United States Patent [19]

Younger

[11] **Patent Number: 4,874,935**

[45] **Date of Patent: Oct. 17, 1989**

[54] **SMART CARD APPARATUS AND METHOD OF PROGRAMMING SAME**

[75] Inventor: **Thomas L. Younger**, Minnetonka, Minn.

[73] Assignee: **Data Card Coprporation**, Minneapolis, Minn.

[21] Appl. No.: **253,873**

[22] Filed: **Oct. 5, 1988**

Related U.S. Application Data

[63] Continuation of Ser. No. 838,095, Mar. 10, 1986, abandoned.

[51] **Int. Cl.**[4] **G06K 19/06**

[52] **U.S. Cl.** **235/492**; 235/379; 235/375

[58] **Field of Search** 235/375, 379, 380, 441, 235/492

[56] **References Cited**

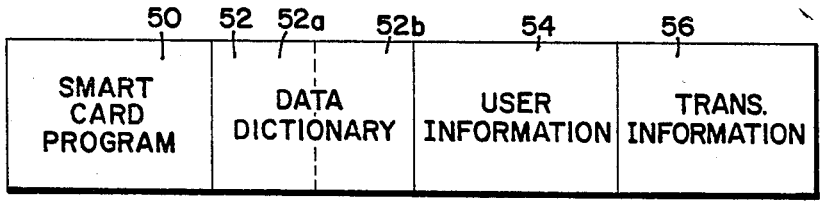
U.S. PATENT DOCUMENTS

3,971,916	7/1976	Moreno .	
4,001,550	1/1977	Schatz .	
4,007,355	2/1977	Moreno .	
4,092,524	5/1978	Moreno .	
4,102,493	7/1978	Moreno .	
4,442,345	4/1984	Mollier et al. .	
4,471,216	9/1984	Herve .	
4,498,000	2/1985	Decavele et al. .	
4,544,833	10/1985	Ugon .	
4,568,824	2/1986	Gareis et al. .	
4,572,946	2/1986	Schrenk .	
4,575,621	3/1986	Dreifus .	
4,578,573	3/1986	Fues et al. .	
4,580,041	4/1986	Walton .	
4,590,365	5/1986	Okada	235/492 X
4,591,974	5/1986	Dornbush et al.	364/200
4,650,975	3/1987	Kitchener .	
4,650,981	3/1987	Foletta	235/492 X
4,654,512	3/1987	Gardosi .	
4,667,088	5/1987	Kramer et al. .	
4,683,372	7/1987	Matsumoto	235/380 X
4,697,073	9/1987	Hara .	
4,701,601	10/1987	Francini et al. .	
4,709,137	11/1987	Yoshida .	
4,736,094	4/1988	Yoshida .	

Primary Examiner—David L. Trafton

Attorney, Agent, or Firm—Merchant, Gould, Smith, Edell, Welter & Schmidt

[57] **ABSTRACT**

A smart card (**20**) including a microcomputer (**40**). The microcomputer (**40**) being programmed with a smart card control program (**50**) and a data dictionary (**52**) defining the data to be stored in the microcomputer.

13 Claims, 2 Drawing Sheets