

Title (en)
LOCKS

Publication
EP 0145420 A3 19860625 (EN)

Application
EP 84308305 A 19841129

Priority
GB 8333049 A 19831210

Abstract (en)
[origin: EP0145420A2] The lock has a bolt (2,3) which is shifted by handles on either side of the door, attached to a spindle (4). Movements of the bolt are controlled by two rotatable barrels (8) and (9) intersecting the profiled slots (10) and (11) in the bolt tail. In each barrel a pair of plungers (23) are sprung out into recesses in the surrounding lock body to block rotation of the barrel. Inward movement of the plungers to free the barrel is normally blocked by pairs of magnetic rotors (26A/26B, 26C/26D). To unblock the plungers a correctly coded magnetic key (Fig. 5) is inserted in the keyway (20) and the key and rotor magnets interact to turn the rotors into positions in which respective arcuate cut-outs (28) in the rotors align with the plungers (23). Turning the barrel now causes the plungers (23) to ride on inclined surfaces in the surrounding body thus pressing in the plungers and permitting rotation of the barrel. Barrel (8) is a "servant" barrel and barrel (9) is a "master". In Fig. 1 barrel (8) lies within a pocket (12) in the slot (10) to block throwing of the bolt. Turning it through 90 DEG permits the bolt to be single-thrown (to 2 min) whereupon it is blocked against further extension by barrel (9) in pocket (15) and blocked against retraction by barrel (8) in pocket (14) when (8) is rotated back to its locked position. Turning barrel (9) through 90 DEG now permits the bolt to be double-thrown (to 2 min) whereupon it is blocked against retraction by barrel (9) in pocket (17) when the latter is rotated back to its locked position. Retraction of the bolt involves the reverse sequence.

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E05B 47/00

IPC 8 full level
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CPC (source: EP)
E05B 35/12 (2013.01); **E05B 47/0042** (2013.01)

Citation (search report)
• [X] DE 2365990 A1 19770518 - MRT MAGNET REGELTECHNIK GMBH
• [A] US 2503315 A 19500411 - DEAN BAKER HAROLD ERNEST

Cited by
WO2007103332A3; US7698917B2; US8033147B2

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EP 0145420 A2 19850619; EP 0145420 A3 19860625; EP 0145420 B1 19890809; AT E45406 T1 19890815; AU 3646384 A 19850613; AU 569594 B2 19880211; DE 3479327 D1 19890914; GB 2151295 A 19850717; GB 2151295 B 19870311; GB 8333049 D0 19840118; GB 8430442 D0 19850109; IE 56038 B1 19910327; IE 843073 L 19850610

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