



(12) **United States Patent**  
**Burger et al.**

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(54) **VOICE CALL PROCESSING METHODS**

**OTHER PUBLICATIONS**

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(US)

8x8, Inc. (Feb. 15, 2000), "*IP Telephony: Audacity-T2 IP Phone Processor*," 1-3. Available Web Site: [www/8x8.com/iptelephony/audacityT2.html](http://www/8x8.com/iptelephony/audacityT2.html).

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(List continued on next page.)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(57) **ABSTRACT**

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(52) **U.S. Cl.** ..... **379/88.17; 379/90.01; 379/201.11; 370/352**

(58) **Field of Search** ..... 379/67.1, 88.17, 379/88.22, 88.25, 90.01, 93.01, 93.24, 201.01, 201.11, 210.03, 211.01, 211.02, 212.01, 214.01; 370/912, 352, 353, 354, 355, 356; 709/227

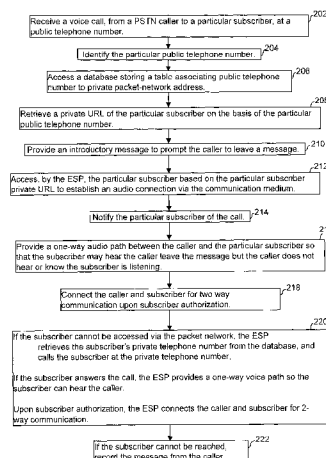
A call screening method allows a subscriber to screen calls made to the subscriber from callers using the PSTN while the subscriber uses another communications medium. An enhanced services platform (ESP) receives a first call from a caller using a particular public telephone number for the particular subscriber. The ESP identifies the particular public telephone number for the particular subscriber. The ESP accesses a database storing a public telephone number and a private packet-based address for subscribers to retrieve a private packet-based address of the particular subscriber on the basis of the particular public telephone number. An introductory message is provided to the caller and prompts the caller to leave a message. The ESP accesses the particular subscriber based on the particular subscriber private packet-based address to establish an audio connection via the communication medium. The subscriber is notified of the first call. If the subscriber answers the call, a communication path is provided between the caller and the subscriber via the communication medium so that the subscriber may hear the caller leave the message but the caller does not hear or know that the particular subscriber is listening. The ESP connects the caller and the subscriber for two-way communication upon the authorization of the subscriber. In another embodiment, both the caller and the subscriber use a packet-based network. In another aspect of the invention, the ESP records the caller's voice in response to the prompt, and plays the recording to the subscriber if the subscriber answers the call. In yet another aspect of the invention, the ESP provides a method for anonymously connecting an accesser to a subscriber using a packet-based network.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,847,890	A	7/1989	Solomon et al.	
4,878,239	A	10/1989	Solomon et al.	
5,058,152	A	10/1991	Solomon et al.	
5,327,486	A *	7/1994	Wolff et al. ....	379/93.23
5,361,295	A	11/1994	Solomon et al.	
5,581,553	A	12/1996	Cave et al.	
5,604,792	A	2/1997	Solomon et al.	
5,623,536	A	4/1997	Solomon et al.	
5,796,806	A	8/1998	Birckbichler	
5,805,587	A *	9/1998	Norris et al. ....	370/352
5,809,128	A	9/1998	McMullin	
5,818,836	A *	10/1998	DuVal .....	370/389
5,907,677	A *	5/1999	Glenn .....	709/206
6,088,435	A *	7/2000	Barber et al. ....	379/205.01
6,144,644	A *	11/2000	Bajzath et al. ....	370/259
6,259,692	B1 *	7/2001	Shtivelman et al. ....	370/352
2001/0026609	A1 *	10/2001	Weinstein et al. ....	379/93.01

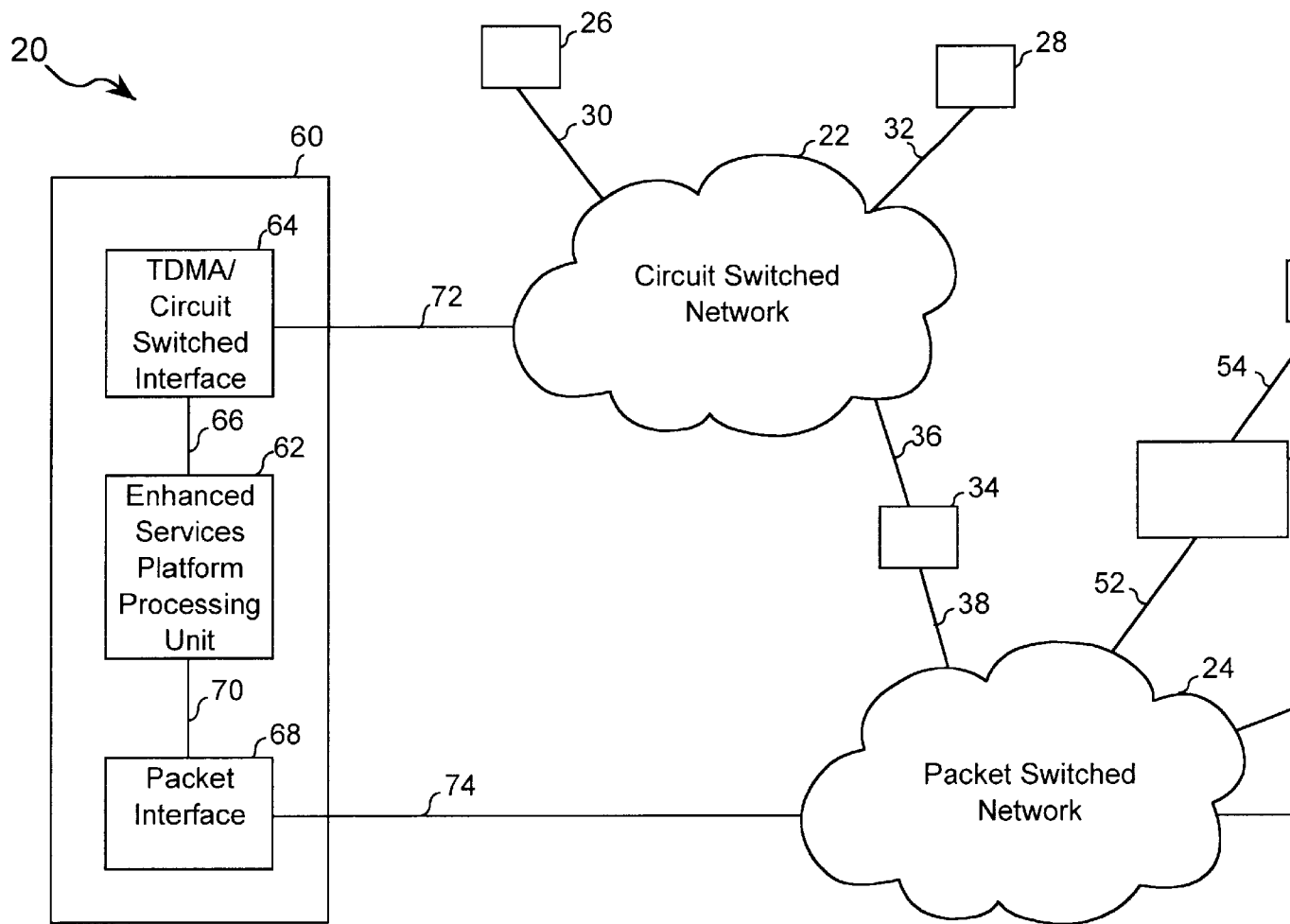
**64 Claims, 16 Drawing Sheets**



## OTHER PUBLICATIONS

- Siemens (Feb. 15, 2000), "*HiNet LP 5100: LAN-Telephon*," 1-2. Available Web Site: [www.siemens.de/ic/db4web\\_c/productdb/user/list.d4w?Nr=375](http://www.siemens.de/ic/db4web_c/productdb/user/list.d4w?Nr=375).
- Siemens AG (1999), "*IP Communication HiNet: HiNet LP 5100 IP Telephone*," 4 pgs.
- AT&T Chat 'N Talk: Home Page, "*AT&T Inter@ctive Communications Trial*," 1 page, Last modified on Dec. 1, 1998.
- AT&T Chat 'N Talk: What Is It?, "*AT&T Inter@ctive Communications Trial: What Is It?*," 1 page, Last modified on Dec. 1, 1998.
- AT&T Chat 'N Talk: Pricing, "*AT&T Inter@ctive Communications Trial: What Does It Cost?*," 1 page, Last modified on Oct. 29, 1998.
- AT&T Chat 'N Talk: What Do I Need?, "*AT&T Inter@ctive Communications Trial: What Do I Need?*," 1-2, Last modified on Dec. 1, 1998.
- AT&T Chat 'N Talk: How Do I Use It?, "*AT&T Inter@ctive Communications Trial: How Do I Use It?*," 1-2, Last modified on Dec. 1, 1998.
- AT&T Chat 'N Talk: Help Overview?, "*AT&T Inter@ctive Communications Trial: Help*," 1 page, Last modified on Jul. 7, 1998.
- AT&T Chat 'N Talk: FAQs?, "*AT&T Inter@ctive Communications Trial: Frequently Asked Questions?*," 1-3, Last modified on Dec. 1, 1998.
- AT&T Chat 'N Talk: Cool Sites, "*AT&T Inter@ctive Communications Trial: Cool Sites*," 1-3, Last modified on Jun. 5, 1998.
- Vocal Telephony Gateway—Intro, "*The VocalTec Telephony Gateway*," 1-1, Accessed on Dec. 17, 1998.
- Vocal Telephony Gateway—What Is The Voca . . . , "*What is it?*" 1-2, Accessed on Dec. 17, 1998.
- Vocal Telephony Gateway—Series, "*30/120/480 Series*," 1-2, Accessed on Dec. 17, 1998.
- Vocal Telephony Gateway—Applications, "*Solutions and Applications*," 1-2, Accessed on Dec. 17, 1998.
- Vocal Telephony Gateway—Requirements, "*Hardware Requirements*," Accessed on Dec. 17, 1998.
- The Electric Magic Company: Home Page, Accessed on Dec. 17, 1998, 1-2.
- Cisco Systems, Inc., "*Cisco AS5300 Voice Gateway*," 1-7, Posted Jul. 1, 1998.
- Cisco Systems, Inc., "*The VolP Multiservice ATM Architecture*," 1-6, Posted Apr. 27, 1998.
- Cisco Systems, Inc., "*AS5300 Series Access Servers*," 1-2, Accessed on Oct. 25, 1998.
- Dialogic—Standards, "*IP Standards*," 1-4, Accessed on Oct. 25, 1998.
- Wincroft Inc. (1998), "*Internet Telephony Software Product Range fro . . . : Products*," 1 page, Accessed on Dec. 17, 1998.
- Advanstar Communications (Jun. 15, 1998), "*America's Network: Real-world VOIP*," 1-5, Accessed on Oct. 25, 1998.
- Advanstar Communications (Jun. 15, 1998), "*America's Network: Real-world VOIP; Figure 1—Deep Fiber Solutions*," 1 page, Accessed on Oct. 25, 1998.
- Advanstar Communications (Jun. 15, 1998), "*America's Network: Real-world VOIP; Figure 2—Deep Fiber Solutions*," 1 page, Accessed on Oct. 25, 1998.
- Cisco Systems, Inc. (1992), "*Cisco AS5200/AS5300 Family Universal Access S . . . : Cisco AS5200/AS5300 Family Universal Access Servers*," 1-10, Accessed on Oct. 25, 1998.
- Cisco Systems, Inc. (1998), "*Voice/Fax Feature Card for the Cisco AS5300*," 1-10, Accessed on Oct. 25, 1998.
- Mecklermedia Corporation (1998), "*H.323—PC Webopædia Definition and Links: Still looking for a new job?*," 1-2, Accessed on Nov. 2, 1998.
- pulver.com, Inc. (1998), "*The Pulver Points: Pulver Points™ on the Internet Telephony Industry*," (Sep. 1, 1998—Version 1.21), 1-2, Accessed on Nov. 2, 1998.
- DataBeam Corporation, "*A Primer on the H.323 Series Standard: A Primer on the H.323 Series Standard*," Version 2.0, 1-20, Accessed on Nov. 2, 1998.
- DataBeam Corporation, Available Web Site: [http://gw.databeam.com/h323/images/fig1\\_large](http://gw.databeam.com/h323/images/fig1_large) . . . 1-1, Accessed on Nov. 2, 1998.
- DataBeam Corporation, Available Web Site: [http://gw.databeam.com/h323/images/fig2\\_large](http://gw.databeam.com/h323/images/fig2_large) . . . 1-1, Accessed on Nov. 2, 1998.
- DataBeam Corporation, Available Web Site: [http://gw.databeam.com/h323/images/fig3\\_large](http://gw.databeam.com/h323/images/fig3_large) . . . 1-1, Accessed on Nov. 2, 1998.
- DataBeam Corporation, Available Web Site: [http://gw.databeam.com/h323/images/fig4\\_large](http://gw.databeam.com/h323/images/fig4_large) . . . 1-1, Accessed on Nov. 2, 1998.
- DataBeam Corporation, Available Web Site: [http://gw.databeam.com/h323/images/fig5\\_large](http://gw.databeam.com/h323/images/fig5_large) . . . 1-1, Accessed on Nov. 2, 1998.
- DataBeam Corporation, Available Web Site: [http://gw.databeam.com/h323/images/fig6\\_large](http://gw.databeam.com/h323/images/fig6_large) . . . 1-1, Accessed on Nov. 2, 1998.
- DataBeam Corporation, H.323 Product Information, "*H.323 Version 2—Overview*," 1-6, Accessed on Nov. 2, 1998.
- Inside IMTC, "*H.323 ITU Standards*," 1-3, Accessed on Nov. 2, 1998.

\* cited by examiner



**FIG. 1**

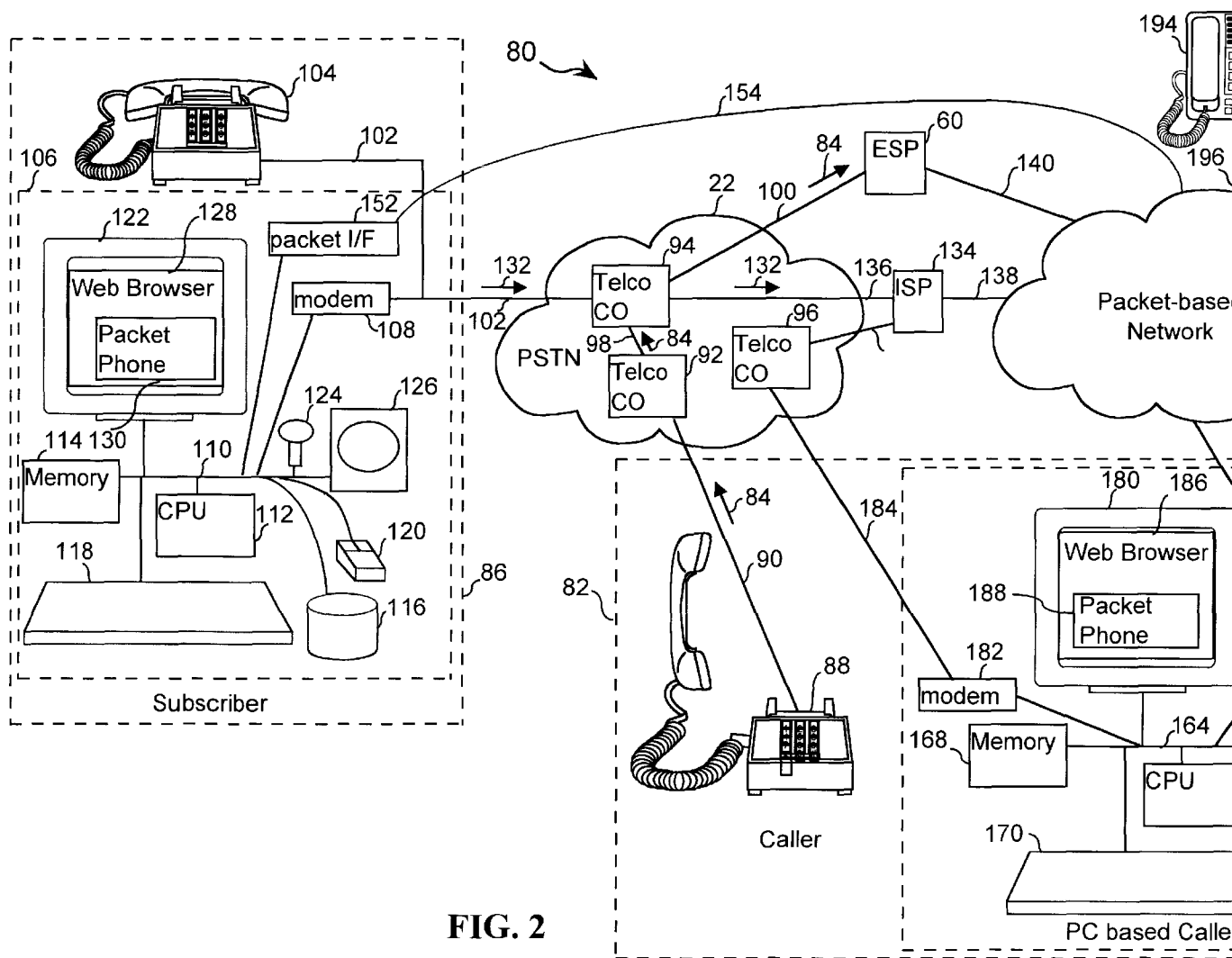


FIG. 2

URL



protocol://hostname:port/path\_to\_resource

**FIG. 3A**

protocol://username:password@hostname:port/path\_to\_resource

**FIG. 3B**

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