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(54) Optoelectronic lock with optical guides

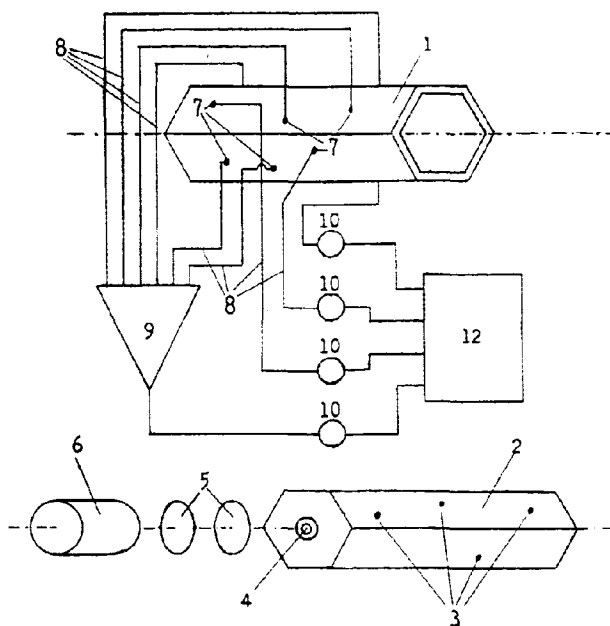
(57) The present invention is an optoelectronic lock using optical guides. It is designed to prevent access to areas, vehicles and machines.

It basically consists of a lock cylinder (24), normally located in the object to be protected, an optoelectronic module (12), one or more optical guide collectors (9), a set of optical guides (8) assembled in a cable (11), a source of electromagnetic radiation (6) and one or more keys (25).

The lock cylinder (24) incorporates a lock-identifier

(1) with N_2 cross keyholes (7), each of which contains the tip of an optical guide (8).

The key (25) is fitted with a key-identifier (2), the shape and dimensions of which are perfectly adapted to those of the lock-identifier (1), and which have a longitudinal keyhole (4) from which a number of radial keyholes (3) branch off; the latter are positioned in such a way as to coincide with some of the cross keyholes (7). The longitudinal keyhole (4) contains the optical guide (82) which branches off through the radial keyholes (3) to form the optical guides (83).

**FIG. 1A****EP 0 816 601 A3**



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EUROPEAN SEARCH REPORT

Application Number
EP 97 67 0003

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.6)
X	CA 1 057 377 A (DIEZ) 26 June 1979 * page 3, line 18 - page 4, line 17; figures 1-4 *	1,3,11	E05B49/00
A	FR 2 452 559 A (CIT-ALCATEL) 24 October 1980 * page 4, line 11 - line 35; figure 3 *	1,3,6,7,11,17	
A	FR 2 293 551 A (GEORGES) 2 July 1976 * page 3, line 6 - line 28; figures 3-5 *	1,11,15	
A	LU 80 434 A (BATAILLE) 7 May 1980 * page 3, line 3 - page 5, line 26; figure 1 *	1,8,13	
A	US 3 582 890 A (RIVERS) 1 June 1971		
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			E05B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 20 August 1998	Examiner Herbelet, J.C.
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			

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