

US006353660B1

(12) United States Patent

Burger et al.

(10) **Patent No.:**

US 6,353,660 B1

(45) Date of Patent:

Mar. 5, 2002

VOICE CALL PROCESSING METHODS

Inventors: Eric William Burger, McLean, VA (US); John Kimball, Gaithersburg, MD

(US)

(73) Assignee: SS8 Networks, Inc., San Jose, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

(21)Appl. No.: 09/517,304

(22)Filed: Mar. 2, 2000

Int. Cl.⁷ H04M 3/436

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

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

(56)**References Cited**

U.S. PATENT DOCUMENTS

4,847,890	Α		7/1989	Solomon et al.
4,878,239	Α		10/1989	Solomon et al.
5,058,152	Α		10/1991	Solomon et al.
5,327,486	Α	*	7/1994	Wolff et al 379/93.23
5,361,295	Α		11/1994	Solomon et al.
5,581,553	Α		12/1996	Cave et al.
5,604,792	Α		2/1997	Solomon et al.
5,623,536	Α		4/1997	Solomon et al.
5,796,806	Α		8/1998	Birckbichler
5,805,587	Α	*	9/1998	Norris et al 370/352
5,809,128	Α		9/1998	McMullin
5,818,836	Α	*	10/1998	DuVal 370/389
5,907,677	Α	*	5/1999	Glenn 709/206
6,088,435	Α	*	7/2000	Barber et al 379/205.01
6,144,644	Α	*	11/2000	Bajzath et al 370/259
6,259,692	B1	*	7/2001	Shtivelman et al 370/352
001/0026609	A 1	*	10/2001	Weinstein et al 379/93.01

OTHER PUBLICATIONS

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

(List continued on next page.)

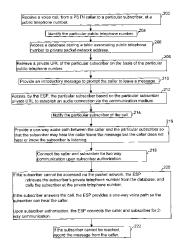
Primary Examiner—Scott L. Weaver

(74) Attorney, Agent, or Firm-Pennie & Edmonds LLP

ABSTRACT

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 packetbased 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.

64 Claims, 16 Drawing Sheets





20

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.

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 '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 Webopaedia 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 . . . 1–1, Accessed on Nov. 2, 1998.

DataBeam Corporation, Available Web Site: 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 . . . 1–1, Accessed on Nov. 2, 1998.

DataBeam Corporation, Available Web Site: 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 . . . 1–1, Accessed on Nov. 2, 1998.

DataBeam Corporation, Available Web Site: 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



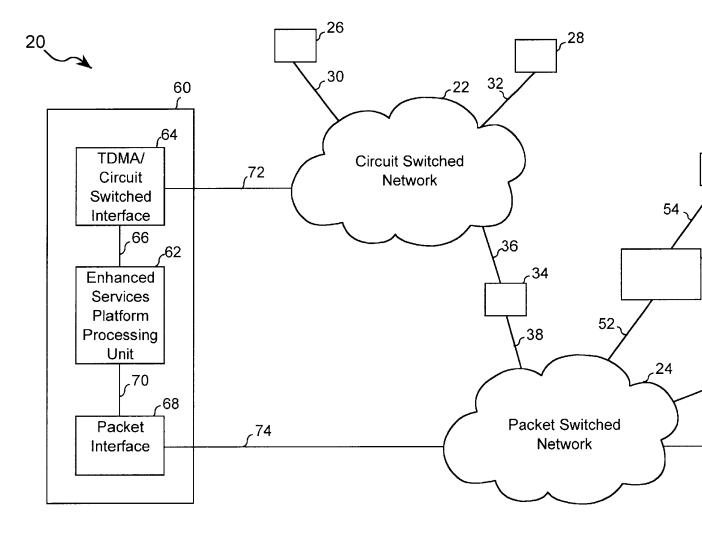
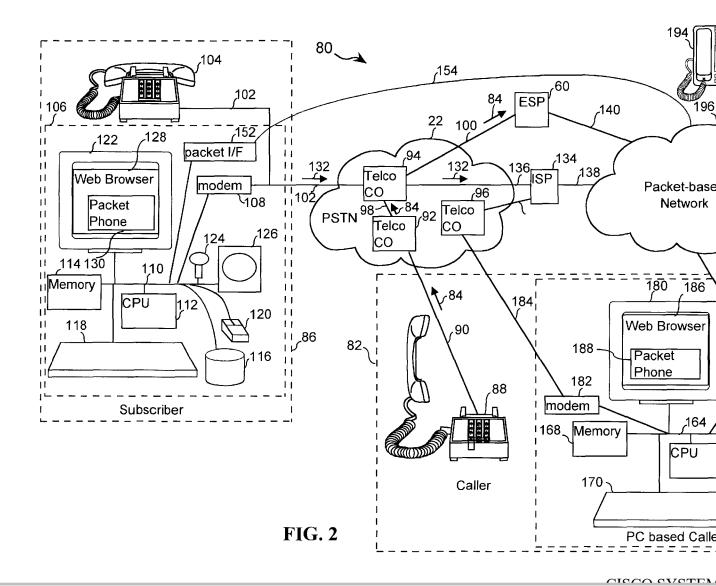


FIG. 1







URL

protocol://hostname:port/path_to_resource

FIG. 3A

protocol://username:password@hostname:port/path_to_resource

FIG. 3B



DOCKET A L A R M

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.

