

United States Patent [19]

US005940510A

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[45] **Date of Patent:** *Aug. 17, 1999

Curry et al.

[54] TRANSFER OF VALUABLE INFORMATION BETWEEN A SECURE MODULE AND ANOTHER MODULE

- [75] Inventors: Stephen M. Curry, Dallas; Donald W. Loomis, Coppell; Michael L. Bolan, Dallas, all of Tex.
- [73] Assignee: Dallas Semiconductor Corporation, Dallas, Tex.
- [*] Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).
- [21] Appl. No.: 08/594,975
- [22] Filed: Jan. 31, 1996
- [51] Int. Cl.⁶ H04L 9/00

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Primary Examiner-Salvatore Cangialosi

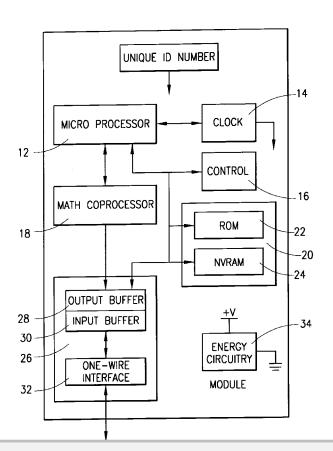
Attorney, Agent, or Firm-Jenkens & Gilchrist

[57] ABSTRACT

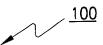
The present invention rotates to system, apparatus and method for communicating valuable data from a portable module to another module via an electronic device. More specifically, the disclosed system, apparatus and method are useful for enabling a user to fill a portable module with a cash equivalent and to spend the cash equivalent at a variety of locations. The disclosed system incorporates an encryption/decryption method.

6 Claims, 8 Drawing Sheets





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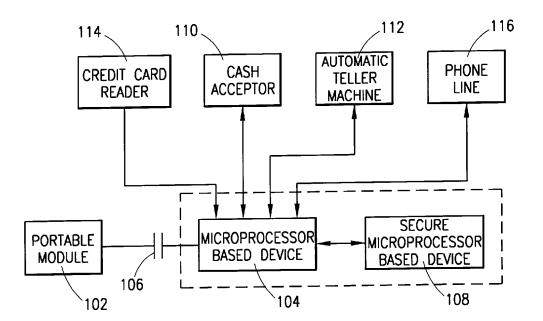


FIG. 1

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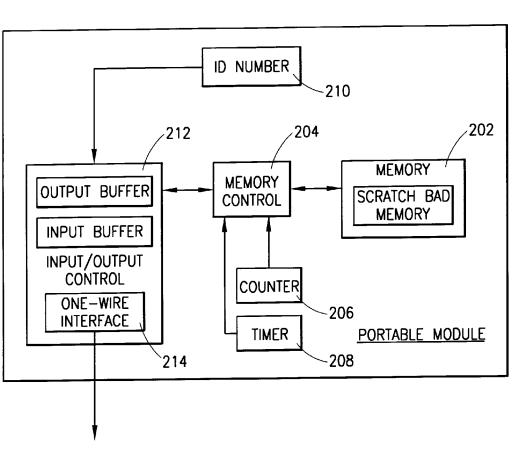
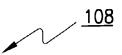


FIG. 2

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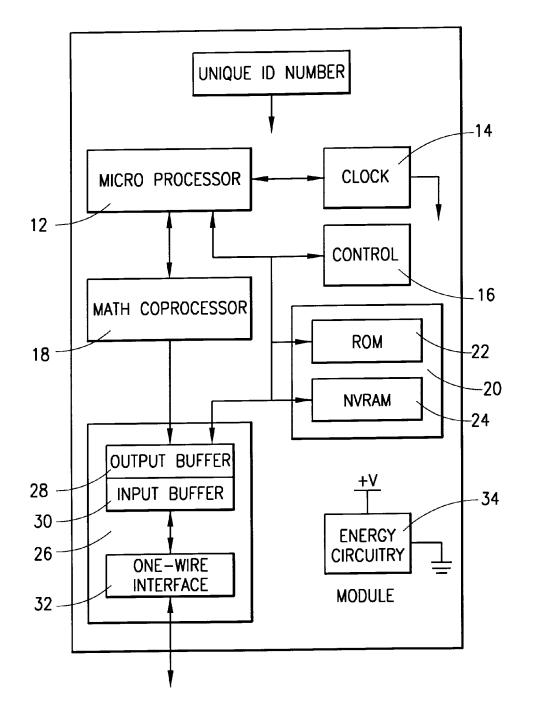
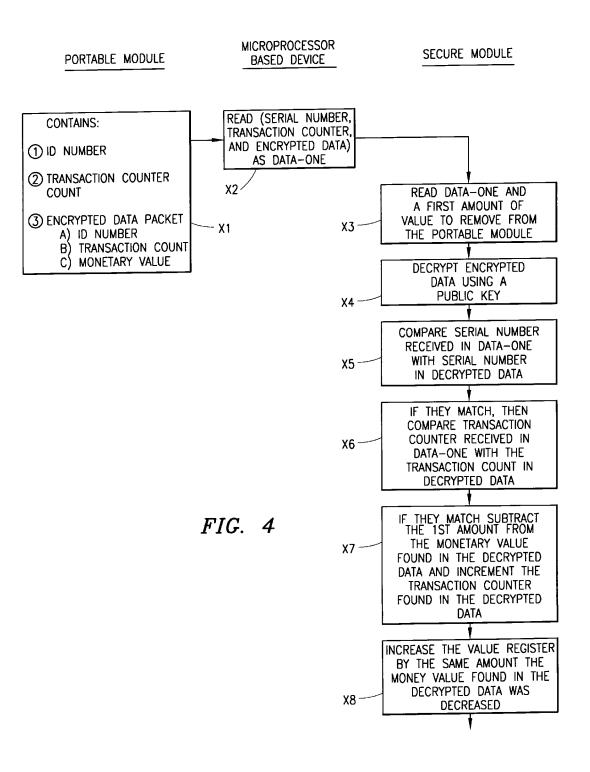


FIG. 3



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