

(1) Publication number:

0 145 420

A3

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 84308305.6

(51) Int. Cl.4: E 05 B 47/00

(22) Date of filing: 29.11.84

30 Priority: 10.12.83 GB 8333049

43 Date of publication of application: 19.06.85 Bulletin 85/25

(88) Date of deferred publication of search report: 25.06.86

Designated Contracting States:
 AT BE CH DE FR IT LI LU NL SE

71 Applicant: Chubb & Son's Lock and Safe Company Limited 51 Whitfield Street London W1P 6AA(GB)

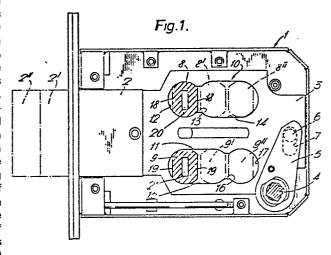
(72) Inventor: Rogers, John
14 Langholm Drive
Heath Hayes Cannock Staffordshire(GB)

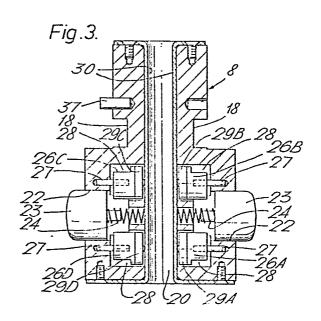
72 Inventor: Robinson, William Keith Brook Cottage Brewood Road Lower Green Coven Wolverhampton(GB)

(74) Representative: Obee, Robert William Manor House Manor Lane Feltham Middlesex TW13 4JQ(GB)

(54) Locks.

(57) 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° permits the bolt to be single-thrown (to 2') 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° now permits the bolt to be double-thrown (to 2') 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.







EUROPEAN SEARCH REPORT

0,1,4,5,4,2,0

EP 84 30 8305

ategory	Citation of document with in of relevant	idication, where appropriate, passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Ci 4)
x	DE-A-2 365 990	(MRT)	1,2,4	E 05 B 47/
	* Whole document	*	7	
A	 US-A-2 503 315 * Whole document		1,8	
				•
				TECHNICAL FIELDS SEARCHED (Int CI 4)
				E 05 B
		•		
				•
				-
			_	
	The present search report has been Place of search	drawn up for all claims Date of completion of the search		Examiner
	THE HAGUE	20-03-1986	•	BOGAERT J.A.M.
X : part Y : part doc A : tech	CATEGORY OF CITED DOCUME icularly relevant if taken alone icularly relevant if combined with ument of the same category nological background written disclosure	F : earlier n	r principle underly atent document, b filing date nt cited in the app nt cited for other r	ut nublished on or