



US005815577A

United States Patent [19]

[11] Patent Number: **5,815,577**

Clark

[45] Date of Patent: **Sep. 29, 1998**

[54] **METHODS AND APPARATUS FOR SECURELY ENCRYPTING DATA IN CONJUNCTION WITH A PERSONAL COMPUTER**

[75] Inventor: **Dereck D. Clark**, Phoenix, Ariz.

[73] Assignee: **Innovonics, Inc.**, Phoenix, Ariz.

[21] Appl. No.: **814,986**

[22] Filed: **Mar. 24, 1997**

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 609,273, Mar. 1, 1996, which is a continuation of Ser. No. 210,200, Mar. 18, 1994, Pat. No. 5,517,569.

[51] Int. Cl.⁶ **H04K 1/00**; H04L 17/02

[52] U.S. Cl. **380/52**; 380/23; 380/25; 380/49

[58] Field of Search 380/23, 24, 25, 380/49, 52; 705/16, 17, 18, 42, 43, 26, 27

[56] References Cited

U.S. PATENT DOCUMENTS

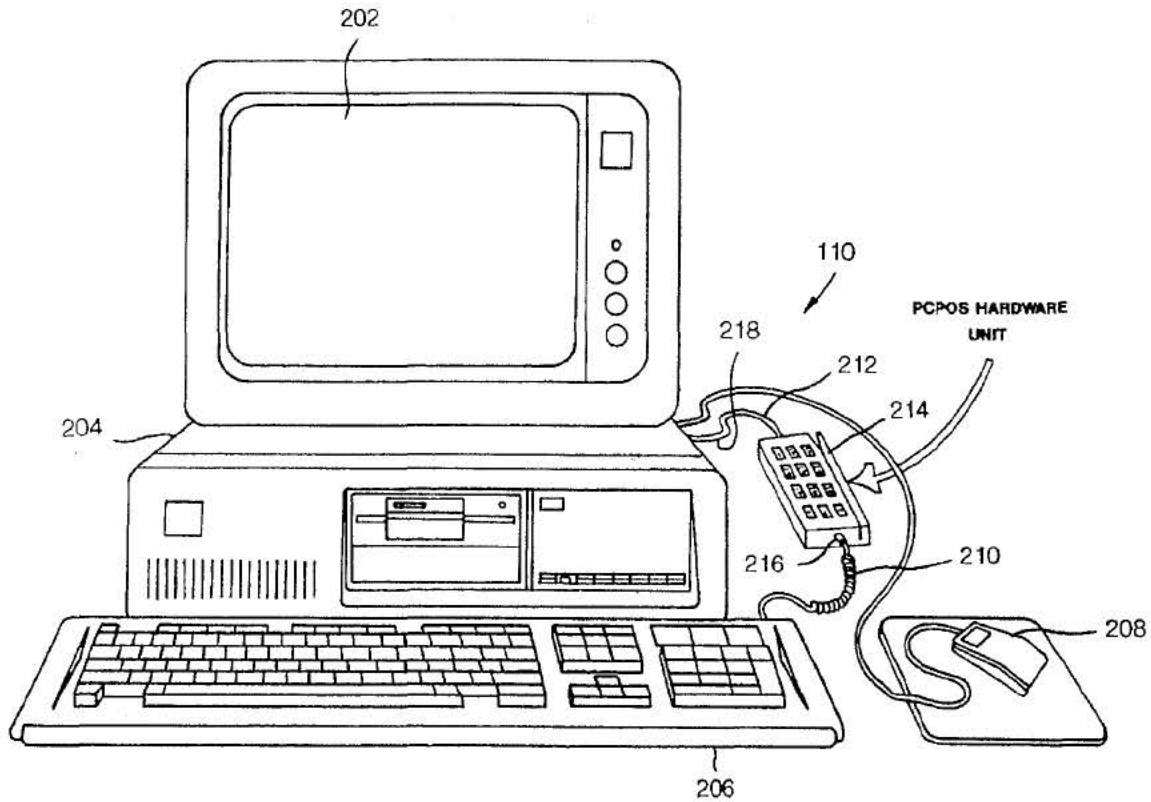
4,350,844	9/1982	Sturzinger et al.	380/4
5,228,084	7/1993	Johnson et al.	380/23
5,499,296	3/1996	Micali	380/23
5,517,569	5/1996	Clark	380/52
5,615,262	3/1997	Guy et al.	380/4

Primary Examiner—Thomas H. Tarca
Assistant Examiner—Pinchus M. Laufer
Attorney, Agent, or Firm—Snell & Wilmer L.L.P.

[57] ABSTRACT

An encryption module for encrypting financial and other sensitive data may be conveniently interposed in series between a personal computer and the keyboard associated therewith. An application program designed to run on the PC is configured to prompt the user to enter his PIN or other confidential data into the encryption module; consequently the confidential data need not be transmitted in an unencrypted fashion, and need not reside on the PC hard drive in an unencrypted form.

23 Claims, 31 Drawing Sheets



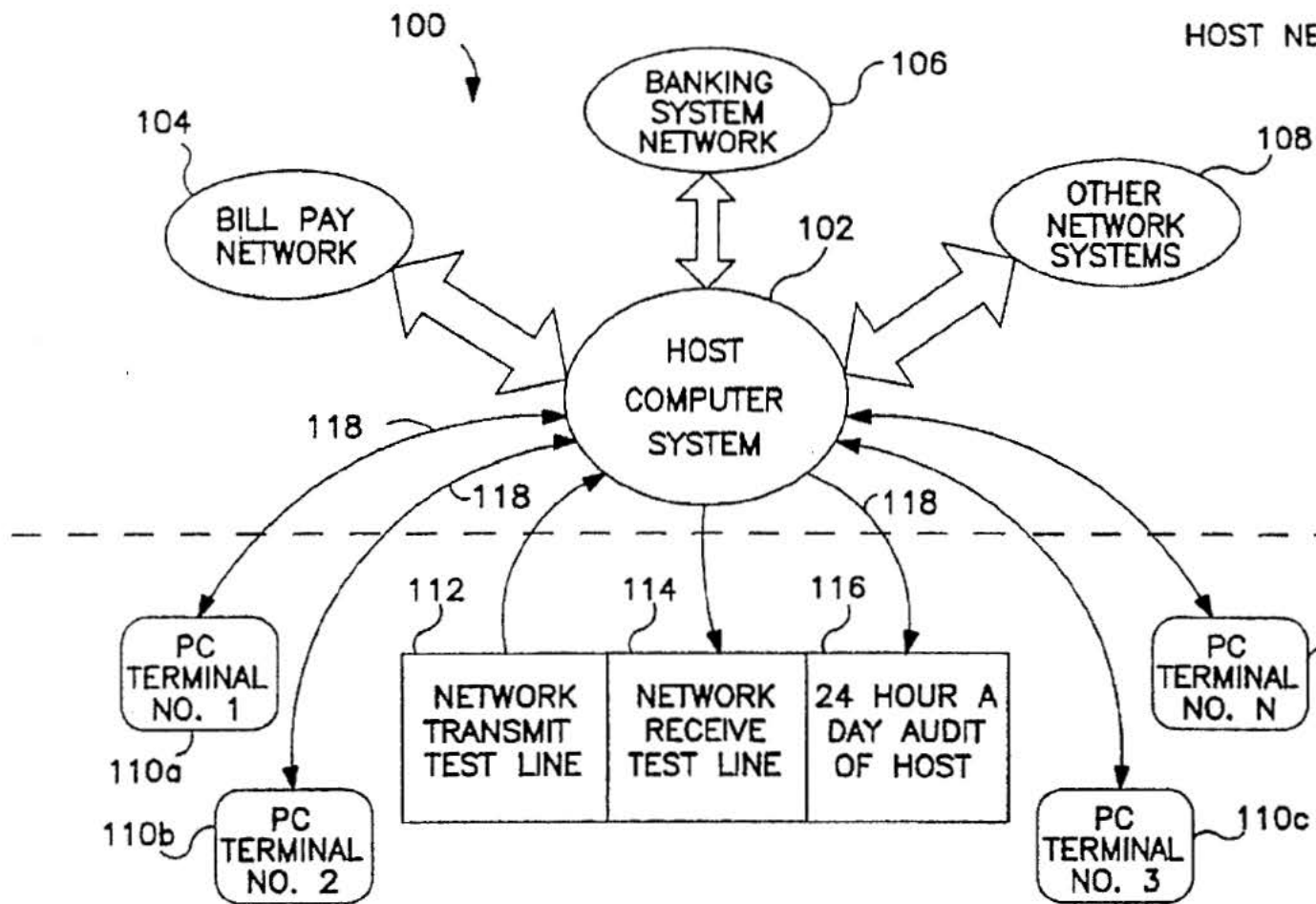


FIG. 1

PC TERMINAL NE

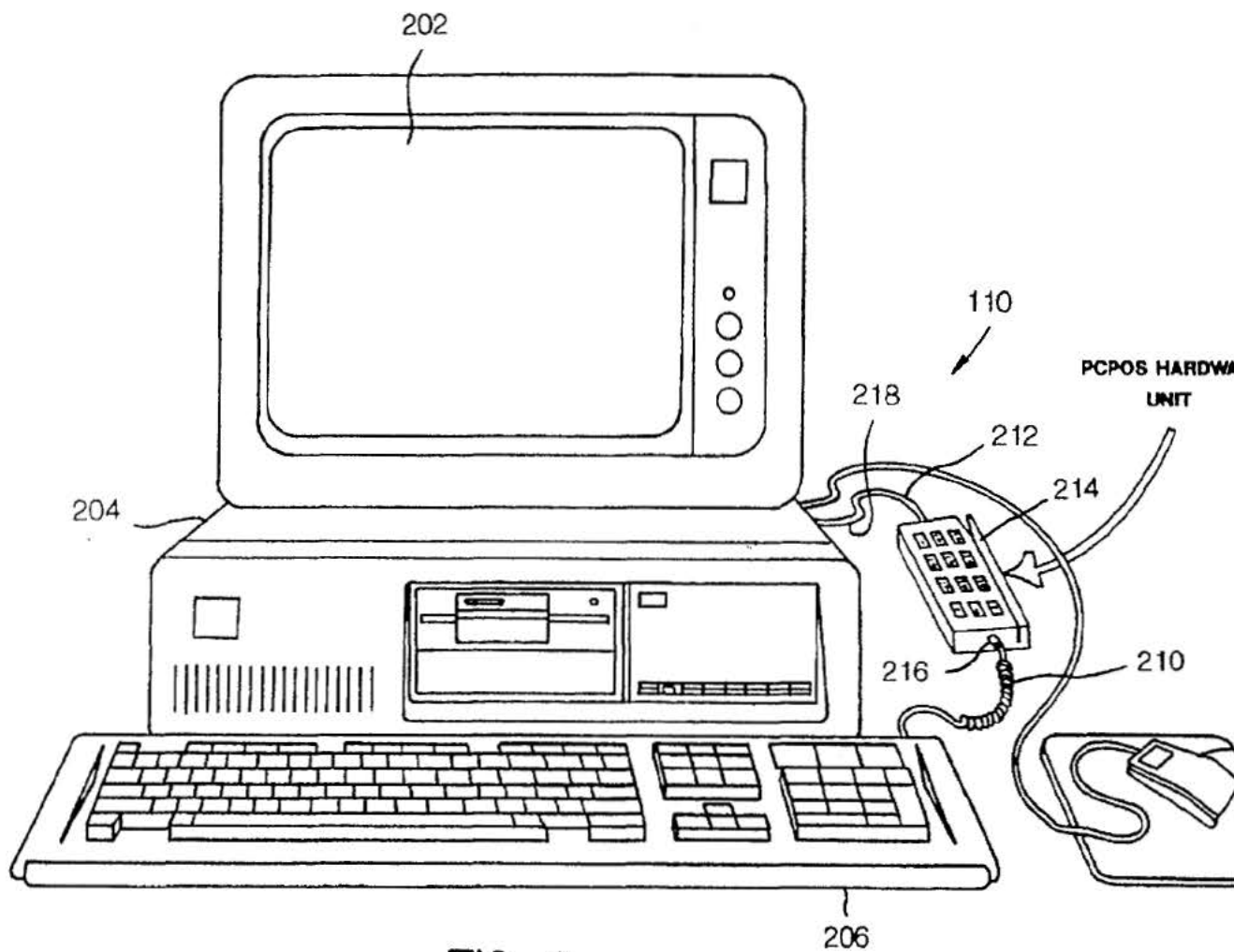


FIG. 2

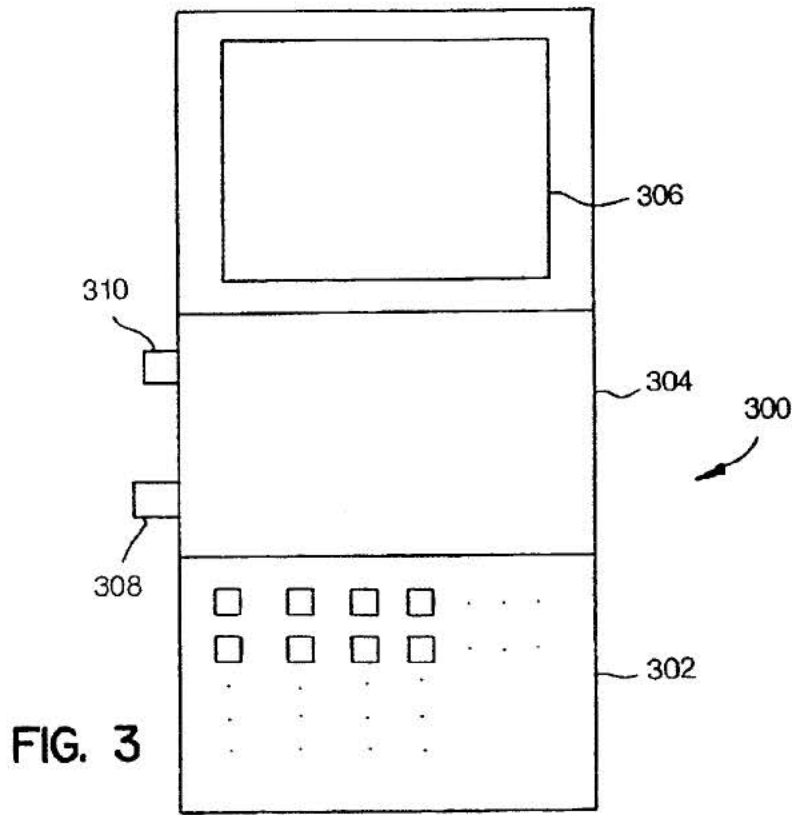


FIG. 3

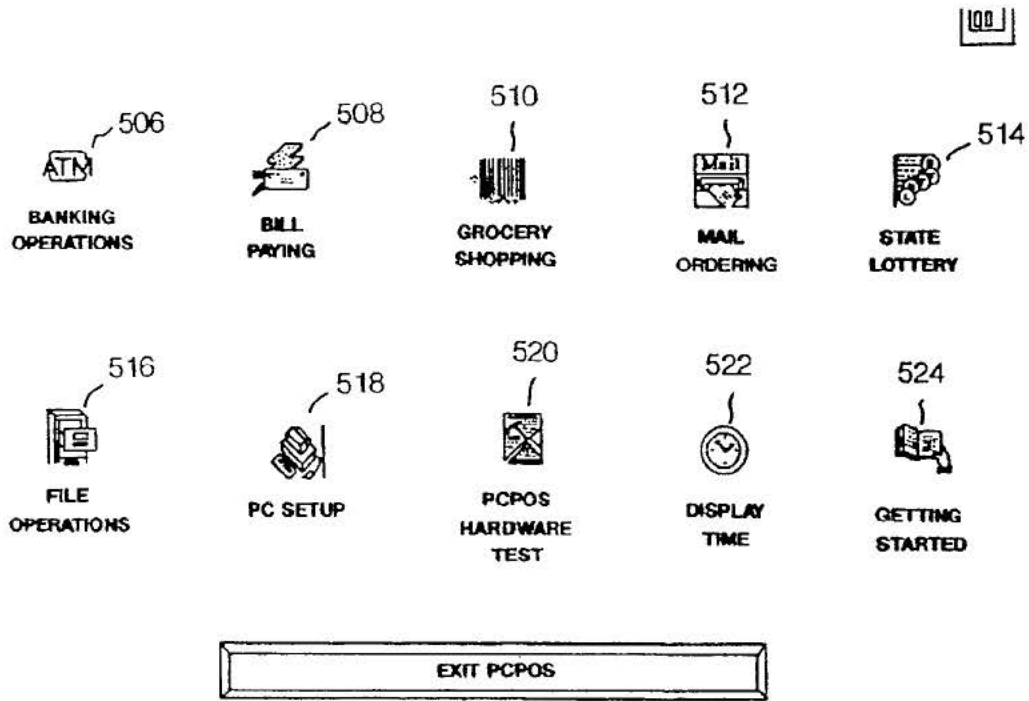
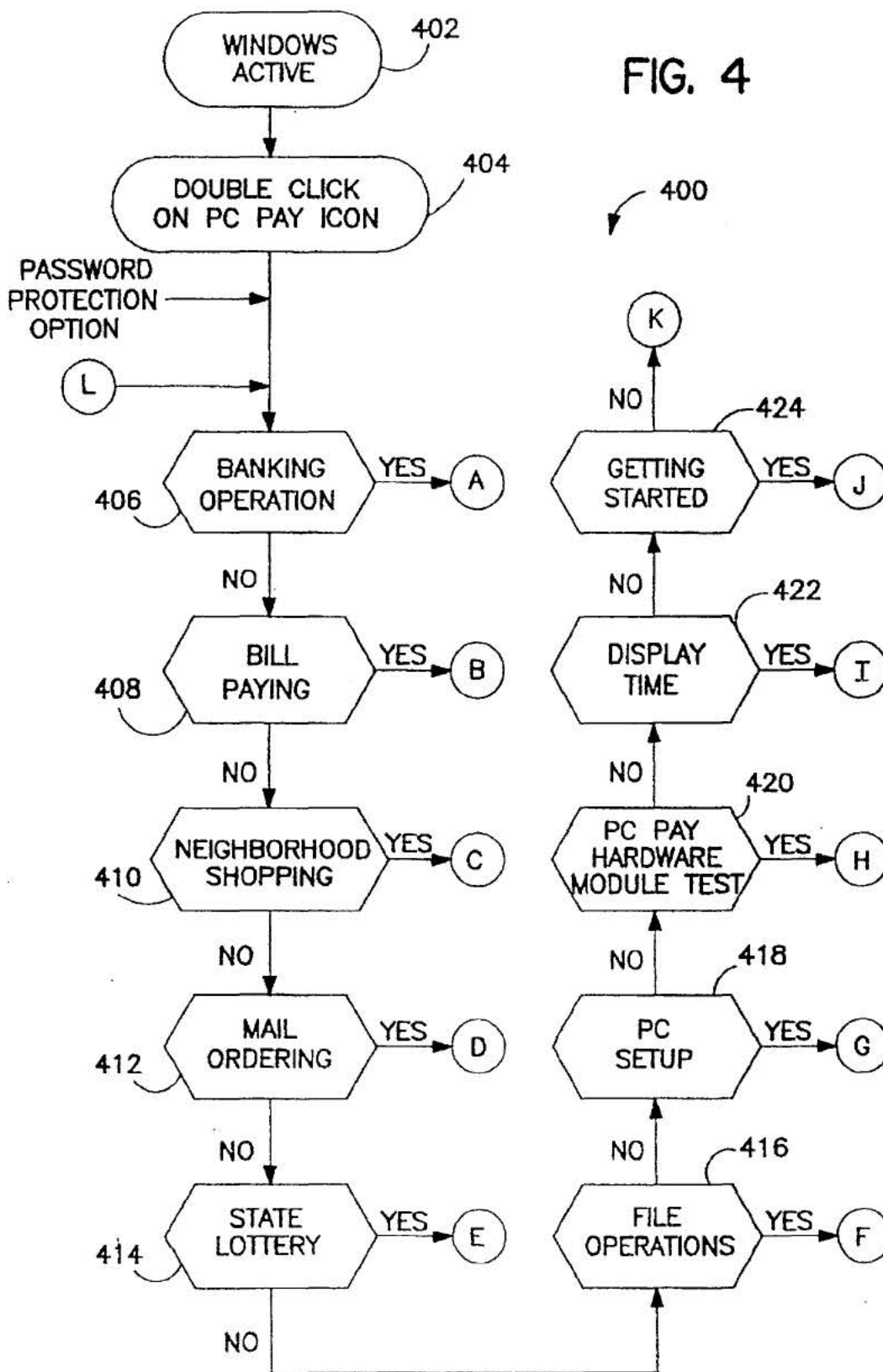


FIG. 5



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.