

United States Patent [19]

Nov. 16, 1995

Foreign Application Priority Data

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

References Cited

U.S. PATENT DOCUMENTS

[JP] Japan 6-284623

5/1987 Ragan et al. 380/16

Hiroya et al.

[21] Appl. No.: 558,741

[22] Filed:

Nov. 18, 1994

4,663,664

[30]

[56]

Patent Number: [11]

5,754,654

Date of Patent: [45]

May 19, 1998

[54] ELECTRONIC TICKET VENDING SYSTEM AND METHOD THEREOF Primary Examiner—Salvatore Cangialosi

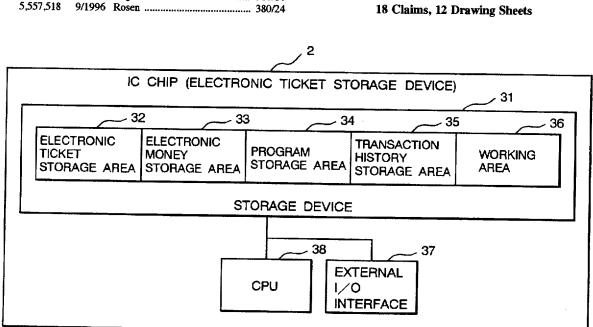
380/30

[75] Inventors: Masaaki Hiroya, Yokohama; Hiroshi Attorney, Agent, or Firm-Fay Sharpe Beall Fagan Minnich Asao, Kawasaki, both of Japan & McKee

[57] ABSTRACT [73] Assignee: Hitachi, Ltd, Tokyo, Japan

> 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

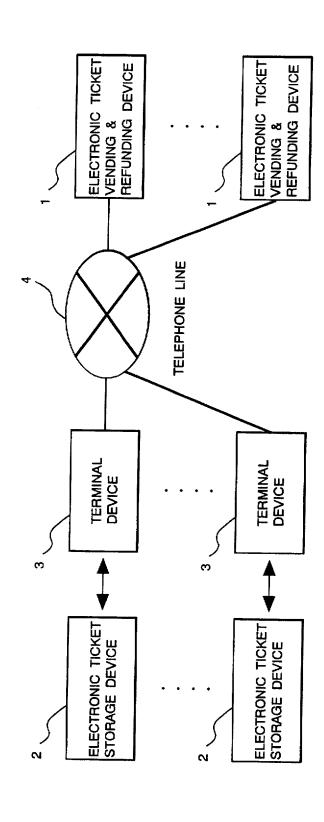




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FIG. 2

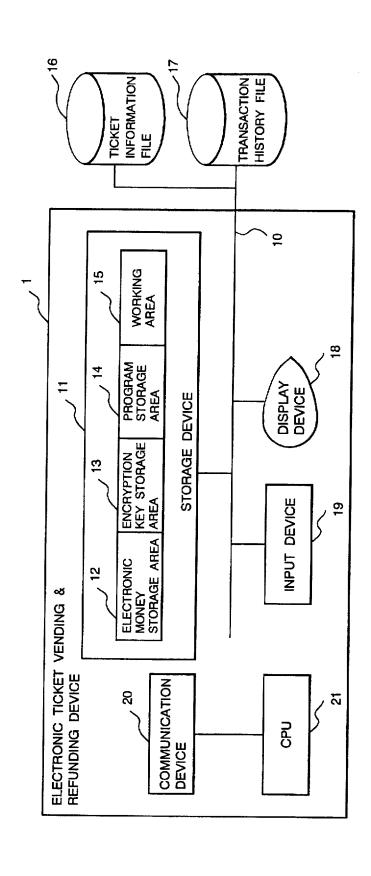


FIG. 3

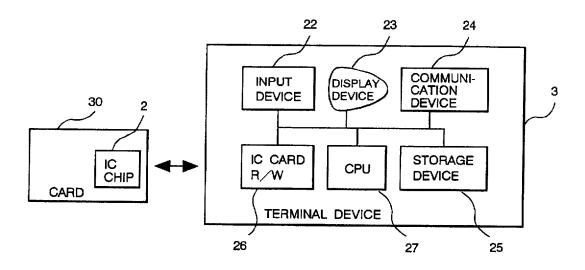


FIG. 4

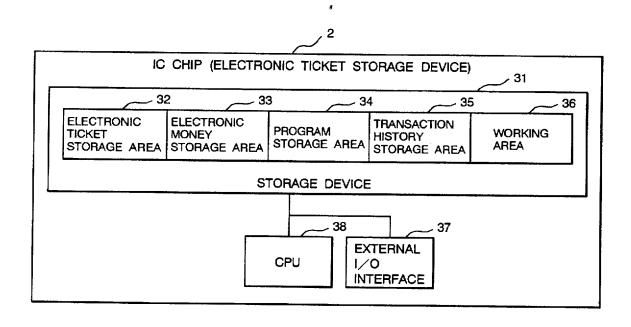
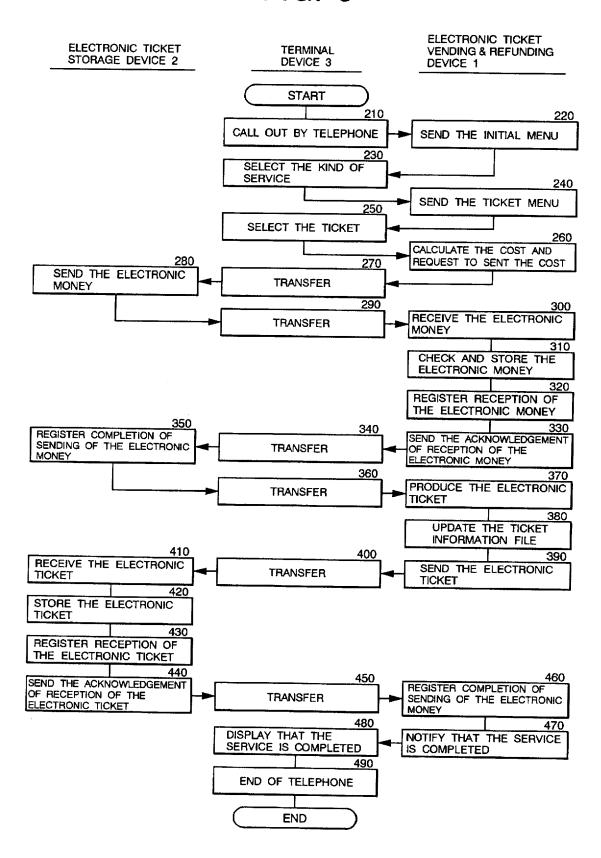




FIG. 5





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