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# EUROPEAN PATENT APPLICATION

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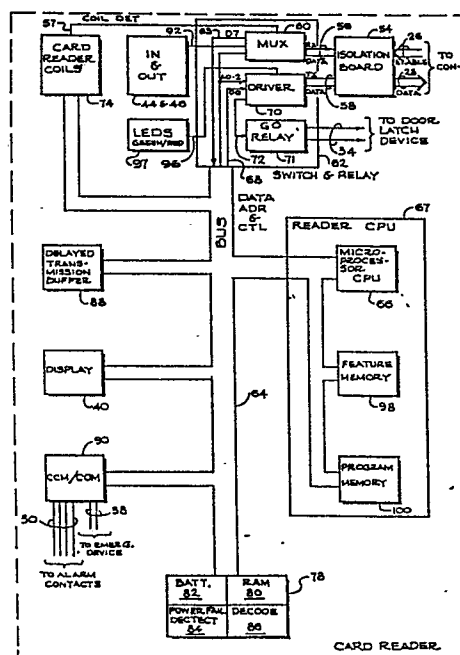
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54 **Card reader for security system.**

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.





European Patent  
Office

# EUROPEAN SEARCH REPORT

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Application number

EP 83 30 4918

## 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)
A	EP-A-0 016 276 (KRONOS INC.)  * Page 28, line 3 - page 29, line 3 *	1-3,5-14	G 07 C 9/00 G 07 C 1/14
A,D	--- US-A-4 218 690 (B.D. ULCH) * Column 3, line 37 - column 4, line 46 *	1	
A	--- TN NACHRICHTEN TELEFONBAU UND NORMALZEIT, vol. 84, 1982, pages 47-56, Dreieich, DE; W.D. HAASS et al.: "Zeiterfassung und Zutrittskontrolle mit dem TN-Datensystem Tenodat 9020" * Page 53, second paragraph; page 54, first paragraph *	1	
A	--- TN NACHRICHTEN TELEFONBAU UND NORMALZEIT, vol. 77, 1976, pages 23-28, Dreieich, DE; A. DEUTSCHMANN et al.: "Tenodat 7000 - Ein rechnergesteuertes Datenerfassungssystem" * Page 25, left-hand column, last paragraph - right-hand column, first paragraph *  --- -/-	1	TECHNICAL FIELDS SEARCHED (Int. Cl. 3)  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  
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D : document cited in the application  
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& : member of the same patent family, corresponding document



DOCUMENTS CONSIDERED TO BE RELEVANT			Page 2
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)
A	TN NACHRICHTEN TELEFONBAU UND NORMALZEIT, vol. 75, 1974, pages 16-22, Dreieich, DE; H. FUHRMANN et al.: "Fernsprechen und Datenverkehr - ein gemeinsames Kommunikationssystem" * Page 20, last paragraph - page 21, last paragraph *  -----	1, 11	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 3)
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<b>CATEGORY OF CITED DOCUMENTS</b>			
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	

