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

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

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

(74) Representative: **Rushton, Ronald et al,**
SOMMERVILLE & 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.

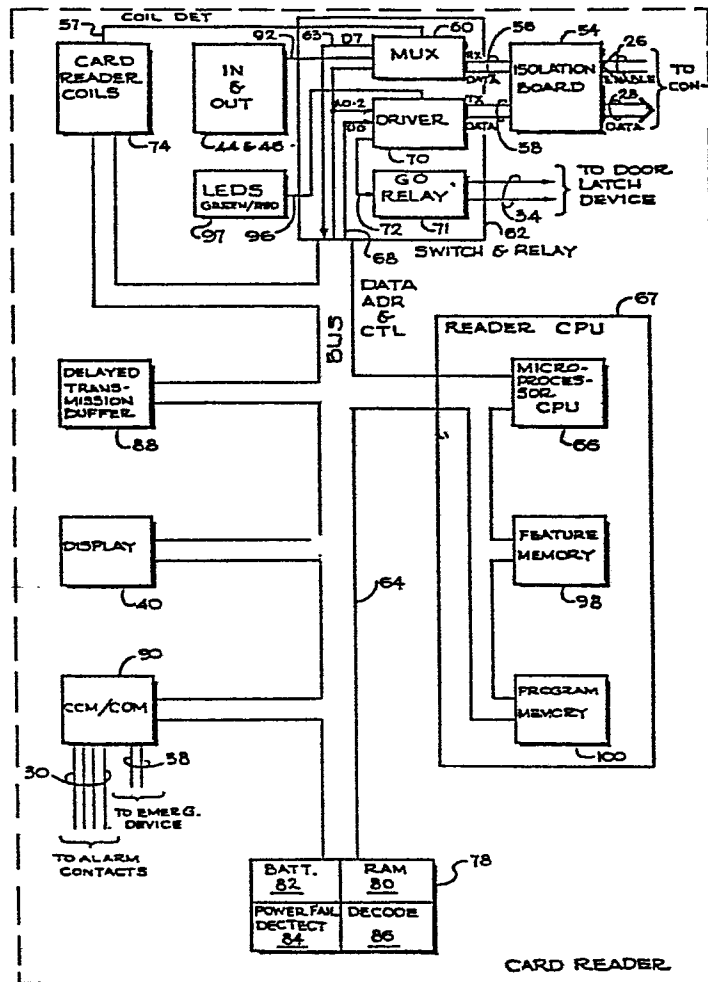


FIG. 2



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. 3)
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	--- US-A-3 969 584 (C.J. MILLER et al.) * Column 2, lines 7-24 *	1	TECHNICAL FIELDS SEARCHED (Int. Cl. 3)
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

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