

## 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

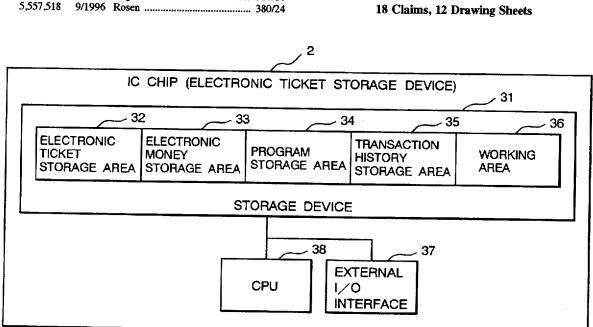
380/30

[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

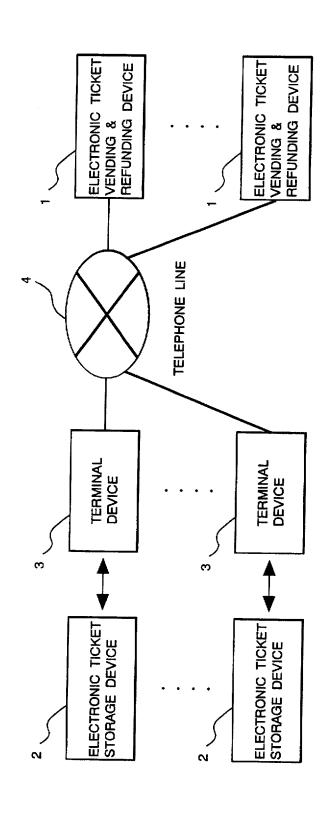




May 19, 1998

5,754,654

F1G. 1





May 19, 1998

FIG. 2

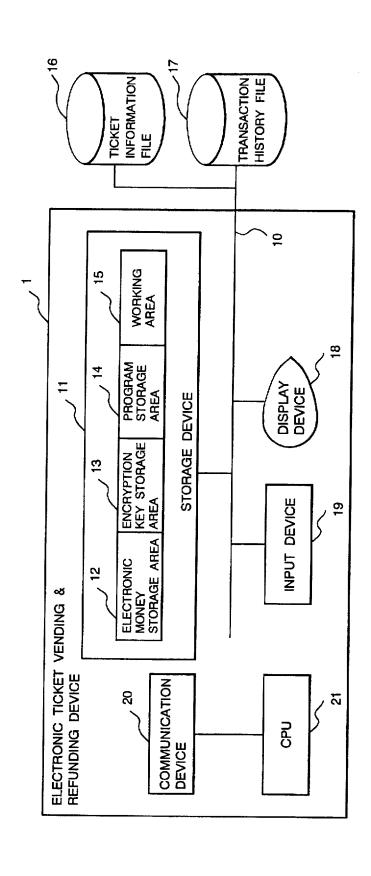


FIG. 3

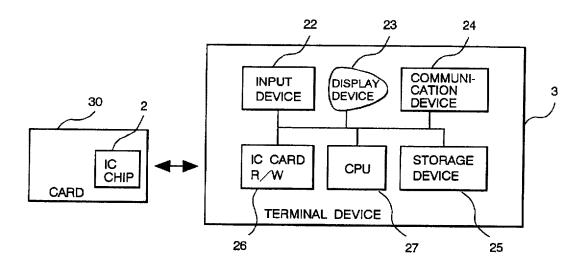


FIG. 4

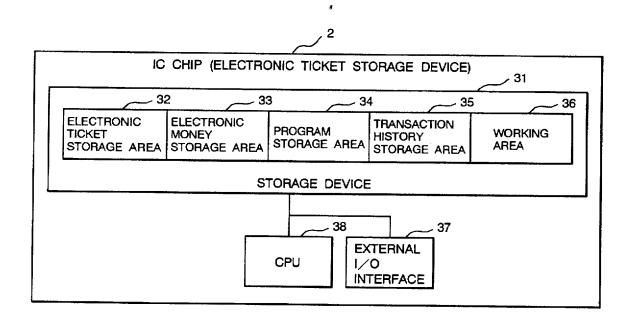
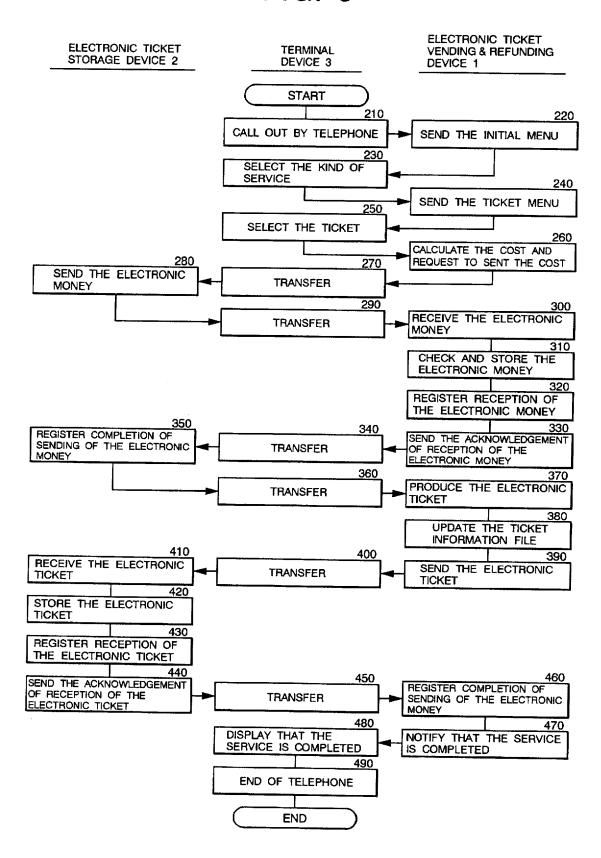




FIG. 5





# DOCKET A L A R M

# Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

# **Real-Time Litigation Alerts**



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## **Advanced Docket Research**



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## **Analytics At Your Fingertips**



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

### **LAW FIRMS**

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

### **FINANCIAL INSTITUTIONS**

Litigation and bankruptcy checks for companies and debtors.

## **E-DISCOVERY AND LEGAL VENDORS**

Sync your system to PACER to automate legal marketing.

