

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 8,848,894 B2
APPLICATION NO. : 13/358353
DATED : September 30, 2014
INVENTOR(S) : Samuel F. Wood, Jerry A. Klein and Margaret Susan Asprey

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title Page

In Item (56) References Cited, under Foreign Patent Documents, page 4, line 79, column 2, please delete "WO99135802" and insert --WO099/35802--.

Signed and Sealed this
Seventeenth Day of March, 2015



Michelle K. Lee
Director of the United States Patent and Trademark Office

YMAX EXHIBIT 1037
YMAX CORP. V. FOCAL IP
IPR2016-01258

000001



BLAKELY SOKOLOFF
TAYLOR ZAFMAN LLP

12400 Wilshire Boulevard, Seventh Floor
Los Angeles, California 90025
TEL 310.207.3800 | FAX 310.820.5988
www.bstz.com | mail@bstz.com

December 17, 2014

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Re: Certificate of Correction
US Patent No. **8848894**
Issued: **September 30, 2014**
For: Tandem Access Controller Within The Public Switched Telephone
Network
Inventor: Samuel F. Wood, et al.
Our Docket No. **2964P081**

Dear Sir/Madam:

Enclosed is a Certificate of Correction for the above-referenced patent.

This request for correction is made under rule 322 of the Rules of Practice and
35 U.S.C. Section 254.

Very truly yours,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Farzad E. Amini
Reg. No. 42261

I hereby certify that this correspondence is being submitted
electronically via EFS Web on the date shown below.

Ingrid A. Blaauw 12/18/14
Date

Enclosure

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 8848894
APPLICATION NO.: 13/358,353
ISSUE DATE : September 30, 2014
INVENTOR(S) : Samuel F. Wood; Jerry A. Klein; Margaret Susan Asprey

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Item (56) References Cited, under Foreign Patent Documents, page 4 at the last line of column 2, please delete "WO99135802" and insert --WO099/35802--.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
1279 Oakmead Parkway
Sunnyvale, CA 94085
Telephone: (310) 207-3800

Based on PTO/SB/44 (04-05) as modified by Blakely, Solokoff, Taylor & Zafman (wlr) 11/30/2005.
SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Docket No. 2964P081

000003

Electronic Acknowledgement Receipt

EFS ID:	21002431
Application Number:	13358353
International Application Number:	
Confirmation Number:	7896
Title of Invention:	Tandem Access Controller Within The Public Switched Telephone Network
First Named Inventor/Applicant Name:	Samuel F. Wood
Customer Number:	8791
Filer:	Farzad Etemad Amini/Ingrid Blaauw
Filer Authorized By:	Farzad Etemad Amini
Attorney Docket Number:	002964.P081
Receipt Date:	18-DEC-2014
Filing Date:	25-JAN-2012
Time Stamp:	13:18:11
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Certificate of Correction	2964p081COC.pdf	43994 <small>aa3f6d9ce288b7286a7fe4b2babfbd6f20c2504</small>	no	2

Warnings:

Information:

000004

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/358,353	09/30/2014	8848894	002964.P081	7896

8791 7590 09/10/2014
BLAKELY SOKOLOFF TAYLOR & ZAFMAN
1279 Oakmead Parkway
Sunnyvale, CA 94085-4040

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Samuel F. Wood, Los Altos, CA;
Jerry A. Klein, Los Altos, CA;
Margaret Susan Asprey, Los Altos, CA;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

FORM PTO-1449 LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. TLM-103C1CON2	SERIAL NO. 11/428,822
	APPLICANT: Samuel F. WOOD, et al.	
	FILING DATE: July 5, 2006	GROUP: 2651 2614

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	2001/0022784A1	09-2001	Menon et al.	-----	-----	-----
	2001/0030950A1	10-2001	Chen et al.	-----	-----	-----
Change(s) applied to document, /G.R.P./ 7/8/2014	2003/0026403A1	11-2003 02-2003	Clapper	-----	-----	-----
	2003/0040325A1	02-2003	Clark	-----	-----	-----
	2003/0095650A1	05-2003	Mize	-----	-----	-----
	2003/0133553A1	07-2003	Khakoo et al.	-----	-----	-----
	2003/0156693A1	08-2003	Goldman	-----	-----	-----
	2003/0194078A1	10-2003	Wood et al.	-----	-----	-----
	2004/0029568A1	02-2004	DeLuca et al.	-----	-----	-----
	2005/0041526A1	02-2005	Esmersoy et al.	-----	-----	-----
	2005/0141500A1	06-2005	Bhandari et al.	-----	-----	-----
	2005/0169445A1	08-2005	Harris	-----	-----	-----
	2005/0207557A1	09-2005	Dolan et al.	-----	-----	-----
	4,313,035	01-1982	Jordan et al.	-----	-----	-----
	4,348,554	09-1982	Asmuth	-----	-----	-----
	4,611,094	09-1986	Asmuth et al.	-----	-----	-----
	4,611,096	09-1986	Asmuth et al.	-----	-----	-----
	4,953,198	08-1990	Daly et al.	-----	-----	-----
	4,973,837	11-1990	Bradbeer	-----	-----	-----
	5,297,191	03-1994	Gerszberg	-----	-----	-----
	5,311,582	05-1994	Davenport et al.	-----	-----	-----
	5,428,663	06-1995	Grimes et al.	-----	-----	-----

EXAMINER: /Sonia Gay/	DATE CONSIDERED: 12/17/2012
EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant	

FORM PTO-1449 LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. TLM-103C1CON2	SERIAL NO. 11/428,822
	APPLICANT: Samuel F. WOOD, et al.	
	FILING DATE: July 5, 2006	GROUP: 2651 2614

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE	
	6,857,021	02-2005	Schuster Shuster et al.	-----	-----	-----	
	6,857,072	02-2005	Shuster et al.	-----	-----	-----	
	6,870,830	03-2005	Shuster et al.	-----	-----	-----	
	6,914,897	07-2005	Shuster et al.	-----	-----	-----	
	6,937,699	08-2005	Shuster et al.	-----	-----	-----	
	6,956,941	10-2005	Duncan et al.	-----	-----	-----	

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATI YE	NO
	DE19813179	09-1999	DE	-----	-----	X	
	EP0578374	01-1994	EP	-----	-----		
	EP0704788	04-1996	EP	-----	-----		
	EP0738093	10-1996	EP	-----	-----		
	EP0858202	08-1998	EP	-----	-----		
	EP0869688	10-1998	EP	-----	-----		
	EP0881848	12-1998	EP	-----	-----		
	EP0898431	02-1999	EP	-----	-----		
	EP0918423	10-1998	EP	-----	-----		
	WO/0184859	11-2001	WO	-----	-----		
	WO01/024496	04-2001	WO	-----	-----		
	WO01/024498	04-2001	WO	-----	-----		
	WO01/024500	04-2001	WO	-----	-----		
	WO01/024501	04-2001	WO	-----	-----		

EXAMINER:	DATE CONSIDERED: 12/17/2012
EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant	

FORM PTO-1449 LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. TLM-103C1CON2	SERIAL NO. 11/428,822
	APPLICANT: Samuel F. WOOD, et al.	
	FILING DATE: July 5, 2006	GROUP: 2614 2651

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE	
	4,310,726	01-12-1982	Asmuth	179	18	02-04-1980	
	5,673,262	09-30-1997	Shimizu	370	395	11-07-1995	
	5,848,140	12-08-1998	Foladare et al.	379	201	12-29-1995	
	5,991,310	11-1999 07-09-1997	Katko	370	522	07-09-1997	
	2007/0041526	02-2007	Hill et al.	379	88.21	10-27-2006	

Change(s) applied to document, /G.R.P./ 7/8/2014

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
EXAMINER INITIAL		
	1	Dowden, Douglas C., et al., "The Future of Network-Provided Communications Services," <i>Bell Labs Technical Journal</i> , July-September 2000, pp. 3-10
	2	Foard, C.F., "Teaming Switches and Computers for Customer Applications," <i>AT&T Technology</i> , 1991; 6, 4; Research Library, pp. 32-38
	3	Foster, Robin Harris, "Computer-Telephone Integration Goes Global," <i>AT&T Technology</i> , Autumn 1995; 10, 3; Research Library, pp. 18-22
	4	Kozik, Jack, et al., "On Opening PSTN to Enhanced Voice/Data Services - The PINT Protocol Solution," <i>Bell Labs Technical Journal</i> , July-September 2000, pp. 153-165
	5	Lui, Anthony Y., et al., "The Enhanced Service Manager: A Service Management System for Next-Generation Networks," <i>Bell Labs Technical Journal</i> , July-September 2000, pp. 130-144
	6	Reisfield, E.S., "Customers Take Control of the AT&T Network," <i>AT&T Technology</i> , 1991; 6, 1; Research Library, pp. 44-48
	7	Sijben, Paul G., et al., "Bridging the Gap to IP Telephony," <i>Bell Labs Technical Journal</i> , October-December 1998, pp. 192-207

EXAMINER: /Sonia Gay/	DATE CONSIDERED: 12/17/2012
EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant	

U.S. DEPT. OF COMMERCE Patent and Trademark Office INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	Atty. Docket No.: 357323-990127	Serial No.: 13/358,353
	Applicants: WOOD, Samuel F. et al.	
	Filing Date: January 25, 2012	Group Art Unit: 2614 2651

U.S. PATENT DOCUMENTS

Examiners Initials	Patent Number/ Publication Number	Date	Name	Class	Subclass	Filing Date
	5,396,542	07 Mar 1995	Alger			
	5,907,811	25 May 1999	Foladare			
	6,243,373	05 Jun 2001	Turock			
	6,438,124	20 Aug 2002	Wilkes			
	6,498,797	24 Dec 2002	Anerousis			
	6,577,718	03 Dec 1985	Goubaud	06-2003	Kalmanek, Jr. et al.	
	6,775,264	10 Aug 2004	Kurganov			
	6,775,284	10 Aug 2004	Calvignac			
	6,807,257	19 Oct 2004	Kurganov			
	6,816,582	09 Nov 2004	Levine			
	6,937,713	30 Aug 2005	Kung			
	7,184,527	27 Feb 2007	Lin			
	7,233,658	19 Jun 2007	Koser			

Change(s) applied
to document,
/G.R.P./
7/8/2014

FOREIGN PATENT DOCUMENTS

Document number	Date	Country	Class	Sub-class	Translation

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner: /Sonia Gay/	Date Considered: 12/17/2012
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP '609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
 or **Fax** (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

8791 7590 05/27/2014
BLAKELY SOKOLOFF TAYLOR & ZAFMAN
 1279 Oakmead Parkway
 Sunnyvale, CA 94085-4040

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

Margaux Wolson	(Depositor's name)
	(Signature)
August 22, 2014	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/358,353	01/25/2012	Samuel F. Wood	002964.P081	7896

TITLE OF INVENTION: Tandem Access Controller Within The Public Switched Telephone Network

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0	\$0	\$480	08/27/2014

EXAMINER	ART UNIT	CLASS-SUBCLASS
GAY, SONIA L	2651	379-211010

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
 Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
 "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list
 (1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1 Blakely, Sokoloff, Taylor & Zafman, LLP
 (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE Focal IP, LLC (B) RESIDENCE: (CITY and STATE OR COUNTRY) Wilmington, Delaware

Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

4a. The following fee(s) are submitted:

- Issue Fee
- Publication Fee (No small entity discount permitted)
- Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- A check is enclosed.
- Payment by credit card. Form PTO-2038 is attached.
- The Director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 02-2666 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- Applicant certifying micro entity status. See 37 CFR 1.29
- Applicant asserting small entity status. See 37 CFR 1.27
- Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature
 Typed or printed name Farzad E. Amini

Date August 22, 2014
 Registration No. 42,261

Electronic Patent Application Fee Transmittal

Application Number:	13358353
Filing Date:	25-Jan-2012
Title of Invention:	Tandem Access Controller Within The Public Switched Telephone Network
First Named Inventor/Applicant Name:	Samuel F. Wood
Filer:	Farzad Etemad Amini/Margaux Wolson
Attorney Docket Number:	002964.P081

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Utility Appl Issue Fee	1501	1	960	960

Extension-of-Time:

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				960

Electronic Acknowledgement Receipt

EFS ID:	19939905
Application Number:	13358353
International Application Number:	
Confirmation Number:	7896
Title of Invention:	Tandem Access Controller Within The Public Switched Telephone Network
First Named Inventor/Applicant Name:	Samuel F. Wood
Customer Number:	8791
Filer:	Farzad Etemad Amini/Margaux Wolson
Filer Authorized By:	Farzad Etemad Amini
Attorney Docket Number:	002964.P081
Receipt Date:	22-AUG-2014
Filing Date:	25-JAN-2012
Time Stamp:	13:53:18
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$960
RAM confirmation Number	136
Deposit Account	022666
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

000015

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	2964P081_PartBFeeTrans_05_27_14.pdf	65565 814158682032e63a2c5fea88ad5ec95b248ec12	no	1

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30453 0214d7c1cb1d6c142af629a4088552e3dd62f115	no	2
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Warnings:

Information:

Total Files Size (in bytes): 96018

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



NOTICE OF ALLOWANCE AND FEE(S) DUE

8791 7590 05/27/2014
BLAKELY SOKOLOFF TAYLOR & ZAFMAN
1279 Oakmead Parkway
Sunnyvale, CA 94085-4040

Table with 2 columns: EXAMINER (GAY, SONIA L), ART UNIT (2651), PAPER NUMBER (7896)

DATE MAILED: 05/27/2014

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.

TITLE OF INVENTION: Tandem Access Controller Within The Public Switched Telephone Network

Table with 7 columns: APPLN. TYPE, ENTITY STATUS, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies. If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above. If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)". For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 or Fax (571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

8791 7590 05/27/2014
BLAKELY SOKOLOFF TAYLOR & ZAFMAN
 1279 Oakmead Parkway
 Sunnyvale, CA 94085-4040

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/358,353	01/25/2012	Samuel F. Wood	002964.P081	7896

TITLE OF INVENTION: Tandem Access Controller Within The Public Switched Telephone Network

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0	\$0	\$480	08/27/2014

EXAMINER	ART UNIT	CLASS-SUBCLASS
GAY, SONIA L	2651	379-211010

<p>1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</p> <p><input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</p> <p><input type="checkbox"/> "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</p>	<p>2. For printing on the patent front page, list</p> <p>(1) The names of up to 3 registered patent attorneys or agents OR, alternatively, _____ 1</p> <p>(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. _____ 2</p> <p>_____ 3</p>
---	---

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE _____ (B) RESIDENCE: (CITY and STATE OR COUNTRY) _____

Please check the appropriate assignee category or categories (will not be printed on the patent) : Individual Corporation or other private group entity Government

<p>4a. The following fee(s) are submitted:</p> <p><input type="checkbox"/> Issue Fee</p> <p><input type="checkbox"/> Publication Fee (No small entity discount permitted)</p> <p><input type="checkbox"/> Advance Order - # of Copies _____</p>	<p>4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</p> <p><input type="checkbox"/> A check is enclosed.</p> <p><input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.</p> <p><input type="checkbox"/> The Director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).</p>
---	--

5. **Change in Entity Status** (from status indicated above)

Applicant certifying micro entity status. See 37 CFR 1.29

Applicant asserting small entity status. See 37 CFR 1.27

Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
13/358,353 01/25/2012 Samuel F. Wood 002964.P081 7896

8791 7590 05/27/2014
BLAKELY SOKOLOFF TAYLOR & ZAFMAN
1279 Oakmead Parkway
Sunnyvale, CA 94085-4040

EXAMINER

GAY, SONIA L

ART UNIT PAPER NUMBER

2651

DATE MAILED: 05/27/2014

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 13/358,353	Applicant(s) WOOD ET AL.	
	Examiner SONIA GAY	Art Unit 2651	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to Amendment filed on 05/07/2014.
 A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
2. An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. The allowed claim(s) is/are 1-22. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/oph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) All b) Some *c) None of the:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Examiner's Amendment/Comment |
| 2. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 6. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 7. <input type="checkbox"/> Other _____. |
| 4. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. | |

/SONIA GAY/
Primary Examiner, Art Unit 2651

Art Unit: 2651

Reasons for Allowance

1. Claims 1- 22 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art fails to teach or suggest in reasonable combination the following: A method of using control criteria to route a communication between a user with access to a voice over IP (VOIP) communication network, and a called party with access to the public switched telephone network (PSTN) comprising: receiving at a controller a signaling message indicating a communication from the user via the VOIP network; using information in the signaling message to retrieve control criteria from a database, where the control criteria has been authenticated and derived from selections previously made by said user via a web server; and using data associated with the communication combined with the control criteria to route the communication from the controller to the called party via a PSTN tandem switch that is separate from a central office switch without traversing any intervening switches between the controller and the PSTN tandem switch.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2651


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SONIA GAY whose telephone number is (571) 270-1951. The examiner can normally be reached on Monday to Thursday from 7:30 AM to 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duc Nguyen can be reached on (571) 272-7503. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/SONIA GAY/
Primary Examiner, Art Unit 2651
May 23, 2014

Search Notes 	Application/Control No. 13358353	Applicant(s)/Patent Under Reexamination WOOD ET AL.
	Examiner SONIA GAY	Art Unit 2651

CPC- SEARCHED		
Symbol	Date	Examiner


CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
379	211.01	12/17/2012	S.Gay
	Updated above searche	6/24/2013	S.Gay
370	401,352	6/24/2013	S.Gay
	Updated above search	10/1/2013	S.Gay
	Updated above search	3/6/2014	S.Gay
	Updated above search	5/23/2014	S.Gay

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor Search	12/17/2012	S.Gay
Text Search	12/17/2012	S.Gay
Updated search	6/24/2013	S.Gay
Updated search	10/1/2013	S.Gay
Updated search	3/6/2014	S.Gay
Updated search	5/30/2014	S.Gay

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
379	211.01	5/23/2014	S.Gay
370	352	5/23/2014	S.Gay


	/SONIA GAY/ Primary Examiner.Art Unit 2651
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Issue Classification 	Application/Control No. 13358353	Applicant(s)/Patent Under Reexamination WOOD ET AL.
	Examiner SONIA GAY	Art Unit 2651

CPC						
Symbol					Type	Version
H04Q		2213		13034	A	2013-01-01
H04Q		2213		13109	A	2013-01-01
H04Q		3		005	I	2013-01-01
H04Q		2213		13091	A	2013-01-01
H04Q		2213		13332	A	2013-01-01
H04Q		2213		1313	A	2013-01-01
H04M		7		12	A	2013-01-01
H04Q		2213		13242	A	2013-01-01
H04M		3		42161	I	2013-01-01
H04Q		3		72	I	2013-01-01
H04M		3		42153	I	2013-01-01
H04M		7		0009	I	2013-01-01
H04Q		2213		13097	A	2013-01-01
H04Q		2213		13389	A	2013-01-01
H04Q		3		0025	I	2013-01-01
H04Q		3		66	I	2013-01-01
H04L		65		1046	F	2013-01-01
H04Q		2213		13141	A	2013-01-01
H04M		3		42229	A	2013-01-01
H04Q		2213		13103	A	2013-01-01

CPC Combination Sets							
Symbol				Type	Set	Ranking	Version

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	22	
/SONIA GAY/ Primary Examiner.Art Unit 2651	05/23/2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Issue Classification 	Application/Control No. 13358353	Applicant(s)/Patent Under Reexamination WOOD ET AL.
	Examiner SONIA GAY	Art Unit 2651

<input checked="" type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input type="checkbox"/> T.D. <input type="checkbox"/> R.1.47															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		17												
	2		18												
	3		19												
	4		20												
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	14														
	15														
	16														

NONE		Total Claims Allowed:	
		22	
(Assistant Examiner)	(Date)	O.G. Print Claim(s)	O.G. Print Figure
/SONIA GAY/ Primary Examiner.Art Unit 2651	05/23/2014	1	1
(Primary Examiner)	(Date)		

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application for:

Samuel F. Wood, et al.

Serial No.: 13/358,353

Filed: January 25, 2012

For: TANDEM ACCESS CONTROLLER WITHIN
THE PUBLIC SWITCHED TELEPHONE
NETWORK

Examiner: Sonia L. Gay

Art Group: 2651

Confirmation No.: 7896

AMENDMENT AND RESPONSE TO OFFICE ACTION

Mail Stop AF
Commissioner for Patents
Post Office Box 1450
Alexandria, Virginia 22313-1450

In response to an Office Action dated March 12, 2014, in connection with the above referenced patent application, Applicants respectfully request reconsideration in view of the following amendments and remarks.

Amendments to the Claims begin on page 2 of this paper.

Remarks begin on page 5 of this paper.

EAST Search History**EAST Search History (Prior Art)**


Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	131	tandem adj switch same controller	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2014/05/23 17:11
L2	116	tandem adj switch same controller and (not(telemaze))	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2014/05/23 17:12
L3	21	pstn adj tandem adj switch same controller	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2014/05/23 17:14
L4	100	tandem adj switch same controller and (pstn public adj switched adj telephone adj network)	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2014/05/23 17:16
L5	75	tandem adj switch same controller and (pstn public adj switched adj telephone adj network) and (voip voice adj over adj ip voice adj over adj internet adj protocol)	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2014/05/23 17:21

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L6	7	(tandem adj switch same controller and (pstn public adj switched adj telephone adj network) and (voip voice adj over adj ip voice adj over adj internet adj protocol)).clm.	US- PGPUB; USPAT; UPAD	OR	ON	2014/05/23 17:34

5/ 23/ 2014 6:23:18 PM

C:\Users\sgay\Documents\EAST\Workspaces\13358353_4.wsp

Index of Claims 	Application/Control No. 13358353	Applicant(s)/Patent Under Reexamination WOOD ET AL.
	Examiner SONIA GAY	Art Unit 2651

✓	Rejected
=	Allowed

-	Cancelled
÷	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

Claims renumbered in the same order as presented by applicant
 CPA
 T.D.
 R.1.47

CLAIM		DATE								
Final	Original	12/17/2012	06/24/2013	10/01/2013	03/06/2014	05/23/2014				
	1	✓	✓	✓	✓	=				
	2	✓	✓	✓	✓	=				
	3	✓	✓	✓	✓	=				
	4	✓	✓	✓	✓	=				
	5	✓	✓	✓	✓	=				
	6	✓	✓	✓	✓	=				
	7	✓	✓	✓	✓	=				
	8	✓	✓	✓	✓	=				
	9	✓	✓	✓	✓	=				
	10	✓	✓	✓	✓	=				
	11	✓	✓	✓	✓	=				
	12	✓	✓	✓	✓	=				
	13	✓	✓	✓	✓	=				
	14	✓	✓	✓	✓	=				
	15	✓	✓	✓	✓	=				
	16	✓	✓	✓	✓	=				
	17	✓	✓	✓	✓	=				
	18	✓	✓	✓	✓	=				
	19	✓	✓	✓	✓	=				
	20	✓	✓	✓	✓	=				
	21	✓	✓	✓	✓	=				
	22		✓	✓	✓	=				

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application for:

Samuel F. Wood, et al.

Serial No.: 13/358,353

Filed: January 25, 2012

For: TANDEM ACCESS CONTROLLER WITHIN
THE PUBLIC SWITCHED TELEPHONE
NETWORK

Examiner: Sonia L. Gay

Art Group: 2651

Confirmation No.: 7896

AMENDMENT AND RESPONSE TO OFFICE ACTION

Mail Stop AF
Commissioner for Patents
Post Office Box 1450
Alexandria, Virginia 22313-1450

In response to an Office Action dated March 12, 2014, in connection with the above referenced patent application, Applicants respectfully request reconsideration in view of the following amendments and remarks.

Amendments to the Claims begin on page 2 of this paper.

Remarks begin on page 5 of this paper.

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method of using control criteria to route a communication between a user with access to a voice over IP (VOIP) communication network, and a called party with access to the public switched telephone network (PSTN) comprising:
 - receiving at a controller a signaling message indicating a communication from the user via the VOIP network;
 - using information in the signaling message to retrieve control criteria from a database, where the control criteria has been authenticated and derived from selections previously made by said user via a web server; and
 - using ~~data associated with the communication combined with~~ the control criteria to route the communication from the controller to the called party via a PSTN tandem switch that is separate from a central office switch without traversing any intervening switches between the controller and the PSTN tandem switch.
2. (Original) The method of claim 1 where the communication comprises a call.
3. (Original) The method of claim 1 where the communication comprises a short message.
4. (Previously Presented) The method of claim 1 where the signaling message indicating a communication is for a first call, and the routing of the communication constitutes a second call from the controller.
5. (Previously Presented) The method of claim 4 where the control criteria includes a phone number of the user.
6. (Previously Presented) The method of claim 4 where the selections made by the user via a web server include a selection of a phone number.
7. (Previously Presented) The method of claim 4 where the selections made by the user via a web server include an entering of a credit card number.

8. (Previously Presented) The method of claim 4 where the selections made by the user via a web server include an entering of personal information.
9. (Previously Presented) The method of claim 4 where the selections made by the user via a web server include a selection of features.
10. (Previously Presented) The method of claim 9 where the selection of features includes a selection of selective call forwarding.
11. (Previously Presented) The method of claim 9 where the selection of features includes a selection of caller ID blocking.
12. (Previously Presented) The method of claim 4 where the control criteria include security measures.
13. (Previously Presented) The method of claim 12 where the security measures include the prevention of denial of service attacks.
14. (Previously Presented) The method of claim 12 where the security measures include no direct access to a gateway.
15. (Previously Presented) The method of claim 12 where the security measures include an additional security layer to prevent hacking.
16. (Original) The method of claim 12, wherein the security measures include VOIP link degradation detection.
17. (Original) The method of claim 12, wherein the security measures include automatic cutover to the PSTN.
18. (Original) The method of claim 12, wherein the security measures include conditional call blocking.
19. (Original) The method of claim 12, wherein the security measures include call logging.

20. (Previously Presented) The method of claim 12, wherein the security measures include authentication of a calling party.
21. (Previously Presented) The method of claim 1 where the controller is of a distributed nature supporting multiple subsystems.
22. (Previously Presented) The method of claim 21, where one of the multiple subsystems is a digital signal processing (DSP) subsystem.

REMARKS

In this response, Applicants respectfully submit the above amendments and request reconsideration in view of the remarks below. Claim 1 has been amended. No claims have been added or canceled. Accordingly, claims 1-22 are currently pending in the subject application. Favorable reconsideration of the pending claims is respectfully requested in view of the following remarks.

I. Rejection Under 35 U.S.C. § 103

Claims 1, 2, 4-6, 8-10, 12, and 18-21 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 6,747,970 issued to Lamb, et al. ("Lamb") in view of U.S. Patent No. 8,380,783 issued to Jones ("Jones"), and further in view of U.S. Patent No. 5,598,464 issued to Hess, et al. ("Hess").

To establish a *prima facie* case of obviousness the Examiner must show that the cited references can be combined to render each of the elements of the claims obvious. However, the cited references cannot be combined to render claim 1 as obvious, because the combination fails to disclose each element of the claim.

Claim 1, as amended, includes the element of "route the communication from the controller to the called party via a PSTN tandem switch that is separate from a central office switch without traversing any intervening switches between the controller and the PSTN tandem switch." Claim 1 has been amended to clarify that a PSTN tandem switch is separate from a central office switch. This amendment is supported at least by Fig. 2 and Paragraphs [0005]-[0008] and [0037] of the subject application. The cited references do not teach or suggest this element of claim 1. The Examiner acknowledges that Lamb fails to teach this element of claim 1. (See Office Action, Page 3). However, the Examiner alleges that the combination of Lamb and Hess teaches "routing

communication from the controller to the called party via a PSTN tandem switch without traversing any intervening switches between the controller and the PSTN tandems switch.” (See Office Action, Pages 3 and 4). In particular, as best as can be discerned by Applicants, the Examiner suggests that the service node disclosed in Hess is a PSTN tandem switch that can replace the telecom network server disclosed in Lamb so as to put the telecom hosting server of Lamb (which the Examiner interprets as Applicants’ controller) in direct communication with the service node (which the Examiner interprets as a PSTN tandem switch) without any intervening switches. (See Office Action, Pages 3 and 4). The Applicants respectfully disagree. A PSTN tandem switch, as understood by one of ordinary skill in the art, is a switch that interconnects edge switches. To better clarify this point, claim 1 has been amended to recite that a PSTN tandem switch is separate from a central office switch. In contrast, the Examiner’s suggestion to replace the telecom network server of Lamb with the service node of Hess places the service node at the edge of the PSTN (e.g., at a central office). (See Lamb, Fig. 3 and Column 30, Lines 45-56). As a result, the service node is not a PSTN tandem switch that is *separate from a central office switch*, as recited in claim 1. Jones has not been shown to cure the above-mentioned defects of Lamb and Hess. Thus, the cited references do not teach or suggest “route the communication from the controller to the called party via a PSTN tandem switch that is separate from a central office switch without traversing any intervening switches between the controller and the PSTN tandem switch.”

Therefore, the Applicants respectfully submit that claim 1 is not obvious over the cited references. Accordingly, reconsideration and withdrawal of the obviousness rejection of claim 1 are requested.

Any dependent claims not mentioned above are submitted as not being anticipated or obvious, for at least the same reasons given above in support of their base claims.

It should be noted that not all of the assertions made in the Office Action, particularly those with respect to the dependent claims, have been addressed here, in the interest of conciseness. The Applicants reserve the right to challenge any of the assertions made in the Office Action by the Examiner, with respect to the relied upon art references and how they would relate to Applicants' claim language, including the right to swear behind or otherwise remove an improper art reference and the right to challenge an assertion of admitted prior art or official notice taken about prior art, with respect to any of the dependent claims.

CONCLUSION

In view of the foregoing, it is believed that all claims now pending patentably define the subject invention over the prior art of record and are in condition for allowance and such action is earnestly solicited at the earliest possible date.

If necessary, the Commissioner is hereby authorized in this, concurrent and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2666 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17, particularly extension of time fees.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR, & ZAFMAN LLP

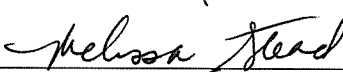
Dated: 5-7-2014

By 
Farzad E. Amini, Reg. No. 42,261

1279 Oakmead Parkway
Sunnyvale, California 94085-4040
(310) 207-3800

CERTIFICATE OF ELECTRONIC FILING

I hereby certify that this paper is being transmitted online via EFS Web to the Patent and Trademark Office, Commissioner for Patents, Post Office Box 1450, Alexandria, Virginia 22313-1450, on 5-7, 2014.



Melissa Stead 5-7, 2014

**CERTIFICATION AND REQUEST FOR CONSIDERATION UNDER THE
 AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0**

Practitioner Docket Number 2964P081	Application No.: 13/358,353	Filing Date: January 25, 2012
First Named Inventor Samuel F. Wood	Title TANDEM ACCESS CONTROLLER WITHIN THE PUBLIC SWITCHED TELEPHONE NETWORK	

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS CONSIDERATION UNDER THE AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0 (AFCP 2.0) OF THE ACCOMPANYING RESPONSE UNDER 37 CFR 1.116.

1. The above-identified application is (i) an original utility, plant, or design nonprovisional application filed under 35 U.S.C. 111(a) [a continuing application (*e.g.*, a continuation or divisional application) is filed under 35 U.S.C. 111(a) and is eligible under (i)], or (ii) an international application that has entered the national stage in compliance with 35 U.S.C. 371(c).
2. The above-identified application contains an outstanding final rejection.
3. Submitted herewith is a response under 37 CFR 1.116 to the outstanding final rejection. The response includes an amendment to at least one independent claim, and the amendment does not broaden the scope of the independent claim in any aspect.
4. This certification and request for consideration under AFCP 2.0 is the only AFCP 2.0 certification and request filed in response to the outstanding final rejection.
5. Applicant is willing and available to participate in any interview requested by the examiner concerning the present response.
6. This certification and request is being filed electronically using the Office's electronic filing system (EFS-Web).
7. Any fees that would be necessary consistent with current practice concerning responses after final rejection under 37 CFR 1.116, *e.g.*, extension of time fees, are being concurrently filed herewith. [There is no additional fee required to request consideration under AFCP 2.0.]
8. By filing this certification and request, applicant acknowledges the following:
 - Reissue applications and reexamination proceedings are not eligible to participate in AFCP 2.0.
 - The examiner will verify that the AFCP 2.0 submission is compliant, *i.e.*, that the requirements of the program have been met (see items 1 to 7 above). For compliant submissions:
 - o The examiner will review the response under 37 CFR 1.116 to determine if additional search and/or consideration (i) is necessitated by the amendment and (ii) could be completed within the time allotted under AFCP 2.0. If additional search and/or consideration is required but cannot be completed within the allotted time, the examiner will process the submission consistent with current practice concerning responses after final rejection under 37 CFR 1.116, *e.g.*, by mailing an advisory action.
 - o If the examiner determines that the amendment does not necessitate additional search and/or consideration, or if the examiner determines that additional search and/or consideration is required and could be completed within the allotted time, then the examiner will consider whether the amendment places the application in condition for allowance (after completing the additional search and/or consideration, if required). If the examiner determines that the amendment does not place the application in condition for allowance, then the examiner will contact the applicant and request an interview.
 - The interview will be conducted by the examiner, and if the examiner does not have negotiation authority, a primary examiner and/or supervisory patent examiner will also participate.
 - If the applicant declines the interview, or if the interview cannot be scheduled within ten (10) calendar days from the date that the examiner first contacts the applicant, then the examiner will proceed consistent with current practice concerning responses after final rejection under 37 CFR 1.116.

Signature 	Date 5.7.2014
Name (Printed/Typed) Farzad E. Amini	Practitioner Registration No. 42261

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below.*

*Total of forms are submitted.

Electronic Acknowledgement Receipt

EFS ID:	18969758
Application Number:	13358353
International Application Number:	
Confirmation Number:	7896
Title of Invention:	Tandem Access Controller Within The Public Switched Telephone Network
First Named Inventor/Applicant Name:	Samuel F. Wood
Customer Number:	8791
Filer:	Farzad Etemad Amini/Melissa Stead
Filer Authorized By:	Farzad Etemad Amini
Attorney Docket Number:	002964.P081
Receipt Date:	07-MAY-2014
Filing Date:	25-JAN-2012
Time Stamp:	16:07:04
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		P081_RFOA.pdf	86424 87fef977b8b06964b0fadfce905fc92c797e3b12	yes	8

Multipart Description/PDF files in .zip description			
Document Description	Start	End	
Response After Final Action	1	1	
Claims	2	4	
Applicant Arguments/Remarks Made in an Amendment	5	8	

Warnings:

Information:

2	After Final Consideration Program Request	P081_AFCP.pdf	31872	no	1
			0a4d832f2216b3b0bc35897b9056b33d2baf7427		

Warnings:

Information:

Total Files Size (in bytes):			118296		
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/358,353	Filing Date 01/25/2012	<input type="checkbox"/> To be Mailed
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ENTITY: LARGE SMALL MICRO

APPLICATION AS FILED – PART I

FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)
<input type="checkbox"/> BASIC FEE <small>(37 CFR 1.16(a), (b), or (c))</small>	N/A	N/A	N/A	
<input type="checkbox"/> SEARCH FEE <small>(37 CFR 1.16(k), (l), or (m))</small>	N/A	N/A	N/A	
<input type="checkbox"/> EXAMINATION FEE <small>(37 CFR 1.16(o), (p), or (q))</small>	N/A	N/A	N/A	
TOTAL CLAIMS <small>(37 CFR 1.16(i))</small>	minus 20 =	*	X \$ =	
INDEPENDENT CLAIMS <small>(37 CFR 1.16(h))</small>	minus 3 =	*	X \$ =	
<input type="checkbox"/> APPLICATION SIZE FEE <small>(37 CFR 1.16(s))</small>	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT <small>(37 CFR 1.16(j))</small>				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

	(Column 1)	(Column 2)	(Column 3)	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	
AMENDMENT	05/07/2014	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR				
	Total <small>(37 CFR 1.16(i))</small>	* 22	Minus	** 22	= 0	X \$40 = 0	
	Independent <small>(37 CFR 1.16(h))</small>	* 1	Minus	***3	= 0	X \$210 = 0	
	<input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>						
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>						
					TOTAL ADD'L FEE	0	

	(Column 1)	(Column 2)	(Column 3)	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR				
	Total <small>(37 CFR 1.16(i))</small>	*	Minus	**	=	X \$ =	
	Independent <small>(37 CFR 1.16(h))</small>	*	Minus	***	=	X \$ =	
	<input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>						
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>						
					TOTAL ADD'L FEE		

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
 ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
 *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
 The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/DEBRA SAVOY/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/358,353	01/25/2012	Samuel F. Wood	357323-990127

CONFIRMATION NO. 7896

POWER OF ATTORNEY NOTICE



26379
DLA PIPER LLP (US)
2000 UNIVERSITY AVENUE
EAST PALO ALTO, CA 94303-2248

Date Mailed: 04/02/2014

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 03/28/2014.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

/mbeyene/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/358,353	01/25/2012	Samuel F. Wood	002964.P081

CONFIRMATION NO. 7896

POA ACCEPTANCE LETTER

8791
BLAKELY SOKOLOFF TAYLOR & ZAFMAN
1279 Oakmead Parkway
Sunnyvale, CA 94085-4040



Date Mailed: 04/02/2014

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 03/28/2014.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/mbeyenc/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

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POWER OF ATTORNEY OR REVOCATION OF POWER OF ATTORNEY WITH A NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS	Application Number	13/358,353
	Filing Date	January 25, 2012
	First Named Inventor	Samuel F. Wood
	Title	Tandem Access Controller, etc.
	Art Unit	2651
	Examiner Name	Gay, Sonia L.
	Attorney Docket Number	002964.P081

I hereby revoke all previous powers of attorney given in the above-identified application.

A Power of Attorney is submitted herewith.

OR

I hereby appoint Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

08791

OR

I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

Practitioner(s) Name	Registration Number

Please recognize or change the correspondence address for the above-identified application to:

The address associated with the above-mentioned Customer Number.

OR

The address associated with Customer Number:

08791

OR

Firm or Individual Name

Address

City _____ State _____ Zip _____

Country _____

Telephone _____ Email _____

I am the:

Applicant/Inventor.

OR

Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) (Form PTO/SB/96) submitted herewith or filed on _____

SIGNATURE of Applicant or Assignee of Record

Signature		Date	March 24, 2014
Name	Zohar Loshitzer	Telephone	(323) 860-9200
Title and Company	Manager, Focal IP, LLC		

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

*Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Focal IP, LLC
Application No./Patent No.: 13/358,353 Filed/Issue Date: January 25, 2012
Titled: Tandem Access Controller Within the Public Switched Telephone Network
Focal IP, LLC a Delaware Corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose one of options 1, 2, 3 or 4 below):

1. The assignee of the entire right, title, and interest.
2. An assignee of less than the entire right, title, and interest (check applicable box):
- The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
 - There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose one of options A or B below):

- A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
- B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Samuel F. Wood, Margaret Susan Asprey, Jerry A. Klein To: Telemaze, Inc.

The document was recorded in the United States Patent and Trademark Office at Reel 011463, Frame 0182, or for which a copy thereof is attached.

2. From: Telemaze, Inc. To: Telemaze LLC

The document was recorded in the United States Patent and Trademark Office at Reel 016844, Frame 0708, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

STATEMENT UNDER 37 CFR 3.73(c)

3. From: Telemaze, LLC To: Focal IP, Inc.

The document was recorded in the United States Patent and Trademark Office at Reel 032350, Frame 0573, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

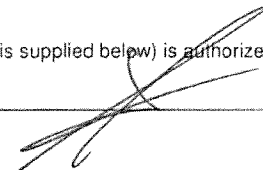
Additional documents in the chain of title are listed on a supplemental sheet(s).

As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Signature
Zohar Loshitzer
Printed or Typed Name



March 24 2014
Date
Manager, Focal IP, LLC
Title or Registration Number

Electronic Acknowledgement Receipt

EFS ID:	18618423
Application Number:	13358353
International Application Number:	
Confirmation Number:	7896
Title of Invention:	Tandem Access Controller Within The Public Switched Telephone Network
First Named Inventor/Applicant Name:	Samuel F. Wood
Customer Number:	26379
Filer:	Farzad Etemad Amini/Margaux Wolson
Filer Authorized By:	Farzad Etemad Amini
Attorney Docket Number:	357323-990127
Receipt Date:	28-MAR-2014
Filing Date:	25-JAN-2012
Time Stamp:	18:24:32
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	2964P081_POA_ChangeAdd_03_28_14.pdf	91515 a9214e8007e903a8b36d7c370150f214cfb240ec	no	1

Warnings:

Information:

000048

2	Assignee showing of ownership per 37 CFR 3.73.	2964P081_State37CFR373c_03_28_14.pdf	120613 b90d7ca7a1450e85c0320fd4628ae40eedd b56e1	no	2
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Warnings:

Information:

Total Files Size (in bytes):	212128
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO. Includes application details for 13/358,353 and 26379, inventor Samuel F. Wood, attorney DLA PIPER LLP, examiner GAY, SONIA L, art unit 2651, and notification date 03/12/2014.

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PatentDocketingUS-PaloAlto@dlapiper.com

Office Action Summary	Application No. 13/358,353	Applicant(s) WOOD ET AL.	
	Examiner SONIA GAY	Art Unit 2651	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 1-22.
 A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
- 4) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

- 5) Claim(s) 1-22 is/are pending in the application.
5a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 6) Claim(s) _____ is/are allowed.
- 7) Claim(s) 1-22 is/are rejected.
- 8) Claim(s) _____ is/are objected to.
- 9) Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

- 10) The specification is objected to by the Examiner.
- 11) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) All b) Some** c) None of the:
 - 1. Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____.
 - 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date _____.
- 3) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 4) Other: _____.

DETAILED ACTION

1. This action is in response to Amendment filed on 11/20/2013.

Response to Amendment

2. Applicant's amendment filed on November 20, 2013 has been entered. No claims have been amended. No claims have been canceled. No claims have been added. Claims 1 - 22 are still pending in this application, with claim 1 being independent.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 2, 4-6, 8 – 10, 12, and 18 - 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb et al. (US 6,747,970) (“Lamb”) in view of Jones (US 8,380,783), and further in view of Hess (US 5,598,464).

For claim 1, Lamb discloses a method of using control criteria to route a communication between a user with access to a VoIP network and a called party with access to the public switched telephone network (PSTN) (Abstract; column 4 lines 5 – column 5 line 3; column 46 lines 50 - 55; column 48 lines 2 - 9; column 48 lines 27 – 30, 38 - column 49 line 8) comprising: receiving at a control device (*telephone hosting server*, Fig.3, 203) a message indicating a communication from the user (call application message as message indicating a communication,

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column 12 lines 20 - 30; column 28 lines 33 - 39; column 43 lines 23 - 28) via the VoIP network (column 46 lines 50 - 55; column 47 lines 27 - 30, 38 - 41); using information in the message to retrieve control criteria (Table 1- Invite Processing Rules and Phone information, columns 38 and 39; column 47 lines 41 - 51; column 50 lines 15 -28, 52 - column 51 line 14) from a database (Fig.3, 220) (column 27 lines 30 - 33; column 29 lines 40 - 43), where control criteria has been authenticated (column 29 lines 61 - column 30 line 5) and derived from selections previously made by user (column 35 lines 5 - 14), via a web server (*telecommunications hosting server*, Fig.3, 203); and using data associated with the communication combined with the control criteria to route the communication from the controller to the called party via a PSTN service node (column 48 lines 38 - 55). Yet, Lamb fails to explicitly teach that the message is a signaling message; the PSTN service node is a tandem switch, wherein the call is routed without traversing any intervening switches between the controller and the tandem switch.

However, Lamb further discloses using HTTP to provide messaging of call requests (column 29 lines 40 - 52; column 12 lines 16 - 38); and routing calls to the PSTN via service node coupled to a public phone switch (STP), without traversing any other intervening switches (column 27 lines 5 - 26; column 28 lines 9 -14).

Additionally, Jones discloses a method for the purpose of processing web calls (Abstract), wherein a call request message, i.e. a Get document in HTTP, from a communication device with web browser (column 3 lines 3 - 10) is signaling used to begin a call.

Moreover, Hess discloses a method and apparatus for the purpose routing calls in the

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PSTN (Abstract), wherein a service node, which is coupled to a first switch (or STP) comprises a tandem switch coupled to a SCP (column 2 lines 52 – 63).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the teachings of Lamb with the teachings of Jones and Hess so that the message disclosed in Lamb is a signaling message comprising an indication of a communication, i.e. call request, to initiate and route a call to the PSTN tandem switch without traversing any other intermediate switches between the controller and the PSTN tandem switch, a tandem switch and SCP, for the purpose of providing advance telecommunications services to a user located in connectionless network (Lamb, column 1 lines 10 - 16), i.e. routing calls from the user to endpoints in the PSTN, wherein these services had previously been accessible via the PSTN.

For claim 2, Lamb further discloses where the communication comprises a call (Lamb, column 26 lines 24 - 31).

For claim 4, Lamb further discloses where the signaling messaging indicating a communications is for a first call (Lamb, column 48 lines 59 – column 49 line 5) and the routing of the communication constitutes a second call from the controller (Lamb, column 48 lines 39 - 47).

For claim 5, Lamb further discloses wherein the control criteria include a phone number of the user (Lamb, *Table 1- Phone Interface*, column 49 lines 53 – column 50 line 14; column 61 lines 11 - 33).

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For claim 6, Lamb further discloses wherein the selections made via a web server include selection of a phone number (Lamb, *Table1- Phone Information*, column 35 lines 1 - 18; column 39 and 40; column 59 lines 3 - 6, 14 - 16; column 50 lines 52 - 55; column 51 lines 11 - 40; column 61 lines 11 - 33).

For claim 8, Lamb further discloses where the selections made by the user via a web server include the entering of personal information (Lamb, *Table1-Bibliographic Information*, column 37 and 38; column 35 lines 1 - 18).

For claim 9, Lamb further discloses where the selections made by the user via a web server include the selections of features (Lamb, *Table1-Invite processing rules*, column 37 and 38).

For claim 10, Lamb further discloses where a feature includes selective call forwarding (Lamb, column 50 lines 25 - 51).

For claim 12, Lamb further discloses where the control criteria include security measures (Lamb, *Table 1- Call logging and Availability Exposure Rules*, columns 37, 38, 39, 40; column 58 lines 46 - 51; column 62 lines 38 - 47).

For claim 18, Lamb further discloses wherein the security measures include conditional call blocking (Lamb, column 51 lines 11 - 41).

For claim 19, Lamb further discloses wherein the security measures include call logging (Lamb, column 58 lines 46 - 51; column 62 lines 38 - 47).

For claim 20, Lamb further discloses wherein the security measures include authentication of a calling party (Lamb, column 29 lines 61 - column 30 line 5)

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For claim 21, Lamb further discloses wherein the controller is of a distributed nature supporting multiple subsystems (Lamb, multiple user agents supporting multiple user clients as distributed, column 27 lines 26 – 40; column 29 lines 27 – 52).

2. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb et al. (US 6,747,970) (“Lamb”) in view of Jones (US 8,380,783), and further in view of Hess (US 5,598,464), and further in view of Bannister et al. (US 5,943,399) (“Bannister”).

For claim 3, the combination of Lamb, Jones, and Hess fails to teach where the communication comprises a short message.

However, Bannister discloses a method for the purpose of providing a communication to a telecommunications terminal coupled to the PSTN (Fig.1, 650; column 4 lines 61 – column 5 line 10) from a data terminal coupled to the Internet (Fig.1, 400; column 3 lines 66 – column 4 line 6), wherein a voice call (column 7 lines 15 – 57) or a short message (column 7 lines 64 – column 8 line 41) are sent from the data terminal to the telecommunications terminal (column 9 lines 24 - 30).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant’s invention to improve and update the communication providing system disclosed in the combination of Lamb, Jones, and Hess to provide the predictable results of performing both voice call and short message call delivery from the Internet coupled user terminal disclosed by the combination of Lamb, Jones, and Hess for the purpose of satisfying consumers desires to place short message communications to wireless devices from their wired based communications (Bannister, column 1 lines 18 – 49), such as data terminals connected to the Internet via a LAN.

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3. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb et al. (US 6,747,970) (“Lamb”) in view of Jones (US 8,380,783), and further in view of Hess (US 5,598,464), and further in view of Chang (US 5,958,016).

For claim 7, the combination of Lamb, Jones, and Hess fails to teach where the selections made by the user via the web server include an entering of a credit card number.

However, Chang discloses a method for the purpose of providing web page access to control services provided in a communications network (Abstract), wherein a subscriber selects services and/or modifies preexisting services using selections via a web interface (column 4 lines 45 - 48; column 20 lines 47 - column 21 lines 10; column 23 lines 55 - 64) including entering a credit card number (column 24 lines 17 – 19).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the combination of Lamb, Jones, and Hess with the teachings of Chang so that a credit card number is entered by a user for the purpose of facilitating more efficient bill payments for the communication services provided to the user in the combination of Lamb, Jones, and Hess, wherein credit cards can involve less processing time and greater assurance to the provider that payment will be received from the user.

4. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb et al. (US 6,747,970) (“Lamb”) in view of Jones (US 8,380,783), and further in view of Hess (US 5,598,464), and further in view of Relyea et al. (US 6,185,285) (“Relyea”).

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For claim 11, the combination of Lamb, Jones, and Hess fails to teach where a feature includes caller ID blocking.

However, Relyea discloses a method for the purpose of the providing a user with information about and control over the communications service feature at a user terminal (Abstract), wherein a feature that can be selected by a user via a home page displayed on the user terminal includes caller ID blocking (Fig.3, 368; column 5 lines 17 - 22, 26 - 31, 42 - 56).

Therefore, it would have been obvious to modify the combination of Lamb, Jones, and Hess with the teachings of Relyea so that the features selected by the user disclosed above in the combination of Lamb, Jones, and Hess further comprise caller ID blocking for the purpose of providing an enhanced array of communications services to the user to increase user satisfaction with the communication network (Relyea, column 1 lines 16 - 20).

5. Claims 13 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb et al. (US 6,747,970) (“Lamb”) in view of Jones (US 8,380,783), and further in view of Hess (US 5,598,464), and further in view of Maher, III et al. (US 7,272,115) (“Maher”).

For claim 13, the combination of Lamb, Jones, and Hess fails to teach where security measures include the prevention of denial of service attacks.

However, Maher discloses a method for the purpose of enforcing service level agreements in VoIP networks (Abstract; column 1 lines 23 - 40), wherein security measures provided by a network device in a VoIP network include the prevention of denial of service attacks (column 4 lines 63 - column 5 line 17; column 6 lines 53 - 63).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the combination of Lamb, Jones, and Hess with the teachings of Maher so that the call control criteria include security measures that are further associated with subscribed services in the VoIP network as disclosed above in the combination of Lamb, Jones, and Hess, wherein these VoIP related security measures comprise the prevention of denial of service attacks for the purpose of enforcing the VoIP service level agreements negotiated between the provider and the subscriber as disclosed above in the combination of Lamb, Jones, and Hess to ensure that the VoIP services are available, reliable, and responsive (Maher, column 1 lines 27 - 34).

For claim 15, the combination of Lamb, Jones, and Hess fails to teach where security measures include an additional security layer to prevent hacking.

However, Maher discloses a method for the purpose of enforcing service level agreements in VoIP networks (Abstract; column 1 lines 23 – 40), wherein security measures provided by a network device in a VoIP network include the prevention of hacking (column 4 lines 63 - column 5 line 17; column 6 lines 53 - 63).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the combination of Lamb, Jones, and Hess with the teachings of Maher so that the call control criteria include security measures that are further associated with subscribed services in the VoIP network as disclosed above in the combination Lamb, Jones, and Hess, wherein these VoIP related security measures comprise an additional layer of security to prevent hacking for the purpose of enforcing the VoIP service level agreements negotiated

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between the provider and the subscriber as disclosed above in the combination of Lamb, Jones, and Hess to ensure that the VoIP services are available, reliable, and responsive (Maher, column 1 lines 27 - 34).

6. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb et al. (US 6,747,970) (“Lamb”) in view of Jones (US 8,380,783), and further in view of Hess (US 5,598,464), and further in view of Yasrebi (US 5,596,579).

For claim 14, the combination of Lamb, Jones, and Hess fails to teach where the security measures include no direct access to the gateway.

However, Yasrebi discloses a method for the purpose of linking client workstations on a LAN to a switched network using an interface mechanism (Abstract), wherein the interface mechanism isolates the workstations from direct access to the gateway ports (column 3 lines 24 - 36, 46 - 58).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the combination of Lamb, Jones, and Hess with the teachings of Yasrebi so that the call control criteria include security measures that are further associated with subscribed services in the VoIP network as disclosed above in the combination of Lamb, Jones, and Hess, wherein these VoIP related security measures comprise no direct access to the gateway by using an interface mechanism to isolate the user terminal disclosed above in the combination of Lamb, Jones, and Hess for the purpose of regulating network attachments in the gateway to impose frequency limit requirements for call activities (Yasrebi, column 3 lines 51 – 55).

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7. Claims 16 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb et al. (US 6,747,970) (“Lamb”) in view of Jones (US 8,380,783), and further in view of Hess (US 5,598,464), and further in view of McNiff et al. (US 6,785,229) (“McNiff”).

For claim 16, the combination of Lamb, Jones, and Hess fails to teach wherein the security measures include VoIP link degradation detection.

However, McNiff discloses a hybrid switch coupled to a packet network and a TDM network for the purpose of establishing a communication session using one of these networks switching the communication session to the other one of these networks in response to stored metrics, user request, or other criteria, wherein the hybrid switch automatically detects VoIP link degradation (column 5 lines 20 – 55).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant’s invention to modify the combination of Lamb, Jones, and Hess with the teachings of McNiff so that the call control criteria include security measures that are further associated with subscribed services in the VoIP network as disclosed above in the combination of Lamb, Jones, and Hess, wherein these VoIP related security measures comprise VoIP link degradation detection for the purpose of enforcing the VoIP service level agreements negotiated between the provider and the subscriber as disclosed above in the combination of Lamb, Jones, and Hess to ensure that the VoIP services are available, reliable, and responsive (McNiff, column 2 lines 11 – 24).

For claim 17, the combination of Lamb, Jones, and Hess fails to teach wherein the security measures include automatic cutover to the PSTN.

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However, McNiff discloses a hybrid switch coupled to a packet network and a TDM network for the purpose of establishing a communication session using one of these networks switching the communication session to the other one of these networks in response to stored metrics, user request, or other criteria, wherein the hybrid switch automatically detects VoIP link degradation and switches to the TDM (column 5 lines 20 – 55).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the combination of Lamb, Jones, and Hess with the teachings of McNiff so that the call control criteria include security measures that are further associated with subscribed services in the VoIP network as disclosed above in the combination of Lamb, Jones, and Hess, wherein these VoIP related security measures comprise automatic switch or cutover to the PSTN for the purpose of enforcing the VoIP service level agreements negotiated between the provider and the subscriber as disclosed above in the combination of Lamb, Jones, and Hess to ensure that the VoIP services are available, reliable, and responsive (McNiff, column 2 lines 11 – 24).

8. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb et al. (US 6,747,970) ("Lamb") in view of Jones (US 8,380,783), and further in view of Hess (US 5,598,464), and further in view of Examiner's official notice.

For claim 22, the combination of Lamb, Jones, and Hess fails to teach where one of the multiple subsystems is a digital signal processing subsystem.

However, Examiner takes official notice that it was well known and obvious in the computer arts that the multiple computer subsystems disclosed in the combination of Lamb,

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Jones, and Hess (Lamb, column 27 lines 33 - 36) comprise processors that perform digital signal processing to aid in the creation and modification of digitized signals used by the computer.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the combination of Lamb, Jones, and Hess with the teachings of examiner's official notice so that the multiple, supported subsystems disclosed above in the combination of Lamb, Jones, and Hess (Lamb, column 27 lines 33 - 36) are processors of the computers that perform digital signal processing for the purpose of aiding in the creation and modification of digitized signals used by the computer to perform its' operations, as designed.

Response to Arguments

9. Applicant's arguments, filed on 1/20/2013, have been considered, but are not persuasive. On pages 5 and 6 of the Remarks, Applicant argues that there is no indication that the combination of Lamb and Hess would result in a functioning system. However, both Lamb (Fig.3, column 27 lines 50 - 60) and Hess (Fig.1,Abstract) disclose connecting a call to a user in the PSTN. Lamb discloses a service node connected to a switch, or STP, to connect a call to a user in the PSTN (column 28 lines 9 - 16). Hess discloses a service node connected to an STP (Fig.1, 22 and 30), wherein signaling messages are conveyed from the service node using the STP (column 3 lines 1 - 5). Since both service node -STP combinations result in connecting a call to an endpoint within the PSTN, there is indication that the combination of Lamb and Hess, as disclosed above, would result in a functioning system. Neither the disclosure of Lamb or Hess

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disclose a unique and distinct functionality of their service node- STP combination outside of transmitting signaling messages to connect calls in the PSTN.

On page 6 of the Remarks, Applicant argues that Lamb's service node is located outside of the PSTN, and, therefore, cannot be a tandem switch. However, Lamb discloses that the service node can be located in a central office (column 30 - 45 - 60). Lamb further discloses that the central office is a part of the PSTN (Fig.1, column 36 - 52). Therefore, it is not a fact that the service node is located outside of the PSTN. Furthermore, Lamb's disclosure encompasses the service node as belonging to the PSTN. In combination with Hess, which discloses above that the service node is a tandem switch coupled to a SCP (a well-known database, not a switch), Lamb discloses the limitation of a communicating directly with a tandem switch within the PSTN.

Conclusion

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SONIA GAY whose telephone number is (571)270-1951. The examiner can normally be reached on Monday to Thursday from 7:30 AM to 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duc Nguyen can be reached on (571) 272-7503. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sonia Gay/
Examiner, Art Unit 2651
March 7, 2014

Search Notes 	Application/Control No. 13358353	Applicant(s)/Patent Under Reexamination WOOD ET AL.
	Examiner SONIA GAY	Art Unit 2651

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
379	211.01	12/17/2012	S.Gay
	Updated above search	6/24/2013	S.Gay
370	401,352	6/24/2013	S.Gay
	Updated above search	10/1/2013	S.Gay
	Updated above search	3/6/2014	S.Gay

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor Search	12/17/2012	S.Gay
Text Search	12/17/2012	S.Gay
Updated search	6/24/2013	S.Gay
Updated search	10/1/2013	S.Gay
Updated search	3/6/2014	S.Gay

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

/SONIA GAY/ Examiner.Art Unit 2651	
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EAST Search History**EAST Search History (Prior Art)**


Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	449	tandem adj switch and voip	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2014/03/07 00:45
L3	104	tandem adj switch same (scp controller) and voip	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2014/03/07 00:45
L4	104	tandem adj switch same (scp controller service adj control adj point) and voip	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2014/03/07 00:46
L5	246	tandem adj switch same (scp controller service adj control adj point) and (voice adj over adj ip voip internet)	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2014/03/07 00:46
L6	148	tandem adj switch same (scp controller service adj control adj point) and (voice adj over adj ip voip internet) and call with pstn	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2014/03/07 00:46

EAST Search History (Interference)

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3/7/2014 12:47:56 AM

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Index of Claims 	Application/Control No. 13358353	Applicant(s)/Patent Under Reexamination WOOD ET AL.
	Examiner SONIA GAY	Art Unit 2651

✓	Rejected
=	Allowed

-	Cancelled
÷	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

Claims renumbered in the same order as presented by applicant
 CPA
 T.D.
 R.1.47

CLAIM		DATE							
Final	Original	12/17/2012	06/24/2013	10/01/2013	03/06/2014				
	1	✓	✓	✓	✓				
	2	✓	✓	✓	✓				
	3	✓	✓	✓	✓				
	4	✓	✓	✓	✓				
	5	✓	✓	✓	✓				
	6	✓	✓	✓	✓				
	7	✓	✓	✓	✓				
	8	✓	✓	✓	✓				
	9	✓	✓	✓	✓				
	10	✓	✓	✓	✓				
	11	✓	✓	✓	✓				
	12	✓	✓	✓	✓				
	13	✓	✓	✓	✓				
	14	✓	✓	✓	✓				
	15	✓	✓	✓	✓				
	16	✓	✓	✓	✓				
	17	✓	✓	✓	✓				
	18	✓	✓	✓	✓				
	19	✓	✓	✓	✓				
	20	✓	✓	✓	✓				
	21	✓	✓	✓	✓				
	22		✓	✓	✓				

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 13/358,353
Applicant : Samuel F. Wood et al.
Filed : January 25, 2012
TC/A.U. : 2651
Conf. No. : 7896
Examiner : Sonia L. Gay
Title : TANDEM ACCESS CONTROLLER WITHIN THE PUBLIC
SWITCHED TELEPHONE NETWORK

Docket No. : 357323-990127
Customer No. : 26379

CERTIFICATE OF TRANSMISSION UNDER 37 CFR 1.8

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

I hereby certify that this correspondence is being transmitted via electronic submission, attention Mail Stop Amendment, Commissioner for Patents, Alexandria, VA 22313-1450, on **November 20, 2013**.

DLA PIPER LLP (US)

By: /Alan A. Limbach/
Alan A. Limbach

RESPONSE TO OFFICE ACTION OF OCTOBER 8, 2013

Sir:

In response to the Office Action of October 8, 2013, please enter the following:

The Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 5 of this paper.

The Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A method of using control criteria to route a communication between a user with access to a voice over IP (VOIP) communication network, and a called party with access to the public switched telephone network (PSTN) comprising:
 - receiving at a controller a signaling message indicating a communication from the user via the VOIP network;
 - using information in the signaling message to retrieve control criteria from a database, where the control criteria has been authenticated and derived from selections previously made by said user via a web server; and
 - using data associated with the communication combined with the control criteria to route the communication from the controller to the called party via a PSTN tandem switch without traversing any intervening switches between the controller and the PSTN tandem switch.
2. (Original) The method of claim 1 where the communication comprises a call.
3. (Original) The method of claim 1 where the communication comprises a short message.
4. (Previously Presented) The method of claim 1 where the signaling message indicating a communication is for a first call, and the routing of the communication constitutes a second call from the controller.
5. (Previously Presented) The method of claim 4 where the control criteria includes a phone number of the user.

6. (Previously Presented) The method of claim 4 where the selections made by the user via a web server include a selection of a phone number.

7. (Previously Presented) The method of claim 4 where the selections made by the user via a web server include an entering of a credit card number.

8. (Previously Presented) The method of claim 4 where the selections made by the user via a web server include an entering of personal information.

9. (Previously Presented) The method of claim 4 where the selections made by the user via a web server include a selection of features.

10. (Previously Presented) The method of claim 9 where the selection of features includes a selection of selective call forwarding.

11. (Previously Presented) The method of claim 9 where the selection of features includes a selection of caller ID blocking.

12. (Previously Presented) The method of claim 4 where the control criteria include security measures.

13. (Previously Presented) The method of claim 12 where the security measures include the prevention of denial of service attacks.

14. (Previously Presented) The method of claim 12 where the security measures include no direct access to a gateway.

15. (Previously Presented) The method of claim 12 where the security measures include an additional security layer to prevent hacking.

16. (Original) The method of claim 12, wherein the security measures include VOIP link degradation detection.

17. (Original) The method of claim 12, wherein the security measures include automatic cutover to the PSTN.

18. (Original) The method of claim 12, wherein the security measures include conditional call blocking.

19. (Original) The method of claim 12, wherein the security measures include call logging.

20. (Previously Presented) The method of claim 12, wherein the security measures include authentication of a calling party.

21. (Previously Presented) The method of claim 1 where the controller is of a distributed nature supporting multiple subsystems.

22. (Previously Presented) The method of claim 21, where one of the multiple subsystems is a digital signal processing (DSP) subsystem.

REMARKS/ARGUMENTS

Claims 1-22 are pending. Reconsideration is respectfully requested.

1. Rejection of Claims 1-2, 4-6, 8-10, 12, and 18-21 Under §103(a)

Claims 1-2, 4-6, 8-10, 12, and 18-21 stand rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,747,970 (Lamb) in view of U.S. Patent 8,380,783 (Jones) and U.S. Patent 5,598,464 (Hess). The Applicants respectfully traverse this rejection.

Claim 1 recites, among other things, using data associated with the communication combined with the control criteria to route the communication **from the controller to the called party via a PSTN tandem switch without traversing any intervening switches between the controller and the PSTN tandem switch.** On page 3 of the Office Action the Examiner acknowledges that Lamb fails to disclose this limitation. However, the Examiner state on page 4 of the office action that Lamb refers to TNS 202-1 as a service node, that Hess discloses a tandem switch and refers to it as a service node, and therefore it would have been obvious to modify Lamb with the teachings of Hess to initiate and route a call to the PSTN tandem switch without traversing any other intermediate switches between the controller and the PSTN tandem switch. The Applicant respectfully traverses on several grounds:

1. Merely referring to devices in different references as service nodes does not suggest, by itself, that they are interchangeable, let alone should be interchangeable. Therefore, even if the service node 22 of Hess is configured as a tandem switch, there is no support or suggestion that substituting SSP/SCP 22 of Hess with TNS 202-1 of Lamb would result in a functioning system. Specifically, the Examiner proposes replacing a server (202-1) with a switch (SSP/SCP 22), where it is connected to another switch (202-2). It is respectfully submitted that there is no indication that the resulting combination would result in a functioning system, let alone one that provides advanced telecommunications services as stated by the Examiner.

2. More importantly, even if SSP/SCP 22 of Hess were to replace TNS 202-1 of Lamb, it would not be a tandem switch. PSTN tandem switches direct calls to/from edge switches or other tandem switches (i.e. they are inside the PSTN). See paragraphs [0005], [0006], [0009] and [0037] of the present application. SSP/SCP 22 of Hess, replacing TNS 202-1 of Lamb, would be located outside of PSTN 101, and therefore would not be a PSTN tandem switch.

It is important to understand this key feature of claim 1, where a controller directly reaches into a PSTN by communicating directly with one of its tandem switches (i.e. without traversing any intervening switches between the controller and the PSTN tandem switch such as edge switches). There simply is no disclosure or suggestion to reconfigure the system of Lamb so that THS 203 communicates directly with a tandem switch inside PSTN 101, thus bypassing switch 202-2 (see Fig. 3 of Lamb below):

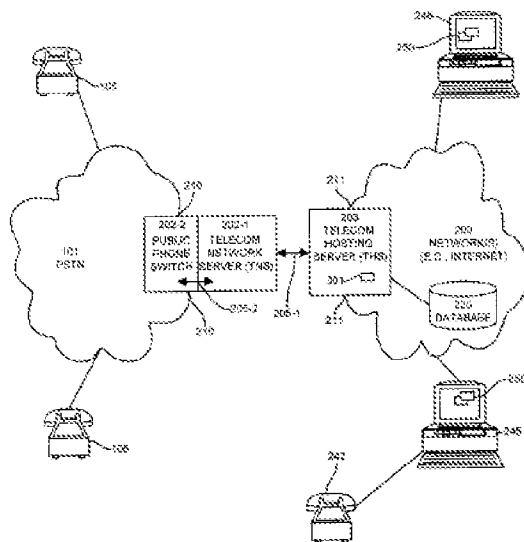


FIG. 3

This concept is not suggested by Lamb, and it is not suggested by the combination of Lamb and Hess and Jones. Therefore, it is respectfully submitted that claim 1 is not rendered obvious by Lamb, Jones and Hess.

Claims 2, 4-6, 8-10, 12 and 18-21

Claims 2, 4-6, 8-10, 12 and 18-21 depend from claim 1, and are therefore considered allowable for the reasons set forth above with respect to claim 1.

2. Rejection of Claim 3 Under §103(a)

Claim 3 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb in view of Jones and Hess, and in further view of U.S. Patent 5,943,399 (Bannister). The Applicants respectfully traverse this rejection. Claim 3 depends upon claim 1, and is therefore considered allowable for the reasons set forth above in Part 1 with respect to claim 1. The addition of Bannister fails to cure the stated deficiencies of Lamb, Jones and Hess.

3. Rejection of Claim 7 Under §103(a)

Claim 7 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb in view of Jones and Hess, and in further view of U.S. Patent 5,958,016 (Chang). The Applicants respectfully traverse this rejection. Claim 7 depends upon claim 1, and is therefore considered allowable for the reasons set forth above in Part 1 with respect to claim 1. The addition of Chang fails to cure the stated deficiencies of Lamb, Jones and Hess.

4. Rejection of Claim 11 Under §103(a)

Claim 11 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb in view of Jones and Hess, and in further view of U.S. Patent 6,185,285 (Relyea). The Applicants respectfully traverse this rejection. Claim 11 depends upon claim 1, and is therefore considered allowable for the reasons set forth above in Part 1 with respect to claim 1. The addition of Relyea fails to cure the stated deficiencies of Lamb, Jones and Hess.

5. Rejection of Claims 13 and 15 Under §103(a)

Claims 13 and 15 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb in view of Jones and Hess, and in further view of U.S. Patent 7,272,115 (Maher). The Applicants respectfully traverse this rejection. Claims 13 and 15 depend upon claim 1, and are therefore considered allowable for the reasons set forth above in Part 1 with respect to claim 1. The addition of Maher fails to cure the stated deficiencies of Lamb, Jones and Hess.

6. Rejection of Claim 14 Under §103(a)

Claim 14 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb in view of Jones and Hess, and in further view of U.S. Patent 5,596,579 (Yasrebi). The Applicants respectfully traverse this rejection. Claim 14 depends upon claim 1, and is therefore considered allowable for the reasons set forth above in Part 1 with respect to claim 1. The addition of Yasrebi fails to cure the stated deficiencies of Lamb, Jones and Hess.

7. Rejection of Claims 16 and 17 Under §103(a)

Claims 16 and 17 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb in view of Jones and Hess, and in further view of U.S. Patent 6,785,229 (McNiff). The Applicants respectfully traverse this rejection. Claims 16 and 17 depend upon claim 1, and are therefore considered allowable for the reasons set forth above in Part 1 with respect to claim 1. The addition of McNiff fails to cure the stated deficiencies of Lamb, Jones and Hess.

8. Rejection of Claim 22 Under §103(a)

Claim 22 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb in view of Jones and Hess, and in further view of Examiner's Official Notice that it was well known and obvious in the computer arts that computer subsystems disclosed in Lamb, Jones and Hess comprise processors that perform digital signal processing. Claim 22 depends upon claim 1, and is therefore considered allowable for the reasons set forth above in Part 1 with respect to

claim 1. The addition of Examiner's Official Notice fails to cure the stated deficiencies of Lamb, Jones and Hess.

For the foregoing reasons, it is respectfully submitted that the claims are in an allowable form, and action to that end is respectfully requested.

Respectfully submitted,

DLA PIPER US LLP

Dated: November 20, 2013

By: /Alan A. Limbach/
Alan A. Limbach
Reg. No. 39,749

Attorneys for Applicant(s)

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Electronic Acknowledgement Receipt

EFS ID:	17459547
Application Number:	13358353
International Application Number:	
Confirmation Number:	7896
Title of Invention:	Tandem Access Controller Within The Public Switched Telephone Network
First Named Inventor/Applicant Name:	Samuel F. Wood
Customer Number:	26379
Filer:	Alan A. Limbach/Kathleen LaBrie
Filer Authorized By:	Alan A. Limbach
Attorney Docket Number:	357323-990127
Receipt Date:	20-NOV-2013
Filing Date:	25-JAN-2012
Time Stamp:	17:46:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Req. Reconsideration-After Non-Final Reject	Response_to_10-8-13_Office_Action_357323-990127.pdf	137890 <small>98589e3a96dab8f95a29d2afd13bd4d3a40f5927</small>	no	9

Warnings:

Information:

000078

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/358,353	Filing Date 01/25/2012	<input type="checkbox"/> To be Mailed
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ENTITY: LARGE SMALL MICRO

APPLICATION AS FILED – PART I

FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)
<input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
<input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
<input type="checkbox"/> EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X \$ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$ =	
<input type="checkbox"/> APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

	(Column 1)	(Column 2)	(Column 3)	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT	11/20/2013	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR			
	Total (37 CFR 1.16(i))	* 22	Minus	** 22	= 0	X \$40 = 0
	Independent (37 CFR 1.16(h))	* 1	Minus	***3	= 0	X \$210 = 0
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))					
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					
					TOTAL ADD'L FEE	0

	(Column 1)	(Column 2)	(Column 3)	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR			
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$ =
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))					
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					
					TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
 ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
 *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/DEANNA RORIE/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/358,353	01/25/2012	Samuel F. Wood	357323-990127	7896
26379	7590	10/08/2013	EXAMINER	
DLA PIPER LLP (US) 2000 UNIVERSITY AVENUE EAST PALO ALTO, CA 94303-2248			GAY, SONIA L	
			ART UNIT	PAPER NUMBER
			2651	
			NOTIFICATION DATE	DELIVERY MODE
			10/08/2013	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PatentDocketingUS-PaloAlto@dlapiper.com

Office Action Summary	Application No. 13/358,353	Applicant(s) WOOD ET AL.	
	Examiner SONIA GAY	Art Unit 2651	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 9/13/2013.
 - A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
- 2a) This action is **FINAL**.
- 2b) This action is non-final.
- 3) An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
- 4) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 5) Claim(s) 1-22 is/are pending in the application.
 - 5a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 6) Claim(s) _____ is/are allowed.
- 7) Claim(s) 1-22 is/are rejected.
- 8) Claim(s) _____ is/are objected to.
- 9) Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

- 10) The specification is objected to by the Examiner.
- 11) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) All b) Some * c) None of the:
 - 1. Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____.
 - 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.
- 3) Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
- 4) Other: _____.

Art Unit: 2651

DETAILED ACTION

1. This action is in response to Amendment filed on 09/13/2013.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on September 13, 2013 has been entered.

Response to Amendment

3. Applicant's amendment filed on September 13, 2013 has been entered. Claim 1 has been amended. No claims have been canceled. No claims have been added. Claims 1 - 22 are still pending in this application, with claim 1 being independent.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Art Unit: 2651

4. Claims 1, 2, 4-6, 8 – 10, 12, and 18 - 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb et al. (US 6,747,970) (“Lamb”) in view of Jones (US 8,380,783), and further in view of Hess (US 5,598,464).

For claim 1, Lamb discloses a method of using control criteria to route a communication between a user with access to a VoIP network and a called party with access to the public switched telephone network (PSTN) (Abstract; column 4 lines 5 – column 5 line 3; column 46 lines 50 - 55; column 48 lines 2 - 9; column 48 lines 27 – 30, 38 - column 49 line 8) comprising: receiving at a control device (*telephone hosting server*, Fig.3, 203) a message indicating a communication from the user (call application message as message indicating a communication, column 12 lines 20 - 30; column 28 lines 33 – 39; column 43 lines 23 - 28) via the VoIP network (column 46 lines 50 – 55; column 47 lines 27 – 30, 38 – 41); using information in the message to retrieve control criteria (Table 1- Invite Processing Rules and Phone information, columns 38 and 39; column 47 lines 41 – 51; column 50 lines 15 -28, 52 - column 51 line 14) from a database (Fig.3, 220) (column 27 lines 30 – 33; column 29 lines 40 - 43), where control criteria has been authenticated (column 29 lines 61 - column 30 line 5) and derived from selections previously made by user (column 35 lines 5 – 14), via a web server (*telecommunications hosting server*, Fig.3, 203); and using data associated with the communication combined with the control criteria to route the communication from the controller to the called party via a PSTN service node (column 48 lines 38 - 55). Yet, Lamb fails to explicitly teach that the message is a signaling message; the PSTN service node is a tandem switch, wherein the call is routed without traversing any intervening switches between the controller and the tandem switch.

Art Unit: 2651

However, Lamb further discloses using HTTP to provide messaging of call requests (column 29 lines 40 - 52; column 12 lines 16 - 38); and routing calls to the PSTN via service node coupled to a public phone switch (STP), without traversing any other intervening switches (column 27 lines 5 - 26; column 28 lines 9 -14).

Additionally, Jones discloses a method for the purpose of processing web calls (Abstract), wherein a call request message, i.e. a Get document in HTTP, from a communication device with web browser (column 3 lines 3 - 10) is signaling used to begin a call.

Moreover, Hess discloses a method and apparatus for the purpose routing calls in the PSTN (Abstract), wherein a service node, which is coupled to a first switch (or STP) comprises a tandem switch coupled to a SCP (column 2 lines 52 - 63).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the teachings of Lamb with the teachings of Jones and Hess so that the message disclosed in Lamb is a signaling message comprising an indication of a communication, i.e. call request, to initiate and route a call to the PSTN tandem switch without traversing any other intermediate switches between the controller and the PSTN tandem switch, a tandem switch and SCP, for the purpose of providing advance telecommunications services to a user located in connectionless network (Lamb, column 1 lines 10 - 16), i.e. routing calls from the user to endpoints in the PSTN, wherein these services had previously been accessible via the PSTN.

For claim 2, Lamb further discloses where the communication comprises a call (Lamb, column 26 lines 24 - 31).

Art Unit: 2651

For claim 4, Lamb further discloses where the signaling messaging indicating a communications is for a first call (Lamb, column 48 lines 59 – column 49 line 5) and the routing of the communication constitutes a second call from the controller (Lamb, column 48 lines 39 - 47).

For claim 5, Lamb further discloses wherein the control criteria include a phone number of the user (Lamb, *Table 1- Phone Interface*, column 49 lines 53 – column 50 line 14; column 61 lines 11 - 33).

For claim 6, Lamb further discloses wherein the selections made via a web server include selection of a phone number (Lamb, *Table1- Phone Information*, column 35 lines 1 - 18; column 39 and 40; column 59 lines 3 – 6, 14 – 16; column 50 lines 52 – 55; column 51 lines 11 - 40; column 61 lines 11 - 33).

For claim 8, Lamb further discloses where the selections made by the user via a web server include the entering of personal information (Lamb, *Table1-Bibliographic Information*, column 37 and 38; column 35 lines 1 – 18).

For claim 9, Lamb further discloses where the selections made by the user via a web server include the selections of features (Lamb, *Table1-Invite processing rules*, column 37 and 38).

For claim 10, Lamb further discloses where a feature includes selective call forwarding (Lamb, column 50 lines 25 - 51).

For claim 12, Lamb further discloses where the control criteria include security measures (Lamb, *Table 1- Call logging and Availability Exposure Rules*, columns 37, 38, 39, 40; column 58 lines 46 – 51; column 62 lines 38 - 47).

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For claim 18, Lamb further discloses wherein the security measures include conditional call blocking (Lamb, column 51 lines 11 - 41).

For claim 19, Lamb further discloses wherein the security measures include call logging (Lamb, column 58 lines 46 – 51; column 62 lines 38 – 47).

For claim 20, Lamb further discloses wherein the security measures include authentication of a calling party (Lamb, column 29 lines 61 - column 30 line 5)

For claim 21, Lamb further discloses wherein the controller is of a distributed nature supporting multiple subsystems (Lamb, multiple user agents supporting multiple user clients as distributed, column 27 lines 26 – 40; column 29 lines 27 – 52).

2. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb et al. (US 6,747,970) (“Lamb”) in view of Jones (US 8,380,783), and further in view of Hess (US 5,598,464), and further in view of Bannister et al. (US 5,943,399) (“Bannister”).

For claim 3, the combination of Lamb, Jones, and Hess fails to teach where the communication comprises a short message.

However, Bannister discloses a method for the purpose of providing a communication to a telecommunications terminal coupled to the PSTN (Fig.1, 650; column 4 lines 61 – column 5 line 10) from a data terminal coupled to the Internet (Fig.1, 400; column 3 lines 66 – column 4 line 6), wherein a voice call (column 7 lines 15 – 57) or a short message (column 7 lines 64 – column 8 line 41) are sent from the data terminal to the telecommunications terminal (column 9 lines 24 - 30).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to improve and update the communication providing system disclosed in the combination of Lamb, Jones, and Hess to provide the predictable results of performing both voice call and short message call delivery from the Internet coupled user terminal disclosed by the combination of Lamb, Jones, and Hess for the purpose of satisfying consumers desires to place short message communications to wireless devices from their wired based communications (Bannister, column 1 lines 18 – 49), such as data terminals connected to the Internet via a LAN.

3. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb et al. (US 6,747,970) (“Lamb”) in view of Jones (US 8,380,783), and further in view of Hess (US 5,598,464), and further in view of Chang (US 5,958,016).

For claim 7, the combination of Lamb, Jones, and Hess fails to teach where the selections made by the user via the web server include an entering of a credit card number.

However, Chang discloses a method for the purpose of providing web page access to control services provided in a communications network (Abstract), wherein a subscriber selects services and/or modifies preexisting services using selections via a web interface (column 4 lines 45 - 48; column 20 lines 47 - column 21 lines 10; column 23 lines 55 - 64) including entering a credit card number (column 24 lines 17 – 19).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the combination of Lamb, Jones, and Hess with the teachings of Chang so that a credit card number is entered by a user for the purpose of facilitating more efficient bill payments for the communication services provided to the user in the combination of

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Lamb, Jones, and Hess, wherein credit cards can involve less processing time and greater assurance to the provider that payment will be received from the user.

4. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb et al. (US 6,747,970) (“Lamb”) in view of Jones (US 8,380,783), and further in view of Hess (US 5,598,464), and further in view of Relyea et al. (US 6,185,285) (“Relyea”).

For claim 11, the combination of Lamb, Jones, and Hess fails to teach where a feature includes caller ID blocking.

However, Relyea discloses a method for the purpose of the providing a user with information about and control over the communications service feature at a user terminal (Abstract), wherein a feature that can be selected by a user via a home page displayed on the user terminal includes caller ID blocking (Fig.3, 368; column 5 lines 17 - 22, 26 - 31, 42 - 56).

Therefore, it would have been obvious to modify the combination of Lamb, Jones, and Hess with the teachings of Relyea so that the features selected by the user disclosed above in the combination of Lamb, Jones, and Hess further comprise caller ID blocking for the purpose of providing an enhanced array of communications services to the user to increase user satisfaction with the communication network (Relyea, column 1 lines 16 - 20).

5. Claims 13 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb et al. (US 6,747,970) (“Lamb”) in view of Jones (US 8,380,783), and further in view of Hess (US 5,598,464), and further in view of Maher, III et al. (US 7,272,115) (“Maher”).

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For claim 13, the combination of Lamb, Jones, and Hess fails to teach where security measures include the prevention of denial of service attacks.

However, Maher discloses a method for the purpose of enforcing service level agreements in VoIP networks (Abstract; column 1 lines 23 – 40), wherein security measures provided by a network device in a VoIP network include the prevention of denial of service attacks (column 4 lines 63 - column 5 line 17; column 6 lines 53 - 63).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the combination of Lamb, Jones, and Hess with the teachings of Maher so that the call control criteria include security measures that are further associated with subscribed services in the VoIP network as disclosed above in the combination of Lamb, Jones, and Hess, wherein these VoIP related security measures comprise the prevention of denial of service attacks for the purpose of enforcing the VoIP service level agreements negotiated between the provider and the subscriber as disclosed above in the combination of Lamb, Jones, and Hess to ensure that the VoIP services are available, reliable, and responsive (Maher, column 1 lines 27 - 34).

For claim 15, the combination of Lamb, Jones, and Hess fails to teach where security measures include an additional security layer to prevent hacking.

However, Maher discloses a method for the purpose of enforcing service level agreements in VoIP networks (Abstract; column 1 lines 23 – 40), wherein security measures provided by a network device in a VoIP network include the prevention of hacking (column 4 lines 63 - column 5 line 17; column 6 lines 53 - 63).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the combination of Lamb, Jones, and Hess with the teachings of Maher so that the call control criteria include security measures that are further associated with subscribed services in the VoIP network as disclosed above in the combination Lamb, Jones, and Hess, wherein these VoIP related security measures comprise an additional layer of security to prevent hacking for the purpose of enforcing the VoIP service level agreements negotiated between the provider and the subscriber as disclosed above in the combination of Lamb, Jones, and Hess to ensure that the VoIP services are available, reliable, and responsive (Maher, column 1 lines 27 - 34).

6. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb et al. (US 6,747,970) ("Lamb") in view of Jones (US 8,380,783), and further in view of Hess (US 5,598,464), and further in view of Yasrebi (US 5,596,579).

For claim 14, the combination of Lamb, Jones, and Hess fails to teach where the security measures include no direct access to the gateway.

However, Yasrebi discloses a method for the purpose of linking client workstations on a LAN to a switched network using an interface mechanism (Abstract), wherein the interface mechanism isolates the workstations from direct access to the gateway ports (column 3 lines 24 - 36, 46 - 58).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the combination of Lamb, Jones, and Hess with the teachings of Yasrebi so that the call control criteria include security measures that are further associated with

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subscribed services in the VoIP network as disclosed above in the combination of Lamb, Jones, and Hess, wherein these VoIP related security measures comprise no direct access to the gateway by using an interface mechanism to isolate the user terminal disclosed above in the combination of Lamb, Jones, and Hess for the purpose of regulating network attachments in the gateway to impose frequency limit requirements for call activities (Yasrebi, column 3 lines 51 – 55).

7. Claims 16 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb et al. (US 6,747,970) (“Lamb”) in view of Jones (US 8,380,783), and further in view of Hess (US 5,598,464), and further in view of McNiff et al. (US 6,785,229) (“McNiff”).

For claim 16, the combination of Lamb, Jones, and Hess fails to teach wherein the security measures include VoIP link degradation detection.

However, McNiff discloses a hybrid switch coupled to a packet network and a TDM network for the purpose of establishing a communication session using one of these networks switching the communication session to the other one of these networks in response to stored metrics, user request, or other criteria, wherein the hybrid switch automatically detects VoIP link degradation (column 5 lines 20 – 55).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant’s invention to modify the combination of Lamb, Jones, and Hess with the teachings of McNiff so that the call control criteria include security measures that are further associated with subscribed services in the VoIP network as disclosed above in the combination of Lamb, Jones, and Hess, wherein these VoIP related security measures comprise VoIP link degradation detection for the purpose of enforcing the VoIP service level agreements negotiated between the

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provider and the subscriber as disclosed above in the combination of Lamb, Jones, and Hess to ensure that the VoIP services are available, reliable, and responsive (McNiff, column 2 lines 11 – 24).

For claim 17, the combination of Lamb, Jones, and Hess fails to teach wherein the security measures include automatic cutover to the PSTN.

However, McNiff discloses a hybrid switch coupled to a packet network and a TDM network for the purpose of establishing a communication session using one of these networks switching the communication session to the other one of these networks in response to stored metrics, user request, or other criteria, wherein the hybrid switch automatically detects VoIP link degradation and switches to the TDM (column 5 lines 20 – 55).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the combination of Lamb, Jones, and Hess with the teachings of McNiff so that the call control criteria include security measures that are further associated with subscribed services in the VoIP network as disclosed above in the combination of Lamb, Jones, and Hess, wherein these VoIP related security measures comprise automatic switch or cutover to the PSTN for the purpose of enforcing the VoIP service level agreements negotiated between the provider and the subscriber as disclosed above in the combination of Lamb, Jones, and Hess to ensure that the VoIP services are available, reliable, and responsive (McNiff, column 2 lines 11 – 24).

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8. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb et al. (US 6,747,970) (“Lamb”) in view of Jones (US 8,380,783), and further in view of Hess (US 5,598,464), and further in view of Examiner’s official notice.

For claim 22, the combination of Lamb, Jones, and Hess fails to teach where one of the multiple subsystems is a digital signal processing subsystem.

However, Examiner takes official notice that it was well known and obvious in the computer arts that the multiple computer subsystems disclosed in the combination of Lamb, Jones, and Hess (Lamb, column 27 lines 33 - 36) comprise processors that perform digital signal processing to aid in the creation and modification of digitized signals used by the computer.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the combination of Lamb, Jones, and Hess with the teachings of examiner’s official notice so that the multiple, supported subsystems disclosed above in the combination of Lamb, Jones, and Hess (Lamb, column 27 lines 33 - 36) are processors of the computers that perform digital signal processing for the purpose of aiding in the creation and modification of digitized signals used by the computer to perform its' operations, as designed.

Response to Arguments

5. Applicant’s arguments have been considered, but are not persuasive. On page 7 of the Remarks, Applicant argues that “ calls from server 203 of Lamb are routed into the PSTN 101 via edge switch 202-2.” However, column 48 lines 38 - 47 of Lamb disclose that the call signaling message is forwarded to the telecommunications network server 202-1, which is coupled to the PSTN (column 27 line 2 – 13). As previously discussed Lamb further discloses

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that telecommunications network server 202-1 is a service node connected to a switch or STP. In combination with Hess, this service node comprises a tandem switch coupled to an SCP. It is well known in the telephony art that a SCP is a server or database, not a switch. Therefore, the combination of Lamb and Hess disclose routing the call to the PSTN via a PSTN tandem switch without traversing intervening switches since the call is routed to the PSTN via the service node, wherein the service node comprises a tandem switch and no other intervening switches.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SONIA GAY whose telephone number is (571)270-1951. The examiner can normally be reached on Monday to Thursday from 7:30 AM to 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duc Nguyen can be reached on (571) 272-7503. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 13/358,353


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Art Unit: 2651

/Sonia Gay/

Examiner, Art Unit 2651

October 1, 2013

Search Notes 	Application/Control No. 13358353	Applicant(s)/Patent Under Reexamination WOOD ET AL.
	Examiner SONIA GAY	Art Unit 2651

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
379	211.01	12/17/2012	S.Gay
	Updated above search	6/24/2013	S.Gay
370	401,352	6/24/2013	S.Gay
	Updated above search	10/1/2013	S.Gay

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor Search	12/17/2012	S.Gay
Text Search	12/17/2012	S.Gay
Updated search	6/24/2013	S.Gay
Updated search	10/1/2013	S.Gay

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

/SONIA GAY/ Examiner.Art Unit 2651	
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Form PTO/SB/08 INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	U.S. DEPT. OF COMMERCE Patent and Trademark Office	Attorney Docket Number: 357323-990127	Serial Number: 13/358,353
	Applicants: Samuel F. Wood		
	Filing date: January 25, 2012	Group art unit: 2651	

U.S. PATENT DOCUMENTS


Examiner Initial	Patent No. Publication No.	Date	Name	Class	Sub-class	Filing date if appropriate
	6,192,123 B1	02/20/2001	Grunsted et al.			
	6,259,782 B1	07/10/2001	Gallant			

FOREIGN PATENT DOCUMENTS

	Document number	Date	Country	Class	Sub-class	Translation	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner: /Sonia Gay/	Date Considered: 10/01/2013
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP '609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	

<i>Index of Claims</i> 	Application/Control No. 13358353	Applicant(s)/Patent Under Reexamination WOOD ET AL.
	Examiner SONIA GAY	Art Unit 2651

✓	Rejected
=	Allowed

-	Cancelled
÷	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

Claims renumbered in the same order as presented by applicant
 CPA
 T.D.
 R.1.47

CLAIM		DATE							
Final	Original	12/17/2012	06/24/2013	10/01/2013					
	1	✓	✓	✓					
	2	✓	✓	✓					
	3	✓	✓	✓					
	4	✓	✓	✓					
	5	✓	✓	✓					
	6	✓	✓	✓					
	7	✓	✓	✓					
	8	✓	✓	✓					
	9	✓	✓	✓					
	10	✓	✓	✓					
	11	✓	✓	✓					
	12	✓	✓	✓					
	13	✓	✓	✓					
	14	✓	✓	✓					
	15	✓	✓	✓					
	16	✓	✓	✓					
	17	✓	✓	✓					
	18	✓	✓	✓					
	19	✓	✓	✓					
	20	✓	✓	✓					
	21	✓	✓	✓					
	22		✓	✓					

EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1846	tandem adj switch	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2013/10/01 11:54
L2	435	tandem adj switch and voip	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2013/10/01 11:54
L3	1	"6747970".pn.	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2013/10/01 12:18
L4	369	tandem adj switch same stp	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2013/10/01 12:44
L5	207	tandem adj switch with stp	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2013/10/01 12:45
L6	1	"5598464".pn.	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2013/10/01 12:53

EAST Search History (Interference)

<This search history is empty>

10/ 1/ 2013 1:44:42 PM

INFORMATION DISCLOSURE STATEMENT	Applicants:	Samuel F. Wood
	Application No.:	13/358,353
	Filed:	January 25, 2012
	For:	Tandem Access Controller Within the Public Switched Telephone Network
	Group Art Unit:	2651
	Examiner:	Sonia L. Gay
	Attorney Docket No.:	357323-990127

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In accordance with the provisions of 37 C.F.R. § 1.56(a) and 37 C.F.R. § 1.97, Applicant(s) hereby make of record the references listed on the accompanying Form PTO/SB/08 for consideration by the Examiner in connection with the examination of the above-identified patent application.

This Information Disclosure Statement:

- (a) accompanies a new RCE patent application submitted herewith.
- (b) is filed within three (3) months of the Filing Date or before the mailing date of a First Office Action on the merits; **OR**
- (c) is filed after the first Office Action and more than three months after the application's filing date or PCT national stage date of entry filing but, as far as is known to the undersigned prior to the mailing date of either a final rejection or a notice of allowance, and is accompanied by either the fee (\$180) set forth in 37 CFR § 1.17(p) or a certification as specified in 37 CFR § 1.97(e), as checked below **OR**
- (d) is filed after the mailing date of either a final rejection or a notice of allowance, and the issue fee has not been paid, and is accompanied by the requisite petition fee (\$130) set forth in 37 CFR § 1.17(l)(1) and a certification as specified in 37 CFR § 1.97(e), as checked below. This document is to be considered as a petition requesting consideration of the information disclosure statement.

As required under § 1.97(e), Applicants, through the undersigned, hereby state either that [check the appropriate space]:

- (e) Each item of information contained in the Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing date of the Information Disclosure Statement; or
- (f) No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

It is respectfully requested that each of the references shown on the attached Form PTO/SB/08 be made of record in this application. Copies of non-US references are enclosed

The Commissioner is authorized to charge any deficiencies and credit any overpayment of fees to our Deposit Account No. 07-1896.

Respectfully submitted,

Date: September 13, 2013

DLA PIPER LLP (US)

By: /Alan A. Limbach/

Alan A. Limbach

Reg. No. 39,749

Attorneys for Applicant(s)

DLA Piper LLP US
2000 University Avenue,
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Phone: 650-833-2433
Facsimile: 650-833-2001

Customer Number or Bar Code Label

26379

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Page 2 of 2

I hereby certify that this correspondence is being transmitted via electronic submission, attention M/S Amendment, Commissioner for Patents; Alexandria, VA 22313-1450.

September 13, 2013

Date

/Alan A. Limbach/

Signature

Form PTO/SB/08 INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	U.S. DEPT. OF COMMERCE Patent and Trademark Office	Attorney Docket Number: 357323-990127	Serial Number: 13/358,353
	Applicants: Samuel F. Wood		
	Filing date: January 25, 2012	Group art unit: 2651	

U.S. PATENT DOCUMENTS

Examiner Initial	Patent No. Publication No.	Date	Name	Class	Sub-class	Filing date if appropriate
	6,192,123 B1	02/20/2001	Grunsted et al.			
	6,259,782 B1	07/10/2001	Gallant			

FOREIGN PATENT DOCUMENTS

	Document number	Date	Country	Class	Sub-class	Translation	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner:	Date Considered:
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP '609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Request for Continued Examination (RCE) Transmittal

Address to:
Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Application Number	13/358,353
Filing Date	January 25, 2012
First Named Inventor	Samuel F. Wood
Art Unit	2651
Examiner Name	Sonia L. Gay
Attorney Docket Number	357323-990127

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.

Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

1. **Submission required under 37 CFR 1.114** Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

a. Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

i. Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

ii. Other _____

b. Enclosed

i. Amendment/Reply

iii. Information Disclosure Statement (IDS)

ii. Affidavit(s)/ Declaration(s)

iv. Other _____

2. Miscellaneous

Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a

a. period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

b. Other _____

3. Fees

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

The Director is hereby authorized to charge the following fees any underpayment of fees or credit any overpayments to

a. Deposit Account No. 07-1896.

i. RCE fee required under 37 CFR 1.17(e)

ii. Extension of time fee (37 CFR 1.136 and 1.17)

iii. Other _____

b. Check in the amount of \$ _____ enclosed

c. Payment by credit card (Form PTO-2038 enclosed)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Signature	/Alan A. Limbach/	Date	September 13, 2013
Name (Print/Type)	Alan A. Limbach	Registration No.	39,749

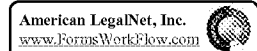
CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.

Signature		Date	
Name (Print/Type)		Date	

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Electronic Patent Application Fee Transmittal

Application Number:	13358353
Filing Date:	25-Jan-2012
Title of Invention:	Tandem Access Controller Within The Public Switched Telephone Network
First Named Inventor/Applicant Name:	Samuel F. Wood
Filer:	Alan A. Limbach/Kathleen LaBrie
Attorney Docket Number:	357323-990127

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Request for Continued Examination	2801	1	600	600
Total in USD (\$)				600

Electronic Acknowledgement Receipt

EFS ID:	16850984
Application Number:	13358353
International Application Number:	
Confirmation Number:	7896
Title of Invention:	Tandem Access Controller Within The Public Switched Telephone Network
First Named Inventor/Applicant Name:	Samuel F. Wood
Customer Number:	26379
Filer:	Alan A. Limbach
Filer Authorized By:	
Attorney Docket Number:	357323-990127
Receipt Date:	13-SEP-2013
Filing Date:	25-JAN-2012
Time Stamp:	18:01:30
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$600
RAM confirmation Number	5629
Deposit Account	071896
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Response After Final Action	Response_to_7-3-13_Office_Ac tion_357323-990127.pdf	204512 0b02d0521404868ae591e39416ff7a379a3 0b5b9	no	10

Warnings:

Information:

2	Information Disclosure Statement (IDS) Form (SB08)	IDS_filed_with_RCE_357323-99 0127.pdf	188021 7e1b78a880279aaa4d67ff3dc44b9547744 6f798	no	3
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Warnings:

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3	Request for Continued Examination (RCE)	RCE_Transmittal_357323-9901 27.pdf	199951 afa6902897a8710c4f0be8f631c13a3a578d 88ca	no	1
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Information:

4	Fee Worksheet (SB06)	fee-info.pdf	30345 1ede9d9f825c9fed51ca11efad0979852337 850e	no	2
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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 13/358,353
Applicant : Samuel F. Wood et al.
Filed : January 25, 2012
TC/A.U. : 2651
Conf. No. : 7896
Examiner : Sonia L. Gay
Title : TANDEM ACCESS CONTROLLER WITHIN THE PUBLIC
SWITCHED TELEPHONE NETWORK

Docket No. : 357323-990127
Customer No. : 26379

CERTIFICATE OF TRANSMISSION UNDER 37 CFR 1.8

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DLA PIPER LLP (US)

By: /Alan A. Limbach/
Alan A. Limbach

RESPONSE TO OFFICE ACTION OF JULY 3, 2013, SUBMITTED WITH RCE

Sir:

In response to the Office Action of July 3, 2013, and in conjunction with the RCE filed herewith, please amend the above identified application as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 5 of this paper.

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of using control criteria to route a communication between a user with access to a voice over IP (VOIP) communication network, and a called party with access to the public switched telephone network (PSTN) comprising:
 - receiving at a controller a signaling message indicating a communication from the user via the VOIP network;
 - using information in the signaling message to retrieve control criteria from a database, where the control criteria has been authenticated and derived from selections previously made by said user via a web server; and
 - using data associated with the communication combined with the control criteria to route the communication from the controller to the called party via a PSTN tandem switch without traversing any intervening switches between the controller and the PSTN tandem switch.
2. (Original) The method of claim 1 where the communication comprises a call.
3. (Original) The method of claim 1 where the communication comprises a short message.
4. (Previously Presented) The method of claim 1 where the signaling message indicating a communication is for a first call, and the routing of the communication constitutes a second call from the controller.
5. (Previously Presented) The method of claim 4 where the control criteria includes a phone number of the user.

6. (Previously Presented) The method of claim 4 where the selections made by the user via a web server include a selection of a phone number.

7. (Previously Presented) The method of claim 4 where the selections made by the user via a web server include an entering of a credit card number.

8. (Previously Presented) The method of claim 4 where the selections made by the user via a web server include an entering of personal information.

9. (Previously Presented) The method of claim 4 where the selections made by the user via a web server include a selection of features.

10. (Previously Presented) The method of claim 9 where the selection of features includes a selection of selective call forwarding.

11. (Previously Presented) The method of claim 9 where the selection of features includes a selection of caller ID blocking.

12. (Previously Presented) The method of claim 4 where the control criteria include security measures.

13. (Previously Presented) The method of claim 12 where the security measures include the prevention of denial of service attacks.

14. (Previously Presented) The method of claim 12 where the security measures include no direct access to a gateway.

15. (Previously Presented) The method of claim 12 where the security measures include an additional security layer to prevent hacking.

16. (Original) The method of claim 12, wherein the security measures include VOIP link degradation detection.

17. (Original) The method of claim 12, wherein the security measures include automatic cutover to the PSTN.

18. (Original) The method of claim 12, wherein the security measures include conditional call blocking.

19. (Original) The method of claim 12, wherein the security measures include call logging.

20. (Previously Presented) The method of claim 12, wherein the security measures include authentication of a calling party.

21. (Previously Presented) The method of claim 1 where the controller is of a distributed nature supporting multiple subsystems.

22. (Previously Presented) The method of claim 21, where one of the multiple subsystems is a digital signal processing (DSP) subsystem.

REMARKS/ARGUMENTS

Claims 1-22 are pending. Claim 1 has been amended. Reconsideration is respectfully requested.

1. Rejection of Claims 1-2, 4-6, 8-10, 12, and 18-21 Under §103(a)

Claims 1-2, 4-6, 8-10, 12, and 18-21 stand rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,747,970 (Lamb) in view of U.S. Patent 8,380,783 (Jones) and U.S. Patent 5,598,464 (Hess). The Applicants respectfully traverse this rejection.

Before discussing the rejection it would be useful to discuss the conventional operation of public switched telephone networks (PSTNs) and the Applicant's invention as recited in the amended claims herein.

It is well known that a conventional PSTN includes edge switches (commonly referred to as central office switches or C.O. switches) that originate and terminate calls for connected subscribers, and tandem switches which route those calls internally within the PSTN (i.e. tandem switches are not capable of originating or terminating PSTN calls, but rather directs calls to/from an edge switch or another tandem switch). See paragraphs [0005], [0006], [0009] and [0037] of the present application. Therefore, it is the edge switches that place and receive calls for connected subscribers (i.e. telephones), and those calls are directed between the edge switches via one or more tandem switches.

Edge switches have well known disadvantages. Edge devices add cost, degrade voice and transmission quality, can be difficult to program, are not easily programmed remotely, can require the user to pay for two lines, provide lower quality of service, and cannot provide the same level of functionality as a system that controls the PSTN directly. See paragraph [0013].

In contrast, the present invention is a method of using a controller at the border between a voice over IP (VOIP) communication network and a circuit-switched network such as the PSTN. The controller can be used to add features and security measures to each call that crosses the border. The controller can be separate and independent from the VOIP network and the circuit

switched network to which it is connected. The controller is connected to (and routes communications to) the PSTN tandem switch, bypassing (and eliminating the need for) a PSTN edge switch.

Claim 1

To better clarify the present invention, claim 1 has been amended to recite, among other things, that the communication (using data associated with the communication combined with the control criteria) is routed from the controller to the called party via a PSTN tandem switch without traversing any intervening switches between the controller and the PSTN tandem switch. No new matter has been added, as this feature is shown in Figs 1-2 and 7-8 of the present application, with communications routed from controller 10 to PSTN tandem switch(es) 16 without any intervening switches (i.e. no edge switches). Figure 1 of the present application is reproduced below:

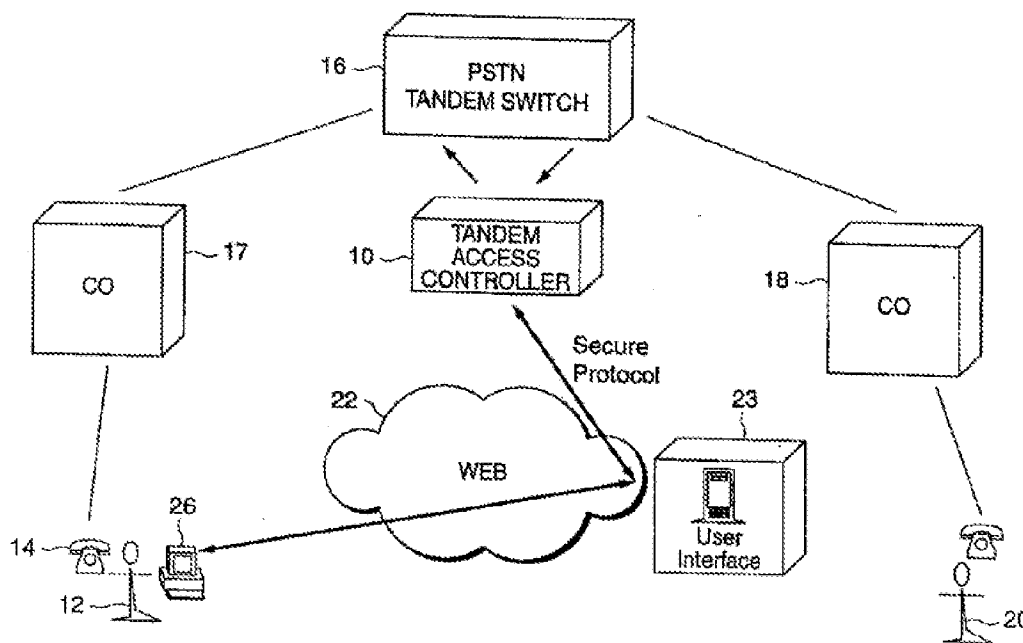


FIG. 1

This configuration and method is distinguishable from systems such as Lamb which rely on PSTN edge switches to route communications from VOIP networks to PSTNs. With the present invention, edge switches not only are bypassed, but they could be rendered obsolete in the routing of communications between IP (VOIP) communication networks and public switched telephone networks (PSTNs). There is no suggestion in Lamb of routing calls from a VOIP communications network using a controller connected to a PSTN tandem switch with no intervening switches, as recited in claim 1. Instead, calls from server 203 of Lamb are routed into the PSTN 101 via edge switch 202-2. See Figure 3 of Lamb below:

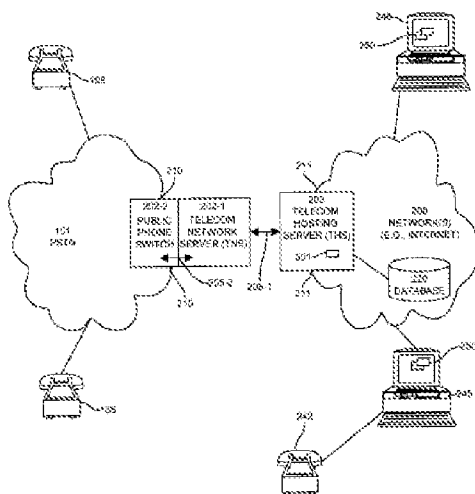


FIG. 3

There is no suggestion in Lamb of routing communications from a controller into a PSTN tandem switch with no intervening switches, as recited in claim 1. The addition of Jones and Hess fails to cure these deficiencies of Lamb. Therefore, it is submitted that claim 1 as amended is not rendered obvious by Lamb, Jones and Hess.

Claims 2, 4-6, 8-10, 12 and 18-21

Claims 2, 4-6, 8-10, 12 and 18-21 depend from claim 1, and are therefore considered allowable for the reasons set forth above with respect to claim 1.

2. Rejection of Claim 3 Under §103(a)

Claim 3 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb in view of Jones and Hess, and in further view of U.S. Patent 5,943,399 (Bannister). The Applicants respectfully traverse this rejection. Claim 3 depends upon claim 1, and is therefore considered allowable for the reasons set forth above in Part 1 with respect to claim 1. The addition of Bannister fails to cure the stated deficiencies of Lamb, Jones and Hess.

3. Rejection of Claim 7 Under §103(a)

Claim 7 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb in view of Jones and Hess, and in further view of U.S. Patent 5,958,016 (Chang). The Applicants respectfully traverse this rejection. Claim 7 depends upon claim 1, and is therefore considered allowable for the reasons set forth above in Part 1 with respect to claim 1. The addition of Chang fails to cure the stated deficiencies of Lamb, Jones and Hess.

4. Rejection of Claim 11 Under §103(a)

Claim 11 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb in view of Jones and Hess, and in further view of U.S. Patent 6,185,285 (Relyea). The Applicants respectfully traverse this rejection. Claim 11 depends upon claim 1, and is therefore considered allowable for the reasons set forth above in Part 1 with respect to claim 1. The addition of Relyea fails to cure the stated deficiencies of Lamb, Jones and Hess.

5. Rejection of Claims 13 and 15 Under §103(a)

Claims 13 and 15 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb in view of Jones and Hess, and in further view of U.S. Patent 7,272,115 (Maher). The Applicants respectfully traverse this rejection. Claims 13 and 15 depend upon claim 1, and are therefore considered allowable for the reasons set forth above in Part 1 with respect to claim 1. The addition of Maher fails to cure the stated deficiencies of Lamb, Jones and Hess.

6. Rejection of Claim 14 Under §103(a)

Claim 14 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb in view of Jones and Hess, and in further view of U.S. Patent 5,596,579 (Yasrebi). The Applicants respectfully traverse this rejection. Claim 14 depends upon claim 1, and is therefore considered allowable for the reasons set forth above in Part 1 with respect to claim 1. The addition of Yasrebi fails to cure the stated deficiencies of Lamb, Jones and Hess.

7. Rejection of Claims 16 and 17 Under §103(a)

Claims 16 and 17 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb in view of Jones and Hess, and in further view of U.S. Patent 6,785,229 (McNiff). The Applicants respectfully traverse this rejection. Claims 16 and 17 depend upon claim 1, and are therefore considered allowable for the reasons set forth above in Part 1 with respect to claim 1. The addition of McNiff fails to cure the stated deficiencies of Lamb, Jones and Hess.

8. Rejection of Claim 21 Under §103(a)

Claim 21 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb in view of Jones and Hess, and in further view of Examiner's Official Notice that it was well known and obvious in the computer arts that computer subsystems disclosed in Lamb, Jones and Hess comprise processors that perform digital signal processing. It is assumed that the Examiner intended to reject claim 22 on official notice, not claim 21, as claim 22 recites that one of the multiple subsystems is a digital signal processing (DSP) subsystem. The Applicants respectfully traverse this rejection with respect to claim 22. Claim 22 depends upon claim 1, and is therefore considered allowable for the reasons set forth above in Part 1 with respect to claim 1. The addition of Examiner's Official Notice fails to cure the stated deficiencies of Lamb, Jones and Hess.

Appl. No.: 13/358,353
Docket No.: 357323-990127
Response to Office Action of July 3, 2013

For the foregoing reasons, it is respectfully submitted that the claims are in an allowable form, and action to that end is respectfully requested.

Respectfully submitted,

DLA PIPER US LLP

Dated: September 13, 2013

By: /Alan A. Limbach/
Alan A. Limbach
Reg. No. 39,749

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/358,353	Filing Date 01/25/2012	<input checked="" type="checkbox"/> To be Mailed
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ENTITY: LARGE SMALL MICRO

APPLICATION AS FILED – PART I

FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)
<input type="checkbox"/> BASIC FEE <small>(37 CFR 1.16(a), (b), or (c))</small>	N/A	N/A	N/A	
<input type="checkbox"/> SEARCH FEE <small>(37 CFR 1.16(k), (l), or (m))</small>	N/A	N/A	N/A	
<input type="checkbox"/> EXAMINATION FEE <small>(37 CFR 1.16(o), (p), or (q))</small>	N/A	N/A	N/A	
TOTAL CLAIMS <small>(37 CFR 1.16(i))</small>	minus 20 =	*	X \$ =	
INDEPENDENT CLAIMS <small>(37 CFR 1.16(h))</small>	minus 3 =	*	X \$ =	
<input type="checkbox"/> APPLICATION SIZE FEE <small>(37 CFR 1.16(s))</small>	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT <small>(37 CFR 1.16(j))</small>				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

	(Column 1)	(Column 2)	(Column 3)	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT	09/13/2013	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR			
	Total <small>(37 CFR 1.16(i))</small>	* 22	Minus	** 22	= 0	X \$40 = 0
	Independent <small>(37 CFR 1.16(h))</small>	* 1	Minus	***3	= 0	X \$210 = 0
	<input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>					
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>						
					TOTAL ADD'L FEE	0

	(Column 1)	(Column 2)	(Column 3)	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR			
	Total <small>(37 CFR 1.16(i))</small>	*	Minus	**	=	X \$ =
	Independent <small>(37 CFR 1.16(h))</small>	*	Minus	***	=	X \$ =
	<input type="checkbox"/> Application Size Fee <small>(37 CFR 1.16(s))</small>					
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <small>(37 CFR 1.16(j))</small>						
					TOTAL ADD'L FEE	

LIE
/NICHELE PETERSON/

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/358,353	01/25/2012	Samuel F. Wood	357323-990127	7896
26379	7590	07/03/2013	EXAMINER	
DLA PIPER LLP (US) 2000 UNIVERSITY AVENUE EAST PALO ALTO, CA 94303-2248			GAY, SONIA L	
			ART UNIT	PAPER NUMBER
			2651	
			NOTIFICATION DATE	DELIVERY MODE
			07/03/2013	ELECTRONIC

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PatentDocketingUS-PaloAlto@dlapiper.com

Art Unit: 2651

DETAILED ACTION

1. This action is in response to Amendment filed on 04/18/2013.

Terminal Disclaimer

2. The terminal disclaimer filed on 04/18/2013 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of 8,175,240 and 8,155, 298 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Response to Amendment

3. Applicant's amendment filed on April 18, 2013 has been entered. Claims 1, 4, 5 – 15, 20, and 21 have been amended. No claims have been canceled. Claim 21 has been added. Claims 1 - 21 are still pending in this application, with claim 1 being independent.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1, 2, 4-6, 8 – 10, 12, and 18 - 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb et al. (US 6,747,970) (“Lamb”) in view of Jones (US 8,380,783), and further in view of Hess (US 5,598,464).

Art Unit: 2651

For claim 1, Lamb discloses a method of using control criteria to route a communication between a user with access to a VoIP network and a called party with access to the public switched telephone network (PSTN) (Abstract; column 4 lines 5 – column 5 line 3; column 46 lines 50 - 55; column 48 lines 2 - 9; column 48 lines 27 – 30, 38 - column 49 line 8) comprising: receiving at a control device (*telephone hosting server*, Fig.3, 203) a message indicating a communication from the user (call application message as message indicating a communication, column 12 lines 20 - 30; column 28 lines 33 – 39; column 43 lines 23 - 28) via the VoIP network (column 46 lines 50 – 55; column 47 lines 27 – 30, 38 – 41); using information in the message to retrieve control criteria (Table 1- Invite Processing Rules and Phone information, columns 38 and 39; column 47 lines 41 – 51; column 50 lines 15 -28, 52 - column 51 line 14) from a database (Fig.3, 220) (column 27 lines 30 – 33; column 29 lines 40 - 43), where control criteria has been authenticated (column 29 lines 61 - column 30 line 5) and derived from selections previously made by user (column 35 lines 5 – 14), via a web server (*telecommunications hosting server*, Fig.3, 203); and using data associated with the communication combined with the control criteria to route the communication from the controller to the called party via a PSTN switch (column 48 lines 38 - 55). Yet, Lamb fails to explicitly teach that the message is a signaling message and teach that the PSTN switch is a tandem switch.

However, Lamb discloses using HTTP to provide messaging of call requests (column 29 lines 40 - 52; column 12 lines 16 - 38) and a service node coupled to a public phone switch to route calls through the PSTN (column 27 lines 5 - 26; column 28 lines 9 -14).

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Additionally, Jones discloses a method for the purpose of processing web calls (Abstract), wherein a call request message, i.e. a Get document in HTTP, from a communication device with web browser (column 3 lines 3 – 10) is signaling used to begin a call.

Moreover, Hess discloses a method and apparatus for the purpose routing calls in the PSTN (Abstract), wherein a service node comprises a tandem switch computed to a SCP (column 2 lines 52 – 63).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the teachings of Lamb with the teachings of Jones and Hess so that the message disclosed in Lamb is a signaling message comprising an indication of a communication, i.e. call request, to initiate a call to the PSTN via a service node that comprises a PSTN tandem switch for the purpose of providing advance telecommunications services to a user located in connectionless network (Lamb, column 1 lines 10 - 16), i.e. routing calls from the user to endpoints in the PSTN, wherein these services had previously been accessible via the PSTN.

For claim 2, Lamb further discloses where the communication comprises a call (Lamb, column 26 lines 24 - 31).

For claim 4, Lamb further discloses where the signaling messaging indicating a communications is for a first call (Lamb, column 48 lines 59 – column 49 line 5) and the routing of the communication constitutes a second call from the controller (Lamb, column 48 lines 39 - 47).

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For claim 5, Lamb further discloses wherein the control criteria include a phone number of the user (Lamb, *Table 1- Phone Interface*, column 49 lines 53 – column 50 line 14; column 61 lines 11 - 33).

For claim 6, Lamb further discloses wherein the selections made via a web server include selection of a phone number (Lamb, *Table 1- Phone Information*, column 35 lines 1 - 18; column 39 and 40; column 59 lines 3 – 6, 14 – 16; column 50 lines 52 – 55; column 51 lines 11 - 40; column 61 lines 11 - 33).

For claim 8, Lamb further discloses where the selections made by the user via a web server include the entering of personal information (Lamb, *Table 1-Bibliographic Information*, column 37 and 38; column 35 lines 1 – 18).

For claim 9, Lamb further discloses where the selections made by the user via a web server include the selections of features (Lamb, *Table 1-Invite processing rules*, column 37 and 38).

For claim 10, Lamb further discloses where a feature includes selective call forwarding (Lamb, column 50 lines 25 - 51).

For claim 12, Lamb further discloses where the control criteria include security measures (Lamb, *Table 1- Call logging and Availability Exposure Rules*, columns 37, 38, 39, 40; column 58 lines 46 – 51; column 62 lines 38 - 47).

For claim 18, Lamb further discloses wherein the security measures include conditional call blocking (Lamb, column 51 lines 11 - 41).

For claim 19, Lamb further discloses wherein the security measures include call logging (Lamb, column 58 lines 46 – 51; column 62 lines 38 – 47).

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For claim 20, Lamb further discloses wherein the security measures include authentication of a calling party (Lamb, column 29 lines 61 - column 30 line 5)

For claim 21, Lamb further discloses wherein the controller is of a distributed nature supporting multiple subsystems (Lamb, multiple user agents supporting multiple user clients as distributed, column 27 lines 26 – 40; column 29 lines 27 – 52).

5. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb et al. (US 6,747,970) (“Lamb”) in view of Jones (US 8,380,783), and further in view of Hess (US 5,598,464), and further in view of Bannister et al. (US 5,943,399) (“Bannister”).

For claim 3, the combination of Lamb, Jones, and Hess fails to teach where the communication comprises a short message.

However, Bannister discloses a method for the purpose of providing a communication to a telecommunications terminal coupled to the PSTN (Fig.1, 650; column 4 lines 61 – column 5 line 10) from a data terminal coupled to the Internet (Fig.1, 400; column 3 lines 66 – column 4 line 6), wherein a voice call (column 7 lines 15 – 57) or a short message (column 7 lines 64 – column 8 line 41) are sent from the data terminal to the telecommunications terminal (column 9 lines 24 - 30).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant’s invention to improve and update the communication providing system disclosed in the combination of Lamb, Jones, and Hess to provide the predictable results of performing both voice call and short message call delivery from the Internet coupled user terminal disclosed by the combination of Lamb, Jones, and Hess for the purpose of satisfying consumers desires to

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place short message communications to wireless devices from their wired based communications (Bannister, column 1 lines 18 – 49), such as data terminals connected to the Internet via a LAN.

6. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb et al. (US 6,747,970) (“Lamb”) in view of Jones (US 8,380,783), and further in view of Hess (US 5,598,464), and further in view of Chang (US 5,958,016).

For claim 7, the combination of Lamb, Jones, and Hess fails to teach where the selections made by the user via the web server include an entering of a credit card number.

However, Chang discloses a method for the purpose of providing web page access to control services provided in a communications network (Abstract), wherein a subscriber selects services and/or modifies preexisting services using selections via a web interface (column 4 lines 45 - 48; column 20 lines 47 - column 21 lines 10; column 23 lines 55 - 64) including entering a credit card number (column 24 lines 17 – 19).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the combination of Lamb, Jones, and Hess with the teachings of Chang so that a credit card number is entered by a user for the purpose of facilitating more efficient bill payments for the communication services provided to the user in the combination of Lamb, Jones, and Hess, wherein credit cards can involve less processing time and greater assurance to the provider that payment will be received from the user.

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7. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb et al. (US 6,747,970) (“Lamb”) in view of Jones (US 8,380,783), and further in view of Hess (US 5,598,464), and further in view of Relyea et al. (US 6,185,285) (“Relyea”).

For claim 11, the combination of Lamb, Jones, and Hess fails to teach where a feature includes caller ID blocking.

However, Relyea discloses a method for the purpose of the providing a user with information about and control over the communications service feature at a user terminal (Abstract), wherein a feature that can be selected by a user via a home page displayed on the user terminal includes caller ID blocking (Fig.3, 368; column 5 lines 17 - 22, 26 – 31, 42 – 56).

Therefore, it would have been obvious to modify the combination of Lamb, Jones, and Hess with the teachings of Relyea so that the features selected by the user disclosed above in the combination of Lamb, Jones, and Hess further comprise caller ID blocking for the purpose of providing an enhanced array of communications services to the user to increase user satisfaction with the communication network (Relyea, column 1 lines 16 - 20).

8. Claims 13 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb et al. (US 6,747,970) (“Lamb”) in view of Jones (US 8,380,783), and further in view of Hess (US 5,598,464), and further in view of Maher, III et al. (US 7,272,115) (“Maher”).

For claim 13, the combination of Lamb, Jones, and Hess fails to teach where security measures include the prevention of denial of service attacks.

However, Maher discloses a method for the purpose of enforcing service level agreements in VoIP networks (Abstract; column 1 lines 23 – 40), wherein security measures

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provided by a network device in a VoIP network include the prevention of denial of service attacks (column 4 lines 63 - column 5 line 17; column 6 lines 53 - 63).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the combination of Lamb, Jones, and Hess with the teachings of Maher so that the call control criteria include security measures that are further associated with subscribed services in the VoIP network as disclosed above in the combination of Lamb, Jones, and Hess, wherein these VoIP related security measures comprise the prevention of denial of service attacks for the purpose of enforcing the VoIP service level agreements negotiated between the provider and the subscriber as disclosed above in the combination of Lamb, Jones, and Hess to ensure that the VoIP services are available, reliable, and responsive (Maher, column 1 lines 27 - 34).

For claim 15, the combination of Lamb, Jones, and Hess fails to teach where security measures include an additional security layer to prevent hacking.

However, Maher discloses a method for the purpose of enforcing service level agreements in VoIP networks (Abstract; column 1 lines 23 - 40), wherein security measures provided by a network device in a VoIP network include the prevention of hacking (column 4 lines 63 - column 5 line 17; column 6 lines 53 - 63).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the combination of Lamb, Jones, and Hess with the teachings of Maher so that the call control criteria include security measures that are further associated with subscribed services in the VoIP network as disclosed above in the combination Lamb, Jones, and

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Hess, wherein these VoIP related security measures comprise an additional layer of security to prevent hacking for the purpose of enforcing the VoIP service level agreements negotiated between the provider and the subscriber as disclosed above in the combination of Lamb, Jones, and Hess to ensure that the VoIP services are available, reliable, and responsive (Maher, column 1 lines 27 - 34).

9. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb et al. (US 6,747,970) ("Lamb") in view of Jones (US 8,380,783), and further in view of Hess (US 5,598,464), and further in view of Yasrebi (US 5,596,579).

For claim 14, the combination of Lamb, Jones, and Hess fails to teach where the security measures include no direct access to the gateway.

However, Yasrebi discloses a method for the purpose of linking client workstations on a LAN to a switched network using an interface mechanism (Abstract), wherein the interface mechanism isolates the workstations from direct access to the gateway ports (column 3 lines 24 - 36, 46 - 58).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the combination of Lamb, Jones, and Hess with the teachings of Yasrebi so that the call control criteria include security measures that are further associated with subscribed services in the VoIP network as disclosed above in the combination of Lamb, Jones, and Hess, wherein these VoIP related security measures comprise no direct access to the gateway by using an interface mechanism to isolate the user terminal disclosed above in the combination

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of Lamb, Jones, and Hess for the purpose of regulating network attachments in the gateway to impose frequency limit requirements for call activities (Yasrebi, column 3 lines 51 – 55).

10. Claims 16 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb et al. (US 6,747,970) (“Lamb”) in view of Jones (US 8,380,783), and further in view of Hess (US 5,598,464), and further in view of McNiff et al. (US 6,785,229) (“McNiff”).

For claim 16, the combination of Lamb, Jones, and Hess fails to teach wherein the security measures include VoIP link degradation detection.

However, McNiff discloses a hybrid switch coupled to a packet network and a TDM network for the purpose of establishing a communication session using one of these networks switching the communication session to the other one of these networks in response to stored metrics, user request, or other criteria, wherein the hybrid switch automatically detects VoIP link degradation (column 5 lines 20 – 55).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant’s invention to modify the combination of Lamb, Jones, and Hess with the teachings of McNiff so that the call control criteria include security measures that are further associated with subscribed services in the VoIP network as disclosed above in the combination of Lamb, Jones, and Hess, wherein these VoIP related security measures comprise VoIP link degradation detection for the purpose of enforcing the VoIP service level agreements negotiated between the provider and the subscriber as disclosed above in the combination of Lamb, Jones, and Hess to ensure that the VoIP services are available, reliable, and responsive (McNiff, column 2 lines 11 – 24).

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For claim 17, the combination of Lamb, Jones, and Hess fails to teach wherein the security measures include automatic cutover to the PSTN.

However, McNiff discloses a hybrid switch coupled to a packet network and a TDM network for the purpose of establishing a communication session using one of these networks switching the communication session to the other one of these networks in response to stored metrics, user request, or other criteria, wherein the hybrid switch automatically detects VoIP link degradation and switches to the TDM (column 5 lines 20 – 55).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the combination of Lamb, Jones, and Hess with the teachings of McNiff so that the call control criteria include security measures that are further associated with subscribed services in the VoIP network as disclosed above in the combination of Lamb, Jones, and Hess, wherein these VoIP related security measures comprise automatic switch or cutover to the PSTN for the purpose of enforcing the VoIP service level agreements negotiated between the provider and the subscriber as disclosed above in the combination of Lamb, Jones, and Hess to ensure that the VoIP services are available, reliable, and responsive (McNiff, column 2 lines 11 – 24).

11. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lamb et al. (US 6,747,970) ("Lamb") in view of Jones (US 8,380,783), and further in view of Hess (US 5,598,464), and further in view of Examiner's official notice.

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For claim 20, the combination of Lamb, Jones, and Hess fails to teach where one of the multiple subsystems is a digital signal processing subsystem.

However, Examiner takes official notice that it was well known and obvious in the computer arts that the multiple computer subsystems disclosed in the combination of Lamb, Jones, and Hess (Lamb, column 27 lines 33 - 36) comprise processors that perform digital signal processing to aid in the creation and modification of digitized signals used by the computer.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the combination of Lamb, Jones, and Hess with the teachings of examiner's official notice so that the multiple, supported subsystems disclosed above in the combination of Lamb, Jones, and Hess (Lamb, column 27 lines 33 - 36) are processors of the computers that perform digital signal processing for the purpose of aiding in the creation and modification of digitized signals used by the computer to perform its' operations, as designed.

Response to Arguments

12. Applicant's arguments have been considered but are moot because the arguments do not apply to any of the references being used in the current rejection.

Conclusion

13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Art Unit: 2651

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SONIA GAY whose telephone number is (571)270-1951. The examiner can normally be reached on Monday to Thursday from 7:30 AM to 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duc Nguyen can be reached on (571) 272-7503. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2651

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sonia Gay/
Examiner, Art Unit 2651
June 25, 2013

/DUC NGUYEN/

Supervisory Patent Examiner, Art Unit 2651

Notice of References Cited	Application/Control No. 13/358,353	Applicant(s)/Patent Under Reexamination WOOD ET AL.	
	Examiner SONIA GAY	Art Unit 2651	Page 1 of 1

U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A US-6,747,970	06-2004	Lamb et al.	370/352
*	B US-8,380,783	02-2013	Jones, Bryce A.	709/203
*	C US-5,598,464	01-1997	Hess et al.	379/211.03
*	D US-5,943,399	08-1999	Bannister et al.	379/88.17
	E US-			
	F US-			
	G US-			
	H US-			
	I US-			
	J US-			
	K US-			
	L US-			
	M US-			


FOREIGN PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N				
	O				
	P				
	Q				
	R				
	S				
	T				

NON-PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)				
	U				
	V				
	W				
	X				

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Search Notes 	Application/Control No. 13358353	Applicant(s)/Patent Under Reexamination WOOD ET AL.
	Examiner SONIA GAY	Art Unit 2651

CPC- SEARCHED		
Symbol	Date	Examiner


CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
379	211.01	12/17/2012	S.Gay
	Updetd above search	6/24/2013	S.Gay
370	401,352	6/24/2013	S.Gay

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor Search	12/17/2012	S.Gay
Text Search	12/17/2012	S.Gay
Updated text earchs	6/24/2013	S.GAy

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

/SONIA GAY/ Examiner.Art Unit 2651	
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<i>Index of Claims</i> 	Application/Control No. 13358353	Applicant(s)/Patent Under Reexamination WOOD ET AL.
	Examiner SONIA GAY	Art Unit 2651

✓	Rejected
=	Allowed


-	Cancelled
÷	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

Claims renumbered in the same order as presented by applicant
 CPA
 T.D.
 R.1.47

CLAIM		DATE							
Final	Original	12/17/2012	06/24/2013						
	1	✓	✓						
	2	✓	✓						
	3	✓	✓						
	4	✓	✓						
	5	✓	✓						
	6	✓	✓						
	7	✓	✓						
	8	✓	✓						
	9	✓	✓						
	10	✓	✓						
	11	✓	✓						
	12	✓	✓						
	13	✓	✓						
	14	✓	✓						
	15	✓	✓						
	16	✓	✓						
	17	✓	✓						
	18	✓	✓						
	19	✓	✓						
	20	✓	✓						
	21	✓	✓						
	22		✓						

Application Number 	Application/Control No. 13/358,353	Applicant(s)/Patent under Reexamination WOOD ET AL.	

Document Code - DISQ	Internal Document – DO NOT MAIL
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TERMINAL DISCLAIMER	<input checked="" type="checkbox"/> APPROVED	<input type="checkbox"/> DISAPPROVED
Date Filed : 4/18/13	This patent is subject to a Terminal Disclaimer	

Approved/Disapproved by:

Janice Ford
 2 tds approved

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**TERMINAL DISCLAIMER TO OBIVATE A DOUBLE PATENTING
REJECTION OVER A "PRIOR" PATENT**Docket Number (Optional)
357323-990127

In re Application of: Samuel F. Wood, et al.

Application No.: 13/358,353

Filed: January 25, 2012

For: TANDEM ACCESS CONTROLLER WITHIN THE PUBLIC SWITCHED TELEPHONE NETWORK

The owner*, Telemaze LLC, of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of **prior patent** No. 8,175,240 as the term of said **prior patent** is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the **prior patent** are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the **prior patent**, "as the term of said **prior patent** is presently shortened by any terminal disclaimer," in the event that said **prior patent** later:

- expires for failure to pay a maintenance fee;
- is held unenforceable;
- is found invalid by a court of competent jurisdiction;
- is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
- has all claims canceled by a reexamination certificate;
- is reissued; or
- is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

Check either box 1 or 2 below, if appropriate.

1. For submissions on behalf of a business/organization (e.g., corporation, partnership, university, government agency, etc.), the undersigned is empowered to act on behalf of the business/organization.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

2. The undersigned is an attorney or agent of record. Reg. No. 39,749

/Alan A. Limbach/

Signature

April 18, 2013

Date

Alan A. Limbach

Typed or printed name

650-833-2433

Telephone Number

- Terminal disclaimer fee under 37 CFR 1.20(d) included.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).
Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

This collection of information is required by 37 CFR 1.321. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Patent Application Fee Transmittal

Application Number:	13358353
Filing Date:	25-Jan-2012
Title of Invention:	Tandem Access Controller Within The Public Switched Telephone Network
First Named Inventor/Applicant Name:	Samuel F. Wood
Filer:	Alan A. Limbach/Kathleen LaBrie
Attorney Docket Number:	357323-990127

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Claims in excess of 20	2202	1	40	40

Miscellaneous-Filing:

Petition:

Patent-Appeals-and-Interference:

Post-Allowance-and-Post-Issuance:

Extension-of-Time:

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension - 1 month with \$0 paid	2251	1	100	100
Miscellaneous:				
Statutory or Terminal Disclaimer	1814	2	160	320
Total in USD (\$)				460

Electronic Acknowledgement Receipt

EFS ID:	15553951
Application Number:	13358353
International Application Number:	
Confirmation Number:	7896
Title of Invention:	Tandem Access Controller Within The Public Switched Telephone Network
First Named Inventor/Applicant Name:	Samuel F. Wood
Customer Number:	26379
Filer:	Alan A. Limbach
Filer Authorized By:	
Attorney Docket Number:	357323-990127
Receipt Date:	18-APR-2013
Filing Date:	25-JAN-2012
Time Stamp:	19:40:46
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$460
RAM confirmation Number	5843
Deposit Account	071896
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Req. Reconsideration-After Non-Final Reject	Response_to_1-2-13_Office_Ac tion_357323-990127.pdf	266390 3d2bb12b37f3fad8ad0d7aa56848c931b8836daf	no	12

Warnings:

Information:

2	Terminal Disclaimer Filed	Terminal_Disclaimer_Over_815 5298.pdf	148004 04b1c3c92a60ddc04854f9197783ccb80b99cb1f	no	1
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Warnings:

Information:

3	Terminal Disclaimer Filed	Terminal_Disclaimer_Over_817 5240.pdf	148006 37ddd5f9df12c158521089ea7f7a6ae4ba20856a	no	1
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Warnings:

Information:

4	Fee Worksheet (SB06)	fee-info.pdf	33675 95727d6dd4852b1573d52976064263a6658660ef	no	2
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Warnings:

Information:

Total Files Size (in bytes): 596075

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 13/358,353
Applicant : Samuel F. Wood et al.
Filed : January 25, 2012
TC/A.U. : 2651
Conf. No. : 7896
Examiner : Sonia L. Gay
Title : TANDEM ACCESS CONTROLLER WITHIN THE PUBLIC
SWITCHED TELEPHONE NETWORK

Docket No. : 357323-990127
Customer No. : 26379

CERTIFICATE OF TRANSMISSION UNDER 37 CFR 1.8

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

I hereby certify that this correspondence is being transmitted via electronic submission, attention Mail Stop Amendment, Commissioner for Patents, Alexandria, VA 22313-1450, on **April 18, 2013**.

DLA PIPER LLP (US)

By: /Alan A. Limbach/
Alan A. Limbach

RESPONSE TO OFFICE ACTION OF JANUARY 2, 2013

Sir:

In response to the Office Action of January 2, 2013, please amend the above identified application as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 5 of this paper.

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of using ~~call~~ control criteria to route a communication between a user with access to a voice over IP (VOIP) communication network, and a called party with access to the public switched telephone network (PSTN) comprising:
 - receiving at a ~~control device~~ controller a signaling message indicating a communication ~~request~~ from the user via the VOIP network;
 - using information in the ~~communication request~~ signaling message to retrieve ~~call~~ control criteria from a database, where the ~~call~~ control criteria has been authenticated and derived from selections previously made by said user via a web server; and
 - using data associated with the communication ~~request message~~ combined with the ~~call~~ control criteria to route the communication from the controller to the called party via a ~~class 4~~ PSTN tandem switch.
2. (Original) The method of claim 1 where the communication comprises a call.
3. (Original) The method of claim 1 where the communication comprises a short message.
4. (Currently Amended) The method of claim 1 where the ~~communication request~~ signaling message indicating a communication is for a first call, and the routing of the communication constitutes a second call from the controller.
5. (Currently Amended) The method of claim 4 4 where the ~~call~~ control criteria includes ~~the~~ a phone number of the user.

6. (Currently Amended) The method of claim ~~4~~ 4 where the selections made by the user via a web server include ~~the~~ a selection of a phone number.

7. (Currently Amended) The method of claim ~~4~~ 4 where the selections made by the user via a web server include ~~the~~ an entering of a ~~valid~~ credit card number.

8. (Currently Amended) The method of claim ~~4~~ 4 where the selections made by the user via a web server include ~~the~~ an entering of personal information.

9. (Currently Amended) The method of claim ~~4~~ 4 where the selections made by the user via a web server include ~~the~~ a selection of features.

10. (Currently Amended) The method of claim 9 where ~~a feature~~ the selection of features includes a selection of selective call forwarding.

11. (Currently Amended) The method of claim 9 where ~~a feature~~ the selection of features includes a selection of caller ID blocking.

12. (Currently Amended) The method of claim ~~4~~ 4 where the ~~call~~ control criteria include security measures.

13. (Currently Amended) The method of claim 12 where the security measures include the prevention of denial of service attacks.

14. (Currently Amended) The method of claim 12 where the security measures include no direct access to ~~the~~ a gateway.

15. (Currently Amended) The method of claim 12 where the security measures include an additional security layer to prevent hacking.

16. (Original) The method of claim 12, wherein the security measures include VOIP link degradation detection.

17. (Original) The method of claim 12, wherein the security measures include automatic cutover to the PSTN.

18. (Original) The method of claim 12, wherein the security measures include conditional call blocking.

19. (Original) The method of claim 12, wherein the security measures include call logging.

20. (Currently Amended) The method of claim 12, wherein the security measures include authentication of ~~the~~ a calling party.

21. (Currently Amended) The method of claim 1 where the ~~control device~~ controller is of a distributed nature ~~occupying multiple locations~~ supporting multiple subsystems.

22. (New) The method of claim 21, where one of the multiple subsystems is a digital signal processing (DSP) subsystem.

REMARKS/ARGUMENTS

Claims 1-22 are pending. Claims 1, 4-15, 20-21 have been amended, and claim 22 has been newly added. Reconsideration is respectfully requested.

1. Priority For Claim 15

On page 2 of the Office Action, the Examiner had difficulties locating support for claim 15 in the parent application. The Examiner's attention is drawn to the following portions ***of the present application*** which support claim 15:

- See paragraph 0041, which states that “authorized” means a subscriber who is registered and has logged-in with appropriate security and password controls.
- See Fig. 4, which indicates that a message is authenticated before the “Perform function (e.g. dial a call”).
- See paragraph 0117, which explicitly discloses “Additional Security Layer” as an advantage of the invention.

The above identified disclosures can be found in all the parent applications:

- For the disclosure in paragraph 0041:
 - US 11/428,822: Page 8, lines 13-14.
 - US 10/426,279: Page 7, lines 5-6.
 - US 09/565,565: Page 6, lines 18-19.
- For Fig. 4:
 - US 11/428,822: Fig. 4.
 - US 10/426,279: Fig. 4.
 - US 09/565,565: Fig. 4.
- For the disclosure paragraph 0117:
 - US 11/428,822: Page 13, line 22.
 - US 10/426,279: Page 11, line 26.
 - US 09/565,565: Page 11, line 12.

It is therefore respectfully submitted that claim 15 is supported in all the parent applications.

2. Objection To Claim 14

Claim 14 was objected to because of the following informality: “to the gateway” should be “to a gateway.” Claim 14 has been so amended.

3. Rejection of Claims 1-21: Nonstatutory Obviousness-Type Double Patenting

Claims 1-21 stand rejected on the ground of nonstatutory obviousness-type double patenting over claims 1-42 of U.S. Patent No. 8,155,298 in view of Graves et al. (U.S. 7,069,291) and Examiner’s Official Notice.

The Applicants respectfully traverse all grounds of this rejection. However, to expedite the prosecution of this case, a terminal disclaimer with respect to U.S. Patent No. 8,155,298 is submitted herewith to overcome this rejection.

4. Rejection of Claims 1-21: Nonstatutory Obviousness-Type Double Patenting

Claims 1-21 stand rejected on the ground of nonstatutory obviousness-type double patenting over claims 1-82 of U.S. Patent No. 8,175,240.

The Applicants respectfully traverse all grounds of this rejection. However, to expedite the prosecution of this case, a terminal disclaimer with respect to U.S. Patent No. 8,175,240 is submitted herewith to overcome this rejection.

5. Rejection of Claims 1-3, 6-10, 12, 18 and 20-21 Under §103(a)

Claims 1-3, 6-10, 12, 18 and 20-21 stand rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 7,069,291 (Graves) in view of U.S. Patent 5,958,016 (Chang) and U.S. Patent 6,118,780 (Dunn). The Applicants respectfully traverse this rejection.

Before discussing the rejection it would be useful to discuss applicant's invention as claimed as amended herein. The present application discloses the use of a controller at the border between a voice over IP (VOIP) communication network and a circuit-switched network such as the PSTN. The controller can be used to add features and security measures to each call that crosses the border. The controller can be separate and independent from the VOIP network and the circuit switched network to which it is connected. The controller is distinguishable from a C.O. switch (as in Graves) because it need not have subscribers connected via dedicated channels or physical connections. Instead, the controller can rely on the C.O. switches of the connected networks to process digits entered by subscribers into calls which are then routed to the controller, which receives these communications (calls, or VOIP sessions), and adds features and capabilities to the communications as they traverse the controller. As the controller need not be directly connected to subscribers, it allows subscribers to establish service and change features via a web server (e.g. on the Internet) once the generated control criteria has been authenticated (see Fig. 4).

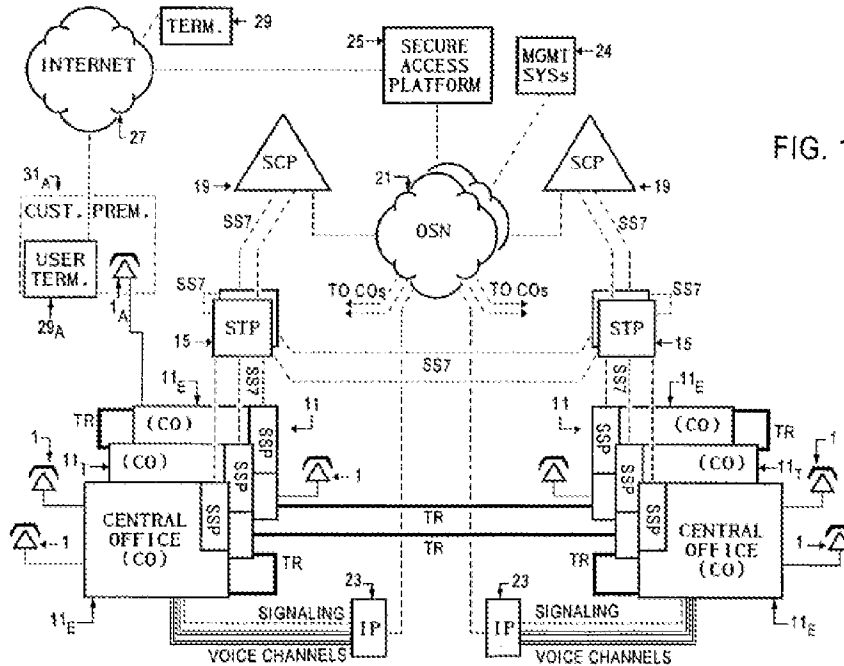
Claim 1

To better clarify the present invention, claim 1 has been amended to recite, among other things, the receiving at a controller a signaling message indicating a communication from the user *via the VOIP network*. There is no suggestion in Graves of receiving a signaling message indicating a communication from a user via the VOIP network. Instead, Graves discloses receiving an incoming call from another switch or terminal (phone set and PBX for example) from within the PSTN. (See col. 22, line 64 to col. 23, line 10.) The addition of Chang and Dunn fails to cure the deficiencies of Graves. Therefore, on this basis alone, it is submitted that claim 1 as amended is not rendered obvious by Graves, Chang and Dunn.

In addition, as acknowledged by the Examiner on page 6 of the Office Action, Graves fails to teach where the control criteria has been derived from selections previously made by said user via a web server. However, the Examiner states that Chang discloses a method for providing web page access to control services provided in a communication network, and

concludes on page 7 of the Office Action that it would have been obvious to modify Graves with the teachings of Chang and Dunn “so that web pages used to provide call control criteria or service information disclosed in Graves can be modified by using selections provided by a user via a web interface and web server.” The Applicants respectfully traverse.

Chang discloses a web interface for providing subscriber access to control and reporting functionalities of a communication network, and specifically the personal control of services provided by the communication network to any subscriber who also uses the Internet. See Abstract. As shown in Fig. 1 of Chang, the user terminal 29 connects via the internet 27, through platform 25 and network 21, to intelligent peripherals 23.



The IPs 23 connect to one or more of the central offices 11. See col. 9, lines 48-49. Therefore, the web interface in Chang is provided to the IPs 23 for “personal control **of services provided by the communication network,**” not to the routing aspects of the central office switches that control the routing of calls. This is an important distinction (personal control of services provided by the communication network versus control of the routing of communications through the network itself). One skilled in the art would not have been motivated to provide user

access to the routing aspects of central office switches because then users could essentially take over (i.e. hack) the telephone system.

In contrast, Graves discloses an alternative to the traditional SS7-based PSTN in favor of an Extensible Service Policy Architecture (ESPA) for delivering telephony and other services using web-based service logic and IP message distribution for signaling. See Col. 2, lines 41-48. A switch proxy 25 is added to an existing switch 15, thereby providing conductivity to a plurality of servers. See Fig. 9.

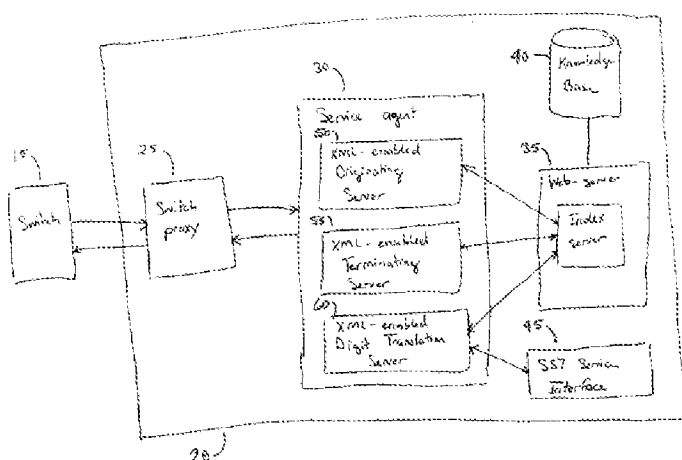


Fig. 9

Call set-up is accomplished by searching a knowledge base to find a Web page corresponding to the initiating caller. See Col. 2, lines 30-34.

The Examiner states it would have been obvious to modify Graves with the teachings of Chang and Dunn “so that web pages used to provide call control criteria or service information disclosed in Graves can be modified by using selections provided by a user via a web interface and web server.” Yet, the control criteria or service information disclosed in Graves dictates how the telephone switches route calls. See Col. 9, lines 1-9; Abstract. Therefore, providing a user interface to the web pages used to provide call control criteria or service information in Graves would mean that users could directly control the call routing switches (i.e. users could essentially take over or hack the call routing in the PSTN network). It is respectfully submitted

that one skilled in the art would not be motivated, and would not find it obvious, to provide a user interface to the knowledge base 40 of Graves as suggested by the Examiner.

To better clarify this point, claim 1 has been amended to recite that the control criteria “has been **authenticated** and derived from selections previously made by the user via a web server.” As illustrated in Fig. 4 of the present application, authentication based on state/input is provided to prevent any improper access or control by a user of the call routing (i.e. of the call routing switches). There is no suggestion in the combination of Graves and Chang as proposed by the Examiner to do this.

Therefore, it is respectfully submitted that one skilled in the art would not have found it obvious to combine the teachings of Chang and Dunn to those of Graves as proposed by the Examiner.

For all the above reasons, it is respectfully submitted that claim 1 is not rendered obvious by Graves, Chang and Dunn.

Claims 2-3, 6-10, 12, 18,20-21

Claims 2-3, 6-10, 12, 18 and 20-21 depend from claim 1, and are therefore considered allowable for the reasons set forth above with respect to claim 1.

6. Rejection of Claim 4 Under §103(a)

Claim 4 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Graves in view of Chang and Dunn, and in further view of U.S. Patent 5,329,581 (Friedes). The Applicants respectfully traverse this rejection. Claim 4 depends upon claim 1, and is therefore considered allowable for the reasons set forth above in Part 5 with respect to claim 1. The addition of Friedes fails to cure the stated deficiencies of Graves, Chang and Dunn.

7. Rejection of Claim 11 Under §103(a)

Claim 11 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Graves in view of Chang and Dunn, and in further view of U.S. Patent 6,185,285 (Relyea). The Applicants

respectfully traverse this rejection. Claim 11 depends upon claim 1, and is therefore considered allowable for the reasons set forth above in Part 5 with respect to claim 1. The addition of Relyea fails to cure the stated deficiencies of Graves, Chang and Dunn.

8. Rejection of Claim 13 and 15 Under §103(a)

Claims 13 and 15 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Graves in view of Chang and Dunn, and in further view of U.S. Patent 7,272,115 (Maher). The Applicants respectfully traverse this rejection. Claims 13 and 15 depend upon claim 1, and are therefore considered allowable for the reasons set forth above in Part 5 with respect to claim 1. The addition of Maher fails to cure the stated deficiencies of Graves, Chang and Dunn.

9. Rejection of Claim 14 Under §103(a)

Claim 14 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Graves in view of Chang and Dunn, and in further view of U.S. Patent 5,596,579 (Yasrebi). The Applicants respectfully traverse this rejection. Claim 14 depends upon claim 1, and is therefore considered allowable for the reasons set forth above in Part 5 with respect to claim 1. The addition of Yasrebi fails to cure the stated deficiencies of Graves, Chang and Dunn.

10. Rejection of Claim 16 and 17 Under §103(a)

Claims 16 and 17 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Graves in view of Chang and Dunn, and in further view of U.S. Patent 6,785,229 (McNiff). The Applicants respectfully traverse this rejection. Claims 16 and 17 depend upon claim 1, and are therefore considered allowable for the reasons set forth above in Part 5 with respect to claim 1. The addition of McNiff fails to cure the stated deficiencies of Graves, Chang and Dunn.

11. Rejection of Claim 21 Under §103(a)

Claim 21 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Graves in view of Chang and Dunn, and in further view of U.S. Patent Publication 2004/0151294 (Baniak). The Applicants respectfully traverse this rejection. Claim 21 depends upon claim 1, and is therefore considered allowable for the reasons set forth above in Part 5 with respect to claim 1. The addition of Baniak fails to cure the stated deficiencies of Graves, Chang and Dunn.

12. Newly Added Claim

Claim 22 has been newly added to more particularly claim what the Applicants regard as the invention. No new matter has been added, as paragraph [0053] supports this newly added claim.

For the foregoing reasons, it is respectfully submitted that the claims are in an allowable form, and action to that end is respectfully requested.

Respectfully submitted,

DLA PIPER US LLP

Dated: April 18, 2013

By: /Alan A. Limbach/
Alan A. Limbach
Reg. No. 39,749

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**TERMINAL DISCLAIMER TO OBIVATE A DOUBLE PATENTING
REJECTION OVER A "PRIOR" PATENT**Docket Number (Optional)
357323-990127

In re Application of: Samuel F. Wood, et al.

Application No.: 13/358,353

Filed: January 25, 2012

For: TANDEM ACCESS CONTROLLER WITHIN THE PUBLIC SWITCHED TELEPHONE NETWORK

The owner*, Telemaze LLC, of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of **prior patent** No. 8,155,298 as the term of said **prior patent** is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the **prior patent** are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the **prior patent**, "as the term of said **prior patent** is presently shortened by any terminal disclaimer," in the event that said **prior patent** later:

- expires for failure to pay a maintenance fee;
- is held unenforceable;
- is found invalid by a court of competent jurisdiction;
- is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
- has all claims canceled by a reexamination certificate;
- is reissued; or
- is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

Check either box 1 or 2 below, if appropriate.

1. For submissions on behalf of a business/organization (e.g., corporation, partnership, university, government agency, etc.), the undersigned is empowered to act on behalf of the business/organization.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

2. The undersigned is an attorney or agent of record. Reg. No. 39,749

/Alan A. Limbach/

Signature

April 18, 2013

Date

Alan A. Limbach

Typed or printed name

650-833-2433

Telephone Number

- Terminal disclaimer fee under 37 CFR 1.20(d) included.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).
Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

This collection of information is required by 37 CFR 1.321. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/358,353	Filing Date 01/25/2012	<input type="checkbox"/> To be Mailed
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ENTITY: LARGE SMALL MICRO

APPLICATION AS FILED – PART I

FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)
<input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
<input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	
<input type="checkbox"/> EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X \$ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$ =	
<input type="checkbox"/> APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

	(Column 1)	(Column 2)	(Column 3)	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT	04/18/2013	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR			
	Total (37 CFR 1.16(i))	* 22	Minus	** 21	= 1	X \$40 = 40
	Independent (37 CFR 1.16(h))	* 1	Minus	***3	= 0	X \$210 = 0
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))					
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	40

	(Column 1)	(Column 2)	(Column 3)	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR			
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$ =
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))					
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
 ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
 *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
 The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
 /PATRICIA WARNER/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/358,353	01/25/2012	Samuel F. Wood	357323-990127	7896
26379	7590	01/02/2013	EXAMINER	
DLA PIPER LLP (US) 2000 UNIVERSITY AVENUE EAST PALO ALTO, CA 94303-2248			GAY, SONIA L	
			ART UNIT	PAPER NUMBER
			2651	
			NOTIFICATION DATE	DELIVERY MODE
			01/02/2013	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PatentDocketingUS-PaloAlto@dlapiper.com

Office Action Summary	Application No.	Applicant(s)	
	13/358,353	WOOD ET AL.	
	Examiner	Art Unit	
	SONIA GAY	2651	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 25 January 2012.
- 2a) This action is **FINAL**.
- 2b) This action is non-final.
- 3) An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
- 4) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 5) Claim(s) 1-21 is/are pending in the application.
- 5a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 6) Claim(s) _____ is/are allowed.
- 7) Claim(s) 1-21 is/are rejected.
- 8) Claim(s) _____ is/are objected to.
- 9) Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

- 10) The specification is objected to by the Examiner.
- 11) The drawing(s) filed on 25 January 2012 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
 - 1. Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____.
 - 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.
- 3) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 4) Other: _____.

Art Unit: 2651

DETAILED ACTION

1. This action is in response to the initial filing of Application No. 13/358353 on 01/25/2012.
2. Claims 1 - 21 are still pending in this application, with claim 1 being independent.
3. Examiner reviewed the parent applications to assess applicant's claims of priority. During the review Examiner had difficulties locating support for claim 15 in the parent application. Unless Applicant provides evidence showing support for this claim limitations in the parent application, claim 15 will be given the application date of the current application.
4. Applicant submitted 42 pages of IDS references. Examiner made every attempt to review the references submitted on the 1449 IDS forms. However, the amount of references submitted on the 1449 IDS forms were so numerous that it Applicant is encouraged to identify those references that they believe are most pertinent to the current application.

Claim Objections

5. Claim 14 is objected to because of the following informalities: "to the gateway" should recite -- to a gateway-- Appropriate correction is required.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection

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is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

6. Claims 1- 21 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1 - 42 of U.S Patent No. 8,155, 298 (Pat 298) in view of Graves et al. (US 7,069,291) (“Graves”), and further in view of Examiner’s Official Notice. Claims 1 – 42 of Pat 298 disclose the limitations of claims 1- 21 of the currently pending application, except the call control criteria including a phone number for the user; the features including caller ID blocking; and the security measures including no direct access to the

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gateway, an additional security layer to prevent hacking, VoIP link degradation detection, automatic cutover to PSTN, and conditional call blocking.

However, Graves discloses a method for the purpose using call control criteria to route a communication between a calling and called party (Abstract), where the call control criteria includes the phone number of the user (call forwarding where calls directed to a user's number is redirected to another telephone number, column 9 lines 54 - 63).

Additionally, Examiner takes official notice that the provision of security measures and enhanced service features such as those listed above in the VoIP and the PSTN were well known in the art at the time of Applicant's invention to increase the efficiency, reliability, and profitability of both communications networks.

Therefore, it would have been obvious modify the teachings of claims 1 – 42 of Pat 298 with the teachings of Graves so that a phone number is used as call control criteria for the purpose of providing enhancing routing in from the calling to the called party.

Additionally, it would have been obvious to one ordinary skill in the art at the time of Applicant's invention to improve and update the method disclosed in the combination of claims 1 - 42 of US Pat 298 and Graves with the security measures and enhanced services listed above to increase the efficiency, reliability, and profitability of both communications networks.

7. Claims 1- 21 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1- 82 of U.S Patent No. 8,175,240 (Pat 240). Claims 1- 82 of Pat 240 disclose the limitations of claims 1- 21 of the currently pending application,

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currently pending application, except the call control criteria including a phone number for the user.

However, Graves discloses a method for the purpose using call control criteria to route a communication between a calling and called party (Abstract), where the call control criteria includes the phone number of the user (call forwarding where calls directed to a user's number is redirected to another telephone number, column 9 lines 54 - 63).

Therefore, it would have been obvious modify the teachings of claims 1 – 82 of US Pat 240 with the teachings of Graves so that a phone number is used as call control criteria for the purpose of providing enhancing routing in from the calling to the called party.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 1- 3, 6 – 10, 12, 18, 20, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Graves et al. (US 7,069,291) (“Graves”) in view of Chang et al. (US 5,958,016) (“Chang”), and further in view of Dunn et al. (US 6,118,780) (“Dunn”).

For claim 1, Graves discloses a method of using call control criteria to route a communication between a user and a called party with access to the public switched telephone network (PSTN) comprising: receiving at a control device (*switch*, Fig.9,15; column 8 lines 57 and 58) a signaling message indicating a communication request from the user (column 2 lines

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30 - 33; column 22 lines 64 column 23 line 10; using information in the communication request to retrieve call control criteria from a database (*knowledge base*, Fig.9, 40) (column 2 lines 33 - 40; column 8 lines 62 - column 9 line 5; column 23 lines 10 - 17, 27- 35); and using the communication request message combined with the call control criteria to route the communication to the called party via a class 4 switch (column 32 line 9) (column 9 lines 5 - 10; column 23 lines 32 - 34; column 24 lines 1 - 53). Yet, Graves fails to teach where the call control criteria has been derived from selections previously made by said user via a web server, wherein the user has access to voice over IP (VOIP) network.

However, Chang discloses a method for the purpose of providing web page access to control services provided in a communications network such as an advanced intelligent network (Abstract), wherein a subscriber selects services and/or modifies preexisting services using selections via a web interface (column 4 lines 45 - 48; column 20 lines 47 - column 21 lines 10; column 23 lines 55 - 64) wherein the service information can be formatted as web pages (column 20 lines 62 - 66).

Additionally, Dunn disclose a method for the purpose of controlling the activation and selection of voice and data transmission paths in a communication network including a public switched telephone network and a data network, e.g. the Internet for voice and/or data transmissions over either the voice or data networks, wherein an end user control of voice and data in the PSTN 20 and the data network 24 is initiated in a step 300 in which a user or subscriber uses standard office business systems to negotiate with the local telephone company for the bandwidth, level of service and voice and data paths authorized by the telephone company policies (Fig.3B, 300; column 4 lines 54 - 60).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the Graves with the teachings of Chang and Dunn so that the web pages used to provide call control criteria or service information disclosed in Graves (column 9 lines 1 - 3) can be modified by using selections provided by a user via a web interface and web server for the purpose of further enabling the ease and flexibility of modifying the web pages used to provide call control criteria information (Graves, column 2 lines 37 and 38) by allowing a user to access and modify the call control criteria information to be applied to both voice and data networks in the web pages from a general purpose computer without specially developed hardware or software interfaces (Chang, column 6 lines 35 – 37).

For claim 2, Graves further discloses where the communication comprises a call (Graves, column 23 lines 10 – 16).

For claim 3, Graves further discloses where the communication comprises a short message (Graves, column 9 lines 36 - 42).

For claim 5, Graves further discloses where the call control criteria includes the phone number of the user (Graves, call forwarding where calls directed to a user's number is redirected to another telephone number, column 9 lines 54 - 63).

For claim 6, Graves and Chang further disclose where the selections made by the user via a web server include the selection of a phone number (Graves, terminating call screening, column 11 line 39 - 49) (Chang, modifying VIP list for call blocking service, column 21 lines 39 - 49).

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For claim 7, Chang further discloses where the selections made by the user via a web server include the entering of a valid credit card number (Chang, column 24 lines 17 - 19).

For claim 8, Chang further discloses where the selections made by the user via a web server include the entering of personal information (Chang, validation information, column 23 lines 56 - 62).

For claim 9, Graves and Chang further disclose where the selections made by the user via a web server include the selections of features (Graves, column 9 lines 19 - 23) (Chang, column 22 lines 59 - 64; column 23 lines 55 - 64).

For claim 10, Graves further discloses where a feature includes selective call forwarding (Graves, column 11 lines 25 - 30).

For claim 12, Graves further discloses where the call control criteria include security measures (Graves, column 10 lines 53 - column 11 line 3).

For claim 18, Graves further discloses wherein the security measures include conditional call blocking (*terminating call screening*, column 11 lines 39 - 49).

For claim 20, Graves further discloses wherein the security measure include authentication of the calling party (Graves, column 10 lines 53 - column 11 lines 3).

For claim 21, Graves further discloses where the control device is of a distributed nature occupying multiple locations (Graves, *switch, switch proxy, service agent*, Fig.9, 15, 25, 30; column 8 lines 47 - 57).

9. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Graves et al. (US 7,069,291) ("Graves") in view of Chang et al. (US 5,958,016) ("Chang"), and further in view of

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Dunn et al. (US 6,118,780) (“Dunn”), and further in view of Friedes et al. (US 5,329,581) (“Friedes”).

For claim 4, the combination of Graves, Chang, and Dunn fails to teach where the communication request message is for a first call, and the routing of the communication constitutes a second call.

However, Friedes discloses a method for the purpose routing a call from a calling party to a called party (Abstract), wherein a switch creates a first call from a calling party to the switch and a second call from the switch to the called party and bridges each calls to connect the calling party to the called party (column 5 line 11 - column 6 lint 5).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant’s invention to apply the Friedes’ switch bridging technique to the call routing method disclosed above in the combination of Graves, Chang, and Dunn to realize the predictable results of the communication request being a first call and the routing of the communication constituting a second call, wherein the first call and second call are bridged to connect the calling party to the called party for the purpose of providing enhanced service the communications network, wherein the enhanced services include bridged call routing and monitoring (Graves, column 23 lines 32 – 35).

10. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Graves et al. (US 7,069,291) (“Graves”) in view of Chang et al. (US 5,958,016) (“Chang”), and further in view of Dunn et al. (US 6, 118,780) (“Dunn”), and further in view of Relyea et al. (US 6,185,285) (“Relyea”).

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For claim 11, the combination of Graves, Chang, and Dunn fails to teach where a feature includes caller ID blocking.

However, Relyea discloses a method for the purpose of the providing a user with information about and control over the communications service feature at a user terminal (Abstract), wherein a feature that can be selected by a user via a home page displayed on the user terminal includes caller ID blocking (Fig.3, 368; column 5 lines 17 - 22, 26 - 31, 42 - 56).

Therefore, it would have been obvious to modify the combination of Graves, Chang, and Dunn with the teachings of Relyea so that the features selected by the user disclosed above in the combination of Graves, Chang, and Dunn further comprise caller ID blocking for the purpose of providing an enhanced array of communications services to the user to increase user satisfaction with the communication network (Relyea, column 1 lines 16 - 20).

11. Claims 13 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Graves et al. (US 7,069,291) ("Graves") in view of Chang et al. (US 5,958,016) ("Chang"), and further in view of Dunn et al. (US 6,118,780) ("Dunn"), and further in view of Maher, III et al. (US 7,272,115) ("Maher").

For claim 13, the combination of Graves, Chang, and Dunn fails to teach where security measures include the prevention of denial of service attacks.

However, Maher discloses a method for the purpose of enforcing service level agreements in VoIP networks (Abstract; column 1 lines 23 - 40), wherein security measures provided by a network device in a VoIP network include the prevention of denial of service attacks (column 4 lines 63 - column 5 line 17; column 6 lines 53 - 63).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the combination of Graves, Chang, and Dunn with the teachings of Maher so that the call control criteria include security measures that are further associated with subscribed services in the VoIP network as disclosed above in the combination of Graves, Chang, and Dunn, wherein these VoIP related security measures comprise the prevention of denial of service attacks for the purpose of enforcing the VoIP service level agreements negotiated between the provider and the subscriber as disclosed above in the combination of Graves, Chang, and Dunn to ensure that the VoIP services are available, reliable, and responsive (Maher, column 1 lines 27 - 34).

For claim 15, the combination of Graves, Chang, and Dunn fails to teach where security measures include an additional security layer to prevent hacking.

However, Maher discloses a method for the purpose of enforcing service level agreements in VoIP networks (Abstract; column 1 lines 23 – 40), wherein security measures provided by a network device in a VoIP network include the prevention of hacking (column 4 lines 63 - column 5 line 17; column 6 lines 53 - 63).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the combination of Graves, Chang, and Dunn with the teachings of Maher so that the call control criteria include security measures that are further associated with subscribed services in the VoIP network as disclosed above in the combination of Graves, Chang, and Dunn, wherein these VoIP related security measures comprise an additional layer of security to prevent hacking for the purpose of enforcing the VoIP service level agreements

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negotiated between the provider and the subscriber as disclosed above in the combination of Graves, Chang, and Dunn to ensure that the VoIP services are available, reliable, and responsive (Maher, column 1 lines 27 - 34).

12. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Graves et al. (US 7,069,291) (“Graves”) in view of Chang et al. (US 5,958,016) (“Chang”), and further in view of Dunn et al. (US 6,118,780) (“Dunn”), and further in view of Yasrebi (US 5,596,579).

For claim 14, the combination of Graves, Chang, and Dunn fails to teach where the security measures include no direct access to the gateway.

However, Yasrebi discloses a method for the purpose of linking client workstations on a LAN to a switched network using an interface mechanism (Abstract), wherein the interface mechanism isolates the workstations from direct access to the gateway ports (column 3 lines 24 - 36, 46 - 58).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the combination of Graves, Chang, and Dunn with the teachings of Yasrebi so that the call control criteria include security measures that are further associated with subscribed services in the VoIP network as disclosed above in the combination of Graves, Chang, and Dunn, wherein these VoIP related security measures comprise no direct access to the gateway by using an interface mechanism to isolate the user terminal disclosed above in the combination of Graves, Chang, and Dunn for the purpose of regulating network attachments in the gateway to impose frequency limit requirements for call activities (Yasrebi, column 3 lines 51 - 55).

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13. Claims 16 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Graves et al. (US 7,069,291) (“Graves”) in view of Chang et al. (US 5,958,016) (“Chang”), and further in view of Dunn et al. (US 6,118,780) (“Dunn”), and further in view of McNiff et al. (US 6,785,229) (“McNiff”).

For claim 16, the combination of Graves, Chang, and Dunn fails to teach wherein the security measures include VoIP link degradation detection.

However, McNiff discloses a hybrid switch coupled to a packet network and a TDM network for the purpose of establishing a communication session using one of these networks switching the communication session to the other one of these networks in response to stored metrics, user request, or other criteria, wherein the hybrid switch automatically detects VoIP link degradation (column 5 lines 20 – 55).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant’s invention to modify the combination of Graves, Chang, and Dunn with the teachings of McNiff so that the call control criteria include security measures that are further associated with subscribed services in the VoIP network as disclosed above in the combination of Graves, Chang, and Dunn, wherein these VoIP related security measures comprise VoIP link degradation detection for the purpose of enforcing the VoIP service level agreements negotiated between the provider and the subscriber as disclosed above in the combination of Graves, Chang, and Dunn to ensure that the VoIP services are available, reliable, and responsive (McNiff, column 2 lines 11 – 24).

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For claim 17, the combination of Graves, Chang, and Dunn fails to teach wherein the security measures include automatic cutover to the PSTN.

However, McNiff discloses a hybrid switch coupled to a packet network and a TDM network for the purpose of establishing a communication session using one of these networks switching the communication session to the other one of these networks in response to stored metrics, user request, or other criteria, wherein the hybrid switch automatically detects VoIP link degradation and switches to the TDM (column 5 lines 20 – 55).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the combination of Graves, Chang, and Dunn with the teachings of McNiff so that the call control criteria include security measures that are further associated with subscribed services in the VoIP network as disclosed above in the combination of Graves, Chang, and Dunn, wherein these VoIP related security measures comprise automatic switch or cutover to the PSTN for the purpose of enforcing the VoIP service level agreements negotiated between the provider and the subscriber as disclosed above in the combination of Graves, Chang, and Dunn to ensure that the VoIP services are available, reliable, and responsive (McNiff, column 2 lines 11 – 24).

14. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Graves et al. (US 7,069,291) ("Graves") in view of Chang et al. (US 5,958,016) ("Chang"), and further in view of Dunn et al. (US 6,118,780) ("Dunn"), and further in view of Baniak et al. (US 2004/0151294) ("Baniak").

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For claim 21, the combination of Graves, Chang, and Dunn fails to teach wherein the security measures include call logging.

However, Baniak discloses a method for the purpose of accessing and maintaining profile data of user subscribed telephony services, wherein one of the telephony services provided is call logging ([0038]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the combination of Graves, Chang, and Dunn with the teachings of Baniak so that the call control criteria include security measures that are further associated with subscribed services in a PSTN/AIN network as disclosed above in the combination of Graves, Chang, and Dunn, wherein these PSTN/AIN related security measures comprise call logging for the purpose of increasing the capabilities of the existing telephone network architecture and meeting needs of telephony customers to have a record of calls originating/terminating to the telephony customers for auditing purposes (Baniak, [0033]).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SONIA GAY whose telephone number is (571)270-1951. The examiner can normally be reached on Monday to Thursday from 7:30 AM to 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duc Nguyen can be reached on (571) 272-7503. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sonia Gay/
Examiner, Art Unit 2651
December 17, 2012

Notice of References Cited	Application/Control No. 13/358,353	Applicant(s)/Patent Under Reexamination WOOD ET AL.	
	Examiner SONIA GAY	Art Unit 2651	Page 1 of 1

U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification	
*	A	US-7,069,291	06-2006	Graves et al.	709/201
*	B	US-5,958,016	09-1999	Chang et al.	709/229
*	C	US-6,118,780	09-2000	Dunn et al.	370/355
*	D	US-7,272,115	09-2007	Maher et al.	370/253
*	E	US-5,596,579	01-1997	Yasrebi, Mehrad	719/328
*	F	US-6,785,229	08-2004	McNiff et al.	370/230
*	G	US-2004/0151294	08-2004	Baniak et al.	379/211.01
*	H	US-6,185,285	02-2001	Relyea et al.	379/204.01
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			


FOREIGN PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N				
	O				
	P				
	Q				
	R				
	S				
	T				

NON-PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)				
	U				
	V				
	W				
	X				

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Search Notes 	Application/Control No. 13358353	Applicant(s)/Patent Under Reexamination WOOD ET AL.
	Examiner SONIA GAY	Art Unit 2651

SEARCHED			
Class	Subclass	Date	Examiner
379	211.01	12/17/2012	S.Gay

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor Search	12/17/2012	S.Gay
Text Search	12/17/2012	S.Gay

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

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U.S. DEPT. OF COMMERCE Patent and Trademark Office INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	Atty. Docket No.: 357323-990127	Serial No.: 13/358,353
	Applicants: WOOD, Samuel F. et al.	
	Filing Date: January 25, 2012	Group Art Unit: 2614 2651

U.S. PATENT DOCUMENTS

Examiners Initials	Patent Number/ Publication Number	Date	Name	Class	Subclass	Filing Date
	5,396,542	07 Mar 1995	Alger			
	5,907,811	25 May 1999	Foladare			
	6,243,373	05 Jun 2001	Turock			
	6,438,124	20 Aug 2002	Wilkes			
	6,498,797	24 Dec 2002	Anerousis			
	6,577,718	03 Dec 1985	Goubaud			
	6,775,264	10 Aug 2004	Kurganov			
	6,775,284	10 Aug 2004	Calvignac			
	6,807,257	19 Oct 2004	Kurganov			
	6,816,582	09 Nov 2004	Levine			
	6,937,713	30 Aug 2005	Kung			
	7,184,527	27 Feb 2007	Lin			
	7,233,658	19 Jun 2007	Koser			

FOREIGN PATENT DOCUMENTS

Document number	Date	Country	Class	Sub-class	Translation

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner: /Sonia Gay/	Date Considered: 12/17/2012
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP '609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	

FORM PTO-1449 LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. TLM-103C1CON2	SERIAL NO. 11/428,822
	APPLICANT: Samuel F. WOOD, et al.	
	FILING DATE: July 5, 2006	GROUP: 2651 2614

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE	
	2001/0022784A1	09-2001	Menon et al.	-----	-----	-----	
	2001/0030950A1	10-2001	Chen et al.	-----	-----	-----	
	2003/0026403A1	11-2007	Clapper	-----	-----	-----	
	2003/0040325A1	02-2003	Clark	-----	-----	-----	
	2003/0095650A1	05-2003	Mize	-----	-----	-----	
	2003/0133553A1	07-2003	Khakoo et al.	-----	-----	-----	
	2003/0156693A1	08-2003	Goldman	-----	-----	-----	
	2003/0194078A1	10-2003	Wood et al.	-----	-----	-----	
	2004/0029568A1	02-2004	DeLuca et al.	-----	-----	-----	
	2005/0041526A1	02-2005	Esmersoy et al.	-----	-----	-----	
	2005/0141500A1	06-2005	Bhandari et al.	-----	-----	-----	
	2005/0169445A1	08-2005	Harris	-----	-----	-----	
	2005/0207557A1	09-2005	Dolan et al.	-----	-----	-----	
	4,313,035	01-1982	Jordan et al.	-----	-----	-----	
	4,348,554	09-1982	Asmuth	-----	-----	-----	
	4,611,094	09-1986	Asmuth et al.	-----	-----	-----	
	4,611,096	09-1986	Asmuth et al.	-----	-----	-----	
	4,953,198	08-1990	Daly et al.	-----	-----	-----	
	4,973,837	11-1990	Bradbeer	-----	-----	-----	
	5,297,191	03-1994	Gerszberg	-----	-----	-----	
	5,311,582	05-1994	Davenport et al.	-----	-----	-----	
	5,428,663	06-1995	Grimes et al.	-----	-----	-----	

EXAMINER: /Sonia Gay/	DATE CONSIDERED: 12/17/2012
EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant	

FORM PTO-1449 LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. TLM-103C1CON2	SERIAL NO. 11/428,822
	APPLICANT: Samuel F. WOOD, et al.	
	FILING DATE: July 5, 2006	GROUP: 2614 2651

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	5,448,623	09-1995	Wiedeman et al.	-----	-----	-----
	5,455,853	10-1995	Cebulka et al.	-----	-----	-----
	5,471,616	11-1995	Johnson et al.	-----	-----	-----
	5,495,567	02-1996	Iizawa et al.	-----	-----	-----
	5,497,339	03-1996	Bernard	-----	-----	-----
	5,557,658	09-1996	Gregorek et al.	-----	-----	-----
	5,563,937	10-1996	Bruno et al.	-----	-----	-----
	5,566,236	10-1996	McLampy et al.	-----	-----	-----
	5,606,594	02-1997	Register et al.	-----	-----	-----
	5,628,004	05-1997	Gormley et al.	-----	-----	-----
	5,646,945	07-1997	Bergler	-----	-----	-----
	5,727,057	03-1998	Emery et al.	-----	-----	-----
	5,727,057	03-1998	Emery et al.	-----	-----	-----
	5,732,074	03-1998	Spaur et al.	-----	-----	-----
	5,732,216	03-1998	Logan et al.	-----	-----	-----
	5,737,533	04-1998	De Hond	-----	-----	-----
	5,742,905	04-1998	Pepe et al.	-----	-----	-----
	5,802,160	09-1998	Kugell et al.	-----	-----	-----
	5,806,057	09-1998	Gormley et al.	-----	-----	-----
	5,838,665	11-1998	Kahn et al.	-----	-----	-----
	5,850,433	12-1998	Rondeau	-----	-----	-----
	5,859,972	01-1999	Subramaniam et al.	-----	-----	-----

EXAMINER: /Sonia Gay/	DATE CONSIDERED: 12/17/2012
EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant	

FORM PTO-1449 LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. TLM-103CICON2	SERIAL NO. 11/428,822
	APPLICANT: Samuel F. WOOD, et al.	
	FILING DATE: July 5, 2006	GROUP: 2614 2651

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE	
	5,875,405	02-1999	Honda	-----	-----	-----	
	5,878,113	03-1999	Bhusari	-----	-----	-----	
	5,878,418	03-1999	Polcyn et al.	-----	-----	-----	
	5,894,473	04-1999	Dent	-----	-----	-----	
	5,894,595	04-1999	Foladare et al.	-----	-----	-----	
	5,913,029	06-1999	Shostak	-----	-----	-----	
	5,915,008	06-1999	Dulman	-----	-----	-----	
	5,918,172	06-1999	Saunders et al.	-----	-----	-----	
	5,930,700	07-1999	Pepper et al.	-----	-----	-----	
	5,933,778	08-1999	Buhrmann et al.	-----	-----	-----	
	5,938,757	08-1999	Bertsch	-----	-----	-----	
	5,953,392	09-1999	Rhie et al.	-----	-----	-----	
	5,958,016	09-1999	Chang et al.	-----	-----	-----	
	5,960,340	09-1999	Fuentes	-----	-----	-----	
	5,970,059	10-1999	Ahopelto et al.	-----	-----	-----	
	5,974,449	10-1999	Chang et al.	-----	-----	-----	
	5,982,866	11-1999	Kowalski	-----	-----	-----	
	5,991,394	11-1999	Dezonne et al.	-----	-----	-----	
	6,006,272	12-1999	Aravamudan et al.	-----	-----	-----	
	6,012,088	01-2000	Li et al.	-----	-----	-----	
	6,014,437	01-2000	Acker et al.	-----	-----	-----	
	6,020,916	02-2000	Gerszberg et al.	-----	-----	-----	

EXAMINER: /Sonia Gay/	DATE CONSIDERED: 12/17/2012
EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant	

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	APPLICANT: Samuel F. WOOD, et al.	
	FILING DATE: July 5, 2006	GROUP: 2614 2651

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
		6,028,917	02-2000	Creamer et al.	-----	-----	-----
		6,031,836	02-2000	Haserodt	-----	-----	-----
		6,031,904	02-2000	An et al.	-----	-----	-----
		6,041,325	03-2000	Shah et al.	-----	-----	-----
		6,044,403	03-2000	Gerszberg et al.	-----	-----	-----
		6,075,992	06-2000	Moon et al.	-----	-----	-----
		6,078,581	06-2000	Shtivelman et al.	-----	-----	-----
		6,084,584	07-2000	Nahi et al.	-----	-----	-----
		6,094,478	07-2000	Shepherd et al.	-----	-----	-----
		6,104,800	08-2000	Benson	-----	-----	-----
		6,141,341	10-2000	Jones et al.	-----	-----	-----
		6,161,134	12-2000	Wang et al.	-----	-----	-----
		6,163,598	12-2000	Moore	-----	-----	-----
		6,167,040	12-2000	Haeggstrom	-----	-----	-----
		6,175,860	01-2001	Gaucher	-----	-----	-----
		6,188,688	02-2001	Buskirk, Jr.	-----	-----	-----
		6,212,261	04-2001	Meubus et al.	-----	-----	-----
		6,216,158	04-2001	Luo et al.	-----	-----	-----
		6,240,097	05-2001	Wesloek et al.	-----	-----	-----
		6,259,692	07-2001	Shtivelman et al.	-----	-----	-----
		6,262,978	07-2001	Bruno et al.	-----	-----	-----
		6,266,539	07-2001	Pardo	-----	-----	-----

EXAMINER: /Sonia Gay/	DATE CONSIDERED: 12/17/2012
EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant	

FORM PTO-1449 LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. TLM-103CICON2	SERIAL NO. 11/428,822
	APPLICANT: Samuel F. WOOD, et al.	
	FILING DATE: July 5, 2006	GROUP: 2614 2651

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE	
	6,301,609	10-2001	Aravamudan et al.	-----	-----	-----	
	6,308,201	10-2001	Pivowar et al.	-----	-----	-----	
	6,334,126	12-2001	Nagatomo et al.	-----	-----	-----	
	6,337,858	01-2002	Petty et al.	-----	-----	-----	
	6,359,892	03-2002	Szlam	-----	-----	-----	
	6,359,892	03-2002	Szlam	-----	-----	-----	
	6,359,892	03-2002	Szlam et al.	-----	-----	-----	
	6,381,323	04-2002	Schwab et al.	-----	-----	-----	
	6,385,308	05-2002	Cohen et al.	-----	-----	-----	
	6,404,764	06-2002	Jones et al.	-----	-----	-----	
	6,411,615	06-2002	DeGolia et al.	-----	-----	-----	
	6,411,965	06-2002	Klug	-----	-----	-----	
	6,414,962	07-2002	Hall et al.	-----	-----	-----	
	6,418,198	07-2002	Brablec et al.	-----	-----	-----	
	6,421,235	07-2002	Ditzik	-----	-----	-----	
	6,445,694	09-2002	Swartz	-----	-----	-----	
	6,445,697	09-2002	Fenton	-----	-----	-----	
	6,446,127	09-2002	Shuster et al.	-----	-----	-----	
	6,448,978	09-2002	Salvador et al.	-----	-----	-----	
	6,456,594	09-2002	Kaplan et al.	-----	-----	-----	
	6,456,601	09-2002	Kozdon et al.	-----	-----	-----	
	6,459,780	10-2002	Wurster et al.	-----	-----	-----	

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	APPLICANT: Samuel F. WOOD, et al.	
	FILING DATE: July 5, 2006	GROUP: 2614 2651

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE	
	6,477,565	11-2002	Daswani et al.	-----	-----	-----	
	6,477,576	11-2002	Angwin et al.	-----	-----	-----	
	6,483,902	11-2002	Stewart et al.	-----	-----	-----	
	6,493,338	12-2002	Preston et al.	-----	-----	-----	
	6,496,477	12-2002	Perkins et al.	-----	-----	-----	
	6,526,462	02-2003	Elabd	-----	-----	-----	
	6,539,359	03-2003	Ladd et al.	-----	-----	-----	
	6,577,622	06-2003	Shuster et al.	-----	-----	-----	
	6,584,490	06-2003	Shuster et al.	-----	-----	-----	
	6,650,901	11-2003	Shuster et al.	-----	-----	-----	
	6,681,252	01-2004	Shuster et al.	-----	-----	-----	
	6,697,461	02-2004	Middleswarth et al.	-----	-----	-----	
	6,731,630	05-2004	Shuster et al.	-----	-----	-----	
	6,741,586	05-2004	Shuster et al.	-----	-----	-----	
	6,744,759	06-2004	Sidhu	-----	-----	-----	
	6,785,266	08-2004	Swartz	-----	-----	-----	
	6,788,775	09-2004	Simpson	-----	-----	-----	
	6,795,429	09-2004	Shuster et al.	-----	-----	-----	
	6,804,224	10-2004	Shuster et al.	-----	-----	-----	
	6,822,957	11-2004	Shuster et al.	-----	-----	-----	
	6,853,714	02-2005	Liljestrand et al.	-----	-----	-----	
	6,856,616	02-2005	Shuster et al.	-----	-----	-----	

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	APPLICANT: Samuel F. WOOD, et al.	
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE	
	6,857,021	02-2005	Shuster et al.	-----	-----	-----	
	6,857,072	02-2005	Shuster et al.	-----	-----	-----	
	6,870,830	03-2005	Shuster et al.	-----	-----	-----	
	6,914,897	07-2005	Shuster et al.	-----	-----	-----	
	6,937,699	08-2005	Shuster et al.	-----	-----	-----	
	6,956,941	10-2005	Duncan et al.	-----	-----	-----	

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATI YE	NO
	DE19813179	09-1999	DE	-----	-----	X	
	EP0578374	01-1994	EP	-----	-----		
	EP0704788	04-1996	EP	-----	-----		
	EP0738093	10-1996	EP	-----	-----		
	EP0858202	08-1998	EP	-----	-----		
	EP0869688	10-1998	EP	-----	-----		
	EP0881848	12-1998	EP	-----	-----		
	EP0898431	02-1999	EP	-----	-----		
	EP0918423	10-1998	EP	-----	-----		
	WO/0184859	11-2001	WO	-----	-----		
	WO01/024496	04-2001	WO	-----	-----		
	WO01/024498	04-2001	WO	-----	-----		
	WO01/024500	04-2001	WO	-----	-----		
	WO01/024501	04-2001	WO	-----	-----		

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FOREIGN PATENT DOCUMENTS								
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	WO01/024502	04-2001	WO	-----	-----			
	WO01/024503	04-2001	WO	-----	-----			
	WO01/05078	01-2001	WO	-----	-----			
	WO94/05111	03-1994	WO	-----	-----			
	WO95/34985	12-1995	WO	-----	-----			
	WO97/31492	08-1997	WO	-----	-----			
	WO97/33421	09-1997	WO	-----	-----			
	WO97/44943	11-1997	WO	-----	-----			
	WO98/00988	01-1998	WO	-----	-----			
	WO98/04065	01-1998	WO	-----	-----			
	WO98/10538	03-1998	WO	-----	-----			
	WO98/16051	04-1998	WO	-----	-----			
	WO98/21911	05-1998	WO	-----	-----			
	WO98/30008	07-1998	WO	-----	-----			
	WO98/37665	08-1998	WO	-----	-----			
	WO99/12365	03-1999	WO	-----	-----			
	WO99/19988	04-1999	WO	-----	-----			
	WO99/20059	04-1999	WO	-----	-----			
	WO99/35802	07-1999	WO	-----	-----			
	WO99/45687	09-1999	WO	-----	-----			

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	FILING DATE: July 5, 2006	GROUP: 2614 2651

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
EXAMINER INITIAL		
	1	RFC 3298 Service in the PSTN, August 2002
	2	Implementing Automatic Location Update for Follow-Me database using VoIP and Bluetooth Technologies, IEEE Transaction on computers, Vol. 51, No. 10, October 2002
	3	New services demand integration, Electronic Engineering Times, Aug. 28, 2000, Iss. 1128; pg. 110
	4	Natural Microsystems, M2 Presswire. Coventry: Aug, 18, 2000
	5	This pipe dream will come true: Voice Over Internet Protocol (VoIP) technology will make the phone Box something that really talks, Businessline, Chennai: Apr 17, 2002
	6	Using Optimization to Achieve Efficient Quality of Service in Voice over IP Networks, IEEE 2003
	7	Broadsoft literature Broadworks overview, Copyright date 2002
	8	BroadSoft introduces industry's first complete service delivery and creation product suite for enhanced telephony services Broadworks, ATM Newsletter: Boston: March 2000, vol. 9, Iss. 3, pg 13
	9	BroadSoft unveils advanced architecture for the rapid and cost effective delivery of enhanced communications services, Website, August 25, 1999, Press releases, 3 pages.
	10	ADC Telecommunications; SS7 New Net SS7 Tutorial; Copyright 1999.
	11	Mary Carmichael, "Calls That Follow you Anywhere" Newsweek, April 28, 2003, page 43.
	12	European Search Report, 3 pages, from European Application No. 04252483.5 (EP Patent No. 1473947B1).
	13	U.S. patent application Ser. No. 09/406,322, Schuster et al., filed Sep. 27, 1999
	14	U.S. patent application Ser. No. 09/515,798, Schuster et al., filed Feb. 29, 2000

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
		4,310,726	01-12-1982	Asmuth	179	18	02-04-1980
		5,673,262	09-30-1997	Shimizu	370	395	11-07-1995
		5,848,140	12-08-1998	Foladare et al.	379	201	12-29-1995
		5,991,310	07-09-1997	Katko	370	522	07-09-1997
		2007/0041526	02-2007	Hill et al.	379	88.21	10-27-2006

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATI YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
EXAMINER INITIAL		
	1	Dowden, Douglas C., et al., "The Future of Network-Provided Communications Services," <i>Bell Labs Technical Journal</i> , July-September 2000, pp. 3-10
	2	Foard, C.F., "Teaming Switches and Computers for Customer Applications," <i>AT&T Technology</i> , 1991; 6, 4; Research Library, pp. 32-38
	3	Foster, Robin Harris, "Computer-Telephone Integration Goes Global," <i>AT&T Technology</i> , Autumn 1995; 10, 3; Research Library, pp. 18-22
	4	Kozik, Jack, et al., "On Opening PSTN to Enhanced Voice/Data Services - The PINT Protocol Solution," <i>Bell Labs Technical Journal</i> , July-September 2000, pp. 153-165
	5	Lui, Anthony Y., et al., "The Enhanced Service Manager: A Service Management System for Next-Generation Networks," <i>Bell Labs Technical Journal</i> , July-September 2000, pp. 130-144
	6	Reisfield, E.S., "Customers Take Control of the AT&T Network," <i>AT&T Technology</i> , 1991; 6, 1; Research Library, pp. 44-48
	7	Sijben, Paul G., et al., "Bridging the Gap to IP Telephony," <i>Bell Labs Technical Journal</i> , October-December 1998, pp. 192-207

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE	
	2004/0240657 A1	12-02-2004	Camarillo	379	221.02	-----	
	2004/0264673 A1	12-30-2004	Novack	379	221.11	-----	
	5,469,500	11-21-1995	Satter et al.	379	201	-----	
	6,327,258	12-04-2001	Deschaine et al.	370	356	-----	
	6,643,282	11-04-2003	Christie	370	352	-----	
	7,123,708	10-17-2006	Gavillet	379	219	-----	
	7,242,759	07-10-2007	Sanchez et al.	379	219	-----	
	7,436,851	10-14-2008	Chambers et al.	370	325	-----	

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
						YE	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
EXAMINER INITIAL		

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:)	Customer No.:	49,637
)		
Samuel F. WOOD, et al.	)	Confirmation No.:	4568
)		
Serial No.:	)	Group Art Unit:	2614
11/428,825)		
	)	Examiner:	Al Anbaidi, Rasha S.
Filed:)		
July 5, 2006	)	Docket No.:	TLM-103.CICON3
)		
For: TANDEM ACCESS CONTROLLER)		
WITHIN THE PUBLIC SWITCHED)		
TELEPHONE NETWORK)		

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. 1.97(b)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with the duty of disclosure under 37 CFR § 1.56, 37 CFR §§ 1.97, and 1.98, Applicants bring the following documents, of possible interest to the subject matter of this application, to the attention of the Examiner. Each of these documents is listed on the attached form PTO-1449. Applicants are providing copies of the listed documents, except for U.S. patents and U.S. patent publication applications. In the event the Examiner would like copies of the U.S. patents and published applications as well, the Examiner is requested to advise the undersigned. Applicants respectfully request the Examiner to consider and make these documents of record with respect to this application. In addition, for the Examiner's convenience, Applicants are providing below comments on select references. The Examiner is requested to make an independent determination on the relevance of the documents.

Page 1 of 6

1. RFC 3298 Service in the PSTN:

This document describes protocols for use in an internet or other intelligent network (PSTN/IN). The protocols that are described are for use to optimize the network. This document also discloses "features" such as "call forwarding" that can be applied within a network, however, with modifications to the existing networks and limited routing only within a local geographic area. Moreover, this document does not disclose web-based access by subscribers to request features, nor first call and second functionalities.

2. Implementing Automatic Location Update for Follow-Me Database Using VoIP and Bluetooth Technologies

This document discloses a particular method of using databases in a VoIP network to enable a user to request call features such as "follow-me" using VoIP and Bluetooth technologies. Again, this document describes "features," but via a method that requires modifications to the existing networks and limited routing only within a local geographic area. Again, this document does not disclose web-based access by subscribers to request features, nor first call and second functionalities.

3. New Services Demand Integration

This document recognizes that networks, such as the public switched telephone network (PSTN) and the internet (packet-based) networks are fast converging and that the new emerging networks will require new services to facilitate user interfaces. It should be noted that the document publication is after Applicants' priority date (parent patent no. 6,574,328, filed on May 2000). This document is of background interest only and does not address application of "features," via web access or otherwise, nor first call and second functionalities.

4. Natural Microsystems

This document describes the SS7 software product that natural Microsystems introduced to the market. SS7 is a standard protocol used in the PSTN for signaling call management within the network. SS7 was widely known and used by carriers in the PSTN to perform circuit switching operations. Applicants' parent patent no. 6,574,328, filed on May 2000, describes the SS7 protocol.

Application No.: 11/428,825

The document is of background interest only and does not address application of "features," via web access or otherwise, nor first call and second functionalities.

5. Voice Over Internet Protocol (VoIP) Technology will Make the Phone Box Something That Really Talks

This document describes the advantages of VoIP and VoIP telephones that will make new technologies available to telephone users and the advantages of VoIP. The document is of background interest only and does not address application of "features," via web access or otherwise, nor first call and second functionalities.

6. Using Optimization to Achieve Efficient Quality of Service in Voice Over IP Networks

This document recognizes the need for improved quality service in VoIP networks. As recognized in Applicants' parent disclosure, VoIP's quality of service ("QoS") was less than the quality of the PSTN networks. The document is of background interest only and does not address application of "features," via web access or otherwise, nor first call and second functionalities.

7. Broadsoft Literature Broadworks Overview

This document describes Broadworks, a product that consists of software modules, which may be integrated into a hardware platform such as the Sun Solaris Network Platform for use at call centers and other such large enterprises. Broadworks discloses a system for adding "call features" to an existing Class 5¹ and packet networks. Broadworks discloses a set of tools that can be used to

¹ Dictionary definitions, "Newton's Telecom Dictionary," 15th Edition, February 1999, ISBN Number 1-57820-001-8

Class 4 Office

The fourth level in AT&T's long distance toll switching hierarchy -- the major switching center to which toll calls from Class 5 offices are sent. In U.S. common carrier telephony service, a toll center designated "Class 4C" is an office where assistance in completing incoming calls is provided in addition to other traffic. A toll center designated "Class 4F" is an office where operators handle only outbound calls, or where switching is performed without operator assistance.

Class 5 Office

An end office. Your local central office. The lowest level in the hierarchy of local and long distance switching which AT&T set up when it was "The Bell System." A class 5 office is a local Central Office that serves as a network entry point for station loops and certain special-service lines. Also called an End Office. Classes 1, 2, 3, and 4 are toll offices in the telephone network.

See also, Engineering and Operations in the Bell system, Second edition, 1977,1983, Bell telephone Laboratories.

Application No.: 11/428,825

replace the existing Class 5 central office switches. This document discloses a web-based interface to provide users access, and "call features," but proposes an implementation (via replacement of the existing edge switch) and therefore, does not accommodate the existing network infrastructure. Moreover, the features are limited to a local geographic area because of the implementation via the edge switch and there are no first call and second call functionalities. It should be noted that this document antedates Applicants' parent patent no. 6,574,328, which has a priority date of May 2000.

8. BroadSoft Introduces Industry's First Complete Service Delivery and Creation Product Suite for Enhanced Telephony Services Broadworks

This document discloses a system for integrating services that are web-enabled and offer specific features such as group directories, call forwarding, option configurations, in to the PSTN and packet (VoIP) networks. The system disclosed is web-enabled and offers specific features such as group directories, call forwarding, option configuration, messaging, and auto attendant services. However, these features are implemented in a different way, by requiring replacement of the existing edge switch with a Broadsoft switch (unlike Applicants' implementation, which works with the existing edge switch). Again, the features are limited to a local geographic area and there are no first call and second call functionalities.

9. Broadsoft Unveils Advanced Architecture for the Rapid and Cost Effective Delivery of Enhanced Communications Services

This article discloses a set of software tools for building a processing platform directed to a VoIP implementation. This document discloses a system for integrating services for packet (VoIP) networks. The system disclosed is web enabled and offers features such as group directories, call forwarding, option configuration, messaging, and auto attendant services. However, these features are implemented in a different way, by requiring replacement of the existing edge switch with a Broadsoft switch (unlike Applicants' implementation, which works with the existing edge switch). Again, the features are limited to a local geographic area and there are no first call and second call functionalities.

e.g. Section 4 Network and Systems, Network Structures and Planning,
also See index under Electronic Switching system(s)

Application No.: 11/428,825

10. U.S. Patent No. 6853714 to Liljestrand

This patent is directed to an apparatus and method for enhanced telecommunication services. This patent discloses another VoIP approach to changing the network on a large scale. It proposes an upgrade to the existing carriers' equipment and network architecture. The patent merely mentions the possibility of web access, but does not disclose how to accomplish it, and does not disclose first call and second call functionalities.

11. U.S. Patent No. 4,348,554, U.S. Patent No. 4,611,094 & U.S. Patent No. 4,611,096 to Asmuth

The Asmuth patents disclose a system and method to upgrade the architecture and infrastructure of the public switched network (PSTN) to enable the system to direct telephone calls to a selected group of customers with decisions controlled by the carrier. These patents also do not address web access application of features by subscribers, nor application of features in the entire fabric of networks, or first call and second call functionalities.

Finally, Applicants bring their related patents and applications to the Examiner's attention.

Patent or Application Number	Title	Filed	Docket Number
6529596	Web-Based Control of Telephone	5/4/00	TLM-101
6532288	Tandem Access Control Processor Connected to the Public Switched Telephone Network for Controlling Features	5/4/00	TLM-102
6574328	Telephone Call Control System for the Public Switched Telephone Network	5/4/00	TLM-103

Application No.: 11/428,825

Patent or Application Number	Title	Filed	Docket Number
7324635	Branch Calling and Caller ID Based Call Routing Telephone Features	4/30/03	TLM-103C1
7587036	Tandem Access Controller Within the Public Switched Telephone Network	7/5/06	TLM-103C1CON
11/428,822	Tandem Access Controller Within the Public Switched Telephone Network	10/26/06	TLM-103C1CON2
11/948,965	Branch Calling and Caller ID Based Call Routing and Telephone Features	3/27/08	TLM-103C1DIV

This Supplemental Information Disclosure Statement is timely submitted under 37 CFR § 1.97(b)(3), that is, before mailing of a first office action on the merits. Thus, no petition or fee is required at this time. If the U.S. Patent Office determines that a fee is necessary, this submission should be considered a petition, and the U.S. Patent Office is hereby authorized to charge any fee necessary to Deposit Account No. 50-3102 of Berry & Associates P.C.

Respectfully submitted,

Dated: February 17, 2010

By: /Reena Kuyper/
Reena Kuyper
Registration No. 33,830

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STU

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Applicant(s): Samuel F. Wood, Jerry A. Klein, Margaret Susan Asprey
 Assignee: Telemaze LLC
 Title: Tandem Access Controller Within the Public Switched Telephone Network
 Serial No.: 11/428,822 Filing Date: July 5, 2006
 Examiner: Not yet known Group Art Unit: 2614
 Docket No.: TEL-M-8801-1P-1C

San Jose, California
July 17, 2006

Mail Stop Amendment
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR § 1.97(b)**

Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the documents listed on the accompanying form PTO/SB/08A are called to the attention of the Examiner for the above patent application. Copies of the References are not included because they were cited in the parent application no. 10/426,279, filing date April 30, 2003.

1. A very large quantity of prior art is cited in the PTO/SB/08A form (formerly PTO 1449) because the present invention is related to the invention in U.S. Patent 6,614,781 to Elliot, and the identified prior art is copied from the "References Cited" section of that patent. There is no other reason for why the Applicants believe the identified art is material to the present claims. Only a few of the prior art documents are discussed below.

2. Various prior art documents describe systems in which telephone features are only applied once a call reaches the called party's central office. In contrast, Applicants' claims specify that the telephone features are applied before the call reaches the terminating central office. This provides various important advantages, discussed in the application. Other distinguishing aspects of the claims also exist.


PATENT LAW
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SAN JOSE, CA 95134
(408) 342-0480
FAX (408) 342-0481

3. U.S. Patent 6,614,781 to Elliot discloses a method of implementing a telephone feature that requires a change, modification, or enhancement to the software of the central office of the PSTN. To use the features offered by the Elliot '781 patent, the call must reach the central office offering the feature.
4. U.S. Patents 6,445,694 and 6,785,266 to Swartz disclose methods to provide telephone features, where the processing that provides the features occurs outside of the PSTN.
5. U.S. Patent 6,094,478 to Shepherd describes a processor for providing features, where the processor is located at the terminating central office.
6. U.S. Patent 6,853,714 to Liljestrand is similar to the Shepherd patent in that the processing for providing telephone features occurs at the central office.


Citation of these documents shall not be construed as:

1. an admission that the documents are necessarily prior art with respect to the instant invention;
2. a representation that a search has been made; or
3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

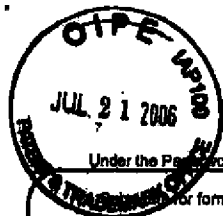
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 2/12/06
 Attorney for Applicant(s) Date

Respectfully submitted,


 Brian D. Oganowsky
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PTO/SB/08A (07-06)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>	Complete if Known	
	Application Number	11/428,822
	Filing Date	July 5, 2006
	First Named Inventor	Samuel F. Wood
	Art Unit	2614 ²⁶⁵¹
	Examiner Name	Not yet known <i>Sonia Gay</i>
Sheet 1 of 22	Attorney Docket Number	TEL-M-8801-1P-1C

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 4100377	Jul., 1978	Flanagan	
		US- 4238851	Dec., 1980	Takahashi et al.	
		US- 4569041	Feb., 1986	Takeuchi et al.	
		US- 4608685	Aug., 1986	Jain et al.	
		US- 4630260	Dec., 1986	Toy et al.	
		US- 4630262	Dec., 1986	Callans et al.	
		US- 4661947	Apr., 1987	Lea et al.	
		US- 4674082	Jun., 1987	Flanagin et al.	
		US- 4679190	Jul., 1987	Dias et al.	
		US- 4679191	Jul., 1987	Nelson et al.	
		US- 4707831	Nov., 1987	Weir, deceased et al.	
		US- 4715026	Dec., 1987	Eberspaecher	
		US- 4723238	Feb., 1988	Isreal et al.	
		US- 4757497	Jul., 1988	Beierle et al.	
		US- 4761779	Aug., 1988	Nara et al.	
		US- 4771425	Sep., 1988	Baran et al.	
		US- 4815071	Mar., 1989	Shimizu	
		US- 4819228	Apr., 1989	Baran et al.	
		US- 4862451	Aug., 1989	Closs et al.	

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		Art Unit	2614 2651 Sonia Gay
		Examiner Name	Not yet known
Sheet 2 of 22	Attorney Docket Number	TEL-M-8801-1P-1C	

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		Number-Kind Code ² (if known)			
		US- 4866704	Sep., 1989	Bergman	
		US- 4872159	Oct., 1989	Hemmady et al.	
		US- 4872160	Oct., 1989	Hemmady et al.	
		US- 4885739	Dec., 1989	Read et al.	
		US- 4903261	Feb., 1990	Baran et al.	
		US- 4926416	May., 1990	Weik	
		US- 4932022	Jun., 1990	Kaeney et al.	
		US- 4933931	Jun., 1990	Kokubo	
		US- 4953158	Aug., 1990	Schreur	
		US- 4958341	Sep., 1990	Hemmady et al.	
		US- 4962497	Oct., 1990	Ferenc et al.	
		US- 4969184	Nov., 1990	Gordon et al.	
		US- 4970721	Nov., 1990	Aczel et al.	
		US- 4975695	Dec., 1990	Almond et al.	
		US- 4996685	Feb., 1991	Farese et al.	
		US- 5008929	Apr., 1991	Olsen et al.	
		US- 5014266	May., 1991	Bales et al.	
		US- 5018136	May., 1991	Goßub	
		US- 5020058	May., 1991	Holden et al.	

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		First Named Inventor	Samuel F. Wood
		Art Unit	2614 2651
		Examiner Name	Not yet known Sonia Gay
		Attorney Docket Number	TEL-M-8801-1P-1C
Sheet 3	of 22		

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		Number-Kind Code ² (if known)			
		US- 5022071	Jun., 1991	Mozar et al.	
		US- 5048081	Sep., 1991	Gavaras et al.	
		US- 5051983	Sep., 1991	Kemmerl	
		US- 5093827	Mar., 1992	Franklin et al.	
		US- 5115431	May., 1992	Williams et al.	
		US- 5150357	Sep., 1992	Hopner et al.	
		US- 5157662	Oct., 1992	Tadamura et al.	
		US- 5197067	Mar., 1993	Fujimoto et al.	
		US- 5208806	May., 1993	Hasegawa	
		US- 5218602	Jun., 1993	Grant et al.	
		US- 5231633	Jul., 1993	Hluchyj et al.	
		US- 4926416	May., 1990	Weik	
		US- 4932022	Jun., 1990	Keeney et al.	
		US- 4933931	Jun., 1990	Kokubo	
		US- 5241588	Aug., 1993	Babson, III et al.	
		US- 5247571	Sep., 1993	Kay et al.	
		US- 5268900	Dec., 1993	Hluchyj et al.	
		US- 5274635	Dec., 1993	Rahman et al.	
		US- 5291489	Mar., 1994	Morgan et al.	

FOREIGN PATENT DOCUMENTS						
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Substitute for form 1449/PTO <h2 style="text-align: center; margin: 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center; font-size: small;">(Use as many sheets as necessary)</p>	<h3 style="text-align: center; margin: 0;">Complete if Known</h3> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>11/428,822</td> </tr> <tr> <td>Filing Date</td> <td>July 5, 2006</td> </tr> <tr> <td>First Named Inventor</td> <td>Samuel F. Wood</td> </tr> <tr> <td>Art Unit</td> <td>2614 2651</td> </tr> <tr> <td>Examiner Name</td> <td>Not yet known</td> </tr> <tr> <td>Attorney Docket Number</td> <td>TEL-M-8801-1P-1C</td> </tr> </table>	Application Number	11/428,822	Filing Date	July 5, 2006	First Named Inventor	Samuel F. Wood	Art Unit	2614 2651	Examiner Name	Not yet known	Attorney Docket Number	TEL-M-8801-1P-1C
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Art Unit	2614 2651												
Examiner Name	Not yet known												
Attorney Docket Number	TEL-M-8801-1P-1C												
Sheet <u>4</u> of <u>22</u>													

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 5301189	Apr., 1994	Schmidt et al.	
		US- 5305308	Apr., 1994	English et al.	
		US- 5327428	Jul., 1994	Van As et al.	
		US- 5341374	Aug., 1994	Lewen et al.	
		US- 5351276	Sep., 1994	Doll, Jr. et al.	
		US- 5351286	Sep., 1994	Nici	
		US- 5353283	Oct., 1994	Tsuchiya	
		US- 5359598	Oct., 1994	Stegall et al.	
		US- 5365521	Nov., 1994	Ohnishi et al.	
		US- 5379293	Jan., 1995	Kanno et al.	
		US- 5381405	Jan., 1995	Daugherty et al.	
		US- 5381466	Jan., 1995	Shibayama et al.	
		US- 5383183	Jan., 1995	Yoshida	
		US- 5384840	Jan., 1995	Blatchford et al.	
		US- 5390184	Feb., 1995	Morris	
		US- 5396491	Mar., 1995	Newman	
		US- 5420858	May., 1995	Marshall et al.	
		US- 5422882	Jun., 1995	Hiller et al.	
		US- 5423003	Jun., 1995	Berteau	

FOREIGN PATENT DOCUMENTS						
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner Signature: <u>/Sonia Gay/</u>	Date Considered	<u>12/17/2012</u>
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	First Named Inventor	Samuel F. Wood
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Attorney Docket Number	TEL-M-8801-1P-1C	
Sheet 5 of 22		

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		Number-Kind Code ² (if known)			
		US- 5426636	Jun., 1995	Hiller et al.	
		US- 5428607	Jun., 1995	Hiller et al.	
		US- 5428616	Jun., 1995	Field et al.	
		US- 5430719	Jul., 1995	Weisser, Jr.	
		US- 5434913	Jul., 1995	Tung et al.	
		US- 5436898	Jul., 1995	Bowen et al.	
		US- 5438614	Aug., 1995	Rozman et al.	
		US- 5444709	Aug., 1995	Riddle	
		US- 5452289	Sep., 1995	Sharma et al.	
		US- 5453986	Sep., 1995	Davis et al.	
		US- 5457684	Oct., 1995	Bharucha et al.	
		US- 5471470	Nov., 1995	Sharma et al.	
		US- 5479411	Dec., 1995	Klein	
		US- 5485457	Jan., 1996	Aramaki	
		US- 5521914	May., 1996	Mavraganis et al.	
		US- 5526353	Jun., 1996	Henley et al.	
		US- 5537403	Jul., 1996	Cloonan et al.	
		US- 5541917	Jul., 1996	Farris	
		US- 5544161	Aug., 1996	Bigham et al.	

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		Number-Kind Code ² (if known)			
		US- 5544163	Aug., 1996	Madonna	
		US- 5544164	Aug., 1996	Baran	
		US- 5544168	Aug., 1996	Jeffrey et al.	
		US- 5553063	Sep., 1996	Dickson	
		US- 5568475	Oct., 1996	Doshi et al.	
		US- 5570355	Oct., 1996	Dall et al.	
		US- 5572583	Nov., 1996	Wheeler, Jr. et al.	
		US- 5577038	Nov., 1996	Miyahara	
		US- 5577041	Nov., 1996	Sharma et al.	
		US- 5579308	Nov., 1996	Humpleman	
		US- 5590181	Dec., 1996	Hogan et al.	
		US- 5592477	Jan., 1997	Farris et al.	
		US- 5592538	Jan., 1997	Kosowsky et al.	
		US- 5594732	Jan., 1997	Bell et al.	
		US- 5600643	Feb., 1997	Robrock, II	
		US- 5600649	Feb., 1997	Sharma et al.	
		US- 5602991	Feb., 1997	Berteau	
		US- 5604737	Feb., 1997	Iwami et al.	
		US- 5608786	Mar., 1997	Gordon	

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Sheet <u>7</u> of <u>22</u>	Attorney Docket Number	TEL-M-8801-1P-1C

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 5613069	Mar., 1997	Walker	
		US- H1641	Apr., 1997	Shaman	
		US- 5621727	Apr., 1997	Vaudreuil	
		US- 5625677	Apr., 1997	Feiertag et al.	
		US- 5631897	May., 1997	Pacheco et al.	
		US- 5640446	Jun., 1997	Everett et al.	
		US- 5650999	Jul., 1997	Dickson	
		US- 5654957	Aug., 1997	Koyama	
		US- 5659541	Aug., 1997	Chan	
		US- 5659542	Aug., 1997	Bell et al.	
		US- 5680437	Oct., 1997	Segal	
		US- 5684799	Nov., 1997	Bigham et al.	
		US- 5689553	Nov., 1997	Ahuja et al.	
		US- 5692126	Nov., 1997	Templeton et al.	
		US- 5701301	Dec., 1997	Weisser, Jr.	
		US- 5706286	Jan., 1998	Reiman et al.	
		US- 5710769	Jan., 1998	Anderson et al.	
		US- 5712903	Jan., 1998	Bartholomew et al.	
		US- 5712908	Jan., 1998	Brinkman et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁴
		Country Code ³ Number ¹ Kind Code ² (if known)				

Examiner Signature	/Sonia Gav/	Date Considered	12/17/2012
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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	11/428,822
		Filing Date	July 5, 2006
		First Named Inventor	Samuel F. Wood
		Art Unit	2614 2651
		Examiner Name	Not yet known
Sheet 8 of 22	Attorney Docket Number	TEL-M-8801-1P-1C	

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		Number-Kind Code ² (if known)				
		US- 5724412		Mar., 1998	Srinivasan	
		US- 5729544		Mar., 1998	Lev et al.	
		US- 5732078		Mar., 1998	Arango	
		US- 5737320		Apr., 1998	Madonna	
		US- 5737331		Apr., 1998	Hoppal et al.	
		US- 5737333		Apr., 1998	Civanlar et al.	
		US- 5740164		Apr., 1998	Liron	
		US- 5740231		Apr., 1998	Cohn et al.	
		US- 5742598		Apr., 1998	Baratz et al.	
		US- 5751706		May., 1998	Land et al.	
		US- 5751968		May., 1998	Cohen	
		US- 5754641		May., 1998	Voit et al.	
		US- 5764628		Jun., 1998	Davis et al.	
		US- 5764736		Jun., 1998	Shachar et al.	
		US- 5764750		Jun., 1998	Chau et al.	
		US- 5764756		Jun., 1998	Onweller	
		US- 5777991		Jul., 1998	Adachi et al.	
		US- 5790538		Aug., 1998	Sugar	
		US- 5793762		Aug., 1998	Penners et al.	

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		Art Unit	2614 2651
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		Attorney Docket Number	TEL-M-8801-1P-1C
Sheet 9 of 22			

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		US- 5793771	Aug., 1998	Darland et al.	
		US- 5799154	Aug., 1998	Kurtyan	
		US- 5805587	Sep., 1998	Norris et al.	
		US- 5805588	Sep., 1998	Petersen	
		US- 5809022	Sep., 1998	Byers et al.	
		US- 5809128	Sep., 1998	McMullin	
		US- 5812534	Sep., 1998	Davis et al.	
		US- 5815505	Sep., 1998	Mills	
		US- 5818912	Oct., 1998	Hammond	
		US- 5825771	Oct., 1998	Cohen et al.	
		US- 5828666	Oct., 1998	Focsaneanu et al.	
		US- 5838665	Nov., 1998	Kahn et al.	
		US- 5867494	Feb., 1999	Krishnaswamy et al.	
		US- 5867495	Feb., 1999	Elliott et al.	
		US- 5881060	Mar., 1999	Morrow et al.	
		US- 5881131	Mar., 1999	Farris et al.	
		US- 5889774	Mar., 1999	Mirashrafi et al.	
		US- 5915008	Jun., 1999	Dulman	
		US- 5922047	Jul., 1999	Newlin et al.	

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Sheet	10	of	22

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		Number-Kind Code ² (if known)			
		US- 5933490	Aug., 1999	White et al.	
		US- 5954799	Sep., 1999	Goheen et al.	
		US- 5963551	Oct., 1999	Minko	
		US- 5991291	Nov., 1999	Asai et al.	
		US- 5999525	Dec., 1999	Krishnaswamy et al.	
		US- 6009469	Dec., 1999	Mattaway et al.	
		US- 6026083	Feb., 2000	Albrow et al.	
		US- 6068890	May., 2000	White et al.	
		US- 6134235	Oct., 2000	Goldman et al.	
		US- 6278707	Aug., 2001	MacMillan et al.	
		US- 6324183	Nov., 2001	Miller et al.	
		US- 6327258	Dec., 2001	Deschaine et al.	
		US- 6339594	Jan., 2002	Civanlar et al.	
		US- 5946684	Aug., 1999	Lund	
		US- 6094478	Jul., 2000	Shepherd et al.	
		US- 6028917	Feb., 2000	Creamer et al.	
		US- 6104800	Aug., 2000	Benson	
		US- 6078581	Jun., 2000	Shtivelman et al.	
		US- 6259692	Jul., 2001	Shtivelman et al.	

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		Attorney Docket Number	TEL-M-8801-1P-1C
Sheet 11	of 22		

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		Number-Kind Code ² (if known)			
		US- 6014437	Jan., 2000	Acker et al.	
		US- 5799072	Aug., 1998	Vulcan et al.	
		US- 5946386	Aug., 1999	Rogers et al.	
		US- 6005870	Dec., 1999	Leung et al.	
		US- 6161128	Dec. 2000	Smyk	
		US- 6614781	Sep., 2003	Elliott et al.	
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	Application Number	11/428,822
	Filing Date	July 5, 2006
	First Named Inventor	Samuel F. Wood
	Art Unit	2614 2651
	Examiner Name	Not yet known <i>Sonia Gay</i>
Sheet 12 of 22	Attorney Docket Number TEL-M-8801-1P-1C	

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		Number-Kind Code ² (if known)				
		US-				
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		EP 0 789 470		Aug., 1997			
		EP 0 794 650		Sep., 1997			
		EP 0 797 373		Sep., 1997			
		EP 0 824 298		Feb., 1998			
		EP 0 829 995		Mar., 1998			
		EP 0 841 831		May., 1998			

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Complete if Known**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT***(Use as many sheets as necessary)*Sheet **13**of **22**

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Examiner Name	Not yet known <i>Sonia Gay</i>
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		EP 0 847 176	Jun., 1998			
		EP 0 866 596	Sep., 1998			
		EP 0 872 998	Oct., 1998			
		GB 2 315 190	Jan., 1998			
		JP 10-23067	Jan., 1998			
		JP 10-51453	Feb., 1998			

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FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁴
		Country Code ² Number ³ Kind Code ⁵ (If known)					
		JP	10-164135	Jun., 1998			
		JP	10-164257	Jun., 1998			
		WO	96/08935	Mar., 1996			
		WO	96/15598	May., 1996			
		WO	97/14238	Apr., 1997			
		WO	97/14234 A2	Apr., 1997			

Examiner Signature	/Sonia Gay/	Date Considered	12/17/2012
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /S.G./

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	11/428,822
Filing Date	July 5, 2006
First Named Inventor	Samuel F. Wood
Art Unit	2614 2651
Examiner Name	Not yet known Sonia Gay
Attorney Docket Number	TEL-M-8801-1P-1C

Sheet 15 of 22

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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		US-			
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		WO 97/16007	May., 1997			
		WO 97/22216	Jun., 1997			
		WO 97/23078	Jun., 1997			
		WO 97/27692	Jul., 1997			
		WO 97/28628	Aug., 1997			
		WO 97/29581	Aug., 1997			

Examiner Signature	/Sonia Gay/	Date Considered	12/17/2012
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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	11/428,822
		Filing Date	July 5, 2008
		First Named Inventor	Samuel F. Wood
		Art Unit	2614 2651
		Examiner Name	Not yet known Sonia Gay
		Attorney Docket Number	TEL-M-8801-1P-1C
Sheet	16	of	22

U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁴
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)					
		WO	97/31492	Aug., 1997			
		WO	97/33412	Sep., 1997			
		WO	97/38551	Oct., 1997			
		WO	97/39560	Oct., 1997			
		WO	97/38511 A2	Oct., 1997			
		WO	97/47118	Dec., 1997			

Examiner Signature	/Sonia Gay/	Date Considered	12/17/2012
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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>	Complete if Known	
	Application Number	11/428,822
	Filing Date	July 5, 2006
	First Named Inventor	Samuel F. Wood
	Art Unit	2614 ²⁶⁵¹
	Examiner Name	Not yet known ^{Sonia Gay}
Sheet 17 of 22	Attorney Docket Number	TEL-M-8801-1P-1C

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁴
		Country Code ² *Number ³ *Kind Code ⁵ (if known)				
		WO 97/50217	Dec., 1997			
		WO 97/50271	Dec., 1997			
		WO 97/46073 A2	Dec., 1997			
		WO 97/50277 A2	Dec., 1997			
		WO 98/04989	Feb., 1998			
		WO 98/11704	Mar., 1998			

Examiner Signature	/Sonia Gay/	Date Considered	12/17/2012
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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	11/428,822
		Filing Date	July 5, 2006
		First Named Inventor	Samuel F. Wood
		Art Unit	2614 2651
		Examiner Name	Not yet known Sonia Gay
		Attorney Docket Number	TEL-M-8801-1P-1C
Sheet 18	of 22		

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁴
		Country Code ² Number ³ Kind Code ³ (if known)				
		Wo 98/12860	Mar., 1998			
		WO 98/13974	Apr., 1998			
		WO 98/18238	Apr., 1998			
		WO 98/18289	Apr., 1998			
		WO 98/19425	May., 1998			
		WO 98/19445	May., 1998			

Examiner Signature	/Sonia Gay/	Date Considered	12/17/2012
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Substitute for form 1449/PTO <h3 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h3> <p style="text-align: center;"><i>(Use as many sheets as necessary)</i></p>	Complete if Known
	Application Number 11/428,822
	Filing Date July 5, 2006
	First Named Inventor Samuel F. Wood
	Art Unit 2614 2651
	Examiner Name Not yet known Sonia Gay
	Attorney Docket Number TEL-M-8801-1P-1C
Sheet 19 of 22	

U. S. PATENT DOCUMENTS						
Examiner Initials [*]	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)					
		WO	98/20701	May., 1998			
		WO	98/23067	May., 1998			
		WO	98/23080	May., 1998			
		WO	98/26543	Jun., 1998			
		WO	0 851 653	Jul., 1998			
		WO	D 853 411 A2	Jul., 1998			

Examiner Signature	/Sonia Gay/	Date Considered	12/17/2012
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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	11/428,822
		Filing Date	July 5, 2006
		First Named Inventor	Samuel F. Wood
		Art Unit	2614 2651
		Examiner Name	Not yet known Sonia Gay
		Attorney Docket Number	TEL-M-8801-1P-1C
Sheet 20 of 22			

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Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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		WO 98/28885	Jul., 1998			
		WO 98/30007	Jul., 1998			
		WO 98/30008	Jul., 1998			
		WO 98/34391	Aug., 1998			
		WO 98/34399	Aug., 1998			
		WO 98/36543	Aug., 1998			

Examiner Signature	/Sonia Gay/	Date Considered	12/17/2012
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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Complete if Known	
		Application Number	11/428,822
		Filing Date	July 5, 2006
		First Named Inventor	Samuel F. Wood
		Art Unit	2614 2651
		Examiner Name	Not yet known Sonia Gay
Sheet 21 of 22	Attorney Docket Number	TEL-M-8801-1P-1C	

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		WO	98/37665	Aug., 1998			
		WO	98/37688 A2	Aug., 1998			
		WO	98/39897	Sep., 1998			
		WO	98/42104	Sep., 1998			
		WO	98/42107	Sep., 1998			
		WO	98/42146	Sep., 1998			

Examiner Signature	Date Considered	12/17/2012
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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
Sheet <u>22</u> of <u>22</u>		Application Number	11/428,822
		Filing Date	July 5, 2006
		First Named Inventor	Samuel F. Wood
		Art Unit	2814 2651
		Examiner Name	Not yet known Sonia Gay
		Attorney Docket Number	TEL-M-8801-1P-1C

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US-			
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ³
		Country Code ² Number ⁴ Kind Code ⁵ (if known)				
		WO 98/47256 A2	Oct., 1998			
		WO 98/51063	Nov., 1998			

Examiner Signature	/Sonia Gay/	Date Considered	12/17/2012
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	26	baniak.in.	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 14:21

EAST Search History (Interference)

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12/ 17/ 2012 2:22:44 PM

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	26	baniak.in.	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 14:21
S1	3	"11428822"	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 17:51
S2	6901	class adj "4"	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 17:54
S3	1914	S2 and (internet voip voice adj over adj ip voice adj over adj internet adj protocol)	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 18:00
S4	156	S3 and credit adj card	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 18:01
S5	117	("20010028649" | "4656624" | "4757497" | "4771425" | "4872158" | "4872159" | "4872160" | "4893302" | "4899333" | "4922486" | "4949373" | "4958341" | "4977556" | "5282244" | "5329619" | "5341374" | "5384840" | "5452289" | "5453986" | "5463629" | "5535204" | "5550906" | "5553063" | "5568475" | "5581596" | "5583872" | "5617423" | "5619508" | "5623488" | "5636218" | "5659541" | "5706286" | "5726984" | "5742596" | "5751706" | "5757895" | "5764628" | "5764750" | "5774655" | "5787088" | "5799317" | "5819092" | "5822420" | "5841840" | "5841841" | "5848069" | "5860068" | "5862134" | "5881060" | "5889845" | "5901205" | "5944783" | "5970066" | "5978373" | "5987102" | "5999525" | "5999965" | "6003084" | "6009469" | "6021158" | "6026087" | "6029203" | "6034953" | "6058104" | "6061392" | "6069879" | "6072865" | "6075784" | "6081591" | "6104796" | "6108704" | "6125113" | "6131162" | "6134446" | "6188760" | "6229803" | "6339594" | "6407997" |	US-PGPUB; USPAT; USOCR	OR	ON	2012/12/07 18:14

		"6560633" | "6724747" | "6854006").PN. OR ("7069291").URPN.				
S6	37	S3 and credit adj card and caller adj id	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 18:48
S7	19	web adj server same select\$3 with feature same call adj forwarding	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 18:51
S8	59	web adj server and select\$3 with feature same call adj forwarding	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 18:54
S9	6	("5537461" | "5608786" | "5675507" | "6233318").PN. OR ("6744737").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2012/12/07 19:02
S10	80	("5608786" | "5623601" | "5675507" | "5703940" | "5732074" | "5737395" | "5742668" | "5768267" | "5864757" | "5867661" | "5956636" | "5958016" | "6014651" | "6029195" | "6047051" | "6061346").PN. OR ("6295291").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2012/12/07 19:02
S11	467	("4768150" | "4855905" | "5241588" | "5247571" | "5287103" | "5309437" | "5327486" | "5377186" | "5392357" | "5406557" | "5423003" | "5436957" | "5469500" | "5471459" | "5495521" | "5499290" | "5517562" | "5519772" | "5526413" | "5526489" | "5539886" | "5566235" | "5572581" | "5572583" | "5586177" | "5623601" | "5721908" | "5802146" | "5826029").PN. OR ("5958016").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2012/12/07 19:12
S12	42	("5953392" | "5958016" | "5974449" | "6012088" | "6014437" | "6028917" | "6078581" | "6104800" | "6259692").PN. OR ("6529596").URPN.	US- PGPUB; USPAT; USOCR	OR	ON	2012/12/07 19:19
S13	535	S2 and (voip voice adj over adj ip voice adj over adj internet adj protocol)	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 19:20
S14	57	S13 and credit adj card	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 19:20
S15	12	S13 and credit adj card and xml	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 19:21
S16	71	cpml	US- PGPUB; USPAT;	OR	ON	2012/12/07 19:26

			USOCR; IBM_TDB			
S17	471	xml and select\$3 with feature and caller adj id	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 19:27
S18	131	xml and select\$3 with feature and caller adj id and "379".clas.	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 19:27
S19	152	xml and select\$3 same caller adj id and "379".clas.	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 19:29
S20	37	("20010038689" | "20020029276" | "20020076003" | "20020199182" | "20030053444" | "20030228011" | "20040013109" | "20040137897" | "20040176997" | "5491742" | "5629978" | "5917817" | "6031904" | "6041325" | "6091808" | "6144644" | "6161128" | "6278704" | "6282281" | "6337899" | "6341353" | "6343119" | "6356543" | "6377993" | "6381320" | "6421727" | "6445694" | "6480890" | "6519252" | "6574661" | "6611498" | "6631186" | "6661779" | "6697357" | "6714637" | "7337220" | "7650304").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/12/07 19:32
S21	13	("5396542" | "5907811" | "6243373" | "6438124" | "6498797" | "6577718" | "6775264" | "6775284" | "6807257" | "6816582" | "6937713" | "7184527" | "7233658").PN.	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 19:34
S22	246	("20010022784" "20010030950" "20030026403" "20030040325" "20030095650" "20030133553" "20030156693" "20030194078" "20040029568" "20040240657" "20040264673" "20050041526" "20050141500" "20050169445" "20050207557" "20070041526" "4100377" "4238851" "4310726" "4313035" "4348554" "4569041" "4608685" "4611094" "4611096" "4630260" "4630262" "4661947" "4674082" "4679190" "4679191" "4707831" "4715026" "4723238" "4757497" "4761779" "4771425" "4815071" "4819228" "4862451" "4866704" "4872159" "4872160" "4885739" "4903261" "4926416" "4932022" "4933931" "4953158" "4953198" "4958341" "4962497" "4969184" "4970721" "4973837" "4975695" "4996685" "5008929" "5014266" "5018136" "5020058" "5022071" "5048081" "5051983" "5093827" "5115431" "5150357" "5157662" "5197067" "5208806"	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 19:39

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S23	215	select\$3 same call adj forwarding and xml			US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 19:42

S24	376	select\$3 with (service feature) and phone adj number and call adj forwarding and xml	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 19:45
S25	687	(service feature) and phone adj number and call adj forwarding and xml	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 19:47
S26	57	(service feature) and phone adj number and call adj forwarding and xml with convert\$3	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 19:48
S27	103	(service feature) and phone adj number and call adj forwarding and xml with generat\$3	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 19:48
S28	103	(service feature) and phone adj number and call adj forwarding and xml with generat\$3	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 19:51
S29	1792	input\$3 with xml with generat\$3	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 19:52
S30	0	input\$3 with cpml with generat\$3	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 19:52
S31	1	cpml with generat\$3	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 19:52
S32	858	selection same generat\$3 with xml	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 19:53
S33	13	selection same generat\$3 with xml and "379".clas.	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 19:53
S34	287	user near5 selection same generat\$3 with xml	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 19:54
S35	223	user near5 selection same creat\$3 with xml	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 19:59

S36	447	user near5 selection with generat\$3 with web adj page	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 20:01
S37	21	user near5 selection with generat\$3 with web adj page and "379".clas.	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 20:01
S38	5	user near5 selection same stored with web adj page and "379".clas.	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 20:02
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S40	26	selection same stored with web adj page and "379".clas.	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 20:06
S41	6	selection same stored with web adj page and call adj forwarding	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 20:08
S42	264	selection same web adj page and call adj forwarding	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/07 20:09
S43	1	"5958016".pn.	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/15 20:50
S44	1	13/358353	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/15 21:32
S45	1	"7324635".pn.	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/15 21:37
S46	3	"11428822"	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/15 21:39
S47	13	telemaze	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/15 21:43
S48	13	telemaze	US-	OR	ON	2012/12/15

			PGPUB; USPAT; USOCR; IBM_TDB			23:28
S49	2	voip and denial adj service and @ad<"20000101"	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/15 23:34
S50	259	denial adj service and @ad<"20000101"	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/15 23:35
S51	2	denial adj service and prevent\$3 near4 hacking and @ad<"20000101"	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/15 23:35
S52	3	denial adj service and hacking and link adj degradation	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/15 23:38
S53	16	cutover near4 pstn and link adj degradation	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/15 23:38
S54	18	cutover near4 pstn	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/15 23:39
S55	0	voip and link near4 quality and pst and @ad<"20000101"	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/15 23:40
S56	28	voip and link near4 quality and pstn and @ad<"20000101"	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/15 23:40
S57	16	automatic near4 pstn same feature	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/15 23:42
S58	1	voip and hacking and @ad<"20000101"	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/15 23:43
S59	37	prevent\$3 near4 hacking and @ad<"20000101"	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/15 23:43
S60	13	"10426279"	US-	OR	ON	2012/12/15

			PGPUB; USPAT; USOCR; IBM_TDB			23:49
S61	3	11/428822	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/15 23:51
S62	13	10/426279	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/15 23:52
S63	13	"09565565"	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/15 23:53
S64	14	"09/565565"	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/15 23:54
S65	4	prevent\$3 near4 denial adj service and detect\$3 with voip with degradation	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 00:00
S66	167	prevent\$3 near4 denial adj service and degradation	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 00:00
S67	17	prevent\$3 near4 denial adj service and degradation and pstn and voip	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 00:01
S68	89	security near4 feature with subscrib\$3 and voip	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 00:04
S69	1398	security with subscrib\$3 and voip	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 00:05
S70	91	security with subscrib\$3 and voip and denial adj service	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 00:05
S71	189	class adj service and voip and denial adj service	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 00:09
S72	129	security with subscribe and voip	US-	OR	ON	2012/12/16

			PGPUB; USPAT; USOCR; IBM_TDB			00:11
S73	0	security same denial adj service	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 00:11
S74	3582	security same denial adj service	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 00:11
S75	0	security same denial adj service same link near4 quality	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 00:12
S76	64	security same denial adj service and link near4 quality	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 00:12
S77	161	denial adj service same hacking	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 00:13
S78	1233	security with profile and voip	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 00:14
S79	67	security with profile and voip and denial adj service adj attack	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 00:15
S80	582	voip and denial adj service adj attack	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 00:16
S81	4	voip and denial adj service adj attack and link near4 quality	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 00:16
S82	1793	voip and link near4 quality	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 00:17
S83	247	voip and link near4 quality same2 pstn	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 00:17
S84	3875	subscriber with select\$3 near4 number	US-	OR	ON	2012/12/16

			PGPUB; USPAT; USOCR; IBM_TDB			00:48
S85	1712	subscriber with select\$3 near4 number and "379".clas.	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 00:48
S86	0	subscriber with select\$3 near4 number and credite adj card and "379".clas.	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 00:49
S87	189	subscriber with select\$3 near4 number and credit adj card and "379".clas.	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 00:49
S88	404	denial adj service adj attack and hacking	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 13:32
S89	43	denial adj service adj attack and hacking and link near4 quality	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 13:35
S90	91	denial adj service adj attack and link near4 quality	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 13:38
S91	1	denial adj service adj attack and link near4 quality same pstn	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 13:39
S92	239	link near4 quality same pstn	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 13:39
S93	3	link near4 quality same pstn same voip	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 13:40
S94	0	rout\$3 with pstn with internet and "370.clas"	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 13:41
S95	18	cutover near4 pstn	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 13:41
S96	20	direct adj access adj gateway	US-	OR	ON	2012/12/16

			PGPUB; USPAT; USOCR; IBM_TDB			13:41
S97	2524	service with voip with pstn	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 13:42
S98	61	service with voip with pstn with select\$3	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 13:43
S99	293	service with voip with pstn with subscribe\$3	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 13:45
S100	40	service with voip with pstn with (subscribe subscribing subscribed)	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 13:46
S101	9	("5812786" | "6028867" | "6081509" | "6081517" | "6118780" | "6125177" | "6130893" | "6226361" | "6229810").PN.	US- PGPUB; USPAT; USOCR	OR	ON	2012/12/16 13:49
S102	1550	level near service and denial adj service	US- PGPUB; USPAT; USOCR	OR	ON	2012/12/16 14:19
S103	37	level near service and denial adj service and quality same pstn	US- PGPUB; USPAT; USOCR	OR	ON	2012/12/16 14:19
S104	76	level near service and denial adj service and hacking	US- PGPUB; USPAT; USOCR	OR	ON	2012/12/16 14:19
S105	1177	rout\$3 with pstn with voip	US- PGPUB; USPAT; USOCR	OR	ON	2012/12/16 14:46
S106	159	rout\$3 with pstn with voip same quality	US- PGPUB; USPAT; USOCR	OR	ON	2012/12/16 14:46
S107	1	"6282192".pn.	US- PGPUB; USPAT; USOCR	OR	ON	2012/12/16 14:49
S108	4	09/492423	US- PGPUB; USPAT; USOCR	OR	ON	2012/12/16 14:50
S109	296	service same caller adj id adj blocking	US- PGPUB; USPAT;	OR	ON	2012/12/16 23:08

			USOCR; IBM_TDB			
S110	296	service same caller adj id adj blocking	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 23:08
S111	13	telemaze.as.	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 23:09
S112	9	("5953392" | "5958016" | "5974449" | "6012088" | "6014437" | "6028917" | "6078581" | "6104800" | "6259692").PN.	US- PGPUB; USPAT; USOCR	OR	ON	2012/12/16 23:10
S113	1	"13358353"	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 23:13
S114	8	caller adj id adj blocking and call adj logging	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 23:31
S115	28	caller adj id adj blocking and call adj log	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 23:32
S116	383	caller adj id adj blocking and call and messag\$3	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 23:33
S117	109	caller adj id adj blocking and call and sms	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 23:34
S118	58	caller adj id adj blocking same service and call and sms	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 23:34
S119	1	caller adj id adj blocking same service same log\$4	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 23:45
S120	1534	call same sms and call adj log\$4	US- PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 23:46
S121	55	call same sms and call adj log\$4 same security	US- PGPUB; USPAT; USOCR;	OR	ON	2012/12/16 23:46

			IBM_TDB			
S122	258	call adj log\$4 same security	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 23:47
S123	2	call adj log\$4 same security and switch same call near4 leg	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 23:47
S124	61	dslam same bridging	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 23:48
S125	3	dslam same bridging and call and sms	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/16 23:48
S126	34	security same call adj logging	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 00:05
S127	4	call adj logging same call adj blocking	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 00:06
S128	37	call adj logging same call adj forwarding	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 00:07
S129	1	"6118780".pn.	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 00:32
S130	0	indirect adj access adj gateway	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 00:33
S131	9	indirect with access adj gateway	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 00:33
S132	20	direct adj access adj gateway	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 00:34
S133	5708	switch and call same short adj message	US-PGPUB; USPAT; USOCR;	OR	ON	2012/12/17 01:14

			IBM_TDB			
S134	262	switch with bridg\$3 and call same short adj message	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 01:14
S135	64	switch with bridg\$3 and call same short adj message and "379".clas.	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 01:14
S136	19	switch with leg and call same short adj message and "379".clas.	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 01:17
S137	16	switch with leg near call and call same short adj message and "379".clas.	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 01:19
S138	84	switch with leg near call and call and short adj message	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 01:20
S139	230	switch with leg near call and "379".clas.	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 01:23
S140	121	switch with second near call with called and "379".clas.	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 01:23
S141	469	switch with bridg\$3 with called and "379".clas.	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 01:27
S142	21	switch with bridg\$3 with called and "379".clas. and short adj message	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 01:27
S143	469	switch with bridg\$3 with called and "379".clas.	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 01:28
S144	38	switch with bridg\$3 with called and "379".clas. and pstn and voip	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 01:29
S145	0	switch with bridg\$3 with routing with called and "379".clas. and pstn and voip	US-PGPUB; USPAT; USOCR;	OR	ON	2012/12/17 01:33

			IBM_TDB			
S146	22	switch with bridg\$3 with routing with called	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 01:33
S147	0	telemaze.as. and short adj message	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 02:10
S148	0	telemaze.as. and text adj message	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 02:12
S149	13	telemaze.as. and message	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 02:12
S150	3	11/428822	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 02:41
S151	16	tandem adj access adj controller	US-PGPUB; USPAT; USOCR; IBM_TDB	OR	ON	2012/12/17 06:07

EAST Search History (Interference)

<This search history is empty>

12/ 17/ 2012 2:22:57 PM**C:\Users\sgay\Documents\EAST\Workspaces\13358353.wsp**




UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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 www.uspto.gov

BIB DATA SHEET

CONFIRMATION NO. 7896

SERIAL NUMBER 13/358,353	FILING or 371(c) DATE 01/25/2012 RULE	CLASS 379	GROUP ART UNIT 2651	ATTORNEY DOCKET NO. 357323-990127	
APPLICANTS Samuel F. Wood, Los Altos, CA; Jerry A. Klein, Los Altos, CA; Margaret Susan Asprey, Los Altos, CA; ** CONTINUING DATA ***** This application is a CON of 11/428,822 07/05/2006 PAT 8,155,298 which is a CON of 10/426,279 04/30/2003 PAT 7,324,635 which is a CIP of 09/565,565 05/04/2000 PAT 6,574,328 ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED *** SMALL ENTITY ** 02/06/2012					
Foreign Priority claimed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 35 USC 119(a-d) conditions met <input type="checkbox"/> Yes <input type="checkbox"/> No Verified and Acknowledged <u>/SONIA L GAY/</u> Examiner's Signature	<input type="checkbox"/> Met after Allowance Initials	STATE OR COUNTRY CA	SHEETS DRAWINGS 11	TOTAL CLAIMS 21	INDEPENDENT CLAIMS 1
ADDRESS DLA PIPER LLP (US) 2000 UNIVERSITY AVENUE EAST PALO ALTO, CA 94303-2248 UNITED STATES					
TITLE Tandem Access Controller Within The Public Switched Telephone Network					
FILING FEE RECEIVED 560	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit		

<i>Index of Claims</i> 	Application/Control No. 13358353	Applicant(s)/Patent Under Reexamination WOOD ET AL.
	Examiner SONIA GAY	Art Unit 2651

✓	Rejected
=	Allowed

-	Cancelled
÷	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

Claims renumbered in the same order as presented by applicant
 CPA
 T.D.
 R.1.47

CLAIM		DATE							
Final	Original	12/17/2012							
	1	✓							
	2	✓							
	3	✓							
	4	✓							
	5	✓							
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	15	✓							
	16	✓							
	17	✓							
	18	✓							
	19	✓							
	20	✓							
	21	✓							

INFORMATION DISCLOSURE STATEMENT	Applicant:	Samuel Wood et al
	Application No.	13/358,353
	Filed:	January 25, 2012
	For:	Tandem Access Controller Within The Public Switched Telephone Network
	Group Art Unit:	2614
	Examiner:	Not yet assigned
	Attorney Docket No.:	357323-990127
Commissioner of Patents and Trademarks P.O. Box 1450 Alexandria, VA 22313-1450		
Dear Sir:		
In accordance with the provisions of 37 C.F.R. § 1.56(a) and 37 C.F.R. § 1.97, Applicant(s) hereby make of record the references listed on the accompanying Form PTO-1449 for consideration by the Examiner in connection with the examination of the above-identified patent application.		
This Information Disclosure Statement:		
(a)	<input type="checkbox"/>	accompanies a new CONTINUATION patent application submitted herewith.
(b)	<input checked="" type="checkbox"/>	is filed within three (3) months of the Filing Date or before the mailing date of a First Office Action on the merits; OR
(c)	<input type="checkbox"/>	after the period defined in (b) but before the mailing date of a Final Rejection or Notice of Allowance, OR
(d)	<input type="checkbox"/>	is filed after the first Office Action and more than three months after the application's filing date or PCT national stage date of entry filing but, as far as is known to the undersigned prior to the mailing date of either a final rejection or a notice of allowance, and is accompanied by either the fee (\$180) set forth in 37 CFR § 1.17(p) or a certification as specified in 37 CFR § 1.97(e), as checked below OR
(e)	<input type="checkbox"/>	is filed after the mailing date of either a final rejection or a notice of allowance, and the issue fee has not been paid, and is accompanied by the requisite petition fee (\$130) set forth in 37 CFR § 1.17(l)(1) and a certification as specified in 37 CFR § 1.97(e), as checked below. This document is to be considered as a petition requesting consideration of the information disclosure statement.
As required under § 1.97(e), Applicants, through the undersigned, hereby state either that [check the appropriate space]:		
(f)	<input type="checkbox"/>	Each item of information contained in the Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing date of the Information Disclosure Statement; or
(g)	<input type="checkbox"/>	No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

It is respectfully requested that the references shown on the attached IDS form be made of record and considered in this application.

Thank you for your consideration.

The Commissioner is authorized to charge any deficiencies and credit any overpayment of fees to our Deposit Account No. 07-1896.

Respectfully submitted,

Date: August 3, 2012

DLA PIPER LLP US

By: /Alan A. Limbach/
Reg. No. Alan A. Limbach (Reg. No. 39,749)
Attorneys for Applicant(s)
2000 University Avenue
East Palo Alto, CA 94303-2248
Tel. No. 650-833-2433

Customer Number or Bar Code Label

26379

(Insert Customer No. or Attach bar code label here)

*I hereby certify that this correspondence is being transmitted via electronic submission addressed to:
Commissioner of Patents & Trademarks, P.O. Box 1450,
Alexandria, VA 22313-1450.*

August 3, 2012

Date

/Alan A. Limbach/

Alan Limbach

U.S. DEPT. OF COMMERCE Patent and Trademark Office INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	Atty. Docket No.: 357323-990127	Serial No.: 13/358,353
	Applicants: WOOD, Samuel F. et al.	
	Filing Date: January 25, 2012	Group Art Unit: 2614

U.S. PATENT DOCUMENTS

Examiners Initials	Patent Number/ Publication Number	Date	Name	Class	Subclass	Filing Date
	5,396,542	07 Mar 1995	Alger			
	5,907,811	25 May 1999	Foladare			
	6,243,373	05 Jun 2001	Turock			
	6,438,124	20 Aug 2002	Wilkes			
	6,498,797	24 Dec 2002	Anerousis			
	6,577,718	03 Dec 1985	Goubaud			
	6,775,264	10 Aug 2004	Kurganov			
	6,775,284	10 Aug 2004	Calvignac			
	6,807,257	19 Oct 2004	Kurganov			
	6,816,582	09 Nov 2004	Levine			
	6,937,713	30 Aug 2005	Kung			
	7,184,527	27 Feb 2007	Lin			
	7,233,658	19 Jun 2007	Koser			

FOREIGN PATENT DOCUMENTS

Document number	Date	Country	Class	Sub-class	Translation

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner:	Date Considered:
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP '609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	

Electronic Acknowledgement Receipt

EFS ID:	13417598
Application Number:	13358353
International Application Number:	
Confirmation Number:	7896
Title of Invention:	Tandem Access Controller Within The Public Switched Telephone Network
First Named Inventor/Applicant Name:	Samuel F. Wood
Customer Number:	26379
Filer:	Alan A. Limbach
Filer Authorized By:	
Attorney Docket Number:	357323-990127
Receipt Date:	03-AUG-2012
Filing Date:	25-JAN-2012
Time Stamp:	17:34:58
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	Telemaze990127IDS2.pdf	148830 <small>dda667eaa43d308278d38ef76ceedbb9c8854aab</small>	no	3

Warnings:

Information:

000242

Total Files Size (in bytes):

148830

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

INFORMATION DISCLOSURE STATEMENT	Applicant:	Samuel Wood et al
	Application No.	13/358,353
	Filed:	January 25, 2012
	For:	Tandem Access Controller Within The Public Switched Telephone Network
	Group Art Unit:	2614
	Examiner:	Not yet assigned
	Attorney Docket No.:	357323-990127

Commissioner of Patents and Trademarks
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In accordance with the provisions of 37 C.F.R. § 1.56(a) and 37 C.F.R. § 1.97, Applicant(s) hereby make of record the references listed on the accompanying Form PTO-1449 for consideration by the Examiner in connection with the examination of the above-identified patent application.

This Information Disclosure Statement:

- | | | |
|-----|-------------------------------------|---|
| (a) | <input type="checkbox"/> | accompanies a new CONTINUATION patent application submitted herewith. |
| (b) | <input checked="" type="checkbox"/> | is filed within three (3) months of the Filing Date or before the mailing date of a First Office Action on the merits; OR |
| (c) | <input type="checkbox"/> | after the period defined in (b) but before the mailing date of a Final Rejection or Notice of Allowance, OR |
| (d) | <input type="checkbox"/> | is filed after the first Office Action and more than three months after the application's filing date or PCT national stage date of entry filing but, as far as is known to the undersigned prior to the mailing date of either a final rejection or a notice of allowance, and is accompanied by either the fee (\$180) set forth in 37 CFR § 1.17(p) or a certification as specified in 37 CFR § 1.97(e), as checked below OR |
| (e) | <input type="checkbox"/> | is filed after the mailing date of either a final rejection or a notice of allowance, and the issue fee has not been paid, and is accompanied by the requisite petition fee (\$130) set forth in 37 CFR § 1.17(l)(1) and a certification as specified in 37 CFR § 1.97(e), as checked below. This document is to be considered as a petition requesting consideration of the information disclosure statement. |

As required under § 1.97(e), Applicants, through the undersigned, hereby state either that [check the appropriate space]:

- | | | |
|-----|--------------------------|---|
| (f) | <input type="checkbox"/> | Each item of information contained in the Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing date of the Information Disclosure Statement; or |
| (g) | <input type="checkbox"/> | No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the Information Disclosure Statement. |

Attached herewith are copies of the Form PTO 1449 forms and supplemental IDS in connection with the related USSN 11/428,825, as follows:

- Form PTO-1449 filed on Feb. 10, 2012 – 9 pages
- Form PTO-1449 filed on Sep. 9, 2011 – 1 page
- Form PTO-1449 filed on June 7, 2010 – 1 page
- Supplemental IDS filed on February 18, 2010 – 6 pages
- IDS dated July 17, 2006 and Forms PTO-1449 filed on July 21, 2006 – 24 pages

The copies of the cited foreign references and non-patent literature documents are in the file history of the related USSN 11/428,825.

It is respectfully requested that the references shown on the attached IDS forms be made of record and considered in this application.

Thank you for your consideration.

The Commissioner is authorized to charge any deficiencies and credit any overpayment of fees to our Deposit Account No. 07-1896

Respectfully submitted,

Date: June 4, 2012

DLA PIPER LLP US

By: /Alan A. Limbach/

Reg. No. Alan A. Limbach (Reg. No. 39,749)

Attorneys for Applicant(s)

2000 University Avenue

East Palo Alto, CA 94303-2248

Tel. No. 650-833-2433

Customer Number or Bar Code Label

26379

(Insert Customer No. or Attach bar code label here)

*I hereby certify that this correspondence is being transmitted via electronic submission addressed to:
Commissioner of Patents & Trademarks, P.O. Box 1450,
Alexandria, VA 22313-1450.*

June 4, 2012

Date

/Alan A. Limbach/

Alan Limbach

FORM PTO-1449 LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. TLM-103C1CON2	SERIAL NO. 11/428,822
	APPLICANT: Samuel F. WOOD, et al.	
	FILING DATE: July 5, 2006	GROUP: 2614

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE	
	2001/0022784A1	09-2001	Menon et al.	-----	-----	-----	
	2001/0030950A1	10-2001	Chen et al.	-----	-----	-----	
	2003/0026403A1	11-2007	Clapper	-----	-----	-----	
	2003/0040325A1	02-2003	Clark	-----	-----	-----	
	2003/0095650A1	05-2003	Mize	-----	-----	-----	
	2003/0133553A1	07-2003	Khakoo et al.	-----	-----	-----	
	2003/0156693A1	08-2003	Goldman	-----	-----	-----	
	2003/0194078A1	10-2003	Wood et al.	-----	-----	-----	
	2004/0029568A1	02-2004	DeLuca et al.	-----	-----	-----	
	2005/0041526A1	02-2005	Esmersoy et al.	-----	-----	-----	
	2005/0141500A1	06-2005	Bhandari et al.	-----	-----	-----	
	2005/0169445A1	08-2005	Harris	-----	-----	-----	
	2005/0207557A1	09-2005	Dolan et al.	-----	-----	-----	
	4,313,035	01-1982	Jordan et al.	-----	-----	-----	
	4,348,554	09-1982	Asmuth	-----	-----	-----	
	4,611,094	09-1986	Asmuth et al.	-----	-----	-----	
	4,611,096	09-1986	Asmuth et al.	-----	-----	-----	
	4,953,198	08-1990	Daly et al.	-----	-----	-----	
	4,973,837	11-1990	Bradbeer	-----	-----	-----	
	5,297,191	03-1994	Gerszberg	-----	-----	-----	
	5,311,582	05-1994	Davenport et al.	-----	-----	-----	
	5,428,663	06-1995	Grimes et al.	-----	-----	-----	

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	APPLICANT: Samuel F. WOOD, et al.	
	FILING DATE: July 5, 2006	GROUP: 2614

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE	
	5,448,623	09-1995	Wiedeman et al.	-----	-----	-----	
	5,455,853	10-1995	Cebulka et al.	-----	-----	-----	
	5,471,616	11-1995	Johnson et al.	-----	-----	-----	
	5,495,567	02-1996	Iizawa et al.	-----	-----	-----	
	5,497,339	03-1996	Bernard	-----	-----	-----	
	5,557,658	09-1996	Gregorek et al.	-----	-----	-----	
	5,563,937	10-1996	Bruno et al.	-----	-----	-----	
	5,566,236	10-1996	McLampy et al.	-----	-----	-----	
	5,606,594	02-1997	Register et al.	-----	-----	-----	
	5,628,004	05-1997	Gormley et al.	-----	-----	-----	
	5,646,945	07-1997	Bergler	-----	-----	-----	
	5,727,057	03-1998	Emery et al.	-----	-----	-----	
	5,727,057	03-1998	Emery et al.	-----	-----	-----	
	5,732,074	03-1998	Spaur et al.	-----	-----	-----	
	5,732,216	03-1998	Logan et al.	-----	-----	-----	
	5,737,533	04-1998	De Hond	-----	-----	-----	
	5,742,905	04-1998	Pepe et al.	-----	-----	-----	
	5,802,160	09-1998	Kugell et al.	-----	-----	-----	
	5,806,057	09-1998	Gormley et al.	-----	-----	-----	
	5,838,665	11-1998	Kahn et al.	-----	-----	-----	
	5,850,433	12-1998	Rondeau	-----	-----	-----	
	5,859,972	01-1999	Subramaniam et al.	-----	-----	-----	

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	5,875,405	02-1999	Honda	-----	-----	-----	
	5,878,113	03-1999	Bhusari	-----	-----	-----	
	5,878,418	03-1999	Polcyn et al.	-----	-----	-----	
	5,894,473	04-1999	Dent	-----	-----	-----	
	5,894,595	04-1999	Foladare et al.	-----	-----	-----	
	5,913,029	06-1999	Shostak	-----	-----	-----	
	5,915,008	06-1999	Dulman	-----	-----	-----	
	5,918,172	06-1999	Saunders et al.	-----	-----	-----	
	5,930,700	07-1999	Pepper et al.	-----	-----	-----	
	5,933,778	08-1999	Buhrmann et al.	-----	-----	-----	
	5,938,757	08-1999	Bertsch	-----	-----	-----	
	5,953,392	09-1999	Rhie et al.	-----	-----	-----	
	5,958,016	09-1999	Chang et al.	-----	-----	-----	
	5,960,340	09-1999	Fuentes	-----	-----	-----	
	5,970,059	10-1999	Ahopelto et al.	-----	-----	-----	
	5,974,449	10-1999	Chang et al.	-----	-----	-----	
	5,982,866	11-1999	Kowalski	-----	-----	-----	
	5,991,394	11-1999	Dezonne et al.	-----	-----	-----	
	6,006,272	12-1999	Aravamudan et al.	-----	-----	-----	
	6,012,088	01-2000	Li et al.	-----	-----	-----	
	6,014,437	01-2000	Acker et al.	-----	-----	-----	
	6,020,916	02-2000	Gerszberg et al.	-----	-----	-----	

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
		6,028,917	02-2000	Creamer et al.	-----	-----	-----
		6,031,836	02-2000	Haserodt	-----	-----	-----
		6,031,904	02-2000	An et al.	-----	-----	-----
		6,041,325	03-2000	Shah et al.	-----	-----	-----
		6,044,403	03-2000	Gerszberg et al.	-----	-----	-----
		6,075,992	06-2000	Moon et al.	-----	-----	-----
		6,078,581	06-2000	Shtivelman et al.	-----	-----	-----
		6,084,584	07-2000	Nahi et al.	-----	-----	-----
		6,094,478	07-2000	Shepherd et al.	-----	-----	-----
		6,104,800	08-2000	Benson	-----	-----	-----
		6,141,341	10-2000	Jones et al.	-----	-----	-----
		6,161,134	12-2000	Wang et al.	-----	-----	-----
		6,163,598	12-2000	Moore	-----	-----	-----
		6,167,040	12-2000	Haeggstrom	-----	-----	-----
		6,175,860	01-2001	Gaucher	-----	-----	-----
		6,188,688	02-2001	Buskirk, Jr.	-----	-----	-----
		6,212,261	04-2001	Meubus et al.	-----	-----	-----
		6,216,158	04-2001	Luo et al.	-----	-----	-----
		6,240,097	05-2001	Wesloek et al.	-----	-----	-----
		6,259,692	07-2001	Shtivelman et al.	-----	-----	-----
		6,262,978	07-2001	Bruno et al.	-----	-----	-----
		6,266,539	07-2001	Pardo	-----	-----	-----

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE	
	6,301,609	10-2001	Aravamudan et al.	-----	-----	-----	
	6,308,201	10-2001	Pivowar et al.	-----	-----	-----	
	6,334,126	12-2001	Nagatomo et al.	-----	-----	-----	
	6,337,858	01-2002	Petty et al.	-----	-----	-----	
	6,359,892	03-2002	Szlam	-----	-----	-----	
	6,359,892	03-2002	Szlam	-----	-----	-----	
	6,359,892	03-2002	Szlam et al.	-----	-----	-----	
	6,381,323	04-2002	Schwab et al.	-----	-----	-----	
	6,385,308	05-2002	Cohen et al.	-----	-----	-----	
	6,404,764	06-2002	Jones et al.	-----	-----	-----	
	6,411,615	06-2002	DeGolia et al.	-----	-----	-----	
	6,411,965	06-2002	Klug	-----	-----	-----	
	6,414,962	07-2002	Hall et al.	-----	-----	-----	
	6,418,198	07-2002	Brablec et al.	-----	-----	-----	
	6,421,235	07-2002	Ditzik	-----	-----	-----	
	6,445,694	09-2002	Swartz	-----	-----	-----	
	6,445,697	09-2002	Fenton	-----	-----	-----	
	6,446,127	09-2002	Shuster et al.	-----	-----	-----	
	6,448,978	09-2002	Salvador et al.	-----	-----	-----	
	6,456,594	09-2002	Kaplan et al.	-----	-----	-----	
	6,456,601	09-2002	Kozdon et al.	-----	-----	-----	
	6,459,780	10-2002	Wurster et al.	-----	-----	-----	

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U.S. PATENT DOCUMENTS							
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	6,477,565	11-2002	Daswani et al.	-----	-----	-----	
	6,477,576	11-2002	Angwin et al.	-----	-----	-----	
	6,483,902	11-2002	Stewart et al.	-----	-----	-----	
	6,493,338	12-2002	Preston et al.	-----	-----	-----	
	6,496,477	12-2002	Perkins et al.	-----	-----	-----	
	6,526,462	02-2003	Elabd	-----	-----	-----	
	6,539,359	03-2003	Ladd et al.	-----	-----	-----	
	6,577,622	06-2003	Shuster et al.	-----	-----	-----	
	6,584,490	06-2003	Shuster et al.	-----	-----	-----	
	6,650,901	11-2003	Shuster et al.	-----	-----	-----	
	6,681,252	01-2004	Shuster et al.	-----	-----	-----	
	6,697,461	02-2004	Middleswarth et al.	-----	-----	-----	
	6,731,630	05-2004	Shuster et al.	-----	-----	-----	
	6,741,586	05-2004	Shuster et al.	-----	-----	-----	
	6,744,759	06-2004	Sidhu	-----	-----	-----	
	6,785,266	08-2004	Swartz	-----	-----	-----	
	6,788,775	09-2004	Simpson	-----	-----	-----	
	6,795,429	09-2004	Shuster et al.	-----	-----	-----	
	6,804,224	10-2004	Shuster et al.	-----	-----	-----	
	6,822,957	11-2004	Shuster et al.	-----	-----	-----	
	6,853,714	02-2005	Liljestrand et al.	-----	-----	-----	
	6,856,616	02-2005	Shuster et al.	-----	-----	-----	

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	6,857,021	02-2005	Shuster et al.	-----	-----	-----	
	6,857,072	02-2005	Shuster et al.	-----	-----	-----	
	6,870,830	03-2005	Shuster et al.	-----	-----	-----	
	6,914,897	07-2005	Shuster et al.	-----	-----	-----	
	6,937,699	08-2005	Shuster et al.	-----	-----	-----	
	6,956,941	10-2005	Duncan et al.	-----	-----	-----	

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATI YE	NO
	DE19813179	09-1999	DE	-----	-----	X	
	EP0578374	01-1994	EP	-----	-----		
	EP0704788	04-1996	EP	-----	-----		
	EP0738093	10-1996	EP	-----	-----		
	EP0858202	08-1998	EP	-----	-----		
	EP0869688	10-1998	EP	-----	-----		
	EP0881848	12-1998	EP	-----	-----		
	EP0898431	02-1999	EP	-----	-----		
	EP0918423	10-1998	EP	-----	-----		
	WO/0184859	11-2001	WO	-----	-----		
	WO01/024496	04-2001	WO	-----	-----		
	WO01/024498	04-2001	WO	-----	-----		
	WO01/024500	04-2001	WO	-----	-----		
	WO01/024501	04-2001	WO	-----	-----		

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	WO01/024502	04-2001	WO	-----	-----			
	WO01/024503	04-2001	WO	-----	-----			
	WO01/05078	01-2001	WO	-----	-----			
	WO94/05111	03-1994	WO	-----	-----			
	WO95/34985	12-1995	WO	-----	-----			
	WO97/31492	08-1997	WO	-----	-----			
	WO97/33421	09-1997	WO	-----	-----			
	WO97/44943	11-1997	WO	-----	-----			
	WO98/00988	01-1998	WO	-----	-----			
	WO98/04065	01-1998	WO	-----	-----			
	WO98/10538	03-1998	WO	-----	-----			
	WO98/16051	04-1998	WO	-----	-----			
	WO98/21911	05-1998	WO	-----	-----			
	WO98/30008	07-1998	WO	-----	-----			
	WO98/37665	08-1998	WO	-----	-----			
	WO99/12365	03-1999	WO	-----	-----			
	WO99/19988	04-1999	WO	-----	-----			
	WO99/20059	04-1999	WO	-----	-----			
	WO99/35802	07-1999	WO	-----	-----			
	WO99/45687	09-1999	WO	-----	-----			

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
EXAMINER INITIAL		
	1	RFC 3298 Service in the PSTN, August 2002
	2	Implementing Automatic Location Update for Follow-Me database using VoIP and Bluetooth Technologies, IEEE Transaction on computers, Vol. 51, No. 10, October 2002
	3	New services demand integration, Electronic Engineering Times, Aug. 28, 2000, Iss. 1128; pg. 110
	4	Natural Microsystems, M2 Presswire. Coventry: Aug, 18, 2000
	5	This pipe dream will come true: Voice Over Internet Protocol (VoIP) technology will make the phone Box something that really talks, Businessline, Chennai: Apr 17, 2002
	6	Using Optimization to Achieve Efficient Quality of Service in Voice over IP Networks, IEEE 2003
	7	Broadsoft literature Broadworks overview, Copyright date 2002
	8	BroadSoft introduces industry's first complete service delivery and creation product suite for enhanced telephony services Broadworks, ATM Newsletter: Boston: March 2000, vol. 9, Iss. 3, pg 13
	9	BroadSoft unveils advanced architecture for the rapid and cost effective delivery of enhanced communications services, Website, August 25, 1999, Press releases, 3 pages.
	10	ADC Telecommunications; SS7 New Net SS7 Tutorial; Copyright 1999.
	11	Mary Carmichael, "Calls That Follow you Anywhere" Newsweek, April 28, 2003, page 43.
	12	European Search Report, 3 pages, from European Application No. 04252483.5 (EP Patent No. 1473947B1).
	13	U.S. patent application Ser. No. 09/406,322, Schuster et al., filed Sep. 27, 1999
	14	U.S. patent application Ser. No. 09/515,798, Schuster et al., filed Feb. 29, 2000

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	4,310,726	01-12-1982	Asmuth	179	18	02-04-1980	
	5,673,262	09-30-1997	Shimizu	370	395	11-07-1995	
	5,848,140	12-08-1998	Foladare et al.	379	201	12-29-1995	
	5,991,310	07-09-1997	Katko	370	522	07-09-1997	
	2007/0041526	02-2007	Hill et al.	379	88.21	10-27-2006	

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
EXAMINER INITIAL		
	1	Dowden, Douglas C., et al., "The Future of Network-Provided Communications Services," <i>Bell Labs Technical Journal</i> , July-September 2000, pp. 3-10
	2	Foard, C.F., "Teaming Switches and Computers for Customer Applications," <i>AT&T Technology</i> , 1991; 6, 4; Research Library, pp. 32-38
	3	Foster, Robin Harris, "Computer-Telephone Integration Goes Global," <i>AT&T Technology</i> , Autumn 1995; 10, 3; Research Library, pp. 18-22
	4	Kozik, Jack, et al., "On Opening PSTN to Enhanced Voice/Data Services - The PINT Protocol Solution," <i>Bell Labs Technical Journal</i> , July-September 2000, pp. 153-165
	5	Lui, Anthony Y., et al., "The Enhanced Service Manager: A Service Management System for Next-Generation Networks," <i>Bell Labs Technical Journal</i> , July-September 2000, pp. 130-144
	6	Reisfield, E.S., "Customers Take Control of the AT&T Network," <i>AT&T Technology</i> , 1991; 6, 1; Research Library, pp. 44-48
	7	Sijben, Paul G., et al., "Bridging the Gap to IP Telephony," <i>Bell Labs Technical Journal</i> , October-December 1998, pp. 192-207

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE	
	2004/0240657 A1	12-02-2004	Camarillo	379	221.02	-----	
	2004/0264673 A1	12-30-2004	Novack	379	221.11	-----	
	5,469,500	11-21-1995	Satter et al.	379	201	-----	
	6,327,258	12-04-2001	Deschaine et al.	370	356	-----	
	6,643,282	11-04-2003	Christie	370	352	-----	
	7,123,708	10-17-2006	Gavillet	379	219	-----	
	7,242,759	07-10-2007	Sanchez et al.	379	219	-----	
	7,436,851	10-14-2008	Chambers et al.	370	325	-----	

FOREIGN PATENT DOCUMENTS							
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						YE	NO

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:)	Customer No.:	49,637
)		
Samuel F. WOOD, et al.	)	Confirmation No.:	4568
)		
Serial No.:	)	Group Art Unit:	2614
11/428,825)		
	)	Examiner:	Al Anbaidi, Rasha S.
Filed:)		
July 5, 2006	)	Docket No.:	TLM-103.CICON3
)		
For: TANDEM ACCESS CONTROLLER)		
WITHIN THE PUBLIC SWITCHED)		
TELEPHONE NETWORK)		

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. 1.97(b)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with the duty of disclosure under 37 CFR § 1.56, 37 CFR §§ 1.97, and 1.98, Applicants bring the following documents, of possible interest to the subject matter of this application, to the attention of the Examiner. Each of these documents is listed on the attached form PTO-1449. Applicants are providing copies of the listed documents, except for U.S. patents and U.S. patent publication applications. In the event the Examiner would like copies of the U.S. patents and published applications as well, the Examiner is requested to advise the undersigned. Applicants respectfully request the Examiner to consider and make these documents of record with respect to this application. In addition, for the Examiner's convenience, Applicants are providing below comments on select references. The Examiner is requested to make an independent determination on the relevance of the documents.

Application No.: 11/428,825

1. RFC 3298 Service in the PSTN:

This document describes protocols for use in an internet or other intelligent network (PSTN/IN). The protocols that are described are for use to optimize the network. This document also discloses "features" such as "call forwarding" that can be applied within a network, however, with modifications to the existing networks and limited routing only within a local geographic area. Moreover, this document does not disclose web-based access by subscribers to request features, nor first call and second functionalities.

2. Implementing Automatic Location Update for Follow-Me Database Using VoIP and Bluetooth Technologies

This document discloses a particular method of using databases in a VoIP network to enable a user to request call features such as "follow-me" using VoIP and Bluetooth technologies. Again, this document describes "features," but via a method that requires modifications to the existing networks and limited routing only within a local geographic area. Again, this document does not disclose web-based access by subscribers to request features, nor first call and second functionalities.

3. New Services Demand Integration

This document recognizes that networks, such as the public switched telephone network (PSTN) and the internet (packet-based) networks are fast converging and that the new emerging networks will require new services to facilitate user interfaces. It should be noted that the document publication is after Applicants' priority date (parent patent no. 6,574,328, filed on May 2000). This document is of background interest only and does not address application of "features," via web access or otherwise, nor first call and second functionalities.

4. Natural Microsystems

This document describes the SS7 software product that natural Microsystems introduced to the market. SS7 is a standard protocol used in the PSTN for signaling call management within the network. SS7 was widely known and used by carriers in the PSTN to perform circuit switching operations. Applicants' parent patent no. 6,574,328, filed on May 2000, describes the SS7 protocol.

Application No.: 11/428,825

The document is of background interest only and does not address application of "features," via web access or otherwise, nor first call and second functionalities.

5. Voice Over Internet Protocol (VoIP) Technology will Make the Phone Box Something That Really Talks

This document describes the advantages of VoIP and VoIP telephones that will make new technologies available to telephone users and the advantages of VoIP. The document is of background interest only and does not address application of "features," via web access or otherwise, nor first call and second functionalities.

6. Using Optimization to Achieve Efficient Quality of Service in Voice Over IP Networks

This document recognizes the need for improved quality service in VoIP networks. As recognized in Applicants' parent disclosure, VoIP's quality of service ("QoS") was less than the quality of the PSTN networks. The document is of background interest only and does not address application of "features," via web access or otherwise, nor first call and second functionalities.

7. Broadsoft Literature Broadworks Overview

This document describes Broadworks, a product that consists of software modules, which may be integrated into a hardware platform such as the Sun Solaris Network Platform for use at call centers and other such large enterprises. Broadworks discloses a system for adding "call features" to an existing Class 5¹ and packet networks. Broadworks discloses a set of tools that can be used to

¹ Dictionary definitions, "Newton's Telecom Dictionary," 15th Edition, February 1999, ISBN Number 1-57820-001-8

Class 4 Office

The fourth level in AT&T's long distance toll switching hierarchy -- the major switching center to which toll calls from Class 5 offices are sent. In U.S. common carrier telephony service, a toll center designated "Class 4C" is an office where assistance in completing incoming calls is provided in addition to other traffic. A toll center designated "Class 4F" is an office where operators handle only outbound calls, or where switching is performed without operator assistance.

Class 5 Office

An end office. Your local central office. The lowest level in the hierarchy of local and long distance switching which AT&T set up when it was "The Bell System." A class 5 office is a local Central Office that serves as a network entry point for station loops and certain special-service lines. Also called an End Office. Classes 1, 2, 3, and 4 are toll offices in the telephone network.

See also, Engineering and Operations in the Bell system, Second edition, 1977,1983, Bell telephone Laboratories.

Application No.: 11/428,825

replace the existing Class 5 central office switches. This document discloses a web-based interface to provide users access, and "call features," but proposes an implementation (via replacement of the existing edge switch) and therefore, does not accommodate the existing network infrastructure. Moreover, the features are limited to a local geographic area because of the implementation via the edge switch and there are no first call and second call functionalities. It should be noted that this document antedates Applicants' parent patent no. 6,574,328, which has a priority date of May 2000.

8. BroadSoft Introduces Industry's First Complete Service Delivery and Creation Product Suite for Enhanced Telephony Services Broadworks

This document discloses a system for integrating services that are web-enabled and offer specific features such as group directories, call forwarding, option configurations, in to the PSTN and packet (VoIP) networks. The system disclosed is web-enabled and offers specific features such as group directories, call forwarding, option configuration, messaging, and auto attendant services. However, these features are implemented in a different way, by requiring replacement of the existing edge switch with a Broadsoft switch (unlike Applicants' implementation, which works with the existing edge switch). Again, the features are limited to a local geographic area and there are no first call and second call functionalities.

9. Broadsoft Unveils Advanced Architecture for the Rapid and Cost Effective Delivery of Enhanced Communications Services

This article discloses a set of software tools for building a processing platform directed to a VoIP implementation. This document discloses a system for integrating services for packet (VoIP) networks. The system disclosed is web enabled and offers features such as group directories, call forwarding, option configuration, messaging, and auto attendant services. However, these features are implemented in a different way, by requiring replacement of the existing edge switch with a Broadsoft switch (unlike Applicants' implementation, which works with the existing edge switch). Again, the features are limited to a local geographic area and there are no first call and second call functionalities.

e.g. Section 4 Network and Systems, Network Structures and Planning,
also See index under Electronic Switching system(s)

Application No.: 11/428,825

10. U.S. Patent No. 6853714 to Liljestrand

This patent is directed to an apparatus and method for enhanced telecommunication services. This patent discloses another VoIP approach to changing the network on a large scale. It proposes an upgrade to the existing carriers' equipment and network architecture. The patent merely mentions the possibility of web access, but does not disclose how to accomplish it, and does not disclose first call and second call functionalities.

11. U.S. Patent No. 4,348,554, U.S. Patent No. 4,611,094 & U.S. Patent No. 4,611,096 to Asmuth

The Asmuth patents disclose a system and method to upgrade the architecture and infrastructure of the public switched network (PSTN) to enable the system to direct telephone calls to a selected group of customers with decisions controlled by the carrier. These patents also do not address web access application of features by subscribers, nor application of features in the entire fabric of networks, or first call and second call functionalities.

Finally, Applicants bring their related patents and applications to the Examiner's attention.

Patent or Application Number	Title	Filed	Docket Number
6529596	Web-Based Control of Telephone	5/4/00	TLM-101
6532288	Tandem Access Control Processor Connected to the Public Switched Telephone Network for Controlling Features	5/4/00	TLM-102
6574328	Telephone Call Control System for the Public Switched Telephone Network	5/4/00	TLM-103

Application No.: 11/428,825

Patent or Application Number	Title	Filed	Docket Number
7324635	Branch Calling and Caller ID Based Call Routing Telephone Features	4/30/03	TLM-103C1
7587036	Tandem Access Controller Within the Public Switched Telephone Network	7/5/06	TLM-103C1CON
11/428,822	Tandem Access Controller Within the Public Switched Telephone Network	10/26/06	TLM-103C1CON2
11/948,965	Branch Calling and Caller ID Based Call Routing and Telephone Features	3/27/08	TLM-103C1DIV

This Supplemental Information Disclosure Statement is timely submitted under 37 CFR § 1.97(b)(3), that is, before mailing of a first office action on the merits. Thus, no petition or fee is required at this time. If the U.S. Patent Office determines that a fee is necessary, this submission should be considered a petition, and the U.S. Patent Office is hereby authorized to charge any fee necessary to Deposit Account No. 50-3102 of Berry & Associates P.C.

Respectfully submitted,

Dated: February 17, 2010

By: /Reena Kuyper/
Reena Kuyper
Registration No. 33,830

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9229 Sunset Blvd., Suite 630
Los Angeles, California 90069
(310) 247-2860
Customer No. 49,637

STU

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Applicant(s): Samuel F. Wood, Jerry A. Klein, Margaret Susan Asprey
 Assignee: Telemaze LLC
 Title: Tandem Access Controller Within the Public Switched Telephone Network
 Serial No.: 11/428,822 Filing Date: July 5, 2006
 Examiner: Not yet known Group Art Unit: 2614
 Docket No.: TEL-M-8801-1P-1C

San Jose, California
July 17, 2006

Mail Stop Amendment
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR § 1.97(b)**

Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the documents listed on the accompanying form PTO/SB/08A are called to the attention of the Examiner for the above patent application. Copies of the References are not included because they were cited in the parent application no. 10/426,279, filing date April 30, 2003.

1. A very large quantity of prior art is cited in the PTO/SB/08A form (formerly PTO 1449) because the present invention is related to the invention in U.S. Patent 6,614,781 to Elliot, and the identified prior art is copied from the "References Cited" section of that patent. There is no other reason for why the Applicants believe the identified art is material to the present claims. Only a few of the prior art documents are discussed below.

2. Various prior art documents describe systems in which telephone features are only applied once a call reaches the called party's central office. In contrast, Applicants' claims specify that the telephone features are applied before the call reaches the terminating central office. This provides various important advantages, discussed in the application. Other distinguishing aspects of the claims also exist.


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3. U.S. Patent 6,614,781 to Elliot discloses a method of implementing a telephone feature that requires a change, modification, or enhancement to the software of the central office of the PSTN. To use the features offered by the Elliot '781 patent, the call must reach the central office offering the feature.
4. U.S. Patents 6,445,694 and 6,785,266 to Swartz disclose methods to provide telephone features, where the processing that provides the features occurs outside of the PSTN.
5. U.S. Patent 6,094,478 to Shepherd describes a processor for providing features, where the processor is located at the terminating central office.
6. U.S. Patent 6,853,714 to Liljestrand is similar to the Shepherd patent in that the processing for providing telephone features occurs at the central office.


Citation of these documents shall not be construed as:

1. an admission that the documents are necessarily prior art with respect to the instant invention;
2. a representation that a search has been made; or
3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

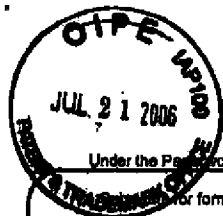
I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

 2/12/06
Attorney for Applicant(s) Date

Respectfully submitted,


Brian D. Oganowsky
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PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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<p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)</p> <p>Sheet <u>1</u> of <u>22</u></p>	Complete if Known		
	Application Number	11/428,822	
	Filing Date	July 5, 2006	
	First Named Inventor	Samuel F. Wood	
	Art Unit	2614	
	Examiner Name	Not yet known	
		Attorney Docket Number	TEL-M-8801-1P-1C

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)	MM-DD-YYYY		
		US- 4100377	Jul., 1978	Flanagan	
		US- 4238851	Dec., 1980	Takahashi et al.	
		US- 4569041	Feb., 1986	Takeuchi et al.	
		US- 4608685	Aug., 1986	Jain et al.	
		US- 4630260	Dec., 1986	Toy et al.	
		US- 4630262	Dec., 1986	Callans et al.	
		US- 4661947	Apr., 1987	Lea et al.	
		US- 4674082	Jun., 1987	Flanagin et al.	
		US- 4679190	Jul., 1987	Dias et al.	
		US- 4679191	Jul., 1987	Nelson et al.	
		US- 4707831	Nov., 1987	Weir, deceased et al.	
		US- 4715026	Dec., 1987	Eberspaecher	
		US- 4723238	Feb., 1988	Isreal et al.	
		US- 4757497	Jul., 1988	Beierle et al.	
		US- 4761779	Aug., 1988	Nara et al.	
		US- 4771425	Sep., 1988	Baran et al.	
		US- 4815071	Mar., 1989	Shimizu	
		US- 4819228	Apr., 1989	Baran et al.	
		US- 4862451	Aug., 1989	Closs et al.	

FOREIGN PATENT DOCUMENTS						
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY			

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This collection of information is required by 37 CFR 1.87 and 1.88. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	11/428,822
		Filing Date	July 5, 2006
		First Named Inventor	Samuel F. Wood
		Art Unit	2614
		Examiner Name	Not yet known
Sheet 2 of 22	Attorney Docket Number	TEL-M-8801-1P-1C	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 4866704	Sep., 1989	Bergman	
		US- 4872159	Oct., 1989	Hemmady et al.	
		US- 4872160	Oct., 1989	Hemmady et al.	
		US- 4885739	Dec., 1989	Read et al.	
		US- 4903261	Feb., 1990	Baran et al.	
		US- 4926416	May., 1990	Weik	
		US- 4932022	Jun., 1990	Kaeney et al.	
		US- 4933931	Jun., 1990	Kokubo	
		US- 4953158	Aug., 1990	Schreur	
		US- 4958341	Sep., 1990	Hemmady et al.	
		US- 4962497	Oct., 1990	Ferenc et al.	
		US- 4969184	Nov., 1990	Gordon et al.	
		US- 4970721	Nov., 1990	Aczel et al.	
		US- 4975695	Dec., 1990	Almond et al.	
		US- 4996685	Feb., 1991	Farese et al.	
		US- 5008929	Apr., 1991	Olsen et al.	
		US- 5014266	May., 1991	Bales et al.	
		US- 5018136	May., 1991	Goßub	
		US- 5020058	May., 1991	Holden et al.	

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	Application Number	11/428,822
	Filing Date	July 5, 2006
	First Named Inventor	Samuel F. Wood
	Art Unit	2614
	Examiner Name	Not yet known
Sheet 3 of 22	Attorney Docket Number	TEL-M-8801-1P-1C

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 5022071	Jun., 1991	Mozar et al.	
		US- 5048081	Sep., 1991	Gavaras et al.	
		US- 5051983	Sep., 1991	Kemmerl	
		US- 5093827	Mar., 1992	Franklin et al.	
		US- 5115431	May., 1992	Williams et al.	
		US- 5150357	Sep., 1992	Hopner et al.	
		US- 5157662	Oct., 1992	Tadamura et al.	
		US- 5197067	Mar., 1993	Fujimoto et al.	
		US- 5208806	May., 1993	Hasegawa	
		US- 5218602	Jun., 1993	Grant et al.	
		US- 5231633	Jul., 1993	Hluchyj et al.	
		US- 4926416	May., 1990	Weik	
		US- 4932022	Jun., 1990	Keeney et al.	
		US- 4933931	Jun., 1990	Kokubo	
		US- 5241588	Aug., 1993	Babson, III et al.	
		US- 5247571	Sep., 1993	Kay et al.	
		US- 5268900	Dec., 1993	Hluchyj et al.	
		US- 5274635	Dec., 1993	Rahman et al.	
		US- 5291489	Mar., 1994	Morgan et al.	

FOREIGN PATENT DOCUMENTS						
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

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Substitute for form 1449/PTO <h2 style="text-align: center; margin: 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center; font-size: small;">(Use as many sheets as necessary)</p>	<h3 style="text-align: center; margin: 0;">Complete if Known</h3> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>11/428,822</td> </tr> <tr> <td>Filing Date</td> <td>July 5, 2006</td> </tr> <tr> <td>First Named Inventor</td> <td>Samuel F. Wood</td> </tr> <tr> <td>Art Unit</td> <td>2614</td> </tr> <tr> <td>Examiner Name</td> <td>Not yet known</td> </tr> <tr> <td>Attorney Docket Number</td> <td>TEL-M-8801-1P-1C</td> </tr> </table>	Application Number	11/428,822	Filing Date	July 5, 2006	First Named Inventor	Samuel F. Wood	Art Unit	2614	Examiner Name	Not yet known	Attorney Docket Number	TEL-M-8801-1P-1C
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Art Unit	2614												
Examiner Name	Not yet known												
Attorney Docket Number	TEL-M-8801-1P-1C												
Sheet 4 of 22													

U. S. PATENT DOCUMENTS					
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		Number-Kind Code ² (if known)			
		US- 5301189	Apr., 1994	Schmidt et al.	
		US- 5305308	Apr., 1994	English et al.	
		US- 5327428	Jul., 1994	Van As et al.	
		US- 5341374	Aug., 1994	Lewen et al.	
		US- 5351276	Sep., 1994	Doll, Jr. et al.	
		US- 5351286	Sep., 1994	Nici	
		US- 5353283	Oct., 1994	Tsuchiya	
		US- 5359598	Oct., 1994	Stegall et al.	
		US- 5365521	Nov., 1994	Ohnishi et al.	
		US- 5379293	Jan., 1995	Kanno et al.	
		US- 5381405	Jan., 1995	Daugherty et al.	
		US- 5381466	Jan., 1995	Shibayama et al.	
		US- 5383183	Jan., 1995	Yoshida	
		US- 5384840	Jan., 1995	Blatchford et al.	
		US- 5390184	Feb., 1995	Morris	
		US- 5396491	Mar., 1995	Newman	
		US- 5420858	May., 1995	Marshall et al.	
		US- 5422882	Jun., 1995	Hiller et al.	
		US- 5423003	Jun., 1995	Berteau	

FOREIGN PATENT DOCUMENTS						
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Substitute for form 1449/PTO <h2 style="text-align: center; margin: 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center; font-size: small;">(Use as many sheets as necessary)</p>	<h3 style="text-align: center; margin: 0;">Complete if Known</h3> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>11/428,822</td> </tr> <tr> <td>Filing Date</td> <td>July 5, 2006</td> </tr> <tr> <td>First Named Inventor</td> <td>Samuel F. Wood</td> </tr> <tr> <td>Art Unit</td> <td>2614</td> </tr> <tr> <td>Examiner Name</td> <td>Not yet known</td> </tr> <tr> <td>Attorney Docket Number</td> <td>TEL-M-8801-1P-1C</td> </tr> </table>	Application Number	11/428,822	Filing Date	July 5, 2006	First Named Inventor	Samuel F. Wood	Art Unit	2614	Examiner Name	Not yet known	Attorney Docket Number	TEL-M-8801-1P-1C
Application Number	11/428,822												
Filing Date	July 5, 2006												
First Named Inventor	Samuel F. Wood												
Art Unit	2614												
Examiner Name	Not yet known												
Attorney Docket Number	TEL-M-8801-1P-1C												
Sheet <u>5</u> of <u>22</u>													

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number <small>Number-Kind Code² (if known)</small>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 5426636	Jun., 1995	Hiller et al.	
		US- 5428607	Jun., 1995	Hiller et al.	
		US- 5428616	Jun., 1995	Field et al.	
		US- 5430719	Jul., 1995	Weisser, Jr.	
		US- 5434913	Jul., 1995	Tung et al.	
		US- 5436898	Jul., 1995	Bowen et al.	
		US- 5438614	Aug., 1995	Rozman et al.	
		US- 5444709	Aug., 1995	Riddle	
		US- 5452289	Sep., 1995	Sharma et al.	
		US- 5453986	Sep., 1995	Davis et al.	
		US- 5457684	Oct., 1995	Bharucha et al.	
		US- 5471470	Nov., 1995	Sharma et al.	
		US- 5479411	Dec., 1995	Klein	
		US- 5485457	Jan., 1996	Aramaki	
		US- 5521914	May., 1996	Mavraganis et al.	
		US- 5526353	Jun., 1996	Henley et al.	
		US- 5537403	Jul., 1996	Cloonan et al.	
		US- 5541917	Jul., 1996	Farris	
		US- 5544161	Aug., 1996	Bigham et al.	

FOREIGN PATENT DOCUMENTS						
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	Application Number	11/428,822
	Filing Date	July 5, 2006
	First Named Inventor	Samuel F. Wood
	Art Unit	2614
	Examiner Name	Not yet known
Sheet 6 of 22	Attorney Docket Number	TEL-M-8801-1P-1C

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		Number-Kind Code ² (if known)			
		US- 5544163	Aug., 1996	Madonna	
		US- 5544164	Aug., 1996	Baran	
		US- 5544168	Aug., 1996	Jeffrey et al.	
		US- 5553063	Sep., 1996	Dickson	
		US- 5568475	Oct., 1996	Doshi et al.	
		US- 5570355	Oct., 1996	Dall et al.	
		US- 5572583	Nov., 1996	Wheeler, Jr. et al.	
		US- 5577038	Nov., 1996	Miyahara	
		US- 5577041	Nov., 1996	Sharma et al.	
		US- 5579308	Nov., 1996	Humpleman	
		US- 5590181	Dec., 1996	Hogan et al.	
		US- 5592477	Jan., 1997	Farris et al.	
		US- 5592538	Jan., 1997	Kosowsky et al.	
		US- 5594732	Jan., 1997	Bell et al.	
		US- 5600643	Feb., 1997	Robrock, II	
		US- 5600649	Feb., 1997	Sharma et al.	
		US- 5602991	Feb., 1997	Berteau	
		US- 5604737	Feb., 1997	Iwami et al.	
		US- 5608786	Mar., 1997	Gordon	

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Sheet <u>7</u> of <u>22</u>	Attorney Docket Number	TEL-M-8801-1P-1C

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		Number-Kind Code ² (if known)			
		US- 5613069	Mar., 1997	Walker	
		US- H1641	Apr., 1997	Sharman	
		US- 5621727	Apr., 1997	Vaudreuil	
		US- 5625677	Apr., 1997	Felertag et al.	
		US- 5631897	May., 1997	Pacheco et al.	
		US- 5640446	Jun., 1997	Everett et al.	
		US- 5650999	Jul., 1997	Dickson	
		US- 5654957	Aug., 1997	Koyama	
		US- 5659541	Aug., 1997	Chan	
		US- 5659542	Aug., 1997	Bell et al.	
		US- 5680437	Oct., 1997	Segal	
		US- 5684799	Nov., 1997	Bigham et al.	
		US- 5689553	Nov., 1997	Ahuja et al.	
		US- 5692126	Nov., 1997	Templeton et al.	
		US- 5701301	Dec., 1997	Weisser, Jr.	
		US- 5706286	Jan., 1998	Reiman et al.	
		US- 5710769	Jan., 1998	Anderson et al.	
		US- 5712903	Jan., 1998	Bartholomew et al.	
		US- 5712908	Jan., 1998	Brinkman et al.	

FOREIGN PATENT DOCUMENTS						
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Sheet 8	of 22		

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		US-	5724412	Mar., 1998	Srinivasan	
		US-	5729544	Mar., 1998	Lev et al.	
		US-	5732078	Mar., 1998	Arango	
		US-	5737320	Apr., 1998	Madonna	
		US-	5737331	Apr., 1998	Hoppal et al.	
		US-	5737333	Apr., 1998	Civanlar et al.	
		US-	5740164	Apr., 1998	Liron	
		US-	5740231	Apr., 1998	Cohn et al.	
		US-	5742598	Apr., 1998	Baratz et al.	
		US-	5751706	May., 1998	Land et al.	
		US-	5751968	May., 1998	Cohen	
		US-	5754641	May., 1998	Voit et al.	
		US-	5764628	Jun., 1998	Davis et al.	
		US-	5764736	Jun., 1998	Shachar et al.	
		US-	5764750	Jun., 1998	Chau et al.	
		US-	5764756	Jun., 1998	Onweller	
		US-	5777991	Jul., 1998	Adachi et al.	
		US-	5790538	Aug., 1998	Sugar	
		US-	5793762	Aug., 1998	Penners et al.	

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	First Named Inventor	Samuel F. Wood
	Art Unit	2614
	Examiner Name	Not yet known
Attorney Docket Number	TEL-M-8801-1P-1C	
Sheet 9 of 22		

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		Number-Kind Code ² (if known)			
		US- 5793771	Aug., 1998	Darland et al.	
		US- 5799154	Aug., 1998	Kurtyan	
		US- 5805587	Sep., 1998	Norris et al.	
		US- 5805588	Sep., 1998	Petersen	
		US- 5809022	Sep., 1998	Byers et al.	
		US- 5809128	Sep., 1998	McMullin	
		US- 5812534	Sep., 1998	Davis et al.	
		US- 5815505	Sep., 1998	Mills	
		US- 5818912	Oct., 1998	Hammond	
		US- 5825771	Oct., 1998	Cohen et al.	
		US- 5828666	Oct., 1998	Focsaneanu et al.	
		US- 5838665	Nov., 1998	Kahn et al.	
		US- 5867494	Feb., 1999	Krishnaswamy et al.	
		US- 5867495	Feb., 1999	Elliott et al.	
		US- 5881060	Mar., 1999	Morrow et al.	
		US- 5881131	Mar., 1999	Farris et al.	
		US- 5889774	Mar., 1999	Mirashrafi et al.	
		US- 5915008	Jun., 1999	Dulman	
		US- 5922047	Jul., 1999	Newlin et al.	

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STATEMENT BY APPLICANT**

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Application Number	11/428,822
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Art Unit	2614
Examiner Name	Not yet known
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		US- 5933490	Aug., 1999	White et al.	
		US- 5954799	Sep., 1999	Goheen et al.	
		US- 5963551	Oct., 1999	Minko	
		US- 5991291	Nov., 1999	Asai et al.	
		US- 5999525	Dec., 1999	Krishnaswamy et al.	
		US- 6009469	Dec., 1999	Mattaway et al.	
		US- 6026083	Feb., 2000	Albrow et al.	
		US- 6068890	May., 2000	White et al.	
		US- 6134235	Oct., 2000	Goldman et al.	
		US- 6278707	Aug., 2001	MacMillan et al.	
		US- 6324183	Nov., 2001	Miller et al.	
		US- 6327258	Dec., 2001	Deschaine et al.	
		US- 6339594	Jan., 2002	Civanlar et al.	
		US- 5946684	Aug., 1999	Lund	
		US- 6094478	Jul., 2000	Shepherd et al.	
		US- 6028917	Feb., 2000	Creamer et al.	
		US- 6104800	Aug., 2000	Benson	
		US- 6078581	Jun., 2000	Shtivelman et al.	
		US- 6259692	Jul., 2001	Shtivelman et al.	

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		US- 6014437	Jan., 2000	Acker et al.	
		US- 5799072	Aug., 1998	Vulcan et al.	
		US- 5946386	Aug., 1999	Rogers et al.	
		US- 6005870	Dec., 1999	Leung et al.	
		US- 6161128	Dec. 2000	Smyk	
		US- 6614781	Sep., 2003	Elliott et al.	
		US-			
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁴
		Country Code ² Number ³ Kind Code ⁵ (if known)				

Examiner Signature	Date Considered
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<p style="text-align: center;">Substitute for form 1449/PTO</p> <p style="text-align: center; font-size: 1.2em;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p style="text-align: center;">(Use as many sheets as necessary)</p> <p>Sheet 12 of 22</p>	<p style="text-align: center;">Complete if Known</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Application Number</td> <td>11/428,822</td> </tr> <tr> <td>Filing Date</td> <td>July 5, 2006</td> </tr> <tr> <td>First Named Inventor</td> <td>Samuel F. Wood</td> </tr> <tr> <td>Art Unit</td> <td>2614</td> </tr> <tr> <td>Examiner Name</td> <td>Not yet known</td> </tr> <tr> <td>Attorney Docket Number</td> <td>TEL-M-8801-1P-1C</td> </tr> </table>	Application Number	11/428,822	Filing Date	July 5, 2006	First Named Inventor	Samuel F. Wood	Art Unit	2614	Examiner Name	Not yet known	Attorney Docket Number	TEL-M-8801-1P-1C
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		Country Code ² Number ³ Kind Code ⁵ (if known)				
		EP 0 789 470	Aug., 1997			
		EP 0 794 650	Sep., 1997			
		EP 0 797 373	Sep., 1997			
		EP 0 824 298	Feb., 1998			
		EP 0 829 995	Mar., 1998			
		EP 0 841 831	May., 1998			

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet **13** of **22**

Complete if Known

Application Number	11/428,822
Filing Date	July 5, 2006
First Named Inventor	Samuel F. Wood
Art Unit	2614
Examiner Name	Not yet known
Attorney Docket Number	TEL-M-8801-1P-1C

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Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ² Number ³ Kind Code ⁴ (if known)					
		EP 0 847 176		Jun., 1998			
		EP 0 866 596		Sep., 1998			
		EP 0 872 998		Oct., 1998			
		GB 2 315 190		Jan., 1998			
		JP 10-23067		Jan., 1998			
		JP 10-51453		Feb., 1998			

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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	11/428,822
		Filing Date	July 5, 2006
		First Named Inventor	Samuel F. Wood
		Art Unit	2614
		Examiner Name	Not yet known
		Attorney Docket Number	TEL-M-8801-1P-1C
Sheet	14	of	22

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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		JP 10-164135	Jun., 1998			
		JP 10-164257	Jun., 1998			
		WO 96/08935	Mar., 1996			
		WO 96/15598	May., 1996			
		WO 97/14238	Apr., 1997			
		WO 97/14234 A2	Apr., 1997			

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	11/428,822
		Filing Date	July 5, 2006
		First Named Inventor	Samuel F. Wood
		Art Unit	2614
		Examiner Name	Not yet known
		Attorney Docket Number	TEL-M-8801-1P-1C
Sheet 15	of 22		

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY			
		WO 97/16007	May., 1997			
		WO 97/22216	Jun., 1997			
		WO 97/23078	Jun., 1997			
		WO 97/27692	Jul., 1997			
		WO 97/28628	Aug., 1997			
		WO 97/29581	Aug., 1997			

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First Named inventor	Samuel F. Wood												
Art Unit	2614												
Examiner Name	Not yet known												
Attorney Docket Number	TEL-M-8801-1P-1C												
Sheet 16 of 22													

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Document Number Number-Kind Code‡ (§ 1.52)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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		WO 97/31492	Aug., 1997			
		WO 97/33412	Sep., 1997			
		WO 97/38551	Oct., 1997			
		WO 97/39560	Oct., 1997			
		WO 97/38511 A2	Oct., 1997			
		WO 97/47118	Dec., 1997			

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		Country Code ² * Number ³ * Kind Code ³ (if known)				
		WO 97/50217	Dec., 1997			
		WO 97/50271	Dec., 1997			
		WO 97/46073 A2	Dec., 1997			
		WO 97/50277 A2	Dec., 1997			
		WO 98/04989	Feb., 1998			
		WO 98/11704	Mar., 1998			

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Substitute for form 1449/PTO <div style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</div> <p style="text-align: center;"><i>(Use as many sheets as necessary)</i></p>	<div style="text-align: center;">Complete if Known</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%;">Application Number</td><td>11/428,822</td></tr> <tr><td>Filing Date</td><td>July 5, 2006</td></tr> <tr><td>First Named Inventor</td><td>Samuel F. Wood</td></tr> <tr><td>Art Unit</td><td>2614</td></tr> <tr><td>Examiner Name</td><td>Not yet known</td></tr> <tr><td>Attorney Docket Number</td><td>TEL-M-8801-1P-1C</td></tr> </table>	Application Number	11/428,822	Filing Date	July 5, 2006	First Named Inventor	Samuel F. Wood	Art Unit	2614	Examiner Name	Not yet known	Attorney Docket Number	TEL-M-8801-1P-1C
Application Number	11/428,822												
Filing Date	July 5, 2006												
First Named Inventor	Samuel F. Wood												
Art Unit	2614												
Examiner Name	Not yet known												
Attorney Docket Number	TEL-M-8801-1P-1C												
Sheet 18 of 22													

U. S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
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		US-				
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FOREIGN PATENT DOCUMENTS							
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁴
		Country Code ² Number ³ Kind Code ³ (if known)					
		Wo	98/12860	Mar., 1998			
		WO	98/13974	Apr., 1998			
		WO	98/18238	Apr., 1998			
		WO	98/18289	Apr., 1998			
		WO	98/19425	May., 1998			
		WO	98/19445	May., 1998			

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>	Complete if Known	
	Application Number	11/428,822
	Filing Date	July 5, 2006
	First Named Inventor	Samuel F. Wood
	Art Unit	2614
	Examiner Name	Not yet known
Sheet 19 of 22	Attorney Docket Number	TEL-M-8801-1P-1C

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² Number ³ Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁵
		WO 98/20701	May., 1998			
		WO 98/23067	May., 1998			
		WO 98/23080	May., 1998			
		WO 98/26543	Jun., 1998			
		WO 0 851 653	Jul., 1998			
		WO D 853 411 A2	Jul., 1998			

Examiner Signature	Date Considered
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Substitute for form 1449/PTO <h2 style="text-align: center; margin: 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center; font-size: small;">(Use as many sheets as necessary)</p>	<h3 style="text-align: center; margin: 0;">Complete if Known</h3> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>11/428,822</td> </tr> <tr> <td>Filing Date</td> <td>July 5, 2006</td> </tr> <tr> <td>First Named Inventor</td> <td>Samuel F. Wood</td> </tr> <tr> <td>Art Unit</td> <td>2614</td> </tr> <tr> <td>Examiner Name</td> <td>Not yet known</td> </tr> <tr> <td>Attorney Docket Number</td> <td>TEL-M-8801-1P-1C</td> </tr> </table>	Application Number	11/428,822	Filing Date	July 5, 2006	First Named Inventor	Samuel F. Wood	Art Unit	2614	Examiner Name	Not yet known	Attorney Docket Number	TEL-M-8801-1P-1C
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First Named Inventor	Samuel F. Wood												
Art Unit	2614												
Examiner Name	Not yet known												
Attorney Docket Number	TEL-M-8801-1P-1C												
Sheet 20 of 22													

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ² * Number ³ Kind Code ⁴ (if known)				
		WO 98/28885	Jul., 1998			
		WO 98/30007	Jul., 1998			
		WO 98/30008	Jul., 1998			
		WO 98/34391	Aug., 1998			
		WO 98/34399	Aug., 1998			
		WO 98/36543	Aug., 1998			

Examiner Signature	Date Considered
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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	11/428,822
		Filing Date	July 5, 2006
		First Named Inventor	Samuel F. Wood
		Art Unit	2614
		Examiner Name	Not yet known
Sheet 21	of 22	Attorney Docket Number	TEL-M-8801-1P-1C

U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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		WO	98/37665	Aug., 1998			
		WO	98/37688 A2	Aug., 1998			
		WO	98/39897	Sep., 1998			
		WO	98/42104	Sep., 1998			
		WO	98/42107	Sep., 1998			
		WO	98/42146	Sep., 1998			

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	Filing Date	July 5, 2006
	First Named Inventor	Samuel F. Wood
	Art Unit	2814
	Examiner Name	Not yet known
Attorney Docket Number	TEL-M-8801-1P-1C	
Sheet 22 of 22		

U. S. PATENT DOCUMENTS					
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		Country Code ² Number ⁴ Kind Code ⁵ (if known)				
		WO 98/47256 A2	Oct., 1998			
		WO 98/51063	Nov., 1998			

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Electronic Acknowledgement Receipt

EFS ID:	12929875
Application Number:	13358353
International Application Number:	
Confirmation Number:	7896
Title of Invention:	Tandem Access Controller Within The Public Switched Telephone Network
First Named Inventor/Applicant Name:	Samuel F. Wood
Customer Number:	26379
Filer:	Alan A. Limbach
Filer Authorized By:	
Attorney Docket Number:	357323-990127
Receipt Date:	04-JUN-2012
Filing Date:	25-JAN-2012
Time Stamp:	18:33:35
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	Telemaze990127IDS.pdf	1502870 <small>a2b4d0d7010a36dc1d6f3638576937a1d13f76a4</small>	no	43

Warnings:

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National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

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Table with 4 columns: APPLICATION NUMBER (13/358,353), FILING OR 371(C) DATE (01/25/2012), FIRST NAMED APPLICANT (Samuel F. Wood), ATTY. DOCKET NO./TITLE (357323-990127)

CONFIRMATION NO. 7896

PUBLICATION NOTICE

26379
DLA PIPER LLP (US)
2000 UNIVERSITY AVENUE
EAST PALO ALTO, CA 94303-2248



Title:Tandem Access Controller Within The Public Switched Telephone Network

Publication No.US-2012-0120853-A1

Publication Date:05/17/2012

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

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In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently http://pair.uspto.gov/. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

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Table with 7 columns: APPLICATION NUMBER, FILING or 371(c) DATE, GRP ART UNIT, FIL FEE REC'D, ATTY. DOCKET NO, TOT CLAIMS, IND CLAIMS. Row 1: 13/358,353, 01/25/2012, 2614, 560, 357323-990127, 21, 1

CONFIRMATION NO. 7896

26379
DLA PIPER LLP (US)
2000 UNIVERSITY AVENUE
EAST PALO ALTO, CA 94303-2248

FILING RECEIPT



Date Mailed: 02/10/2012

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections

Applicant(s)

Samuel F. Wood, Los Altos, CA;
Jerry A. Klein, Los Altos, CA;
Margaret Susan Asprey, Los Altos, CA;

Power of Attorney: The patent practitioners associated with Customer Number 26379

Domestic Priority data as claimed by applicant

This application is a CON of 11/428,822 07/05/2006
which is a CON of 10/426,279 04/30/2003 PAT 7324635
which is a CIP of 09/565,565 05/04/2000 PAT 6574328

Foreign Applications (You may be eligible to benefit from the Patent Prosecution Highway program at the USPTO. Please see http://www.uspto.gov for more information.)

If Required, Foreign Filing License Granted: 02/06/2012

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is US 13/358,353

Projected Publication Date: 05/17/2012

Non-Publication Request: No

Early Publication Request: No

** SMALL ENTITY **

Title

Tandem Access Controller Within The Public Switched Telephone Network

Preliminary Class

379

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Title 37, Code of Federal Regulations, 5.11 & 5.15

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/358,353	01/25/2012	Samuel F. Wood	357323-990127

CONFIRMATION NO. 7896

POA ACCEPTANCE LETTER

26379
DLA PIPER LLP (US)
2000 UNIVERSITY AVENUE
EAST PALO ALTO, CA 94303-2248



Date Mailed: 02/10/2012

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 01/25/2012.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/yhailu/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number
13/358,353

APPLICATION AS FILED - PART I

(Column 1) (Column 2)

FOR	NUMBER FILED	NUMBER EXTRA
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A
TOTAL CLAIMS (37 CFR 1.16(j))	21 minus 20 = *	1
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1 minus 3 = *	
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).	
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))		

* If the difference in column 1 is less than zero, enter "0" in column 2.

SMALL ENTITY

RATE(\$)	FEE(\$)
N/A	95
N/A	310
N/A	125
x 30 =	30
x 125 =	0.00
	0.00
TOTAL	560

OR OTHER THAN SMALL ENTITY

RATE(\$)	FEE(\$)
N/A	
N/A	
N/A	
TOTAL	

APPLICATION AS AMENDED - PART II

(Column 1) (Column 2) (Column 3)

AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
	Total (37 CFR 1.16(i))	*	Minus	**	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=
	Application Size Fee (37 CFR 1.16(s))				
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					

SMALL ENTITY

RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
TOTAL ADD'L FEE	

OR OTHER THAN SMALL ENTITY

RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
TOTAL ADD'L FEE	

(Column 1) (Column 2) (Column 3)

AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
	Total (37 CFR 1.16(i))	*	Minus	**	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=
	Application Size Fee (37 CFR 1.16(s))				
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					

RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
TOTAL ADD'L FEE	

OR OTHER THAN SMALL ENTITY

RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
 ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
 *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
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UTILITY PATENT APPLICATION TRANSMITTAL <i>(Only for new nonprovisional applications under 37 CFR 1.53(b))</i>	Attorney Docket No.	357323-990127
	First Inventor	Samuel F. Wood
	Title	Tandem Access Controller Within The Public Switched Telephone Network
	Express Mail Label No.	VIA EMAIL

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450
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1. <input type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) 2. <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. 3. <input checked="" type="checkbox"/> Specification [Total Pages <u>27</u>] Both the claims and abstract must start on a new page (For information on the preferred arrangement, see MPEP 608.01(a)) 4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets <u>11</u>] 5. Oath or Declaration [Total Sheets <u>3</u>] a. <input type="checkbox"/> Newly executed (original or copy) b. <input checked="" type="checkbox"/> A copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76 7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (<i>Appendix</i>) <input type="checkbox"/> Landscape Table on CD 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, items a. - c. are required) a. <input type="checkbox"/> Computer Readable Form (CRF) b. Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> Paper c. <input type="checkbox"/> Statements verifying identity of above copies	ACCOMPANYING APPLICATION PARTS 9. <input type="checkbox"/> Assignment Papers (cover sheet & document(s)) Name of Assignee _____ 10. <input checked="" type="checkbox"/> 37 CFR 3.73(b) Statement <input checked="" type="checkbox"/> Power of Attorney (when there is an assignee) 11. <input type="checkbox"/> English Translation Document (if applicable) 12. <input type="checkbox"/> Information Disclosure Statement (PTO/SB/08 or PTO-1449) <input type="checkbox"/> Copies of citations attached 13. <input type="checkbox"/> Preliminary Amendment 14. <input type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent. 17. <input type="checkbox"/> Other: _____
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18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

Continuation Divisional Continuation-in-part (CIP) of prior application No.: 11/428,822

Prior application information: Examiner Rasha S. Al Aubaidi Art Unit: 2614

19. CORRESPONDENCE ADDRESS

The address associated with Customer Number 26379 OR Correspondence address below

Name		Address	
City	State	Zip Code	
Country	Telephone	Email	

Signature	/Alan A. Limbach/	Date	January 25, 2011
Name (Print/Type)	Alan A. Limbach	Registration No. (Attorney/Agent)	39,749

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
 If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	Tandem Access Controller Within The Public Switched Telephone Network
First Named Inventor/Applicant Name:	Samuel F. Wood
Filer:	Alan A. Limbach
Attorney Docket Number:	357323-990127

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	95	95
Utility Search Fee	2111	1	310	310
Utility Examination Fee	2311	1	125	125

Pages:

Claims:

Claims in excess of 20	2202	1	30	30
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Miscellaneous-Filing:

Petition:

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				560

Electronic Acknowledgement Receipt

EFS ID:	11912419
Application Number:	13358353
International Application Number:	
Confirmation Number:	7896
Title of Invention:	Tandem Access Controller Within The Public Switched Telephone Network
First Named Inventor/Applicant Name:	Samuel F. Wood
Customer Number:	26379
Filer:	Alan A. Limbach
Filer Authorized By:	
Attorney Docket Number:	357323-990127
Receipt Date:	25-JAN-2012
Filing Date:	
Time Stamp:	18:10:05
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$560
RAM confirmation Number	6346
Deposit Account	071896
Authorized User	

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000298

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Specification	Telemaze990127Spec.pdf	127770 abc92dbd12fc50b1b107268df14591bcf74aeb44	no	27
Warnings:					
Information:					
2	Drawings-only black and white line drawings	Telemaze990127Drawings.pdf	155973 3bb24bbf48fe37516f8c96a0a6df27042f3770b0	no	11
Warnings:					
Information:					
3	Oath or Declaration filed	Telemaze990127Declaration.pdf	83476 54fbb7c93ef90d1bb71b3d22bdbbec9ea4f2cb9b	no	3
Warnings:					
Information:					
4	Power of Attorney	Telemaze990127PoA.pdf	106003 155a589eda10d93a7504911403e1785daaa3f724	no	1
Warnings:					
Information:					
5	Assignee showing of ownership per 37 CFR 3.73(b).	Telemaze990127Statement.pdf	94993 26446d05de14881d73047b892b4418ed2a422cd2	no	1
Warnings:					
Information:					
6	Transmittal of New Application	Telemaze990127Transmittal.pdf	136738 316e0b7430f1fc0e8685b06542c9ac66a188e31b	no	1
Warnings:					
Information:					
7	Fee Worksheet (SB06)	fee-info.pdf	36190 08e60be302f20d8d45166a4d03d6918966652102	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			741143		

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New International Application Filed with the USPTO as a Receiving Office

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TANDEM ACCESS CONTROLLER WITHIN THE PUBLIC SWITCHED TELEPHONE NETWORK

5

RELATED APPLICATIONS

[0001] This application is a continuation of U.S. application Ser. No. 11/428,822, filed July 5, 2006, which is a continuation of U.S. application Ser. No. 10/426,279, filed Apr. 30, 2003, which is a continuation-in-part of U.S. application Ser. No. 09/565,565, now U.S. Pat. No. 6,574,328, filed May 4, 2000, all three of which are incorporated herein by reference.

10

FIELD OF THE INVENTION

[0002] This invention relates to telephone services and, in particular, to a system for allowing a subscriber to select features of the subscriber's telephone service and to various novel features that can be selected.

15

BACKGROUND OF THE INVENTION

[0003] People have used various means for limiting interruptions due to the telephone. In the past, people used switchboards and secretaries to screen incoming, or inbound, calls. Voice mail systems took over some of this role both in the home and in the central office. Today, there are web-based companies managing 3rd-party call control, via the toll-switch network, which allow users to enter call control information through a web portal. There are also edge devices in each of the public telephone company's central offices which provide local control, but offer an extremely limited number of features and do not provide true 3rd-party call control.

20

25

[0004] The web-based toll systems provide good user interaction but they are not economical and cannot take advantage of local number portability because they do not provide local control and connectivity.

30

[0005] The Public Switched Telephone Network (PSTN) consists of a plurality of edge switches connected to telephones on one side and to a network of tandem switches on the other. The tandem switch network allows connectivity between all of the edge switches, and

a signaling system is used by the PSTN to allow calling and to transmit both calling and called party identity.

5 [0006] Until now, optional features were provided by the local service telephone company (telco) through the edge switch at the central office (CO). It was not possible to provide optional features through any other means. Control of these features was done through the first party (calling party) or the second party (called party), or worse yet, manually by calling the business office.

10 [0007] In the past, numerous devices have been built that allow the connection of two lines together at an edge switch. These devices can be used to add features to a telephone network by receiving a call on one line and then dialing out on another line. The problem with these devices is that, because they are connected through an edge switch, transmission losses and impairments occur, degrading the overall connection. In addition, signaling limitations
15 prevent full control, by the subscriber or the system, over the call.

[0008] A preferred embodiment of the inventive system described herein connects at the tandem, thereby eliminating these problems.

20 [0009] In the edge devices residing in the PSTN central offices, the 1st party (the calling party) has numerous features available (dialing options). The 2nd party (called party) also has options available such as call forwarding, but these features typically require access from the first or second party's device and are extremely awkward to program. The user interaction is not only awkward, it is limited and requires interaction with the telephone company to
25 provision them. In other words, past systems for provisioning, meaning addition, modification, or control of telephone features, required a subscriber to make the feature selection through the telephone business office. Central office workers would then implement the provisioning under request of the business office.

[0010] Call Forwarding is one popular provision. There is significant transmission degradation for Call Forwarding to take place. The calling party pays for a call to the edge device, and the edge subscriber, the called party, pays for the call to the forwarding number. For enhanced inbound call control to occur, a direct 3rd-party call control means is needed.

5

[0011] A variety of services have arisen to address the problems mentioned above. Many of these systems allow the called party to make changes to his/her call forwarding attributes which do not allow direct 3rd-party call control. These services provide good user interaction, some via the internet, but they rely upon the toll network through the use of "800" numbers.

10

[0012] This requires the subscriber to pay by the minute and does not allow the subscriber to take advantage of number portability in order to obtain 3rd-party call control. There are other toll network mechanisms for remote call forwarding. For example, MCI offers a service where the customer can remotely change the forwarding target number for "800" numbers. Contacting the ultimate end-user before terminating the first incoming call is similar to the manner in which "800" credit calls and collect calls are processed, but these are not done at the local subscriber level.

15

[0013] In addition to these toll services, there are edge devices that perform some of the same services. Edge devices such as phones and PBXs that include voice mail, inter-active voice response, call forwarding, speed calling, etc., have been used to provide additional call control. These devices allow the phone user direct control over incoming and outgoing calls. The disadvantage of edge devices is that they add cost, degrade voice and transmission quality, can be difficult to program, are not easily programmed remotely, can require the user to pay for two lines, provide lower quality of service, and cannot provide the same level of functionality as a system that controls the PSTN directly. There are Voice Over Internet Protocol (VoIP) products emerging that provide better user interfaces and control but they do not take advantage and voice quality of the PSTN.

20

25

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BRIEF SUMMARY OF THE INVENTION

[0014] A system for allowing a subscriber to remotely control features is described herein
5 along with various telephone features that may be programmed into the system. A subscriber
may be any customer using the telephone service, in contrast to employees of the PSTN who
may use special communication networks within the PSTN.

[0015] The present invention adds direct control of third party call control features, but does
10 not suffer from any of the disadvantages listed above, and allows the subscriber to manage
his/her telephone system in a dynamic and exceptionally useful manner that is not currently
available through the existing PSTN. The invention allows enhanced direct third-party call
control features, such as selective call routing and remote dialing, to be added to the PSTN
(Public Switched Telephone Network) using local call control and providing dynamic
15 provisioning of the system by the subscriber. Direct 3rd-party control means that the ability
to provision the 3rd-party features is directly available to a subscriber, eliminating the need
to go through the telephone company (telco) business office.

[0016] In one embodiment, the system includes a processor, referred to herein as a tandem
20 access controller (TAC), connected to the PSTN, where the TAC allows a subscriber to set-
up and make immediate changes to the configuration of his or her phone line or other
communications device. In one embodiment, the TAC subsystem is connected internally to
the PSTN in a local service area and is outside the central office of the subscriber. A calling
party makes a first call to the subscriber using the subscriber's public telephone number. The
25 TAC receives the first call prior to the call reaching the subscriber's terminating central
office, which in some cases avoids a toll. The TAC then carries out the subscriber's
instructions for the first call, such as making one or more second calls using telephone
numbers different from the subscriber's public telephone number. When the second call is
answered, the answering phone is connected by the TAC to the caller.

30

[0017] The TAC provides features, selected by the subscriber, to all edge switches connected to the PSTN tandem switch. Connecting directly to the PSTN tandem switch (or embedding the system into the tandem switch) eliminates the signal degradation problems previously described.

5

[0018] In one embodiment, the system allows provisioning of features via the internet under direct control of the subscriber. Recently, several products have been introduced that provide a means of controlling features via the public internet. However, all these devices fall short in that they require the subscriber to obtain an "800" number or some other number that requires the subscriber to pay a toll charge each time a call is made. The present invention connects locally, so no toll charges are incurred.

10

[0019] The web-enhanced services in one embodiment of the invention coexist with and overlay the local phone service at the local level, thereby providing good economics and user interaction, single number access to multiple subscriber devices, connectivity without transmission impairments and true, direct 3rd-party call control.

15

[0020] The present invention relies upon use of local telephone facilities thereby eliminating all the extra charges associated with making toll calls. It also allows the user to take advantage of number portability and keep his/her existing public phone number.

20

[0021] Examples of two features that may be performed by the TAC are caller ID (CID) based call routing and branch calling. The system allows the subscriber to set up a feature where the CID signal is detected within the PSTN and automatically associated with stored information relating to the caller. The stored information may have been previously entered into a memory within the PSTN by the subscriber via the world wide web. The CID signal may be also used to route the call to one of more forwarding numbers or to take any other action, such as blocking the call. This feature also allows the subscriber to use the CID signal to display certain information even though the caller may have her CID blocked.

25
30

[0022] Another feature described herein is referred to as branch calling, which allows a call to be forwarded to multiple telephones simultaneously, where the first telephone answered terminates the calling of the other telephones (or any other end units).

5 [0023] The offered features are implemented by software programs run by the processing system.

[0024] The web-enhanced services in one embodiment of the invention coexist with and overlay the local phone service at the local level, thereby providing good economics and user
10 interaction, single number access to multiple subscriber devices, connectivity without transmission impairments and true, direct 3rd-party call control.

[0025] The present system relies upon use of local telephone facilities thereby eliminating all the extra charges associated with making toll calls. It also allows the user to take advantage
15 of number portability and keep his/her existing public phone number.

BRIEF DESCRIPTION OF THE DRAWINGS

[0026] FIG. 1 illustrates the tandem access controller (TAC) in one embodiment of the present invention connected to the existing PSTN tandem switch, the TAC providing features
20 for the subscriber's telephone as requested by the subscriber via the web.

[0027] FIG. 2 illustrates a system similar to FIG. 1 but showing multiple tandem switches and TACs and also showing how the subscriber may, in addition to using the standard telephone, make phone calls using Voice Over IP via a conventional digital telephone.
25

[0028] FIG. 3 is a flowchart of one method that a person may use to set up a subscriber account and to designate features the subscriber would like for his/her telephone.

[0029] FIG. 4 is a flowchart of a method that can be performed by the TAC in response to the
30 subscriber (or other service) controlling the TAC, using the web (or other packet-based

system), to change the subscriber's telephone provisioning or perform another function, such as make a VoIP call.

5 [0030] FIG. 5 is a flowchart of a method that can be performed by the TAC in response to an inbound call to the subscriber.

[0031] FIG. 6 is a flowchart of a method performed by the subscriber and the TAC when the subscriber desires to make an outbound call via the web or using a conventional telephone.

10 [0032] FIG. 7 illustrates a system, using the TAC, that allows wireless cell phones to obtain the same provisioning options as the conventional telephones.

[0033] FIG. 8 illustrates a system, using the TAC, that allows fax and modem calls to benefit from the provisioning offered by the TAC.

15

[0034] FIG. 9 is a flowchart of possible scenarios using the caller ID based feature.

[0035] FIG. 10 is a flowchart of possible scenarios using the branch calling feature.

20

DETAILED DESCRIPTION OF THE INVENTION

[0036] FIG. 1 shows a tandem access controller (TAC) 10 that allows an authorized subscriber 12 to establish 3rd-party control criteria for calls to the subscriber's telephone 14 (having a "public" phone number that callers dial). In one embodiment, the TAC 10 is a programmed processor. The TAC 10 may use any combination of hardware, firmware, or software and, in one embodiment, is a conventional computer programmed to carry out the functions described herein.

25

[0037] The TAC 10 is connected to or inside the conventional PSTN tandem switch 16 such that calls may flow through the TAC 10 in the same manner as the existing PSTN tandem switch, except that additional 3rd-party features are applied to the call. As is well known,

30

PSTN tandem switches are exchanges that direct telephone calls (or other traffic) to central offices 17, 18 or to other tandem switches. Details of the operation of the existing phone network may be found in the publication entitled "New Net SS7 Tutorial," by ADC Telecommunications, copyright 1999, incorporated herein by reference. Additional details
5 may be found in the numerous books describing the PSTN.

[0038] The PSTN tandem switch 16 directs a first call (from the calling party 20 to the subscriber's phone 14 using the subscriber's public phone number) to the TAC 10, which in turn places a second call, subject to 3rd-party control information, to the subscriber's
10 "private" phone number without yet terminating the first call. The TAC 10 is connected within the subscriber's local service area so calls from TAC 10 to the subscriber do not incur a toll. When the subscriber 12 terminates (or answers) the second call, the TAC 10 terminates the first call and connects it to the second call, thereby connecting the calling party 20 to the subscriber 12. Hence, the calling party essentially calls the TAC 10, using the subscriber's
15 public phone number, and the TAC 10, after processing the call using the selected features, calls the subscriber, as appropriate, using the subscriber's private phone number and connects the two calls. The process is transparent to the parties.

[0039] The TAC 10 is connected inside the PSTN in the sense that it is not an edge device
20 such as a PBX or central office (CO) switch because it does not connect directly to subscribers. Rather, it redirects calls to subscribers. The TAC 10 provides intelligent interconnection between a calling party and a subscriber.

[0040] The reader should keep in mind that although only one tandem switch 16 is shown in
25 FIG. 1, the invention will apply equally well to a network of tandem switches, as shown in FIG. 2. FIG. 2 also illustrates how the subscriber can make calls using voice over IP via a conventional digital telephone 21.

[0041] FIG. 1 illustrates the preferred method for an authorized subscriber to modify the 3rd-
30 party control criteria by means of the world wide web 22 (and web server 23) using an

internet browser. By "authorized" we mean a subscriber who is registered and has logged-in with appropriate security and password controls. The subscriber 12 interacts with the web 22 via the Internet to quickly and easily specify the enhanced 3rd-party call control features. Web 22 then relays this information, in appropriate form, to the TAC 10. Preferably, the link
5 to the TAC 10 uses a secure protocol. Examples of features that can be selected by the subscriber include: conditional call blocking, call forwarding, call altering, time of day conditions, day of week conditions, follow-me, caller recognition/password, caller ID, call screening/retrieval from voice mail, speed dialing, interactive voice response, and speech recognition. Any other feature could be added. These features can be implemented in the
10 TAC 10 using known software techniques since such features are known. Message outgoing call control includes: click-to-dial calling and group calling/messaging.

[0042] The invention may also include ivr/vm/voverip.

15 [0043] FIG. 1 uses a public internet portal connected via a data link to the TAC 10 or other interface system. As a registered subscriber, a user logs onto the portal (FIG. 3) and is granted access, allowing the user to make additions or changes to features such as speed calling, call forwarding, selection of such descriptors as time of day, busy status, caller ID status, etc. A user-friendly web page leads the subscriber through the various procedures and
20 available features. The selections made by the subscriber are translated into provisioning data and transmitted to the TAC 10. The TAC 10 in turn keeps track of incoming and outgoing calls based on this information.

[0044] The subscriber can also program a set of the call control features via a telephone link
25 in the event a data link connection is unavailable.

[0045] FIG. 4 is a flowchart of actions that may be taken by the TAC 10 in response to the subscriber (or other service) controlling the TAC, using the web or other packet-based system, to change the subscriber's telephone provisioning or perform another function, such
30 as make a VoIP call.

[0046] FIG. 5 is a flowchart of actions taken by the TAC 10 in response to an inbound call (using the subscriber's public phone number) to the subscriber. Examples of some of the actions taken by the TAC 10 are: [0047] Receives SS7 data indicating an incoming call
5 [0048] Stores phone numbers downloaded from provisioning system [0049] Charts identity of calling party [0050] Checks time of day [0051] Stores lists of numbers in groups used for processing incoming calls [0052] Places outgoing calls in response to incoming calls according to information downloaded on the data link.

10 [0053] Incoming call data is received by the TAC 10 from the tandem switch 16. The TAC 10 processor checks calling and called numbers, class of service, time of day, number lists, etc. In some cases additional data is gathered from the calling party via a DSP (Digital Signal Processing) system and stored in the system memory. The DSP system is used to play call
15 progress tones and voice announcements as required. Voice announcements can be played through the DSP system. In response to the call data, an outgoing call to the subscriber 12 may be placed back through the tandem switch 16 by TAC 10. The TAC 10 links the two calls and monitors the connection.

[0054] Information about the call may be collected by the TAC 10 and sent to the subscriber
20 or a 3rd party for display. Such information may be the length of the call or information used to bill the subscriber for the use of the system. The provisioning system can also collect control information from a 3rd party and relay it back to the TAC 10, which will then affect the call accordingly.

25 [0055] FIG. 6 is a flowchart of actions taken by the subscriber 12 and the TAC 10 when the subscriber desires to make an outbound call via the web or using a conventional telephone. When using the web to place a call, the subscriber may simply click a name on the computer screen 26 using a mouse.

[0056] FIG. 7 illustrates a system, using the TAC 10, that allows wireless cell phones 28 to obtain the same provisioning options as the conventional telephones 14. A local cell 30 and a cell switch 32 are also shown in FIG. 7.

5 [0057] FIG. 8 illustrates a system, using the TAC 10, that allows fax and modem calls to benefit from the provisioning offered by the TAC 10. The TAC 10 may interface the ISP 36 through the web 22.

[0058] One embodiment of the invention allows a subscriber to view the current state of
10 his/her telephone via the Internet. Internet is a term of art by which we mean an interconnection of packet switched networks. Prior to this system there was no way for a user to examine the status of a telephone line. Recently, several products have been introduced that provide a means of examining the voice message boxes.

15 [0059] An internet portal is connected via a data link to the TAC 10. When a user logs onto the internet portal and is granted access to an individual subscription, the user can examine the status of calls/features. This information is transmitted from the TAC 10 to the web portal and translated into user viewables. The TAC 10 keeps track of incoming and outgoing calls based on this information.

20

[0060] The TAC 10 may be implemented using conventional processor hardware. The connection to the tandem switch 16 may be as simple as a telephone circuit, since the TAC 10 receives an incoming call from a caller and processes the call. Devising the software/firmware use to control the TAC 10 is well within the capability of those skilled in
25 the art since the various control features that can be made available are generally already known.

[0061] Certain advantages that can be obtained using the invention include the following:

30 [0062] Web-Based Telecom Navigator

- [0063] Manage Incoming Call Control
 - [0064] Conditional Call Blocking/Forwarding/Alerting
 - [0065] Time-of-Day, Day-of-Week, Follow-Me, Caller Recognition/Password, Caller ID, etc.
- 5 [0066] Call Screening/Retrieval from Voice Mail
 - [0067] Interactive Voice Response and Speech Recognition
- [0068] Manage Outgoing Call Control
 - [0069] Click-to-Dial Calling
 - [0070] Group Calling and Messaging
- 10 [0071] Web-Based Billing
 - [0072] Web-Driven Personal Communications Management
 - [0073] Cost-Effective Single Phone Number Access
 - [0074] On-Line "Personal Digital Assistant"
 - [0075] On-Line "Telcom Navigator"
- 15 [0076] Inspired User Interaction
 - [0077] Secure and Reliable Technology
 - [0078] Cost-Effective Single Phone Number Access
 - [0079] CLEC Status
 - [0080] Free Local Calls, Incoming Calls (not 800 Toll Service)
- 20 [0081] Retain Current Number (Local Number Portability)
 - [0082] Low-Cost Calling Throughout LATA
 - [0083] Flat-Rate Foreign Exchange
 - [0084] Single Installation Covers Entire LATA
 - [0085] VoIP Toll-Bypass
- 25 [0086] Compatible With Existing Devices, Standards
 - [0087] Standard DTMF and VoIP Phones
 - [0088] Wireless Phones
 - [0089] Standard Wired/Wireless and PIM Browsers
- [0090] Web-Based Personal Digital Assistant
- 30 [0091] Centralized and Consistent Personal Data

- [0092] Build Once, Use Anywhere
- [0093] Private/Public Phone Directories and Calendars
- [0094] "Post-It" Style Annotation of Numbers
- [0095] Web Dialing
- 5 [0096] Click-to-Dial from Web Pages, Directories, Calendars
- [0097] Multiple Phone List Management
- [0098] Unified Messaging
- [0099] Voice Mail Access, Prompts, Alert Via Web
- [0100] User Interaction
- 10 [0101] Expected Behavior
- [0102] Compatible with Familiar Products (e.g. Palm Pilot)
- [0103] Commonality Between All Wired and Wireless
- [0104] Mode-Based Definition and Selection
- [0105] Vacation, Dinner Time, Go Away, Family Call Waiting
- 15 [0106] Templates
- [0107] Learning Modes
- [0108] Persona-Based User Interaction Design
- [0109] Speech recognition
- [0110] Windows drag and drop
- 20 [0111] Automatic Data Capture
- [0112] Build Phone List Based on Collected Usage Information
- [0113] Drag and Drop Into Lists
- [0114] Secure and Reliable Technology
- [0115] Separate Web-Site and Link Gateway
- 25 [0116] No Direct External Access to Gateway
- [0117] Additional Security Layer
- [0118] No Denial-of-Service to Voice Links
- [0119] VoIP Link Degradation Detection
- [0120] Automatic Cutover to PSTN
- 30 [0121] E-Commerce Security

[0122] Billing Encryption Caller ID Based Call Routing

[0123] One advantage of using TAC 10 is its ability to enhance caller ID information. Caller ID is a common feature where a calling party's telephone number is transmitted to the called party's telephone so it can be displayed on a small display screen in the telephone. This caller ID information is provided by the calling party's central office switch. Signaling System No. 7 (SS7) is a global standard for telecommunications and defines the procedures and protocol by which network elements in the PSTN exchange information (including the caller ID) over the telephone network for call set up, routing, and control. In some telephone sets, including wireless telephones, the name of the caller associated with the telephone number is also displayed on the called party's display screen.

[0124] TAC 10 can use this automatically generated caller ID signal to provide an enhanced set of caller ID related features. One such feature is the association of the standard caller ID information with additional information about the caller stored in a memory addressed by TAC 10. The enhanced caller ID information provided through TAC 10 provides a valuable tool to the subscriber in handling incoming calls. The basic caller ID information, such as the caller's telephone number and name, can still be sent to the subscriber's phone and displayed in a conventional manner while the enhanced caller ID information may be displayed on the phone display or on the subscriber's computer monitor via the web.

[0125] The caller ID signals, pursuant to the SS7 protocol, are detected by TAC 10 when a calling party calls the subscriber using the subscriber's public telephone number, as previously described. TAC 10 then uses the basic caller ID data to address a look-up table (LUT) containing any additional information that the subscriber has entered into the LUT's memory locations for association with that caller ID data. FIG. 8 shows such a LUT within or connected to TAC 10.

[0126] In one example, the subscriber may identify a prospective calling party's telephone number to TAC 10 via the Internet and then associate the number with any other information

for storing in LUT 40. Such other information may be all the possible callers using the calling telephone, personal information regarding the calling party, billing information, business information, account numbers, past discussions with the caller, or any other information. When TAC 10 detects the caller ID signals, TAC 10 addresses LUT 40 and
5 downloads the retrieved information to the subscriber's telephone display or to the subscriber's computer via the web. Since TAC 10 (including LUT 40) stores this additional information, the subscriber is not required to personally provide processing or memory devices for this feature.

10 [0127] Multiple subscribers use the same TAC 10 and LUT 40 but only the memory locations in LUT 40 authorized for access by a particular subscriber are available to that subscriber.

[0128] A subscriber may program TAC 10 using the various means described previously to
15 perform any number of features on an incoming telephone call based upon the caller ID data. Such features include forwarding a call associated with that particular caller ID data to one or more other telephones, or blocking calls associated with that particular caller ID data. Such calls may be forwarded or blocked only at certain times or on certain days as requested by the subscriber. All of the other features previously described may also be applied based upon
20 the caller ID.

[0129] When the calling party elects to block her caller ID information, displaying the caller's number and name on the subscriber's telephone may violate the privacy act, so such a restriction should be programmed into the system. However, TAC 10 may still use the caller
25 ID information for various legal purposes. For example, the subscriber may not wish to receive phone calls from a particular phone number or calling party. The subscriber may transmit to TAC 10 the caller ID information (e.g., the telephone number and/or the name) and instruct TAC 10 to either forward the call, block the call, or transmit any additional information from LUT 40 to the subscriber's phone display or computer monitor for
30 screening the caller.

[0130] If caller ID information does not exist, such as where the local telephone company does not offer caller ID, TAC 10, when receiving the incoming call, can transmit an automatic message to the caller to enter identification information. TAC 10 then uses that
5 information to address LUT 40 to identify any associated information in LUT 40 for transmission to the subscriber. TAC 10, in a recorded or simulated voice, can request the caller to enter her phone number via the telephone keypad. Alternatively, TAC can request that the caller speak her name or number, which would then be played to the subscriber or converted to text or a code by TAC 10 to address LUT 40. Alternatively, the caller can enter
10 a personal identification number or any other type of code (e.g., the caller's name) via the keypad, which would identify the caller to TAC 10. Once obtained, the caller ID information entered can be used to route the incoming call via TAC 10 in any way programmed by the subscriber. Call routing can be based on time of day, the caller ID, any web input instructions, a direction by the calling party itself, or any other variable.

15

[0131] This technique is contrasted with 800-type services, which are reverse long distance services requiring the owner of the 800 number to pay for the incoming call. With 800 numbers, the caller ID must be unblocked to identify the amount of the toll. With the inventive technique, even blocked caller ID calls can result in information about the caller
20 being transmitted to the subscriber or used by TAC 10 to selectively perform a function.

[0132] FIG. 9 is a flowchart of various scenarios that may be carried out using the caller ID feature.

25 [0133] In step 50 of FIG. 9, an incoming call is received by TAC 10, as previously described, by a calling party calling the subscriber's public telephone number. In all embodiments described herein, the end unit called may be a residential telephone or other communication device connected to the PSTN via a central office, such as a computer, fax machine, or other communication device. The services provided by TAC 10 may be for residential telephone
30 service or for business telephone service.

[0134] In step 52, using the SS7 protocol, TAC 10 detects the caller ID signal (CID), if any. Even if the calling party has a blocked CID, the CID is still transmitted to TAC 10; however the blocked caller ID cannot be displayed on the called party's telephone. If the CID is
5 detected, the process continues to steps 54 and 56, which determine whether the CID is associated with any data in a look-up table. Existing data in the look-up table associated with the CID indicates that the caller is a previous caller. If caller ID information is known without ever previously receiving a call from that party, the additional information can still be entered into the look-up table, and the calling party will be treated as not a new caller in
10 step 54.

[0135] Assuming the caller has information stored in the look-up table, this additional information is retrieved by TAC 10 and displayed on a web page (step 58) that is accessible by the subscriber via the web. In addition, the caller's name and telephone number may also
15 by displayed (step 60). The information may also be transmitted to the subscriber's telephone for display.

[0136] In step 62, TAC 10 performs any programmed function on the call, such as forwarding the call to the subscriber's private telephone number or another number.
20

[0137] The placing of the second call by TAC 10 causes the called phone to ring (step 64) as well as causes the CID and additional information to be available to the subscriber (step 66) on the subscriber's telephone display. When the subscriber answers the phone, TAC 10 completes the connection between the two parties.
25

[0138] The retrieved information from LUT 40 that is transmitted over the web may appear as a screen pop-up on the subscriber's monitor. This CID information can then be reviewed and edited to include new information about the caller provided during the call. The subscriber then downloads this edited information to TAC 10 so future calls from the same
30 caller would display the new information.

[0139] In step 54 if it is determined that the CID information is not associated with any existing information in the look-up table, TAC 10 determines whether the CID is blocked (identified in the SS7 protocol) in step 68. If the CID is not blocked, then the CID
5 information is transmitted to the subscriber's telephone when TAC 10 places the call to the subscriber's private number (or any other forwarding number), and the CID is displayed on the subscriber's phone.

[0140] In step 68, if it is determined that the CID is blocked, TAC 10 will prompt the caller,
10 via a recorded message or a simulated voice, to press the appropriate touch tone buttons to unblock the CID (step 70). For example, TAC 10 may be programmed to detect that a "1" key is pressed by the caller to unblock CID and then treat the CID information as unblocked. Alternatively, the caller may be required to call back after pressing the proper touch tone keys to unblock the CID in a conventional way.

15 [0141] In step 72, if the CID is now unblocked, the CID is obtained from the caller in step 74. The process also goes to step 74 if, in step 52, the CID is not initially obtained.

[0142] In step 76, TAC 10 determines whether the CID signal has been provided by the
20 calling party from either the automatic CID signals or from the caller manually entering the caller's telephone number, name, or PIN, as previously described. If yes, then in step 54 TAC 10 uses the CID information to determine whether the caller is a new caller, and the remainder of the process continues as previously described.

25 [0143] In step 72, if it is determined that the CID remains blocked after TAC 10 has prompted the caller to unblock the CID, then in step 74 it is determined by TAC 10 in step 77 (after reviewing the subscriber's programmed instructions) whether the subscriber is accepting blocked calls. If yes, TAC 10 then places a call to the subscriber's private number or any other number identified by the subscriber, and puts the blocked call through. The
30 blocked CID information would not be transmitted to the subscriber's phone.

[0144] If the subscriber's instructions are to not accept blocked calls, then in step 78 the blocked call is not forwarded to the subscriber's phone, or the blocked call is sent to voice mail. Voice mail may be a memory internal to TAC 10, or TAC 10 may transmit a special
5 code to the subscriber's phone that automatically causes the call to be routed to a private voice mail system.

[0145] As seen, as long as the caller ID data received by TAC 10 has information associated with it in the look-up table, the stored information can be transmitted to the subscriber even if
10 the caller ID is blocked. Further, even blocked caller IDs can still be used by TAC 10 to perform a routing function on the call. The caller ID feature may be implemented by a software program run by the processing system in TAC 10.

[0146] Because the conventional blocked CID information provided by the phone company
15 is never displayed to the subscriber, the tagging system does not violate the privacy act. Known features such as call trace (where CID is provided to law enforcement people), or call return (where the blocked caller can be called back) have established a legal precedent that it is ok to use blocked CID information for certain purposes as long as the caller ID is not disclosed to the called party

20

Branch Calling

[0147] Branch calling is an enhanced telephone feature not believed to be provided on today's public telephone networks. This feature can be easily provided using TAC 10.

25 [0148] Branch calling is a technique where a caller places a first call intended for a called party to TAC 10. After receiving the call, TAC 10 looks up the call handling instructions programmed into TAC 10 by the subscriber via the web, via the telephone, or via any other technique. One set of these instructions is branch calling, which instructs TAC 10 to simultaneously call any number of different telephone numbers programmed into TAC 10 by

the subscriber. The called phone numbers may be any combination of local, long distance, or cellular numbers.

5 [0149] When a party answers one of the ringing lines, the answering party is connected to the calling party, and the other calls are abandoned.

[0150] For branch calling to operate in the most desirable manner, the system must detect that a call has been answered in order to terminate the calls to the other telephones (or other end units). Accordingly, some form of answer supervision must be present. Answer
10 supervision is implemented inside the PSTN but generally not available to private networks (e.g., PABXs). Since SS7 signaling supports answer supervision, it is easy for this branch calling feature to be provided through TAC 10 since TAC 10 is connected inside the PSTN.

[0151] Prior art systems without answer supervision must call each forwarding number
15 sequentially, whereby after a certain number of preprogrammed rings, the calling stops and the next number is called until someone answers the phone. Because a ringing time-out must occur before the next call can be tried, an unrealistically long delay can occur before the call is placed to the proper telephone and finally answered. In contrast, the present invention allows TAC 10 to ring all the numbers simultaneously so the call can be answered quickly.

20

[0152] It is desirable that the answer supervision signaling not be delayed so that the calling and called parties may be connected quickly when the call is answered and so that during the delay time two parties do not answer two different ringing phones.

25 [0153] FIG. 10 is a flowchart of some scenarios in branch calling, whereby an incoming call to TAC 10 causes TAC 10 to place at least two new calls simultaneously and, when one of these phones is answered, the remaining calls are abandoned.

[0154] In step 80 of FIG. 10, TAC 10 receives an incoming call.

30

[0155] In step 82, TAC 10 looks up the routing instructions for the DNIS (Dialed Number Identification Service) and caller ID (if any). The DNIS identifies the number that was called, and the caller ID (CID) identifies the calling telephone number and sometimes the caller. DNIS works by transmitting the touch tone digits to TAC 10. A subscriber for TAC 10 may
5 program TAC 10, as previously described, to perform any number of functions based upon the DNIS number, the CID, the time of day, or based upon any other factor. Such instructions may be stored in a look-up table addressed by the subscriber's public phone number (identified by the DNIS number). Since multiple subscribers will be using the same TAC 10, TAC 10 needs to know what number was dialed in order to perform the function on the call
10 selected by the subscriber.

[0156] In step 86, TAC 10 identifies the features to apply to the incoming call. If the instructions are to block the call, then TAC 10 blocks the call in step 87. In the present example, it is assumed that the feature the subscriber wants to apply is a branch calling
15 feature where two telephone numbers are to be called by TAC 10.

[0157] In step 88, TAC 10 generates a ring back tone to the caller to indicate that a telephone is ringing.

20 [0158] In step 90, TAC 10 places a call to a first telephone number, which causes the called phone to ring (step 92). Parallel operations are performed for a second phone number in steps 93 and 95.

[0159] In step 96, it is determined by TAC 10 whether the first phone has been answered
25 using answer supervision signaling provided by SS7 (step 98).

[0160] In response to the answer supervision signaling, TAC 10 abandons the other call to the second telephone (step 100).

[0161] In step 102, TAC 10 completes the phone call by connecting the calling party to the answered telephone. This process may be applied to other than telephones, such as computers or other types of communication equipment.

5 [0162] In step 96, if the call is not answered after the ring, it is determined whether the other telephone has been answered (step 104). If not, the two phones continue to ring.

[0163] If it is determined in step 104 that another telephone has been answered (i.e., the answer supervision signal has been received by TAC 10), the call to the first telephone is
10 abandoned (step 106).

[0164] The same operation is performed with respect to the second telephone call in steps 108-112.

15 [0165] Any number of telephone calls may be simultaneously placed by TAC 10 in response to a branch calling instruction.

[0166] In step 86, if the instructions programmed by the subscriber are to block the call, then TAC 10 blocks the call in step 116.
20

[0167] While particular embodiments of the present invention have been shown and described, it will be obvious to those skilled in the art that changes and modifications may be made without departing from this invention in its broader aspects and, therefore, the appended claims are to encompass within their scope all such changes and modifications that
25 fall within the true spirit and scope of this invention.

30

What is claimed is:

1. A method of using call control criteria to route a communication between a user with access to a voice over IP (VOIP) network, and a called party with access to the public switched telephone network (PSTN) comprising:
5 receiving at a control device a signaling message indicating a communication request from the user;
using information in the communication request to retrieve call control criteria from a database, where the call control criteria has been derived from selections previously made by said user via a web server; and
10 using the communication request message combined with the call control criteria to route the communication to the called party via a class 4 switch.
2. The method of claim 1 where the communication comprises a call.
15
3. The method of claim 1 where the communication comprises a short message.
4. The method of claim 1 where the communication request message is for a first call, and the routing of the communication constitutes a second call.
20
5. The method of claim 1 where the call control criteria includes the phone number of the user.
6. The method of claim 1 where the selections made by the user via a web server include the selection of a phone number.
25
7. The method of claim 1 where the selections made by the user via a web server include the entering of a valid credit card number.

8. The method of claim 1 where the selections made by the user via a web server include the entering of personal information.

5 9. The method of claim 1 where the selections made by the user via a web server include the selection of features.

10. The method of claim 9 where a feature includes selective call forwarding.

10 11. The method of claim 9 where a feature includes caller ID blocking.

12. The method of claim 1 where the call control criteria include security measures.

15 13. The method of claim 12 where security measures include the prevention of denial of service attacks.

14. The method of claim 12 where security measures include no direct access to the gateway.

20 15. The method of claim 12 where security measures include an additional security layer to prevent hacking.

16. The method of claim 12, wherein the security measures include VOIP link degradation detection.

25 17. The method of claim 12, wherein the security measures include automatic cutover to the PSTN.

30 18. The method of claim 12, wherein the security measures include conditional call blocking.

19. The method of claim 12, wherein the security measures include call logging.

20. The method of claim 12, wherein the security measures include authentication of the calling party.

5 21. The method of claim 1 where the control device is of a distributed nature occupying multiple locations.

10

ABSTRACT OF THE DISCLOSURE

5 A system includes a tandem access controller (TAC) coupled to a PSTN, where the
TAC allows a subscriber to set-up and make changes to the configuration of his/her phone
line or other communications device. Such changes include selective call forwarding. The
TAC is controlled by the subscriber using the web. The TAC is coupled internally to the
PSTN in a local service area and is outside the subscriber's central office. A calling party
10 makes a first call to the subscriber using the subscriber's public telephone number. The TAC
receives the first call prior to the call reaching the subscriber's terminating central office. The
TAC then carries out the subscriber's instructions for the first call, such as making one or
more second calls using telephone numbers different from the subscriber's public telephone
number. When the second call is answered, the answering phone is connected by the TAC to
the caller.

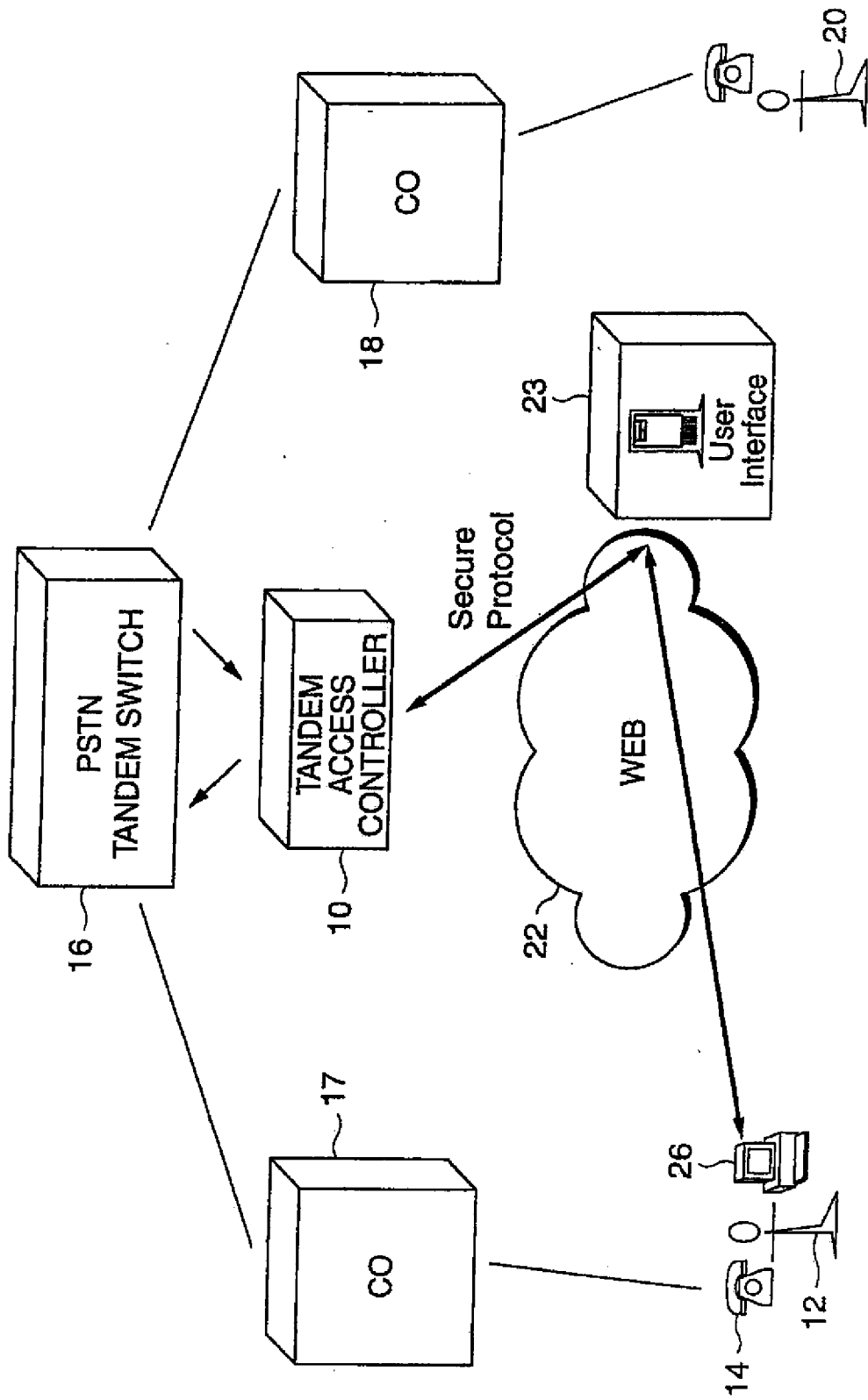


FIG. 1

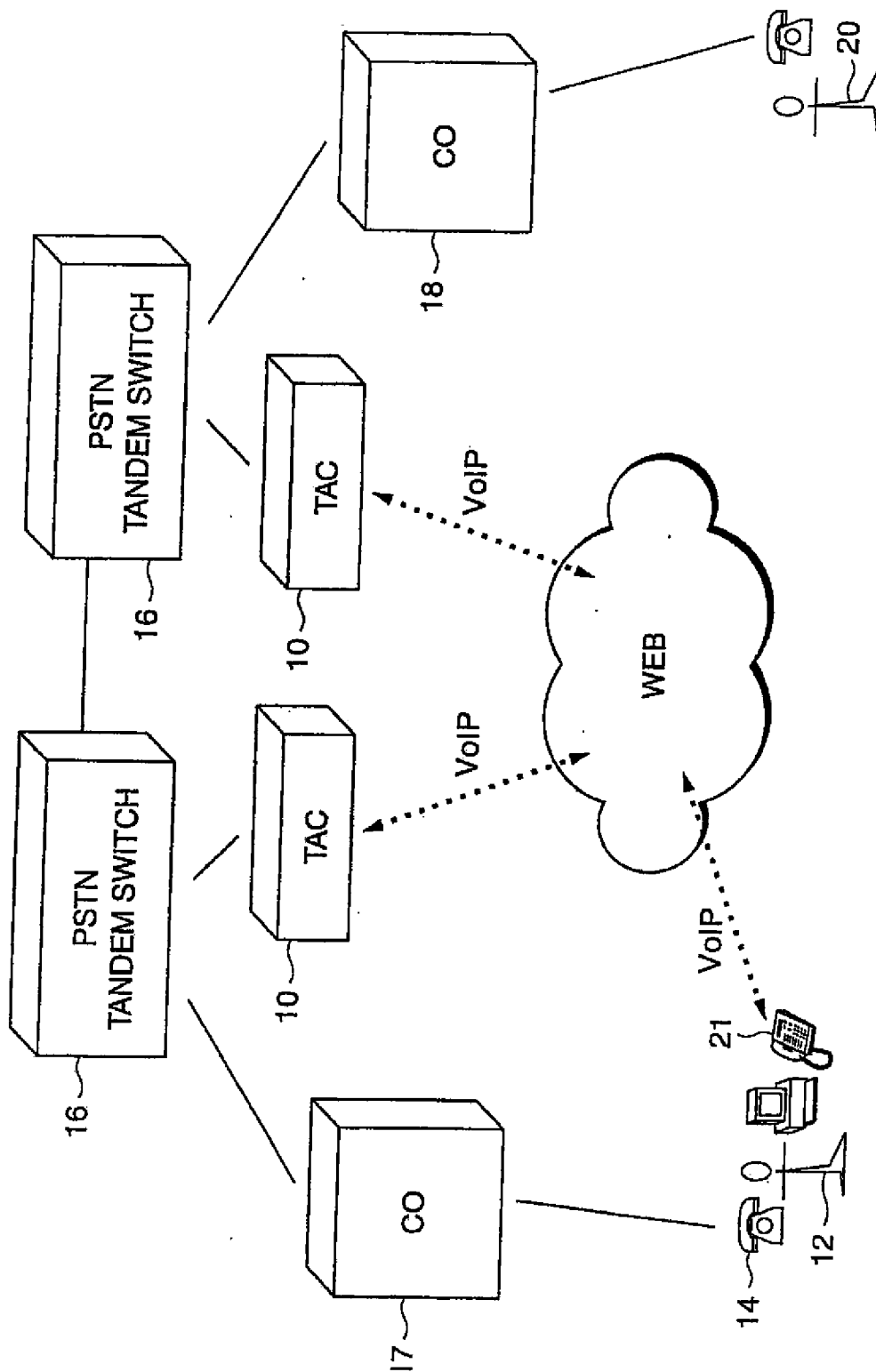


FIG. 2

Subscriber Registration and Login

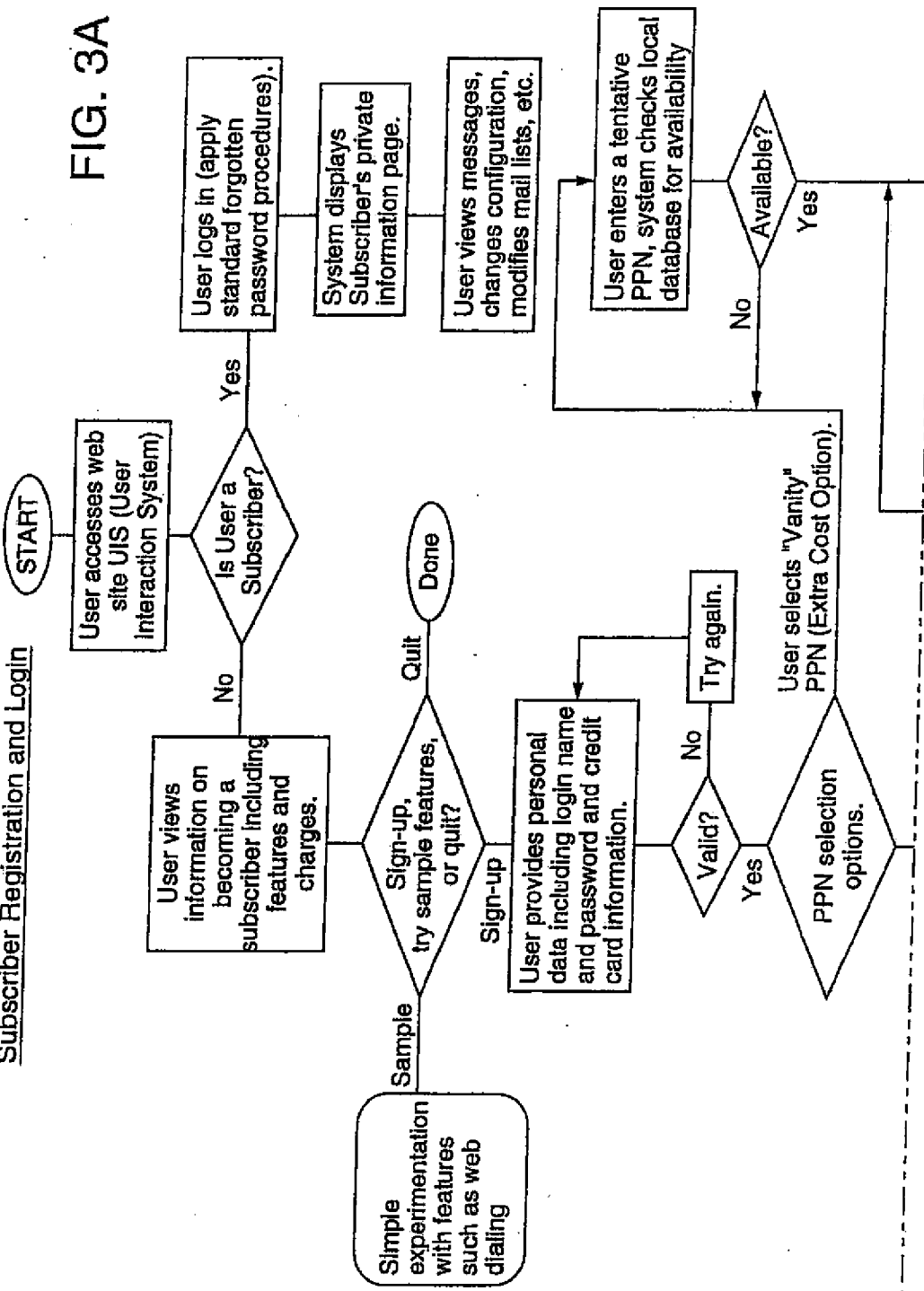
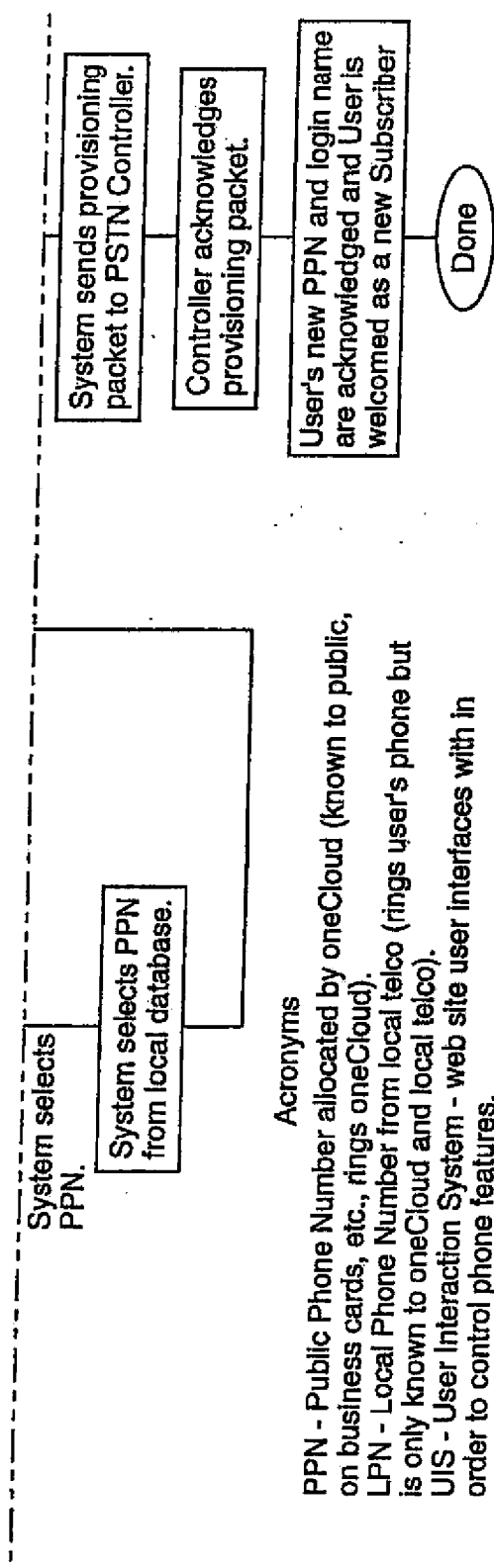


FIG. 3A



Acronyms

- PPN - Public Phone Number allocated by oneCloud (known to public, on business cards, etc., rings oneCloud).
- LPN - Local Phone Number from local telco (rings user's phone but is only known to oneCloud and local telco).
- UIS - User Interaction System - web site user interfaces with in order to control phone features.
- TAC - Tandem Acces Controller - System that directly accesses the PSTN.

FIG. 3B

FIG. 3A
FIG. 3B

FIG. 3

Incoming Message Processing for PSTN Tandem Access Controller

Acronyms
 PPN - Public Phone Number allocated by oneCloud (known to public, on business cards, etc., rings oneCloud).
 LPN - Local Phone Number from local telco (rings user's phone but is only known to oneCloud and local telco).
 UIS - User Interaction System - web site user interfaces with in order to control phone features.
 TAC - Tandem Access Controller - System that directly accesses the PSTN.

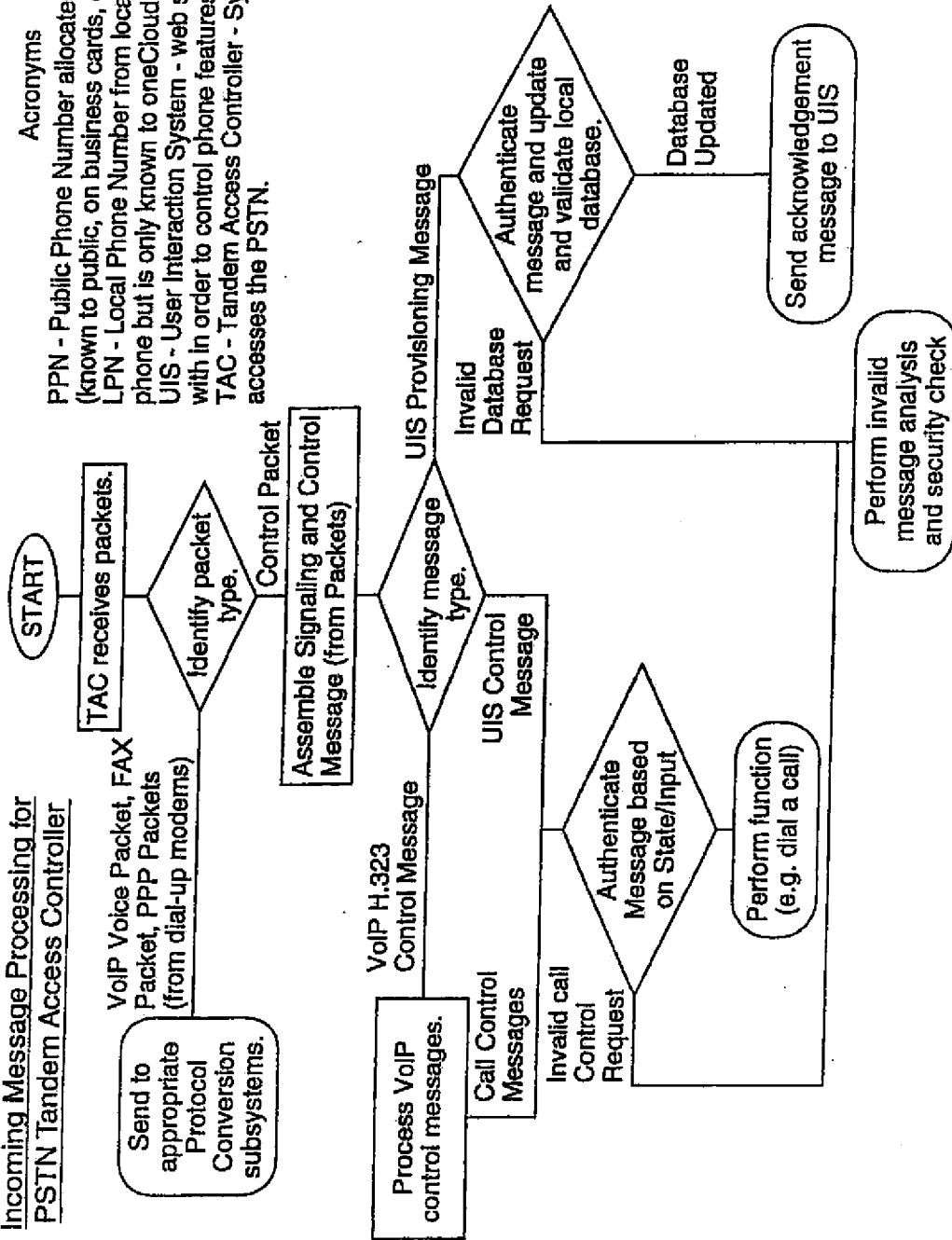


FIG. 4

Inbound Call (to Subscriber)

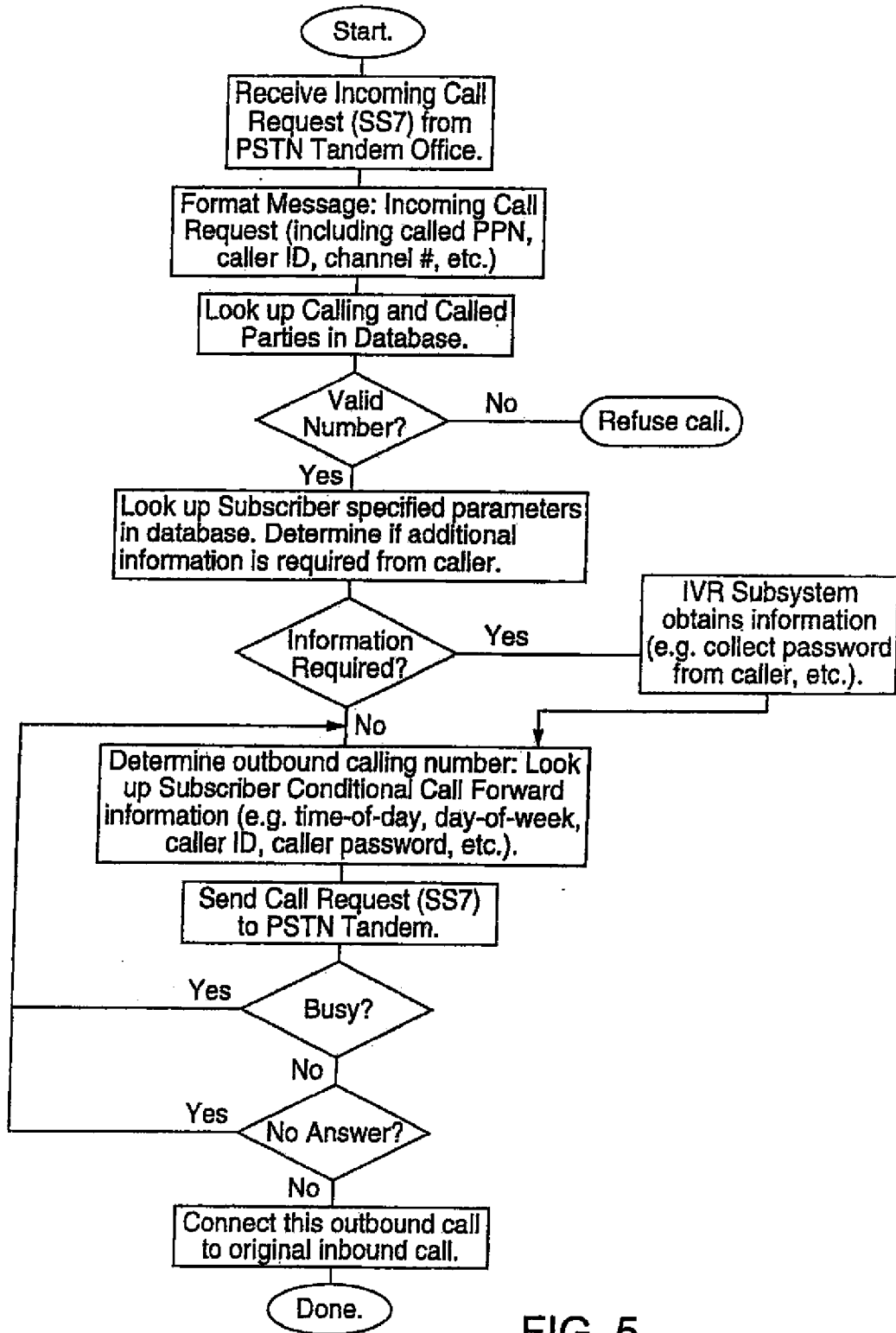


FIG. 5

Outbound Call (from Subscriber)

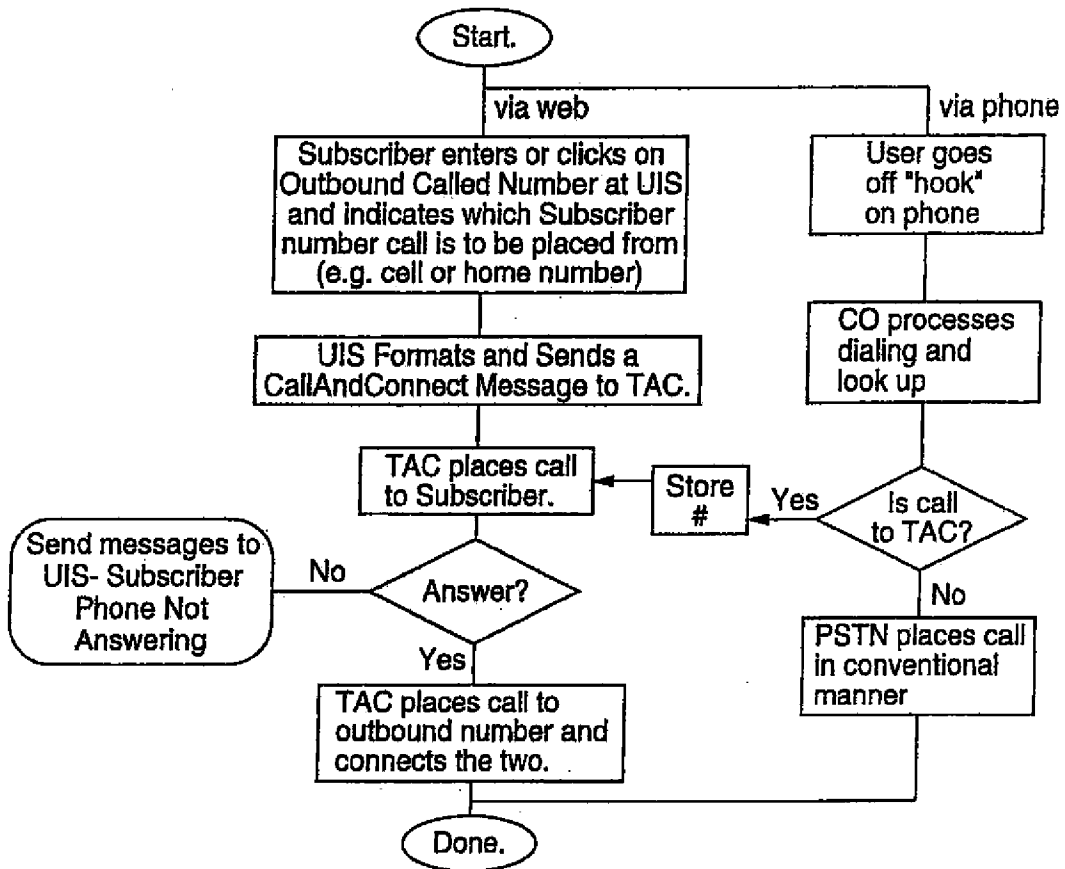


FIG. 6

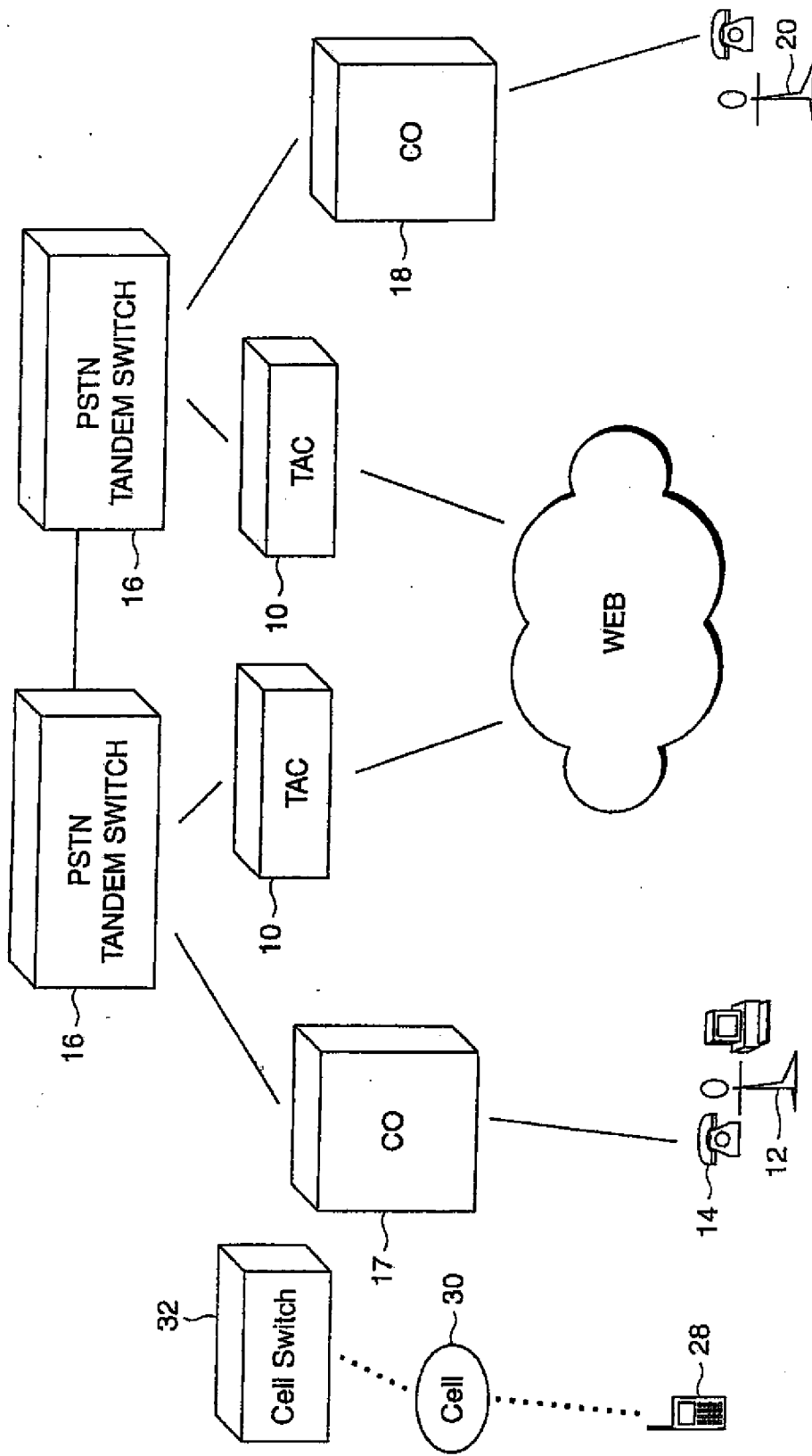


FIG. 7

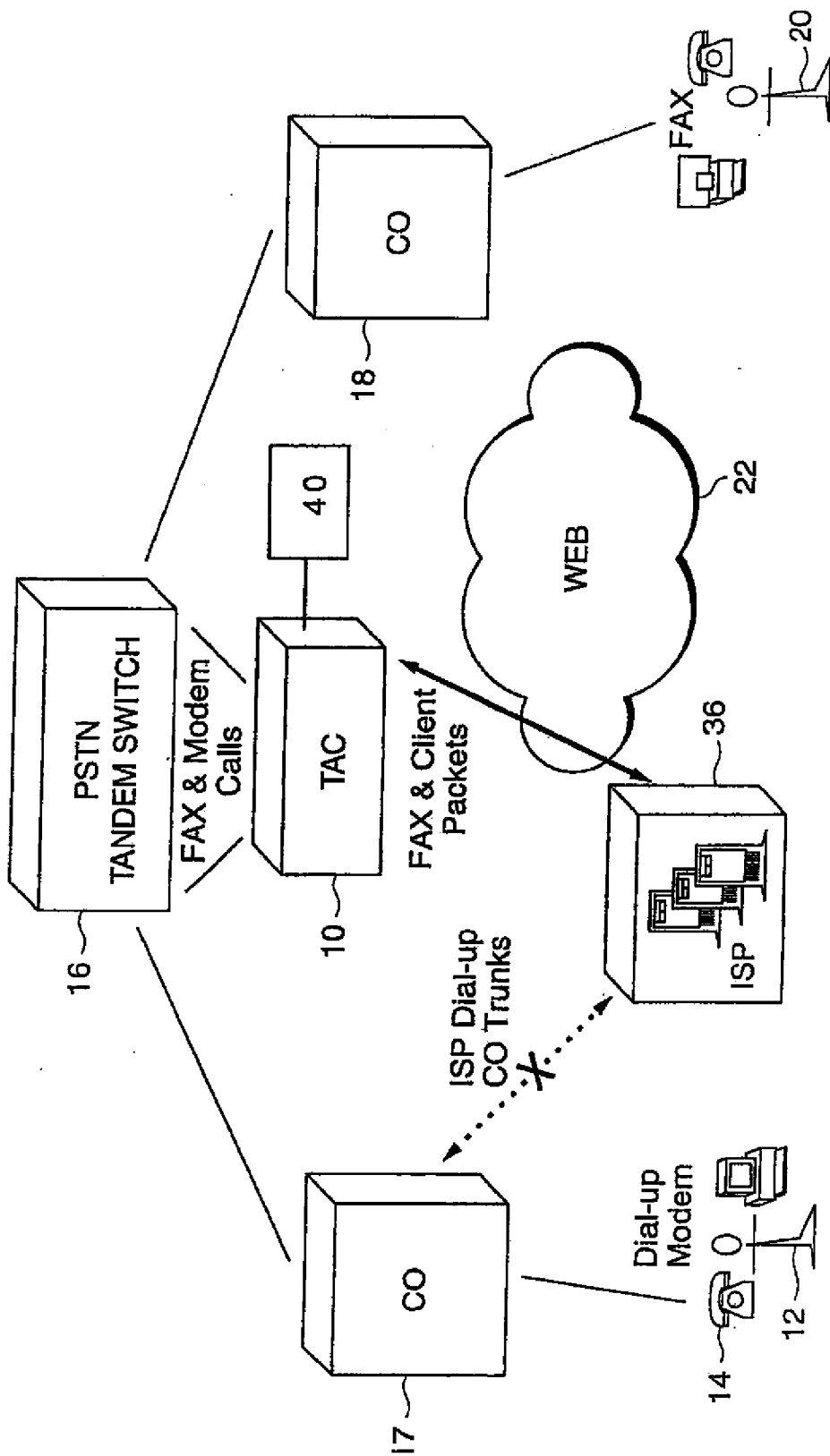


FIG. 8

CALLER ID (CID) FLOWCHART

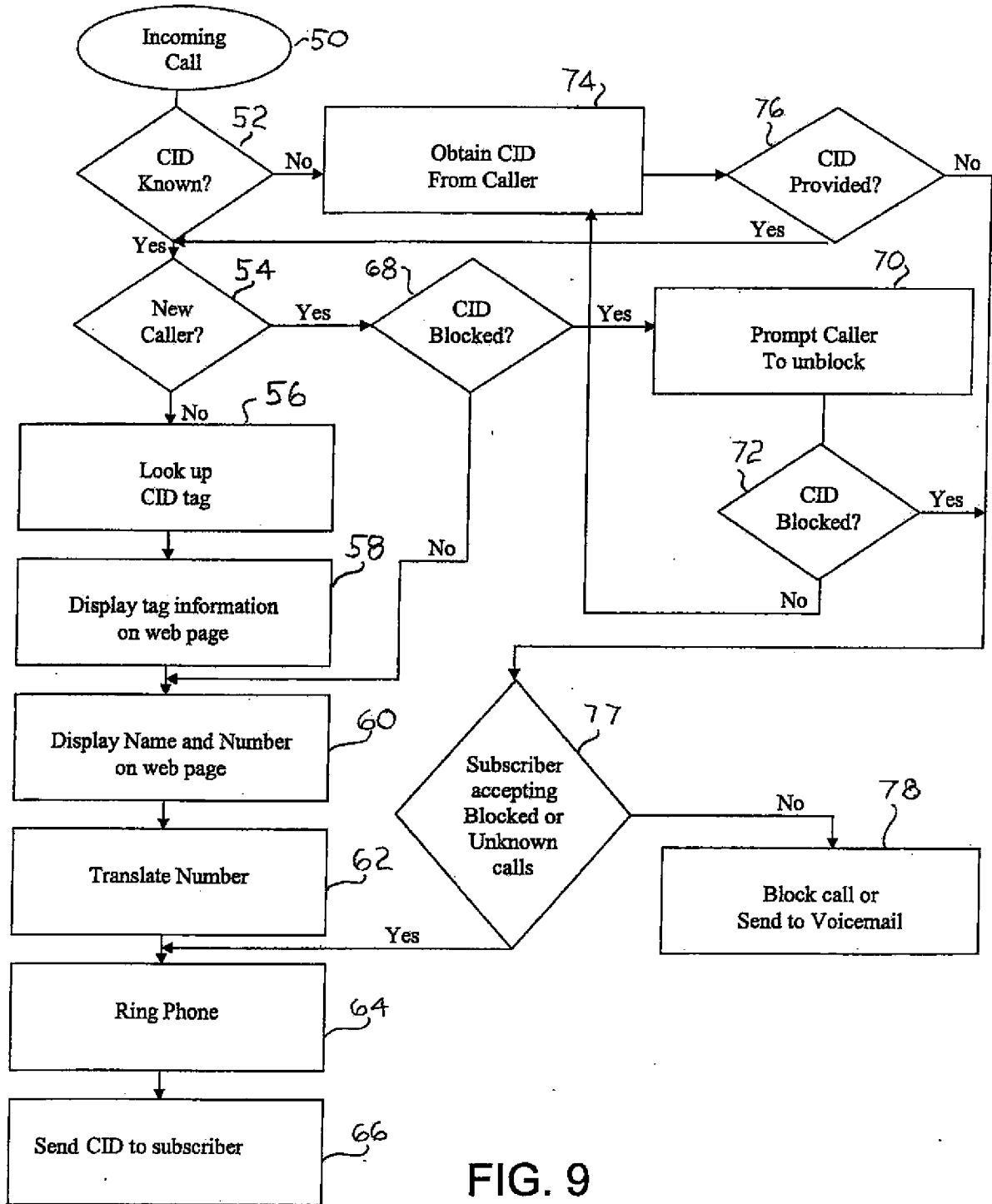


FIG. 9

Branch Calling Flow Chart

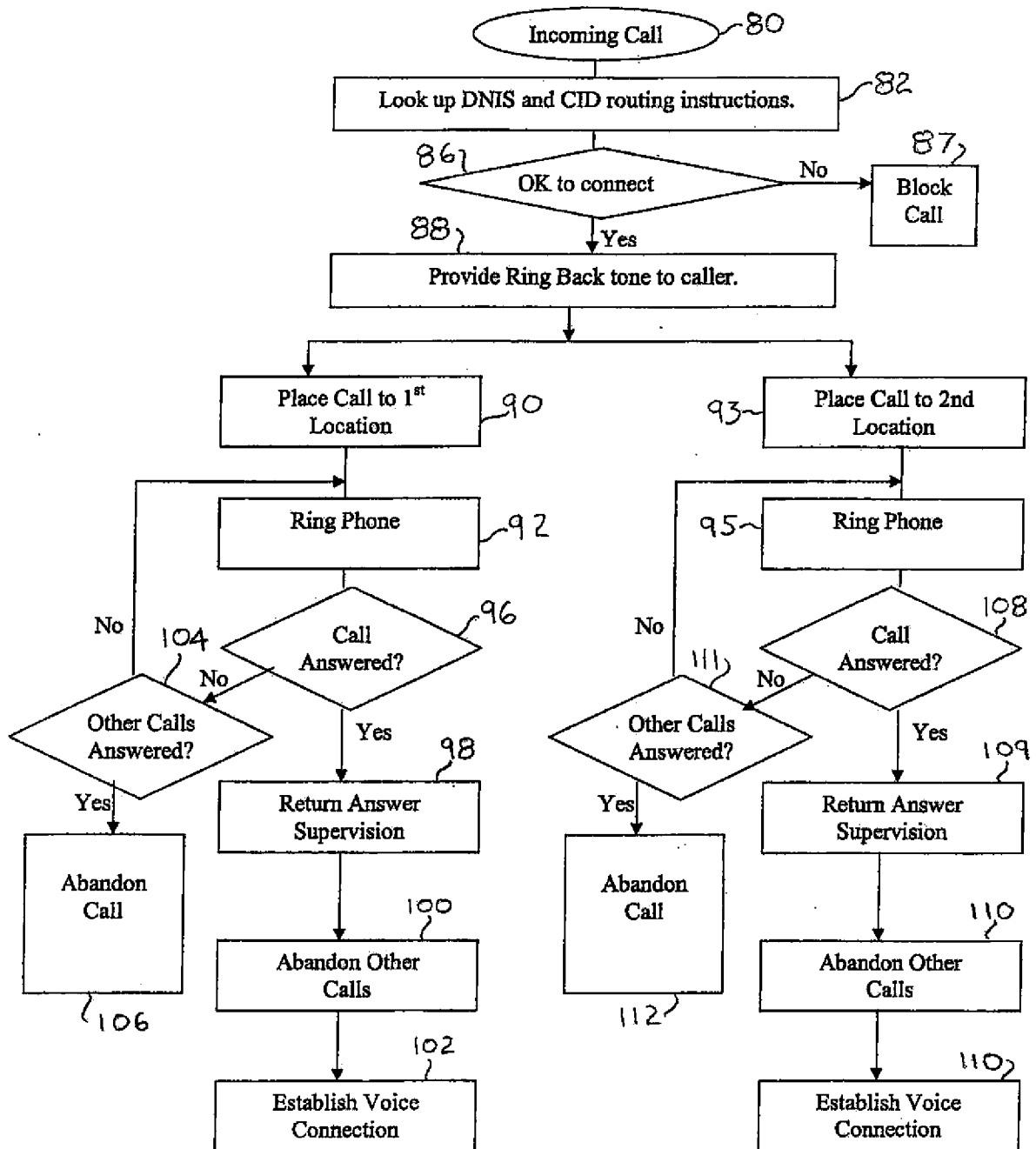


FIG. 10

**DECLARATION FOR PATENT APPLICATION
AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below adjacent to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of subject matter (process, machine, manufacture, or composition of matter, or an improvement thereof) which is claimed and for which a patent is sought by way of the application entitled

**BRANCH CALLING AND CALLER ID BASED CALL ROUTING
TELEPHONE FEATURES**

which (check) is attached hereto.
 and is amended by the Preliminary Amendment attached hereto.
 was filed on April 30, 2003 as Application Serial No. 10/426,279
 and was amended on (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

Prior Foreign Application(s)			Priority Claimed	
Number	Country	Day/Month/Year Filed	Yes	No
N/A			<input type="checkbox"/>	<input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

Provisional Application Number	Filing Date
N/A	

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or PCT international application(s) designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information, which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56, which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

Application Serial No.	Filing Date	Status (patented, pending, abandoned)
09/565,565	May 4, 2000	Now Patent 6,574,328

I hereby appoint the following practitioners to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith:

Customer Number



32566

PATENT TRADEMARK OFFICE

Please address all correspondence and telephone calls to:

Brian D. Ogonowsky
 Patent Law Group LLP
 2635 North First Street, Suite 223
 San Jose, California 95134-2049
 Phone: (408) 382-0480
 Fax: (408) 382-0481

I declare that all statements made herein of my own knowledge are true, all statements made herein on information and belief are believed to be true, and all statements made herein are made with the knowledge that whoever, in any matter within the jurisdiction of the Patent and Trademark Office, knowingly and willfully falsifies, conceals, or covers up by any trick, scheme, or device a material fact, or makes any false, fictitious or fraudulent statements or representations, or makes or uses any false writing or document knowing the same to contain any false, fictitious or fraudulent statement or entry, shall be subject to the penalties including fine or imprisonment or both as set forth under 18 U.S.C. 1001, and that violations of this paragraph may jeopardize the validity of the application or this document, or the validity or enforceability of any patent, trademark registration, or certificate resulting therefrom.

Full name of first joint inventor: Samuel F. Wood

Inventor's Signature:

Date:

1-10-05

Residence:

Los Altos, California


Post Office Address:

12648 La Cresta Court
 Los Altos Hills, CA 94022

Citizenship:

USA

Full name of second joint inventor: Jerry A. Klein

Inventor's Signature: 

Date:

1-10-05

Residence:

Los Altos, California

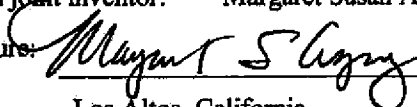
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Citizenship:

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Full name of third joint inventor: Margaret Susan Asprey

Inventor's Signature: 

Date:

1/10/05

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Post Office Address:

422 Traverso Court
Los Altos, CA 94022

Citizenship:

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POWER OF ATTORNEY OR REVOCATION OF POWER OF ATTORNEY WITH A NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS	Application Number	11/428,622
	Filing Date	July 5, 2008
	First Named Inventor	Wood
	Title	Tandem Access Controller Within The Public Switched Telephone Network
	Art Unit	2614
	Examiner Name	Al Aouadi, Rasha S.
Attorney Docket Number	357323-893123	

I hereby revoke all previous powers of attorney given in the above-identified application.

 A Power of Attorney is submitted herewith

OR

 I hereby appoint Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

26379

OR

 I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

Practitioner(s) Name	Registration Number

Please recognize or change the correspondence address for the above-identified application to:

 The address associated with the above-mentioned Customer Number.

OR

 The address associated with Customer Number: Firm or Individual Name

Address

City

State

Zip

Country

Telephone

E-mail

I am the:

 Applicant/Inventor.

OR

 Assignee of record of the entire interest. See 37 CFR 3.71.

Statement under 37 CFR 3.73(b) (Form PTO/SB/06) submitted herewith or filed on _____

SIGNATURE of Applicant or Assignee of Record

Signature

Date

Name

Telephone

Title and Company

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

 *Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.91, 1.92 and 1.93. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1480, Alexandria, VA 22313-1480. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1480, Alexandria, VA 22313-1480.

If you need assistance in completing the form, call 1-800-PTO-0199 and select option 2.

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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Wood, Samuel F.; Klein, Jerry A. & Asprey, Margaret Susan

Application No./Patent No.: 11/428,822 Filed/Issue Date: July 5, 2006

Entitled: Tandem Access Controller Within The Public Switched Telephone Network

Telemaze LLC a corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

- 1. the assignee of the entire right, title, and interest in;
- 2. an assignee of less than the entire right, title and interest in (The extent (by percentage) of its ownership interest is _____ %); or
- 3. the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

in the patent application/patent identified above by virtue of either:

A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Wood, Samuel F. & Klein, Jerry A. To: Telemaze, Inc.

The document was recorded in the United States Patent and Trademark Office at Reel Q14034, Frame 0043, or for which a copy thereof is attached.

2. From: Asprey, Margaret Susan To: Telemaze, Inc.

The document was recorded in the United States Patent and Trademark Office at Reel Q15613, Frame 0259, or for which a copy thereof is attached.

3. From: Telemaze, Inc. To: Telemaze LLC

The document was recorded in the United States Patent and Trademark Office at Reel Q16844, Frame 0708, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet(s).

As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

(NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08)

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

[Signature]
Signature

1/5/12
Date

Jerry Klein
Printed or Typed Name

Managing Director,
Telemaze LLC
Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is so far as by the USPTO to process an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual user. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1460, Alexandria, VA 22313-1460.

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