

EUROPEAN PATENT APPLICATION

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Change-key locks.

In a change-key lock there are two packs of levers (5A, 5B) meshing with respective packs of rotary tumblers (10A, 10B). The bolt (1, 2) carries two stumps (3A, 3B) which can be withdrawn into notches (13A, 13B) in the rotary tumblers (10A, 10B) when the latter are aligned by a double-bitted key (4) lifting the levers (5A, 5B). The pivot pins (11A, 11B) for the rotary tumblers (10A, 10B) are carried by a shiftable plate (12), normally locked by a lever (27). To reprogramme the lock the existing correct key (4) is first used to align the notches (13A, 13B) with the stumps (3A, 3B); an auxiliary "change" key (30) inserted to keyhole (31) then lifts the lever (27) and shifts the plate (12) to carry the rotary tumblers (10A, 10B) out of engagement with the levers (5A, 5B) and pass the notches (13A, 13B) over the bolt stumps (3A, 3B); the existing correct key (4) is replaced by the new key (4) which sets the levers (5A, 5B) to correspondingly new positions; and the "change" key (30) is turned back to re-engage the rotary tumblers (10A, 10B) with the levers (5A, 5B) in their new positions. In another embodiment designed especially for safe deposit lockers the bolt is split into two portions (50, 51) and (52) controlled by separate sets of tumblers (53C) and (53A, 53B) requiring the use of two different keys, tumbler set (53C) being reprogrammable independently of tumbler sets (53A, 53B).

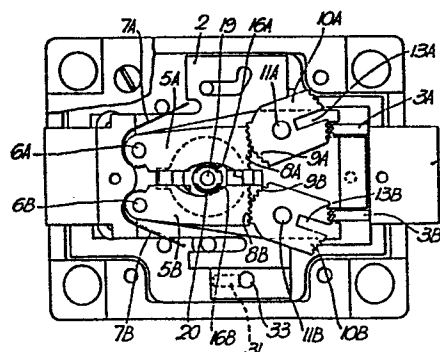


Fig. 1.

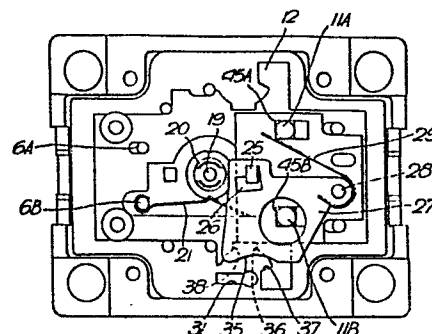
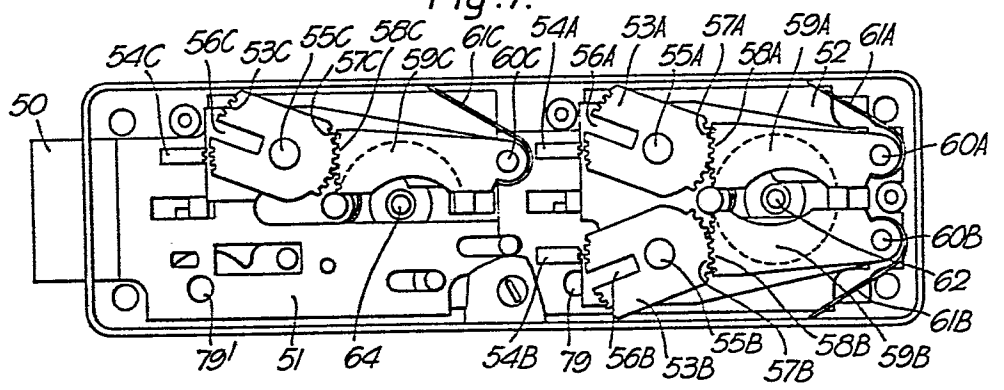


Fig. 3.

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Fig. 7.





DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. ³)
X	DE-C- 737 777 (W. KASPAR) * Complete document *	1-4, 6, 7	E 05 B 35/08
X	--- DE-A-1 703 277 (THEODOR KROMER KG) * Complete document *	1, 2, 6, 7	
A		3	
X	--- US-A-3 978 700 (D.W. GLASS) * Complete document *	1, 2	
Y		9	
Y	--- DE-C- 322 528 (S.J. ARNHEIM) * Figures 1-3; page 1, lines 66-68; page 2, lines 1-4 *	9	
A	--- DE-C- 389 133 (H. HARTLAUB) * Figures 1-3 *	8	E 05 B 35/00

The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 14-08-1984	Examiner KRABEL A.W.G.
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			