

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6194912

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	CHANGE OF NAME	
CONVEYING PARTY DATA		
Name		Execution Date
VPN MULTICAST TECHNOLOGIES LLC		08/31/2016
RECEIVING PARTY DATA		
Name:	MEETRIX IP, LLC	
Street Address:	12100 WILSHIRE BOULEVARD SUITE 127	
City:	SAN JOSE	
State/Country:	CALIFORNIA	
Postal Code:	95118	
PROPERTY NUMBERS Total: 7		
Property Type	Number	
Patent Number:	7444425	
Patent Number:	7664056	
Patent Number:	8339997	
Patent Number:	8477778	
Patent Number:	9094525	
Patent Number:	9253332	
Patent Number:	9843612	
CORRESPONDENCE DATA		
Fax Number:		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
Email:	mcatelani@anixa.com	
Correspondent Name:	MIKE CATELANI	
Address Line 1:	3150 ALMADEN EXPRESSWAY SUITE 250	
Address Line 4:	SAN JOSE, CALIFORNIA 95118	
NAME OF SUBMITTER:	MIKE CATELANI	
SIGNATURE:	/MIKE CATELANI/	
DATE SIGNED:	07/10/2020	
This document serves as an Oath/Declaration (37 CFR 1.63).		
Total Attachments: 3		

source=Change_Name_Meetrix_IP#page1.tif

source=Change_Name_Meetrix_IP#page2.tif

source=Change_Name_Meetrix_IP#page3.tif

Form 424
(Revised 05/11)

Submit in duplicate to:
Secretary of State
P.O. Box 13697
Austin, TX 78711-3697
512 463-5555
FAX: 512/463-5709
Filing Fee: See instructions



This space reserved for office use.

Certificate of Amendment

FILED
In the Office of the
Secretary of State of Texas

SEP 01 2016

Corporations Section

Entity Information

The name of the filing entity is:

VPN Multicast Technologies, LLC

State the name of the entity as currently shown in the records of the secretary of state. If the amendment changes the name of the entity, state the old name and not the new name.

The filing entity is a: (Select the appropriate entity type below.)

- | | |
|---|---|
| ☐ For-profit Corporation | ☐ Professional Corporation |
| ☐ Nonprofit Corporation | ☐ Professional Limited Liability Company |
| ☐ Cooperative Association | ☐ Professional Association |
| ☒ Limited Liability Company | ☐ Limited Partnership |

The file number issued to the filing entity by the secretary of state is: 802075884

The date of formation of the entity is: 10/03/2014

Amendments

1. Amended Name

(If the purpose of the certificate of amendment is to change the name of the entity, use the following statement)

The amendment changes the certificate of formation to change the article or provision that names the filing entity. The article or provision is amended to read as follows:

The name of the filing entity is: (state the new name of the entity below)

Meetrix IP, LLC

The name of the entity must contain an organizational designation or accepted abbreviation of such term, as applicable.

2. Amended Registered Agent/Registered Office

The amendment changes the certificate of formation to change the article or provision stating the name of the registered agent and the registered office address of the filing entity. The article or provision is amended to read as follows:

RECEIVED

SEP 01 2016

Registered Agent
(Complete either A or B, but not both. Also complete C.)

☒ A. The registered agent is an organization (cannot be entity named above) by the name of:

Capitol Corporate Services

OR

☐ B. The registered agent is an individual resident of the state whose name is:

First Name	M.I.	Last Name	Suffix
------------	------	-----------	--------

The person executing this instrument affirms that the person designated as the new registered agent has consented to serve as registered agent.

C. The business address of the registered agent and the registered office address is:

206 E 9th Street, Suite 1300	Austin	TX	78701-4411
<i>Street Address (No P.O. Box)</i>	<i>City</i>	<i>State</i>	<i>Zip Code</i>

3. Other Added, Altered, or Deleted Provisions

Other changes or additions to the certificate of formation may be made in the space provided below. If the space provided is insufficient, incorporate the additional text by providing an attachment to this form. Please read the instructions to this form for further information on format.

Text Area (The attached addendum, if any, is incorporated herein by reference.)

☐ **Add** each of the following provisions to the certificate of formation. The identification or reference of the added provision and the full text are as follows:

☐ **Alter** each of the following provisions of the certificate of formation. The identification or reference of the altered provision and the full text of the provision as amended are as follows:

☐ **Delete** each of the provisions identified below from the certificate of formation.

Statement of Approval

The amendments to the certificate of formation have been approved in the manner required by the Texas Business Organizations Code and by the governing documents of the entity.

Effectiveness of Filing (Select either A, B, or C.)

- A. ☒ This document becomes effective when the document is filed by the secretary of state.
- B. ☐ This document becomes effective at a later date, which is not more than ninety (90) days from the date of signing. The delayed effective date is: _____
- C. ☐ This document takes effect upon the occurrence of a future event or fact, other than the passage of time. The 90th day after the date of signing is: _____

The following event or fact will cause the document to take effect in the manner described below:

Execution

The undersigned signs this document subject to the penalties imposed by law for the submission of a materially false or fraudulent instrument and certifies under penalty of perjury that the undersigned is authorized under the provisions of law governing the entity to execute the filing instrument.

Date: 8/31/16

By: Henry P Herms
Henry P Herms (Aug 31, 2016)

Signature of authorized person

Henry P Herms

Printed or typed name of authorized person (see instructions)

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
--	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Western District of Texas, Austin Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 1:18-CV-309-RP	DATE FILED 4/13/2018	U.S. DISTRICT COURT Western District of Texas, Austin Division
PLAINTIFF Meetrix IP, LLC		DEFENDANT Cisco Systems, Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8339997		
2 9094525		
3 9253332		
4 9843612		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY		
	☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading		
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK	
1			
2			
3			
4			
5			

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT Final Judgment Attached

CLERK Jeannette J. Clack	(BY) DEPUTY CLERK 	DATE 04/22/2019
------------------------------------	---	--------------------

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

IN THE UNITED STATES DISTRICT COURT
FOR THE WESTERN DISTRICT OF TEXAS
AUSTIN DIVISION

FILED

2019 APR 22 PM 2:54

MEETRIX IP, LLC,

PLAINTIFF,

V.

CISCO SYSTEMS, INC.,

DEFENDANT.

§
§
§
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§
§
§

CAUSE NO. 1:18-CV-309-LY

CLERK US DISTRICT COURT
WESTERN DISTRICT OF TEXAS
BY [Signature]
DEPUTY

FINAL JUDGMENT

Before the court is the above entitled cause of action. On April 19, 2019, the parties filed an Agreed Motion to Dismiss with Prejudice (Doc. #36), which the court granted by separate order. Accordingly, the court renders the following Final Judgment pursuant to Federal Rule of Civil Procedure 58.

IT IS HEREBY ORDERED that the case hereby **CLOSED**.

SIGNED this 22nd day of April, 2019.

[Signature]
LEE YEAKEL
UNITED STATES DISTRICT JUDGE

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Western District of Texas, Austin Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 1:18-CV-309-RP	DATE FILED 4/13/2018	U.S. DISTRICT COURT Western District of Texas, Austin Division
PLAINTIFF Meetrix IP, LLC		DEFENDANT Cisco Systems, Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 See Attached		
2 9253332		
3 9094525		
4 8339997		
5 9843612		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading		
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK	
1			
2			
3			
4			
5			

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK Jeannette J. Clack	(BY) DEPUTY CLERK 	DATE APR 13 2018
------------------------------------	---	----------------------------

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

CISCO SYSTEMS, INC.,
Petitioner

v.

MEETRIX IP, LLC,
Patent Owner.

Case IPR2019-00539 (Patent 9,253,332 B2)
Case IPR2019-00540 (Patent 9,253,332 B2)
Case IPR2019-00541 (Patent 9,094,525 B2)
Case IPR2019-00542 (Patent 9,094,525 B2)
Case IPR2019-00543 (Patent 9,843,612 B2)
Case IPR2019-00544 (Patent 9,843,612 B2)¹

Before KEVIN F. TURNER, GREGG I. ANDERSON, and
SCOTT B. HOWARD, *Administrative Patent Judges*.

ANDERSON, *Administrative Patent Judge*.

DECISION
Granting Joint Motion to Terminate
37 C.F.R. § 42.72

¹ The parties are not authorized to use this caption. The parties should use the caption applicable to the specific case.

Case IPR2019-00539 (Patent 9,253,332 B2)
Case IPR2019-00540 (Patent 9,253,332 B2)
Case IPR2019-00541 (Patent 9,094,525 B2)
Case IPR2019-00542 (Patent 9,094,525 B2)
Case IPR2019-00543 (Patent 9,843,612 B2)
Case IPR2019-00544 (Patent 9,843,612 B2)

INTRODUCTION

Per our email dated April 19, 2019, we authorized the filing of a motion to terminate the above identified proceedings (“’539 IPR,” “’540 IPR,” “’541 IPR,” “’542 IPR,” “’543 IPR,” and “’544 IPR” respectively, collectively “Settled IPRs”). Settled IPRs, Ex. 3001. The ’539 and ’540 IPRs challenge claims of U.S. Patent No. 9,253,332. The ’541 and ’542 IPRs challenge claims of U.S. Patent No. 9,094,525. The ’543 and ’544 IPRs challenge claims of U.S. Patent No. 9,843,612. Per our authorization, on May 3, 2019, Cisco Systems, Inc. (“Petitioner”) and Meetrix IP LLC. (“Patent Owner”) filed a Joint Motion to Dismiss the Petition (“Joint Motion”) for each proceeding. Settled IPRs, Paper 6. Concurrently with the filing of the Joint Motion, the parties filed a Joint Request to Treat Settlement Agreement as Business Confidential Information Pursuant to 35 U.S.C. § 317(b) (“Joint Request”). Settled IPRs, Paper 7; *see also* Ex. 1048 (Settlement and License Agreement (“Settlement Agreement”), Section 7. Confidentiality).

DISCUSSION

The Joint Motion in the Settle IPRs sets forth the parties’ agreement that they have settled their dispute with respect to the challenged patents and have reached agreement to seek termination the Settled IPRs. Settled IPRs, Paper 6, 2. A true and correct copy of the Settlement Agreement was filed with the Joint Motion as business confidential information pursuant to 35 U.S.C. § 317(b). *Id.*; *see* Exhibit 1048. The parties assert that there “are no collateral agreements or understandings made in connection with, or in contemplation of, the

Case IPR2019-00539 (Patent 9,253,332 B2)
Case IPR2019-00540 (Patent 9,253,332 B2)
Case IPR2019-00541 (Patent 9,094,525 B2)
Case IPR2019-00542 (Patent 9,094,525 B2)
Case IPR2019-00543 (Patent 9,843,612 B2)
Case IPR2019-00544 (Patent 9,843,612 B2)

termination” of the proceedings. Settled IPRs, Paper 6, 2. The parties request dismissal of the Settled IPRs. *Id.*

These proceedings are at a very early stage, no preliminary response has been filed, no institution decision has been entered, and trial has not commenced. We are persuaded that, under these circumstances, it is appropriate to dismiss all pending proceedings between the parties as identified above. *See* 37 C.F.R. § 42.72.

ORDER

Accordingly, it is:

ORDERED that the joint motion to terminate the proceedings is GRANTED, and the '539, '540, '541, '542, '543, and '544 IPR proceedings are hereby DISMISSED as to all parties;

FURTHER ORDERED that the parties' joint request to treat the Settlement Agreement confidential is GRANTED, and the specified exhibits shall be: (i) treated as business confidential information; (ii) kept separate from the files of U.S. Patent Nos. 9,253,332; 9,094,525; and 9,843,612; (iii) kept confidential from any third party; (iv) filed as "BOARD AND PARTIES ONLY" as accessible only to the Board and the parties to this proceeding; and (v) made available only to Federal Government agencies on written request, or to any person on a showing of good cause, under the provisions of 35 U.S.C. § 317(b) and 37 C.F.R. § 42.74(c); and

FURTHER ORDERED that a copy of this Order will be filed in the '539, '540, '541, '542, '543, and '544 IPR.

Case IPR2019-00539 (Patent 9,253,332 B2)
Case IPR2019-00540 (Patent 9,253,332 B2)
Case IPR2019-00541 (Patent 9,094,525 B2)
Case IPR2019-00542 (Patent 9,094,525 B2)
Case IPR2019-00543 (Patent 9,843,612 B2)
Case IPR2019-00544 (Patent 9,843,612 B2)

PETITIONER:

David L. McCombs
Theodore M. Foster
Gregory P. Huh
HAYNES AND BOONE, LLP
david.mccombs.ipr@haynesboone.com
ipr.theo.foster@haynesboone.com
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Gilbert A. Greene
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adinovo@dinovoprice.com
docketing@dinovoprice.com



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 NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/984,709	12/12/2017	9843612	207.0002-05000	1984

22882 7590 11/21/2017
MARTIN & FERRARO, LLP
1557 LAKE O'PINES STREET, NE
HARTVILLE, OH 44632

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 107 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):

Thomas Dye, Austin, TX;
VPN MULTICAST TECHNOLOGIES LLC, PLANO, TX;
Thomas Dundon, San Marcos, TX;

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.

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)

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.

22882 7590 08/08/2017
MARTIN & FERRARO, LLP
1557 LAKE O'PINES STREET, NE
HARTVILLE, OH 44632

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.
14/984,709	12/30/2015	Thomas Dye	207.0002-05000	1984

TITLE OF INVENTION: VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS

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	11/08/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
PARK, JUNG H	2411	370-260000

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,
- (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.

1 Martin & Ferraro, LLP

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

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

VPN MULTICAST TECHNOLOGIES, LLC

Plano, Texas

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 **50-1068** (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 /Amedeo F. Ferraro/

Date November 7, 2017

Typed or printed name Amedeo F. Ferraro

Registration No. 37,129

Electronic Patent Application Fee Transmittal

Application Number:	14984709			
Filing Date:	30-Dec-2015			
Title of Invention:	VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS			
First Named Inventor/Applicant Name:	Thomas Dye			
Filer:	Amedeo F. Ferraro/Chloe Hong			
Attorney Docket Number:	207.0002-05000			
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
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	2501	1	480	480

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				480

Electronic Acknowledgement Receipt

EFS ID:	30879204
Application Number:	14984709
International Application Number:	
Confirmation Number:	1984
Title of Invention:	VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS
First Named Inventor/Applicant Name:	Thomas Dye
Customer Number:	22882
Filer:	Amedeo F. Ferraro/Chloe Hong
Filer Authorized By:	Amedeo F. Ferraro
Attorney Docket Number:	207.0002-05000
Receipt Date:	07-NOV-2017
Filing Date:	30-DEC-2015
Time Stamp:	15:32:15
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$ 480
RAM confirmation Number	110817INTEFSW00002065501068
Deposit Account	
Authorized User	

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

Zoho Corp. and Zoho Corp. Pvt., Ltd.

Exhibit 1005 – 017

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)	Issue_Fee_207_02_05.pdf	87905	no	1
			edf23f1b94ee93178e622a9e3a94eb7c78f73bd0		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30387	no	2
			30eaab4ce87fe0f04f664410350ecbd84fe69d43		
Warnings:					
Information:					
Total Files Size (in bytes):			118292		
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. <u>New Applications Under 35 U.S.C. 111</u> 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. <u>National Stage of an International Application under 35 U.S.C. 371</u> 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. <u>New International Application Filed with the USPTO as a Receiving Office</u> 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
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/984,709	12/30/2015	Thomas Dye	207.0002-05000	1984

22882 7590 08/18/2017
MARTIN & FERRARO, LLP
1557 LAKE O'PINES STREET, NE
HARTVILLE, OH 44632

EXAMINER

PARK, JUNG H

ART UNIT	PAPER NUMBER
----------	--------------

2411

NOTIFICATION DATE	DELIVERY MODE
-------------------	---------------

08/18/2017

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):

USPTO-docketing@martinferraro.com

Supplemental Notice of Allowability	Application No. 14/984,709	Applicant(s) DYE ET AL.	
	Examiner JUNG PARK	Art Unit 2411	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 the IDS filed on 08/01/17.
☐ 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 1-29. 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/pph/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. ☐ Notice of References Cited (PTO-892) | 5. ☐ Examiner's Amendment/Comment |
| 2. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date <u>08/01/17</u> | 6. ☐ Examiner's Statement of Reasons for Allowance |
| 3. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 7. ☐ Other _____. |
| 4. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____. | |

/JUNG PARK/
Primary Examiner, Art Unit 2411

OMB 0651-0031

Substitute for FORM PTO-1449			Attorney Docket Number 207.0002-05000		Customer No. 22882	
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION			Applicant Thomas Dye et al.		Application Number 14/984,709	
(Use several sheets if necessary) Sheet <u>1</u> of <u>1</u>			Filing Date December 30, 2015		Group Art Unit 2411	Examiner Jung H. Park
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION (YES/NO)
NON PATENT LITERATURE DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
Lit. 3	VPN Multicast Technologies LLC v. AT&T Corp.; Defendant AT&T Corp.'s Preliminary Claim Constructions and Extrinsic Evidence; Civil Action No. 3:15-cv-02943-M; January 26, 2016; 6 pages.					
Lit. 3	VPN Multicast Technologies LLC v. AT&T Corp.; Plaintiff's Preliminary Claim Constructions and Identification of Extrinsic Evidence Pursuant to P.R. 4-2; Civil Action No. 3:15-cv-02943-M; January 26, 2016; 7 pages.					
EXAMINER	/JUNG H PARK/		DATE CONSIDERED		08/15/2017	
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.						



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

NOTICE OF ALLOWANCE AND FEE(S) DUE

22882 7590 08/08/2017
MARTIN & FERRARO, LLP
1557 LAKE O'PINES STREET, NE
HARTVILLE, OH 44632

EXAMINER

PARK, JUNG H

ART UNIT

PAPER NUMBER

2411

DATE MAILED: 08/08/2017

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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14/984,709

12/30/2015

Thomas Dye

207.0002-05000

1984

TITLE OF INVENTION: VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS

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	11/08/2017

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.

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

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.

22882 7590 08/08/2017
MARTIN & FERRARO, LLP
1557 LAKE O'PINES STREET, NE
HARTVILLE, OH 44632

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.
14/984,709	12/30/2015	Thomas Dye	207.0002-05000	1984

TITLE OF INVENTION: VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS

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	11/08/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
PARK, JUNG H	2411	370-260000

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 _____
- (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

(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

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 _____ (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 _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/984,709	12/30/2015	Thomas Dye	207.0002-05000	1984
22882 7590 08/08/2017 MARTIN & FERRARO, LLP 1557 LAKE O'PINES STREET, NE HARTVILLE, OH 44632			EXAMINER PARK, JUNG H	
			ART UNIT	PAPER NUMBER
			2411	
DATE MAILED: 08/08/2017				

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. 14/984,709	Applicant(s) DYE ET AL.	
	Examiner JUNG PARK	Art Unit 2411	AIA (First Inventor to File) Status No

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

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☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
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3. ☒ The allowed claim(s) is/are 1-29. 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/pph/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)).

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Attachment(s)

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

/JUNG PARK/
Primary Examiner, Art Unit 2411

DETAILED ACTION

Examiner's Comments

1. The arguments and/or remarks stated with the amendment filed on 07/24/17 are persuasive and T.D. filed on 07/24/17 overcomes the Double Patenting rejection and therefore, claims are allowable.

In most cases, the examiner's actions and the applicant's replies make evident the reasons for allowance, satisfying the "record as a whole" proviso of the rule. This is particularly true when applicant fully complies with 37 CFR 1.111 (b) and (c) and 37 CFR 1.133(b). Thus, where the examiner's actions clearly point out the reasons for rejection and the applicant's reply with arguments explicitly presents reasons why claims are patentable over the reference, the reasons for allowance are in all probability evident from the record and no statement should be necessary.

Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jung Park whose telephone number is 571-272-8565. The examiner can normally be reached on Mon-Fri during 7:00-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Lai can be reached on 571-272-9741. 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

Art Unit: 2411

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).

/Jung Park/

Primary Examiner, Art Unit 2411

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S18	186	((audio voice) adj conference) same (PSTN public adj switch\$3 adj telephone adj network) same (moderator call near2 initiat\$3 caller call\$3)	US-PGPUB; USPAT	OR	ON	2017/08/01 10:57
S19	1	S18 and @pd>"20170619"	US-PGPUB; USPAT	OR	ON	2017/08/01 10:58

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S20	1	(conference full adj duplex adj audio PSTN local adj moderator adj client gateway remote adj client VPN adj tunnel).clm.	US-PGPUB; USPAT	AND	ON	2017/08/01 13:59

8/ 1/ 2017 2:00:59 PM
C:\ Users\ jpark1\ Documents\ EAST\ Workspaces\ 14984709.wsp

Search Notes 	Application/Control No. 14984709	Applicant(s)/Patent Under Reexamination DYE ET AL.
	Examiner JUNG PARK	Art Unit 2411

CPC- SEARCHED		
Symbol	Date	Examiner
H04L12/4641 OR H04L63/0272 OR H04L12/185 OR H04L29/06027 OR H04L63/08	06/19/17	JP

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor search (Double Patenting)	06/19/17	JP
Key terms search with CPC symbols and text search in EAST	06/19/17	JP
UPDATED the previous search in EAST	08/01/17	JP

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
	Interference search history printout	08/01/17	JP

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Issue Classification 	Application/Control No. 14984709	Applicant(s)/Patent Under Reexamination DYE ET AL.	
	Examiner JUNG PARK	Art Unit 2411	

CPC						
Symbol					Type	Version
H04L		65		403	F	2013-01-01
H04N		7		15	I	2013-01-01
H04M		3		568	I	2013-01-01
H04L		12		1818	I	2013-01-01
H04L		12		4641	I	2013-01-01
H04L		29		06027	I	2013-01-01
H04M		3		567	I	2013-01-01
H04M		7		009	A	2013-01-01
H04M		7		1225	I	2013-01-01
H04M		2207		35	A	2013-01-01
H04L		65		1009	I	2013-01-01
H04L		65		4038	I	2013-01-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version

NONE		Total Claims Allowed:	
		29	
(Assistant Examiner)	(Date)	O.G. Print Claim(s)	O.G. Print Figure
/JUNG PARK/ Primary Examiner.Art Unit 2411	08/01/2017	1	5
(Primary Examiner)	(Date)		

Substitute for FORM PTO-1449			Attorney Docket Number 207.0002-05000		Customer No. 22882	
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION			Applicant Thomas Dye et al.		Application Number 14/984,709	
(Use several sheets if necessary) Sheet <u>1</u> of <u>1</u>			Filing Date December 30, 2015		Group Art Unit 2411	Examiner Jung H. Park
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION (YES/NO)
NON PATENT LITERATURE DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
Lit. 3	VPN Multicast Technologies LLC v. AT&T Corp.; Defendant AT&T Corp.'s Preliminary Claim Constructions and Extrinsic Evidence; Civil Action No. 3:15-cv-02943-M; January 26, 2016; 6 pages.					
Lit. 3	VPN Multicast Technologies LLC v. AT&T Corp.; Plaintiff's Preliminary Claim Constructions and Identification of Extrinsic Evidence Pursuant to P.R. 4-2; Civil Action No. 3:15-cv-02943-M; January 26, 2016; 7 pages.					
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 Patent Application Fee Transmittal

Application Number:	14984709			
Filing Date:	30-Dec-2015			
Title of Invention:	VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS			
First Named Inventor/Applicant Name:	Thomas Dye			
Filer:	Amedeo F. Ferraro/Chloe Hong			
Attorney Docket Number:	207.0002-05000			
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
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:				
SUBMISSION- INFORMATION DISCLOSURE STMT	2806	1	90	90
Total in USD (\$)				90

Electronic Acknowledgement Receipt

EFS ID:	29955003
Application Number:	14984709
International Application Number:	
Confirmation Number:	1984
Title of Invention:	VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS
First Named Inventor/Applicant Name:	Thomas Dye
Customer Number:	22882
Filer:	Amedeo F. Ferraro/Chloe Hong
Filer Authorized By:	Amedeo F. Ferraro
Attorney Docket Number:	207.0002-05000
Receipt Date:	01-AUG-2017
Filing Date:	30-DEC-2015
Time Stamp:	21:07:54
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$90
RAM confirmation Number	080217INTEFSW00006945501068
Deposit Account	
Authorized User	

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

Zoho Corp. and Zoho Corp. Pvt., Ltd.

Exhibit 1005 – 037

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	IDS.pdf	113167	no	3
			8eff17fde4da934d5a905d65a7fc4c7908eb82bd		
Warnings:					
Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	SB08.pdf	108586	no	1
			054dbc2ab9b41f00abbfd8a8861fa6461744d323		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
3	Non Patent Literature	ATT_Preliminary_CCs_and_Extrinsic_Evid.pdf	107143	no	6
			795b62b988bf1596ce6456e734e2c08c10b9f34c		
Warnings:					
Information:					
4	Non Patent Literature	Plaintiff_Preliminary_CC_and_Extrinsic_E.pdf	1587359	no	7
			dc85beabae81eb3697c553b32d82c10c3147781e		
Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	30596	no	2
			8922e61f9a339b2d50278cc7f270ed1d707c296b		
Warnings:					
Information:					
Total Files Size (in bytes):			1946851		

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

In re Application of:	)	Confirmation No.: 1984
Thomas Dye et al.	)	
Serial No.: 14/984,709	)	Group Art Unit: 2411
Filed: December 30, 2015	)	Examiner: Jung H. Park
For: VOICE CONFERENCE CALL	)	
USING PSTN AND INTERNET	)	
NETWORKS	)	

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

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(c)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(c), Applicant brings to the attention of the Examiner the documents listed on the attached Form PTO/SB/08. This Information Disclosure Statement is being filed after the events recited in Section 1.97(b) but, to the undersigned's knowledge, before the mailing date of either a Final Action or a Notice of Allowance. Under the provisions of 37 C.F.R. § 1.97(c), this Information Disclosure Statement is accompanied by a fee of \$90.00 as specified by Section 1.17(p).

The present Application is a continuation of Application No. 13/674,227, filed November 12, 2012, now U.S. Patent No. 9,253,332 ("332 patent"); which is a continuation of Application No. 12/646,892, filed December 23, 2009, now U.S. Patent No. 8,339,997 ("997 patent"); which is a continuation of Application No. 10/796,560, filed March 9, 2004, now U.S. Patent No. 7,664,056; which claims priority under 35 U.S.C. 119(e) to U.S. Provisional Patent Application No. 60/453,307, filed March 10, 2003.

Applicant brings to the Examiner's attention Application Nos. 13/674,233, filed November 12, 2012, now U.S. Patent No. 9,094,525 ("525 patent"); 10/772,012, filed February 4, 2004, now U.S. Patent No. 7,444,425; 12/237,286, filed September 24,

2008, now U.S. Patent No. 8,477,778 ("778 patent"); and 14/590,791, filed January 6, 2015, which is pending.

Copies of the listed non-U.S. patent documents are attached. Applicant respectfully requests that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

Applicant brings to the Examiner's attention that the '778 patent was the subject of litigation in the United States District Court for the Eastern District of Texas, Marshall Division, Civil Action No. 2:14-cv-1013 hereinafter referred to as Litigation 1, which was terminated on September 10, 2015.

The '778 patent is also the subject of litigation in the United States District Court for the Eastern District of Texas, Marshall Division, Civil Action No. 2:14-cv-1014 hereinafter referred to as Litigation 2, which was terminated on June 22, 2015.

Applicant brings to the Examiner's attention that the '778 patent was the subject of litigation in the United States District Court for the Northern District of Texas, Dallas Division, Civil Action No. 3:15-cv-02943 hereinafter referred to as Litigation 3, which was terminated on September 1, 2016. The documents associated with Litigation 3 are identified by the designation "Lit. 3" in the Examiner initial column of the attached Form PTO/SB/08.

Applicant also brings to the Examiner's attention that the '332 patent, the '525 patent, and the '997 patent are the subject of litigation in the United States District Court for the Western District of Texas, Austin Division, Civil Action No. 1:16-cv-1033 hereinafter referred to as Litigation 4.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claims in the application and Applicant determines that the cited documents do not constitute "prior art" under United States law, Applicant reserves the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 50-1068.

Respectfully submitted,

MARTIN & FERRARO, LLP

Date: August 1, 2017

By: /Amedeo F. Ferraro/
Amedeo F. Ferraro
Registration No. 37,129

17383 Sunset Boulevard, Suite 250
Los Angeles, California 90272
Telephone: (310) 286-9800
Facsimile: (310) 286-2795

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	Confirmation No.: 1984
Thomas Dye et al.	)	
Serial No.: 14/984,709	)	Group Art Unit: 2411
Filed: December 30, 2015	)	Examiner: Jung H. Park
For: VOICE CONFERENCE CALL	)	
USING PSTN AND INTERNET	)	
NETWORKS	)	

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

Sir:

AMENDMENT

In reply to the Office Action dated June 23, 2017, please amend the application as follows:

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

Remarks begin on page 3 of this paper.

Amendments to the Specification:

Please replace paragraph 1 on page 1 with the following amended paragraph:

-- This application is a Continuation of U.S. Patent Application No. 13/674,227 (now U.S. Patent No. 9,253,332), filed November 12, 2012 (~~Publication No. 2013/0163480~~); which is a Continuation of U.S. Patent Application No. 12/646,892 (now U.S. Patent No. 8,339,997), filed December 23, 2009; which is a Continuation of U.S. Patent Application No. 10/796,560 (now U.S. Patent No. 7,664,056), filed March 9, 2004; which claims priority under 35 U.S.C. 119(e) to U.S. Provisional Patent Application No. 60/453,307, filed March 10, 2003, all of which are incorporated by reference herein in their entirety.--

REMARKS

I. Specification Objection.

In the Office Action, the disclosure was objected to because of informalities. The first paragraph of the specification has been amended to include Patent No. 9,253,332. Therefore, Applicant respectfully submits that the objection to the specification has been overcome.

II. Double Patenting Rejection.

The Examiner rejected claims 1-29 under the judicially created doctrine of nonstatutory obviousness-type double patenting as allegedly being unpatentable over claims 1-12 of U.S. Patent No. 9,253,332. Applicant is submitting concurrently with this Amendment an electronic Terminal Disclaimer of the terminal part of any patent granted in the present application which would extend beyond the expiration of U.S. Patent No. 9,253,332. Applicant submits that the obviousness-type double patenting rejection has been overcome.

III. Conclusion.

Applicant submits that independent claims 1, 10, 19, and 25 are patentable and that dependent claims 2-9, 11-18, 20-24, and 26-29 dependent from independent claims 1, 10, 19, or 25, or claims dependent therefrom, are patentable at least due to their dependency from an allowable independent claim.

In view of the foregoing remarks, it is respectfully submitted that the claims are patentable. Therefore, it is requested that the Examiner reconsider the outstanding rejections in view of the preceding comments. Issuance of a timely Notice of Allowance of the claims is earnestly solicited.

To the extent any extension of time under 37 C.F.R. § 1.136 is required to obtain entry of this reply, such extension is hereby respectfully requested. If there are any fees due under 37 C.F.R. §§ 1.16 or 1.17 which are not enclosed herewith, including any

fees required for an extension of time under 37 C.F.R. § 1.136, please charge such fees to our Deposit Account No. 50-1068.

Respectfully submitted,

MARTIN & FERRARO, LLP

Date: July 24, 2017

By: /Amedeo F. Ferraro/
Amedeo F. Ferraro
Registration No. 37,129

17383 Sunset Boulevard, Suite 250
Los Angeles, California 90272
Telephone: (310) 286-9800
Facsimile: (310) 286-2795

Electronic Acknowledgement Receipt

EFS ID:	29874619
Application Number:	14984709
International Application Number:	
Confirmation Number:	1984
Title of Invention:	VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS
First Named Inventor/Applicant Name:	Thomas Dye
Customer Number:	22882
Filer:	Amedeo F. Ferraro/Chloe Hong
Filer Authorized By:	Amedeo F. Ferraro
Attorney Docket Number:	207.0002-05000
Receipt Date:	24-JUL-2017
Filing Date:	30-DEC-2015
Time Stamp:	19:50:32
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	Transmittal Letter	Transmittal_of_Amendment. pdf	50266 0a2a22d731304cb3345c63e55877326de9d77bf1	no	1

Warnings:

Zoho Corp. and Zoho Corp. Pvt., Ltd.

Exhibit 1005 – 047

Information:					
2		Amendment.pdf	90659	yes	4
			d722bdd628bda4e4c33d94f0ddf252d1bf1ed824		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Amendment/Req. Reconsideration-After Non-Final Reject		1	1	
	Specification		2	2	
	Applicant Arguments/Remarks Made in an Amendment		3	4	
Warnings:					
Information:					
Total Files Size (in bytes):			140925		
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. <u>New Applications Under 35 U.S.C. 111</u> 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. <u>National Stage of an International Application under 35 U.S.C. 371</u> 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. <u>New International Application Filed with the USPTO as a Receiving Office</u> 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

In re application of:
Thomas Dye et al.
Serial No: 14/984,709
Filed: December 30, 2015
For: VOICE CONFERENCE CALL USING PSTN
AND INTERNET NETWORKS

Confirmation No.: 1984

Art Unit: 2411
Examiner: Jung H. Park

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

Dear Sir:

Transmitted herewith is a reply to the Office Action dated June 23, 2017 in the above-identified application.

- ☐ No additional fee is required.
- ☐ Applicant hereby requests a ___-month extension of time to respond to the above office action.
- ☒ An e-Terminal Disclaimer is enclosed.
- ☐ An Information Disclosure Statement (IDS) Under 37 C.F.R. § 1.97() with Form PTO/SB/08 is enclosed.
- ☒ The total amount of \$160 to cover the above e-Terminal Disclaimer fee is to be charged to Deposit Account No. 50-1068.
- ☒ The Commissioner is hereby authorized to charge any deficiencies of fees associated with this communication or credit any overpayment to Deposit Account No. 50-1068.
 - ☒ Any filing fees under 37 C.F.R. § 1.16 for the presentation of extra claims
 - ☒ Any patent application processing fees under 37 C.F.R. § 1.17

Respectfully submitted,

MARTIN & FERRARO, LLP

Date: July 24, 2017

By: /Amedeo F. Ferraro/
Amedeo F. Ferraro
Registration No. 37,129

17383 Sunset Boulevard, Suite 250
Los Angeles, California 90272
Telephone: (310) 286-9800
Facsimile: (310) 286-2795

Doc Code: DIST.E.FILE Document Description: Electronic Terminal Disclaimer - Filed		PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce
Electronic Petition Request	TERMINAL DISCLAIMER TO OBIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT	
Application Number	14984709	
Filing Date	30-Dec-2015	
First Named Inventor	Thomas Dye	
Attorney Docket Number	207.0002-05000	
Title of Invention	VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS	
☒ Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action ☒ This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.		
Owner	Percent Interest	
VPN MULTICAST TECHNOLOGIES, LLC	100%	
The owner(s) with percent interest listed above 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 number(s) 9253332 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. ☒ Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.		

Zoho Corp. and Zoho Corp. Pvt., Ltd.

☐ I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.	
Applicant claims the following fee status: ☒ Small Entity ☐ Micro Entity ☐ Regular Undiscounted	
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.	
THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES I certify, in accordance with 37 CFR 1.4(d)(4) that I am: ☒ An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application Registration Number <u>37129</u> ☐ A sole inventor ☐ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application ☐ A joint inventor; all of whom are signing this request	
Signature	/AMEDEO F. FERRARO/
Name	AMEDEO F. FERRARO

*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.

Electronic Patent Application Fee Transmittal

Application Number:	14984709			
Filing Date:	30-Dec-2015			
Title of Invention:	VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS			
First Named Inventor/Applicant Name:	Thomas Dye			
Filer:	Amedeo F. Ferraro/Chloe Hong			
Attorney Docket Number:	207.0002-05000			
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
STATUTORY OR TERMINAL DISCLAIMER	2814	1	160	160
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				160

Doc Code: DISQ.E.FILE

Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 14984709

Filing Date: 30-Dec-2015

Applicant/Patent under Reexamination: Dye

Electronic Terminal Disclaimer filed on July 24, 2017

☒ APPROVED

This patent is subject to a terminal disclaimer

☐ DISAPPROVED

Approved/Disapproved by: Electronic Terminal Disclaimer automatically approved by EFS-Web

U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt

EFS ID:	29875888
Application Number:	14984709
International Application Number:	
Confirmation Number:	1984
Title of Invention:	VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS
First Named Inventor/Applicant Name:	Thomas Dye
Customer Number:	22882
Filer:	Amedeo F. Ferraro/Chloe Hong
Filer Authorized By:	Amedeo F. Ferraro
Attorney Docket Number:	207.0002-05000
Receipt Date:	24-JUL-2017
Filing Date:	30-DEC-2015
Time Stamp:	19:59:01
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$ 160
RAM confirmation Number	072517INTEFSW00006702501068
Deposit Account	
Authorized User	

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

Zoho Corp. and Zoho Corp. Pvt., Ltd.

Exhibit 1005 – 055

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	33580	no	2
			3105906a75756ad0bd1b8c1016c4d72f1cf16a7c		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30529	no	2
			2625394fc89c674a8b56f44454bd6def0fcf4275		
Warnings:					
Information:					
Total Files Size (in bytes):			64109		
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. <u>New Applications Under 35 U.S.C. 111</u> 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. <u>National Stage of an International Application under 35 U.S.C. 371</u> 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. <u>New International Application Filed with the USPTO as a Receiving Office</u> 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
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/984,709	12/30/2015	Thomas Dye	207.0002-05000	1984

22882 7590 06/23/2017
MARTIN & FERRARO, LLP
1557 LAKE O'PINES STREET, NE
HARTVILLE, OH 44632

EXAMINER

PARK, JUNG H

ART UNIT	PAPER NUMBER
----------	--------------

2411

NOTIFICATION DATE	DELIVERY MODE
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06/23/2017

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):

USPTO-docketing@martinferraro.com

Office Action Summary	Application No. 14/984,709	Applicant(s) DYE ET AL.	
	Examiner JUNG PARK	Art Unit 2411	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 12/30/15.
☐ 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) 1-29 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) 1-29 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 12/30/15 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 12/30/15.
- 3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 4) ☐ Other: ____.

DETAILED ACTION

Specification Objections

1. The disclosure is objected to because of the following informalities:

It is required that continuing data is consistent in 1st paragraph of specification and Bib data sheet and therefore, it is necessary to update Patent No. 9,253,332.

Appropriate correction is required.

Double Patenting

2. 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. See *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) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b). 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).

The USPTO internet Web site contains terminal disclaimer forms which may be used. Please visit <http://www.uspto.gov/forms/>. The filing date of the application will determine what form should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to <http://www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp>.

3. Claims 1-29 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-12 of U.S. Patent No. 9,253,332 (hereinafter '332). Although the conflicting claims are not identical, they are not

Art Unit: 2411

patentably distinct from each other because despite slight difference in wording, for example, claim 1 of '332 recites essentially all claimed subject matter of claim 1 in the present application.

“A later patent claim is not patentably distinct from an earlier patent claim if the later claim is obvious over, or anticipated by, the earlier claim. In re Longi, 759 F.2d at 896, 225 USPQ at 651 (affirming a holding of obviousness-type double patenting because the claims at issue were obvious over claims in four prior art patents); In re Berg, 140 F.3d at 1437, 46 USPQ2d at 1233 (Fed. Cir. 1998) (affirming a holding of obviousness type double patenting where a patent application claim to a genus is anticipated by a 35 patent claim to a species within that genus). “ELI LILLY AND COMPANY v BARR LABORATORIES, INC., United States Court of Appeals for the Federal Circuit, ON PETITION FOR REHEARING EN BANC (DECIDED: May 30, 2001).

Accordingly, absent a terminal disclaimer, claims 1-29 are properly rejected under the doctrine of obviousness-type double patenting.” (In re Goodman (CA FC) 29 USPQ2d 2010 (12/3/1993).

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jung Park whose telephone number is 571-272-8565. The examiner can normally be reached on Mon-Fri during 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Lai can be reached on 571-272-9741. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2411

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).

/Jung Park/

Primary Examiner, Art Unit 2411

Notice of References Cited	Application/Control No. 14/984,709		Applicant(s)/Patent Under Reexamination DYE ET AL.	
	Examiner JUNG PARK		Art Unit 2411	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-2003/0126207 A1	07-2003	Creamer, Thomas E.	H04L12/1818	709/204
*	B	US-2004/0239754 A1	12-2004	Shachar, Yair	H04L12/1818	348/14.08
*	C	US-2003/0224815 A1	12-2003	Rodman, Jeffrey	H04L12/66	455/517
	D	US-				
	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	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		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. 14984709	Applicant(s)/Patent Under Reexamination DYE ET AL.
	Examiner JUNG PARK	Art Unit 2411

CPC- SEARCHED		
Symbol	Date	Examiner
H04L12/4641 OR H04L63/0272 OR H04L12/185 OR H04L29/06027 OR H04L63/08	06/19/17	JP

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor search (Double Patenting)	06/19/17	JP
Key terms search with CPC symbols and text search in EAST	06/19/17	JP

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

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BIB DATA SHEET

CONFIRMATION NO. 1984

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
14/984,709	12/30/2015	370	2411	207.0002-05000

APPLICANTS
 VPN MULTICAST TECHNOLOGIES LLC, PLANO, TX;

INVENTORS
 Thomas Dye, Austin, TX;
 Thomas Dundon, San Marcos, TX;

**** CONTINUING DATA *******
 This application is a CON of 13/674,227 11/12/2012 PAT 9253332
 which is a CON of 12/646,892 12/23/2009 PAT 8339997
 which is a CON of 10/796,560 03/09/2004 PAT 7664056
 which claims benefit of 60/453,307 03/10/2003

**** FOREIGN APPLICATIONS *******

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** ** SMALL ENTITY ****
 01/14/2016

Foreign Priority claimed 35 USC 119(a-d) conditions met Verified and Acknowledged	☐ Yes ☒ No ☐ Yes ☐ No /JUNG H PARK/ Examiner's Signature	☐ Met after Allowance Initials	STATE OR COUNTRY TX	SHEETS DRAWINGS 6	TOTAL CLAIMS 29	INDEPENDENT CLAIMS 4
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ADDRESS
 MARTIN & FERRARO, LLP
 1557 LAKE O'PINES STREET, NE
 HARTVILLE, OH 44632
 UNITED STATES

TITLE
 VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS

FILING FEE RECEIVED 1300	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	☐ All Fees
		☐ 1.16 Fees (Filing)
		☐ 1.17 Fees (Processing Ext. of time)
		☐ 1.18 Fees (Issue)
		☐ Other _____
		☐ Credit

OMB 0651-0031

Substitute for FORM PTO-1449			Attorney Docket Number 207.0002-05000		Customer No. 22882	
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION			Applicant Thomas Dye et al.		Application Number (Cont. of 13/674,227)	
(Use several sheets if necessary) Sheet <u>1</u> of <u>3</u>			Filing Date December 30, 2015		Group Art Unit N/A	Examiner N/A
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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Application Number: (Cont. of 13/674,227)

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EXAMINER	/JUNG H PARK/	DATE CONSIDERED	06/19/2017
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.			

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	"20160112478".pn.	US-PGPUB; USPAT	OR	ON	2017/06/16 20:31
S3	2	("7564834").PN. ("6728358").PN.	US-PGPUB; USPAT	OR	ON	2017/06/16 20:33
S4	42	("5805805" "6041166" "6047325" "6298062" "6526056" "6640251" "6728358" "6751477" "6778531" "6788681" "6870842" "6977929" "6981022" "7203957" "7281058" "7330468" "7339929" "7366894" "7461157" "7444425" "7447203" "7447901" "7562386" "7564834" "7570648" "7653192" "7664056" "7724744" "7830787" "8339997" "8477778" "9094525" "20020016926" "20020029350" "20030110288" "20030137976" "20030147392" "20030235338" "20040022322" "20060039388" "20100228879" "20130163480" "14590791").PN.	US-PGPUB; USPAT	OR	ON	2017/06/19 08:52
S5	30	S4 AND ((H04L12/4641 OR H04L63/0272 OR H04L12/185 OR H04L29/06027 OR H04L63/08).CPC.)	US-PGPUB; USPAT	OR	ON	2017/06/19 08:52
S6	87	Dye near2 Thomas.in. Dundon near2 Thomas.in.	US-PGPUB; USPAT	OR	ON	2017/06/19 09:10
S7	0	S6 and (dial adj out public adj switch\$3 adj telephone adj network local adj moderator adio adj data gateway virtual adj private adj network collaboration adj data VPN adj tunnel).dm.	US-PGPUB; USPAT	AND	ON	2017/06/19 09:12
S8	34	(voice adj conference) with PSTN	US-PGPUB; USPAT	OR	ON	2017/06/19 09:25
S9	4749412	@rlad<"20030310" @ad<"20030310"	US-PGPUB; USPAT	OR	ON	2017/06/19 09:25
S10	7	S8 and S9	US-PGPUB; USPAT	OR	ON	2017/06/19 09:25
S11	16	(voice adj conference) same (PSTN public adj switch\$3 adj telephone adj network) same (moderator call near2 initiat\$3 caller)	US-PGPUB; USPAT	OR	ON	2017/06/19 09:32
S12	2	"9253332".pn. "833997".pn. "7664056".pn.	US-PGPUB; USPAT	OR	ON	2017/06/19 09:35
S13	3	"9253332".pn. "8339997".pn.	US-	OR	ON	2017/06/19

		"7664056".pn.	PGPUB; USPAT			09:35
S14	185	((audio voice) adj conference) same (PSTN public adj switch\$3 adj telephone adj network) same (moderator call near2 initiat\$3 caller call\$3)	US- PGPUB; USPAT	OR	ON	2017/06/19 09:46
S15	61	S14 and S9	US- PGPUB; USPAT	OR	ON	2017/06/19 09:46
S16	30	((audio voice) adj conference) same (PSTN public adj switch\$3 adj telephone adj network) same (moderator call near2 initiat\$3 caller call\$3) and (VPN virtual adj private adj network)	US- PGPUB; USPAT	OR	ON	2017/06/19 10:39
S17	6	S16 and S9	US- PGPUB; USPAT	OR	ON	2017/06/19 10:39

EAST Search History (I nterference)

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<i>Index of Claims</i> 	Application/Control No. 14984709	Applicant(s)/Patent Under Reexamination DYE ET AL.
	Examiner JUNG PARK	Art Unit 2411

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant		☐ CPA		☐ T.D.		☐ R.1.47			
CLAIM		DATE							
Final	Original	06/19/2017							
	1	✓							
	2	✓							
	3	✓							
	4	✓							
	5	✓							
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/984,709	12/30/2015	Thomas Dye	207.0002-05000

CONFIRMATION NO. 1984

PUBLICATION NOTICE



OC000000082354501

22882
MARTIN & FERRARO, LLP
1557 LAKE O'PINES STREET, NE
HARTVILLE, OH 44632

Title:VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS

Publication No.US-2016-0112478-A1

Publication Date:04/21/2016

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/>.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

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.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

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 14/984,709	
APPLICATION AS FILED - PART I							
(Column 1)		(Column 2)		SMALL ENTITY		OTHER THAN SMALL ENTITY	
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	70		N/A	
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	300		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	360		N/A	
TOTAL CLAIMS (37 CFR 1.16(j))	29	minus 20 = * 9	x 40 =	360	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	4	minus 3 = * 1	x 210 =	210			
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).			0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00			
			TOTAL	1300		TOTAL	
* If the difference in column 1 is less than zero, enter "0" in column 2.							
APPLICATION AS AMENDED - PART II							
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY	
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)
	Total (37 CFR 1.16(i))	*	Minus **	=	x =	OR	x =
	Independent (37 CFR 1.16(h))	*	Minus ***	=	x =	OR	x =
	Application Size Fee (37 CFR 1.16(s))					OR	
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					OR	
				TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY	
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)
	Total (37 CFR 1.16(i))	*	Minus **	=	x =	OR	x =
	Independent (37 CFR 1.16(h))	*	Minus ***	=	x =	OR	x =
	Application Size Fee (37 CFR 1.16(s))					OR	
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					OR	
				TOTAL ADD'L FEE		OR	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 found in the appropriate box in column 1.							



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	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
14/984,709	12/30/2015	2447	1300	207.0002-05000	29	4

CONFIRMATION NO. 1984

FILING RECEIPT



0000000079934977

22882
MARTIN & FERRARO, LLP
1557 LAKE O'PINES STREET, NE
HARTVILLE, OH 44632

Date Mailed: 01/15/2016

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**

Inventor(s)

Thomas Dye, Austin, TX;
Thomas Dundon, San Marcos, TX;

Applicant(s)

VPN MULTICAST TECHNOLOGIES LLC, PLANO, TX;

Power of Attorney: The patent practitioners associated with Customer Number 22882

Domestic Priority data as claimed by applicant

This application is a CON of 13/674,227 11/12/2012 PAT 9253332
which is a CON of 12/646,892 12/23/2009 PAT 8339997
which is a CON of 10/796,560 03/09/2004 PAT 7664056
which claims benefit of 60/453,307 03/10/2003

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 01/14/2016

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/984,709**

Projected Publication Date: 04/21/2016

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS

Preliminary Class

709

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

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 U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.

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.

STATEMENT UNDER 37 CFR 3.73(c)Applicant/Patent Owner: VPN MULTICAST TECHNOLOGIES LLCApplication No./Patent No.: 14/984,709Filed/Issue Date: December 30, 2015Titled: VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKSVPN MULTICAST TECHNOLOGIES LLC, a Limited Liability Company

(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: Thomas Dye et al. To: Meetrix, Inc.The document was recorded in the United States Patent and Trademark Office at
Reel 034715, Frame 0212, or for which a copy thereof is attached.2. From: Trustee of Meetrix, Inc., Randolph N. Osherow To: Great West Capital, LLCThe document was recorded in the United States Patent and Trademark Office at
Reel 034759, Frame 0397, 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.

Zoho Corp. and Zoho Corp. Pvt., Ltd.

Exhibit 1005 – 076

STATEMENT UNDER 37 CFR 3.73(c)

3. From: Great West Capital, LLC To: Meetrix Communications, Inc.

The document was recorded in the United States Patent and Trademark Office at
Reel 29932, Frame 0913, or for which a copy thereof is attached.

4. From: Meetrix Communications, Inc. To: Copylete Patent Acquisition Corporation

The document was recorded in the United States Patent and Trademark Office at
Reel 34005, Frame 0249, or for which a copy thereof is attached.

5. From: Copylete Patent Acquisition Corporation To: ITUS Patent Acquisition Corporation

The document was recorded in the United States Patent and Trademark Office at
Reel 34032, Frame 0082, or for which a copy thereof is attached.

6. From: ITUS Patent Acquisition Corporation To: VPN Multicast Technologies LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 34005, Frame 0904, 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.

/Brent D. Martin/

Signature

Brent D. Martin

Printed or Typed Name

January 4, 2016

Date

62,717

Title or Registration 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.

Electronic Acknowledgement Receipt

EFS ID:	24514834
Application Number:	14984709
International Application Number:	
Confirmation Number:	1984
Title of Invention:	VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS
First Named Inventor/Applicant Name:	
Customer Number:	22882
Filer:	Brent David Martin/Sandra Blackmon
Filer Authorized By:	Brent David Martin
Attorney Docket Number:	207.0002-05000
Receipt Date:	04-JAN-2016
Filing Date:	
Time Stamp:	14:55:34
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
------------------------	----

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Assignee showing of ownership per 37 CFR 3.73	373c_Statement.pdf	124494 14c61375fb5b6ed7688382b69080cc116e5e3e74	no	3

Warnings:

Information:

Zoho Corp. and Zoho Corp. Pvt., Ltd.

Exhibit 1005 – 079

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.

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	(Cont. of 13/674,227)
Filing Date	December 30, 2015
First Named Inventor	Thomas Dye et al.
Title	VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS
Art Unit	(2656)
Examiner Name	(Suhan Ni)
Attorney Docket Number	207.0002-05000

SIGNATURE of Applicant or Patent Practitioner

Signature	/Brent D. Martin/	Date (Optional)	December 30, 2015
Name	Brent D. Martin	Registration Number	62,717
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.



*Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.131, 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.**

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number

Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)



I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above:

22882

OR



I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:



The address associated with the above-mentioned Customer Number

OR



The address associated with Customer Number:

OR

Firm or
Individual Name

Address

City

State

Zip

Country

Telephone

Email

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

VPN MULTICAST TECHNOLOGIES LLC



Inventor or Joint Inventor (title not required below)



Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)



Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)



Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature

Date (Optional)

1/5/2015

Name

Tisha Stender

Title

Chief Operating Officer and Legal Counsel

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.



Total of

1

forms are submitted.

This collection of information is required by 37 CFR 1.131, 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.

Electronic Patent Application Fee Transmittal

Application Number:				
Filing Date:				
Title of Invention:	VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS			
First Named Inventor/Applicant Name:	Thomas Dye			
Filer:	Brent David Martin/Dottie Carper			
Attorney Docket Number:	207.0002-05000			
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	70	70
Utility Search Fee	2111	1	300	300
Utility Examination Fee	2311	1	360	360
Pages:				
Claims:				
Claims in excess of 20	2202	9	40	360
Independent Claims in Excess of 3	2201	1	210	210
Miscellaneous-Filing:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1300

Electronic Acknowledgement Receipt

EFS ID:	24495414
Application Number:	14984709
International Application Number:	
Confirmation Number:	1984
Title of Invention:	VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS
First Named Inventor/Applicant Name:	Thomas Dye
Customer Number:	22882
Filer:	Brent David Martin/Dottie Carper
Filer Authorized By:	Brent David Martin
Attorney Docket Number:	207.0002-05000
Receipt Date:	30-DEC-2015
Filing Date:	
Time Stamp:	16:42:23
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$ 1300
RAM confirmation Number	3664
Deposit Account	501068
Authorized User	MARTIN & FERRARO LLP

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 CFR 1.16 (National application filing, search, and examination fees)

Zoho Corp. and Zoho Corp. Pvt., Ltd.

Exhibit 1005 – 085

Charge any Additional Fees required under 37 CFR 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	Transmittal of New Application	Transmittal_for_Continuing_Application.pdf	63186	no	2
			b84afda1c75580dd387a812a9feae293c26f8d35		
Warnings:					
Information:					
2	Application Data Sheet	ADS.pdf	1823393	no	9
			20e4a90aad4ef83cb828f6d37e1d123834cd5197		
Warnings:					
Information:					
3	Oath or Declaration filed	Dye_Declaration.pdf	168827	no	1
			47f89fcbaf45f06d90d70f6c6a5236b3a93d1269		
Warnings:					
Information:					
4	Oath or Declaration filed	Dundon_Declaration.pdf	146049	no	1
			a03ab34817d794f3acc8a6fdff0487b284952c11		
Warnings:					
Information:					
5		Specification.pdf	17262006	yes	21
			56918e8fc10382ec9991def9f259f03ef96f8090		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	15	
	Claims		16	20	
	Abstract		21	21	
Warnings:					
Information:					
6	Drawings-only black and white line drawings	Drawings.pdf	182266	no	6
			d29556c76e0c30c0a60f56002be7d0b029072bd7		

Warnings:					
Information:					
7	Transmittal Letter	IDS.pdf	68473 3efaa54afb52118bb625e95bcd03e563c30b9b00	no	3
Warnings:					
Information:					
8	Information Disclosure Statement (IDS) Form (SB08)	PTO-SB08.pdf	107554 c2a2a89ff380b6487ae5a04b4675b4b621c011db	no	3
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
9	Power of Attorney	Power_of_Attorney.pdf	362845 619f41fd9aa56616e0ab85d55176e9dd1dd44ddd	no	2
Warnings:					
Information:					
10	Fee Worksheet (SB06)	fee-info.pdf	38297 1a7cf28533b03b0d679df3dccc2410354c0ca647	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			20222896		
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. <u>New Applications Under 35 U.S.C. 111</u> 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. <u>National Stage of an International Application under 35 U.S.C. 371</u> 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. <u>New International Application Filed with the USPTO as a Receiving Office</u> 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.					

Electronic Acknowledgement Receipt

EFS ID:	24495414
Application Number:	14984709
International Application Number:	
Confirmation Number:	1984
Title of Invention:	VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS
First Named Inventor/Applicant Name:	Thomas Dye
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Filer:	Brent David Martin/Dottie Carper
Filer Authorized By:	Brent David Martin
Attorney Docket Number:	207.0002-05000
Receipt Date:	30-DEC-2015
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Time Stamp:	16:42:23
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$ 1300
RAM confirmation Number	3664
Deposit Account	501068
Authorized User	MARTIN & FERRARO LLP

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 CFR 1.16 (National application filing, search, and examination fees)

Zoho Corp. and Zoho Corp. Pvt., Ltd.

Exhibit 1005 – 088

Charge any Additional Fees required under 37 CFR 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	Transmittal of New Application	Transmittal_for_Continuing_Application.pdf	63186	no	2
			b84afda1c75580dd387a812a9feae293c26f8d35		
Warnings:					
Information:					
2	Application Data Sheet	ADS.pdf	1823393	no	9
			20e4a90aad4ef83cb828f6d37e1d123834cd5197		
Warnings:					
Information:					
3	Oath or Declaration filed	Dye_Declaration.pdf	168827	no	1
			47f89fcbaf45f06d90d70f6c6a5236b3a93d1269		
Warnings:					
Information:					
4	Oath or Declaration filed	Dundon_Declaration.pdf	146049	no	1
			a03ab34817d794f3acc8a6fdff0487b284952c11		
Warnings:					
Information:					
5		Specification.pdf	17262006	yes	21
			56918e8fc10382ec9991def9f259f03ef96f8090		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	15	
	Claims		16	20	
	Abstract		21	21	
Warnings:					
Information:					
6	Drawings-only black and white line drawings	Drawings.pdf	182266	no	6
			d29556c76e0c30c0a60f56002be7d0b029072bd7		

Warnings:					
Information:					
7	Transmittal Letter	IDS.pdf	68473 3efaa54afb52118bb625e95bcd03e563c30b9b00	no	3
Warnings:					
Information:					
8	Information Disclosure Statement (IDS) Form (SB08)	PTO-SB08.pdf	107554 c2a2a89ff380b6487ae5a04b4675b4b621c011db	no	3
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
9	Power of Attorney	Power_of_Attorney.pdf	362845 619f41fd9aa56616e0ab85d55176e9dd1dd44ddd	no	2
Warnings:					
Information:					
10	Fee Worksheet (SB06)	fee-info.pdf	38297 1a7cf28533b03b0d679df3dccc2410354c0ca647	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			20222896		
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. <u>New Applications Under 35 U.S.C. 111</u> 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. <u>National Stage of an International Application under 35 U.S.C. 371</u> 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. <u>New International Application Filed with the USPTO as a Receiving Office</u> 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.					

Substitute for FORM PTO-1449			Attorney Docket Number 207.0002-05000		Customer No. 22882	
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION			Applicant Thomas Dye et al.		Application Number (Cont. of 13/674,227)	
(Use several sheets if necessary) Sheet <u>1</u> of <u>3</u>			Filing Date December 30, 2015		Group Art Unit N/A	Examiner N/A
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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	2013/0163480	6/2013	Dye			
	14/590,791	1/2015	Dye			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	WO 03003665	1/2003	WIPO			N/A
Lit. 1, Lit. 2	WO 01/91397 A2	11/2001	WIPO			N/A
Lit. 1, Lit. 2	WO 02/098063 A1	12/2002	WIPO			N/A

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

Lit. 1	VPN Multicast Technologies LLC v. AT&T Inc. and AT&T Corporation; Complaint; Case No. 2:14-cv-1013; October 31, 2014; 8 pages.
Lit. 2	VPN Multicast Technologies LLC v. Dimension Data North America, Inc., Dimension Data Holdings PLC, and Dimension Data, LLC; Complaint; Case No. 2:14-cv-1014; October 31, 2014; 8 pages.
Lit. 1, Lit. 2	VPN Multicast Technologies LLC v. AT&T Inc. and AT&T Corporation; VPN Multicast Technologies LLC v. Dimension Data North America, Inc., Dimension Data Holdings PLC, and Dimension Data, LLC; Dimension Data North America, Inc.'s Answer and Affirmative Defenses to Plaintiff's First Amended Complaint; Case Nos. 2:14-cv-1013 and 2:14-cv-1014; January 29, 2015; 15 pages.
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	International Search Report, International Application No. PCT/US2004/007341, mailed Sep. 7, 2004.
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Lit. 1, Lit. 2	Savetz et al., "MBONE: Multicasting Tomorrow's Internet," IDG Books Worldwide, Inc., 1996, 259 pgs.
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Lit. 1, Lit. 2	Wittmann et al., "Multicast Communication: Protocols and Applications," Morgan Kaufmann Publishers, 1999, 362 pgs.
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.	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Thomas Dye et al.

Serial No: (Cont. of 13/674,227)

Filed: December 30, 2015

For: VOICE CONFERENCE CALL USING PSTN
AND INTERNET NETWORKS

Prior Application Information:

Group Art Unit: 2656

Examiner: Suhan Ni

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

Dear Sir:

CONTINUING APPLICATION TRANSMITTALTransmitted herewith for filing is a ☒ Continuation ☐ Divisional ☐ Continuation-In-Part application under 37 C.F.R. § 1.53(b) of prior patent Application No. 13/674,227, filed November 12, 2012.

- ☒ Applicant claims small entity status under 37 C.F.R. §§ 1.9 and 1.27.
- ☒ Application Data Sheet 37 CFR 1.76 is enclosed.
- ☒ 21 total application pages including specification, claims (29 total and 4 independent), and abstract are enclosed.
- ☐ A newly executed Declaration ☐ is enclosed ☐ will follow.
- ☒ A copy of the Declarations from the prior application is enclosed.
- The entire disclosure of the prior application, from which an oath or declaration is supplied, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.
- ☒ 6 sheets of drawings (8.5 x 11; Figs. 1-6) are enclosed.
- ☐ A Recordation Cover Sheet and Assignment to: _____ is enclosed.
- ☒ The power of attorney in the prior application is to at least one of the following: MARTIN & FERRARO, LLP; Thomas H. Martin, Reg. No. 34,383; and Amedeo F. Ferraro, Reg. No. 37,129.
- ☐ A new Power of Attorney along with the requisite Transmittal is enclosed.
- ☒ A copy of the Power of Attorney in the prior application is enclosed along with the requisite Transmittal.
- ☐ A certified copy of _____ Patent Application No. _____ filed _____ from which priority is claimed under 35 U.S.C. § 119 is enclosed.
- ☒ Information Disclosure Statement (IDS) with Form PTO/SB/08 is enclosed.
- ☐ Amend the specification by rewriting paragraph 1 on page 1 to read as follows:
--This is a ☐ continuation ☐ divisional of application Serial No. _____, filed _____, and claims benefit of U.S. Provisional application No. _____, filed _____, all of which are incorporated herein by reference.--.
- ☐ Cancel Claims _____.
- ☐ An Amendment is enclosed.

CALCULATION OF FEES								
ITEM		TOTAL NO. OF CLAIMS		NO. OF CLAIMS OVER BASE	LG/SM \$ ENTITY FEE			\$ FEE
A	TOTAL CLAIMS FEE	29	-20	9	LG=\$80 SM=\$40	\$80	\$	360
B	INDEPENDENT CLAIMS FEE*	4	-3	1	LG=\$420 SM=\$210	\$420	\$	210
C	SUBTOTAL - ADDITIONAL CLAIMS FEE (ADD FINAL COLUMN IN LINES A + B)							\$ 570
D	MULTIPLE-DEPENDENT CLAIMS FEE					LARGE ENTITY FEE = \$780 SMALL ENTITY FEE = \$390		\$ 0
E	BASIC FEE					LARGE ENTITY FEE = \$280 SMALL ENTITY FEE = \$140 EFS SMALL ENTITY FEE = \$70		\$ 70
F	SEARCH FEE					LARGE ENTITY FEE = \$600 SMALL ENTITY FEE = \$300		\$ 300
G	EXAMINATION FEE					LARGE ENTITY FEE = \$720 SMALL ENTITY FEE = \$360		\$ 360
H	TOTAL BASIC, SEARCH & EXAMINATION FEES (ADD TOTALS FOR LINES D-G)							\$ 730
ITEM		TOTAL SHEETS Application and Drawings	Disc. for Filing Via EFS	TOTAL EXTRA SHEETS	NO. OF ADD'T'L 50 OR FRACTION THEREOF	LG/SM \$ ENTITY FEE		
I	APPLICATION SIZE	27	*.75	0	- 100 = 0 / 50 = 0	LG=\$400 SM=\$200	\$400	\$ 0
J	NON-ELECTRONIC FILING FEE (additional fee for applications filed in paper)					LG=\$400 SM=\$200	\$400	\$ 0
K	TOTAL FILING FEES (ADD TOTALS FOR LINES C, H, I AND J)							\$ 1,300

☒ The total amount of \$1,300 to cover the above fees is to be charged to Deposit Account No. 50-1068.

☒ Correspondence Address: Customer No. 22882
Martin & Ferraro, LLP
1557 Lake O'Pines Street, NE
Hartville, Ohio 44632
Telephone: (330) 877-0700
Facsimile: (330) 877-2030

☒ The Commissioner is hereby authorized to charge any deficiency for the following fees associated with this communication or credit any overpayment to Deposit Account No. 50-1068.

☒ Any additional filing fees required under 37 C.F.R. § 1.16

☒ Any patent application processing fees under 37 C.F.R. § 1.17

PETITION FOR EXTENSION. If any extension of time is necessary for the filing of this application, including any extension in the parent application, Serial No. 13/674,227, filed November 12, 2012, for the purpose of maintaining copendency between the parent application and this application, and such extension has not otherwise been requested, such an extension is hereby requested, and the Commissioner is authorized to charge necessary fees for such an extension to our Deposit Account No. 50-1068.

Respectfully submitted,

MARTIN & FERRARO, LLP

Dated: December 30, 2015

5151 Headquarters Drive, Suite 170
Plano, Texas 75024
Telephone: (972) 668-3050
Facsimile: (972) 668-3056

By: /Brent D. Martin/
Brent D. Martin
Registration No. 62,717

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	207.0002-05000
		Application Number	
Title of Invention	VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2:

☐	Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)
--------------------------	---

Inventor Information:

Inventor	1				Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Thomas		Dye		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Austin	State/Province	TX	Country of Residence	US

Mailing Address of Inventor:

Address 1	6621 Candle Ridge Cove				
Address 2					
City	Austin	State/Province	TX		
Postal Code	78731	Country	US		

Inventor	2				Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Thomas		Dundon		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	San Marcos	State/Province	TX	Country of Residence	US

Mailing Address of Inventor:

Address 1	2840 Paso Del Robies				
Address 2					
City	San Marcos	State/Province	TX		
Postal Code	78666	Country	US		

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button.

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Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

Zoho Corp. and Zoho Corp. Pvt., Ltd.

Exhibit 1005 – 096

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	207.0002-05000
		Application Number	
Title of Invention	VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS		

☐ An Address is being provided for the correspondence information of this application.

Customer Number	22882		
Email Address	USPTO-docketing@martinferraro.com	Add Email	Remove Email

Application Information:

Title of the Invention	VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS		
Attorney Docket Number	207.0002-05000	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	6	Suggested Figure for Publication (if any)	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	22882		

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	207.0002-05000
		Application Number	
Title of Invention	VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending				Remove
Application Number	Continuity Type		Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)	
	Continuation of		13674227	2012-11-12	
Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13674227	Continuation of	12646892	2009-12-23	8339997	2012-12-25
Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
12646892	Continuation of	10796560	2004-03-09	7664056	2010-02-16
Prior Application Status	Expired				Remove
Application Number	Continuity Type		Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)	
10796560	Claims benefit of provisional		60453307	2003-03-10	
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.					Add

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This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)ⁱ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

			Remove
Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ⁱ (if applicable)
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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	207.0002-05000
		Application Number	
Title of Invention	VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS		

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013. ☐ NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.	
--	--

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	207.0002-05000
		Application Number	
Title of Invention	VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS		

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	207.0002-05000
		Application Number	
Title of Invention	VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS		

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant	1	Remove
If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section. Clear		
☒ Assignee	Legal Representative under 35 U.S.C. 117	Joint Inventor
Person to whom the inventor is obligated to assign.		Person who shows sufficient proprietary interest
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:		
Name of the Deceased or Legally Incapacitated Inventor:		
If the Applicant is an Organization check here. ☒		
Organization Name	VPN MULTICAST TECHNOLOGIES LLC	
Mailing Address Information For Applicant:		
Address 1	101 E. PARK	
Address 2	6TH FLOOR, SUITE 33	
City	PLANO	State/Province TX
Country	US	Postal Code 75074
Phone Number		Fax Number
Email Address		
Additional Applicant Data may be generated within this form by selecting the Add button. Add		

Assignee Information including Non-Applicant Assignee Information:

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	207.0002-05000
		Application Number	
Title of Invention	VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS		

Assignee	1			
Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.				
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See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Brent D. Martin/		Date (YYYY-MM-DD)	2015-12-30
First Name	Brent D.	Last Name	Martin	Registration Number
				62,717
Additional Signature may be generated within this form by selecting the Add button.				Add

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	207.0002-05000
		Application Number	
Title of Invention	VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS		

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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.
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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

**Title of
Invention**

VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS

As the below named inventor, I hereby declare that:

This declaration
is directed to:

☐

The attached application, or

☒

United States application or PCT international application number 13/674,227

filed on November 12, 2012

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

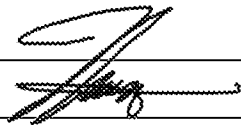
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LEGAL NAME OF INVENTOR

Inventor: Thomas Dye

Date (Optional) : 10/15/2015

Signature: _____



Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute 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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**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)****Title of
Invention**

VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS

As the below named inventor, I hereby declare that:

This declaration is directed to: ☐ The attached application, or☒ United States application or PCT international application number 13/674,227
filed on November 12, 2012.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTORInventor: Thomas Dundon Date (Optional) : _____Signature: /Thomas Dundon/

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute 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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VOICE CONFERENCE CALL USING PSTN AND INTERNET NETWORKS

CROSS REFERENCE TO RELATED APPLICATION

This application is a Continuation of U.S. Patent Application No. 13/674,227, filed November 12, 2012 (Publication No. 2013/0163480); which is a Continuation of U.S. Patent Application No. 12/646,892 (now U.S. Patent No. 8,339,997), filed December 23, 2009; which is a Continuation of U.S. Patent Application No. 10/796,560 (now U.S. Patent No. 7,664,056), filed March 9, 2004; which claims priority under 35 U.S.C. 119(e) to U.S. Provisional Patent Application No. 60/453,307, filed March 10, 2003, all of which are incorporated by reference herein in their entirety.

BACKGROUND OF THE INVENTION

Field of the invention

The present invention relates to computer system architecture and more particularly to audio and video telecommunications for collaboration over hybrid networks.

Description of the Related Art

Since their introduction in the early 1980's, audio/video conferencing systems ("video conferencing systems") have enabled users to communicate between remote sites using telephone lines based on dedicated or switched networks. Recently, technology and products to achieve the same over Internet Protocol have been attempted. Many such systems have emerged on the marketplace. Such systems produce low-frame-rate and low quality communications due to the unpredictable nature of the Internet. Such connections have been known to produce long latencies with limited bandwidth, resulting in jerky video, dropped audio and loss of lip sync.

Therefore, most video conferencing solutions have relied on dedicated switched networks such as T1/T3, ISDN or ATM. These systems have the disadvantage of higher cost and complexity and a lack of flexibility due largely to interoperability issues and higher cost client equipment. High costs are typically related to expensive conferencing hardware and dedicated pay-per-minute communications usage. Most often these dedicated communications circuits are switched circuits which use a fixed bandwidth allocation.

In most prior art systems the public switched telephone network (PSTN) is used to transfer audio during conferencing and collaboration with remote parties. It is known that quality of audio reception is poor over typical prior art Internet protocol (IP) systems. Prior art audio/video conferencing systems which use IP networks for audio and video transport lack the ability to terminate audio to client end systems through both PSTN and IP networks. Thus, it is desirable to achieve a hybrid mix of audio and video data over PSTN and IP-based audio/video conferencing to achieve full duplex real-time operation for all conference participants.

Modem voice over IP telephony systems have used the H.323 standard from the international telecommunications union (ITU). The H.323 standard focuses on the transmission of audio and video information through the Internet or switched private networks. Figure 1 illustrates a prior art H.323 system. The block diagram of Figure 1 includes a number of major components, including the general Internet 435, Internet

H.323 bridges or gateways 411, telecommunications PSTN 433 (Public Switched Telephone Network), wireless and land-line phone handsets 412/413, standard Internet router 453, an optional gatekeeper 205, a multipoint control unit 203, a standard local area network 457, a voice over IP server running the H.323 protocol 201, and multiple I/O and display terminals 455. Figure 1 is an example of the prior art conferencing system used between hybrid networks connecting the PSTN and Internet. Hybrid networks are used to communicate audio on internal LAN and WAN networks as well as transfer of audio to the existing telephone or PSTN network. While the H.323 recommendation allows for video conferencing, the prior art systems use private switched networks to establish transport that require expensive H.323 bridges between dedicated networks and the PSTN. Each of the components in Figure 1 serves this purpose to achieve audio telecommunications between multiple parties.

Referring again to Figure 1, the components of Figure 1 are interconnected as follows. Prior art technology uses PC or client terminals 455 connected through a local area network 457 to either a data server or a specialized audio/video server 201. The network server 201 contains the application necessary to generate the H.323 network protocol. The data server 201 may be connected to a local gatekeeper 205 that is responsible for management control functions. As known the gatekeeper 205 is responsible for various duties such as admission control, status determination, and bandwidth management. Data server 201 functions are specified and handled through the ITU-H.225.0RAS recommendations. In addition, management control unit (MCU) 203 is connected to the data server 201. The multipoint control unit of a 203 is required by the eight-step ITU- 5 H.323 recommendation for flexibility to negotiate end points and determine compatible setups for any conference media correspondents. The multipoint control unit 203 enables communication between three or more end points. Similar to a multipoint bridge, the gatekeeper 205 and the multipoint control unit 203 are optional components of the H.323 enabled network. Another useful job of the multipoint control unit 203 is to determine whether to unicast or multicast the audio or video streams. As known by one skilled in the art, these decisions are dependent on the capability of the underlying network and the topology of the multipoint conference. The multipoint control

unit 203 determines the capabilities of each client terminal 455 and status each of media stream.

Again referring to Figure 1, a standard network router 453 is connected between the local area network 457 and the Internet 435. At the outer edges of the Internet, "points of presence" are located at multiple end points or call termination sites. Gateways 411 are used to transcode the H.323 network information onto the PSTN 433. Standard telephone handsets 413 or wireless phones 412 are connected to the PSTN telephony system.

Figure 2 illustrates the embodiment of the H.323 protocol stack 200, its components and their interfaces to the local area network computers at the network interface 300. The input and control devices 455 along with a local area network 457 of Figure 1 are shown in Figure 2, consisting of the audio input output block 452, the video input and output block 451, the system control unit and data collaboration unit 459. These input devices are largely responsible for the delivery of media data to the H.323 protocol stack 200 shown in Figure 2.

Again referring to Figure 2, the sub blocks of functionality that make up the H.323 protocol stack 200 is described. The H.323 protocol stack consists of an audio codec 214, and a video CoDec 213 connected to the audio/video input and output blocks 452 and 451, respectively. The audio and video CoDecs are responsible for compression and decompression of the audio and video sources. The real-time network protocol component 215 is connected to the audio video CoDecs and is also responsible for preparation of the media data for transport according to the RTP (real-time protocol) recommendations.

Again referring to the prior art system of Figure 2, the H.323 protocol stack has a system control unit 459 which connects to multiple control blocks within the H.323 protocol stack 200. The system control unit connects to the RTC Protocol block 217 for real time transport of the control information used to set-up and tear down the conference. The system control unit 459 also connects to the call-signaling units 221 and 219 for call signaling protocols and media stream packetization application used for

packet-based multimedia communications. The system control unit 459 also connects to the control signaling block 223 used for control of protocols for multimedia communications. Lastly, the H.323 recommendation defines a data collaboration capability as known and outlined in the T.120 data collaboration unit 225.

All of the defined blocks make up the H.323 protocol network interface to the Transport protocol and network interface unit 300 for transport of data through the modem or router 453 to the Internet 435.

Summary of the Invention

A system and method for supporting a multi-participant voice conference call using PSTN and Internet networks is described. The method for supporting a multi-participant voice conference call includes receiving voice from a public switched telephone network (PSTN) client. The method also includes receiving voice data from a moderator and from at least one remote client connected to the Internet. The method then proceeds to mix the voice data from the PSTN client with the voice data from the moderator into a first mixed voice data that is transmitted to the remote client that is connected to the Internet. The method also mixes the voice data from the moderator with the voice data from the remote client connected to the Internet into a second mixed voice data that is transmitted to the PSTN client.

A system for supporting a multi-participant voice conference call is also described. The system includes an audio mixer, a first transport output, a VOIP mixer and a second transport output. The audio mixer mixes voice data from a Public Switched Telephone Network (PSTN) client with voice data from a moderator into a first mixed voice data. The first transport output transmits the first mixed voice data to at least one remote client. The VOIP mixer mixes voice data from the moderator with voice data from the remote client connected to the Internet into a second mixed voice data. The second transport output transmits the second mixed voice data to the PSTN client.

Another system for supporting a multi-participant voice conference call that includes a PSTN client, a first participant client, at least one remote client, a first audio

mixer and a second audio mixer is described. The PSTN client, the first participant, and each remote client device are each configured to receive audio. The first audio mixer mixes the audio from the PSTN client with the audio from the first participant into a first mixed audio. The first mixed audio is transmitted to each one remote client connected to the Internet. The second audio mixer mixes audio from the first participant with the audio from each remote client connected to the Internet into a second mixed audio. The second mixed audio is transmitted to the PSTN client.

Brief Description of the Drawings

A better understanding of the present invention can be obtained when the following detailed description of the preferred embodiment is considered in conjunction with the following drawings, in which:

Figure 1 illustrates a typical H.323 audio and video conferencing system implemented in accordance with prior art;

Figure 2 illustrates an H.323 protocol stack and its components implemented in accordance with prior art;

Figure 3 illustrates one embodiment of the present invention;

Figure 4 illustrates an embodiment using multicast Protocol;

Figure 5 illustrates the audio and video data flow over hybrid networks; and

Figure 6 illustrates the local client data mixing used in the preferred embodiment.

Detailed Description of the Preferred Embodiment

Incorporation by Reference

The following applications and references are hereby incorporated by reference as though fully and completely set forth herein.

U.S. Application Serial No. 10/446,407 titled "Transmission Of Independently Compressed Video Objects Over Internet Protocol", Dye et al. filed May 28,2003

U.S. Application Serial No. 10/620,684 titled "Assigning Prioritization During Encode Of Independently Compressed Objects, Dye, et al. filed on July 16, 2003.

International Telecommunications Union Recommendation H.323, Titled "Packet Based Multimedia Communication System." November, 2000

International Telecommunications Union Recommendation H.261, Titled "Video Coding for Audio Visual Services at Px64 kbps."

International Telecommunications Union Recommendation H.263, Titled "Video Coding for Low Bit-Rate Communications" February, 1998

One embodiment of the present invention uses a decentralized model for multipoint conferencing. The multipoint control unit insures communication capability once the media stream is transcoded to the H.323 standard as known. However, this embodiment mixes media streams at each terminal prior to multicast.

Figure 3 illustrates one embodiment of the invention. This embodiment allows audio video and data collaboration information to be securely transferred between a plurality of local and remote clients preferably within a virtual private network. This embodiment provides the ability for a moderator (single member of the conference) to dial out from a desktop computer or terminal (using a novel hybrid network structure) connecting an external telephone user's audio into the audio/video conference. The embodiment integrates full duplex audio, video, and data connections between clients conferencing on the Internet and clients conferencing on standard telephone systems. The Internet/PSTN hybrid network is the medium used for transport. Figure 3 depicts the necessary equipment and protocols to complete the dial out to PSTN network method and process.

Now referring to Figure 3, the voice over IP moderator 401 (call initiator or caller) typically has a number of peripherals used for real input output devices at the desktop. These include a client computing devices such as a PC or other computer 459, a client terminal 455 including a keyboard and mouse for input output control, a standard

desktop telephone 457, a video input device or camera 451 and the audio input device, microphone 452. In one embodiment each conference call connected to the Internet will have similar peripheral hardware devices. Figure 3 illustrates a multi-party virtual conference connected over the Internet. Internet clients include audio video client 415, audio video client 418, and audio video client number and 417. In addition, Figure 3 shows two possible telephony clients using standard wired 413 or wireless telephone 412 systems. PSTN client #1 412 is connected to a wireless cell phone that in turn is connected to the global dial network 450, as specified by the PSTN 433. Remote telephony user client #2 413 is connected to a standard telephone handset 413 which is connected to the global dial network 450 based on the PSTN 433.

Again referring to Figure 3 the Internet-based clients 401, 415, 418, and 417 are connected through routers or modems 453 preferably in a virtual private network configuration 461. A virtual private network bridge 461 is used to connect local and remote clients together within a secure private network. A local connection from the VPN bridge 407 to the voice over IP server 409 is used to transfer conference audio from any participant on the IP network to any participant in the PSTN. Thus, the voice over IP server 409 is responsible for transcoding audio information from the virtual private network 461 to and from the PSTN gateway 411, thus bridging the PSTN and VPN together.

Figure 4 illustrates one embodiment of the present invention. The system of Figure 4 performs audio transport between multiple client groups who all share the same multicast group address such that audio/video and data may be shared interactively without the need of central servers. Multicast protocol and encapsulated media packets are implemented so that media data may be routed through public or private IP networks without the need for special hardware and software during the majority of the network transport. Figure 4 shows a system of virtual networks that interconnect as a virtual private network 423. Each VPN tunnel can be connected in a series or star topology between one or more multicasting appliances 447-457. One or more central servers or VPN bridge(s) 407 are at the center of the network topology. Multicasting enabled appliances 447, 449, 451, 453, 455, and 457 are used at the

origination or termination points for audio, video, or data (media data) to and from the backbone of the transport path. PSTN gateways are used to provide "points of presence" throughout and are responsible for origination or termination of audio data on and off of the PSTN from the IP network topology. Multicast enabled routing allows remote clients to be PC's or PSTN gateways which become "Listeners" of media data. Thus, media data is presented or broadcast onto a network with one or more group addresses. This method uses less bandwidth and reduces latency during transport.

Again referring to Figure 4, PSTN group #1 412 has three analog telephones which are switched into a PSTN gateway and VoIP server 471 which is networked over public or private network connection to a multicast enabled VPN appliance 447. Appliance 447 is connected to a VPN bridge server 407 also by means of a virtual private network. The VPN Bridge 407 is used to authenticate clients, assign multicast IP group addresses to various PC clients and VoIP gateway servers. In addition the VPN Bridge Server 407 may have additional meeting room or conferencing features necessary to carry out a multi-party conference. Connected to the VPN Bridge 407 are various virtual private networks which form network tunnels to one or more other multicasting appliances 449, 451, 453, 455, 457 which connect to one or more PSTN gateways typically located in geographically dispersed areas.

For the purpose of the illustration of Figure 4, PSTN group #1 412 is audio conferencing with PSTN client #3 414 and PSTN client #5 416, each of which are audio conferencing with Audio/Video client group #4 415. In the illustration of Figure 4, each member of audio/video client group #4 share audio with all the clients and video with each other. One example may be illustrated again referring to Figure 4. If telephone client #5 416 is talking, the analog audio is converted from switched network (PSTN) to IP in the VoIP/PSTN gateway 475. The digital IP is routed via Internet to an appliance 455 at the edge of the network typically co-located with the VoIP/PSTN gateway 475. The appliance has been configured to have a virtual private network creating a tunnel through Internet to appliance 453 which also has Internet-based virtual private tunnels to appliance 457 and appliance 447. Audio from PSTN client #5 416 is broadcast from appliance 457 whereby all the audio/video client PC's of group #4 are "listeners" and

receive the audio from PSTN client 416 at the same time. Additionally, PSTN client #5's 416 audio is routed over another virtual private network to one or more appliances in this case appliances 447 and 449. PSTN Client group #1 412 are also "listeners" of the multicast group as well as PSTN Client #3 414. Thus, audio is broadcast to multiple audio devices in both IP networks and the PSTN using a unique group address and a virtual private network structure. Interactivity is gained by using the same process no matter who in the group is the broadcaster of audio or video.

Figure 5 shows a more detailed block diagram of the embodiment of the present invention. The moderator client #1 401 initiates the call using the application code running on the voice over IP server 409. Call initiation and call transfer may be accomplished through a VPN tunnel 421 connected to the moderator client 401. Two connections to the Moderator client #1 401 through the VPN tunnel 421 are established. The first connection connects the VoIP conference data for call initiation, set-up and control 405. The second connection 403 through the VPN tunnel connects the conference audio and video 403 between the moderator client 401 and multiple remote clients 415, 417, 413 connected to the Internet. The VPN tunnel 421 is connected into the VPN bridge 407 which may be located within the Internet 435 at either local or remote sites. As indicated in Figure 5, the VPN bridge 407 is responsible for connecting and establishing the virtual private network used for secure conferencing. In the embodiment of the present invention the VPN bridge 407 bridges all the tunnels for data transfer. Thus, VPN tunnel 421, VPN tunnel 423 and VPN tunnel 425 are on the same virtual private network. Alternate embodiments may include a plethora of tunnels connected to through a single VPN bridge or multiple VPN bridges based on scalability of the system. An additional tunnel containing the conference voice over IP audio and call set-up data 405 is connected to a separate voice over IP server 409. The server 409 is responsible for transcoding the voice over IP audio and call set-up control 405 in preparation for data transfer across the H.323 network 437. The H.323 network 437 traverses across the Internet to one of many PSTN gateways 411. PSTN gateways 411 form the bridge between the Internet and the public switched telephone network 433. These VoIP gateways are typically located at the local exchange carrier (LEC) in a plethora of individual points of presence throughout the world. Audio telephony calls are

terminated at the voice over IP client 413. These termination points may be located throughout the world. Thus, the embodiment shown in Figure 5 allows for the dial-out to standard phones from a client terminal with audio and video capability over IP networks allowing conferencing between multiple remote sites including secure voice over IP audio components over the PSTN.

Figure 6 of the preferred embodiment shows the multiple network domains, the software applications and operating system boundaries and the operations necessary for audio manipulation and transport. It is noted that video accompanies the audio to all conference participants with the exception of the PSTN client 412. For simplicity of illustration, Figure 6 does not show the video conferencing path. The embodiment of Figure 6 includes a local moderator client 401 who is responsible for initiating a dial out for audio conferencing to the PSTN client 412. The local moderator client 401 may also be the initiator of the meeting. In this exemplary embodiment, it may be assumed that the local moderator client 401 has set up the audio video conference with remote audio video clients 418 previous to the dial out for audio conferencing to the PSTN client 412. The local moderator 401 and the remote audio video clients 418 may share audio and video data in a full duplex mode among to all participants with the exception of the PSTN client 412. The PSTN client 412 may share audio from a standard telephone or wireless telephone with all participants in the conference including the local client 401 and remote audio video clients 418. Likewise, the remote audio video clients 418 and the local moderator client 401 may share audio with the remote PSTN client 412. Thus, as indicated in Figure 6, a voice over IP call placed the standard telephone system may bring a remote telephone user into an audio/video conference with multiple remote participants.

A detailed description of Figure 6 follows. It may be assumed in this embodiment that the functions and features of Figure 6 are running on general-purpose hardware using various software to accomplish the tasks at hand. In alternate embodiments various pieces of Figure 6 may be encompassed in specialized hardware for improved speed performance. Again referring to Figure 6 and starting with the local moderator client 401, the process of call set-up is first performed. The local moderator client 401

uses a computer terminal connected to a local area network that in turn is connected to a wide area network and preferably then connected to a virtual private network 461. The local moderator client 401 is equipped with proprietary software, as depicted in Figure 6, to operate as a dial-out to PSTN application. The application interface allows a point-and-click interface establishing the dial out phone numbers to various possible clients on the PSTN 433. In alternate embodiments "Dial-In" may be used in addition using the same techniques outlined but in a reverse path scenario.

Once the local moderator client 401 has selected the remote PSTN client 412 phone number, a point and click on the name initiates the dial-out process where audio information is to be transport across hybrid networks. General tones, as known in the art according to the ITT standard, are sent from the local moderators computer or terminal to the voice over IP server 409 located somewhere within a global Internet system 435. The voice over IP server 409 may be connected to a virtual private network 461. The voice over IP server 409 may use standard H.323 or SIP network protocol to establish communications as known directly to the PSTN gateway 433. Once the call set-up is complete both the PSTN client 412 and the local moderator client 401 have established a connection. In one embodiment the connection is not established for all the audio participants within the conference at this time. In the embodiment of Figure 6 it is assumed that all the remote audio video clients 418 had previously been in a conference with the local moderator client 401. In alternate embodiments the order at which callers are established may be different. With the foregoing assumption of a conference being established prior to the call-out to PSTN, further definition of the VoIP audio path is specified. The following discloses and further defines the audio paths through three layers of application software 562, 564, 566, including the audio paths through four hybrid network boundaries 510, 520, 435, and 515.

Starting with the remote client/moderator boundary 510 preceding to the local client voice over IP boundary 520, the Internet interface boundaries 435 and the PSTN telephone network boundary 515, each of these distinct boundaries makes up the method used to transport audio media in a hybrid mixed network system. Remote client/moderator boundary 510 may be established as a virtual private network for

transport of audio and video data between the local moderator client 401 and remote audio/video clients 418. In alternate embodiments the virtual private network may be replaced with either switched dedicated network or standard non-secure IP networks. The local clients VoIP boundary 520 may also be a virtual private network connecting audio from the local moderator client 401 to a local or remote voice over IP server 409. In alternate embodiments the local client voice over IP boundary may be established through switched networks or the open Internet. For security purposes all connections that traverse across the open Internet 435 are preferably secured by the use of encryption running within a virtual private network. Alternate embodiments may exclude encryption and virtual private networks including public non-encrypted information, public Internet interfaces or over private switched networks. Continuing with the description of the Internet interface 435, it is assumed all the information above the PSTN boundary 515 (as indicated in Figure 6) is information which travels within local client local area networks, remote client local area networks, or on wide area networks through the Internet. The final boundary for network transport is the PSTN boundary 515. This is the transport interface between the wide area network (Internet) and gateways that transmit data to and from the PSTN system 433.

Again referring to Figure 6 and assuming the PSTN dial out call has been established as known in the art, (preferred to ITD H.323) the following detailed information regarding the audio processing follows. In one embodiment the interface between the conference application boundary 562 and the operating system interface boundary 564 and the voice over to IP application boundary 566 is taken under consideration. Preferably, the operations performed on the audio occur in real time to achieve full duplex operation. In alternate embodiments a plethora of alternative methods, operating systems application software, and input and output devices may be used to achieve the same goal as described previously. In one embodiment the operating system sound interface and API boundaries 564 are used for standard audio mixing. The audio from the local moderator client 401 is preferably mixed to be transported both to the PSTN client 412 and remote audio video clients 418. The conference application boundary 562 is responsible for the application which controls mixing of audio to the operating system sound interface 564. In one embodiment, the

operating system sound interface also performs the interface and mixing for the voice over IP application boundary 566. These layers make up the application interface for achieving the operation as described herein. Input from the local moderator client 401 is input to two mixers. First, the moderator audio input 550 is connected to the voice over IP record mixer 568. Secondly, the microphone from the moderator client 401 is also connected to another standard mixture 534. The voice over IP record mixer 568 mixes the audio from the audio decompressors 525 and the local moderator audio 401 in preparation for transport to the voice over IP encoder 522. In addition, the local moderator client 401 sends audio to the audio mixer 534 which mixes the audio from the voice over IP decoder 524 for output to the conference applications 562 local audio encoder 520a. The audio encoder 520a combines the PSTN client 412 audio with the local moderator clients 401 audio then encodes the result for compression of the data in preparation for transport across the VPN network 461. The application software audio encoder 520a delivers both the PSTN client's audio and the local moderator client's audio to remote audio video clients 418.

The local moderator client 401 receives audio from the PSTN client 412, and thus the voice over IP player mixer 569 mixes audio previously decoded by the voice over IP decoder 524 with the audio from the remote client's 418 for presentation to the local speaker 454. All the remote audio video clients 418 hear the audio from the PSTN client 412. The PSTN client 412 transports audio through the PSTN 433 to Internet-based voice over IP server 409. The voice over IP server transcodes the audio data into a format suitable for transport onto the VoIP application boundary 566. Figure 6 also depicts how audio data from the remote audio video clients 418 is prepared for transport across a VPN network 461. This audio data is input to the application's local decoders for audio decompression 525 prior to the mixing process. The remote audio video clients 418 audio is mixed with the local moderator client audio 401 in preparation for compression by the VoIP encoder 522. This audio data is then placed in the virtual private network tunnel for transport to the voice over IP server 409 and onto the gateway for audio presentation to the PSTN, terminating at the PSTN client 412.

Figure 6 outlines multiple application software boundaries used to mix audio between local and remote clients in hybrid data networks as indicated by the multiple protocol boundaries 562, 564, 566. Thus, the embodiment allows enhancements to the ability for audio video conferencing with multiple clients and the added value of dialing out to a remote telephone user located somewhere within the global dial-up network 450 (shown in Figure 3). Prior art techniques, such as that known in the ITU H.323 recommendations, have the compressor 522 and decompressors 524 located within the VoIP server running the H.323 network system as indicated in Figure 2 (audio codec 211). This poses a problem for low bit-rate networks especially when video and audio are already part of the transport data. The present embodiment uses highly compressed audio that is compressed and decompressed at the client computer. Thus, the voice over IP server can be located anywhere within the Internet 435 without concern about the limited bandwidth of the first and last mile. In addition, only a single server is required for multiple conferences. The prior art systems, as shown in Figure 1, place at least one or more voice over IP server behind the firewall and corporate router for transcoding information to the H.323 network. This requires additional cost when a separate server is needed in each location to run the H.323 standard. The present embodiment does not require a separate server at each site, but instead requires that the desktop computer or terminal compress the data prior to transport.

CLAIMS:

We claim:

1. A method for establishing a secure multi-participant conference call including full duplex audio, the method comprising:
 - initiating a dial-out process to establish a connection with a Public Switched Telephone Network (PSTN) client in response to a local moderator client selecting the PSTN client;
 - receiving first audio data at the local moderator client from the PSTN client through a PSTN gateway;
 - receiving second audio data at the local moderator client from a remote client through a Virtual Private Network (VPN) tunnel;
 - transmitting third audio data, first video data, and first collaboration data from the local moderator client to the remote client through the first VPN tunnel; and
 - transmitting fourth audio data from the local moderator client to the PSTN client through the PSTN gateway.
2. The method of claim 1, further comprising:
 - receiving second video data at the local moderator client from the remote client.
3. The method of claim 1, further comprising:
 - receiving second collaboration data at the local moderator client from the remote client.
4. The method of claim 1, wherein the PSTN client is a cellular telephone.
5. The method of claim 1, further comprising:
 - compressing the third audio data prior to the transmitting the third audio data.
6. The method of claim 1, wherein the second audio data received from the remote client is compressed digital audio data.
7. The method of claim 6, further comprising:
 - decompressing the second audio data received from the remote client.

8. The method of claim 7, further comprising:
 - mixing the second audio data received from the remote client with the first audio data received from the PSTN client.
9. The method of claim 8, further comprising:
 - playing the mixed audio data from speakers connected to the local moderator client.
10. A method for establishing a secure multi-participant conference call including full duplex audio, the method comprising:
 - initiating a dial-in process to establish a connection with a local moderator client in response to an input from a Public Switched Telephone Network (PSTN) client;
 - receiving first audio data at the local moderator client from the PSTN client through a PSTN gateway;
 - receiving second audio data at the local moderator client from a remote client through a Virtual Private Network (VPN) tunnel;
 - transmitting third audio data, first video data, and first collaboration data from the local moderator client to the remote client through the first VPN tunnel;
 - and
 - transmitting fourth audio data from the local moderator client to the PSTN client through the PSTN gateway.
11. The method of claim 10, further comprising:
 - receiving second video data at the local moderator client from the remote client.
12. The method of claim 10, further comprising:
 - receiving second collaboration data at the local moderator client from the remote client.
13. The method of claim 10, wherein the PSTN client is a cellular telephone.
14. The method of claim 10, further comprising:
 - compressing the third audio data prior to the transmitting the third audio data.

15. The method of claim 10, wherein the second audio data received from the remote client is compressed digital audio data.
16. The method of claim 15, further comprising:
 - decompressing the second audio data received from the remote client.
17. The method of claim 16, further comprising:
 - mixing the second audio data received from the remote client with the first audio data received from the PSTN client.
18. The method of claim 17, further comprising:
 - playing the mixed audio data from speakers connected to the local moderator client.
19. A method for conducting a secure multi-participant conference call including full duplex audio, the method comprising:
 - receiving first audio data, first video data, and first collaboration data at a server from a first remote client through a first Virtual Private Network (VPN) tunnel;
 - receiving second audio data at the server from a second remote client through a second VPN tunnel;
 - receiving third audio data at the server from a Public Switched Telephone Network (PSTN) client through a PSTN gateway;
 - mixing the first audio data with the second audio data into a first mixed audio data;
 - mixing the second audio data with the third audio data into a second mixed audio data;
 - mixing the first audio data with the third audio data into a third mixed audio data;
 - transmitting the first mixed audio data from the server to the PSTN client through the PSTN gateway;
 - transmitting the second mixed audio data from the server to the first remote client through the first VPN tunnel;
 - transmitting the third mixed audio data from the server to the second remote client through the second VPN tunnel; and

- transmitting the first video data and the first collaboration data from the sever to the second remote client.
20. The method of claim 19, further comprising:
 - receiving second video data at the server from the second remote client.
 21. The method of claim 19, wherein the PSTN client is a cellular phone.
 22. The method of claim 19, further comprising:
 - compressing the second mixed audio data before the transmitting to the first remote client.
 23. The method of claim 22, further comprising:
 - decompressing the compressed digital audio data at the first remote client.
 24. The method of claim 22, wherein the compressing the second mixed digital audio data is compressed using a standard audio codec.
 25. An apparatus for conducting a secure multi-participant conference call including full duplex audio, the apparatus comprising:
 - a server being configured to receive:
 - first audio data, first video data, and first collaboration data from a first remote client through a first Virtual Private Network (VPN) tunnel;
 - second audio data from a second remote client through a second VPN tunnel; and
 - third audio data from a Public Switched Telephone Network (PSTN) client through a PSTN gateway;
 - the server being configured to mix:
 - the first audio data with the second audio data into a first mixed audio data;
 - second audio data with the third audio data into a second mixed audio data; and
 - the first audio data with the third audio data into a third mixed audio data;
 - the server being configured to transmit:
 - the first mixed audio data to the PSTN client through the PSTN gateway;

the second mixed audio data to the first remote client through the first VPN tunnel;

the third mixed audio data to the second remote client through the second VPN tunnel; and

the first video data and the first collaboration data to the second remote client.

26. The apparatus of claim 25, wherein the server is configured to receive second video data from the second remote client.
27. The apparatus of claim 25, wherein the PSTN client is a cellular phone.
28. The apparatus of claim 25, wherein the second mixed audio data is compressed digital audio data.
29. The apparatus of claim 28, wherein the compressed digital audio data is compressed using a standard audio codec.

Abstract of the Disclosure

A system and method for supporting a multi-participant voice conference call using PSTN and Internet networks is described. The method for supporting a multi-participant voice conference call includes receiving voice from a PSTN client. The method also includes receiving voice data from a moderator and from at least one remote client connected to the Internet. The method then proceeds to mix the voice data from the PSTN client with the voice data from the moderator into a first mixed voice data that is transmitted to the remote client that is connected to the Internet. The method also mixes the voice data from the moderator with the voice data from the remote client connected to the Internet into a second mixed voice data that is transmitted to the PSTN client.

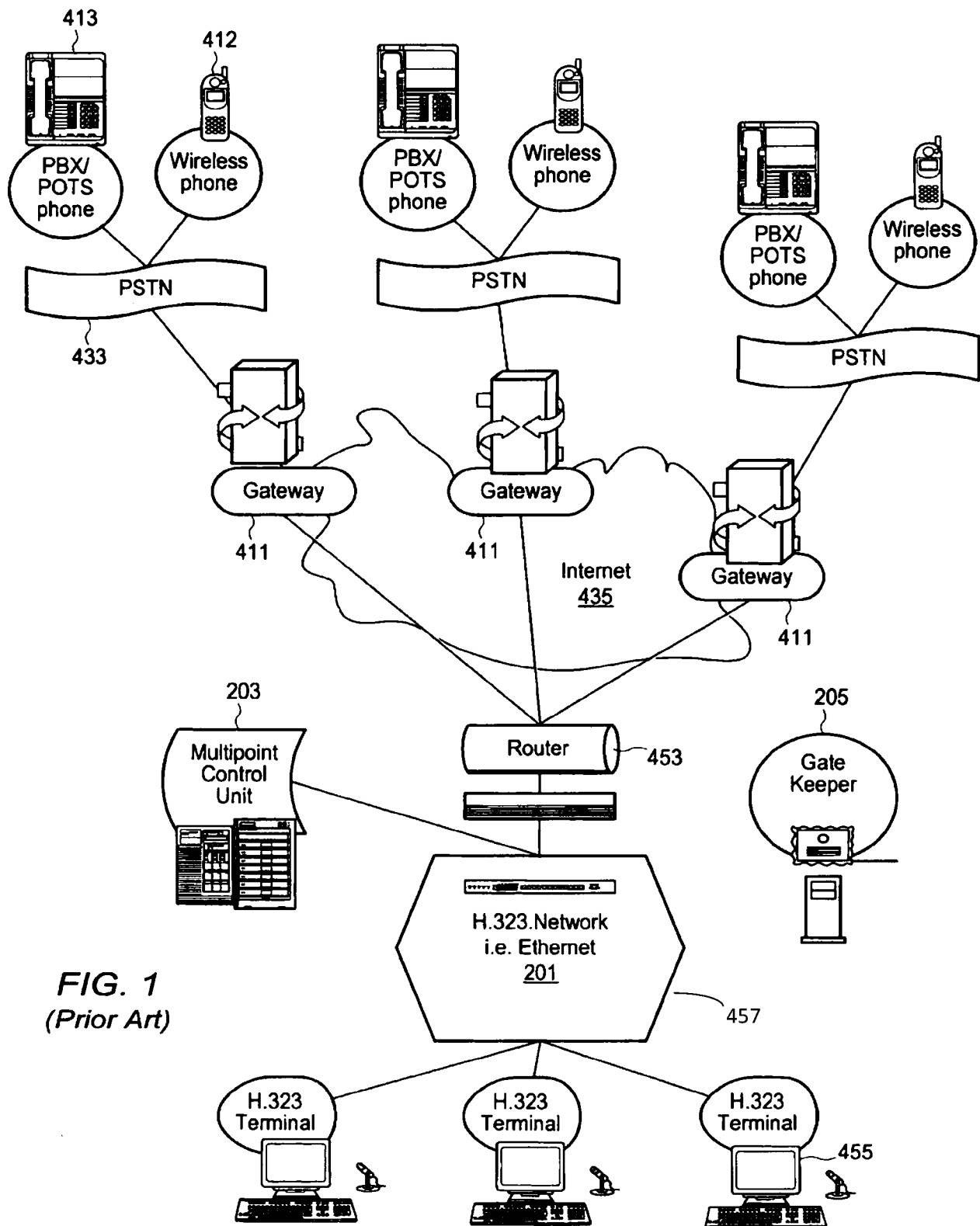


FIG. 1
(Prior Art)

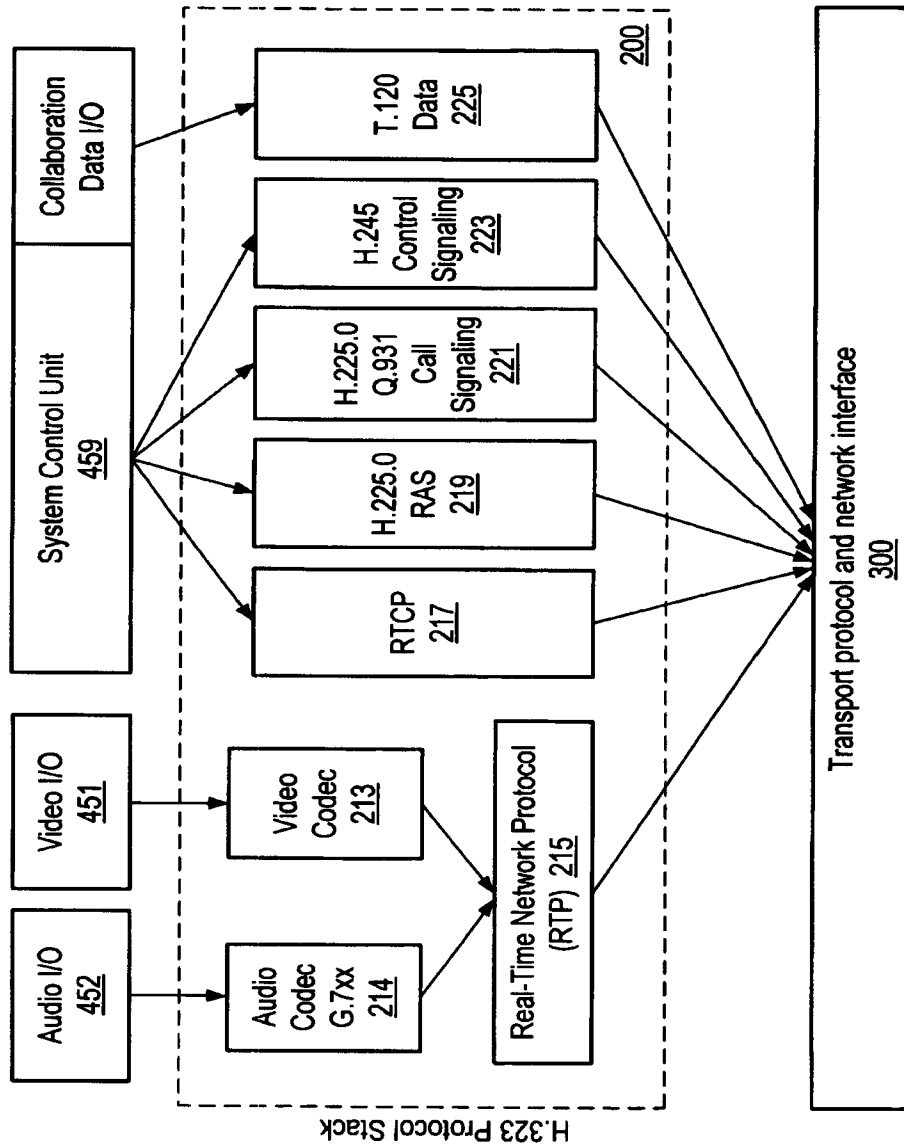


FIG. 2
(Prior Art)

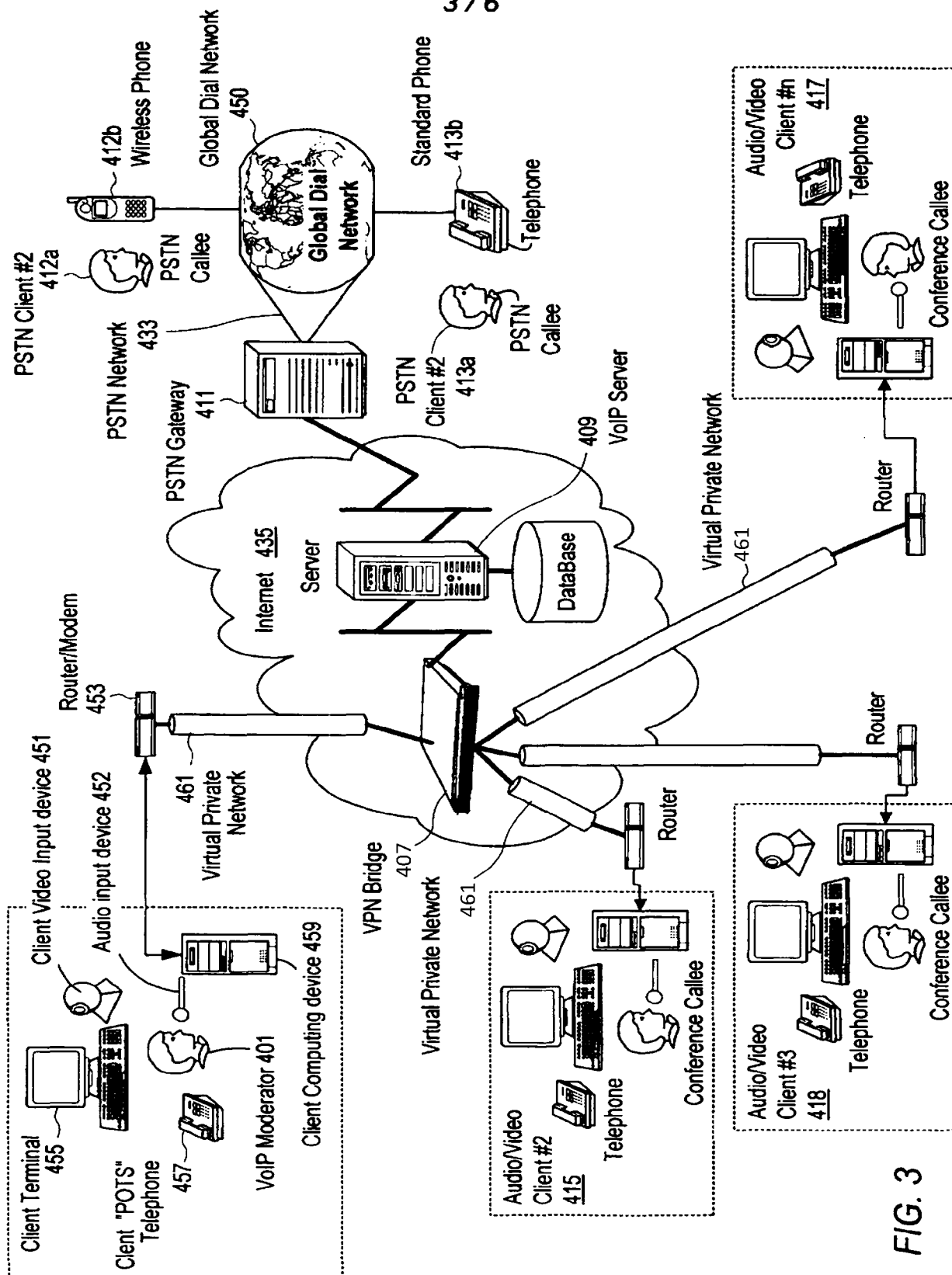


FIG. 3

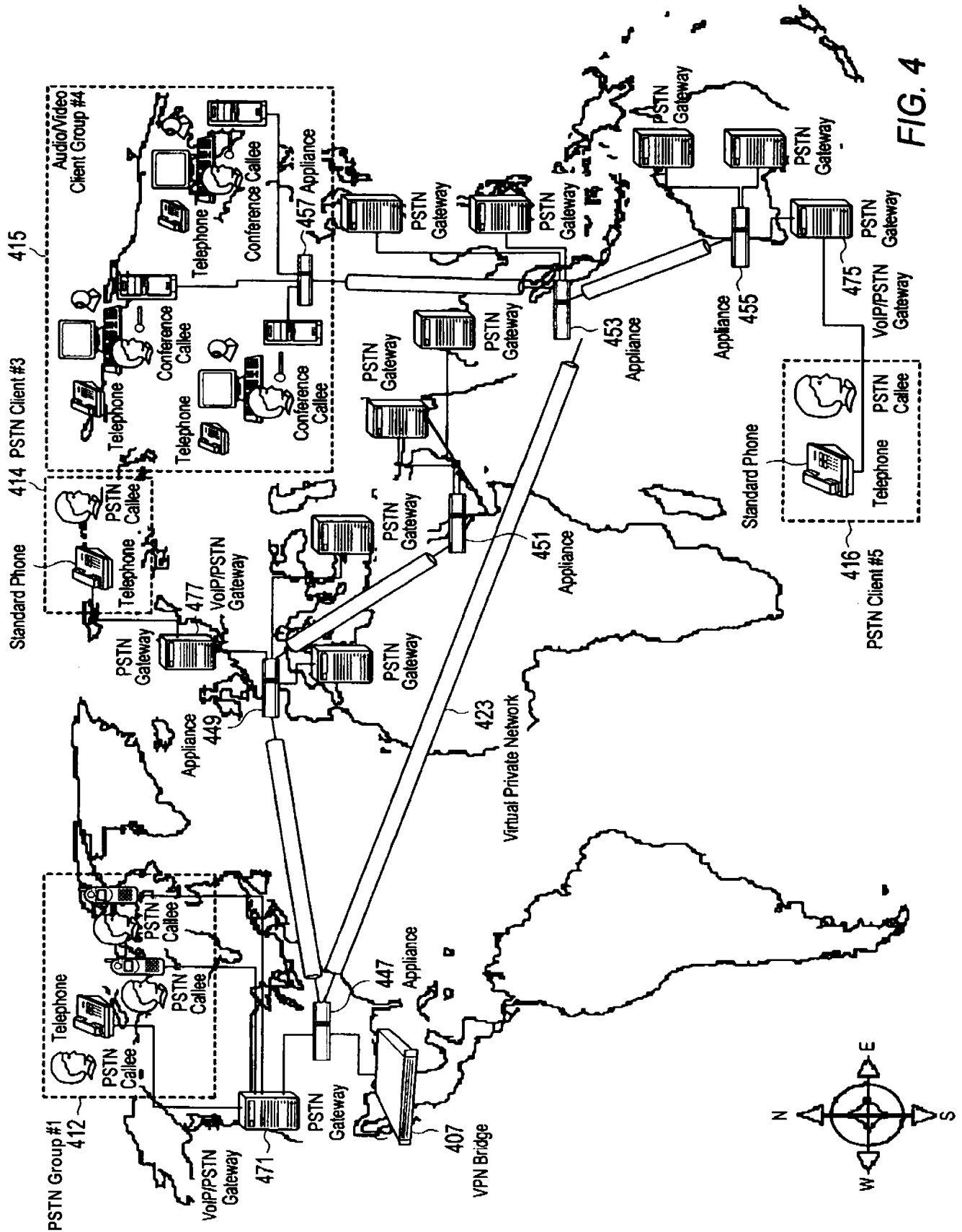


FIG. 4

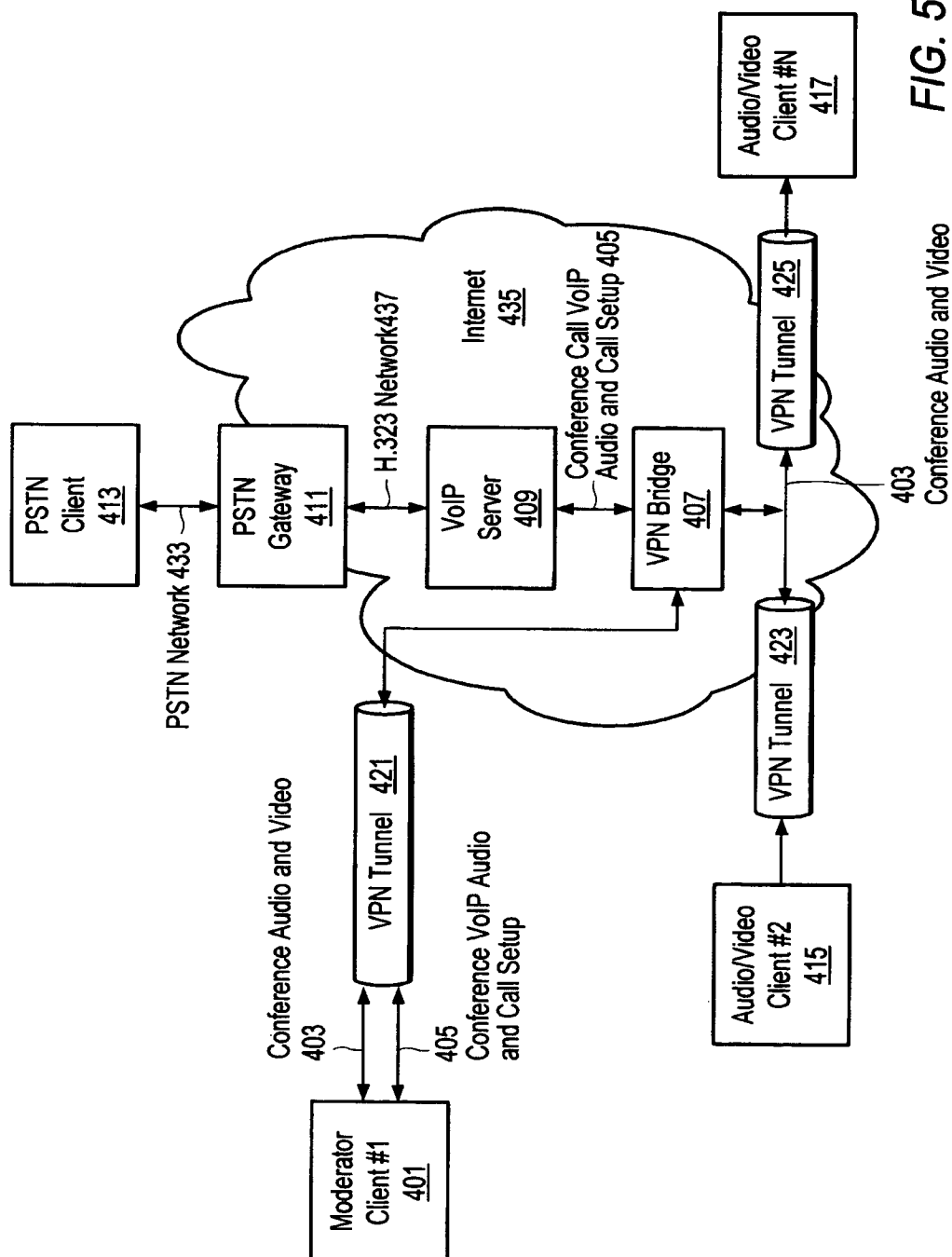


FIG. 5

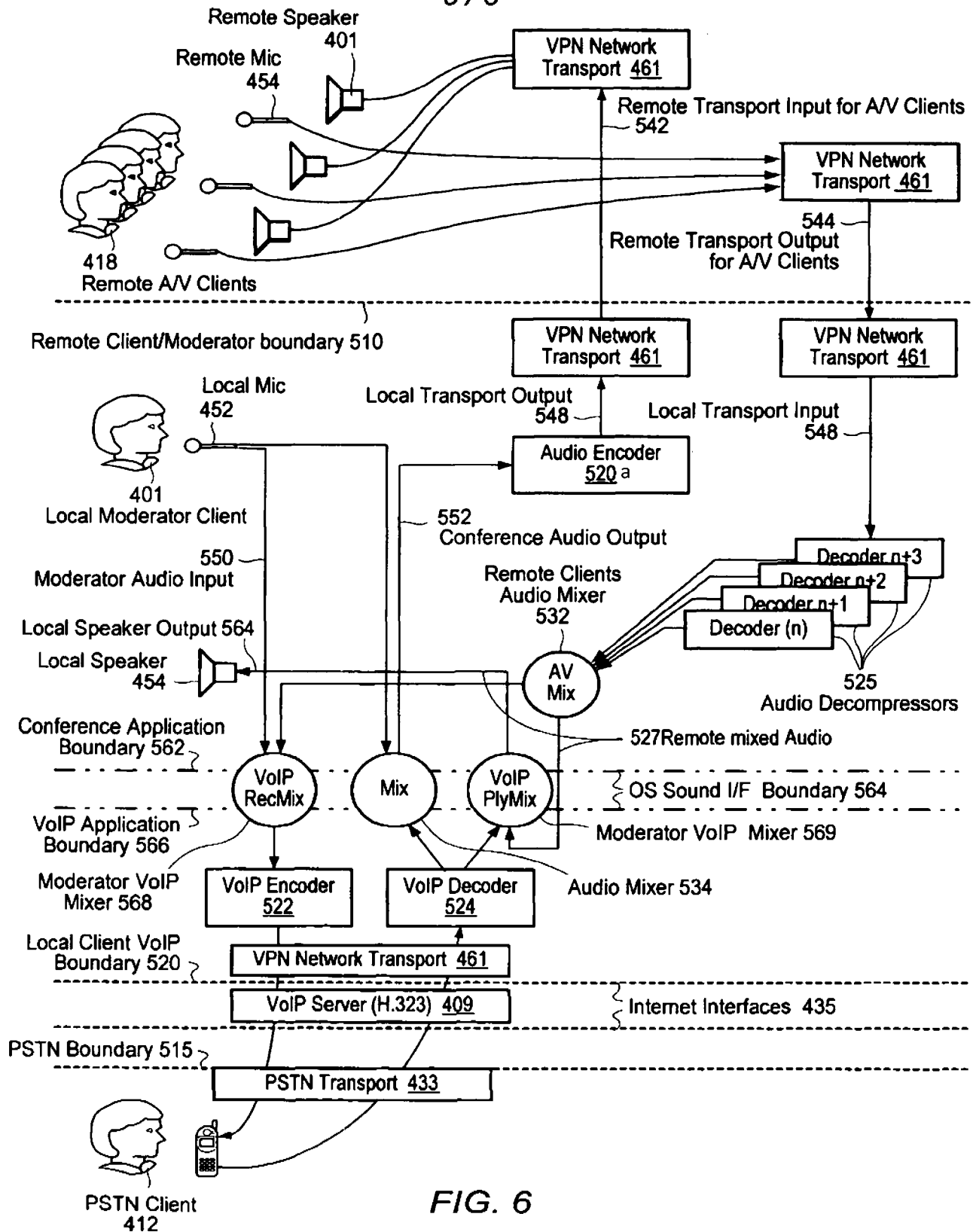


FIG. 6

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	Prior Application Information:
Thomas Dye et al.	)	
Serial No.: (Cont. of 13/674,227)	)	Group Art Unit: 2656
Filed: December 30, 2015	)	Examiner: Suhan Ni
For: VOICE CONFERENCE CALL	)	
USING PSTN AND INTERNET	)	
NETWORKS	)	

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

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicant brings to the attention of the Examiner the documents listed on the attached Form PTO/SB/08. This Information Disclosure Statement is being filed concurrently with the above-referenced application.

The present Application is a continuation of Application No. 13/674,227, filed November 12, 2012, which is a continuation of Application No. 12/646,892, filed December 23, 2009, now U.S. Patent No. 8,339,997; which is a continuation of Application No. 10/796,560, filed March 9, 2004, now U.S. Patent No. 7,664,056.

Applicant brings to the Examiner's attention Application Nos. 13/674,233, filed November 12, 2012, now U.S. Patent No. 9,094,525; 10/772,012, filed February 4, 2004, now U.S. Patent No. 7,444,425; 12/237,286, filed September 24, 2008, now U.S. Patent No. 8,477,778 ("778 patent"); and 14/590,791, filed January 6, 2015, which is pending.

Applicant also brings to the attention of the Examiner the file history (the Office Actions and responses) of each of the above-referenced patents and applications. While the individual Office Actions and responses are not attached hereto, they are

available in each of the file wrappers in the Patent Office, through PAIR, or will be provided by the Applicant at the Examiner's request.

Copies of the listed non-U.S. patent documents were previously submitted in a prior application, Serial No. 13/674,227, filed November 12, 2012; Serial No. 12/646,892, filed December 23, 2009; or Serial No. 10/796,560, filed March 9, 2004; upon which Applicant relies for the benefits provided in 35 U.S.C. § 120..

Applicant brings to the Examiner's attention that the '778 patent is the subject of litigation in the United States District Court for the Eastern District of Texas, Marshall Division, Civil Action No. 2:14-cv-1013 hereinafter referred to as Litigation 1. The documents associated with Litigation 1 are identified by the designation "Lit. 1" in the Examiner Initial column of the attached Form PTO/SB/08.

The '778 patent is also the subject of litigation in the United States District Court for the Eastern District of Texas, Marshall Division, Civil Action No. 2:14-cv-1014 hereinafter referred to as Litigation 2. The documents associated with Litigation 2 are identified by the designation "Lit. 2" in the Examiner Initial column of the attached Form PTO/SB/08.

Applicant respectfully requests that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claims in the application and Applicant determines that the cited documents do not constitute "prior art" under United States law, Applicant reserves the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 50-1068.

Respectfully submitted,

MARTIN & FERRARO, LLP

Dated: December 30, 2015

By: /Brent D. Martin/
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