



United States Patent [19]
Curry et al.

[11] **Patent Number:** **5,949,880**
[45] **Date of Patent:** **Sep. 7, 1999**

[54] **TRANSFER OF VALUABLE INFORMATION BETWEEN A SECURE MODULE AND ANOTHER MODULE**
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[73] Assignee: **Dallas Semiconductor Corporation**, Dallas, Tex.

[21] Appl. No.: **08/978,798**
[22] Filed: **Nov. 26, 1997**

Related U.S. Application Data

[62] Division of application No. 08/594,975, Jan. 31, 1996.
[51] **Int. Cl.**⁶ **H04L 9/00**
[52] **U.S. Cl.** **380/24; 380/25; 705/39; 705/42**
[58] **Field of Search** **380/23, 24, 25; 705/39, 40, 42**

[56] **References Cited**

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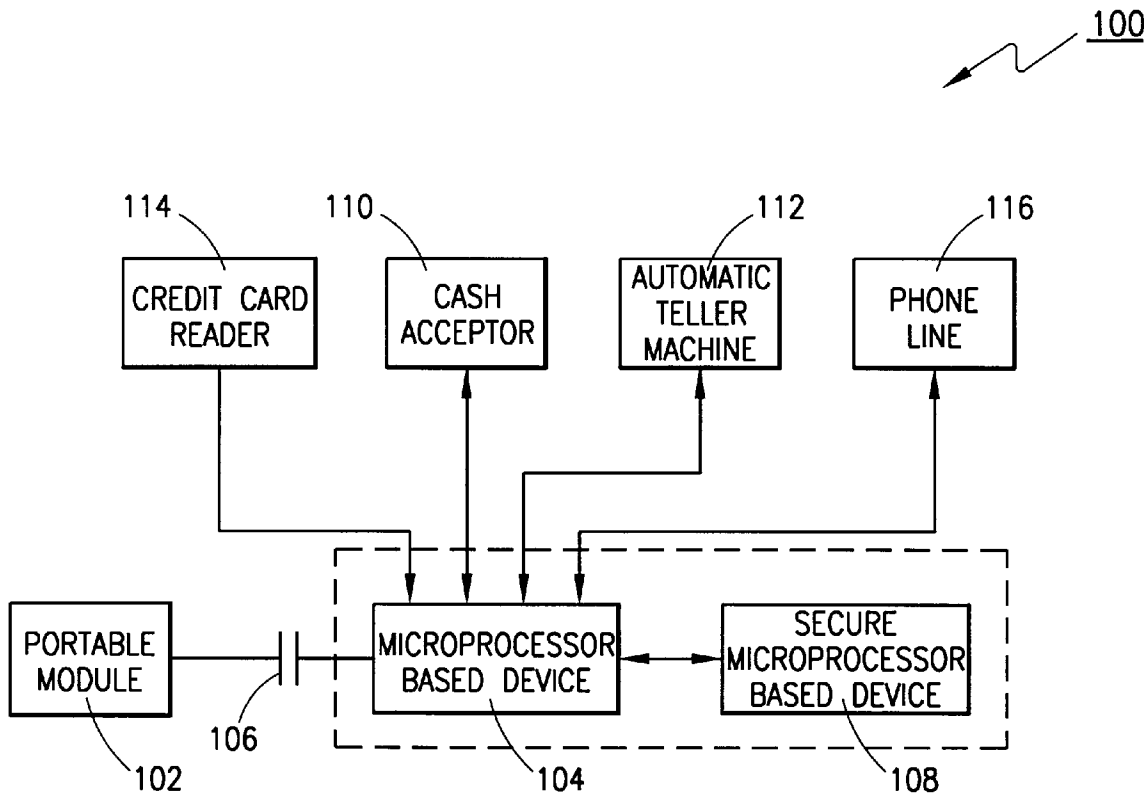
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Primary Examiner—Thomas H. Tarcza
Assistant Examiner—Carmen D. White
Attorney, Agent, or Firm—Jenkins & Gilchrist

[57] **ABSTRACT**

The present invention relates 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



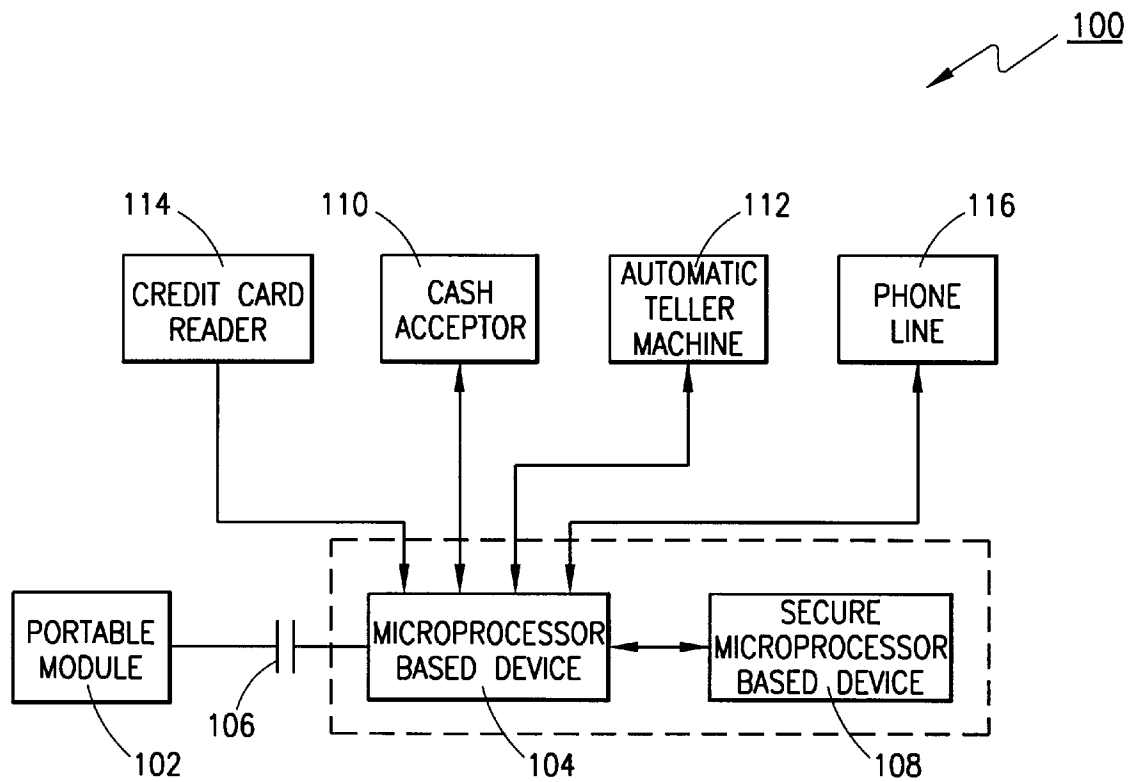


FIG. 1

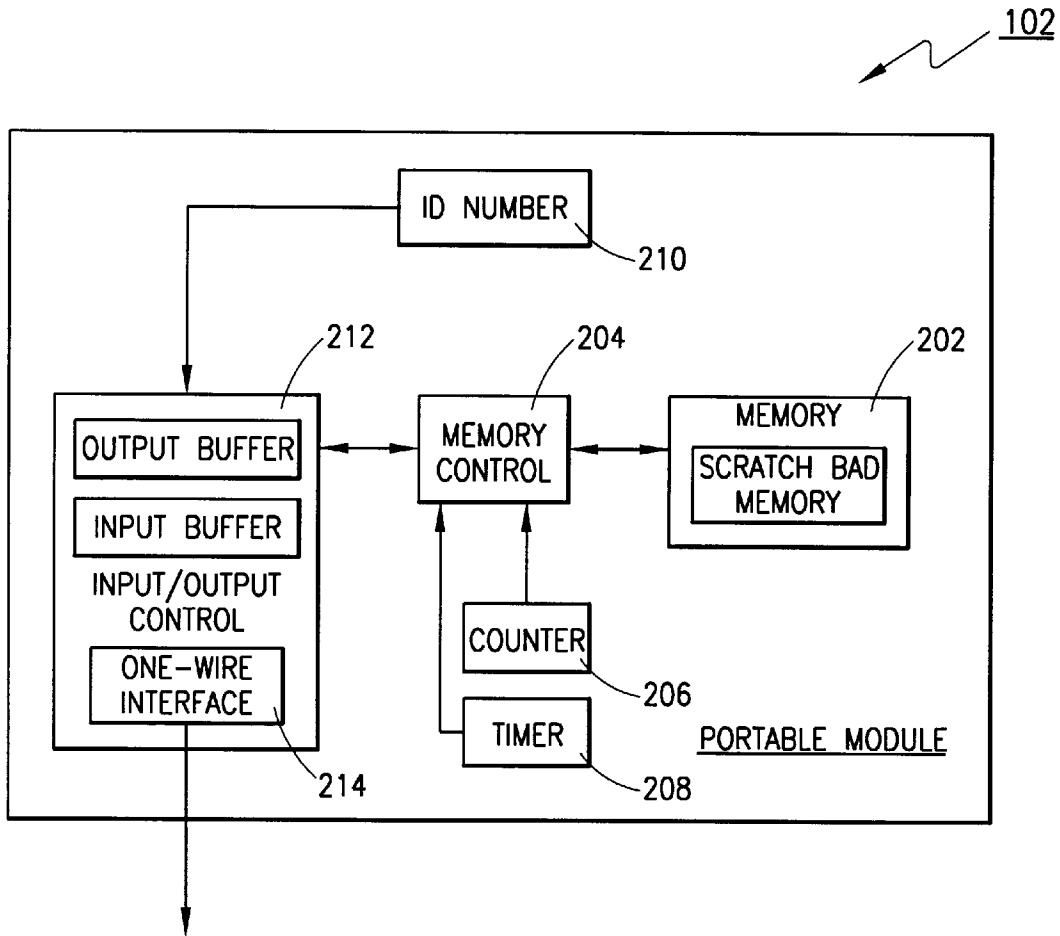


FIG. 2

108 ↗

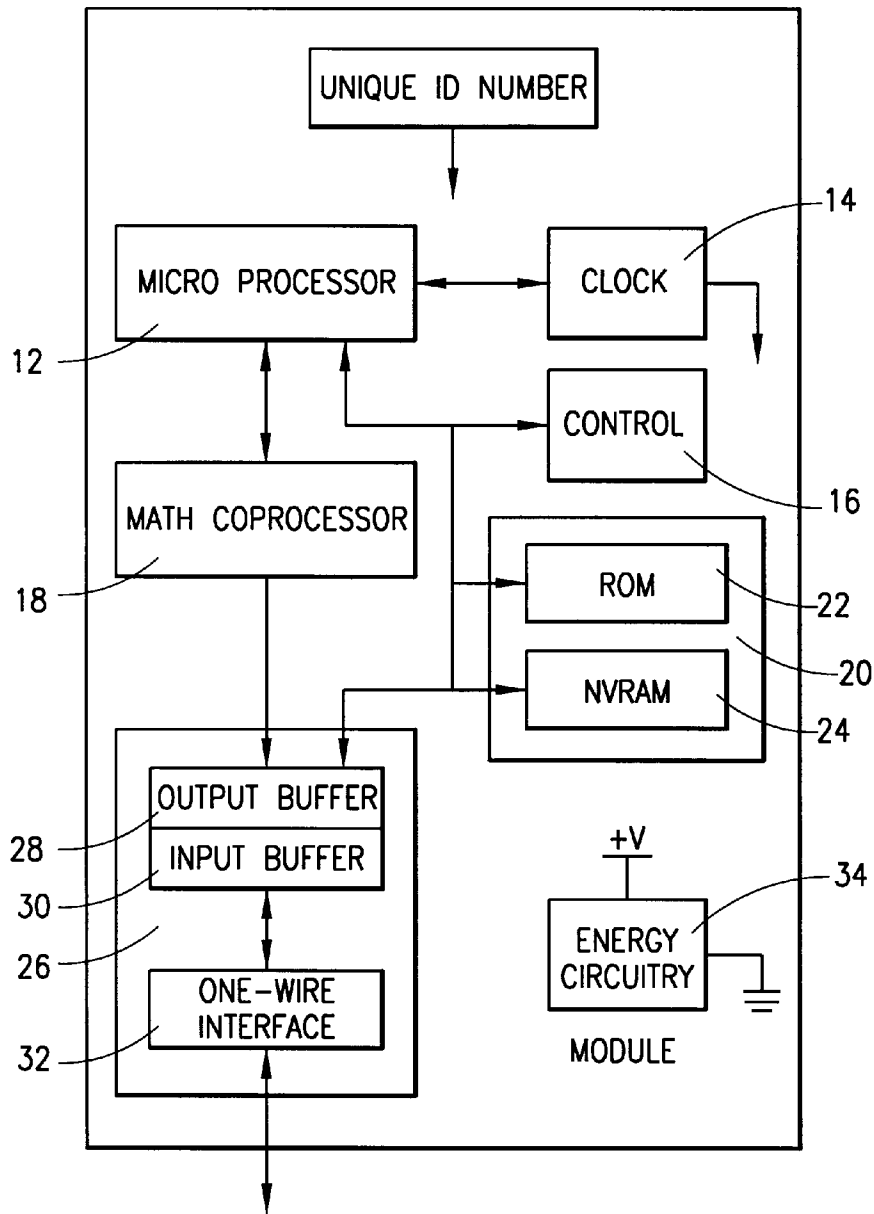


FIG. 3

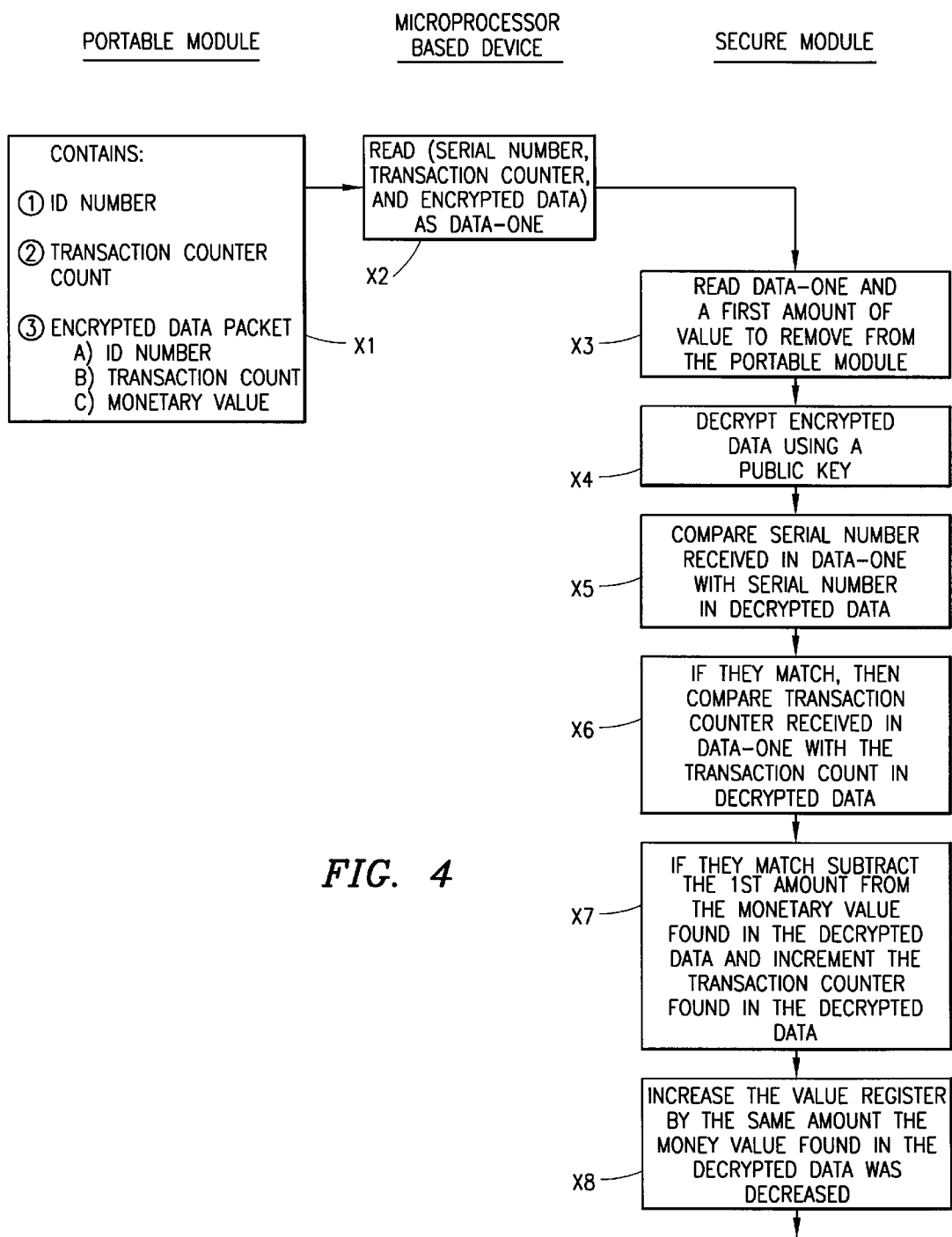


FIG. 4

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