



US005949880A

United States Patent [19]

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Curry et al.

[45] Date of Patent: **Sep. 7, 1999**

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

[56] **References Cited**

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[73] Assignee: **Dallas Semiconductor Corporation**, Dallas, Tex.

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[21] Appl. No.: **08/978,798**

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Attorney, Agent, or Firm—Jenkins & Gilchrist

[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**

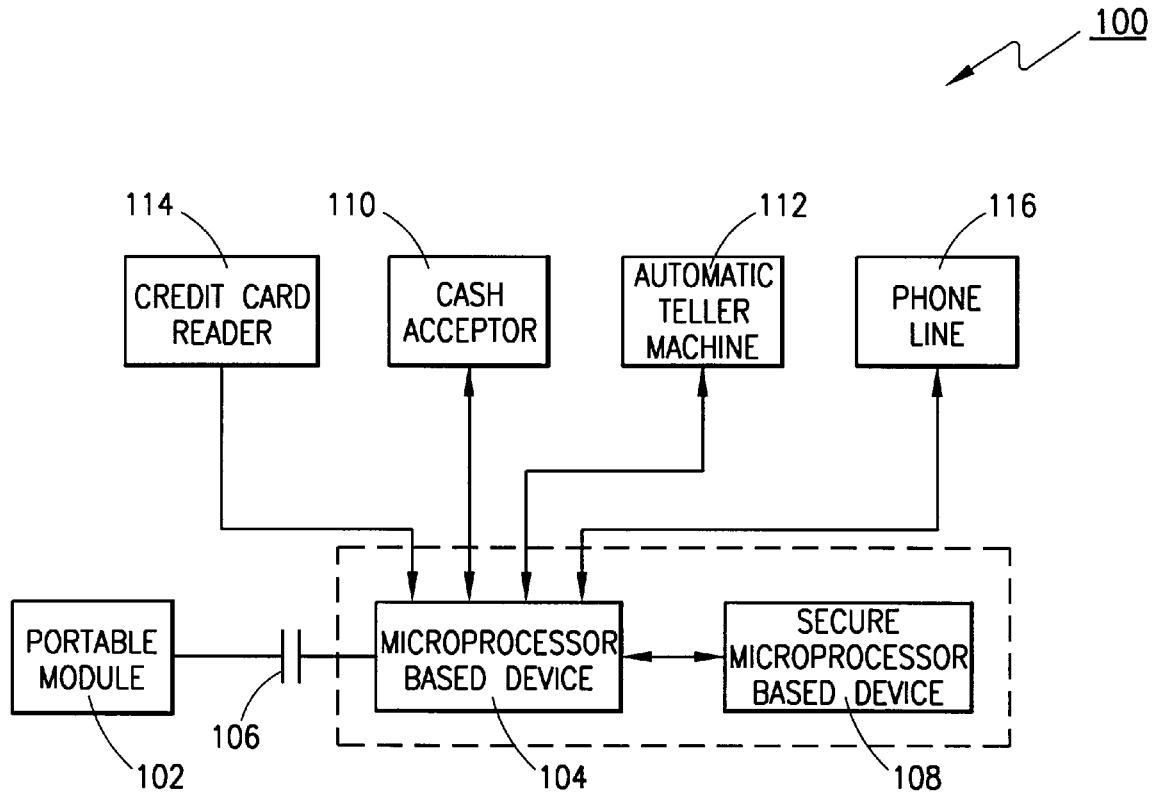
[52] **U.S. Cl.** **380/24; 380/25; 705/39; 705/42**

[58] **Field of Search** **380/23, 24, 25; 705/39, 40, 42**

[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



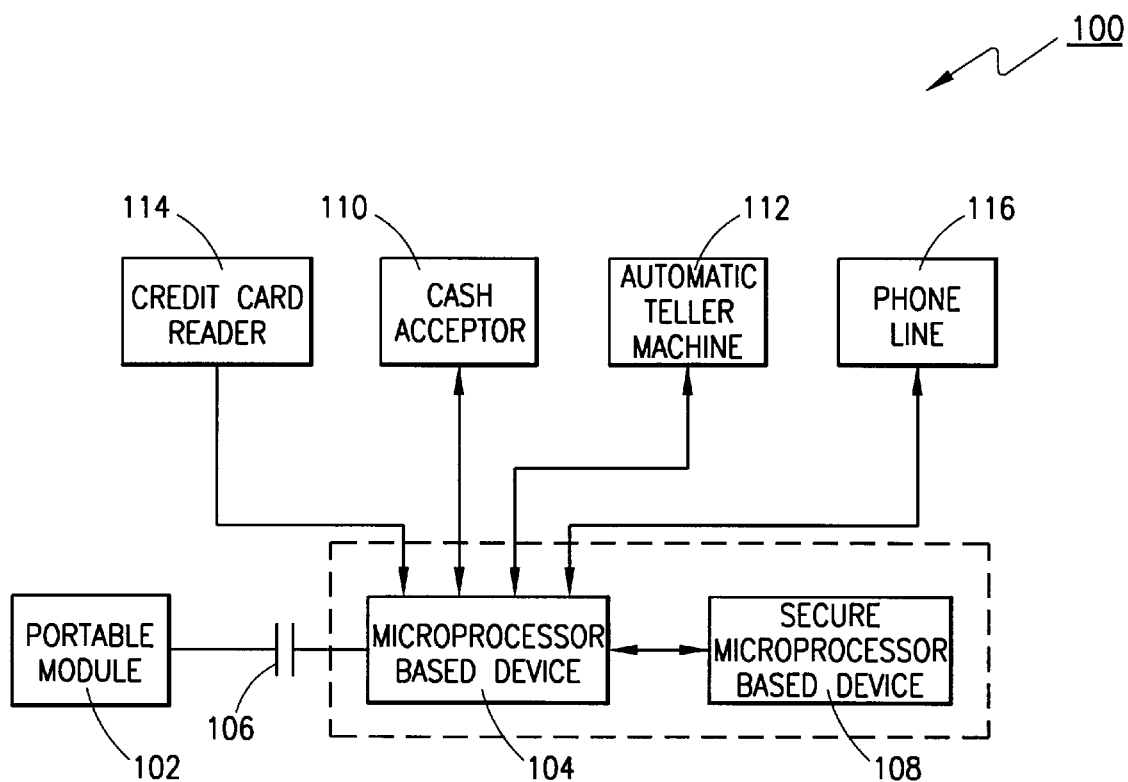


FIG. 1

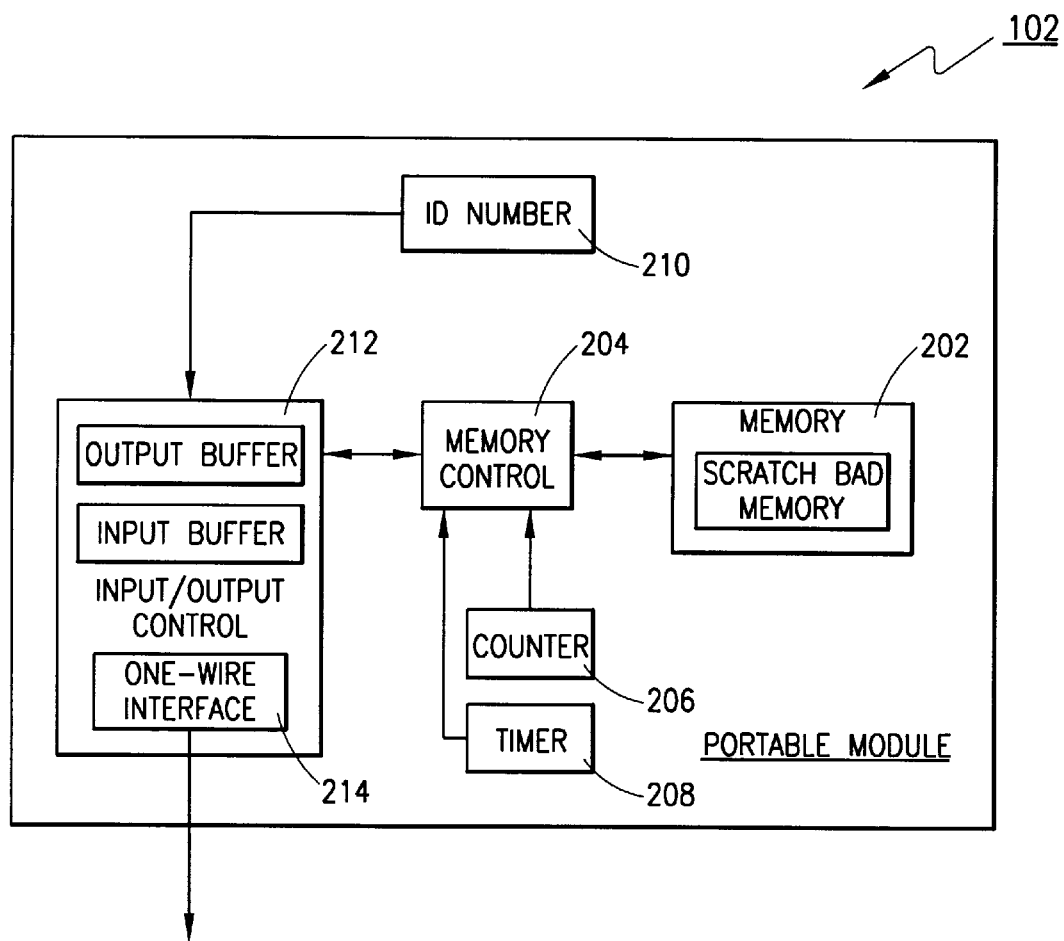


FIG. 2

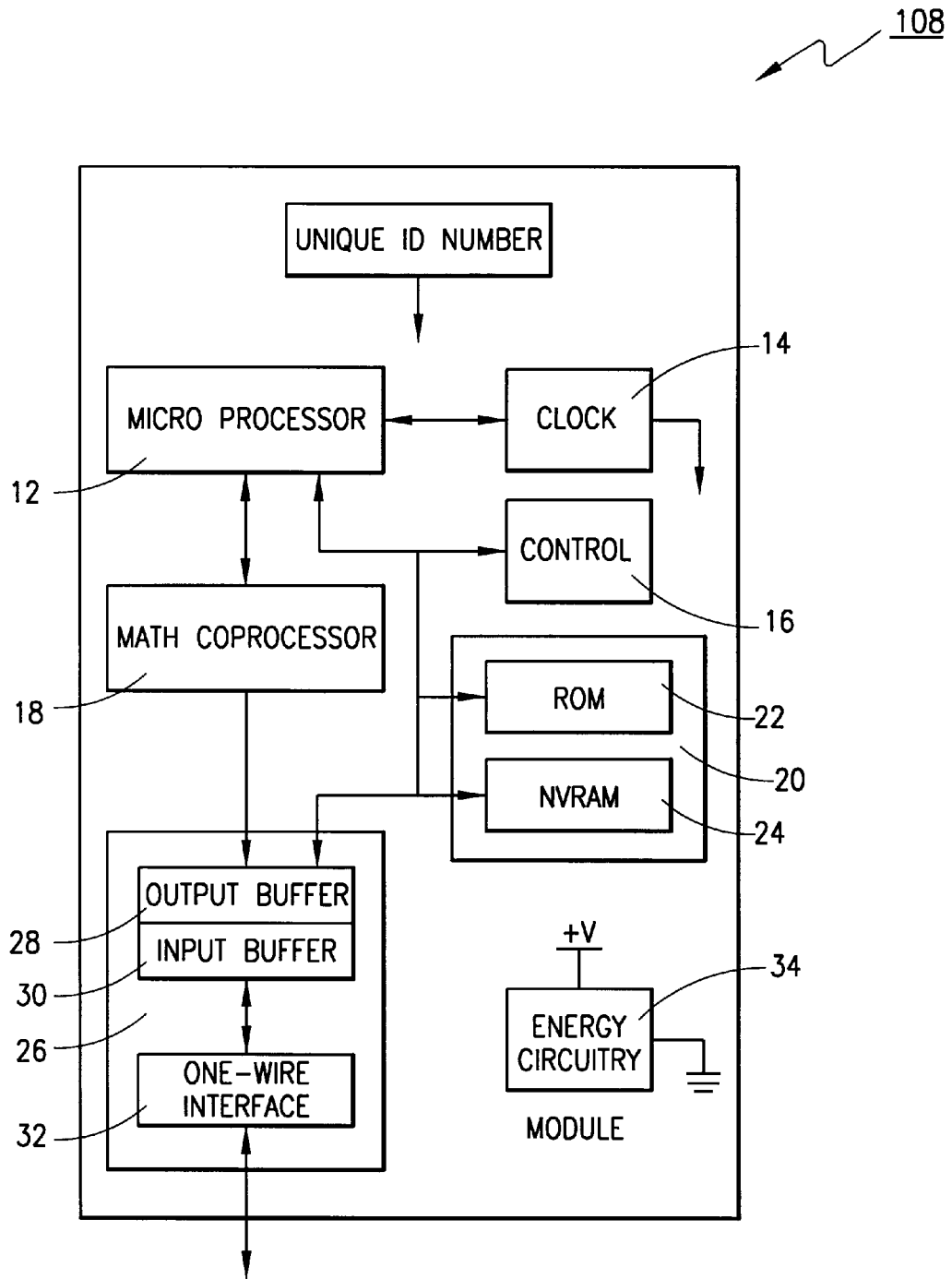


FIG. 3

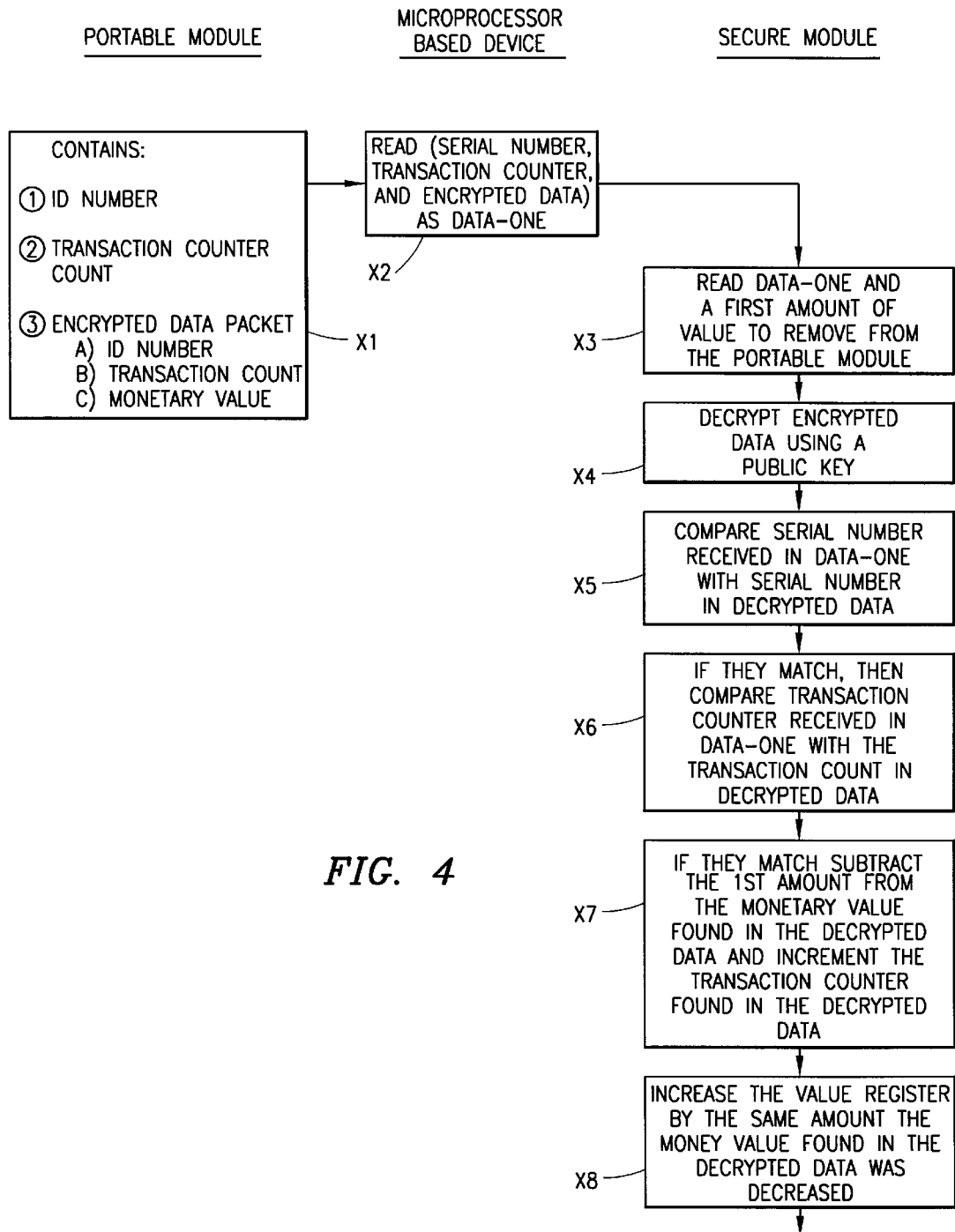


FIG. 4

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