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(54) **POINT-TO-POINT INTERNET PROTOCOL**

FOREIGN PATENT DOCUMENTS

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AU 200059377 A1 11/2000
AU 200059378 A1 11/2000
AU 200059379 A1 11/2000
EP 0455402 A2 11/1991
EP 0497022 A1 5/1992

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(Continued)

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OTHER PUBLICATIONS

“A Low Cost Solution for: Using your WAN as a Voice Communication Tool” VocalTec White Paper (dated Jun. 3, 1994).

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(57) **ABSTRACT**

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 unit through the Internet.

(52) **U.S. Cl.** **709/227; 709/204**

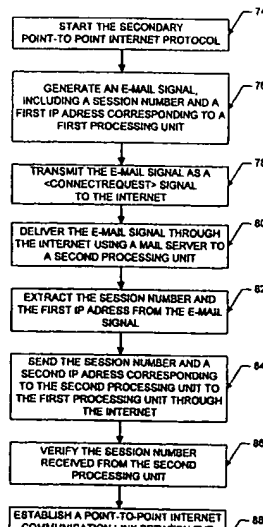
(58) **Field of Classification Search** None
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,313,035 A 1/1982 Jordan et al.
4,332,982 A 6/1982 Thomas
4,410,765 A 10/1983 Hestad et al.
4,423,414 A 12/1983 Bryant et al.
4,446,519 A 5/1984 Thomas
4,450,554 A 5/1984 Steensma et al.
4,468,529 A 8/1984 Samuel et al.
4,491,693 A 1/1985 Sano et al.
4,528,659 A 7/1985 Jones, Jr.
4,589,107 A 5/1986 Middleton et al.

(Continued)



U.S. PATENT DOCUMENTS

| | | | | | |
|-------------|---------|--------------------|-------------|---------|------------------------|
| 4,594,477 A | 6/1986 | Noirot | 5,247,620 A | 9/1993 | Fukuzawa et al. |
| 4,598,397 A | 7/1986 | Nelson et al. | 5,249,290 A | 9/1993 | Heizer |
| 4,602,132 A | 7/1986 | Nagatomi et al. | 5,274,635 A | 12/1993 | Rahman et al. |
| 4,630,262 A | 12/1986 | Callens et al. | 5,282,197 A | 1/1994 | Kreitzer |
| 4,652,703 A | 3/1987 | Lu et al. | 5,283,819 A | 2/1994 | Glick et al. |
| 4,653,090 A | 3/1987 | Hayden | 5,287,103 A | 2/1994 | Kasprzyk et al. |
| 4,654,483 A | 3/1987 | Imai et al. | 5,301,324 A | 4/1994 | Dewey et al. |
| 4,658,093 A | 4/1987 | Hellman | 5,305,312 A | 4/1994 | Fomek et al. |
| 4,694,492 A | 9/1987 | Wirstrom et al. | 5,315,705 A | 5/1994 | Iwami et al. |
| 4,706,274 A | 11/1987 | Baker et al. | 5,319,705 A | 6/1994 | Halter et al. |
| 4,740,963 A | 4/1988 | Eckley | 5,325,524 A | 6/1994 | Black et al. |
| 4,754,479 A | 6/1988 | Bicknell et al. | 5,327,486 A | 7/1994 | Wolff et al. |
| 4,755,985 A | 7/1988 | Jayapalan et al. | 5,329,619 A | 7/1994 | Page et al. |
| 4,756,020 A | 7/1988 | Fodale | 5,335,276 A | 8/1994 | Thompson et al. |
| 4,759,056 A | 7/1988 | Akiyama | 5,341,374 A | 8/1994 | Lewen et al. |
| 4,782,485 A | 11/1988 | Gollub | 5,347,632 A | 9/1994 | Filepp et al. |
| 4,799,153 A | 1/1989 | Hann et al. | 5,377,260 A | 12/1994 | Long |
| 4,800,488 A | 1/1989 | Agrawal et al. | 5,388,213 A | 2/1995 | Oppenheimer et al. |
| 4,809,271 A | 2/1989 | Kondo et al. | 5,396,485 A | 3/1995 | Ohno et al. |
| 4,813,040 A | 3/1989 | Futato | 5,402,477 A | 3/1995 | McMahan et al. |
| 4,819,228 A | 4/1989 | Baran et al. | 5,402,528 A | 3/1995 | Christopher et al. |
| 4,821,263 A | 4/1989 | Lundh | 5,408,526 A | 4/1995 | McFarland et al. |
| 4,823,374 A | 4/1989 | Verlohr | 5,408,619 A | 4/1995 | Oran |
| 4,827,411 A | 5/1989 | Arrowood | 5,410,754 A | 4/1995 | Favreau et al. |
| 4,829,554 A | 5/1989 | Barnes et al. | 5,425,028 A | 6/1995 | Britton et al. |
| 4,837,797 A | 6/1989 | Freeny, Jr. | 5,428,608 A | 6/1995 | Freeman et al. |
| 4,866,704 A | 9/1989 | Bergman | 5,432,846 A | 7/1995 | Norio |
| 4,866,732 A | 9/1989 | Carey et al. | 5,434,913 A | 7/1995 | Tung et al. |
| 4,873,715 A | 10/1989 | Shibata | 5,440,547 A | 8/1995 | Easki et al. |
| 4,887,265 A | 12/1989 | Felix | 5,440,632 A | 8/1995 | Bacon et al. |
| 4,890,282 A | 12/1989 | Lambert et al. | 5,446,891 A | 8/1995 | Kaplan et al. |
| 4,899,333 A | 2/1990 | Roediger | 5,446,919 A | 8/1995 | Wilkins |
| 4,899,373 A | 2/1990 | Lee et al. | 5,452,289 A | 9/1995 | Sharma et al. |
| 4,912,705 A | 3/1990 | Paneth et al. | 5,457,738 A | 10/1995 | Sylvan |
| 4,914,571 A | 4/1990 | Baratz et al. | 5,459,864 A | 10/1995 | Brent et al. |
| 4,928,306 A | 5/1990 | Biswas et al. | 5,461,611 A | 10/1995 | Drake, Jr. et al. |
| 4,932,022 A | 6/1990 | Keeney et al. | 5,461,668 A | 10/1995 | Zdenek et al. |
| 4,953,159 A | 8/1990 | Hayden | 5,465,286 A | 11/1995 | Clare et al. |
| 4,962,449 A | 10/1990 | Schlesinger | 5,467,388 A | 11/1995 | Redd et al. |
| 4,981,371 A | 1/1991 | Gurak et al. | 5,469,500 A | 11/1995 | Satter et al. |
| 4,989,230 A | 1/1991 | Gillig et al. | 5,473,531 A | 12/1995 | Flora-Holmquist et al. |
| 4,995,074 A | 2/1991 | Goldman et al. | 5,474,741 A | 12/1995 | Mikeska et al. |
| 5,031,089 A | 7/1991 | Liu et al. | 5,474,819 A | 12/1995 | Chambers et al. |
| 5,036,513 A | 7/1991 | Greenblatt | 5,475,741 A | 12/1995 | Davis et al. |
| 5,040,141 A | 8/1991 | Yazima et al. | 5,475,819 A | 12/1995 | Miller et al. |
| 5,056,140 A | 10/1991 | Kimbell | 5,481,720 A | 1/1996 | Loucks et al. |
| 5,065,425 A | 11/1991 | Lecomte et al. | 5,483,524 A | 1/1996 | Lev et al. |
| 5,107,443 A | 4/1992 | Smith et al. | 5,487,100 A | 1/1996 | Kane |
| 5,109,403 A | 4/1992 | Sutphin | 5,491,800 A | 2/1996 | Goldsmith et al. |
| 5,113,499 A | 5/1992 | Ankney et al. | 5,499,295 A | 3/1996 | Cooper |
| 5,121,385 A | 6/1992 | Tominaga et al. | 5,500,890 A | 3/1996 | Rogge et al. |
| 5,127,001 A | 6/1992 | Steagall et al. | 5,502,727 A | 3/1996 | Catanzaro et al. |
| 5,127,003 A | 6/1992 | Dell, Jr. et al. | 5,509,058 A | 4/1996 | Sestak et al. |
| 5,130,985 A | 7/1992 | Kondo et al. | 5,515,508 A | 5/1996 | Pettus et al. |
| 5,134,648 A | 7/1992 | Hochfield et al. | 5,517,432 A | 5/1996 | Chandra et al. |
| 5,136,716 A | 8/1992 | Harvey et al. | 5,524,141 A | 6/1996 | Braun et al. |
| 5,150,410 A | 9/1992 | Bertrand | 5,528,671 A | 6/1996 | Ryu et al. |
| 5,153,908 A | 10/1992 | Kakizawa et al. | 5,533,102 A | 7/1996 | Robinson et al. |
| 5,155,726 A | 10/1992 | Spinney et al. | 5,533,110 A | 7/1996 | Pinard et al. |
| 5,157,592 A | 10/1992 | Walters | 5,544,164 A | 8/1996 | Baran |
| 5,159,592 A | 10/1992 | Perkins | 5,544,322 A | 8/1996 | Cheng et al. |
| 5,164,988 A | 11/1992 | Matyas et al. | 5,546,448 A | 8/1996 | Caswell et al. |
| 5,185,860 A | 2/1993 | Wu | 5,546,452 A | 8/1996 | Andrews et al. |
| 5,187,591 A | 2/1993 | Guy et al. | 5,548,636 A | 8/1996 | Bannister et al. |
| 5,195,086 A | 3/1993 | Baumgartner et al. | 5,548,694 A | 8/1996 | Friskin Gibson |
| 5,212,789 A | 5/1993 | Rago | 5,555,290 A | 9/1996 | McLeod et al. |
| 5,214,650 A | 5/1993 | Renner et al. | 5,563,882 A | 10/1996 | Bruno et al. |
| 5,220,500 A | 6/1993 | Sacco et al. | 5,572,643 A | 11/1996 | Judson |
| | | | 5,574,774 A | 11/1996 | Abkhaz et al. |

| | | | | | |
|-------------|---------|--------------------|-------------|---------|---------------------|
| 5,581,702 A | 12/1996 | McArdle et al. | 5,768,527 A | 6/1998 | Zhu et al. |
| 5,586,257 A | 12/1996 | Perlman | 5,771,355 A | 6/1998 | Kuzma |
| 5,586,260 A | 12/1996 | Hu | 5,774,656 A | 6/1998 | Hattori et al. |
| 5,604,737 A | 2/1997 | Iwami et al. | 5,774,660 A | 6/1998 | Brendel et al. |
| 5,606,669 A | 2/1997 | Bertin et al. | 5,774,666 A | 6/1998 | Portuesi |
| 5,608,786 A | 3/1997 | Gordon | 5,778,181 A | 7/1998 | Hidary et al. |
| 5,614,940 A | 3/1997 | Cobbley et al. | 5,778,187 A | 7/1998 | Monteiro et al. |
| 5,615,257 A | 3/1997 | Pezzullo et al. | 5,784,564 A | 7/1998 | Camaisa et al. |
| 5,619,557 A | 4/1997 | Van Berkum | 5,784,619 A | 7/1998 | Evans et al. |
| 5,621,789 A | 4/1997 | McCalmont et al. | 5,787,253 A | 7/1998 | McCreery et al. |
| 5,623,483 A | 4/1997 | Agrawal et al. | 5,790,548 A | 8/1998 | Sistanizadeh et al. |
| 5,623,490 A | 4/1997 | Richter et al. | 5,790,792 A | 8/1998 | Dudgeon et al. |
| 5,623,605 A | 4/1997 | Keshav et al. | 5,790,793 A | 8/1998 | Higley |
| 5,625,407 A | 4/1997 | Biggs et al. | 5,790,803 A | 8/1998 | Kinoshita et al. |
| 5,627,978 A | 5/1997 | Altom et al. | 5,793,365 A | 8/1998 | Tang et al. |
| 5,636,282 A | 6/1997 | Holmquist et al. | 5,794,018 A | 8/1998 | Vrvilo et al. |
| 5,636,346 A | 6/1997 | Saxe | 5,794,257 A | 8/1998 | Liu et al. |
| 5,642,156 A | 6/1997 | Saiki | 5,796,394 A | 8/1998 | Wicks et al. |
| 5,644,629 A | 7/1997 | Chow | 5,799,063 A | 8/1998 | Krane |
| 5,649,194 A | 7/1997 | Miller et al. | 5,799,072 A | 8/1998 | Vulcan et al. |
| 5,651,006 A | 7/1997 | Fujino et al. | 5,799,150 A | 8/1998 | Hamilton et al. |
| 5,652,759 A | 7/1997 | Stringfellow, Jr. | 5,805,587 A | 9/1998 | Norris et al. |
| 5,655,120 A | 8/1997 | Witte et al. | 5,805,810 A | 9/1998 | Maxwell |
| 5,659,542 A | 8/1997 | Bell et al. | 5,805,822 A | 9/1998 | Long et al. |
| 5,659,596 A | 8/1997 | Dunn | 5,809,233 A | 9/1998 | Shur |
| 5,668,862 A | 9/1997 | Bannister et al. | 5,812,819 A | 9/1998 | Rodwin et al. |
| 5,671,412 A | 9/1997 | Christiano | 5,815,665 A | 9/1998 | Teper et al. |
| 5,671,428 A | 9/1997 | Muranaga et al. | 5,816,919 A | 10/1998 | Scagnelli et al. |
| 5,675,507 A | 10/1997 | Bobo | 5,818,510 A | 10/1998 | Cobbley et al. |
| 5,680,392 A | 10/1997 | Semaan | 5,818,836 A | 10/1998 | DuVal |
| 5,684,800 A | 11/1997 | Dobbins et al. | 5,819,084 A | 10/1998 | Shapiro et al. |
| 5,684,951 A | 11/1997 | Goldman et al. | 5,822,524 A | 10/1998 | Chen et al. |
| 5,689,553 A | 11/1997 | Ahuja et al. | 5,825,865 A | 10/1998 | Oberlander et al. |
| 5,689,641 A | 11/1997 | Ludwig et al. | 5,828,837 A | 10/1998 | Eikeland |
| 5,692,180 A | 11/1997 | Lee | 5,828,843 A | 10/1998 | Grimm et al. |
| 5,692,192 A | 11/1997 | Sudo | 5,828,846 A | 10/1998 | Kirby et al. |
| 5,694,594 A | 12/1997 | Chang | 5,832,119 A | 11/1998 | Rhoads |
| 5,701,463 A | 12/1997 | Malcolm | 5,832,240 A | 11/1998 | Larsen et al. |
| 5,708,422 A | 1/1998 | Blonder et al. | 5,835,720 A | 11/1998 | Nelson et al. |
| 5,708,655 A | 1/1998 | Toth et al. | 5,835,723 A | 11/1998 | Andrews et al. |
| 5,710,884 A | 1/1998 | Dedrick | 5,835,725 A | 11/1998 | Chiang et al. |
| 5,717,923 A | 2/1998 | Dedrick | 5,838,683 A | 11/1998 | Corley et al. |
| 5,719,786 A | 2/1998 | Nelson et al. | 5,838,970 A | 11/1998 | Thomas |
| 5,721,827 A | 2/1998 | Logan et al. | 5,841,769 A | 11/1998 | Okanoue et al. |
| 5,724,092 A | 3/1998 | Davidsohn et al. | 5,842,216 A | 11/1998 | Anderson et al. |
| 5,724,412 A | 3/1998 | Srinivasan | 5,844,978 A | 12/1998 | Reuss et al. |
| 5,724,506 A | 3/1998 | Cleron et al. | 5,848,143 A | 12/1998 | Andrews et al. |
| 5,724,648 A | 3/1998 | Shaughnessy et al. | 5,848,396 A | 12/1998 | Gerace |
| 5,726,984 A | 3/1998 | Kubler et al. | 5,854,901 A | 12/1998 | Cole et al. |
| 5,729,748 A | 3/1998 | Robbins et al. | 5,857,072 A | 1/1999 | Crowle |
| 5,732,078 A | 3/1998 | Arango | 5,864,684 A | 1/1999 | Nielsen |
| 5,734,828 A | 3/1998 | Pendse et al. | 5,867,156 A | 2/1999 | Beard et al. |
| 5,736,968 A | 4/1998 | Tsakiris | 5,867,654 A | 2/1999 | Ludwig et al. |
| 5,742,668 A | 4/1998 | Pepe et al. | 5,867,665 A | 2/1999 | Butman et al. |
| 5,742,675 A | 4/1998 | Kilander et al. | 5,872,850 A | 2/1999 | Klein et al. |
| 5,742,762 A | 4/1998 | Scholl et al. | 5,872,922 A | 2/1999 | Hogan et al. |
| 5,742,905 A | 4/1998 | Pepe et al. | 5,872,972 A | 2/1999 | Boland et al. |
| 5,745,642 A | 4/1998 | Ahn | 5,883,956 A | 3/1999 | Le et al. |
| 5,745,702 A | 4/1998 | Morozumi | 5,884,032 A | 3/1999 | Bateman et al. |
| 5,745,711 A | 4/1998 | Kitahara et al. | 5,884,035 A | 3/1999 | Butman et al. |
| 5,751,712 A | 5/1998 | Farwell et al. | 5,884,077 A | 3/1999 | Suzuki |
| 5,751,961 A | 5/1998 | Smyk | 5,890,162 A | 3/1999 | Huckins |
| 5,754,636 A | 5/1998 | Bayless et al. | 5,892,825 A | 4/1999 | Mages et al. |
| 5,754,939 A | 5/1998 | Herz et al. | 5,892,903 A | 4/1999 | Klaus |
| 5,758,110 A | 5/1998 | Boss et al. | 5,892,924 A | 4/1999 | Lyon et al. |
| 5,758,257 A | 5/1998 | Herz et al. | 5,903,721 A | 5/1999 | Sixtus |
| 5,761,606 A | 6/1998 | Wolzien | 5,903,723 A | 5/1999 | Beck et al. |
| 5,764,736 A | 6/1998 | Shachar et al. | 5,903,727 A | 5/1999 | Nielsen |
| 5,764,741 A | 6/1998 | Barak | 5,905,719 A | 5/1999 | Arnold et al. |

| | | | | | |
|--------------|---------|---------------------|-----------------|---------|---------------------|
| 5,905,872 A | 5/1999 | DeSimone et al. | 6,282,272 B1 | 8/2001 | Noonen et al. |
| 5,915,001 A | 6/1999 | Uppaluru | 6,289,369 B1 | 9/2001 | Sundaresan |
| 5,923,736 A | 7/1999 | Shachar | 6,300,863 B1 | 10/2001 | Cotichini et al. |
| 5,924,093 A | 7/1999 | Potter et al. | 6,338,078 B1 | 1/2002 | Chang et al. |
| 5,925,103 A | 7/1999 | Magallanes et al. | 6,343,115 B1 | 1/2002 | Foladare et al. |
| 5,928,327 A | 7/1999 | Wang et al. | 6,343,220 B1 | 1/2002 | Van Der Salm |
| 5,929,849 A | 7/1999 | Kikinis | 6,347,085 B2 | 2/2002 | Kelly |
| 5,937,162 A | 8/1999 | Funk et al. | 6,347,342 B1 | 2/2002 | Marcos et al. |
| 5,946,386 A | 8/1999 | Rogers et al. | 6,360,266 B1 | 3/2002 | Pettus |
| 5,946,629 A | 8/1999 | Sawyer et al. | 6,377,568 B1 | 4/2002 | Kelly |
| 5,950,123 A | 9/1999 | Schwelb et al. | 6,385,583 B1 | 5/2002 | Ladd et al. |
| 5,950,172 A | 9/1999 | Klingman | 6,393,455 B1 | 5/2002 | Eilert et al. |
| 5,953,350 A | 9/1999 | Higgins | 6,427,064 B1 | 7/2002 | Henderson |
| 5,956,482 A | 9/1999 | Agraharam et al. | 6,434,552 B1 | 8/2002 | Leong |
| 5,956,485 A | 9/1999 | Perlman | 6,463,565 B1 | 10/2002 | Kelly |
| 5,961,584 A | 10/1999 | Wolf | 6,477,586 B1 | 11/2002 | Achenson et al. |
| 5,964,872 A | 10/1999 | Turpin | 6,513,066 B1 | 1/2003 | Hutton et al. |
| 5,969,967 A | 10/1999 | Aahlad et al. | 6,594,254 B1 | 7/2003 | Kelly |
| 5,982,774 A | 11/1999 | Foladare et al. | 6,687,738 B1 | 2/2004 | Hutton |
| 5,983,005 A | 11/1999 | Monteiro et al. | 6,701,365 B1 | 3/2004 | Hutton |
| 5,999,965 A | 12/1999 | Kelly | 6,704,802 B1 | 3/2004 | Finch et al. |
| 6,005,870 A | 12/1999 | Leung | 6,728,784 B1 | 4/2004 | Mattaway |
| 6,006,257 A | 12/1999 | Slezak | 6,772,335 B2 | 8/2004 | Curtis et al. |
| 6,009,469 A | 12/1999 | Mattaway et al. | 6,829,645 B1 | 12/2004 | Hutton |
| 6,014,379 A | 1/2000 | White et al. | 6,888,836 B1 | 5/2005 | Cherkasova |
| 6,014,710 A | 1/2000 | Talluri et al. | 6,909,708 B1 | 6/2005 | Krishnaswamy et al. |
| 6,016,393 A | 1/2000 | White et al. | 2003/0050075 A1 | 3/2003 | Rangarajan et al. |
| 6,018,768 A | 1/2000 | Ullman et al. | 2004/0204146 A1 | 10/2004 | Deeds |
| 6,018,771 A | 1/2000 | Hayden | 2005/0032435 A1 | 2/2005 | Tischer et al. |
| 6,021,126 A | 2/2000 | White et al. | 2005/0130611 A1 | 6/2005 | Lu et al. |
| 6,026,086 A | 2/2000 | Lancelot et al. | | | |
| 6,026,425 A | 2/2000 | Suguri et al. | | | |
| 6,029,175 A | 2/2000 | Chow et al. | | | |
| 6,031,836 A | 2/2000 | Haserodt | | | |
| 6,032,192 A | 2/2000 | Wegner et al. | | | |
| 6,041,345 A | 3/2000 | Levi et al. | | | |
| 6,047,054 A | 4/2000 | Bayless et al. | | | |
| 6,047,292 A | 4/2000 | Kelly et al. | | | |
| 6,055,594 A | 4/2000 | Lo et al. | | | |
| 6,061,716 A | 5/2000 | Moncreiff | | | |
| 6,064,975 A | 5/2000 | Moon et al. | | | |
| 6,065,048 A | 5/2000 | Highley | | | |
| 6,067,350 A | 5/2000 | Gordon | | | |
| 6,069,890 A | 5/2000 | White et al. | | | |
| 6,085,217 A | 7/2000 | Ault et al. | | | |
| 6,101,182 A | 8/2000 | Sistanizadeh et al. | | | |
| 6,105,053 A | 8/2000 | Kimmel et al. | | | |
| 6,108,704 A | 8/2000 | Hutton et al. | | | |
| 6,122,255 A | 9/2000 | Bartholomew et al. | | | |
| 6,125,113 A | 9/2000 | Farris et al. | | | |
| 6,131,121 A | 10/2000 | Mattaway et al. | | | |
| 6,137,877 A | 10/2000 | Robin et al. | | | |
| 6,141,341 A | 10/2000 | Jones et al. | | | |
| 6,151,643 A | 11/2000 | Cheng et al. | | | |
| 6,154,445 A | 11/2000 | Farris et al. | | | |
| 6,163,316 A | 12/2000 | Killian | | | |
| 6,173,044 B1 | 1/2001 | Hortensius et al. | | | |
| 6,178,453 B1 | 1/2001 | Mattaway et al. | | | |
| 6,181,689 B1 | 1/2001 | Choung et al. | | | |
| 6,185,184 B1 | 2/2001 | Mattaway et al. | | | |
| 6,188,677 B1 | 2/2001 | Oyama et al. | | | |
| 6,195,357 B1 | 2/2001 | Polcyn | | | |
| 6,198,303 B1 | 3/2001 | Rangasayee | | | |
| 6,205,135 B1 | 3/2001 | Chinni et al. | | | |
| 6,212,625 B1 | 4/2001 | Russell | | | |
| 6,226,678 B1 | 5/2001 | Mattaway et al. | | | |
| 6,226,690 B1 | 5/2001 | Banda et al. | | | |
| 6,240,444 B1 | 5/2001 | Fin et al. | | | |
| 6,243,373 B1 | 6/2001 | Turock | | | |

FOREIGN PATENT DOCUMENTS

| | | |
|----|------------|---------|
| EP | 0518596 | 12/1992 |
| EP | 0556012 A2 | 8/1993 |
| EP | 0559047 | 9/1993 |
| EP | 0581722 | 2/1994 |
| EP | 0597691 | 5/1994 |
| EP | 0632672 | 1/1995 |
| EP | 0648038 | 4/1995 |
| EP | 1379039 A2 | 1/2004 |
| EP | 1379050 A2 | 1/2004 |
| GB | 2283645 | 5/1995 |
| JP | 5944140 | 3/1984 |
| JP | 63-131637 | 3/1988 |
| JP | 6-62020 | 3/1994 |
| WO | WO-9003074 | 3/1990 |
| WO | WO-9219054 | 10/1992 |
| WO | WO-9422087 | 9/1994 |
| WO | WO-9714234 | 4/1997 |
| WO | WO-9811704 | 3/1998 |

OTHER PUBLICATIONS

- "CyberPhone Announcement" Internet Posting in Newsgroups comp.speech, Jun. 8, 1995.
- "CyberPhone!" Internet Posting in Newsgroup comp.speech, Apr. 14, 1995.
- "Electric Magic Company Provides Internet Alternative to Long-Distance Calls", Electric Magic Company Press Release (Mar. 13, 1995).
- "Electric Magic Company Releases NetPhone 1.2 and Netpub Server", Electric Magic Company Press Release (Jun. 1995).
- "Frequently-Asked Questions about Tribal Voices PowWow" Version 0.34, Mar. 4, 1996.
- "Frequently-Asked Questions about Tribal Voices PowWow" Version 0.43, May 1, 1996.

- "Frequently-Asked Questions about Tribal Voices PowWow" Version 0.47, Jun. 12, 1996.
- "Frequently-Asked Questions about Tribal Voices PowWow" Version 0.48, Jun. 25, 1996.
- "Frequently-Asked Questions about Tribal Voices PowWow" Version 0.59, Oct. 30, 1996.
- "NetPhone Gets Internet Users Talking at Local Rates" MacUser UK, Mar. 3, 1995, p. 27.
- "NetPhone Gives Your Mac Voice Over the Internet" Inside the Internet Rocket Science for the Rest of Us. vol. 2, No. 3, Jun. 1995.
- "NetPhone" MacWorld, Jul. 1995.
- "NetPhone" West Coast Online, Ver. 3.02 (#26), Apr. 1995.
- "PowWow 1.3b Now Available!" Google Newsgroup comp.os.ms-windows.misc Discussion Posting (dated Apr. 22, 1995).
- 1996-1997 Buyer's Guide, CTI for Management.
- Abbe Cohen, Inessential Zephyr (Aug. 23, 1993).
- Adam Gaffin, VocalTec Ware Lets Users Make Voice Calls over 'Net, Network World (Feb. 13, 1995).
- Alexander Schill, ed., DCE—The OSF Distributed Computer Environment: Client/Server Model and Beyond, Lecture Notes in Computer Science 731, Karlsruhe University (1993).
- Analysis of DCE Security Draft (Sep. 18, 1996).
- Andrew D. Birrell, et al., Grapevine: An Exercise in Distributed Computing, Communications of the ACM (Apr. 1982).
- Andrew D. Birrell, et al., Grapevine: An Exercise in Distributed Computing, Communications of the ACM, vol. 25, No. 4, Apr. 1982.
- Andrew D. Birrell, et al., Implementing Remote Procedure Calls, ACM Transactions on Computer Systems (Feb. 1984).
- Andrew S. Tanenbaum, Computer Networks, 2d ed. (Prentice-Hall, 1988).
- Andy Patrizio, Telecom, Digital Limits Begin to Blur with 'Phone Calls' Across Internet, PC Week, vol. 12, No. 6 (Feb. 13, 1995).
- Antonio Ruiz, Voice and Telephony Applications for the Office Workstation, IEEE 1st International Conference on Computer Workstations, San Jose, California (Nov. 11-14, 1985).
- AVC-650: Technical Issues Concerning Real-Time Protocol in H.32Z Systems in ATM and Other Packet-Switched Computer Networks, Jul. 9, 1994.
- AVC-655: Communication Procedure for H.222.1, Jul. 1, 1994.
- AVC-666: H.32X Communication Modes, Terminal Types and Interworking Scenarios, Jul. 1994.
- AVC-683: Update Draft H.32Z Following Grimstad Meeting, Nov. 1994.
- AVC-696: An Example of Call Setup Procedure in a H.32Z Terminal, Nov. 1994.
- AVC-702: Terminal to Terminal Signaling in H.32X, Oct. 24, 1994.
- AVC-707R: Report of the Seventeenth Experts Group Meeting in Singapore (Jul. 1-11, 1994)—Part I and Part II, Nov. 11, 1994.
- AVC-716: Draft Recommendation H.32X, Jan. 1995.
- AVC-718: Draft H.32X, Jan. 1995.
- AVC-743R: Report of the Eighteenth Experts Group Meeting in Kamifukuoka (Jan. 24-27, 1995), Jan. 27, 1995.
- AVC-750: Report of the Study Group 15 Meeting Held During Feb. 6-17, 1995, Feb. 24, 1995.
- AVC-752: Open Issues Towards the Stockholm Meeting, Mar. 17, 1995.
- AVC-758: Draft Recommendation H.323 Visual Telephone Systems and Terminal Equipment for Local Area Networks Which Provide A Non-Guaranteed Quality of Service, Rev. May 12, 1995.
- AVC-767: Logical Channel Set-up Procedure, Apr. 28, 1995.
- AVC-799: Comments on Draft H.323 and H.22Z, May 11, 1995.
- AVC-800R: Report of the Nineteenth Experts Group Meeting in Haninge (May 15-18, 1995), May 18, 1995.
- AVC-813: Signaling Recommendation Within the Scope of H.323, Sep. 10, 1995.
- AVC-819: LAN Addressing Plan in H.323, Sep. 10, 1995.
- AVC-830: Connection Management Procedures for H.323, Oct. 24-27, 1995.
- AVC-842: Gateway, Gatekeeper and Terminal Procedures in H.323, Oct. 17, 1995.
- Avnish Aggarwal, et al., RFC 1002: Protocol Standard for a NetBIOS Service on a TCP/UDP Transport: Detailed Specifications (Mar. 1987).
- Barbara Darrow, Internet Phone Chat Software Prompts Spat: IRC Operators Rebuffed Use of Their Systems, Computer Reseller News (Mar. 20, 1995).
- Barry Michael Arons, The Audio-Graphical Interface to a Personal Integrated Telecommunications System, Masters Thesis, Massachusetts Institute of Technology (Jun. 1984).
- Barry Phillips, Casting the Net for New Media, OEM Magazine, No. 320 (1995).
- Belville, Sharon, "Zephyr on Athena", Athena Documentation, Sep. 10, 1991, Version 3.
- Ben Mesander, et al., The Client-To-Client Protocol (Aug. 12, 1994).
- Bill Welsh, H.245 Implementors' Guide (undated but references Apr. 1996).
- Bob Blakley's Email to sig-dce-security, DCE Delegation Proposal Review, Jul. 7, 1992.
- Brad Curtis Johnson, A Distributed Computing Environment Framework: An OSF Perspective (1991).
- Brent Nordin, et al., Remote Operation Across a Network of Small Computers (Association of Computing Machinery, 1986).
- Brian Fox, et al., GNU Finger program documentation, Free Software Foundation (1992).
- Bruce Brown, BugNet Bug/Fix List, Newsbytes (Dec. 13, 1995).
- Bruce Brown, BugNet Bug/Fix List, Newsbytes (Dec. 13, 1996).
- Butler W. Lampson, et al., A Distributed Systems Architecture for the 1990's (Dec. 17, 1989).
- Buy Memory Configured Expressly for Your Computer, San Jose Mercury News (Jul. 16, 1995).
- C. Anthony DellaFera, et al., Section E.4.1: Zephyr Notification Service, Athena Technical Plan (Jul. 29, 1988).
- C. Anthony DellaFera, et al., Section E.4.1: Zephyr Notification Service, Project Athena Technical Plan (Jun. 5, 1989).
- C. Anthony DellaFera, et al., The Athena Notification Service: Zephyr (1987).

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