



US005657378A

United States Patent [19]

[11] Patent Number: **5,657,378**

Haddock et al.

[45] Date of Patent: **Aug. 12, 1997**

- [54] **DIGITAL SCREEN PHONE TERMINAL WITH GRAPHICAL USER INTERFACE**
- [75] Inventors: **Robert L. Haddock**, New York, N.Y.;
Joseph P. Randolph, Winchester, Mass.
- [73] Assignee: **M Power Corporation**, New York, N.Y.
- [21] Appl. No.: **420,208**
- [22] Filed: **Apr. 11, 1995**
- [51] Int. Cl.⁶ **H04M 11/00**
- [52] U.S. Cl. **379/93.23; 379/93.24; 379/93.08; 379/93.28**
- [58] Field of Search **379/96, 97, 98, 379/94, 93, 100**

[56] **References Cited**

U.S. PATENT DOCUMENTS

Re. 30,773	10/1981	Glaser et al.	235/379
4,392,023	7/1983	Sears	179/2 DP
5,036,513	7/1991	Greenblatt	379/96
5,195,130	3/1993	Weiss et al.	379/98

FOREIGN PATENT DOCUMENTS

0365200	4/1990	European Pat. Off.
0526729	2/1993	European Pat. Off.
0630141	12/1994	European Pat. Off.
2156186	10/1985	United Kingdom
2285897	7/1995	United Kingdom
WO91/07839	5/1993	WIPO

OTHER PUBLICATIONS

- Bank Technology News, "Citibank Screenphone Spawns Competition", Jul. 1994, two pages.
- CardTech/SecurTech '94 "Building Foundations for Innovation", Apr. 11-13, 1994, two pages.
- Citibank, Philips screen telephone advertisement, 1994, one page.
- Philips screen telephone advertisement, one page.

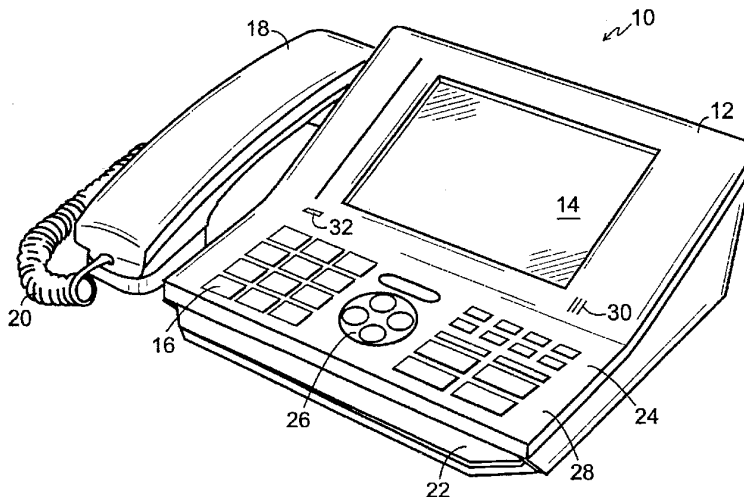
- Philips P100 Enhanced Telephone Flat Screen Text Telephone advertisement, one page.
- VeriFone Omni VuFone advertisement, 1994, one page.
- Forval FP-500 and FP-500MR Super Display Phones advertisement, 1994, one page.
- Forval FP-500 Super Display Phone advertisement, one page.
- Consumer Information Appliance, "Screen Phone" article, Sep. 1994, one page.
- Washington Technology, "In The Netplex: New World Order?" article, Sep. 29, 1994, 1 p.
- U.S. Order Phoneplus advertisement, one page.
- International Searching Authority/European Patent Office, International Search Report, Sep. 13, 1996, application No. PCT/US96/0496, seven pages.
- IEEE International Conference on Communications, vol. 2/3, Mahy 23-26, 1993, "Dual Media Messaging Using Screen Telephones on the Telephone Network", Barry K. Schwartz and Stephen B Weinstein, pp. 1183-1188.
- IEEE Communications Magazine, No. 4, Apr. 28, 1990, "Screen-Based Telephony", Bob McNinch, pp. 34-38.

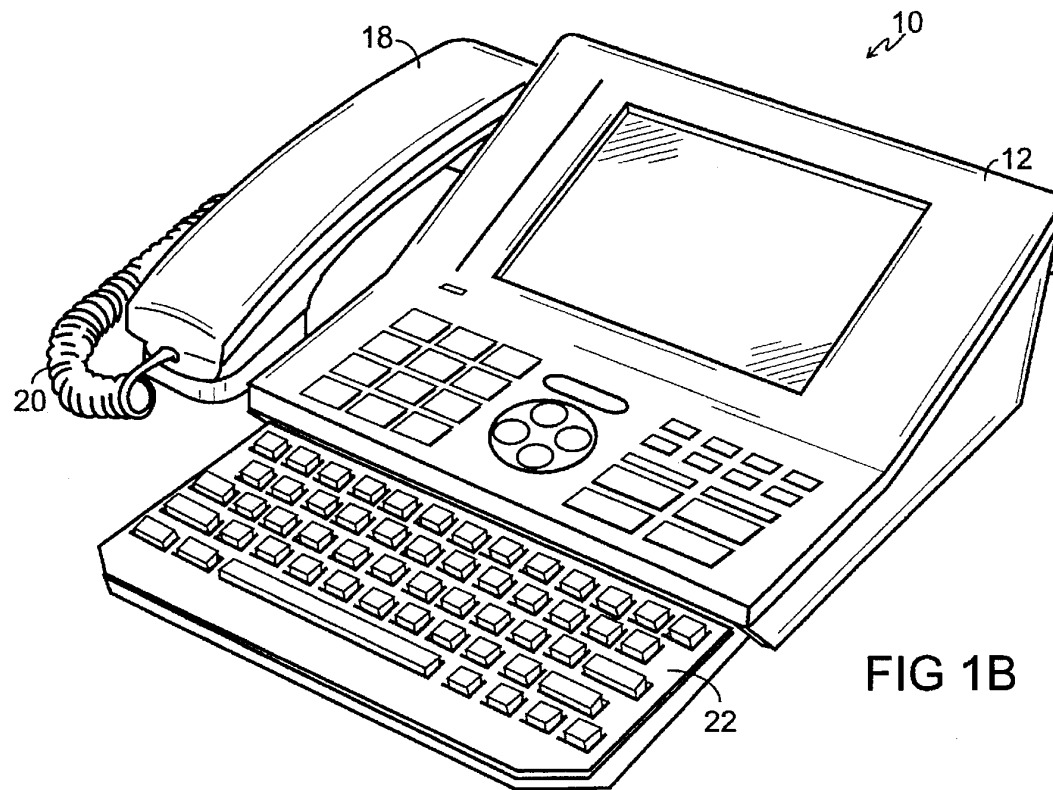
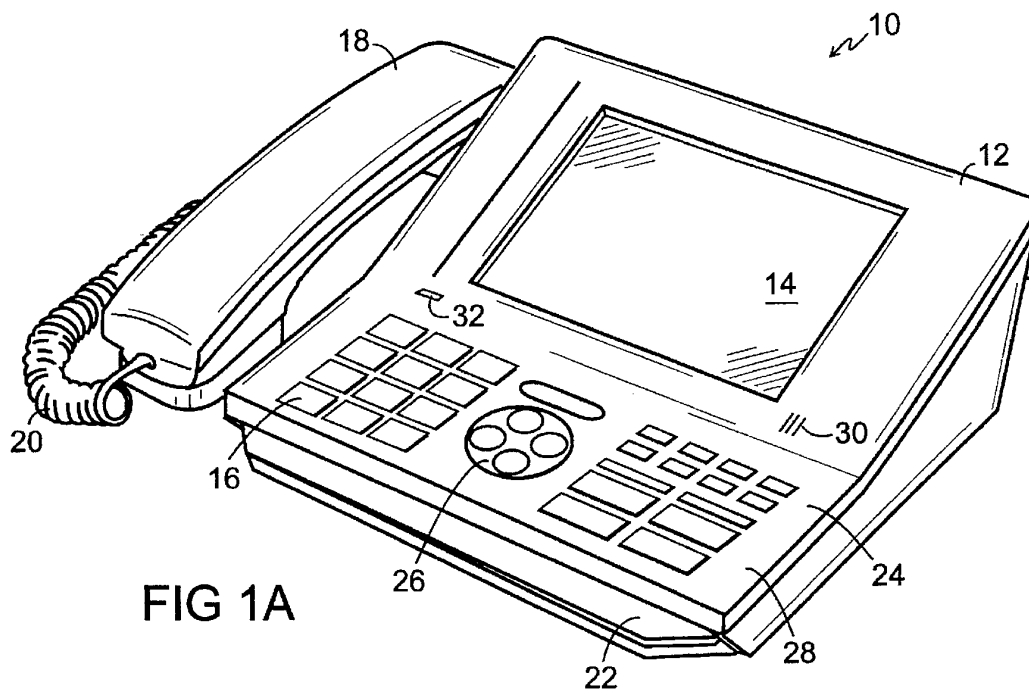
Primary Examiner—Stella Woo
Attorney, Agent, or Firm—Testa, Hurwitz & Thibault, LLP

[57] **ABSTRACT**

A telephone device for accessing electronic services includes a housing having a front portion with a display device and a telephone keypad. The telephone device provides a graphical user interface whereby user selectable options are presented in a graphical format on the display device and a user is allowed to make selections therefrom with, for example, a point-and-click mechanism. A processor, preferably a single programmable digital signal processor, is responsive to the telephone keypad and the user selectable options and executes a variety of modem functions, telephone functions, and application programs. The programmable digital signal processor also supports the graphical user interface.

18 Claims, 10 Drawing Sheets





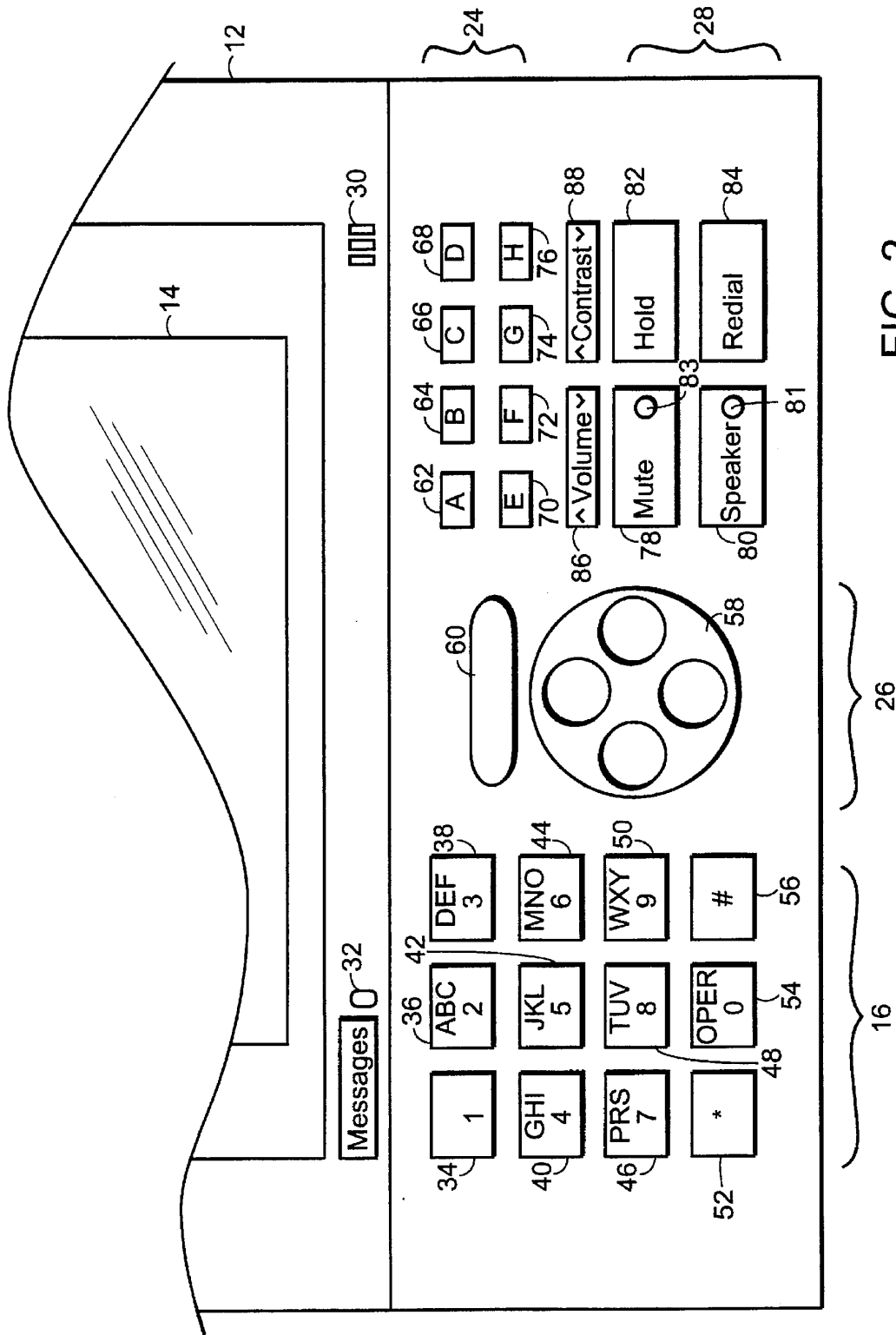


FIG. 2

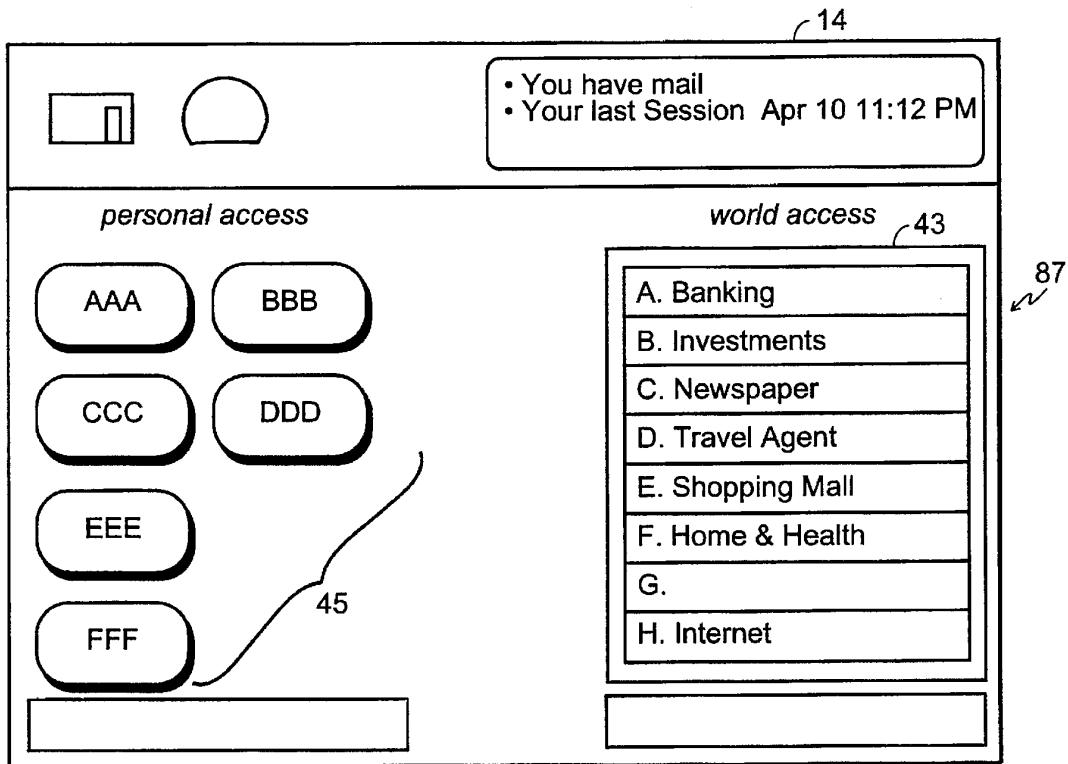


FIG. 3B

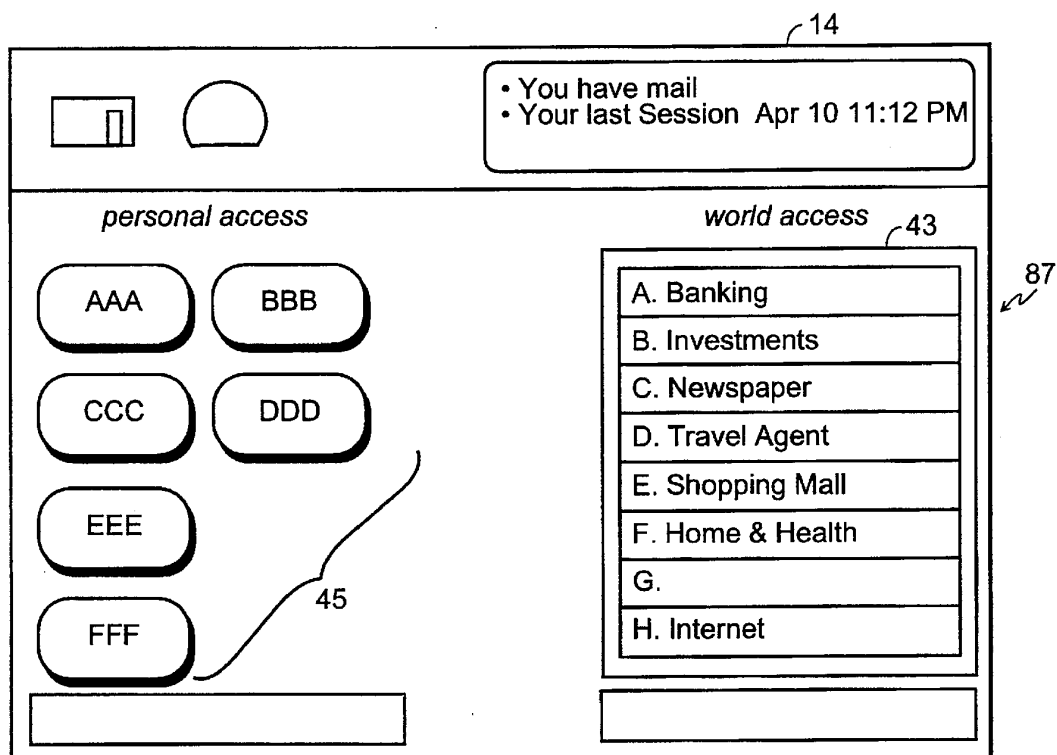


FIG. 3B

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.