

Title (en)
Cylinder lock mechanism

Title (de)
ZYLINDERSCHLOSSMECHANISMUS

Title (fr)
MECANISME DE SERRURE A CYLINDRE

Publication
EP 0978608 A1 20000209 (EN)

Application
EP 99304688 A 19990616

Priority
GB 9814722 A 19980707

Abstract (en)
There is provided a key operated cylinder lock mechanism, which comprises a housing (3), a barrel (5) rotatably mounted within the housing, and a set of discs (7) rotatably mounted within the barrel about an initial key insertion position, the set of discs (7) comprising a plurality of locking discs which are rotatable by means of combination surfaces on the shank (9) of the key. The cylinder lock mechanism also comprises a first locking bar (12) disposed in the barrel and operable to engage the housing to prevent rotation of the barrel from the initial key insertion position, and a peripheral notch (18) on each disc adapted to receive said locking bar whereby correct alignment of the peripheral notches in the discs forms an opening into which the locking bar can pass to release the barrel and thereby permit the barrel to rotate. The cylinder lock mechanism further comprises a second locking bar (31) disposed in the barrel and each of the discs (70) has a second peripheral notch (40) which when aligned form an opening for receiving the second locking bar. The cylinder lock mechanism may also have spring means (72) acting radially on one or more of the locking discs separately urging each locking disc towards a rest position. <IMAGE>

IPC 1-7
E05B 21/06

IPC 8 full level
E05B 21/06 (2006.01); **E05B 29/08** (2006.01)

CPC (source: EP)
E05B 21/066 (2013.01)

Citation (search report)
• [X] EP 0712979 A1 19960522 - BREMICKER SOEHNE KG A [DE]
• [A] US 4228668 A 19801021 - SCHERBING FRANK J
• [A] DE 2135106 A1 19730125 - HUELSBECK & FUERST

Cited by
DE10024271A1; EP1199425A3; DE10024273A1; DE10024272A1; DE102014119676A1; US10358842B2; EP1156179A2; US10006224B2

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
GB 2339448 A 20000126; GB 2339448 B 20020508; GB 9814722 D0 19980902; EP 0978608 A1 20000209

DOCDB simple family (application)
GB 9814722 A 19980707; EP 99304688 A 19990616