



US006108704C1

(12) **EX PARTE REEXAMINATION CERTIFICATE (7825th)**

United States Patent

(10) **Number: US 6,108,704 C1**

Hutton et al.

(45) **Certificate Issued: Oct. 26, 2010**

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

FOREIGN PATENT DOCUMENTS

(75) **Inventors:** **Glenn W. Hutton**, Miami, FL (US);
Shane D. Mattaway, Boca Raton, FL (US); **Craig B. Strickland**, Tamarac, FL (US)

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

(73) **Assignee:** **Net2Phone, Inc.**, Newark, NJ (US)

(Continued)

Reexamination Request:

No. 90/010,416, Feb. 17, 2009

OTHER PUBLICATIONS

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

(Continued)

Reexamination Certificate for:

Patent No.: **6,108,704**
Issued: **Aug. 22, 2000**
Appl. No.: **08/533,115**
Filed: **Sep. 25, 1995**

Primary Examiner—Alexander J Kosowski

(51) **Int. Cl.**

H04M 1/57 (2006.01)
H04L 12/58 (2006.01)
H04L 29/06 (2006.01)

(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**

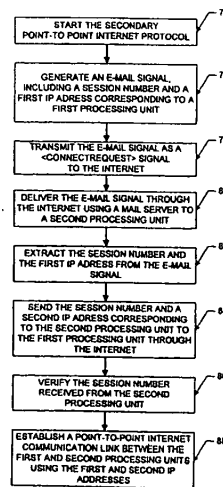
(58) **Field of Classification Search** None
See application file for complete search history.

(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	Pinar 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.
5,220,599 A	6/1993	Sasano et al.	5,572,643 A	11/1996	Judson
5,241,594 A	8/1993	Kung	5,574,774 A	11/1996	Ahlberg et al.
5,241,625 A	8/1993	Epard et al.	5,574,934 A	11/1996	Mirashrafi et al.
			5,581,522 A	12/1996	Sibuya 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	Vrvido 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.
5,764,756 A	6/1998	Onweller	5,905,736 A	5/1999	Ronen et al.
5,767,897 A	6/1998	Howell	5,905,865 A	5/1999	Palmer et al.

5,905,872 A 5/1999 DeSimone et al.
 5,915,001 A 6/1999 Uppaluru
 5,923,736 A 7/1999 Shachar
 5,924,093 A 7/1999 Potter et al.
 5,925,103 A 7/1999 Magallanes et al.
 5,928,327 A 7/1999 Wang et al.
 5,929,849 A 7/1999 Kikinis
 5,937,162 A 8/1999 Funk et al.
 5,946,386 A 8/1999 Rogers et al.
 5,946,629 A 8/1999 Sawyer et al.
 5,950,123 A 9/1999 Schwelb et al.
 5,950,172 A 9/1999 Klingman
 5,953,350 A 9/1999 Higgins
 5,956,482 A 9/1999 Agraharam et al.
 5,956,485 A 9/1999 Perlman
 5,961,584 A 10/1999 Wolf
 5,964,872 A 10/1999 Turpin
 5,969,967 A 10/1999 Aahlad et al.
 5,982,774 A 11/1999 Foladare et al.
 5,983,005 A 11/1999 Monteiro et al.
 5,999,965 A 12/1999 Kelly
 6,005,870 A 12/1999 Leung
 6,006,257 A 12/1999 Slezak
 6,009,469 A 12/1999 Mattaway et al.
 6,014,379 A 1/2000 White et al.
 6,014,710 A 1/2000 Talluri et al.
 6,016,393 A 1/2000 White et al.
 6,018,768 A 1/2000 Ullman et al.
 6,018,771 A 1/2000 Hayden
 6,021,126 A 2/2000 White 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
 6,266,539 B1 7/2001 Pardo
 6,275,490 B1 8/2001 Mattaway et al.

6,282,272 B1 8/2001 Noonen et al.
 6,289,369 B1 9/2001 Sundaresan
 6,300,863 B1 10/2001 Cotichini et al.
 6,338,078 B1 1/2002 Chang et al.
 6,343,115 B1 1/2002 Foladare et al.
 6,343,220 B1 1/2002 Van Der Salm
 6,347,085 B2 2/2002 Kelly
 6,347,342 B1 2/2002 Marcos et al.
 6,360,266 B1 3/2002 Pettus
 6,377,568 B1 4/2002 Kelly
 6,385,583 B1 5/2002 Ladd et al.
 6,393,455 B1 5/2002 Eilert et al.
 6,427,064 B1 7/2002 Henderson
 6,434,552 B1 8/2002 Leong
 6,463,565 B1 10/2002 Kelly
 6,477,586 B1 11/2002 Achenson et al.
 6,513,066 B1 1/2003 Hutton et al.
 6,594,254 B1 7/2003 Kelly
 6,687,738 B1 2/2004 Hutton
 6,701,365 B1 3/2004 Hutton
 6,704,802 B1 3/2004 Finch et al.
 6,728,784 B1 4/2004 Mattaway
 6,772,335 B2 8/2004 Curtis et al.
 6,829,645 B1 12/2004 Hutton
 6,888,836 B1 5/2005 Cherkasova
 6,909,708 B1 6/2005 Krishnaswamy et al.
 2003/0050075 A1 3/2003 Rangarajan et al.
 2004/0204146 A1 10/2004 Deeds
 2005/0032435 A1 2/2005 Tischer et al.
 2005/0130611 A1 6/2005 Lu et al.

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 Pow-Wow" Version 0.34, Mar. 4, 1996.
 "Frequently-Asked Questions about Tribal Voices Pow-Wow" Version 0.43, May 1, 1996.
 "Frequently-Asked Questions about Tribal Voices Pow-Wow" Version 0.45, May 31, 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.322 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.322 Following Grimstad Meeting, Nov. 1994.
- AVC-696: An Example of Call Setup Procedure in a H.322 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-748: Update of Draft Recommendation H.322, May 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).
- C. Anthony DellaFera, et al., The Athena Notification Service: Zephyr (Dec. 31, 1987).

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.