

Title (en)

KEY OPERATED LATCH WITH COMBINED ROTATIONAL AND TRANSLATIONAL LATCHING ACTION

Title (de)

DURCH EINEN SCHLÜSSEL BETÄTIGTES SCHLOSS MIT KOMBINierter DREH- UND SCHIEBESCHLISSBEWEGUNG

Title (fr)

DISPOSITIF DE VERROUILLAGE A ACTION DE VERROUILLAGE ROTATIF ET TRANSLATIONNEL COMBINEE COMMANDE PAR UNE CLE

Publication

EP 1073815 A4 20040721 (EN)

Application

EP 00907304 A 20000218

Priority

- US 0004030 W 20000218
- US 12072899 P 19990218

Abstract (en)

[origin: WO0049251A1] A key operated latch (10) includes a housing which supports a lock plug (111), a motion control sleeve (40), and a sleeve-like cam (20) therein. The cam (20) rotates with the lock plug (111), while the motion control sleeve (40) is stationary. The cam (20) has at least one cam slot, and the motion control sleeve (40) has at least one motion control slot. A shaft (50) extends outward from the housing and has at least one projection which is engaged with both the cam slot and the motion control slot. The cam slot and the motion control slot are configured such that rotation of the lock plug imparts a sequence of rotational and axial movements to the shaft (50). A latching member (70) attached to the shaft, moves between a latched position and an unlatched position in a sequence of axial and rotational motions in order to selectively secure a door, panel, or the like in the closed position.

IPC 1-7

E05B 17/04; **E05C 5/02**

IPC 8 full level

E05B 17/00 (2006.01); **E05B 17/04** (2006.01); **E05C 5/02** (2006.01)

CPC (source: EP KR)

E05B 17/04 (2013.01 - EP KR); **E05C 5/02** (2013.01 - EP); **E05B 17/0025** (2013.01 - EP)

Citation (search report)

- [DX] US 4583775 A 19860422 - BISBING ROBERT H [US]
- [DX] US 2049742 A 19360804 - LOWE CHARLES B
- [X] US 1907625 A 19330509 - VOGT ENGELBERT J
- [PX] WO 9914458 A1 19990325 - SOUTHCO [US]
- [E] WO 0020715 A1 20000413 - SOUTHCO [US]
- See references of WO 0049251A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

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DOCDB simple family (application)

US 0004030 W 20000218; AU 2882600 A 20000218; BR 0004887 A 20000218; CA 2329425 A 20000218; DE 60040579 T 20000218; EP 00907304 A 20000218; JP 2000599964 A 20000218; KR 20007011565 A 20001018