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(12) United States Patent Jang et al.

(54) MULTIPLE SUBSCRIBER VIDEOCONFERENCING SYSTEM

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(51) Int. Cl.⁷ H04L 12/16

(56) References Cited

U.S. PATENT DOCUMENTS

5,838,664 A	11/1998	Polomski
5,867,494 A	2/1999	Krishnaswamy et al.
5,867,495 A	2/1999	Elliott et al.
5,903,302 A	* 5/1999	Browning et al 348/14.08
5,999,525 A	12/1999	Krishnaswamy et al.
5,999,966 A	* 12/1999	McDougall et al 709/204
6,025,870 A	* 2/2000	Hardy 348/14.1
6,078,810 A	* 6/2000	Olds et al 455/428
6,097,719 A	8/2000	Benash et al.

(10) Patent No.: US 6,980,526 B2

(45) **Date of Patent:** Dec. 27, 2005

6,147,988 A	11/2000	Bartholomew et al.	
6,157,401 A	12/2000	Wiryaman	
6,188,687 B1*	2/2001	Mussman et al 3	70/388
6,205,135 B1	3/2001	Chinni et al.	
6,262,978 B1*	7/2001	Bruno et al 3	70/260
6,373,850 B1*	4/2002	Lecourtier et al 3	70/409

OTHER PUBLICATIONS

"Next Generation IP Conferencing Services" Ridgeway Systems & Software white paper, 1999.

James Toga and Hani ElGebaly, "Demystifying Multimedia Conferencing Over the Internet Using the H.323 Set of Standards," *Intel Technology Journal Q2 '98*, pp. 1-11.

www.teleconferencemag.com/html/issues/issues2000/
dec_2000/1200view.html, Dec. 2000.

www.teleconferencemag.com/html/issues/issues2000/
dec_2000/1200view.html, Nov. 2000.

www.teleconferencemag.com/html/issues/issues2000/
dec_2000/1200 view.html, Oct. 2000.

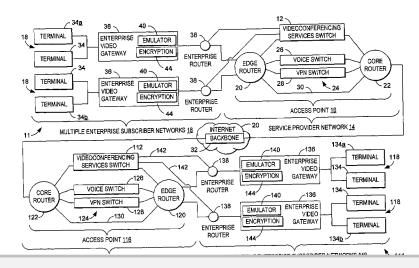
(Continued)

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(57) ABSTRACT

A system, method, and device for use in videoconferencing. The method typically includes installing a videoconferencing services switch at an access point to an IP network, and registering a plurality of subscribers for videoconferencing services. Each subscriber typically has a plurality of endpoints. The method further includes receiving subscriber-specific settings to be applied to multiple videoconferencing calls from the plurality of endpoints associated with each subscriber. The method further includes storing the subscriber-specific settings at a location accessible to the switch, and configuring the switch to connect calls from the plurality of endpoints at each subscriber based on the corresponding subscriber-specific settings.

26 Claims, 10 Drawing Sheets





OTHER PUBLICATIONS

www.q.../1,720,,00.html?printVersion=1&xmlFilename=2000 May11274

&storyId=27, May 2000.

biz.yahoo.com/prnews/010207/ca_interna.html.

"Multiprotocol Label Switching Architecture," ftp.isi.edu/in-notes/rfc3031.txt, Jan. 2001.

"BGP/MPLS VPNs," ftp.isi.edu/in-notes/rfc2547.txt, Jan. 2001

"Firewall Vulnerability and Network Protection for Streaming and Emerging UDP Applications," Networking Systems Laboratory NEC USA, Inc., Aug. 2000.

"High Performance H.323 Firewalling for VoIP Solutions," Aravox Technologies.

"IP Service Intelligence at the Edge," Copper Mountain Networks, Inc. and Spring Tide Networks, Inc.

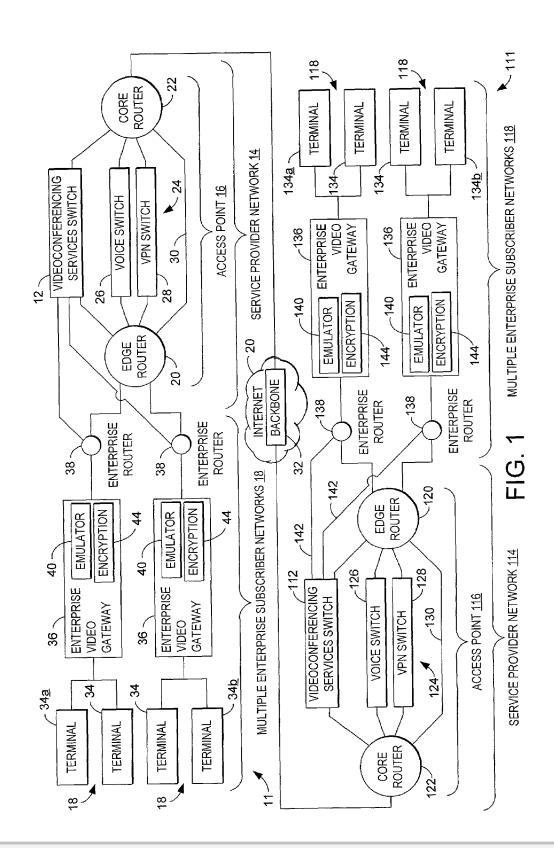
"IP and Frame Relay: Bridging the Gap for Seamless and Secure Virtual Private Networking," CoSine Communications white paper.

"H.323 and Firewalls: Problem Statement and Solution Framework," ftp.yars.free.net/pub/doc/Drafts/draft-shore-h323-firewalls-00.txt.gz, Feb. 3, 2000.

"H.323 and Firewalls: The problems and pitfalls of getting H.323 safely through firewalls," Intel Corporation, Revision 2.0, Mar. 21, 2001.

* cited by examiner







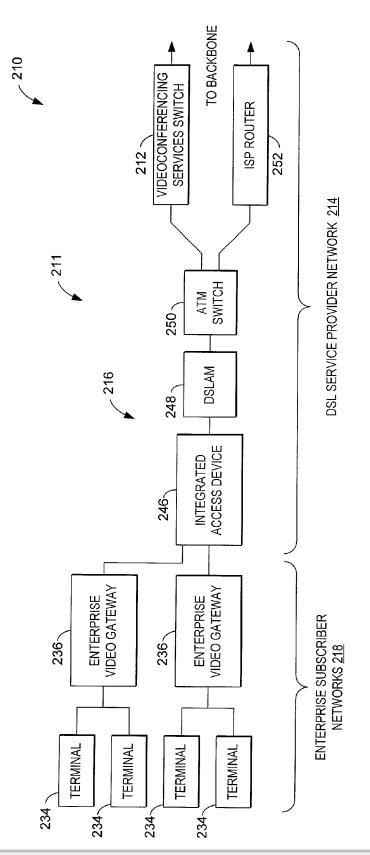
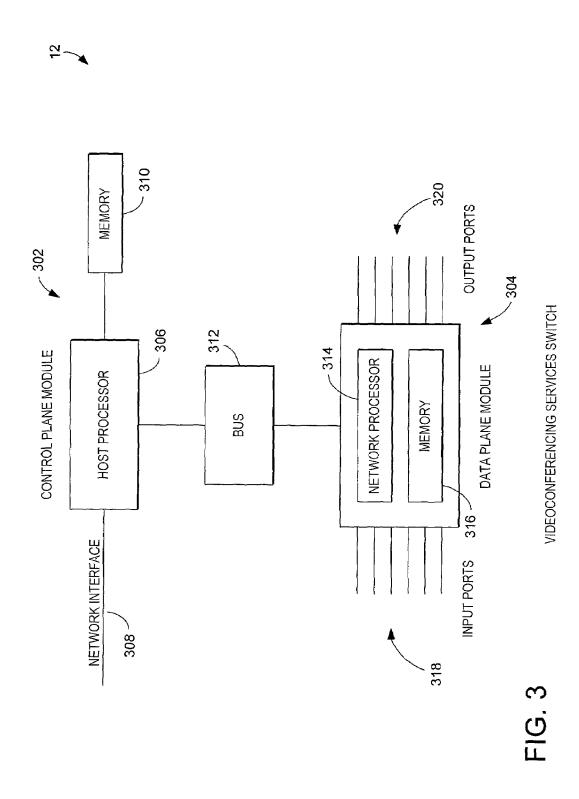


FIG. 2





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