

- [54] **INFORMATION MANAGEMENT AND SECURITY SYSTEM**
- [75] **Inventor:** **Virupax M. Nerlikar**, Plano, Tex.
- [73] **Assignee:** **Texas Instruments Incorporated**, Dallas, Tex.
- [21] **Appl. No.:** **283,081**
- [22] **Filed:** **Jul. 29, 1994**
- [51] **Int. Cl.⁶** **H04L 9/00**
- [52] **U.S. Cl.** **380/25; 380/23; 340/825.34**
- [58] **Field of Search** **380/23-25; 340/825.34**

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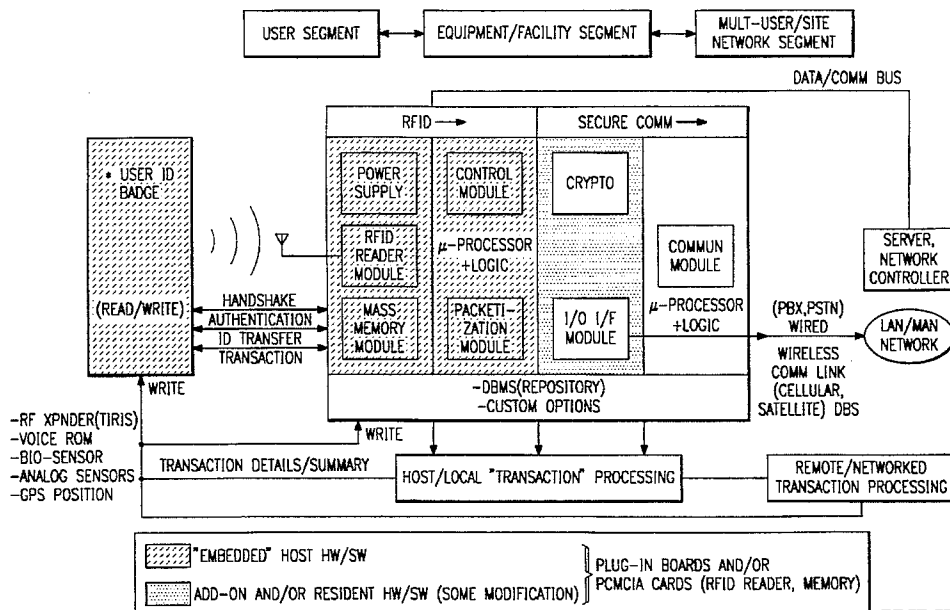
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[57] **ABSTRACT**

A closed loop, (networked) information management and security system which provides a secure, end-to-end fully automated solution for controlling access, transmission, manipulation, and auditability of high value information comprising an RFID transponder badge 302 and an RF reader transceiver 315 which is associated with a host peripheral or a network. The RF reader transceiver 315 automatically identifies and verifies authorization of the RFID transponder badge holder via a "handshake" prior to allowing access to the host peripheral. The energy generated by the transmission of the interrogation signal from the RF reader means 315 provides a power source which is accumulated and then used to activate a transponder 304 response from the RFID transponder badge 302. The RF reader/transceiver 315 writes the access transaction on either the RFID transponder badge 302 and/or the host peripheral database or the network controller. Alternatively, the RF reader means 315 may be associated via network server with a LAN, WAN, or MAN. Optionally, an RFID badge 302a may be powered by an independent power source such as a flatpak battery 314.

42 Claims, 7 Drawing Sheets



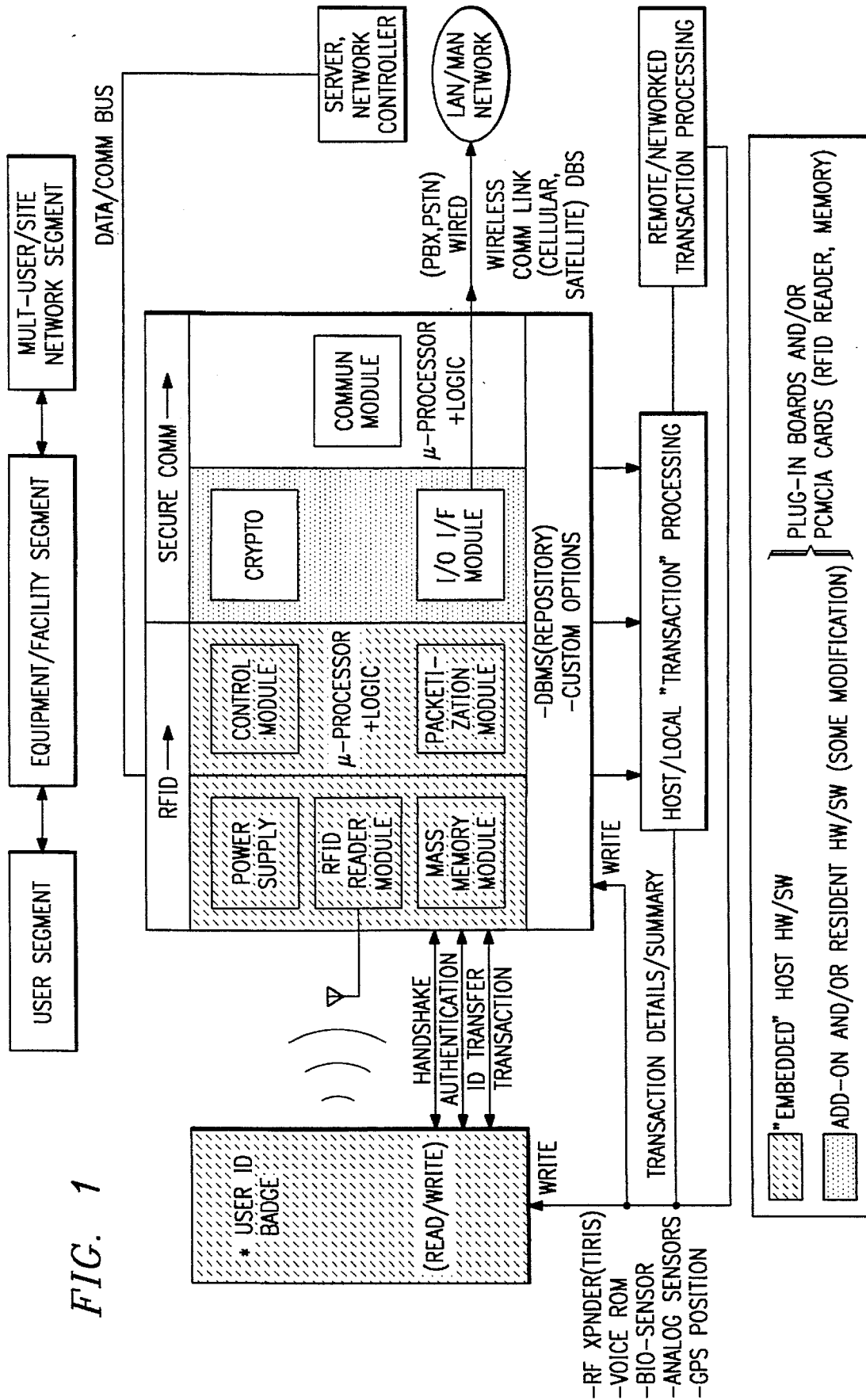


FIG. 1

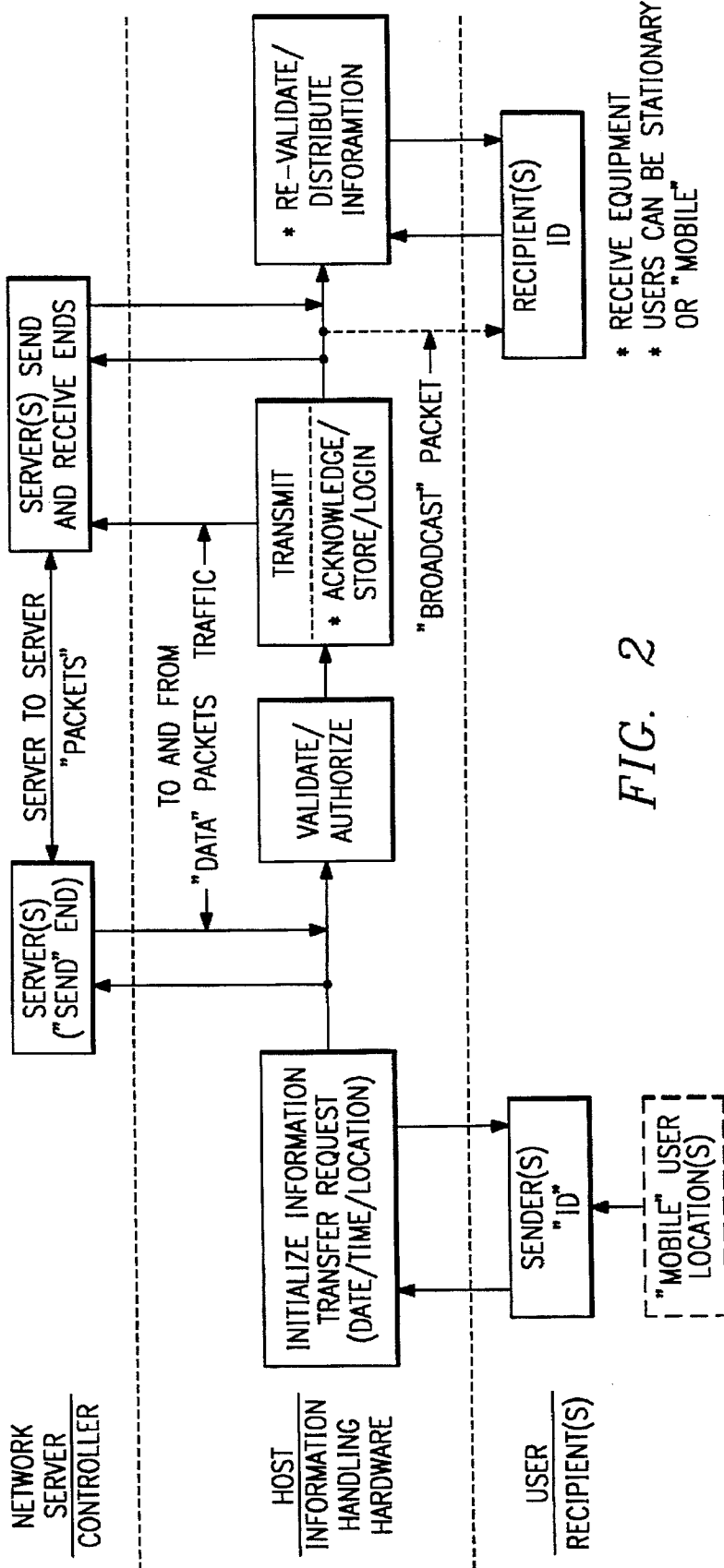


FIG. 2

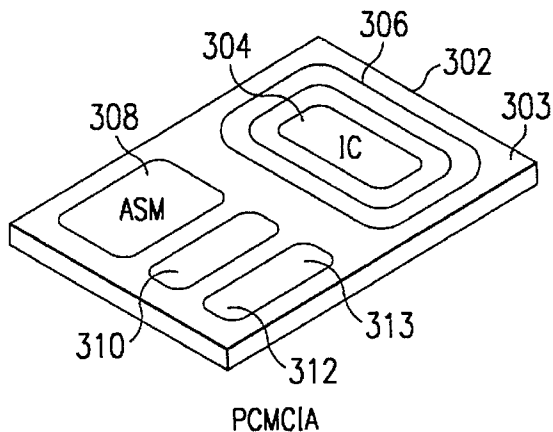


FIG. 3A

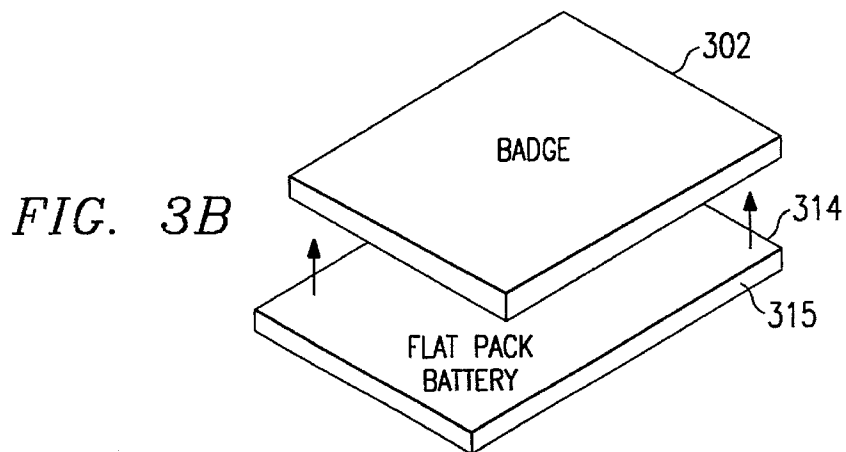


FIG. 3B

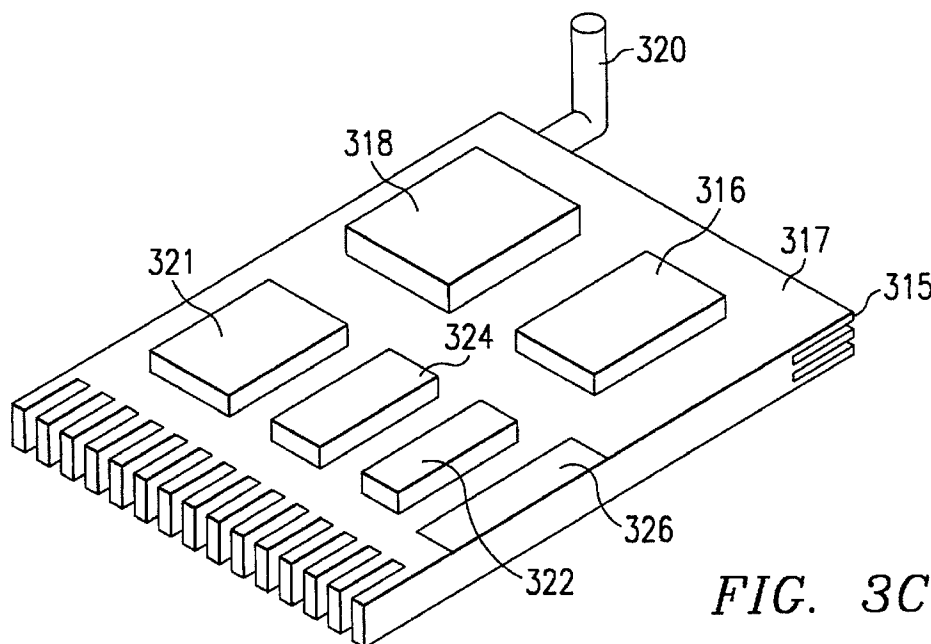


FIG. 3C

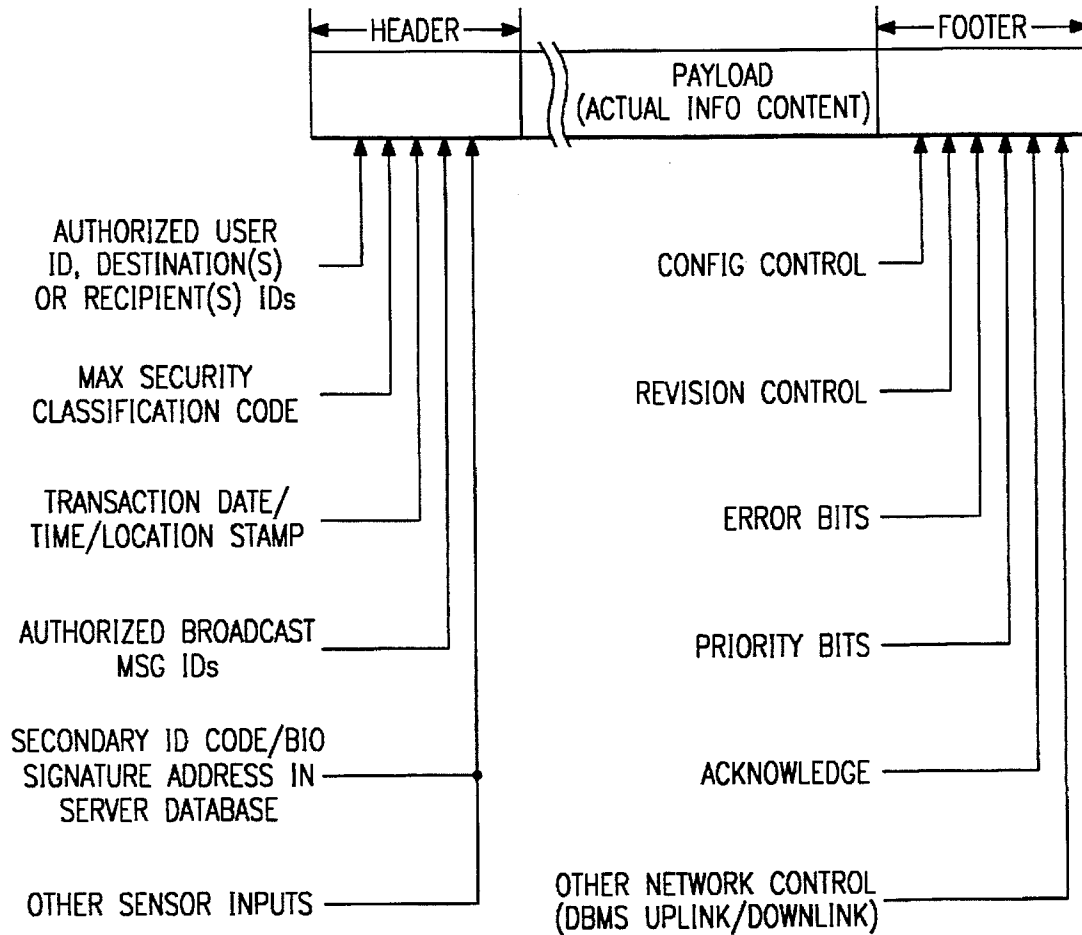


FIG. 4

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