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**United States Patent** [19]  
**Pinault**

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[45] **Date of Patent:** **Jun. 15, 1999**

[54] **METHOD OF MAKING THE USE OF A TERMINAL OF A CELLULAR MOBILE RADIO SYSTEM MORE SECURE, AND CORRESPONDING TERMINAL AND USER CARD**

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[73] Assignee: **Alcatel Mobile Phones**, Paris, France  
[21] Appl. No.: **08/777,734**  
[22] Filed: **Dec. 20, 1996**

[30] **Foreign Application Priority Data**  
Dec. 21, 1995 [FR] France ..... 95 15283

[51] **Int. Cl.**<sup>6</sup> ..... **H04Q 7/32**  
[52] **U.S. Cl.** ..... **455/558; 455/410; 455/411**  
[58] **Field of Search** ..... 455/410, 411, 455/557, 558; 379/114, 143, 357; 235/380, 382; 380/21, 28, 30, 23, 3

[56] **References Cited**

**U.S. PATENT DOCUMENTS**

4,736,419	4/1988	Roe	380/23
5,390,252	2/1995	Suzuki et al.	455/411
5,444,764	8/1995	Galecki	455/558
5,600,708	2/1997	Meche et al.	455/411
5,604,787	2/1997	Kotzin et al.	455/558
5,617,470	4/1997	Depasquale	379/114
5,661,806	8/1997	Nevoux et al.	380/25
5,675,607	10/1997	Alesio et al.	379/114
5,742,910	4/1998	Gallant et al.	455/558
5,748,720	5/1998	Loder	455/407
5,761,624	6/1998	Mooney et al.	455/558

**FOREIGN PATENT DOCUMENTS**

03 01 740 A2 2/1989 European Pat. Off. .

**OTHER PUBLICATIONS**

J. K. Omura, "A computer dial access system based on public-key techniques", *IEEE Communications Magazine*, Jul. 1987, vol. 25, No. 7, Jul. 1987, ISSN 0163-6804, pp. 73-79.

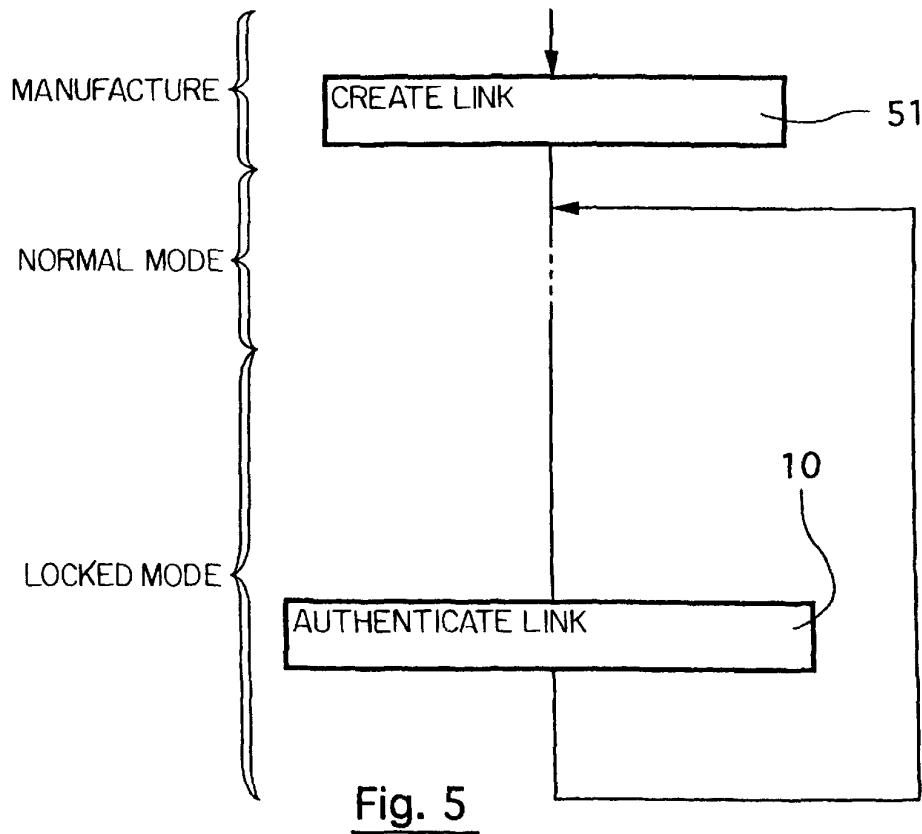
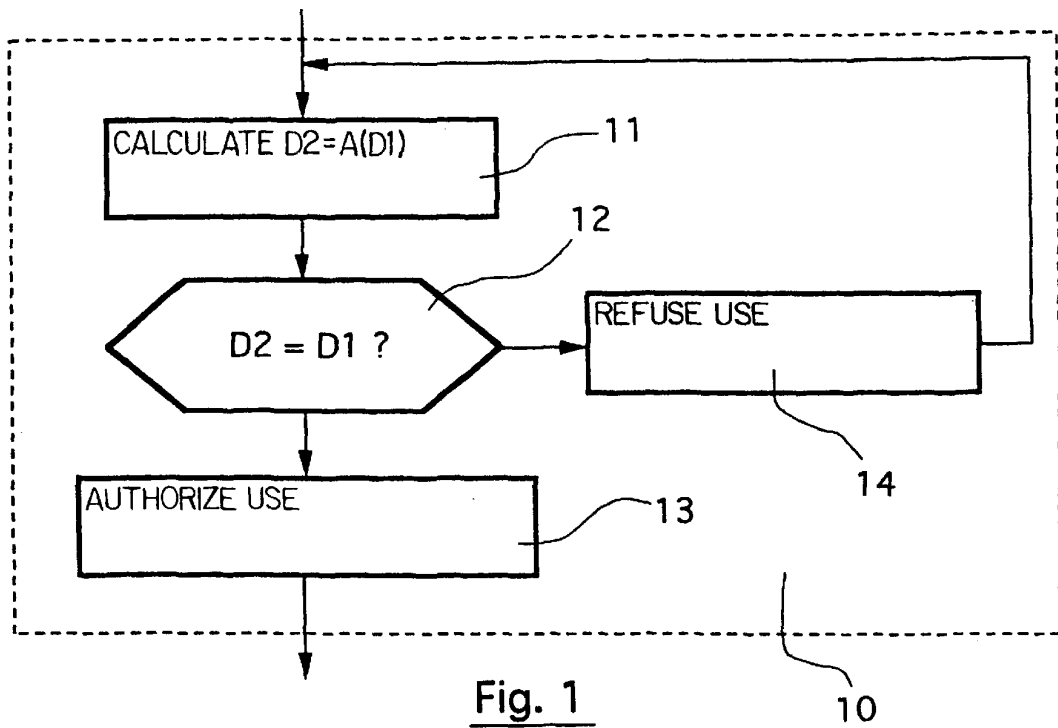
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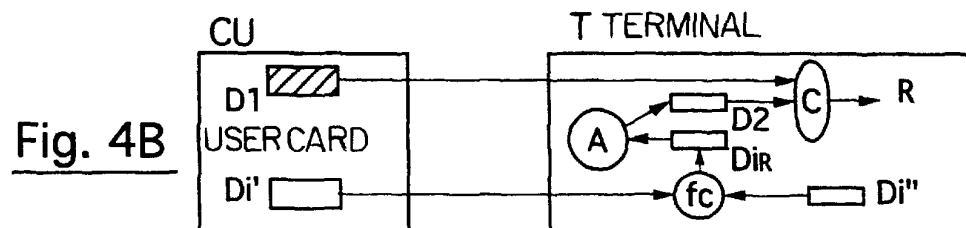
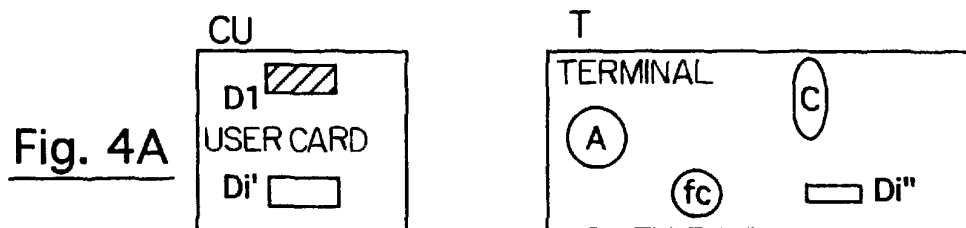
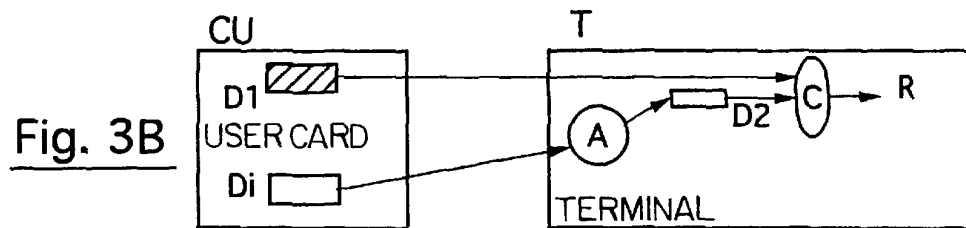
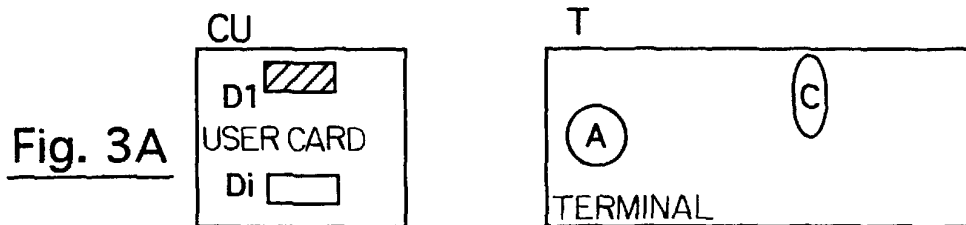
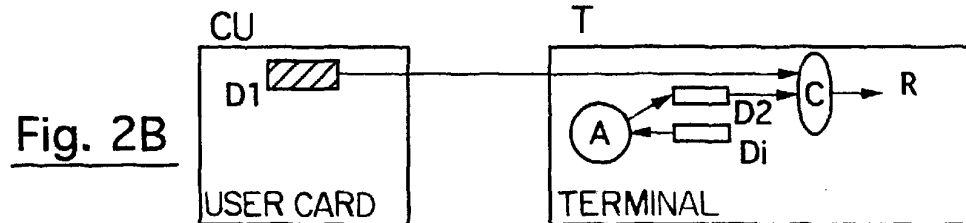
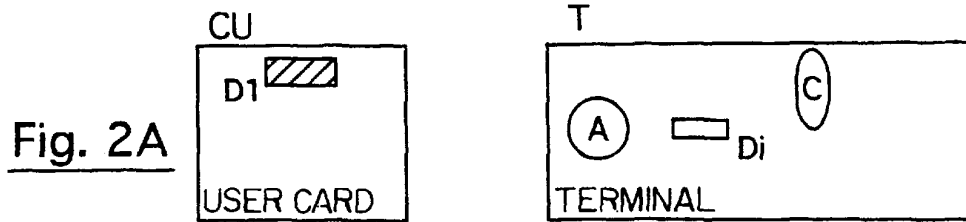
[57] **ABSTRACT**

A terminal of a cellular mobile radio system cooperates with a user card and is able to operate in at least two separate operating modes, namely a normal mode in which it can be used with any user card and a locked mode in which it can be used only with the user card to which it is locked, the latter constituting a linked user card. To make use of the terminal more secure, first locking data is stored in a memory area of the linked user card and, in the locked mode, the method includes a phase of authentication by the terminal of the user card with which it is cooperating. In the authentication phase second locking data is calculated in the terminal from the intermediate data read in a memory area accessible to the terminal using a calculation function specific to the terminal, and the first and second locking data is compared in the terminal and use of the terminal is authorized only in the event of equality, that is to say if the user card with which the terminal is cooperating is authenticated as the linked user card.

**21 Claims, 5 Drawing Sheets**

**MICROSOFT CORP.**  
**EXHIBIT 1011**





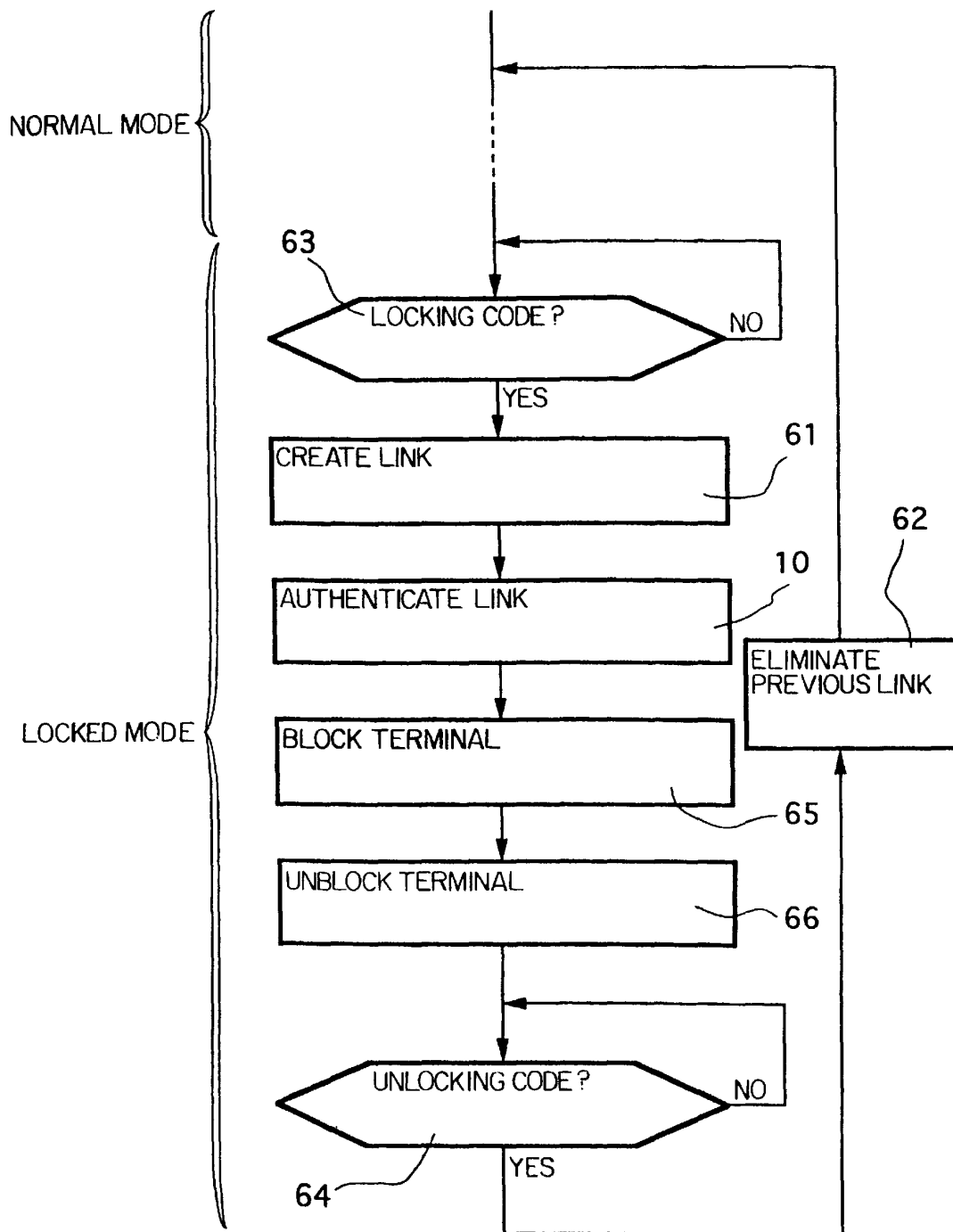


Fig. 6

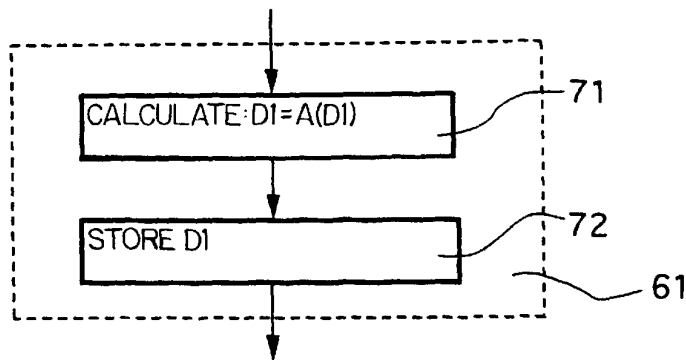


Fig. 7

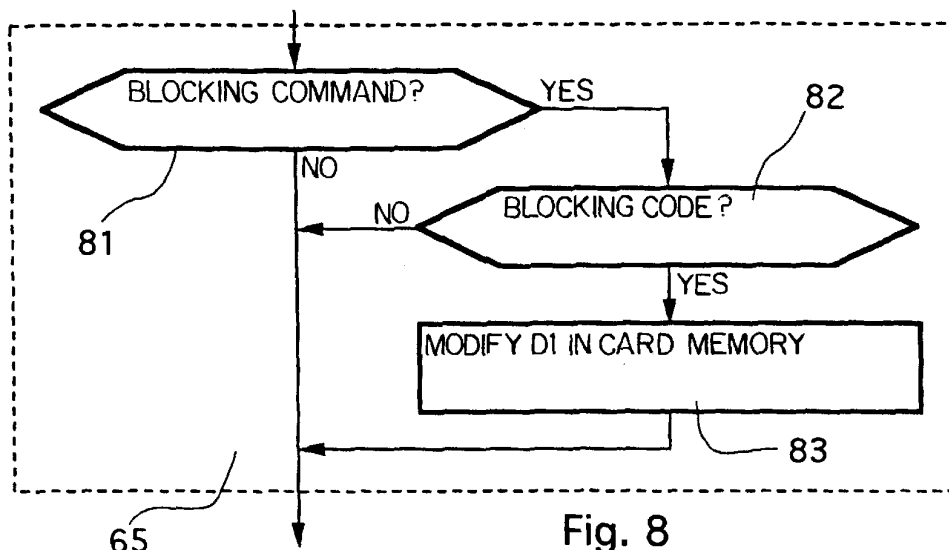


Fig. 8

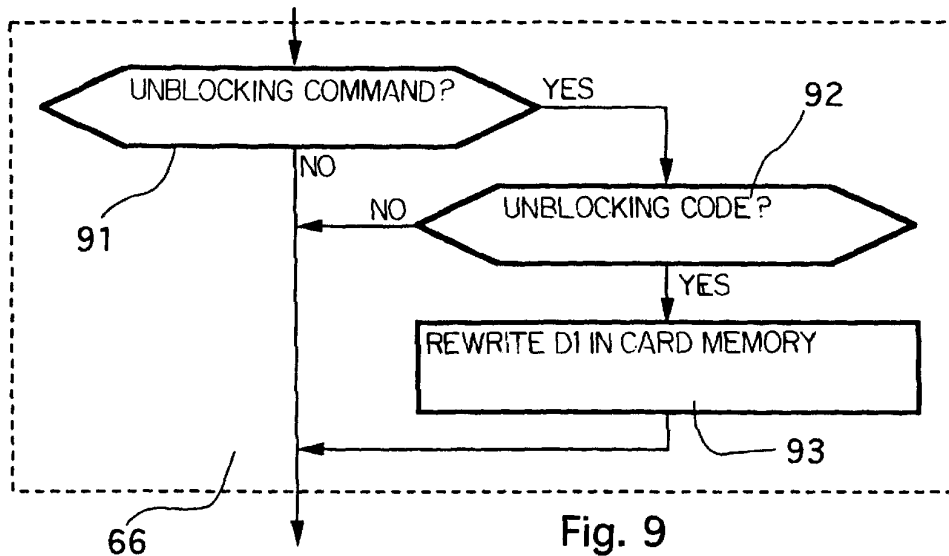


Fig. 9

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