

United States Patent [19]

Hiroya et al.

[54] ELECTRONIC TICKET VENDING SYSTEM **AND METHOD THEREOF**

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- [73] Assignee: Hitachi, Ltd, Tokyo, Japan
- [21] Appl. No.: 558,741
- [22] Filed: Nov. 16, 1995
- [30] **Foreign Application Priority Data**
- [JP] Japan 6-284623 Nov. 18, 1994

- [58] Field of Search 380/16, 24, 23, 380/30

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May 19, 1998

Primary Examiner-Salvatore Cangialosi

Patent Number:

Date of Patent:

[11]

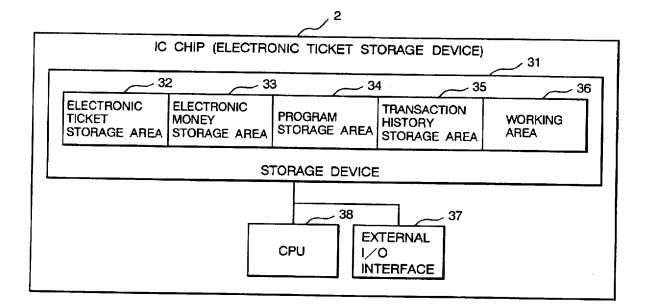
[45]

Attorney, Agent, or Firm-Fay Sharpe Beall Fagan Minnich & McKee

[57] ABSTRACT

A system comprises an electronic ticket vending and refunding device retained by a ticket publisher, a terminal device having a data input device, a data display device, and a data transmission and reception device, etc. which are operated by a purchaser, and en electronic ticket storage device retained by the purchaser, and the vending and refunding device and the terminal device are connected by a communication line such as a telephone line, and the storage device and the terminal device can be connected in contact or non-contact, and transmission and reception of data between the vending and refunding device and the storage device are executed by electronic money and an electronic ticket which are electronically signed, and a trouble of sending and receiving of an electronic ticket and electronic money is prevented by recording the transaction history as required.

18 Claims, 12 Drawing Sheets



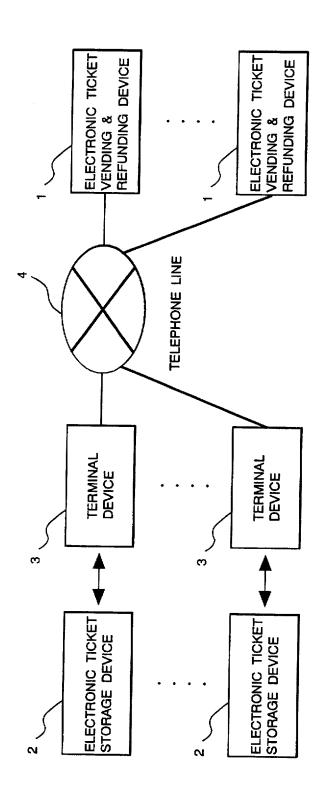


FIG. 1

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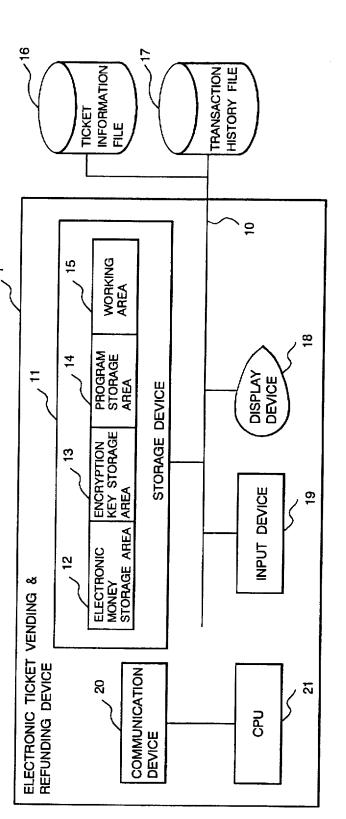


FIG. 2

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FIG. 3

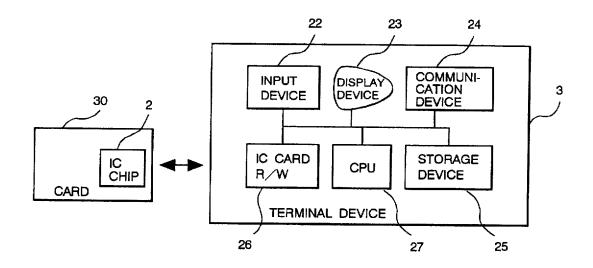


FIG. 4

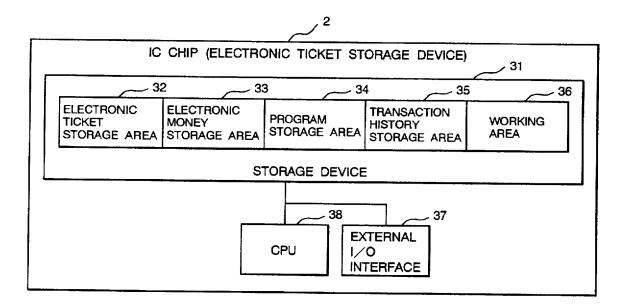
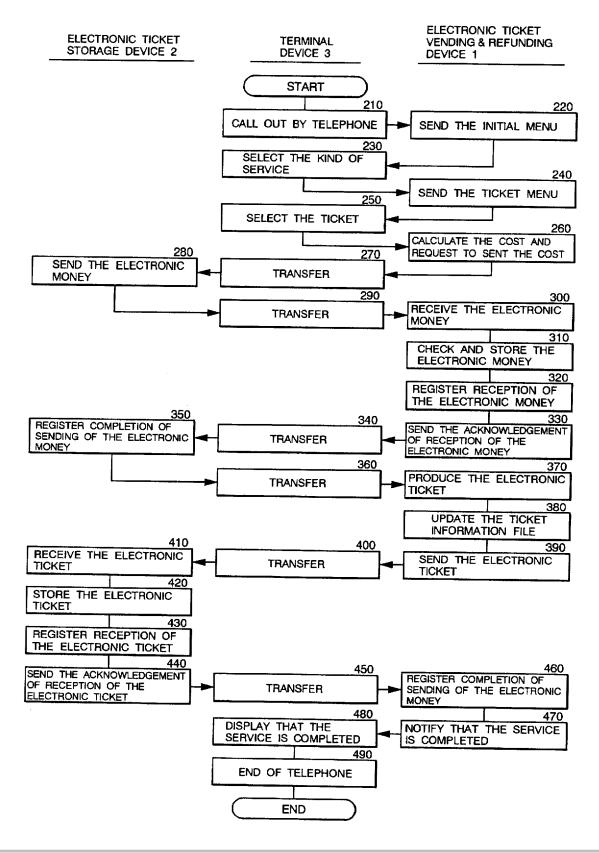


FIG. 5



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