



(12)

## EUROPEAN PATENT APPLICATION

(21) Application number: 83304919.0

(51) Int. Cl.4: G 07 C 9/00  
G 07 C 1/14

(22) Date of filing: 25.08.83

(30) Priority: 27.08.82 US 412269

(71) Applicant: Figgie International Inc.  
4420 Sherwin Road  
Willoughby Ohio 44094(US)

(43) Date of publication of application:  
18.04.84 Bulletin 84/16

(72) Inventor: Khandwala, Bhupendra J.  
595 South College Avenue  
Claremont California 91711(US)

(88) Date of deferred publication of search report: 15.01.86

(72) Inventor: Young, Jorge A.  
2134 Capuchin Way  
Claremont California 91711(US)

(84) Designated Contracting States:  
BE DE FR GB IT

(74) Representative: Rushton, Ronald et al,  
SOMMERSVILLE & RUSHTON 11 Holywell Hill  
St. Albans Hertfordshire AL1 1EZ(GB)

(54) Card reader for security system.

(57) There is disclosed herein an improved card reader for a security system utilizing a central controller and a plurality of card readers for controlling traffic through critical doors in a facility. The improved reader includes means for improving the system throughput by buffer storing large numbers of transactions all occurring within a short time for time clock functions in time and attendance applications for hourly employees. Also disclosed are means for conditioned emergency responses to sensed changes in status of alarm contacts coupled to the reader and located in the vicinity of the reader within 2 miles. There is also disclosed means for temporarily storing transaction information for transactions made during periods when communications with the controller are lost. During such degraded mode operation, access is granted to cardholders with the proper system code and their ID code and the time of the transaction are stored in a buffer. When communications are restored, the transactions saved in the buffer are sent to the controller.

EP 0 105 594 A3

...

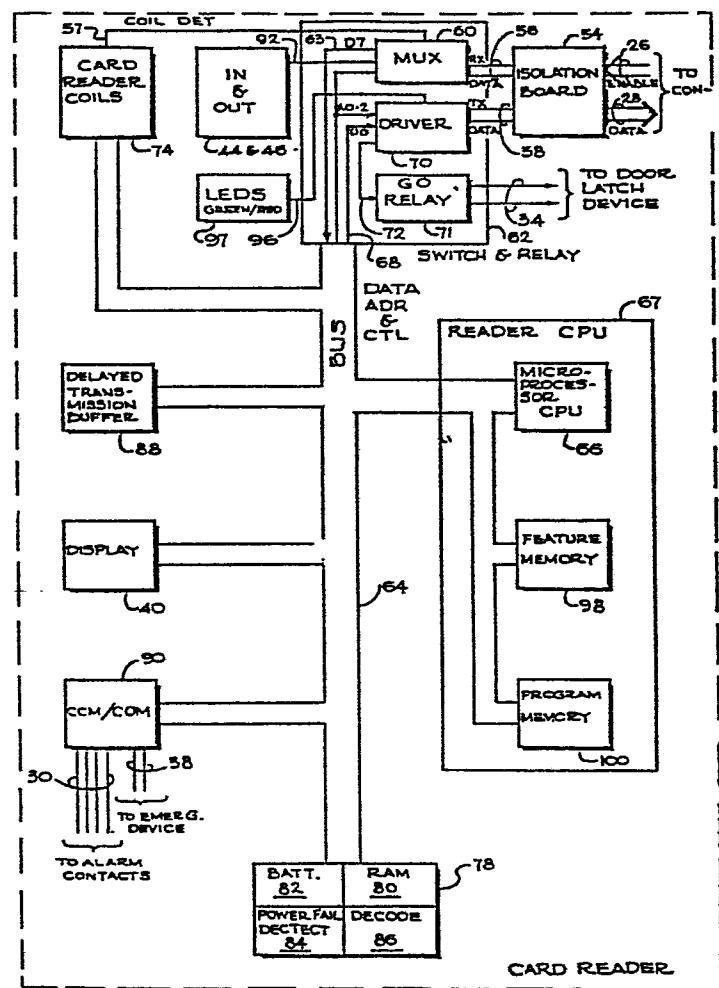


FIG. 2



EP 83 30 4919

DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)
Category	Citation of document with indication, where appropriate, of relevant passages		
X	TN NACHRICHTEN TELEFONBAU UND NORMALZEIT, no. 84, 1982, pages 47-56, Dreieich, DE; W.D. HAASS et al.: "Zeiterfassung und Zutrittskontrolle mit dem TN-Datensystem Tenodat 9020" * Pages 52,53 *	1	G 07 C 9/00 G 07 C 1/14
A	Idem	8-10, 14-16	
D, A	---		
	US-A-4 218 690 (B.D. ULCH et al.) * Column 3, line 37 - column 4, line 47 *	2,4,8	
A	---		
A	US-A-3 969 584 (C.J. MILLER et al.) * Column 2, lines 7-24 *	1	TECHNICAL FIELDS SEARCHED (Int. Cl. 3)
A	---		
A	EP-A-0 016 276 (KRONOS INC.) * Page 5, line 28 - page 8, line 10; page 28, line 4 - page 29, line 3 *	1-16	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 19-09-1985	Examiner EXELMANS U.G.J.R.	
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			