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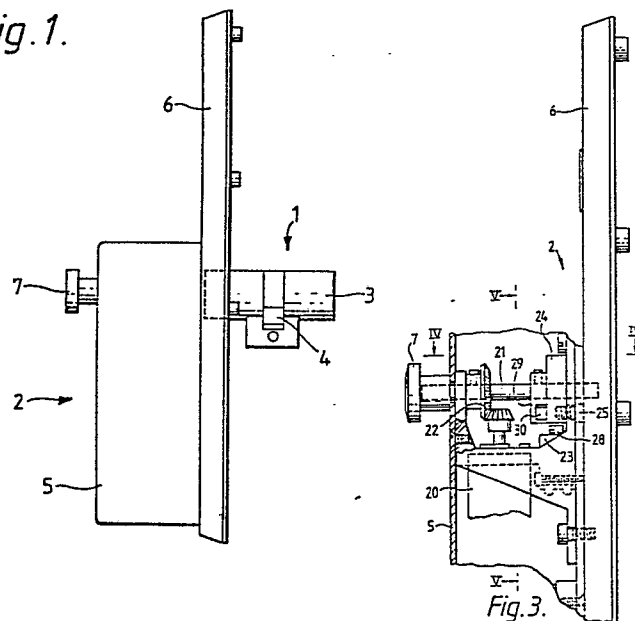
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⑤④ **Motor-driven lock set.**

⑤⑦ 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.

Fig. 1.





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EUROPEAN SEARCH REPORT

Application Number

EP 88 20 0059

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. 4)
D,Y	US-A-4 438 962 (P.G. SOLOVIFF) * Figures 1-4; abstract * ---	1,7	E 05 B 47/00
Y	US-A-3 854 310 (S. PAULL) * Abstract; figures 6,7 * ---	1,7	
P,A	DE-A-3 606 531 (K. FLIETHER GmbH) * Figure 3 * ---	1,3	
A	US-A-3 947 060 (R.D. ZIMMER) ---		
D,A	US-A-4 126 341 (R.L. BRADSTOCK) -----		
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
			E 05 B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 29-08-1988	Examiner CEYTE
CATEGORY OF CITED DOCUMENTS			
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		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	