Title (en)

Motor-driven lock set.

Title (de)

Motorantrieb für Schloss.

Title (fr)

Serrure à commande par moteur.

Publication

EP 0276037 A2 19880727 (EN)

Application

EP 88200059 A 19880114

Priority

GB 8701351 A 19870122

Abstract (en)

A lock set particularly for use in access-control systems comprises a cylinder unit 1 based on a standard pattern which is key-operable from the outside and operable by a thumb turn from the inside. In place of the normal thumb turn, however, the cylinder unit has a coupling 10 into which fits a shaft 21 from a motor unit 2 mounted to the inside face of the door. In normal operation the motor 20 is actuated to unlock and then relock the door by turning the shaft 21 in opposite directions to correspondingly turn the cylinder cam 14. The extent of this movement is controlled by a limit/reversing switch 23 actuated by a cam 24 on the shaft 21. Operation from the outside can also be effected by key-operation of the cylinder unit and for emergency operation from the inside a thumb turn 7 is provided on the accessible end of the shaft 21. The permanent connection between the cylinder cam 14 and the shaft 21 means that the limit/reversing switch 23 is always in the correct position for subsequent operation of the motor 20 in the appropriate sense irrespective of whether the last locking or unlocking action was accomplished with the motor, thumb turn or key.

IPC 1-7

E05B 47/00

IPC 8 full level

E05B 47/00 (2006.01); E05B 9/10 (2006.01)

CPC (source: EP)

E05B 9/105 (2013.01); **E05B 47/0012** (2013.01); E05B 2047/002 (2013.01); E05B 2047/0022 (2013.01); E05B 2047/0048 (2013.01); E05B 2047/0091 (2013.01)

Cited by

EP0676518A3; EP0564440A1; EP0564441A1; EP0785324A1; RU2675430C2; GB2314118A; GB2314118B; ES2134723A1; AT1213U1; DE3835913A1; GB2463618A; GB2463618B; EP1296008A1; BE1014374A3; EP4253698A1; US6918276B2; WO9222720A1; WO2005024160A1; US8220299B2; WO2009006676A1; WO2014182509A1; EP2994586B1

Designated contracting state (EPC)

BE NL

DOCDB simple family (publication)

EP 0276037 A2 19880727; **EP 0276037 A3 19881102**; **EP 0276037 B1 19910529**; GB 2201452 A 19880901; GB 2201452 B 19900725; GB 8701351 D0 19870225; GB 8800693 D0 19880210

DOCDB simple family (application)

EP 88200059 A 19880114; GB 8701351 A 19870122; GB 8800693 A 19880113