,13) von aus Kernstiften und Gehäusestiften bestehenden Zuhaltungen um 180° versetzt zueinander und durch einen Flachschlüssel (5) gegenläufig hubbeweglich angeordnet sind und die Längsachsen der Kern- und Gehäusestifte paarweise parallel zueinander und außermittig zur Mitte des Schlüsselkanals verlaufen, derart, daß mindestens ein aus Kernstift und Gehäusestift bestehendes Stiftpaar (12,13) mit seiner Längsachse (26) die durch die Mitte des Schlüsselkanals verlaufende Mittellinie (7) unter einem spitzen Winkel außerhalb der Drehlängsachse (8) des Kerns schneidet. <IMAGE>

IPC 1-7  
**E05B 27/06**

IPC 8 full level  
**E05B 27/00** (2006.01); **E05B 27/06** (2006.01); **E05B 15/08** (2006.01)

CPC (source: EP)  
**E05B 27/00** (2013.01); **E05B 15/08** (2013.01); **E05B 27/0057** (2013.01)

Citation (search report)

- [Y] FR 1481530 A 19670519
- [Y] CH 651350 A5 19850913 - KELLER ERNST
- [Y] EP 0982452 A1 20000301 - LITTO [BE]
- [A] US 5809816 A 19980922 - WIDEN BO [SE]
- [A] EP 1132553 A2 20010912 - WINKHAUS FA AUGUST [DE]
- [DA] DE 3736129 A1 19890511 - NIEDERDRENK JULIUS KG [DE]

Cited by  
DE102016119036A1; CN105964832A; CN101871281A; CN108225171A

Designated contracting state (EPC)  
AT BE CH DE LI LU NL

DOCDB simple family (publication)  
**EP 1333135 A1 20030806; EP 1333135 B1 20080702**; AT E399916 T1 20080715; DE 50212432 D1 20080814

DOCDB simple family (application)  
**EP 02002424 A 20020201**; AT 02002424 T 20020201; DE 50212432 T 20020201