



[54] POINT-TO-POINT INTERNET PROTOCOL

OTHER PUBLICATIONS

[75] Inventors: **Glenn W. Hutton**, Miami; **Shane D. Mattaway**, Boca Raton; **Craig B. Strickland**, Tamarac, all of Fla.

December & Randall, "The World Wide Web Unleashed," Samw Publishing, Indianapolis, IN, Dec. 1994, pp. 3-24.

[73] Assignee: **NetSpeak Corporation**, Boca Raton, Fla.

Heylighen, "WorldWideWeb: a distributed hypermedia paradigm for global networking," IEEE/INSPEC Database Updates and Additionss (1960-19950 Doc.# 134618: Proceedings SHARE Spring Conference, pp. 355-368, Apr. 1994.

[21] Appl. No.: **08/533,115**

Internetworking with TCP/IP, vol. 1, Second Edition, Principles, Protocols, and Architecture, by Douglas E. Comer; 1991; table of contents, pp. 1-3, 17-19, 311-333.

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[52] U.S. Cl. **709/227; 709/204**

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[58] **Field of Search** 395/200.01, 200.02, 395/200.09, 200.11, 200.15, 200.34, 200.35, 200.47, 200.48, 200.57, 200.58, 200.75; 709/204, 205, 217, 218, 227, 228, 235

[57] **ABSTRACT**

[56] **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 .

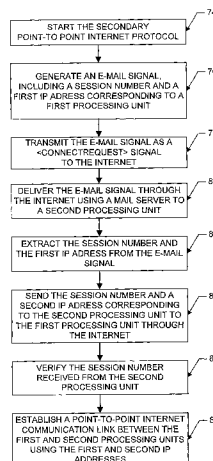
A point-to-point Internet protocol exchanges Internet Protocol (IP) addresses between processing units to establish a point-to-point communication link between the processing units through the Internet. A first point-to-point Internet protocol includes the steps of (a) storing in a database a respective IP address of a set of processing units that have an on-line status with respect to the Internet; (b) transmitting a query from a first processing unit to a connection server to determine the on-line status of a second processing unit; and (c) retrieving the IP address of the second unit from the database using the connection server, in response to the determination of a positive on-line status of the second processing unit, for establishing a point-to-point communication link between the first and second processing units through the Internet. A second point-to-point Internet protocol includes the steps of (a) transmitting an E-mail signal, including a first IP address, from a first processing unit; (b) processing the E-mail signal through the Internet to deliver the E-mail signal to a second processing unit; and (c) transmitting a second IP address to the first processing unit for establishing a point-to-point communication link between the first and second processing units through the Internet.

(List continued on next page.)

FOREIGN PATENT DOCUMENTS

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

44 Claims, 6 Drawing Sheets



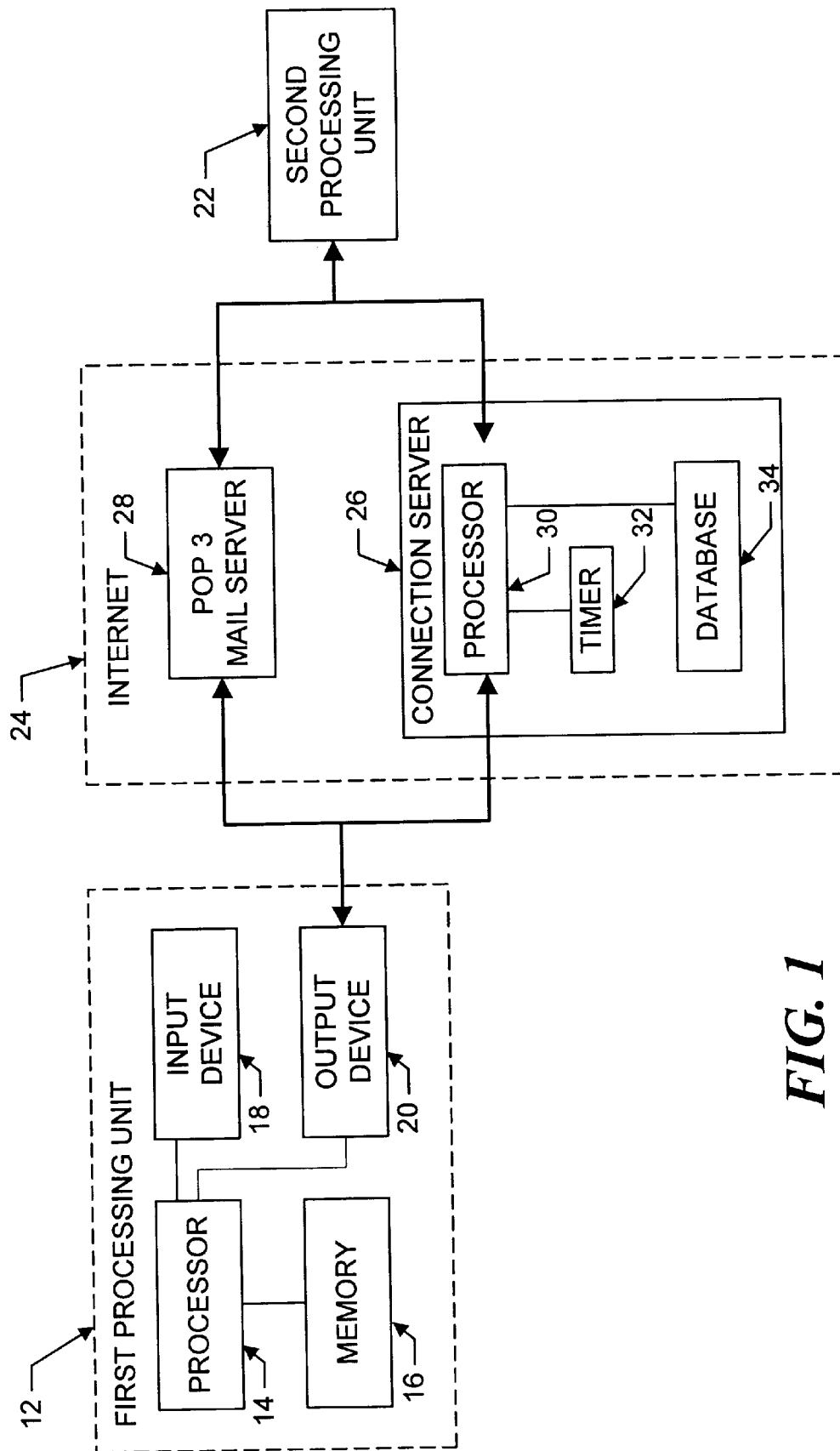


FIG. 1

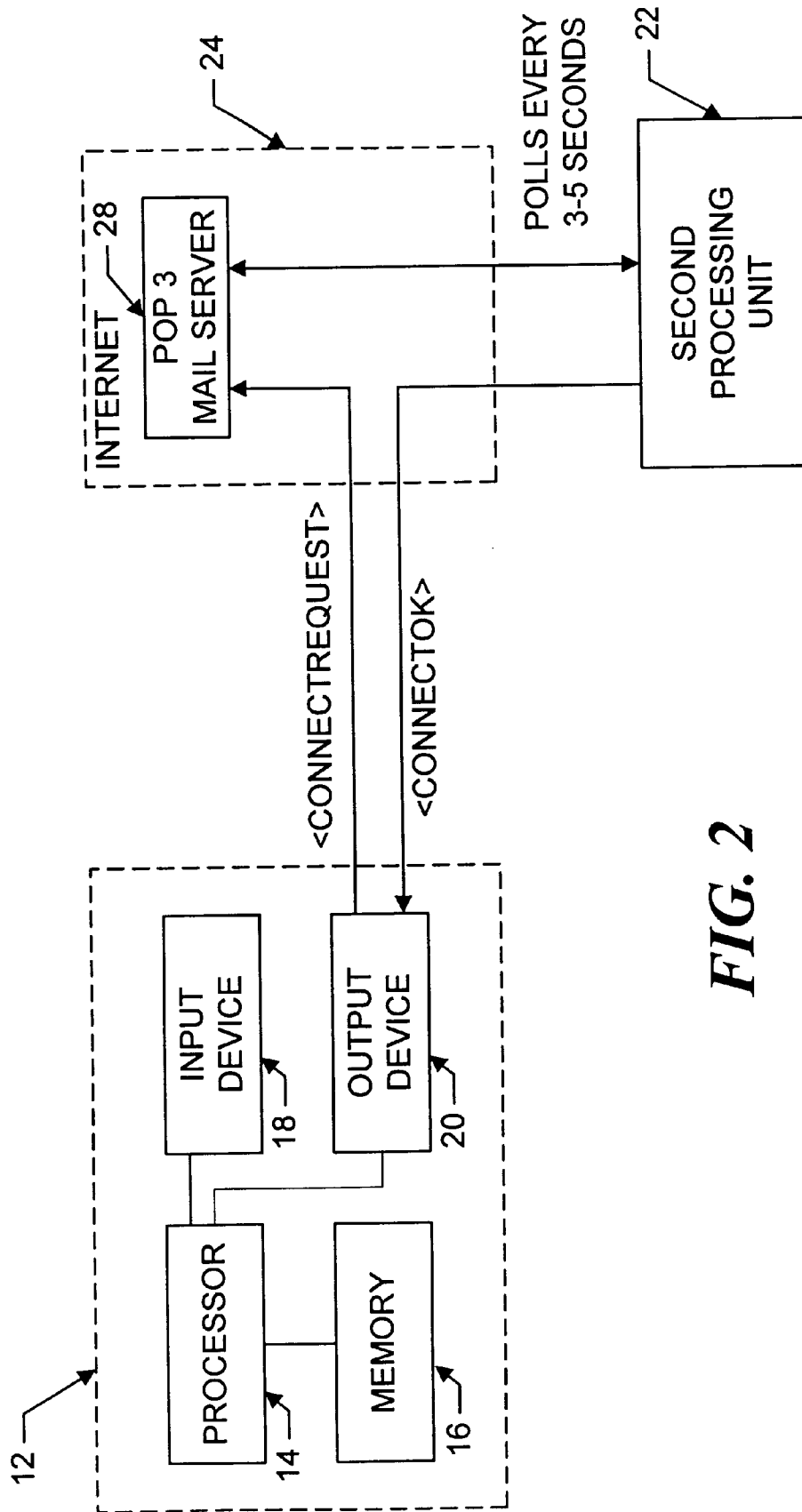


FIG. 2

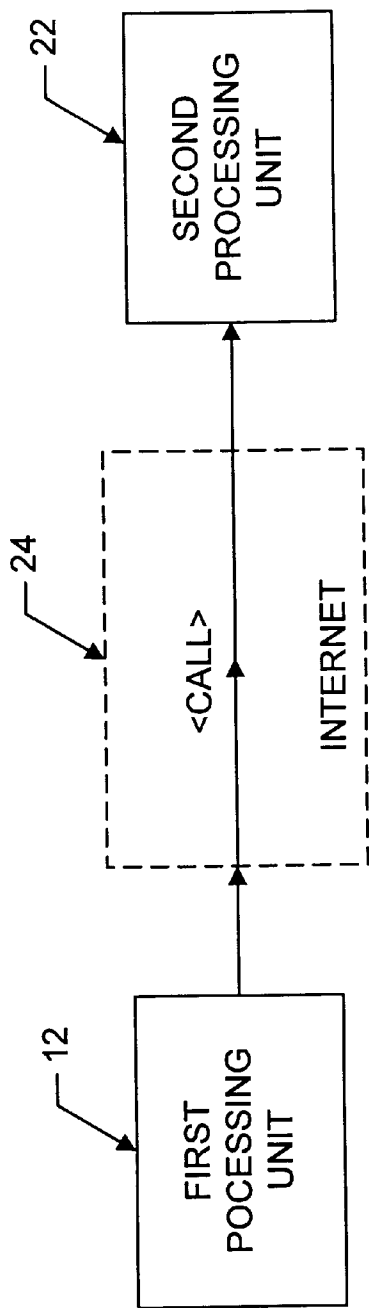


FIG. 3

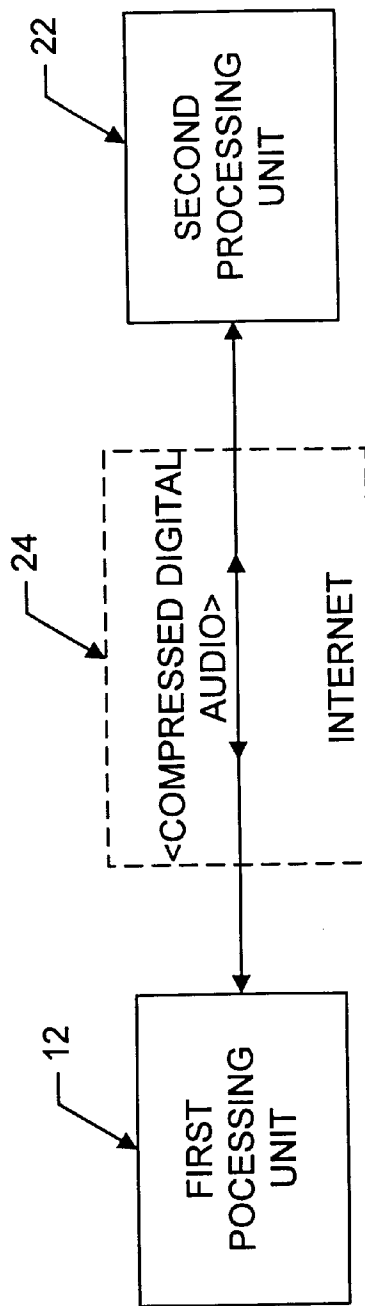


FIG. 4

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