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United States Patent [19]

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Haddock et al.

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- [54] **DIGITAL SCREEN PHONE TERMINAL WITH GRAPHICAL USER INTERFACE**
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- [73] **Assignee:** M Power Corporation, New York, N.Y.
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- [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.

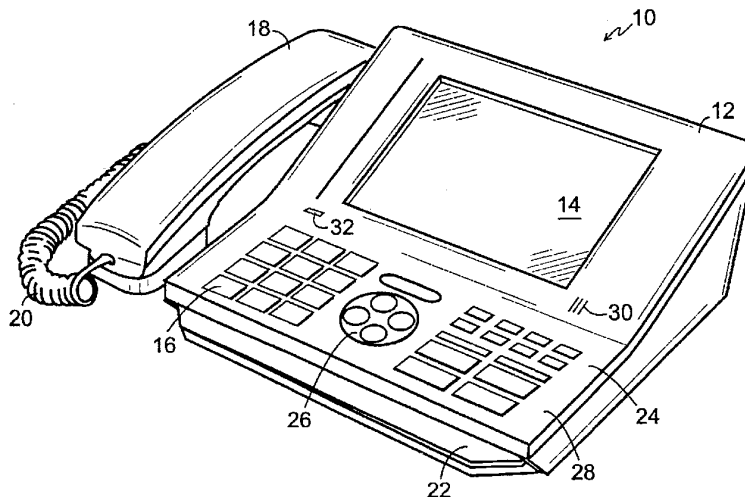
- Philips P100 Enhanced Telephone Flat Screen Text Telephone advertisement, one page.
- VeriFone Omni VuFone advertisement, 1994, one page.
- Forval FP-500 and FP-500MR Super Display Phones advertisement, 1994, one page.
- Forval FP-500 Super Display Phone advertisement, one page.
- Consumer Information 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.

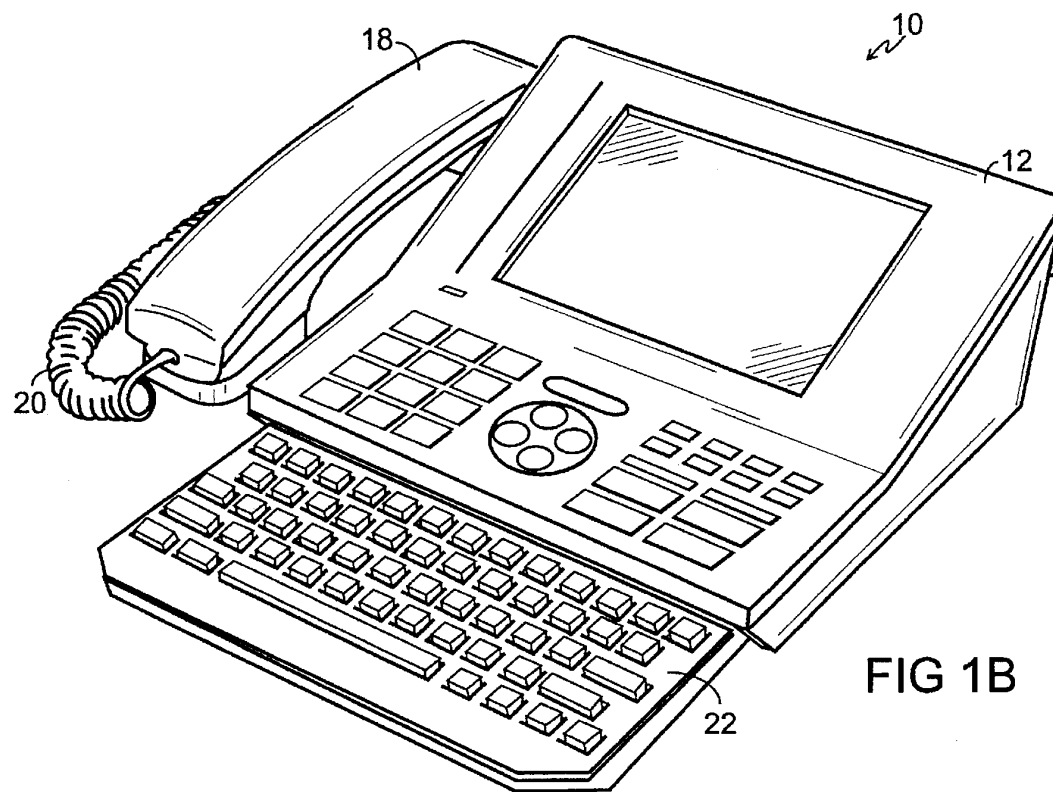
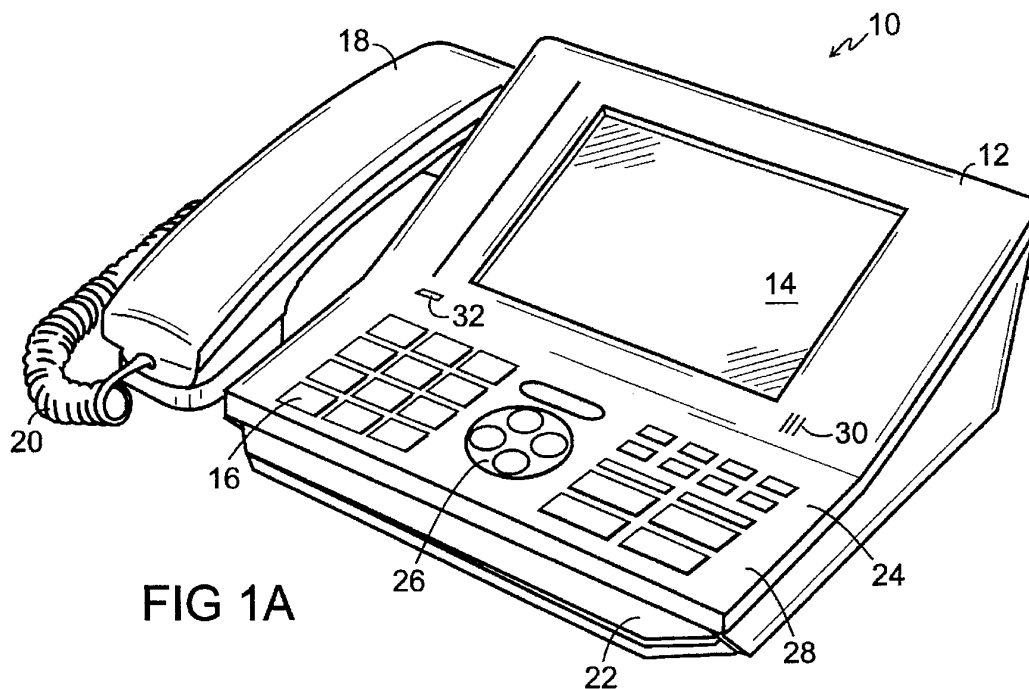
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Attorney, Agent, or Firm—Testa, Hurwitz & Thibault, LLP

[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





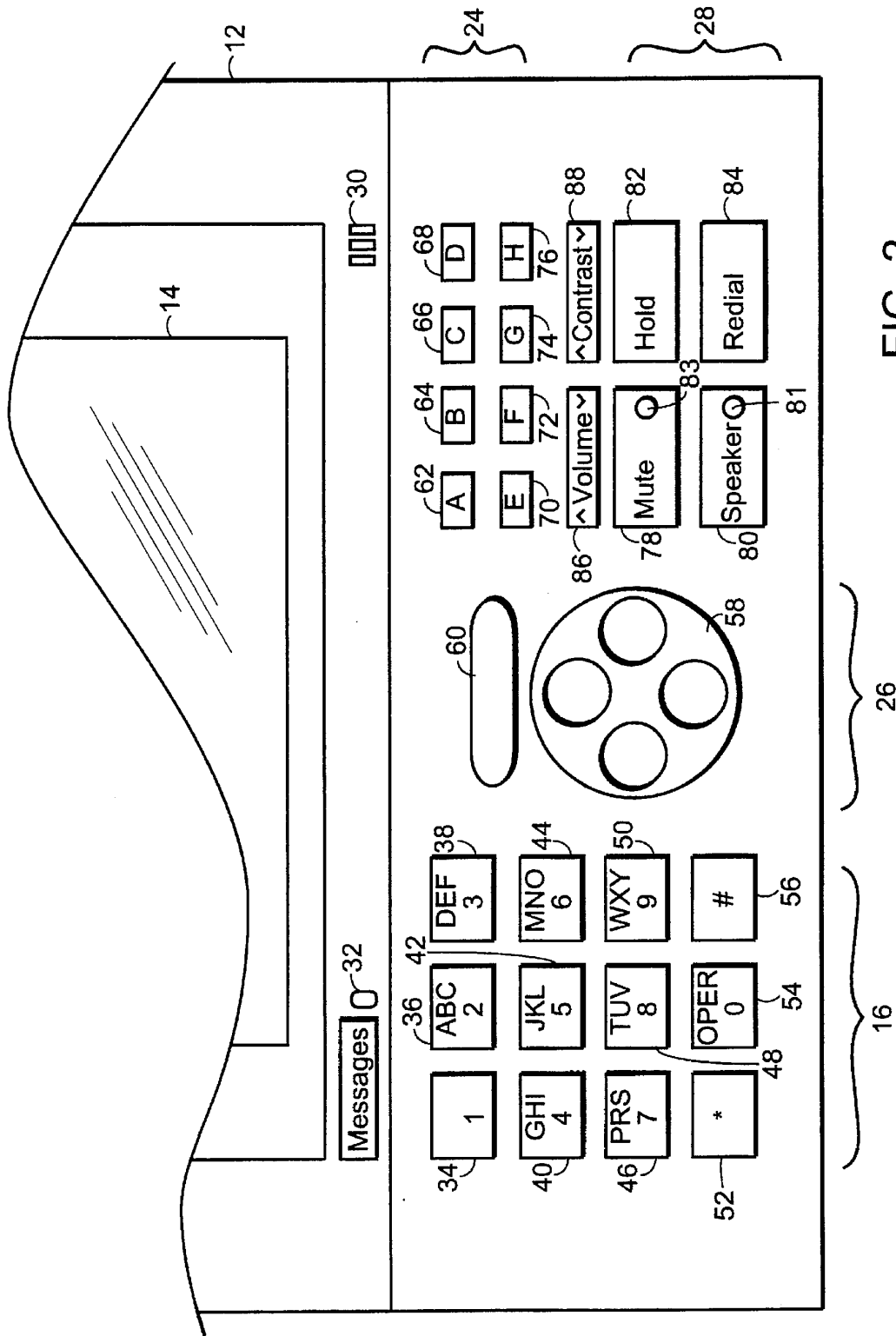


FIG. 2

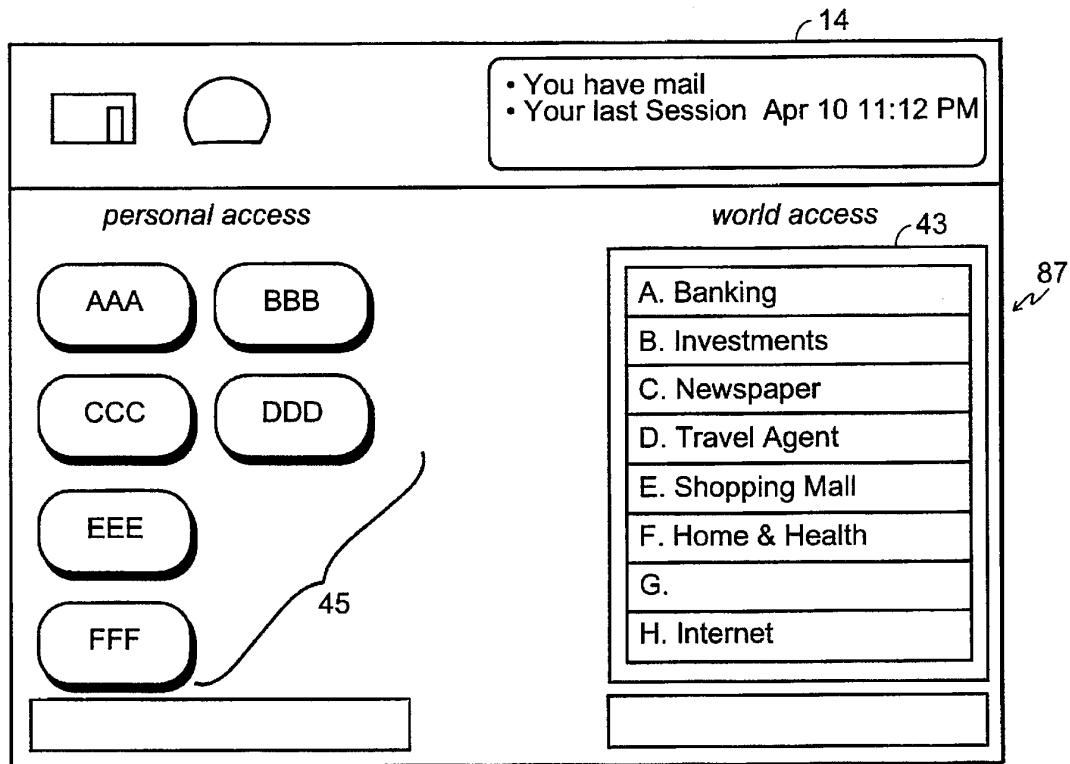


FIG. 3B

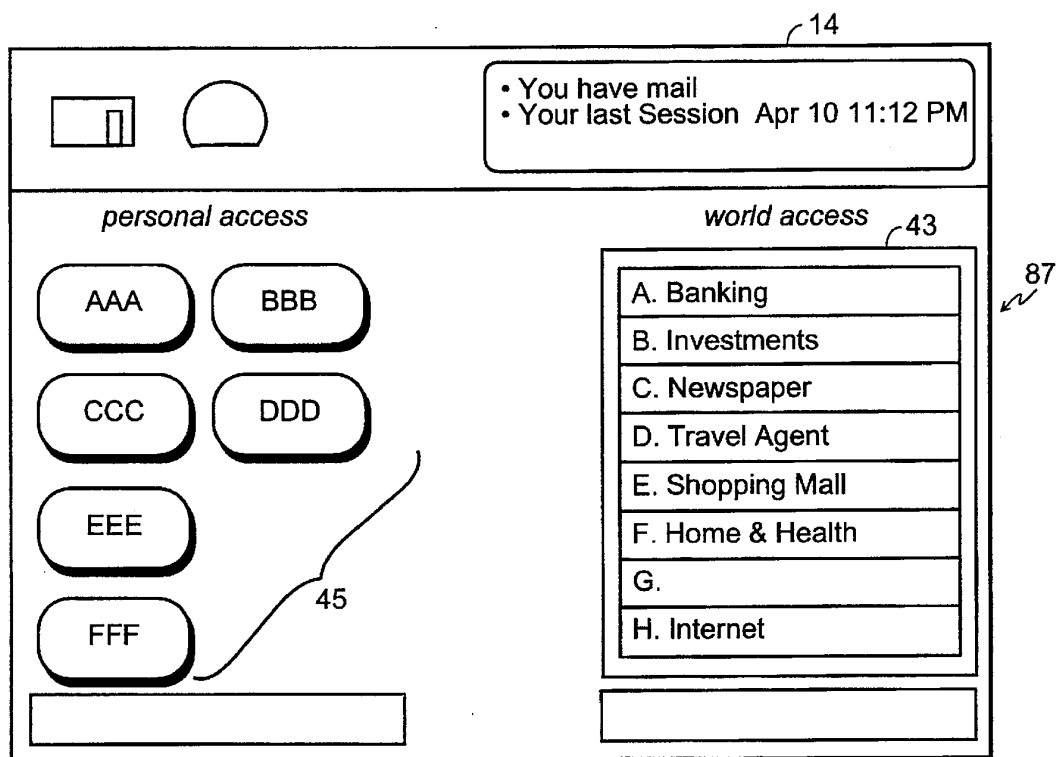


FIG. 3B

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