

[54] **GRAPHIC USER INTERFACE FOR INTERNET TELEPHONY APPLICATION**

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Related U.S. Application Data

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[51] **Int. Cl.⁶** **G06F 17/00**

[52] **U.S. Cl.** **709/227**

[58] **Field of Search** 395/200.57, 200.58; 709/227, 228; 370/352, 355, 357, 389, 395

References Cited

U.S. PATENT DOCUMENTS

5,095,480	3/1992	Fenner .
5,150,360	9/1992	Perlman et al. .
5,166,931	11/1992	Riddle .
5,204,669	4/1993	Dorfe et al. .
5,224,095	6/1993	Woest et al. .
5,291,554	3/1994	Morales .
5,309,433	5/1994	Cidon et al. .
5,309,437	5/1994	Perlman et al. .
5,321,813	6/1994	McMillen et al. .
5,357,571	10/1994	Banwart .
5,400,335	3/1995	Yamada .
5,425,028	6/1995	Britton et al. .
5,430,709	7/1995	Galloway .
5,430,727	7/1995	Callon .
5,432,846	7/1995	Norio .
5,442,633	8/1995	Perkins et al. .
5,452,296	9/1995	Shimizu .
5,455,854	10/1995	Dilts et al. .
5,457,683	10/1995	Robins .
5,457,738	10/1995	Sylvan .

5,463,625	10/1995	Yasrebi .
5,465,286	11/1995	Clare et al. .
5,469,500	11/1995	Satter et al. .
5,475,741	12/1995	Davis et al. .
5,479,411	12/1995	Klein .
5,509,058	4/1996	Sestak et al. .
5,517,494	5/1996	Green .
5,524,110	6/1996	Danneels et al. .
5,524,141	6/1996	Braun et al. .
5,526,489	6/1996	Nilakantan et al. .
5,533,110	7/1996	Pinard et al. .
5,544,303	8/1996	Maroteaux et al. .
5,546,582	8/1996	Brockmeyer et al. .

FOREIGN PATENT DOCUMENTS

A2 0445402	11/1991	European Pat. Off. .
A2 0556012	8/1993	European Pat. Off. .
WO 9219054	10/1992	WIPO .

OTHER PUBLICATIONS

Internetworking with TCP/IP, vol. 1, Second Edition, Principles, Protocols, and Architecture, by Douglas E. Comer. VocalTec Internet Phone (TM) Version 2.5, www.cox-smu.edu/class/mis6386/people/stort/iphone25.exe, Feb. 1995. Weinberg, Netscape Conference and Cooltalk Meeting Room, www.q5.com, Feb. 22, 1996.

Gull, Re: Getting IP address of PPP-connected Mac, <jgull-0304951005350001@pm012-11.dialip.mich.net>, Apr. 3, 1995.

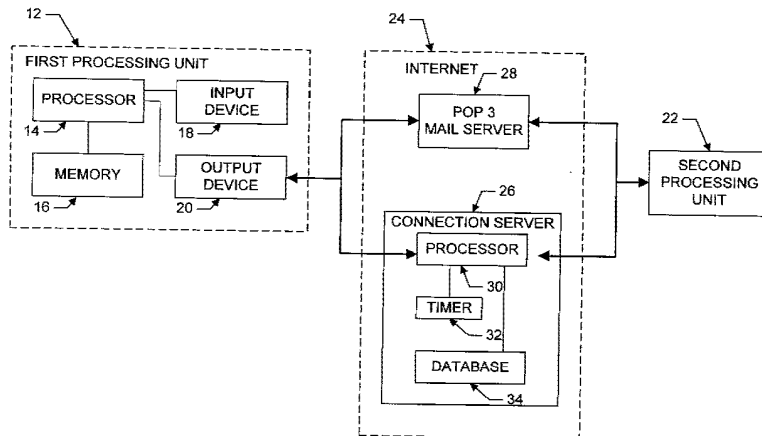
Gull, Re: Internet Phone for Mac?, >jgull-1704950116450001@pm049-28.dialip.mich.net>, Apr. 17, 1995.

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Attorney, Agent, or Firm—Kudirka & Jobse, LLP

[57] **ABSTRACT**

A communication utility for establishing real-time, point-to-point communications between processes over a computer network includes apparatus for querying a server as to the network protocol address of another client process, and apparatus for directly establishing a communication link with the client process upon receipt of the network protocol address from the server. In one embodiment, the utility includes a sophisticated user interface having features similar to typical telephony hardware but implementing greater flexibility with software.

18 Claims, 27 Drawing Sheets



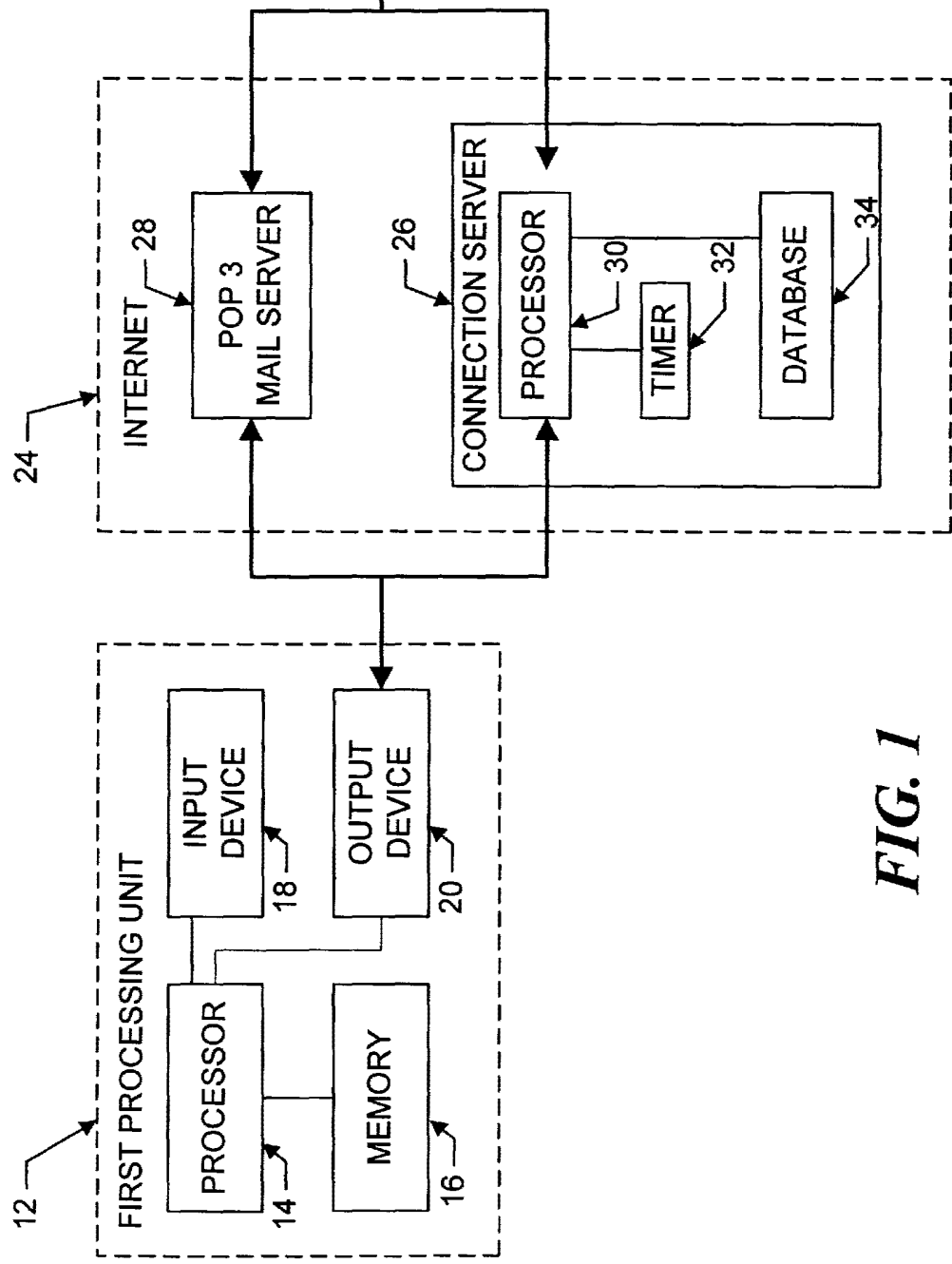


FIG. 1

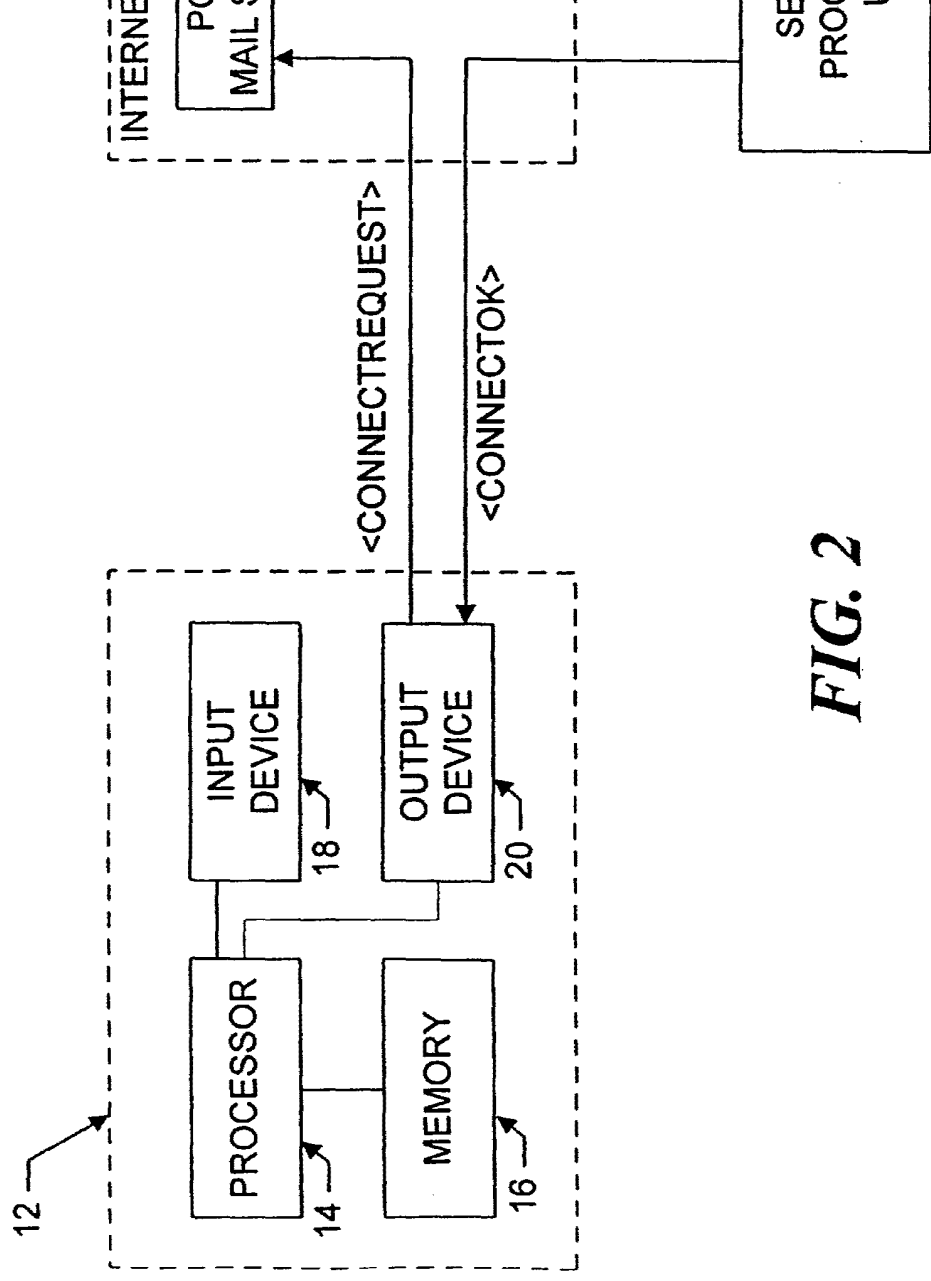


FIG. 2

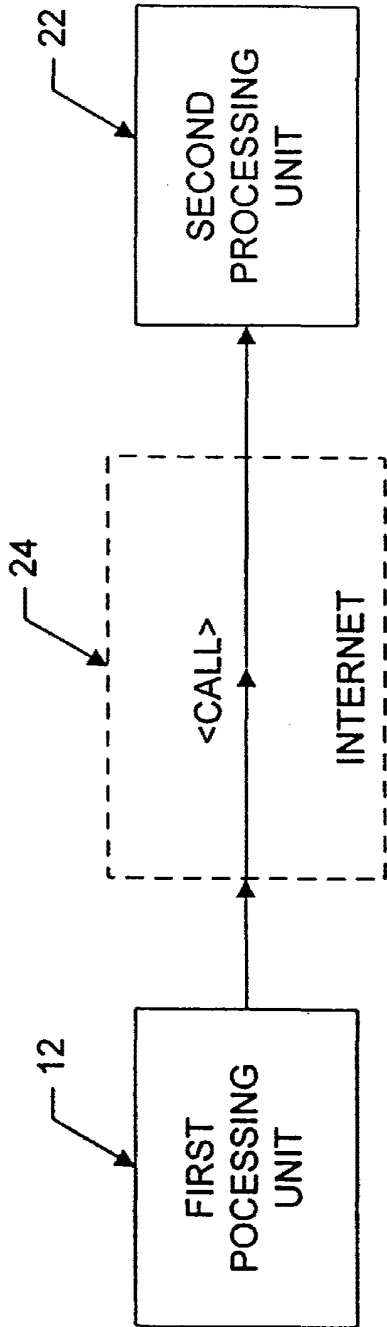


FIG. 3

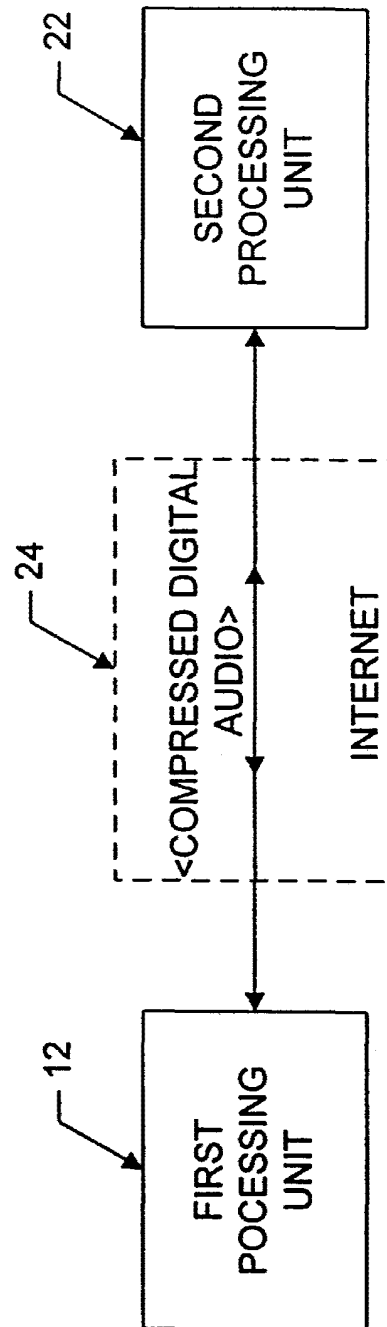


FIG. 4

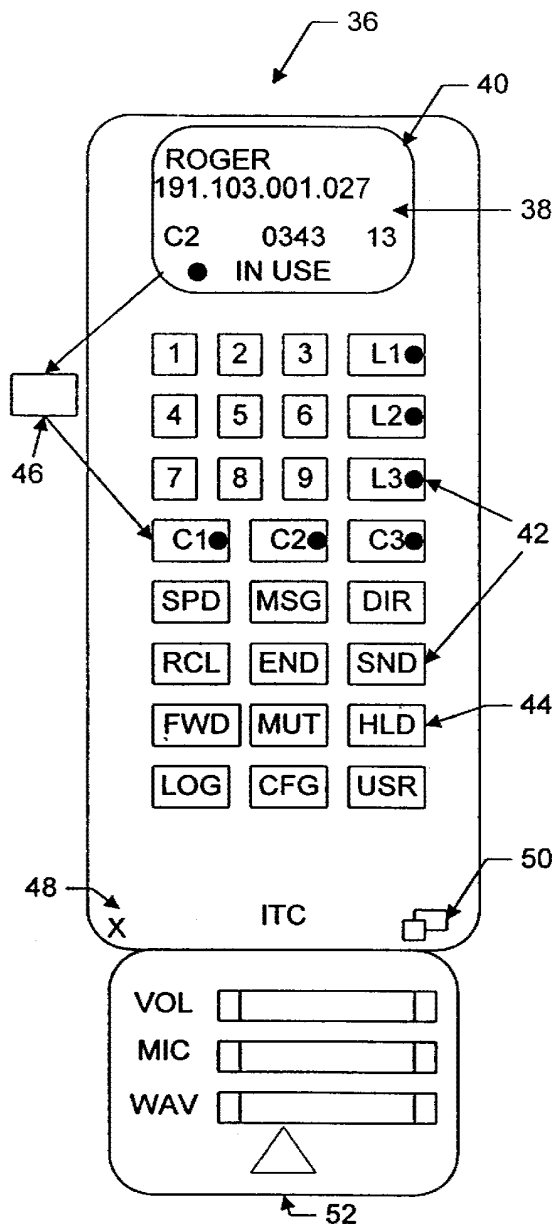


FIG. 5

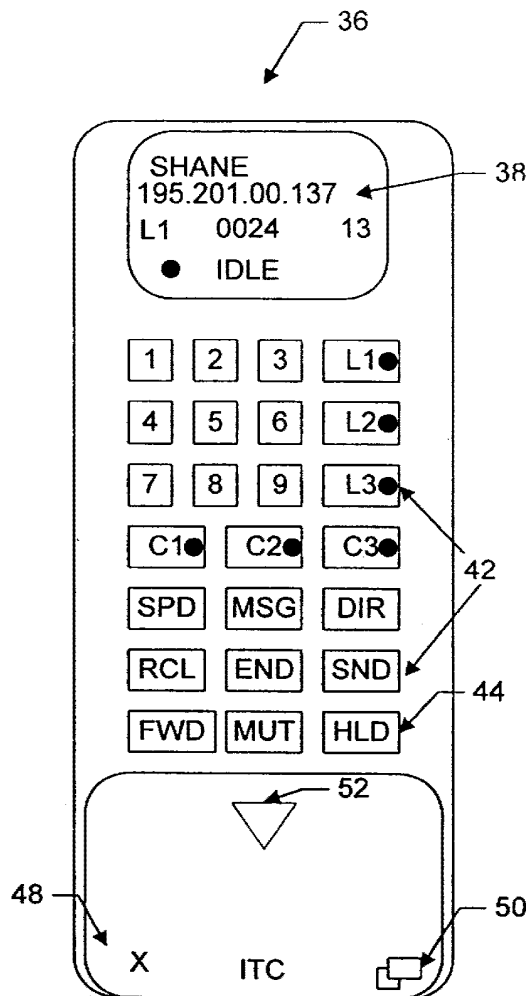


FIG. 6

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