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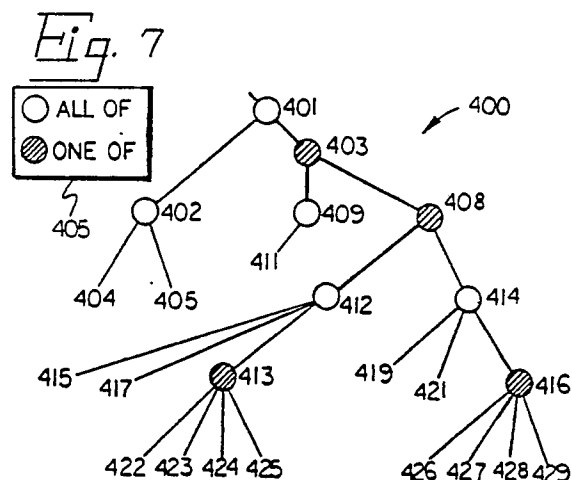
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Electronic locking systems.

Electronic locking system including keys (30) and self-sufficient door locking units (50) both of which carry multiple "zone" codes (F1,F2...). Upon recognition of a key (30) by a door unit (50), the zone codes within the key and door unit are matched against each other so that a match between any one of the key zone codes (Fi) and any one of the door unit zone codes (Fj) will result in an "allow access" decision (366). In the "basic zone" function (350), this decision will permit unlocking of the door (368); in other keying system functions or features (330), additional steps may be required for such unlocking, and the coding of either the key or door unit may be altered (340). The keying system architecture, and method of issuing keys, may be defined in terms of a directed acyclic "door group" graph (400) or equivalent data structure, door groups (401,402...) being defined hierarchically as door units, groups of door units, or groups of door groups. Each node of this graph (400) is identified with a given door group and, except for terminal modes (404,405,415,417,422-429) (which are typically identified with given door units), each such node has an associated "choice rule" (450). In issuing keys (30) the key issuing operator, working from a given door group (401) as the starting point, traverses subordinate nodes (402,403...) subject to limitations and decisions imposed by the choice rules (450), until only terminal nodes (404,405....) remain -- thereby

defining the coding of a particular key.





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)
A	FR-A-2 531 128 (GENEST) * Figure 1-5; page 9, line 29 - page 18, line 22 * ---	1,3,4	E 05 B 49/00 G 07 C 9/00
A	FR-A-2 370 308 (MONITRON INDUSTRIES) * Figures 1-3; page 3, line 17 - page 11, line 6 * ---	1,3,4,9 ,10	
A	GB-A-2 118 614 (GENEST) * Figures 1-2; page 2, line 55 - page 4, line 70 * -----	1,9,10	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			E 05 B G 07 C
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 27-09-1988	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	