

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
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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
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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. §

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

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

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.):

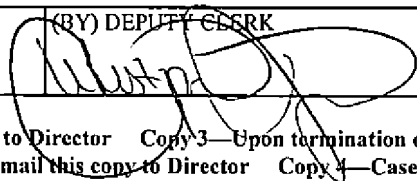
DOCKET NO. 1:18-CV-309-RP	DATE FILED 4/13/2018	U.S. DISTRICT COURT Western District of Texas, Austin Division
PLAINTIFF Meetrix IP, LLC		DEFENDANT Cisco Systems, Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 See Attached		
2 9253332		
3 9094525		
4 8339997	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

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. 1:16-CV-1034-RP	DATE FILED 9/2/2016	U.S. DISTRICT COURT Western District of Texas, Austin Division
PLAINTIFF Meetrix IP, LLC		DEFENDANT LogMeln, Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 9253332		
2 9094525		
3 8339997		
4		
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
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK Jeannette J. Clack	(BY) DEPUTY CLERK	DATE
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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

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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
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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. 1:16-CV-1033-RP	DATE FILED 9/2/2016	U.S. DISTRICT COURT Western District of Texas, Austin Division
PLAINTIFF Meetrix IP, LLC		DEFENDANT Citrix Systems, Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 SEE ATTACHED		
2 9,253,332	Format m/d/yyyy	
3 9,094,525		
4 8,339,997		
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			
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK Jeannette J. Clack	(BY) DEPUTY CLERK 	DATE 9/6/2016
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Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

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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.
12/646,892	12/25/2012	8339997	MEET 09.001	1932

48008 7590 12/05/2012
KERR IP GROUP, LLC
MICHAEL A. KERR
P.O. Box 18600
RENO, NV 89511

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 40 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 A. Dye, Austin, TX;
Thomas A. Dundon, Austin, 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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12646892
	Filing Date		2009-12-23
	First Named Inventor	Thomas A. Dye et al.	
	Art Unit	1932	
	Examiner Name		
	Attorney Docket Number	MEETRIX 09.001	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/SN/	1	6751477	B1	2004-06-15	Alperovich et al.	

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
Change(S) applied to document, /N.W.S/	1	20030137976	A1	2003-06-24 ⁰⁷	Zhu et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1							☐

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵

Application Number 	Application/Control No. 12/646,892	Applicant(s)/Patent under Reexamination DYE ET AL.	
Document Code - DISQ		Internal Document – DO NOT MAIL	

TERMINAL DISCLAIMER	☒ APPROVED	☐ DISAPPROVED
Date Filed : 11/14/12	This patent is subject to a Terminal Disclaimer	

Approved/Disapproved by:

Angie Walker

U.S. Patent and Trademark Office

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Thomas A. Dye et al.	Group Art Unit: 2447
Application Serial No.: 12/646,892	Examiner name: NI, Suhan
Filed: December 23, 2009	Confirmation No: 1932
Title: MEDIA BASED COLLABORATION USING MIXED-MODE PSTN AND INTERNET NETWORKS	

RESPONSE TO DISSAPPROVAL OF TERMINAL DISCLAIMER

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

Dear Sir/Madam:

Applicant hereby files this Response to the Disapproval of Terminal Disclaimer by the United States Patent and Trademark Office ("USPTO") on July 5, 2012. In its disapproval, the Office stated no Power of Attorney or Statement Under 37 CFR 3.73(b) was on record, therefore the signor of the Terminal Disclaimer was not the attorney of record. In response, Applicant resubmits the Terminal Disclaimer, along with the Power of Attorney and Statement Under 37 CFR 3.73(b) of non-provisional application 10/796,560 filed on March 9, 2004, now U.S. Patent 7,664,056, of which the instant application is a continuation. Per the Office's instructions, no new fee is submitted.

Respectfully Submitted;

Dated: August 20, 2012

/Michael A. Kerr/
Michael A. Kerr
Reg. No. 42,722

Michael A. Kerr
KERR IP GROUP, LLC
P.O. Box 18600
Reno, NV 89511
Tel: (775) 624-8700
Fax: (775) 622-0686

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

**TERMINAL DISCLAIMER TO OBIATE A DOUBLE PATENTING
REJECTION OVER A "PRIOR" PATENT**Docket Number (Optional)
MEET 09.001

In re Application of:

Application No.: 12/646,892

Filed: December 23, 2009

For: MEDIA BASED COLLABORATION USING MIXED-MODE PSTN AND INTERNET NETWORKS

The owner*, MEETRIX, Inc., of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of **prior patent** No. 7,664,056 as the term of said **prior patent** is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the **prior patent** are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

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

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

Check either box 1 or 2 below, if appropriate.

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

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

2. ☒ The undersigned is an attorney or agent of record. Reg. No. 42722

/Michael A. Kerr/

Signature

07/02/12

Date

Michael A. Kerr

Typed or printed name

775-624-8700

Telephone Number

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

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

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

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

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

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:	14231741
Application Number:	12646892
International Application Number:	
Confirmation Number:	1932
Title of Invention:	MEDIA BASED COLLABORATION USING MIXED-MODE PSTN AND INTERNET NETWORKS
First Named Inventor/Applicant Name:	Thomas A. Dye
Customer Number:	48008
Filer:	Michael A. Kerr/Julie Dawes
Filer Authorized By:	Michael A. Kerr
Attorney Docket Number:	MEET 09.001
Receipt Date:	14-NOV-2012
Filing Date:	23-DEC-2009
Time Stamp:	19:32:47
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	Terminal Disclaimer Filed	terminal_disclaimer_response.pdf	15839 823e94543b3dc24920a70046fc034ae99f3664c4	no	2

Warnings:

Information:

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

Exhibit 1005 – 018

2	Terminal Disclaimer Filed	termial_disclaimer.pdf	374607 03cde4af0cb6900d039267cf6203265dae52e0d8	no	2
Warnings:					
Information:					
Total Files Size (in bytes):				390446	
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.					

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.

48008 7590 08/16/2012
KERR IP GROUP, LLC
MICHAEL A. KERR
P.O. Box 18600
RENO, NV 89511

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.
12/646,892	12/23/2009	Thomas A. Dye	MEET 09.001	1932

TITLE OF INVENTION: MEDIA BASED COLLABORATION USING MIXED-MODE PSTN AND INTERNET NETWORKS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$870	\$300	\$0	\$1170	11/16/2012

EXAMINER	ART UNIT	CLASS-SUBCLASS
NI, SUHAN	2614	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 Kerr IP Group, LLC
 2 Michael A. Kerr
 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)

Meetrix Communications, Inc. Santa Monica, CA

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 credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

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

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature Michael A. Kerr

Typed or printed name Michael A. Kerr

Date 11/7/12

Registration No. 42,722

This collection of information 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.

Electronic Patent Application Fee Transmittal

Application Number:	12646892			
Filing Date:	23-Dec-2009			
Title of Invention:	MEDIA BASED COLLABORATION USING MIXED-MODE PSTN AND INTERNET NETWORKS			
First Named Inventor/Applicant Name:	Thomas A. Dye			
Filer:	Michael A. Kerr/Julie Dawes			
Attorney Docket Number:	MEET 09.001			
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Publ. Fee- early, voluntary, or normal	1504	1	300	300
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Utility Appl issue fee	2501	1	885	885

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

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1185

Electronic Acknowledgement Receipt

EFS ID:	14175408
Application Number:	12646892
International Application Number:	
Confirmation Number:	1932
Title of Invention:	MEDIA BASED COLLABORATION USING MIXED-MODE PSTN AND INTERNET NETWORKS
First Named Inventor/Applicant Name:	Thomas A. Dye
Customer Number:	48008
Filer:	Michael A. Kerr/Julie Dawes
Filer Authorized By:	Michael A. Kerr
Attorney Docket Number:	MEET 09.001
Receipt Date:	07-NOV-2012
Filing Date:	23-DEC-2009
Time Stamp:	18:29:20
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$1185
RAM confirmation Number	6436
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part App	Pages (If appld.)
			Zohar Corp and Zohar Corp		Part 1 of 10

1	Issue Fee Payment (PTO-85B)	issue_fees_form.pdf	224938 fe4ea65d2c29dc3b3045c9f4ad6cc18e20c afe4	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	32271 ab88c301ccfd516fed352f0e69250ec7484a 42fd	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			257209		
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
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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
12/646,892	12/23/2009	Thomas A. Dye	MEET 09.001

48008
KERR IP GROUP, LLC
MICHAEL A. KERR
P.O. Box 18600
RENO, NV 89511

CONFIRMATION NO. 1932
POWER OF ATTORNEY NOTICE



Date Mailed: 08/30/2012

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 08/21/2012.

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

/mnguyen/

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
12/646,892	12/23/2009	Thomas A. Dye	MEET 08.002

CONFIRMATION NO. 1932

POA ACCEPTANCE LETTER



48008
KERR IP GROUP, LLC
MICHAEL A. KERR
P.O. Box 18600
RENO, NV 89511

Date Mailed: 08/30/2012

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 08/21/2012.

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

/mnnguyen/

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

**REVOCATION OF POWER OF
ATTORNEY WITH
NEW POWER OF ATTORNEY
AND
CHANGE OF CORRESPONDENCE ADDRESS**

Application Number	10/798,560
Filing Date	March 9, 2004
First Named Inventor	Dye, Thomas A.
Art Unit	2614
Examiner Name	NI, Suhan
Attorney Docket Number	MEET 08.002

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

☐ A Power of Attorney is submitted herewith.

OR

☒ I hereby appoint the practitioners associated with the Customer Number: 48008

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

☒ The address associated with
Customer Number:

48008

OR

☒ Firm or Individual Name	Michael A. Kerr				
Address	Virtual Legal, LLC P.O. Box 22028				
City	Carson City	State	NV	Zip	89721
Country	USA				
Telephone	775-841-3388	Email	mick@invent.net		

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

SIGNATURE of Applicant or Assignee of Record

Signature			
Name	Jebb Dykstra, Managing Member		
Date	7/7/2008	Telephone	310-428-9218

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

☒ Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.38. 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 38 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.

STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: MEETRIX CORPORATIONApplication No./Patent No.: 10/796,560Filed/Issue Date: March 9, 2004

Entitled:

MEETRIX CORPORATIONa corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest
(The extent (by percentage) of its ownership interest is _____ %)

in the patent application/patent identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 015557, Frame 0845, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

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

☐ Additional documents in the chain of title are listed on a supplemental sheet.

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

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

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



Signature



Date

Jebb Dykstra

Printed or Typed Name

310-428-9218

Telephone Number

Managing Member

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is 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.

Electronic Acknowledgement Receipt

EFS ID:	13545122
Application Number:	12646892
International Application Number:	
Confirmation Number:	1932
Title of Invention:	MEDIA BASED COLLABORATION USING MIXED-MODE PSTN AND INTERNET NETWORKS
First Named Inventor/Applicant Name:	Thomas A. Dye
Customer Number:	48008
Filer:	Michael A. Kerr/Julie Dawes
Filer Authorized By:	Michael A. Kerr
Attorney Docket Number:	MEET 09.001
Receipt Date:	21-AUG-2012
Filing Date:	23-DEC-2009
Time Stamp:	14:10:54
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	Miscellaneous Incoming Letter	terminal_disclaimer_response.pdf	15839 823e94543b3dc24920a70046fc034ae99f3664c4	no	2

Warnings:

Information:

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

Exhibit 1005 – 029

2	Power of Attorney	poa.pdf	69300	no	1
			a7032b36d96bf1e69e4beb4bbfb4255c713fcc79		
Warnings:					
Information:					
3	Assignee showing of ownership per 37 CFR 3.73(b).	statment.pdf	72526	no	1
			1ac68ea3254c0bdd8d8b4cb3e2c3f82833968778		
Warnings:					
Information:					
Total Files Size (in bytes):			157665		
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

Applicant(s): Thomas A. Dye et al.	Group Art Unit: 2447
Application Serial No.: 12/646,892	Examiner name: NI, Suhan
Filed: December 23, 2009	Confirmation No: 1932
Title: MEDIA BASED COLLABORATION USING MIXED-MODE PSTN AND INTERNET NETWORKS	

RESPONSE TO DISSAPPROVAL OF TERMINAL DISCLAIMER

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

Dear Sir/Madam:

Applicant hereby files this Response to the Disapproval of Terminal Disclaimer by the United States Patent and Trademark Office ("USPTO") on July 5, 2012. In its disapproval, the Office stated no Power of Attorney or Statement Under 37 CFR 3.73(b) was on record, therefore the signor of the Terminal Disclaimer was not the attorney of record. In response, Applicant resubmits the Terminal Disclaimer, along with the Power of Attorney and Statement Under 37 CFR 3.73(b) of non-provisional application 10/796,560 filed on March 9, 2004, now U.S. Patent 7,664,056, of which the instant application is a continuation. Per the Office's instructions, no new fee is submitted.

Respectfully Submitted;

Dated: August 20, 2012

/Michael A. Kerr/
Michael A. Kerr
Reg. No. 42,722

Michael A. Kerr
KERR IP GROUP, LLC
P.O. Box 18600
Reno, NV 89511
Tel: (775) 624-8700
Fax: (775) 622-0686



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

48008 7590 08/16/2012
KERR IP GROUP, LLC
MICHAEL A. KERR
P.O. Box 18600
RENO, NV 89511

EXAMINER

NI, SUHAN

ART UNIT

PAPER NUMBER

2614

DATE MAILED: 08/16/2012

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

12/646,892

12/23/2009

Thomas A. Dye

MEET 09.001

1932

TITLE OF INVENTION: MEDIA BASED COLLABORATION USING MIXED-MODE PSTN AND INTERNET NETWORKS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$870	\$300	\$0	\$1170	11/16/2012

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 SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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.

48008 7590 08/16/2012
KERR IP GROUP, LLC
MICHAEL A. KERR
P.O. Box 18600
RENO, NV 89511

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.
-----------------	-------------	----------------------	---------------------	------------------

12/646,892	12/23/2009	Thomas A. Dye	MEET 09.001	1932
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TITLE OF INVENTION: MEDIA BASED COLLABORATION USING MIXED-MODE PSTN AND INTERNET NETWORKS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
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nonprovisional	YES	\$870	\$300	\$0	\$1170	11/16/2012
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EXAMINER	ART UNIT	CLASS-SUBCLASS
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NI, SUHAN	2614	370-260000
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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 credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

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

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

This collection of information 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.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/646,892	12/23/2009	Thomas A. Dye	MEET 09.001	1932
48008	7590	08/16/2012	EXAMINER	
KERR IP GROUP, LLC			NI, SUHAN	
MICHAEL A. KERR			ART UNIT	PAPER NUMBER
P.O. Box 18600			2614	
RENO, NV 89511				

DATE MAILED: 08/16/2012

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

The Patent Term Adjustment to date is 80 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 80 day(s).

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 Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

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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.	Applicant(s)	
	12/646,892	DYE ET AL.	
	Examiner	Art Unit	
	SUHAN NI	2614	

-- 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 7/2/2012.
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 15-32.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of 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. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
 - (b) ☐ 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).**
7. ☐ 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)

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date ____ 4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. ☐ Notice of Informal Patent Application 6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date ____. 7. ☐ Examiner's Amendment/Comment 8. ☐ Examiner's Statement of Reasons for Allowance 9. ☐ Other ____. |
|---|---|

/Suhan Ni/
Primary Examiner, Art Unit 2614

Issue Classification 	Application/Control No.	Applicant(s)/Patent under Reexamination	
	12/646,892	DYE ET AL.	
	Examiner	Art Unit	
	SUHAN NI	2614	

ISSUE CLASSIFICATION												
ORIGINAL					CROSS REFERENCE(S)							
CLASS		SUBCLASS			CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)						
370		260			370	352	354					
INTERNATIONAL CLASSIFICATION												
H	0	4	L	12/66								
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				/								
				/								
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					/Suhan Ni/ 7/30/2012					Total Claims Allowed: 18		
(Assistant Examiner) (Date)										O.G. Print Claim(s)		O.G. Print Fig.
(Legal Instruments Examiner) (Date)					(Primary Examiner) (Date)					1	4	

☐ Claims renumbered in the same order as presented by applicant				☐ CPA				☒ T.D.				☐ R.1.47			
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original		
	1	17	31												
	2	18	32												
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12646892
	Filing Date		2009-12-23
	First Named Inventor	DYE, Thomas	
	Art Unit	2614	
	Examiner Name	NI, Suhan	
	Attorney Docket Number	MEET 09.001	

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/SN/	1	7724744	B2	2010-05-25	Shur et al.	
/SN/	2	6870842	B1	2005-03-22	Caronni et al.	
/SN/	3	6977929	B1	2005-12-20	Caronni et al.	
/SN/	4	6788681	B1	2004-09-07	Hurren et al.	
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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/SN/	1	20100228879	A1	2010-09-10	Wiget et al.	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	12646892
Filing Date	2009-12-23
First Named Inventor	DYE, Thomas
Art Unit	2614
Examiner Name	NI, Suhan
Attorney Docket Number	MEET 09.001

/SN/	2	20030110288	A1	2003-06-12	Ramanujan et al.	
/SN/	3	20030147392	A1	2003-08-07	Hayashi et al.	
/SN/	4	20060039388	A1	2006-02-23	Shur et al.	
/SN/	5	20020029350	A1	2002-03-07	Cooper et al.	

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/SN/	1	WO 03003665	WO	A1	2003-01-03	Ahlard, David		☐

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
/SN/	1	Higgins, L. et al., "Tunneling Multicast Traffic Through Non-Multicast Aware Networks and Encryption Devices," MILCOM 2001. Proceedings. Communications for Network-Centric Operations: Creating the Information Force, McLean, VA October 28-30, 2001; IEEE Military Communications Conference, New York, NY: IEEE, US, Vol. 1 of 2, October 28, 2001, pages 296-300.	☐
/SN/	2	International Search Report, International Application No. PCT/US2004/007341, mailed September 7, 2004.	☐

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	12646892
Filing Date	2009-12-23
First Named Inventor	DYE, Thomas
Art Unit	2614
Examiner Name	NI, Suhan
Attorney Docket Number	MEET 09.001

EXAMINER SIGNATURE

Examiner Signature	/Suhan Ni/	Date Considered	07/30/2012
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12646892
	Filing Date		2009-12-23
	First Named Inventor	Thomas A. Dye et al.	
	Art Unit	1932	
	Examiner Name		
	Attorney Docket Number	MEETRIX 09.001	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/SN/	1	6751477	B1	2004-06-15	Alperovich et al.	

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U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/SN/	1	20030137976	A1	2003-06-24	Zhu et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1							☐

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	12646892
Filing Date	2009-12-23
First Named Inventor	Thomas A. Dye et al.
Art Unit	1932
Examiner Name	
Attorney Docket Number	MEETRIX 09.001

1		☐
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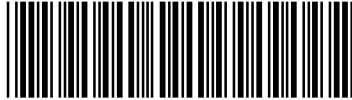
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EXAMINER SIGNATURE

Examiner Signature	/Suhan Ni/	Date Considered	01/29/2012
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***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<i>Index of Claims</i> 	Application/Control No. 12646892	Applicant(s)/Patent Under Reexamination DYE ET AL.
	Examiner SUHAN NI	Art Unit 2614

✓	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	01/29/2012	07/30/2012												
	1	✓	-												
	2	✓	-												
	3		-												
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Search Notes 	Application/Control No. 12646892	Applicant(s)/Patent Under Reexamination DYE ET AL.
	Examiner SUHAN NI	Art Unit 2614

SEARCHED			
Class	Subclass	Date	Examiner
370	260-263, 265, 352-356,	01/29/2012	SN
		7/30/2012	SN

SEARCH NOTES		
Search Notes	Date	Examiner
East	01/29/2012	SN
	7/30/2012	SN

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner
	ALL ABOVE	7/30/2012	SN

	/SUHAN NI/ Primary Examiner.Art Unit 2614
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Application Number 	Application/Control No. 12/646,892	Applicant(s)/Patent under Reexamination DYE ET AL.	
Document Code - DISQ		Internal Document – DO NOT MAIL	

TERMINAL DISCLAIMER	☐ APPROVED	☒ DISAPPROVED
Date Filed : 07/02/12	This patent is subject to a Terminal Disclaimer	

Approved/Disapproved by:

The person who signed the Td does not have POA, 3.73(b) statement and thus not attny of record, nor listed in the OATH, see FP 14.29.01 and 14.30.

Also resubmit Td with these papers, NO Fee is required.

Angie Walker

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**TERMINAL DISCLAIMER TO OBIATE A DOUBLE PATENTING
REJECTION OVER A "PRIOR" PATENT**Docket Number (Optional)
MEET 09.001

In re Application of:

Application No.: 12/646,892

Filed: December 23, 2009

For: MEDIA BASED COLLABORATION USING MIXED-MODE PSTN AND INTERNET NETWORKS

The owner*, MEETRIX, Inc., of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of **prior patent** No. 7,664,056 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:

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

Check either box 1 or 2 below, if appropriate.

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

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

2. ☒ The undersigned is an attorney or agent of record. Reg. No. 42722

/Michael A. Kerr/

Signature

07/02/12

Date

Michael A. Kerr

Typed or printed name

775-624-8700

Telephone Number

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

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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.

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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.

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PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)	Docket Number (Optional) MEET 09.001
Application Number 12/646,892	Filed 12/23/2009
For MEDIA BASED COLLABORATION USING MIXED-MODE PSTN AND INTERNET NETWORKS	
Art Unit 2614	Examiner NI, SUHAN

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

	<u>Fee</u>	<u>Small Entity Fee</u>	
☐ One month (37 CFR 1.17(a)(1))	\$150	\$75	\$ _____
☒ Two months (37 CFR 1.17(a)(2))	\$560	\$280	\$ <u>280</u>
☐ Three months (37 CFR 1.17(a)(3))	\$1270	\$635	\$ _____
☐ Four months (37 CFR 1.17(a)(4))	\$1980	\$990	\$ _____
☐ Five months (37 CFR 1.17(a)(5))	\$2690	\$1345	\$ _____

☒ Applicant claims small entity status. See 37 CFR 1.27.

☐ A check in the amount of the fee is enclosed.

☒ Payment by credit card. Form PTO-2038 is attached.

☐ The Director has already been authorized to charge fees in this application to a Deposit Account.

☐ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number _____.

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

I am the ☐ applicant/inventor.

☐ assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed (Form PTO/SB/96).

☒ attorney or agent of record. Registration Number 42,722

☐ attorney or agent under 37 CFR 1.34.
Registration number if acting under 37 CFR 1.34 _____

/Michael A. Kerr/	July 2, 2012
Signature	Date
Michael A. Kerr	775-624-8700
Typed or printed name	Telephone Number

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

☒ Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.136(a). 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 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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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.

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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).
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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)).
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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 Patent Application Fee Transmittal

Application Number:	12646892			
Filing Date:	23-Dec-2009			
Title of Invention:	Media Based Collaboration Using Mixed-Mode PSTN and Internet Networks			
First Named Inventor/Applicant Name:	Thomas A. Dye			
Filer:	Michael A. Kerr/Julie Dawes			
Attorney Docket Number:	MEET 09.01			
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 2 months with \$0 paid	2252	1	280	380

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

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Statutory or terminal disclaimer	2814	1	80	80
Total in USD (\$)				360

Electronic Acknowledgement Receipt

EFS ID:	13164927
Application Number:	12646892
International Application Number:	
Confirmation Number:	1932
Title of Invention:	Media Based Collaboration Using Mixed-Mode PSTN and Internet Networks
First Named Inventor/Applicant Name:	Thomas A. Dye
Customer Number:	48008
Filer:	Michael A. Kerr/Julie Dawes
Filer Authorized By:	Michael A. Kerr
Attorney Docket Number:	MEET 09.01
Receipt Date:	02-JUL-2012
Filing Date:	23-DEC-2009
Time Stamp:	20:36:08
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$360
RAM confirmation Number	7346
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part App	Pages (If appld.)
			Zohu Corp and Zohu Corp		Part 1 of 10

1		OAR_070212.pdf	55936 3f0e9a0fab46024a09125b9a2ca7f413891ff1	yes	14
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Amendment/Req. Reconsideration-After Non-Final Reject		1	1	
	Claims		2	11	
	Applicant Arguments/Remarks Made in an Amendment		12	14	
Warnings:					
Information:					
2	Terminal Disclaimer Filed	termial_disclaimer.pdf	374607 03cde4af0cb6900d039267cf6203265dae52e0d8	no	2
Warnings:					
Information:					
3	Extension of Time	extention_070212.pdf	286936 be0419ea902c13455e0f78e947921555527a84ec	no	2
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	32090 b7a15f8f393069c3136e9eb718179ba535d3afd9	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			749569		

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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

Applicant(s): Thomas A. Dye et al.	Group Art Unit: 1932
Application Serial No.: 12/646,892	Examiner: NI, Suhan
Filed: December 23, 2009	Conf. No.: 1932
Title: MEDIA BASED COLLABORATION USING MIXED-MODE PSTN AND INTERNET NETWORKS	

AMENDMENT AND RESPONSE

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

Dear Sir/Madam:

This Amendment and Response is filed in response to the Office Action mailed on February 3, 2012 in the above referenced patent application. Allowance of the pending claims in view of the following amendments and remarks is respectfully requested.

Amended Claims begin on Page 2.

Remarks begin on Page 12.

Amendments to the Claims:

This listing of the claims below replaces the listings of the claims in the present patent application.

Listing of Claims:**1. (Previously Cancelled)**

2. (Cancelled) ~~The method of claim 1, wherein the telephone participant participating in the multi-participant video conference comprises:~~

~~the telephone participant speaking in the video conference;~~
~~generating digital voice data in response to the telephone participant speaking;~~
~~transforming the digital voice data into IP packets;~~
~~transmitting the IP packets containing the digital voice data to the first participant;~~
~~at a computer system of the first participant, decoding the IP packets containing the digital voice data to produce the digital voice data;~~
~~mixing the digital voice data of the telephone participant with digital voice data of the first participant;~~
~~providing the mixed digital voice data of the telephone participant and the first participant to the other participants.~~

3. (Cancelled) ~~The method of claim 2, further comprising:~~

~~mixing the digital voice data of the first participant and the digital voice data of the other participants;~~
~~providing the mixed digital voice data of the first participant and the other participants to the telephone participant~~

4. (Cancelled) ~~The method of claim 1, wherein the telephone participant participating in the multi-participant video conference comprises:~~

~~the telephone participant speaking in the video conference;~~
~~generating digital voice data in response to the telephone participant speaking;~~
~~transforming the digital voice data into IP packets;~~

~~configuring the IP packet with a group address according to a multicast protocol to create a multicast IP packet;~~

~~encapsulating the multicast IP packet as a unicast packet;~~

~~transmitting the unicast packet over the virtual private networks across the Internet between one or more appliances;~~

~~one or more of the appliances determining the multicast data from the unicast packet; and~~

~~the appliances providing the multicast data to each of the other participants in the group address.~~

5. (Previously Cancelled)

6. (Previously Cancelled)

7. (Previously Cancelled)

8. (Previously Cancelled)

9. (Cancelled) ~~A method for adding a telephone participant to a multi-participant audio-video conference, comprising:~~

~~sending a first message to each of a plurality of multicast appliances over the Internet, wherein the first message comprises a group address which identifies the participants;~~

~~each of the multicast appliances receiving the first message;~~

~~establishing a plurality of virtual private networks across the Internet routes between the multicast appliances;~~

~~one or more of the participants communicating in the multi-participant video conference;~~

~~the telephone participant joining the multi-participant video conference, wherein said joining comprises:~~

~~the telephone participant calling into a gateway server;~~

~~the telephone participant providing conference ID information;~~

~~the PSTN gateway server establishing communication with a conferencing server;~~

~~authenticating the telephone participant; and~~

~~transmitting multicast group information to the gateway server;~~

~~wherein the gateway server is operable to use the multicast group information to enable the telephone participant to participate in the multi-participant video conference.~~

10. (Cancelled) ~~The method of claim 9,~~

~~wherein the telephone participant participating in the multi-participant video conference comprises:~~

~~the telephone participant speaking in the video conference;~~

~~generating digital voice data in response to the telephone participant speaking;~~

~~the gateway transforming the digital voice data into IP packets;~~

~~configuring the IP packet with a group address according to a multicast protocol to create a multicast IP packet;~~
~~encapsulating the multicast IP packet as a unicast packet;~~
~~transmitting the unicast packet over the virtual private networks across the Internet between one or more appliances;~~
~~one or more of the appliances determining the multicast data from the unicast packet; and~~
~~the appliances providing the multicast data to each of the other participants in the group address.~~

11. (Cancelled) A method for adding a first telephone participant to a multi-participant video conference, comprising:

~~sending a first message to each of a plurality of multicast appliances over the Internet, wherein the first message comprises a group address which identifies the participants;~~

~~each of the multicast appliances receiving the first message;~~

~~establishing a plurality of virtual private networks across the Internet routes between the multicast appliances;~~

~~one or more of the participants communicating in the multi-participant video conference; and~~

~~one or more telephone participants joining the multi-participant video conference.~~

12. (Previously Cancelled)

13. (Previously Cancelled)

14. (Previously Cancelled)

15. (Currently Amended) A method for adding a telephone participant to a multi-participant audio-video conference, the method comprising:

sending ~~Sending~~ a first message to each of a plurality of multicast appliances over the Internet, wherein the first ~~[[first]]~~ message comprises a group address which identifies a plurality of ~~[[the]]~~ participants;

each of the multicast appliances receiving the first message;

establishing a plurality of virtual private networks across the Internet routes between the multicast appliances;

enabling at least one ~~one or more~~ of the participants to communicate ~~communicating~~ in the multi-participant video conferences;

the telephone participant joining the multi-participant video conference, wherein said joining comprises:

the telephone participant calling into a gateway server;

the telephone participant providing conference ID information;

the ~~[[PSTN]]~~ gateway server establishing communication with a conferencing server;

authenticating the telephone participant; and

transmitting multicast group information to the gateway server;

wherein the gateway server is operable to use the multicast group information to enable the telephone participant to participate in the multi-participant video conference.

16. (Previously Presented) The method of claim 15, wherein the telephone participant participating in the multi-participant video conference comprises:

the telephone participant speaking in the video conference;

generating digital voice data in response to the telephone participant speaking;

the gateway transforming the digital voice data into IP packets;

configuring the IP packet with a group address according to a multicast protocol to create a multicast IP packet;

encapsulating the multicast IP packet as a unicast packet;

transmitting the unicast packet over the virtual private networks across the Internet between one or more appliances;

one or more of the appliances determining the multicast data from the unicast packet; and

the appliances providing the multicast data to each of the other participants in the group address.

17. (New) A method for adding a telephone participant to a multi-participant audio-video conference comprising:

sending a first message to each of a plurality of multicast appliances over the Internet, wherein the first message comprises a group address which identifies the participants;

each of the multicast appliances receiving the first message;

establishing a plurality of virtual private networks across the Internet routes between the multicast appliances;

enabling at least one of the participants to communicate in the multi-participant video conferences;

the telephone participant joining the multi-participant video conference, wherein said joining comprises:

the telephone participant providing conference ID information;

authenticating the telephone participant; and

the telephone participant participating in the multi-participant video conference comprises:

the telephone participant speaking in the video conference; and

generating digital voice data in response to the telephone participant speaking.

18. (New) The method for adding a telephone participant to a multi-participant audio-video conference of claim 17, wherein the telephone participant joining the multi-participant video conference further comprises:

the telephone participant calling into a gateway server; and
the gateway server establishing communication with a conferencing server.

19. (New) The method for adding a telephone participant to a multi-participant audio-video conference of claim 18, wherein the telephone participant joining the multi-participant video conference further comprises:

transmitting multicast group information to the gateway server; and
wherein the gateway server is operable to use the multicast group information to enable the telephone participant to participate in the multi-participant video conference.

20. (New) The method for adding a telephone participant to a multi-participant audio-video conference of claim 18 wherein the gateway server includes a PSTN gateway server.

21. (New) The method for adding a telephone participant to a multi-participant audio-video conference of claim 18, wherein the telephone participant participating in the multi-participant video conference further comprises:

the gateway transforming the digital voice data into IP packets; and
configuring the IP packet with a group address according to a multicast protocol to create a multicast IP packet.

22. (New) The method for adding a telephone participant to a multi-participant audio-video conference of claim 21, wherein the telephone participant participating in the multi-participant video conference further comprises:

encapsulating the multicast IP packet as a unicast packet.

23. (New) The method for adding a telephone participant to a multi-participant audio-video conference of claim 22, wherein the telephone participant participating in the multi-participant video conference further comprises:

transmitting the unicast packet over the virtual private networks across the Internet between one or more appliances.

24. (New) The method for adding a telephone participant to a multi-participant audio-video conference of claim 23, wherein the telephone participant participating in the multi-participant video conference further comprises:

one or more of the appliances determining the multicast data from the unicast packet; and

the appliances providing the multicast data to each of the other participants in the group address.

25. (New) A system for adding a telephone participant to a multi-participant audio-video conference, the system comprising:

a first message communicated to each of a plurality of multicast appliances over the Internet, wherein the first message comprises a group address which identifies the participants;

each of the multicast appliances receiving the first message;

plurality of virtual private networks established across the Internet routes between the multicast appliances;

one or more of the participants communicating in the multi-participant video conferences;

the telephone participant configured to join the multi-participant video conference, wherein the telephone participant provides a conference ID information and the telephone participant is authenticated; and

the telephone participant configured to participate in the multi-participant video conference, wherein the telephone participant speaks in the video conference and digital voice data being generated in response to the telephone participant speaking.

26. (New) The system of claim 25, wherein the telephone participant configured to join the multi-participant video conference further comprises the telephone participant calling into a gateway server, and the gateway server establishing communication with a conferencing server.

27. (New) The system of claim 25, wherein the telephone participant configured to join the multi-participant video conference further comprises transmitting multicast group information to the gateway server, and the gateway server is operable to use the multicast group information to enable the telephone participant to participate in the multi-participant video conference.

28. (New) The system of claim 25 wherein the gateway server includes a PSTN gateway server.

29. (New) The system of claim 25, wherein the telephone participant participating in the multi-participant video conference further comprises:

- the gateway transforming the digital voice data into IP packets; and
- the IP packet with a group address configured according to a multicast protocol to create a multicast IP packet.

30. (New) The system of claim 29, wherein the telephone participant participating in the multi-participant video conference further comprises the multicast IP packet being encapsulated as a unicast packet.

31. (New) The system of claim 30, wherein the telephone participant participating in the multi-participant video conference further comprises the unicast packet configured to be transmitted over the virtual private networks across the Internet between at least one appliance.

32. (New) The system of claim 31, wherein the telephone participant participating in the multi-participant video conference further comprises:

at least one of the appliances determining the multicast data from the unicast packet; and

the appliances providing the multicast data to each of the other participants in the group address.

REMARKS

The present Amendments and Remarks are in response to the Office Action dated February 3, 2012 in which the Office Action issued a rejection of claims 1 and 2. The Examiner's Action indicated the Action was responsive to the Preliminary Amendment filed on 1/19/2010. The Examiner provided a Double Patenting rejection. In this Response the Applicant submits new claims and responds to the Examiner's Office Action. No new matter has been added.

A. Claim Amendments

In this Action, the Applicant clearly cancels claims 1-14, amends previously presented claim 15, and submits herewith new claims 17-32. A total of 18 claims are presented. Three independent claims are presented herein.

Claims 15 and 16 are substantially similar to cancelled claims 9 and 10, respectively. The Examiner shall appreciate that in the parent case 10/796,560 (now Patent No. 7,664,056) prosecuted before the same Examiner included an Action (dated June 26, 2008) that identified to two distinct species of claimed invention. The first species identified by the Examiner was for claims 1-8 and 11, and the Examiner stated the claims were drawn to a multi-participant video conference. The second species identified by the Examiner was for claims 9 and 10, and the Examiner stated the claims were drawn to a method for adding a telephone participant to a multi-participant audio-video conference. In this Continuation patent application, the Applicant has continues to prosecute claims 9 and 10 via recently amended claims 15 and 16. Additionally, the Applicant has added new independent claims 17 and 25 to include some elements of claim 15 and some elements of claim 16. More particularly, claim 17 and claim 25 include:

- the telephone participant joining the multi-participant video conference, wherein said joining comprises:
 - the telephone participant providing conference ID information;
 - authenticating the telephone participant; and
- the telephone participant participating in the multi-participant video conference comprises:
 - the telephone participant speaking in the video conference; and

generating digital voice data in response to the telephone participant speaking.

These limitations are drawn from claims 15 and 16.

With respect to claims 18 and 26, the limitations of calling into a gateway server and establishing communication with a conferencing server are drawn out from claim 15.

With respect to claims 19 and 27, the limitations transmitting multicast group information and the gateway server being operable to use the multicast group information is also drawn from claim 15.

In claims 20 and 28, the limitations are drawn to a PSTN gateway and this limitation was in the previously presented claim 15.

In claims 21 and 29, the limitations of these dependent claims relate to the gateway transforming digital voice data into IP packets and configuring the IP packet, and this limitation was a claim element in previously presented claim 16. Similarly claims 22-24 and claims 30-32 are also drawn from claim elements in previously presented claim 16.

B. Double Patenting

The Examiner rejected previously presented claims 15 and 16 on the basis of a nonstatutory double patent rejection.

In response, the Applicant submits herewith a timely filed terminal disclaimer.

C. Conclusion

Applicant respectfully responds to the Examiner's Action dated February 3, 2012. By this amendment, the Applicant has clearly cancelled claims 1-14 and has elected to prosecute claims 15-32. Applicant respectfully submits that the claims are now in condition for allowance, which action is respectfully requested.

Respectfully Submitted,

Dated: July 3, 2012

/Michael A. Kerr/

Michael A. Kerr
Reg. No. 42,722

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Reno, NV 90521
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Fax: (775) 622-0686

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

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 12/646,892		Filing Date 12/23/2009		☐ To be Mailed	
APPLICATION AS FILED – PART I										
(Column 1)			(Column 2)			SMALL ENTITY ☒ OR		OTHER THAN SMALL ENTITY		
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	OR	RATE (\$)	FEE (\$)			
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A				
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A				
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A				
TOTAL CLAIMS (37 CFR 1.16(j))	minus 20 =	*	X \$	=	OR	X \$	=			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$	=		X \$	=			
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
			TOTAL			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)			SMALL ENTITY OR		OTHER THAN SMALL ENTITY		
AMENDMENT	07/02/2012	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	* 18	Minus	** 20	= 0	X \$30 =	0	OR	X \$ =	
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0	X \$125 =	0	OR	X \$ =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE	
(Column 1)			(Column 2)			SMALL ENTITY OR		OTHER THAN SMALL ENTITY		
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)
	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))									
	☐ 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 number found in the appropriate box in column 1.										

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12646892
	Filing Date		2009-12-23
	First Named Inventor	DYE, Thomas	
	Art Unit	2614	
	Examiner Name	NI, Suhan	
	Attorney Docket Number	MEET 09.001	

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	1	7724744	B2	2010-05-25	Shur et al.	
	2	6870842	B1	2005-03-22	Caronni et al.	
	3	6977929	B1	2005-12-20	Caronni et al.	
	4	6788681	B1	2004-09-07	Hurren et al.	
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First Named Inventor	DYE, Thomas
Art Unit	2614
Examiner Name	NI, Suhan
Attorney Docket Number	MEET 09.001

2	20030110288	A1	2003-06-12	Ramanujan et al.	
3	20030147392	A1	2003-08-07	Hayashi et al.	
4	20060039388	A1	2006-02-23	Shur et al.	
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	1	WO 03003665	WO	A1	2003-01-03	Ahlard, David		☐

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	1	Higgins, L. et al., "Tunneling Multicast Traffic Through Non-Multicast Aware Networks and Encryption Devices," MILCOM 2001. Proceedings. Communications for Network-Centric Operations: Creating the Information Force, McLean, VA October 28-30, 2001; IEEE Military Communications Conference, New York, NY: IEEE, US, Vol. 1 of 2, October 28, 2001, pages 296-300.	☐
	2	International Search Report, International Application No. PCT/US2004/007341, mailed September 7, 2004.	☐

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¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	12646892
Filing Date	2009-12-23
First Named Inventor	DYE, Thomas
Art Unit	2614
Examiner Name	NI, Suhan
Attorney Docket Number	MEET 09.001

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

- ☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

- ☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

- ☐ See attached certification statement.
- ☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- ☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Michael A. Kerr/	Date (YYYY-MM-DD)	2012-04-18
Name/Print	Michael A. Kerr	Registration Number	42722

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PATENT COOPERATION TREATY

A3

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Applicant's or agent's file reference

5757-00402

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within 45 ~~xxxx~~ days/days
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International application No.

PCT/US2004/007341

International filing date
(day/month/year)

10/03/2004

Applicant

MEETRIX CORPORATION

1. This International Searching Authority

- (i) considers that there are 3 (number of) inventions claimed in the international application covered by the claims indicated ~~XXXX~~ on the extra sheet:

and it considers that the international application does not comply with the requirements of unity of invention (Rules 13.1, 13.2 and 13.3) for the reasons indicated ~~XXXX~~ on the extra sheet:

- (ii) ☒ has carried out a partial international search (see Annex) ☐ will establish the international search report on those parts of the international application which relate to the invention first mentioned in claims Nos.:

1-9

- (iii) will establish the international search report on the other parts of the international application only if, and to the extent to which, additional fees are paid

2. The applicant is hereby **invited**, within the time limit indicated above, to pay the amount indicated below:

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The applicant is informed that, according to Rule 40.2(c), the payment of any additional fee may be made under protest, i.e., a reasoned statement to the effect that the international application complies with the requirement of unity of invention or that the amount of the required additional fee is excessive.

3. ☐ Claim(s) Nos. _____ have been found to be unsearchable under Article 17(2)(b) because of defects under Article 17(2)(a) and therefore have not been included with any invention.

Name and mailing address of the International Searching Authority



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Alistair Finnie

1. The present communication is an Annex to the invitation to pay additional fees (Form PCT/ISA/206). It shows the results of the international search established on the parts of the international application which relate to the invention first mentioned in claims Nos.:
- see 'Invitation to pay additional fees'
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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	HIGGINS L ET AL: "Tunneling multicast traffic through non-multicast-aware networks and encryption devices" MILCOM 2001. PROCEEDINGS. COMMUNICATIONS FOR NETWORK-CENTRIC OPERATIONS: CREATING THE INFORMATION FORCE. MCLEAN, VA, OCT. 28 - 30, 2001, IEEE MILITARY COMMUNICATIONS CONFERENCE, NEW YORK, NY : IEEE, US, vol. VOL. 1 OF 2, 28 October 2001 (2001-10-28), pages 296-300, XP010579024 ISBN: 0-7803-7225-5	1-4, 7-9
Y	abstract page 296, column 2, line 28 - page 298, column 2, line 40 page 300, column 2, line 2 - line 16; figures 1,2	5,6
Y	----- WO 03/003665 A (BYSTROEM LEIF ; HANSSON URBAN (SE); AHLARD DAVID (SE); HYGLO AB (SE);) 9 January 2003 (2003-01-09)	5,6
A	abstract page 1, line 32 - page 5, line 20 -----	2-4, 7-9

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
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- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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- *G* document member of the same patent family

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-9

Method for data transport on an IP network using tunneling

2. claims: 10-11

Method for reduction of multipoint transport delay

3. claims: 12-16

Method for establishing multi-participant conferences

The application lacks unity, Rule 13.1 PCT, as the application does not relate to one single invention or group of inventions linked as to form a single inventive concept.

The only technical relationship between the three alleged inventions lies in the fact that data is transported or transmitted. However, this concept is not new since it corresponds to a well known and wide technical field.

Thus, there is no special technical feature which could serve as a basis for a common inventive concept.

Hence, the Search Division considers that the application comprises the above listed three different inventions, which are not linked so as to form a single inventive concept.

(19) World Intellectual Property Organization
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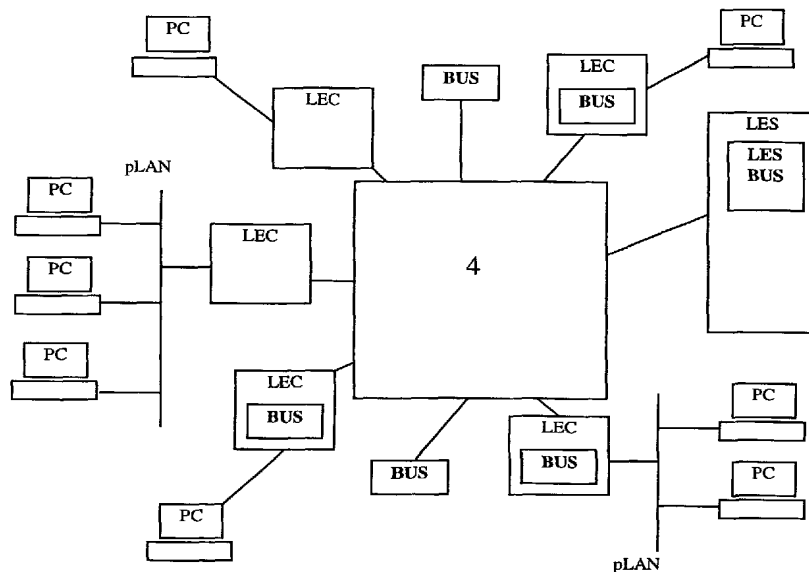
(43) International Publication Date
9 January 2003 (09.01.2003)

PCT

(10) International Publication Number
WO 03/003665 A1

- (51) International Patent Classification⁷: **H04L 12/46**
- (21) International Application Number: PCT/SE01/01473
- (22) International Filing Date: 27 June 2001 (27.06.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (71) Applicant (for all designated States except US): **HYGLO AB** [SE/SE]; Västberga Alle' 60, S-126 75 Stockholm (SE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **BYSTRÖM, Leif** [SE/SE]; Tegelbruksvägen 37, S-126 34 Hägersten (SE). **AHLARD, David** [SE/SE]; Sandfjärdsgatan 105, S-120 56 Årsta (SE). **BERGKVIST, Joakim** [SE/SE]; Barks 12, S-170 73 Solna (SE). **HANSSON, Urban** [SE/SE]; Porlabacken 27, S-124 70 Bandhagen (SE).
- (74) Agents: **SOHLMAN, Leif** et al.; Telia Research AB, Koncernpatent, S-123 86 Farsta (SE).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DISTRIBUTED SERVER FUNCTIONALITY FOR EMULATED LAN



(57) Abstract: A system for emulating a local are network on top of a global communication network (4), the system comprising clients units (LEC) and a server (LES) which are connected to said global network (4), and a broadcast functionality (BUS) for relaying messages to all clients in the emulated local area network. The system is characterized in that said broadcast functionality is distributed and implemented in more than one network unit node in the emulated local area network. The global network is preferably an IP network, such as the Internet, and act as a backbone for the emulated local area network.

DISTRIBUTED SERVER FUNCTIONALITY FOR EMULATED LAN

Field of the invention

5 The invention relates in general to computer networks and more in particular to enabling mechanisms for delegation and distribution of centralised network server functions to the edge of computer networks. Specifically, the invention relates to distributed broadcast server functionality used for emulated local area networks (LAN) on global networks.

10

Background

Most enterprises are located at multiple sites where each site has its own local area network (LAN). A site is defined as anything from a head-quarter, or an affiliation company site, to a single employee's remote office site. Some kind of communication infrastructure is then used to interconnect the different sites. The Internet evolution can roughly be categorised into two main areas:

15 a) Internet as the global communication infrastructure. Traditionally, companies used so called leased lines, provided by telephone companies to interconnect their sites. Separated firewall solutions were used for accessing the Internet. During the last years, companies are no longer using Internet only for external communication, more and more companies are trying out new network solutions that enables them to also use Internet for company-internal communication. Internet has become their site-to-site interconnecting medium.

25 b) Broadband Internet access. In parallel with the above, more and more broadband access solutions are rolled out by different network access providers. This enables anyone to upgrade their access to Internet from a traditional dial-up PSTN/ISDN (Public Switched Telephone Network/Integrated Services Digital Network) access solution to a broadband solution, e.g. ADSL (Asymmetric Digital Subscriber Line), Cable or Ethernet, with direct access to Internet. Apart from the obvious broadband benefits, the network access user is also able to always be connected to the Internet.

35 The common name for most of the network solutions that interconnects multiple sites over Internet is "virtual private networks" (VPN). VPNs can be implemented in numerous ways, this is well explained in e.g. the IETF by B. Gleeson et. al, "A Framework for IP Based Virtual private Networks", RFC 2764, February 2000, IP meaning Internet Protocol. A VPN is a private network that is configured within a public network. For years, common carriers have built VPNs that appear as private national or international networks to the customer, but physically share backbone trunks with other customers. VPNs enjoy the security of a

private network via access control and encryption, while taking advantage of the economies of scale and built-in management facilities of large public networks. Today, there is tremendous interest in VPNs over the Internet, especially due to the constant threat of hacker attacks. The VPN adds that extra layer of security, and a huge growth in VPN use is expected. In general, the different VPN solutions can be categorized into two main groups; customer premises equipment (CPE) based solutions or network based solutions.

Internet is a public data network based on network paradigms such as equal and best effort traffic treatment. All traffic crossing the Internet is public and insecure resulting in a number of problems that need to be solved, e.g. end-to-end security communication between enterprise sites. Some problems have solutions supported by several VPN system vendors, such as encrypted IP tunnelling between end-users using the IPSec architecture described by S. Kent and R. Atkinson in "Security Architecture for the Internet Protocol", RFC 2401, November 1998, or stand-alone firewall solutions, desktop software VPN clients. e.g. Microsoft® VPN, etc. A PC that is connected to Internet can, not easily but it is possible, be used as a transit node by a hacker, e.g. the hacker could use a Trojan horse program to get inside the PC. Well inside, the Trojan horse program may be adapted to release application software that will act as some authenticated software installed by the owner of the PC. It is very difficult for layer 2 and 3 firmware/software to detect this kind of malicious applications. Therefore, it is recommendable to have VPN control and management software and firmware functions and end-user applications, such as service login software, "authenticated" software applications that in some way uses the network infrastructure provided by the VPN service, separated on different hardware platforms. What generally should be avoided, is having PC clients that are responsible for configuring the actual VPN setup, i.e. having access to the lookup-table for other VPN members public IP addresses, having access to information on how to authenticate, perform integrity check and encrypt traffic aimed for the VPN etc.

When a Virtual Private Network (VPN) is implemented as an emulated LAN on top of a standard IP network such as Internet, one have to provide for the broadcast functionality that is a basic (intrinsic) function on a level-2 media such as Ethernet. A number of broadcast based services are defined on the link-level. Examples are service discovery protocols and the layer-2 Address Resolution Protocol (ARP). The broadcast functionality could be implemented in different ways. Examples of different architectures are:

- Broadcast functionality implemented as a centralized server;
- Broadcast functionality implemented using IP multicast;
- Broadcast functionality implemented using emulated multicast.

ATM Forum's LANE (LAN Emulation) standard is an example of centralised server architecture. This server emulates the broadcast functionality on the LAN. When a LAN Emulating Client (LEC) sends a broadcast, the broadcast is sent to the BUS (Broadcast and Unknown Server) that relays this message to all of the other
5 clients on the emulated LAN.

The technical problems with the described architecture are related to scalability and reliability. When a large number of LAN emulating clients are sending broadcasts to the broadcast server each client will experience a performance degradation of the broadcast service due to the load on the broadcast server. The
10 traffic load on the link connecting the broadcast server will also increase with a large number of LAN clients. This will ultimately become a bottleneck. This bottleneck will further reduce the broadcast performance experienced by the LAN clients. In addition to the performance problem, a single broadcast server will also be a single point of failure for broadcast based services offered by the emulated
15 LAN.

When the broadcast functionality is implemented by using IP multicast, the LAN emulating clients join a multicast network. This network constitutes the broadcast medium for the emulated LAN. Obviously, to be able to use IP multicast as the broadcast medium, the clients have to interact with a multicast service offered
20 by underlying IP network. This interaction could be done via a LAN emulating server, the management system of the emulated LAN or by other means. A technical problem with this solution is the dependency of the IP multicast functionality in the IP backbone and the need for the emulated LAN to interact with IP backbone.

25 Summary of the invention

According to first aspect of the invention, a system for emulating a local area network on top of a global communication network is provided. The system comprises clients units and a server which are connected to said global network. Furthermore, the system comprises a broadcast functionality for relaying messages
30 to all clients in the emulated local area network. According to the invention said broadcast functionality is distributed and implemented in more than one network unit node in the emulated local area network. Said global network preferably acts as a backbone for the emulated local area network.

In one embodiment a choice of which clients unit has an up and running
35 broadcast functionality unit is defined by the server, and is based on predetermined performance criteria, such as available bandwidth to the backbone network.

Preferably the distributed broadcast functionality is hierarchically structured, wherein a master and initial broadcast functionality unit, constituting the top of said hierarchy, is configured in said server.

In one embodiment the connections between the nodes of the emulated local area network are implemented as a multicast network transmitted through the global network. In another embodiment the connections between the nodes of the emulated local area network may be implemented as single-cast addresses, forming tunnels
5 through said global network.

Preferably each network unit having a distributed broadcasting functionality comprises means for executing an algorithm for preventing broadcast messages from being indefinitely sent between the network unit nodes having the distributed broadcasting functionality. In one embodiment this is arranged by an algorithm
10 being based on a checksum of the broadcast packet, which checksum uniquely identifies the broadcast packet. The checksum is cached by the broadcasting functionality for the purpose of dropping subsequently arriving broadcast packets having the same checksum. In another embodiment another algorithm is used, based on a hop counter which is decremented by each broadcasting functionality unit upon
15 arrival, said algorithm functioning to drop subsequent incoming packets when the counter has reached zero.

Preferably said global network is an Internet Protocol network, such as the Internet.

According to a second aspect of the invention, a method is provided for taking
20 the steps described in this application, for emulating a distributed local area network.

Brief description of the drawings

Preferred embodiments of the invention are described below with references
25 being made to the drawings, on which

Fig. 1 illustrates the system overview according to an embodiment of the present invention;

Fig. 2 illustrates traffic monitoring and session overtaking according to an embodiment of the present invention;

30 Fig. 3 illustrates a distributed broadcasting functionality based on a global network backbone, according to an embodiment of the invention; and

Fig. 4 illustrates the hierarchical configuration of the broadcasting functionality according to an embodiment of the invention.

Fig. 5 illustrates an emulated LAN on top of a global IP network, according to
35 an embodiment of the invention.

Detailed description of preferred embodiments

According to one aspect, the system according to the present invention is based on a standard IP network like the public Internet. The system comprises multiple

VPN clients and at least one server. One server can be a distributed cluster of physical boxes. The VPN clients could be implemented as drivers on the client computer but are for security reasons preferably implemented in a stand alone hardware box. A purpose of this mechanism is to establish dynamic and secure Virtual Local area Networks between some or all of the clients. A virtual network is created by establishing connection groups in a VPN server. The server has a service device for keeping track of connected machines and mapping them to IP addresses. In one embodiment this is obtained using ARP (Address Resolution Protocol), an IP protocol used to obtain a node's physical address. A client station sends an ARP request to the VPN server with the VPN internal IP address of the target node it wishes to communicate with, and the VPN server responds by sending back the external IP address so that packets can be transmitted. ARP returns the layer-2 address for a layer-3 address. This mechanism also handles distribution of public keys to form complete security associations. For handling broadcasts an emulated broadcast service is implemented in the server, preferably using an IP multicast group or as a separate broadcast service. Data sent directly from one machine in the virtual network to another is tunnelled over IP directly to the IP address of the receiving client. The mechanism includes both the case where data packets are tunnelled directly over IP and when an layer-2 media such as Ethernet is bridged onto the IP network.

Fig. 5 illustrates an embodiment of the system according to the present mechanism, wherein a network 4 comprises five nodes; four VPN clients 31 - 34 with global addresses C1 - C4, and a server S. All of these are connected to and have a valid address in the physical network 4. These nodes are interconnected using standard Internet routing procedures, but the clients 31 - 34 are not on the same LAN. On top of this network infrastructure, clients 31, 32 and 33 form a virtual network 30 with local addresses D1, D2 and D3. In the illustrated case the clients in this VPN appear to be on the same local area network. The reason for this is the broadcast service, i.e. the service device, which delivers all packets for the local broadcast domain to all machines on the VPN 30. Thus service discovery mechanisms or layer-2 ARP operate transparently on top of the virtual network. When client 31 on the VPN wants to transmit a packet directly to client 32 the client-software requests the physical address C2 from server S, based upon the local address D2, and possible security keys required for talking to D2 from S. D1 is then able to transmit the packet in a secure tunnel directly to D2 without passing the server S.

The above provides an effective and user friendly mechanism for establishing Virtual Private Networks over generic IP connections. Broadcast services and service discovery protocols that normally require a direct layer-2 interconnection

may work independently of the actual network structure. It also provides the possibilities of distributed network broadcast handling, where rules and configuration options may be cached in the end nodes of the network instead of in a centralised server. The described mechanism is unique in that it presents a complete distributed emulated LAN on top of an IP network where access and attributes such as security associations are completely controlled by a server. Most current solutions uses static tunnels. Either permanent connections are set up between the members of the VPN or tunnel servers which basically works as modem pools only you “dial” an IP number. This means that all traffic no matter it’s final destination goes through this one box. In particular traffic going to sites in the VLAN (Virtual LAN) other than that of the VLAN server comes in through the server access and turns. The broadcast service allows service discovery protocols designed for local networks to function on the VPN while the ARP mechanism allows for dynamic establishment of secure tunnels directly between endpoints. The well known LANE (LAN Emulation) standard was focused entirely on ATM (Asynchronous Transfer Mode) and featured no integrated security handling. Lane introduces, inter alia, the ability to connect Ethernet and Token Ring networks together via ATM. LANE makes the process transparent, requiring no modification to Ethernet and Token Ring stations. LANE allows common protocols, such as IP, IPX, AppleTalk and DECnet, to ride over an ATM backbone. LAN emulation has been implemented and verified over ATM. However, since the system architecture itself by design avoids sending all data through the server, the bottleneck problem with overloaded server links is completely avoided.

In general, the target system relies on a decision scheme for a third-party overtaking of a client role in a two-party communication session. Turning to Fig. 1, the system processes comprises end user clients located at the end user premises equipment 1, a central VPN system server 2, and network edge located VPN system clients 3. Full lines indicate physical communication lines, whereas arrows indicate communicating ends, without specifying which route the communication takes between those communicating ends.

The end user client process preferably resides in a PC, the VPN client process preferably resides within a standalone hardware unit, and the VPN server process resides within any kind of server hardware unit, such as an IBM® server. By process is here meant the functionality for the particular client or server, as described herein. The VPN server 2 and the VPN client 3 are parts of a VPN system that provides the end user client 1 with access to required VPNs. The end user client 1 hardware is physically connected via a communication line 11 to the VPN client 3 hardware. The VPN client 3 hardware is physically connected to a layer-two termination that enables the VPN client 3 to access Internet over a communication

line 12. The layer-two protocol is preferably Ethernet but could practically be any known layer-two protocol used for the encapsulation and transport of IP (Internet Protocol) packets between IP nodes. The VPN server 2 is connected to Internet via a communication line 13 in the same way as the VPN client 3.

5 According to an embodiment of the target system the end user client 1 initiates a communication session with the VPN server 2 in order to acquire access to a virtual private network. During the initialisation phase, the VPN server 2 authenticates and authorises the end user client 1 as a registered user of VPN services that are provided by the VPN server 2. The VPN client 3 is passive in that it
10 does not initiate any new information elements during the initialisation phase. The VPN client 3 also monitors 22 the communication 21 between the end user client 1 and the VPN server 2.

When the initialisation phase between the end user client 1 and the VPN server 2 is finished, and when information has been exchanged, regarding particular VPN
15 that the end user clients request access to, then the VPN client 3 becomes active and takes over the communication session between the end user client 1 and the VPN client 3. The VPN client 3 now requests, if it is necessary because the VPN information can already be cached by the VPN client 3, VPN configuration data from the VPN server 2. The VPN client 3 uses the configuration data to configure
20 necessary VPN access parameters such as traffic classification parameters, performance assurance parameters, or firewall parameters such as encryption, authentication, filtering parameters, etc.

The end user client 1 is allowed to use different VPN servers 2 but cannot have simultaneous access to more than one VPN server 2. The VPN client 3 detects when
25 an end user client 1 tries to access a certain server 2. At this moment the VPN server 2 is considered insecure until the end user client 1 has authenticated the VPN server 2 and also have been authenticated by the VPN server 2.

The monitoring and session overtaking scenarios are described more in detail in Fig. 2. The VPN client 3 has one trusted domain, which is the end user client 1
30 side, and one distrusted domain, the Internet domain. From the VPN client's 3 point of view, the VPN server 2 is therefore located in the distrusted domain. Since all in- and outgoing IP traffic to/from the end user client passes through the VPN client 3 hardware, the VPN client 3 is able to monitor the communication 21 between the end user client 1 and the VPN server 2. This is true if, and only if, the IP traffic not
35 is encrypted in such a way that the VPN client 3 is unable to decrypt the IP traffic. The VPN client 3 software resides on hardware that physically interconnects the end user client 1 with Internet 4. The VPN client 3 is therefore able to monitor 22 all traffic 21 between the end user client 1 and different VPN servers 2 to whom the end user client 1 are registered as user.

The VPN client 3 identifies when the end user client 1 starts to establish contact with a VPN server 2. The VPN client 3 treats the end user client 1 side as a trusted party and the VPN server 2 as a distrusted party. The session establishment phase 21 between the end user client 1 and the VPN server 2 could be done in numerous ways, e.g. by a traditional challenge/response handshaking sequence. The communication 21 is primarily meant to be done by web based clients but other client/server process environment solutions are possible. When the handshaking sequence between the end user client 1 and the VPN server 2 has finished, the VPN client 3 takes over the communication session. The handshaking is considered finished when the VPN server 2 has authenticated and authorised the end user client 1, and acknowledged the end user client 1 as a confirmed user. The VPN client 3 will from now on undertake proxy roles towards both the end user client 1 and the VPN server 2. Towards the end user client 1, the VPN client 3 will act as a VPN server proxy, and towards the VPN server 2 as an end user client proxy. The end user client 1 will continue it's session in belief that it still communicates with the VPN server 2. The VPN client 3 will, using the VPN server proxy role, continue the VPN setup session with the end user client 1.

Further on, the VPN client 3 is now considering the VPN server 2 as a secure source and starts up communication sessions 23 with the VPN server 2 that enables the end user client 1 to be included as members in the requested VPN.

In one embodiment the target system is implemented in a service provisioning system, where parts of the service functionality are distributed to system clients acting as server proxies. One technical advantages of the present system is that any hacker intrusions via an end user PC 1 are avoided by having critical software/firmware for control and management of VPN configuration data separated on standalone hardware 3. Another advantage is the automated overtaking of certified sessions. Another benefit is the plug-and-play behaviour for virtual services over Internet, which is made available through the system. The teachings of the present system thus differs from prior art technology, since earlier solutions to the problem have either been centralised server solutions, such as PSTN/ISDN modem-pool solutions, server centralised IP Sec tunnelling etc, or distributed solutions, which are only valid within one network operator intra-domain or within federated network operator domains. These solutions are generally referred to as network based VPN systems. The present system will function independently of whether or not the different VPN client users access the same network operator domain or a federated network domain or have access to totally independent network operator domains.

An emulated multicast comprises one or preferably several broadcast servers connected to the emulated LAN. The connection between the LAN emulating client

LEC, herein also referred to as the VPN client, and the broadcast servers can be realised as tunnels or by other means. The broadcast servers can be configured dynamically by a LAN Emulating Server (LES) or in a static fashion via a management system.

5 In one embodiment of the present invention, illustrated in Fig. 3, the system comprises a distributed architecture of broadcast servers on an emulated LAN. The LAN is emulated on top of a standard IP network like the Internet. That is, the IP network acts as a backbone for the emulated LAN. In Fig. 3, pLAN stands for physical LAN, as opposed to a virtual LAN. PC indicates, in this embodiment, an
10 ordinary personal computer, but may just as well be some other type of data communication device. The emulated LAN is implemented on top of a standard global network, preferably an IP network, such as the Internet and functions to extend the physical LAN seen on the left hand side of Fig. 3 to other, and distant locations, such as the pLAN in the right hand side of Fig. 3, or the other PCs. The
15 emulated LAN comprises connections between the LAN Emulating Clients (LECs). A LEC is implemented as a separate physical unit and acts as a bridge between the pLAN and the emulated LAN node. A LAN Emulating Server (LES) performs the management of the emulated LAN and the connected LECs.

The Broadcast and Unknown Server (BUS) functionality could be
20 implemented in the LEC, as a separate unit connected to the IP network, and/or implemented in the LES. Different configurations are shown in Fig. 3. If the BUS is implemented in the LECs, the function lay dormant in most of the LECs and in function in some. Some, but not all of the LECs have a running BUS functionality. The choice of which LEC that has an up and running BUS is defined by the LES
25 and based on different performance criteria such as available bandwidth to the IP backbone and/or the number of units connected to the pLAN etc.

The BUSES are preferably arranged in a logical hierarchical architecture as shown in Fig. 4. By using a hierarchical or tree structure the efficiency is enhanced. The master and initial BUS, the LES BUS, is configured in the LES. By using
30 several BUSES the load on the system implementing the broadcast functionality will be shared. Further, the distributed architecture will give a load sharing on the links connecting the BUSES. As a consequence of the distributed architecture there is no single point of failure for the broadcast functionality. When a LEC connects to an emulated LAN the LEC receives information from the LES about the available
35 BUSES. The LES may at this stage configure the connecting LEC to start its BUS functionality. The connections between the LEC and the BUSES, forming the nodes of the emulated local area network, may be implemented as a multicast network or as single-cast addresses, i.e. tunnels, to each of the other LECs.

Each BUS will have an algorithm in order to exclude the possibility of a

"broadcast storm" where broadcast messages indefinitely are sent between the BUSES. The algorithm could be based on a checksum of the broadcast packet. This checksum will uniquely identify the broadcast packet and is cached by the BUS. If another broadcast packet arrives with the same checksum the packet will be dropped
5 and not forwarded. In an alternative embodiment another algorithm is used, based on a hop counter, similar the Time To Live (TTL) parameter used in IP networks. The counter will be decremented by each BUS. When the counter reaches zero the packet will be dropped and not forwarded.

The invention according to this description may hence be used in a VPN based
10 on an emulated LAN on top of IP network. The invention according to the description also differs from earlier known technology, since existing VPN solutions use a single broadcast server, and a technical advantage is that it enhances the scalability of VPN implementations.

15

Claims

1. System for emulating a local area network on top of a global communication network (4), the system comprising clients units (LEC) and a server (LES) which
5 are connected to said global network (4), and a broadcast functionality (BUS) for relaying messages to all clients in the emulated local area network, **characterised in** that said broadcast functionality is distributed and implemented in more than one network unit node in the emulated local area network.
- 10 2. The system as recited in claim 1, wherein the global network acts as a backbone for the emulated local area network.
3. The system as recited in claim 2, wherein a choice of which clients unit (LEC) has an up and running broadcast functionality unit (BUS) is defined by the server
15 (LES) and is based on predetermined performance criteria.
4. The system as recited in claim 1, wherein said distributed broadcast functionality (BUS) is hierarchically structured.
- 20 5. The system as recited in claim 4, wherein a master and initial broadcast functionality (LES BUS) unit is configured in said server (LES).
6. The system as recited in claim 1, wherein the connections between the nodes of the emulated local area network may be implemented as a multicast network
25 transmitted through the global network.
7. The system as recited in claim 1, wherein the connections between the nodes of the emulated local area network may be implemented as single-cast addresses, forming tunnels through said global network.
30
8. The system as recited in claim 1, wherein each network unit having a distributed broadcasting functionality (BUS) comprises means for executing an algorithm for preventing broadcast messages from being indefinitely sent between the network unit nodes having the distributed broadcasting functionality (BUS).
35
9. The system as recited in claim 8, wherein said algorithm is based on a checksum of the broadcast packet, which checksum uniquely identifies the broadcast packet and is cached by the broadcasting functionality (BUS) for the purpose of dropping subsequently arriving broadcast packets having the same checksum.

10. The system as recited in claim 8, wherein said algorithm is based on a hop counter which is decremented by each broadcasting functionality (BUS) unit upon arrival, said algorithm functioning to drop subsequent incoming packets when the
5 counter has reached zero.

11. The system as recited in any of the previous claims, wherein said global network is an Internet Protocol network.

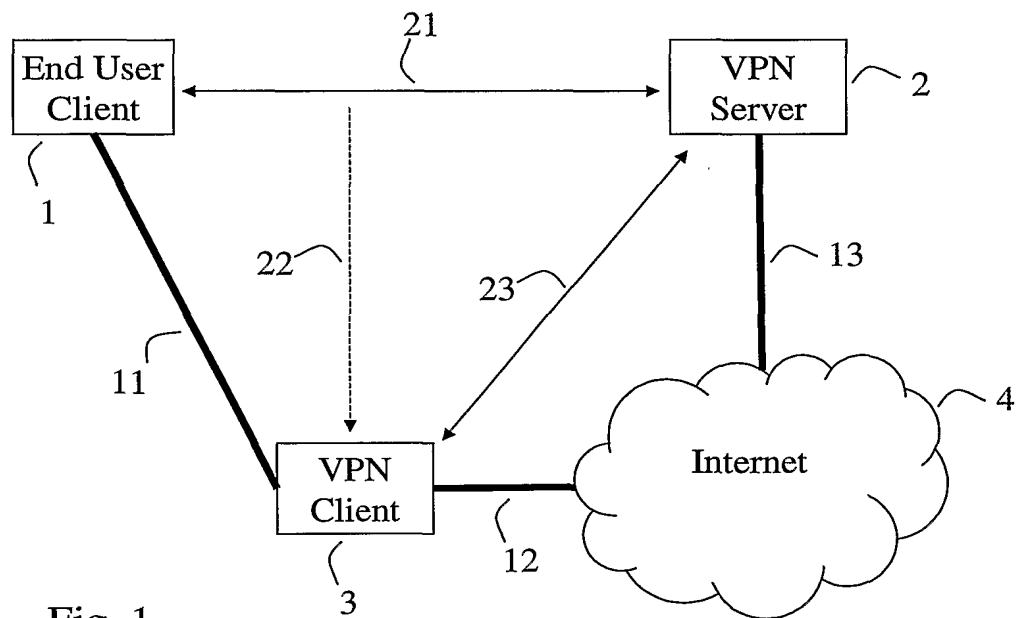


Fig. 1

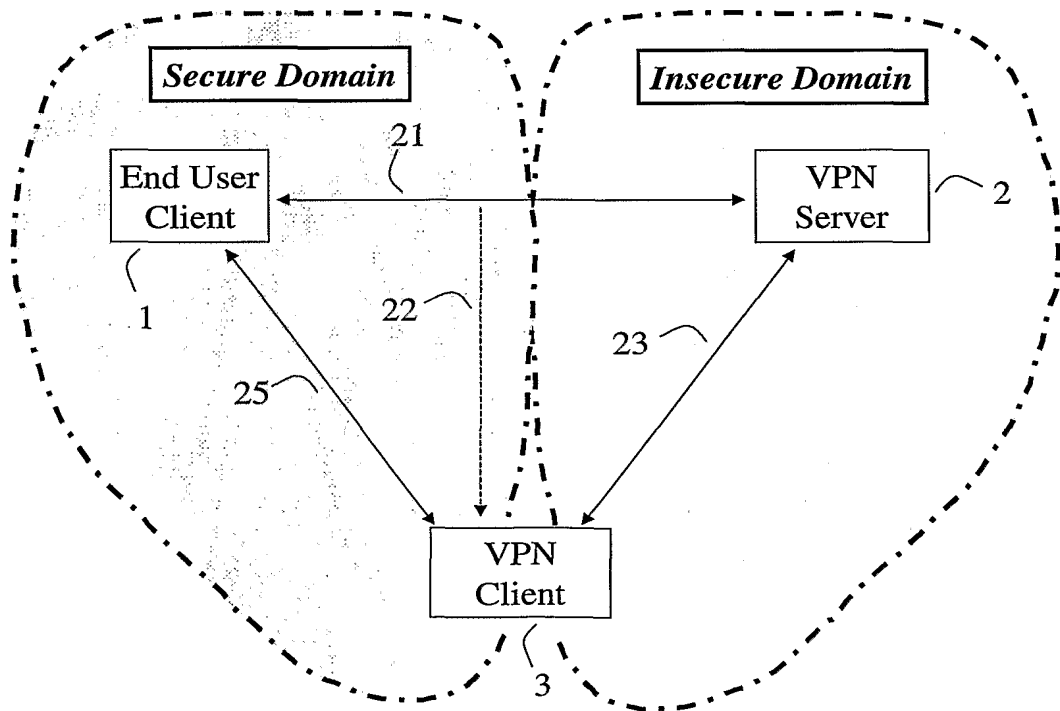


Fig. 2

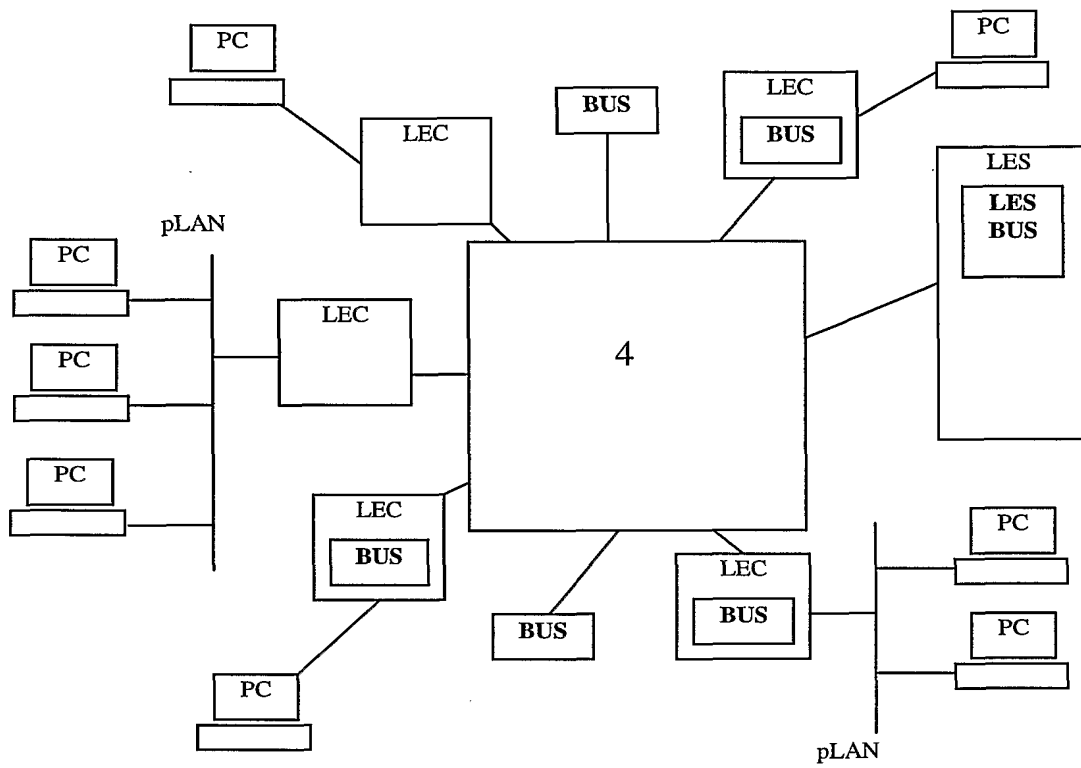


Fig. 3

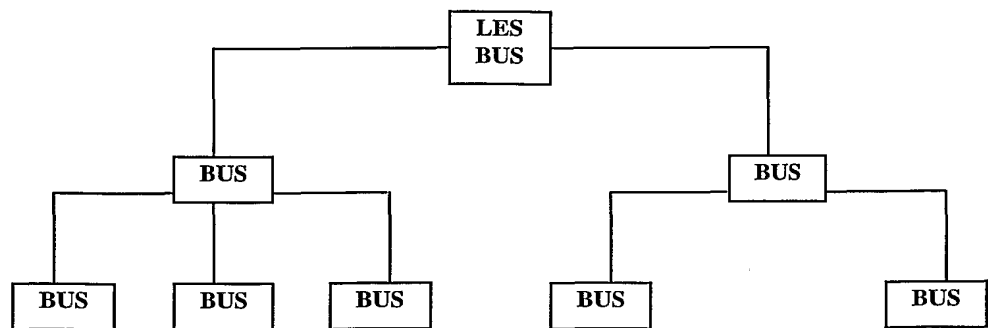


Fig. 4

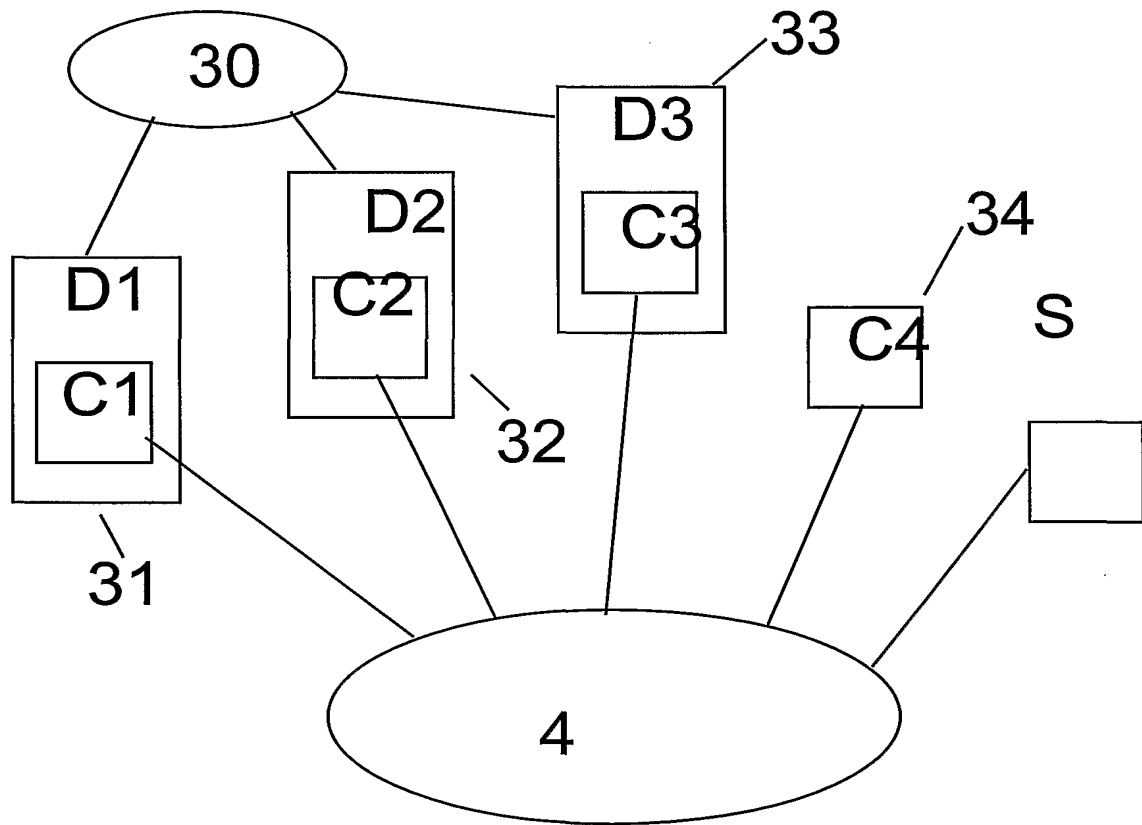


Fig 5

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 01/01473

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H04L 12/46

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5805805 A (CIVANLAR,S. ET AL), 8 Sept 1998 (08.09.98), column 3, line 54 - column 5, line 67, figure 3, abstract --	1,2,6-11
X	US 6041166 A (HART,J.H. ET AL), 21 March 2000 (21.03.00), column 2, line 64 - column 3, line 63; column 5, line 23 - line 27; column 10, line 47 - column 11, line 14, figures 4,10,11, abstract --	1,2,6-11
A	US 6047325 A (JAIN,L. ET AL), 4 April 2000 (04.04.00), column 3, line 23 - column 5, line 1, abstract -- -----	1-11

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/SE 01/01473

Patent document cited in search report			Publication date	Patent family member(s)		Publication date
US	5805805	A	08/09/98	NONE		

US	6041166	A	21/03/00	AU	3728497 A	09/02/98
				GB	2330285 A,B	14/04/99
				GB	9900960 D	00/00/00
				US	6269404 B	31/07/01
				WO	9802821 A	22/01/98
				AU	6544796 A	18/02/97
				GB	2317543 A,B	25/03/98
				GB	9800046 D	00/00/00
				US	5752003 A	12/05/98
				WO	9704386 A	06/02/97

US	6047325	A	04/04/00	NONE		

Electronic Patent Application Fee Transmittal

Application Number:	12646892			
Filing Date:	23-Dec-2009			
Title of Invention:	Media Based Collaboration Using Mixed-Mode PSTN and Internet Networks			
First Named Inventor/Applicant Name:	Thomas A. Dye			
Filer:	Michael A. Kerr/Julie Dawes			
Attorney Docket Number:	MEET 09.01			
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
Total in USD (\$)				180

Electronic Acknowledgement Receipt

EFS ID:	12700801
Application Number:	12646892
International Application Number:	
Confirmation Number:	1932
Title of Invention:	Media Based Collaboration Using Mixed-Mode PSTN and Internet Networks
First Named Inventor/Applicant Name:	Thomas A. Dye
Customer Number:	48008
Filer:	Michael A. Kerr/Julie Dawes
Filer Authorized By:	Michael A. Kerr
Attorney Docket Number:	MEET 09.01
Receipt Date:	03-MAY-2012
Filing Date:	23-DEC-2009
Time Stamp:	18:53:44
Application Type:	Utility under 35 USC 111(a)

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Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 180
RAM confirmation Number	6073
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part App	Pages (If appld.)
			Zohu Corp and Zohu Corp		Part 1 of 10

1	Information Disclosure Statement (IDS) Form (SB08)	updated_IDS.pdf	613067 8f525ef4f61cf760fd46c764b3a53474a72ae75b	no	5
Warnings:					
Information:					
2	Non Patent Literature	higgins.pdf	389106 db91e2d366633eacdd9ef008cf14cd53fdef34d5	no	5
Warnings:					
Information:					
3	Non Patent Literature	pct_search.pdf	149079 c22bc40236d3445274c4df2ad24a5b060e5a7f74	no	4
Warnings:					
Information:					
4	Foreign Reference	wo03003665.pdf	951508 98bbe4199196bd40d51c32b9007f660f288ede2d	no	18
Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	30292 a9785c7684d6b9783643ec0f7189e44d7af0df15	no	2
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Total Files Size (in bytes):			2133052		
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.					



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/646,892	12/23/2009	Thomas A. Dye	MEET 09.01	1932
48008	7590	02/03/2012	EXAMINER	
KERR IP GROUP, LLC			NI, SUHAN	
MICHAEL A. KERR				
P.O. Box 18600			ART UNIT	PAPER NUMBER
RENO, NV 89511			2614	
			NOTIFICATION DATE	DELIVERY MODE
			02/03/2012	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):

MICK@KIPG.COM
mmk@kipg.com
admin@kipg.com

Office Action Summary	Application No.	Applicant(s)	
	12/646,892	DYE ET AL.	
	Examiner	Art Unit	
	SUHAN NI	2614	

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

Period for Reply

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

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

Status

- 1) ☒ Responsive to communication(s) filed on 19 January 2010.
- 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 and 2 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 and 2 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 12) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

- | | |
|--|---|
| 1) ☐ Notice of References Cited (PTO-892) | 4) ☐ Interview Summary (PTO-413) |
| 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) ☒ Information Disclosure Statement(s) (PTO/SB/08) | 5) ☐ Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____. | 6) ☐ Other: ____. |

Art Unit: 2614

DETAILED ACTION

1. The Art Unit location of your application in the PTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Group Art Unit **2614**.
2. This communication is responsive to the preliminary amendment filed 01/19/2010.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. 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).

Art Unit: 2614

3. Claims 1-2 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-8 of U.S. Patent No. 7,664,056. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1-8 of U.S. Patent No. 7,664,056 are similar in scope to the rejected claim 1-2 of the U. S. Pat. App (No. 12/646,892) with obvious wording variations.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Suhan Ni** whose telephone number is **(571)-272-7505**, and the number for fax machine is **(571)-273-7505**. The examiner can normally be reached on Tuesday and Thursday from 10:00 am to 8:00 pm, and may be reached on Monday, Wednesday and Friday from 10:00 am to 8:00 pm. If it is necessary, the examiner's supervisor, **Curtis A. Kuntz**, can be reached at **(571)-272-7499**.

6. 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).

Art Unit: 2614

7. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is **(571)-272-2600**, or please see <http://www.uspto.gov/web/info/2600>.

/Suhan Ni/
Primary Examiner, Art Unit 2614

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12646892
	Filing Date		2009-12-23
	First Named Inventor	Thomas A. Dye et al.	
	Art Unit	1932	
	Examiner Name		
	Attorney Docket Number	MEETRIX 09.001	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/SN/	1	6751477	B1	2004-06-15	Alperovich et al.	

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS						
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/SN/	1	20030137976	A1	2003-06-24	Zhu et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS								
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1							☐

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	12646892
Filing Date	2009-12-23
First Named Inventor	Thomas A. Dye et al.
Art Unit	1932
Examiner Name	
Attorney Docket Number	MEETRIX 09.001

1		☐
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If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature	/Suhan Ni/	Date Considered	01/29/2012
--------------------	------------	-----------------	------------

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

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

Search Notes 	Application/Control No. 12646892	Applicant(s)/Patent Under Reexamination DYE ET AL.
	Examiner SUHAN NI	Art Unit 2614

SEARCHED			
Class	Subclass	Date	Examiner
370	260-263, 265, 352-356,	01/29/2012	SN

SEARCH NOTES		
Search Notes	Date	Examiner
East	01/29/2012	SN

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

	/SUHAN NI/ Primary Examiner.Art Unit 2614
--	--

<i>Index of Claims</i> 	Application/Control No. 12646892	Applicant(s)/Patent Under Reexamination DYE ET AL.
	Examiner SUHAN NI	Art Unit 2614

✓	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	01/29/2012							
	1	✓							
	2	✓							



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
12/646,892	12/23/2009	Thomas A. Dye	MEET 09.01

CONFIRMATION NO. 1932

PUBLICATION NOTICE



OC000000046167070

48008
KERR IP GROUP, LLC
MICHAEL A. KERR
P.O. Box 18600
RENO, NV 89511

Title:Media Based Collaboration Using Mixed-Mode PSTN and Internet Networks

Publication No.US-2011-0043601-A1

Publication Date:02/24/2011

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
12/646,892		Thomas A. Dye	MEET 09.01

CONFIRMATION NO. 1932

WITHDRAWAL NOTICE



48008
KERR IP GROUP, LLC
MICHAEL A. KERR
P.O. Box 18600
RENO, NV 89511

Date Mailed: 11/17/2010

Letter Regarding a New Notice and/or the Status of the Application

If a new notice or Filing Receipt is enclosed, applicant may disregard the previous notice mailed on 09/30/2010. The time period for reply runs from the mail date of the new notice. Within the time period for reply, applicant is required to file a reply in compliance with the requirements set forth in the new notice to avoid abandonment of the application.

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.
<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at
1-866-217-9197 or visit our website at <http://www.uspto.gov/ebc>.

If the reply is not filed electronically via EFS-Web, the reply must be accompanied by a copy of the new notice.

If the Office previously granted a petition to withdraw the holding of abandonment or a petition to revive under 37 CFR 1.137, the status of the application has been returned to pending status.

/hsarwari/

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



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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
12/646,892	12/23/2009	2447	527	MEET 09.01	2	1

CONFIRMATION NO. 1932

UPDATED FILING RECEIPT



48008
KERR IP GROUP, LLC
MICHAEL A. KERR
P.O. Box 18600
RENO, NV 89511

Date Mailed: 11/17/2010

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Applicant(s)

Thomas A. Dye, Austin, TX;
Thomas A. Dundon, Austin, TX;

Assignment For Published Patent Application

MEETRIX CORPORATION, Santa Monica, CA

Power of Attorney:

Noel Kivlin--33929 Mark Williams--50658
Eric Meyertons--34876
Jeffrey Hood--35198
Robert Kowert--39255
Mark Brightwell--47446

Domestic Priority data as claimed by applicant

This application is a CON of 10/796,560 03/09/2004 PAT 7,664,056
which claims benefit of 60/453,307 03/10/2003

Foreign Applications

If Required, Foreign Filing License Granted: 01/12/2010

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 12/646,892**

Projected Publication Date: 02/24/2011

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

Media Based Collaboration Using Mixed-Mode PSTN and Internet Networks

Preliminary Class

709

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 (1-866-999-4158).

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).



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United States Patent and Trademark Office
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MAILED

NOV 08 2010

OFFICE OF PETITIONS

**KERR IP GROUP, LLC
MICHAEL A. KERR
P.O. Box 18600
RENO NV 89511**

In re Application of	:	
Thomas A. Dye et al.	:	
Application No. 12/646,892	:	DECISION ON PETITION
Filed: December 23, 2009	:	
Attorney Docket No. MEET 09.01	:	

This is a decision on the petition under the unintentional provisions of 37 CFR 1.137(b), filed September 30, 2010, to revive the above-identified application.

The petition is **GRANTED**.

The application became abandoned for failure to reply in a timely manner to the Notice to File Missing Parts of Non-Provisional Application (Notice), mailed January 14, 2010. The Notice set a period for reply of two (2) months from the mail date of the Notice. No extensions of time under the provisions of 37 CFR 1.136(a) was obtained. Accordingly, the application became abandoned on March 15, 2010. A Notice of Abandonment was mailed September 30, 2010.

The petition satisfies the requirements of 37 CFR 1.137(b) in that petitioner has supplied (1) the reply in the form of an examination fee of \$110, a search fee of \$270, a basic filing fee of \$82, and a surcharge fee of \$65 (2) the petition fee of \$810, and (3) a proper statement of unintentional delay. Accordingly the fees are accepted as being unintentionally delayed.

Telephone inquiries regarding this decision should be directed to the Kimberly Inabinet at (571) 272-4618.

This application is being referred to the Office of Patent Application Processing for appropriate action in the normal course of business on the reply received September 30, 2010. Inquires regarding the status of the application should be directed to 571-272-4000.

/Kimberly Inabinet/

Kimberly Inabinet
Petitions Examiner
Office of Petitions



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
12/646,892	12/23/2009	Thomas A. Dye	MEET 09.01

CONFIRMATION NO. 1932

ABANDONMENT/TERMINATION
LETTER



48008
KERR IP GROUP, LLC
MICHAEL A. KERR
P.O. Box 18600
RENO, NV 89511

Date Mailed: 09/30/2010

NOTICE OF ABANDONMENT UNDER 37 CFR 1.53 (f) OR (g)

The above-identified application is abandoned for failure to timely or properly reply to the Notice to File Missing Parts (Notice) mailed on 01/14/2010.

- No reply was received.

If a complete reply to the notice was previously filed by applicant within the time period set forth in the notice, applicant may request for reconsideration of the holding of abandonment within 2 months from the mailing of this notice of abandonment by filing a petition to withdraw the holding of abandonment under 37 CFR 1.181(a). No petition fee is required. The petition must be accompanied by a true copy of the originally filed reply and the item(s) identified in one of the following:

1. A properly itemized date-stamped postcard receipt (see MPEP § 503);
2. If the originally filed reply included a certificate of mailing or transmission in compliance with 37 CFR 1.8(a), a copy of the certificate of mailing or transmission and a statement in compliance with 37 CFR 1.8(b) (see MPEP § 512); or
3. If the reply was filed via "Express Mail," a submission satisfying the requirements of 37 CFR 1.10(e) including, for example, a copy of the "Express Mail" mailing label showing the "date-in" (see MPEP § 513).

Any petition to withdraw the holding of abandonment should be directed to OPAP.

If applicant did not previously file a complete reply within the time period set forth in the notice, applicant may file a petition to revive the application under 37 CFR 1.137.

Under 37 CFR 1.137(a), a petition requesting the application be revived on the grounds of **UNAVOIDABLE DELAY** must be filed promptly after the applicant becomes aware of the abandonment and such petition must be accompanied by: (1) an adequate showing of the cause of unavoidable delay; (2) the required reply to the above-identified Notice; (3) the petition fee set forth in 37 CFR 1.17(l); and (4) a terminal disclaimer if required by 37 CFR 1.137(d). See MPEP § 711.03(c) and Form PTO/SB/61.

Under 37 CFR 1.137(b), a petition requesting the application be revived on the grounds of **UNINTENTIONAL DELAY** must be filed promptly after applicant becomes aware of the abandonment and such petition must be accompanied by: (1) a statement that the entire delay was unintentional; (2) the required reply to the above-identified Notice; (3) the petition fee set forth in 37 CFR 1.17(m); and (4) a terminal disclaimer if required by 37 CFR 1.137(d). See MPEP § 711.03(c) and Form PTO/SB/64.

Any questions concerning petitions to revive should be directed to the "Office of Petitions" at (571) 272-3282.

A copy of this notice MUST be returned with the reply.

/mbeyene/

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): **Thomas A. Dye et al.**

Group Art Unit: **2447**

Application Serial No.: **12/646,892**

Examiner name: **TBD**

Filed: **December 23, 2009**

Confirmation No: **1932**

Title: **MEDIA BASED
COLLABORATION USING
MIXED-MODE PSTN AND
INTERNET NETWORKS**

**RESPONSE TO NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL
APPLICATION**

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

Dear Sir/Madam:

Applicant hereby files this Response to the Notice to File Missing Parts of Nonprovisional Application issued by the United States Patent and Trademark Office ("USPTO") on January 14, 2010. This Response includes additional fees totaling \$1337 for a small entity.

Remarks begin on page 2.

Remarks

On January 14, 2010, the United States Patent and Trademark office issued a Notice to File Missing Parts of Nonprovisional Patent Application, requiring the payment of \$527 in patent filing fees. This application became abandoned due to a failure to file a timely reply to the Notice to File Missing Parts of Nonprovisional Application mailed by the United States Patent and Trademark Office ("USPTO") on January 14, 2010. The failure to timely file a response to the notice to file missing parts was unintentional.

In response to the notice, applicant files herewith a Petition for Revival of an Application for Patent Abandoned Unintentionally Under 37 CFR 1.137(b), as well as fees totaling \$1,337 for \$82 statutory basic filing fee, \$65 surcharge, \$270 search fee, and \$110 examination fee, petition, and fees for petition to revive of \$810.

Respectfully Submitted;

Dated: September 30, 2010

/Michael A. Kerr
Michael A. Kerr
Reg. No. 42,722

Michael A. Kerr
KERR IP GROUP, LLC
P.O. Box 18600
Reno, NV 89511
Tel: (775) 624-8700
Fax: (775) 622-0686

Electronic Patent Application Fee Transmittal

Application Number:	12646892			
Filing Date:	23-Dec-2009			
Title of Invention:	Media Based Collaboration Using Mixed-Mode PSTN and Internet Networks			
First Named Inventor/Applicant Name:	Thomas A. Dye			
Filer:	Michael A. Kerr/Alayna Dryden			
Attorney Docket Number:	MEET 09.01			
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	82	82
Utility Search Fee	2111	1	270	270
Utility Examination Fee	2311	1	110	110
Pages:				
Claims:				
Miscellaneous-Filing:				
Late filing fee for oath or declaration	2051	1	65	65
Petition:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Petition-revive unintention. abandoned appl	2453	1	810	810
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1337

Electronic Acknowledgement Receipt

EFS ID:	8538244
Application Number:	12646892
International Application Number:	
Confirmation Number:	1932
Title of Invention:	Media Based Collaboration Using Mixed-Mode PSTN and Internet Networks
First Named Inventor/Applicant Name:	Thomas A. Dye
Customer Number:	48008
Filer:	Michael A. Kerr/Alayna Dryden
Filer Authorized By:	Michael A. Kerr
Attorney Docket Number:	MEET 09.01
Receipt Date:	30-SEP-2010
Filing Date:	23-DEC-2009
Time Stamp:	17:27:46
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$1337
RAM confirmation Number	7713
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part App	Pages (If appld.)
		Zohu Corp. and Zohu Corp.			

1	Miscellaneous Incoming Letter	petitiontorevive.pdf	211498 c5f52711f0fae11ce1044de561b22d19be67699	no	3
Warnings:					
Information:					
2	Miscellaneous Incoming Letter	abandonmentnotice.pdf	67074 eae3995baf69279d3f17c4642db5c56b571e0cd4	no	2
Warnings:					
Information:					
3	Applicant Response to Pre-Exam Formalities Notice	response.pdf	390729 08e04bd0028ba5abb133dc4f17a7a06f420dfc97	no	2
Warnings:					
Information:					
4	Fee Worksheet (PTO-875)	fee-info.pdf	38543 ea6c93a06f868cb04f4813985594ea770562e08e	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			707844		
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.					

**PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT
ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(b)**Docket Number (Optional)
MEET 09.001First named inventor: Thomas A. DyeApplication No.: 12/646,892Art Unit: 2447Filed: December 23, 2009Examiner: TBDTitle: MEDIA BASED COLLABORATION USING MIXED-MODE PSTN AND INTERNET NETWORKS

Attention: Office of Petitions

Mail Stop Petition

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

FAX (571) 273-8300

NOTE: If information or assistance is needed in completing this form, please contact Petitions Information at (571) 272-3282.

The above-identified application became abandoned for failure to file a timely and proper reply to a notice or action by the United States Patent and Trademark Office. The date of abandonment is the day after the expiration date of the period set for reply in the office notice or action plus any extensions of time actually obtained.

APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION

NOTE: A grantable petition requires the following items:

- (1) Petition fee;
- (2) Reply and/or issue fee;
- (3) Terminal disclaimer with disclaimer fee - required for all utility and plant applications filed before June 8, 1995; and for all design applications; and
- (4) Statement that the entire delay was unintentional

1. Petition Fee☒ Small entity-fee \$ 810 (37 CFR 1.17(m)). Application claims small entity status. See 37 CFR 1.27.☐ Other than small entity-fee \$ _____ (37 CFR 1.17(m))**2. Reply and/or fee**A. The reply and/or fee to the above-noted Office action in the form of amendment (identify type of reply):☐ has been filed previously on _____☒ is enclosed herewith.

B. The issue fee and publication fee (if applicable) of \$ _____

☐ has been paid previously on _____☐ is enclosed herewith.

[Page 1 of 2]

This collection of information is required by 37 CFR 1.137(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 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop Petition, 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.

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

3. Terminal disclaimer with disclaimer fee

- ☒ Since this utility/plant application was filed on or after June 8, 1995, no terminal disclaimer is required.
- ☐ A terminal disclaimer (and disclaimer fee (37 CFR 1.20(d)) of \$ _____ for a small entity or \$ _____ for other than a small entity) disclaiming the required period of time is enclosed herewith (see PTO/SB/63).

4. STATEMENT: The entire delay in filing the required reply from the due date for the required reply until the filing of a grantable petition under 37 CFR 1.137(b) was unintentional. [NOTE: The United States Patent and Trademark Office may require additional information if there is a question as to whether either the abandonment or the delay in filing a petition under 37 CFR 1.137(b) was unintentional (MPEP 711.03(c), subsections (III)(C) and (D)).]

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.



Signature
Michael A. Kerr

Type or Printed name
PO Box 18600

Address
Reno, NV 89511

Address

September 30, 2010

Date
42,722

Registration Number, If applicable
(775)624-8700

Telephone Number

Enclosures:

- ☒ Fee Payment
- ☒ Reply
- ☐ Terminal Disclaimer Form
- ☒ Additional sheets containing statements establishing unintentional delay
- ☐ Other: _____

CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR 1.8(a)]

I hereby certify that this correspondence is being:

- ☐ Deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Petition, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.
- ☒ Transmitted by ^{efs-web} ~~facsimile~~ on the date shown below to the United States Patent and Trademark Office at (571) 273-8300.

September 30, 2010

Date



Signature

Alayna Dryden

Typed or printed name of person signing certificate

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 the Freedom of Information Act requires disclosure of these records.
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 inspections 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.



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
12/646,892	12/23/2009	Thomas A. Dye	MEET 09.01

CONFIRMATION NO. 1932

ABANDONMENT/TERMINATION
LETTER



48008
KERR IP GROUP, LLC
MICHAEL A. KERR
P.O. Box 18600
RENO, NV 89511

Date Mailed: 09/30/2010

NOTICE OF ABANDONMENT UNDER 37 CFR 1.53 (f) OR (g)

The above-identified application is abandoned for failure to timely or properly reply to the Notice to File Missing Parts (Notice) mailed on 01/14/2010.

- No reply was received.

If a complete reply to the notice was previously filed by applicant within the time period set forth in the notice, applicant may request for reconsideration of the holding of abandonment within 2 months from the mailing of this notice of abandonment by filing a petition to withdraw the holding of abandonment under 37 CFR 1.181(a). No petition fee is required. The petition must be accompanied by a true copy of the originally filed reply and the item(s) identified in one of the following:

1. A properly itemized date-stamped postcard receipt (see MPEP § 503);
2. If the originally filed reply included a certificate of mailing or transmission in compliance with 37 CFR 1.8(a), a copy of the certificate of mailing or transmission and a statement in compliance with 37 CFR 1.8(b) (see MPEP § 512); or
3. If the reply was filed via "Express Mail," a submission satisfying the requirements of 37 CFR 1.10(e) including, for example, a copy of the "Express Mail" mailing label showing the "date-in" (see MPEP § 513).

Any petition to withdraw the holding of abandonment should be directed to OPAP.

If applicant did not previously file a complete reply within the time period set forth in the notice, applicant may file a petition to revive the application under 37 CFR 1.137.

Under 37 CFR 1.137(a), a petition requesting the application be revived on the grounds of **UNAVOIDABLE DELAY** must be filed promptly after the applicant becomes aware of the abandonment and such petition must be accompanied by: (1) an adequate showing of the cause of unavoidable delay; (2) the required reply to the above-identified Notice; (3) the petition fee set forth in 37 CFR 1.17(l); and (4) a terminal disclaimer if required by 37 CFR 1.137(d). See MPEP § 711.03(c) and Form PTO/SB/61.

Under 37 CFR 1.137(b), a petition requesting the application be revived on the grounds of **UNINTENTIONAL DELAY** must be filed promptly after applicant becomes aware of the abandonment and such petition must be accompanied by: (1) a statement that the entire delay was unintentional; (2) the required reply to the above-identified Notice; (3) the petition fee set forth in 37 CFR 1.17(m); and (4) a terminal disclaimer if required by 37 CFR 1.137(d). See MPEP § 711.03(c) and Form PTO/SB/64.

Any questions concerning petitions to revive should be directed to the "Office of Petitions" at (571) 272-3282.

A copy of this notice MUST be returned with the reply.

/mbeyene/

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
12/646,892	12/23/2009	Thomas A. Dye	MEET 09.01

48008
KERR IP GROUP, LLC
MICHAEL A. KERR
P.O. Box 18600
RENO, NV 89511

CONFIRMATION NO. 1932
IMPROPER CPOA LETTER



Date Mailed: 09/16/2010

NOTICE REGARDING POWER OF ATTORNEY

This is in response to the Power of Attorney filed 01/19/2010. The Power of Attorney in this application is not accepted for the reason(s) listed below:

- The revocation is not signed by the applicant, the assignee of the entire interest, or one particular principal attorney having the authority to revoke.

/jltippett/

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Thomas A. Dye et al.	Group Art Unit: 2447
Application Serial No.: 12/646,892	Examiner: TBD
Filed: December 23, 2009	Conf. No.: 1932
Title: MEDIA BASED COLLABORATION USING MIXED-MODE PSTN AND INTERNET NETWORKS	

PRELIMINARY AMENDMENT**Mail Stop Amendment**

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

Dear Sir/Madam:

This Preliminary Amendment is filed to include cross-references in the first paragraph of the Specification and to amend the claims. No new matter has been added. Acceptance and entry of this Amendment is respectfully requested.

Amended Specification begins on Page 2.

Amended Claims begin on Page 3.

Remarks begin on Page 5.

Amended Specification:

Please replace the first paragraph of the Specification with the following:

Priority Claim

This application is a continuation of U.S. patent application Serial No. 10/796,560 titled "THE METHOD AND PROCESS FOR MEDIA BASED COLLABORATION USING MIXED-MODE PSTN AND INTERNET NETWORKS" filed March 9, 2004, whose inventors are Thomas Dye and Thomas A. Dundon; which claims benefit of priority of U.S. provisional application Serial No. 60/453,307 titled "THE METHOD AND PROCESS FOR MEDIA BASED COLLABORATION USING MIXED-MODE PSTN AND INTERNET NETWORKS" filed March 10, 2003, whose inventors are Thomas A. Dye and [[Tom]] Thomas A. Dundon which is hereby incorporated by reference in its entirety.

Amendments to the Claims:

This listing of the claims replaces the listings of the claims in the present patent application. Please cancel claims 1, 5-8 and 12-14 and add new claims 15 and 16.

Listing of Claims:

1., 5.-8. and 12.-14. (Cancelled)

15. (New) A method for adding a telephone participant to a multi-participant audio-video conference comprising:

Sending a first message to each of a plurality of multicast appliances over the Internet, wherein the first message comprises a group address which identifies the participants;

each of the multicast appliances receiving the first message;

establishing a plurality of virtual private networks across the Internet routes between the multicast appliances;

one or more of the participants communicating in the multi-participant video conferences;

the telephone participant joining the multi-participant video conference, wherein said joining comprises:

the telephone participant calling into a gateway server;

the telephone participant providing conference ID information;

the PSTN gateway server establishing communication with a conferencing server;

authenticating the telephone participant; and

transmitting multicast group information to the gateway server; wherein the gateway server is operable to use the multicast group information to enable the telephone participant to participate in the multi-participant video conference.

16. (New) The method of claim 15, wherein the telephone participant participating in the multi-participant video conference comprises:

- the telephone participant speaking in the video conference;
- generating digital voice data in response to the telephone participant speaking;
- the gateway transforming the digital voice data into IP packets;
- configuring the IP packet with a group address according to a multicast protocol to create a multicast IP packet;
- encapsulating the multicast IP packet as a unicast packet;
- transmitting the unicast packet over the virtual private networks across the Internet between one or more appliances;
- one or more of the appliances determining the multicast data from the unicast packet; and
- the appliances providing the multicast data to each of the other participants in the group address.

Remarks:

Applicant respectfully requests that this Preliminary Amendment be accepted, and that the Amendments to the Specification and Claims be entered.

Respectfully Submitted,

Dated: JAN. 18, 2009


Michael A. Kerr
Reg. No. 42,722

Michael A. Kerr
KERR IP GROUP, LLC
9490 Gateway Drive, #104
Reno, NV 90521
Tel: (775) 624-8700
Fax: (775) 622-0686

Electronic Acknowledgement Receipt

EFS ID:	6835494
Application Number:	12646892
International Application Number:	
Confirmation Number:	1932
Title of Invention:	Media Based Collaboration Using Mixed-Mode PSTN and Internet Networks
First Named Inventor/Applicant Name:	Thomas A. Dye
Customer Number:	48008
Filer:	Michael A. Kerr/Teri Muir
Filer Authorized By:	Michael A. Kerr
Attorney Docket Number:	MEET 09.01
Receipt Date:	19-JAN-2010
Filing Date:	23-DEC-2009
Time Stamp:	17:02:56
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Corrected Filing Receipt	RequestA_to_Correct_Filing_Receipt.pdf	27641 9839288015b6409a3bae4b7a4b6f2f1c07336cbb	no	1

Warnings:

Information:

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

Exhibit 1005 – 137

2	Information Disclosure Statement (IDS) Filed (SB/08)	IDS.pdf	126316 9bc708109c77b728f4749f7002ab0a926dc b1d67	no	3
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
3		Preliminary_Amendment.pdf	115015 f5e6ebfde4f35ec1ba3138c4a363b472af40 a920	yes	5
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Preliminary Amendment		1	1	
	Specification		2	2	
	Claims		3	4	
	Applicant Arguments/Remarks Made in an Amendment		5	5	
Warnings:					
Information:					
Total Files Size (in bytes):			268972		
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

Applicant(s): Thomas A. Dye et al.	Group Art Unit: 2447
Application Serial No.: 12/646,892	Examiner: To be assigned
Filed: December 23, 2009	Conf. No.: 1932
Title: MEDIA BASED COLLABORATION USING MIXED-MODE PSTN AND INTERNET NETWORKS	

REQUEST TO CORRECT FILING RECEIPT**Mail Stop AIU**

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

Dear Sir/Madam:

Applicant request corrections of the filing receipt. Due to clerical error from the U.S. Patent Office, we ask that the Power of Attorney be removed from the filing receipt.

Meyertons Hood Kivilin Kowert & Goetzel PC is no longer the Attorney's of Record for this matter.

Respectfully Submitted,

Dated: JAN 15, 2009

Michael A. Kerr
KERR IP GROUP, LLC
9490 Gateway Drive, #104
Reno, NV 90521
Tel: (775) 624-8700
Fax: (775) 622-0686

Michael A. Kerr
Michael A. Kerr
Reg. No. 42,722

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12646892
	Filing Date		2009-12-23
	First Named Inventor	Thomas A. Dye et al.	
	Art Unit	1932	
	Examiner Name		
	Attorney Docket Number	MEETRIX 09.001	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6751477	B1	2004-06-15	Alperovich et al.	

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS						
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20030137976	A1	2003-06-24	Zhu et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS								
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1							☐

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	12646892
Filing Date	2009-12-23
First Named Inventor	Thomas A. Dye et al.
Art Unit	1932
Examiner Name	
Attorney Docket Number	MEETRIX 09.001

	1		☐
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If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

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

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12646892
	Filing Date		2009-12-23
	First Named Inventor	Thomas A. Dye et al.	
	Art Unit	1932	
	Examiner Name		
	Attorney Docket Number	MEETRIX 09.001	

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

- ☐ See attached certification statement.
- ☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- ☐ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Michael A. Kerr/	Date (YYYY-MM-DD)	2010-01-19
Name/Print	Michael A. Kerr	Registration Number	42,722

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour 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.**

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12646892
	Filing Date		2009-12-23
	First Named Inventor	Thomas A. Dye et al.	
	Art Unit	1932	
	Examiner Name		
	Attorney Docket Number	MEETRIX 09.001	

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

- ☐ See attached certification statement.
- ☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- ☐ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Michael A. Kerr/	Date (YYYY-MM-DD)	2010-01-19
Name/Print	Michael A. Kerr	Registration Number	42,722

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 12/646,892		Filing Date 12/23/2009		☐ To be Mailed	
APPLICATION AS FILED – PART I										
(Column 1)			(Column 2)		SMALL ENTITY ☒ OR			OTHER THAN SMALL ENTITY		
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	OR	RATE (\$)	FEE (\$)			
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A				
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A				
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A				
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X \$	=		X \$	=			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$	=		X \$	=			
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL				
APPLICATION AS AMENDED – PART II										
(Column 1)			(Column 2)		SMALL ENTITY OR			OTHER THAN SMALL ENTITY		
AMENDMENT	01/19/2010	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	* 2	Minus	** 11	= 0	X \$26 =	0	OR	X \$ =	
	Independent (37 CFR 1.16(h))	* 1	Minus	*** 3	= 0	X \$110 =	0	OR	X \$ =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
					TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE		
(Column 1)			(Column 2)		SMALL ENTITY OR			OTHER THAN SMALL ENTITY		
AMENDMENT	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)		
	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))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
					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 number found in the appropriate box in column 1.										

Legal Instrument Examiner:
/JAMILAH Z. HARRIS/

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

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
12/646,892	12/23/2009	Thomas A. Dye	MEETTRIX-09-001

CONFIRMATION NO. 1932

FORMALITIES LETTER



48008
KERR IP GROUP, LLC
MICHAEL A. KERR
59 DAMONTE RANCH PARKWAY SUITE B
BOX 370
RENO, NV 89521

Date Mailed: 01/14/2010

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.
Applicant must submit \$82 to complete the basic filing fee for a small entity.

The applicant needs to satisfy supplemental fees problems indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.16(f) of \$65 for a small entity in compliance with 37 CFR 1.27, must be submitted with the missing items identified in this notice.

SUMMARY OF FEES DUE:

Total additional fee(s) required for this application is \$527 for a small entity

- \$82 Statutory basic filing fee.
- \$65 Surcharge.
- The application search fee has not been paid. Applicant must submit \$270 to complete the search fee.
- The application examination fee has not been paid. Applicant must submit \$110 to complete the examination fee for a small entity in compliance with 37 CFR 1.27.

Replies should be mailed to:

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.
<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at <http://www.uspto.gov/ebc>.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

/ldvan/

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
12/646,892	12/23/2009	2447	0.00	MEETRIX-09-001	11	3

CONFIRMATION NO. 1932

48008

KERR IP GROUP, LLC

MICHAEL A. KERR

59 DAMONTE RANCH PARKWAY SUITE B

BOX 370

RENO, NV 89521

FILING RECEIPT



OC000000039609705

Date Mailed: 01/14/2010

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Applicant(s)

Thomas A. Dye, Austin, TX;

Thomas A. Dundon, Austin, TX;

Assignment For Published Patent Application

MEETRIX CORPORATION, Santa Monica, CA

Power of Attorney:

Noel Kivlin--33929

Mark Williams--50658

Eric Meyertons--34876

Jeffrey Hood--35198

Robert Kowert--39255

Mark Brightwell--47446

Domestic Priority data as claimed by applicant

This application is a CON of 10/796,560 03/09/2004

which claims benefit of 60/453,307 03/10/2003

Foreign Applications

If Required, Foreign Filing License Granted: 01/12/2010

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 12/646,892**

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

Media Based Collaboration Using Mixed-Mode PSTN and Internet Networks

Preliminary Class

709

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 (1-866-999-4158).

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NOT GRANTED

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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	MEETTRIX-09-001	
		Application Number		
Title of Invention	Media Based Collaboration Using Mixed-Mode 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.)
--------------------------	---

Applicant Information:

Remove					
Applicant 1					
Applicant Authority ☒ Inventor		☐ Legal Representative under 35 U.S.C. 117		☐ Party of Interest under 35 U.S.C. 118	
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Thomas	A.	Dye		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Austin	State/Province	TX	Country of Residence i	US
Citizenship under 37 CFR 1.41(b) i		US			
Mailing Address of Applicant:					
Address 1		6621 Candle Ridge Cove			
Address 2					
City	Austin	State/Province	TX		
Postal Code	78731	Country i	US		
Remove					
Applicant 2					
Applicant Authority ☒ Inventor		☐ Legal Representative under 35 U.S.C. 117		☐ Party of Interest under 35 U.S.C. 118	
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Thomas	A.	Dundon		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Austin	State/Province	TX	Country of Residence i	US
Citizenship under 37 CFR 1.41(b) i		US			
Mailing Address of Applicant:					
Address 1		3505 El Dorado Tr.			
Address 2					
City	Austin	State/Province	TX		
Postal Code	78739	Country i	US		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button. Add					

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).	
☐	An Address is being provided for the correspondence information of this application.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	MEETTRIX-09-001	
		Application Number		
Title of Invention	Media Based Collaboration Using Mixed-Mode PSTN and Internet Networks			
Customer Number	48008			
Email Address	mick@kipg.com		Add Email	Remove Email

Application Information:

Title of the Invention	Media Based Collaboration Using Mixed-Mode PSTN and Internet Networks			
Attorney Docket Number	MEETTRIX-09-001	Small Entity Status Claimed ☒		
Application Type	Nonprovisional			
Subject Matter	Utility			
Suggested Class (if any)		Sub Class (if any)		
Suggested Technology Center (if any)				
Total Number of Drawing Sheets (if any)		Suggested Figure for Publication (if any)		

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). Enter either 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	48008		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this 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(a)(2) or CFR 1.78(a)(4), and need not otherwise be made part of the specification.			
Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	10796560	2004-03-09
Prior Application Status		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
10796560	non provisional of	60453307	2003-03-10

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	MEETTRIX-09-001
		Application Number	
Title of Invention	Media Based Collaboration Using Mixed-Mode PSTN and Internet Networks		

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Add

Foreign Priority Information:

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. 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(a).

Remove

Application Number	Country ⁱ	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
			☐ Yes ☒ No

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Add

Assignee Information:

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

Assignee 1

Remove

If the Assignee is an Organization check here. ☒

Organization Name Meetrix Corporation

Mailing Address Information:

Address 1	2261 23rd Street, Suite 215		
Address 2			
City	Santa Monica	State/Province	Ca
Country ⁱ	US	Postal Code	90405
Phone Number		Fax Number	
Email Address			

Additional Assignee Data may be generated within this form by selecting the **Add** button.

Add

Signature:

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the form of the signature.

Signature	/MAK/		Date (YYYY-MM-DD)	2009-12-23	
First Name	Michael A.	Last Name	Kerr	Registration Number	42722

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	MEETTRIX-09-001
		Application Number	
Title of Invention	Media Based Collaboration Using Mixed-Mode PSTN and Internet Networks		

This collection of information is required by 37 CFR 1.76. 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 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet 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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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:

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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 inspections 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.

Priority Claim

This application claims benefit of priority of U.S. provisional application Serial No. 60/453,307 titled "THE METHOD AND PROCESS FOR MEDIA BASED COLLABORATION USING MIXED-MODE PSTN AND INTERNET NETWORKS" filed March 10, 2003, whose inventors are Thomas A. Dye and Tom Dundon which is hereby incorporated by reference in its entirety.

BACKGROUND OF THE INVENTION

Field of the Invention

The present invention relates to computer system architectures, 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.

Modern 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 3 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-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-point or call termination sites. Gateways 411 are used to the 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 211, a video CoDec 213 connected to the audio/video 452 451 input and output blocks. 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

The present invention comprises various embodiments which enable audio from standard and wireless telephones systems to be mixed with audio, video and collaboration data resident in IP networks in preparation for transport, preferably over a novel multicasting technique using virtual private networks. In one embodiment, audio data terminating or originating from the PSTN may be multiplexed into open or private IP networks for efficient transport to multiple local or remote client computers. This allows video and audio collaboration clients to talk with remote telephony devices during the process of Multiparty audio/video conferencing.

In an alternate embodiment, without video conferencing, the method may use public networks to transport a multicast enabled IP audio stream during multi-party audio conferencing without the need for a conventional audio bridge device. Audio data is transported in a hybrid network comprising the PSTN and IP network. In this embodiment, a local client initiates a call to the remote telephone or wireless telephony device from a local dial-out application located preferably on the clients' computer. Call set-up is initiated as a series of control packet data transfers to a Voice-over-IP (VoIP) server or PSTN gateway located at some predetermined Internet address on the world-wide-web. Control data packets are transported to the VoIP server via a secure multicast enabled virtual private network. The local client computer compresses the audio data prior to transport to the VoIP server. The VoIP Server uses standard ITU-T, H.323 or SIP audio telephony transport protocol on the primary network connection protocol in preparation for entry to the secondary PSTN. The H.323 or SIP call instantiation is a protocol completed by the VoIP server which requests further transport of the digitized audio stream through a gateway to the public PSTN. In this embodiment, the majority of the audio data in transport over virtual private tunnels is multicast enabled such that the final termination or origination points are geographically close to the local or remote client computers. Once the proprietary data packets are handed off to the VoIP server or remote PSTN gateway, the invention ensures that standard protocols such as H.323 or SIP are used to further process for audio call set-up, tear-down and transport as know by those knowledgeable in the art.

The H.323 or Session Initiation Protocol (SIP) are used for call set-up of the network connections between the Hybrid networks and the remote telephone(s) (PSTN). Once IP network to PSTN call connection is established, compressed digitized audio packet data is grouped into multicast packets and encapsulated for traversal through the open Internet. Transport between the remote PSTN client (Callee) and the Local (Caller) is accomplished with full duplex audio between all audio and video participants within the conference. In one embodiment, compression may be accomplished with a standard audio CoDec such as that specified in the ITU-T G.729 recommendation or with a proprietary audio CoDec as known in the art. Thus, audio data transcoders at the VoIP server may be used to match the expected audio decoders located at the PSTN gateways. The unique process compresses the "Callee" audio data at the local client computer prior to multicast transport to other remote clients and to the VoIP server. This process minimizes the transport bandwidth during the first mile connection to/from the Internet.

In one embodiment, the method for adding a telephone participant to a multi-participant video conference operates as follows. A first message is sent to each of a plurality of multicast appliances over the Internet, wherein the first message comprises a group address which identifies participants. Each of the multicast appliances receives the first message. A plurality of virtual private networks are then established across the Internet between the multicast appliances. As a result, one or more of the participants are able to communicate in the multi-participant video conference. The telephone participant then joins the multi-participant video conference wherein this comprises a first participant contacting the telephone participant; establishing a phone number with a VoIP server; the VoIP server communicating with a gateway to call the telephone participant; and the telephone participant participating in the multi-participant video conference.

In one embodiment, the telephone participant participates in the multi-participant video conference as follows: the telephone participant speaking in the video conference; generating digital voice data in response to the telephone participant speaking; transforming the digital voice data into IP packets; transmitting the IP packets containing the digital voice data to the first participant; at a computer system of the first participant, decoding the

IP packets containing the digital voice data to produce the digital voice data; mixing the digital voice data of the telephone participant with digital voice data of the first participant; and providing the mixed digital voice data of the telephone participant and the first participant to the other participants.

5 The method may further comprise: mixing the digital voice data of the first participant and the digital voice data of the other participants; and providing the mixed digital voice data of the first participant and the other participants to the telephone participant.

10 In another embodiment, the telephone participant participates in the multi-participant video conference as follows: the telephone participant speaking in the video conference; generating digital voice data in response to the telephone participant speaking; transforming the digital voice data into IP packets; configuring the IP packet with a group address according to a multicast protocol to create a multicast IP packet; encapsulating the multicast IP packet as a unicast packet; transmitting the unicast packet over the virtual
15 private networks across the Internet between one or more appliances; one or more of the appliances determining the multicast data from the unicast packet; and the appliances providing the multicast data to each of the other participants in the group address.

20

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
5 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;

10 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.

15

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 401 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 412 or wireless telephone 413 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 handsets 413 which again 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 407 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 449 – 451. 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 are used at the origination or termination points for audio, video or data (media data) to 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 carryout 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
5 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
10 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
15 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
20 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
25 407 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
30 409. 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
5 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
10 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
15 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
20 412 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
25 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
30 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 with 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 ITU 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 mixture 534 mixing the audio from the voice over IP decoder 524 for output to the conference applications 562 local audio encoder 520. The audio encoder 520 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 520 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. 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 fire-wall 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:

5 1. A method for adding a telephone participant to a multi-participant video conference, comprising:

 sending a first message to each of a plurality of multicast appliances over the Internet, wherein the first message comprises a group address which identifies participants;

10 each of the multicast appliances receiving the first message;

 establishing a plurality of virtual private networks across the Internet between the multicast appliances;

 wherein one or more of the participants are able to communicate in the multi-participant video conference;

15 the telephone participant joining the multi-participant video conference, wherein said joining comprises:

 a first participant contacting the telephone participant

 establishing a phone number with a voIP server;

20 the VoIP server communicating with a gateway to call the telephone participant;

 the telephone participant participating in the multi-participant video conference.

25 2. The method of claim 1, wherein the telephone participant participating in the multi-participant video conference comprises:

 the telephone participant speaking in the video conference;

 generating digital voice data in response to the telephone participant speaking;

 transforming the digital voice data into IP packets;

30 transmitting the IP packets containing the digital voice data to the first participant;

at a computer system of the first participant, decoding the IP packets containing the digital voice data to produce the digital voice data;

mixing the digital voice data of the telephone participant with digital voice data of the first participant;

5 providing the mixed digital voice data of the telephone participant and the first participant to the other participants.

3. The method of claim 2, further comprising:

10 mixing the digital voice data of the first participant and the digital voice data of the other participants;

providing the mixed digital voice data of the first participant and the other participants to the telephone participant

15 4. The method of claim 1, wherein the telephone participant participating in the multi-participant video conference comprises:

the telephone participant speaking in the video conference;

generating digital voice data in response to the telephone participant speaking;

transforming the digital voice data into IP packets;

20 configuring the IP packet with a group address according to a multicast protocol to create a multicast IP packet;

encapsulating the multicast IP packet as a unicast packet;

transmitting the unicast packet over the virtual private networks across the Internet between one or more appliances;

25 one or more of the appliances determining the multicast data from the unicast packet; and

the appliances providing the multicast data to each of the other participants in the group address.

30

5. The method of claim 1, further comprising:

one or more of the participants communicating in the multi-participant video conference, comprising:

5 configuring IP packets with digital media data and a group address according to a multicast protocol to create a multicast IP packet; and
encapsulating the multicast IP packet as a unicast packet and sending the unicast packet to each of the other participants in the group address.

6. The method of claim 5,

10 wherein said encapsulating comprises encrypting the multicast IP packet.

7. The method of claim 1, further comprising:

one or more of the participants communicating in the multi-participant video conference, comprising:

15 generating digital media data;
transforming the digital media data into IP packets;
configuring the IP packet with a group address according to a multicast protocol to create a multicast IP packet;
encapsulating the multicast IP packet as a unicast packet;
20 transmitting the unicast packet over the virtual private networks across the Internet between one or more appliances;
one or more of the appliances determining the multicast data from the unicast packet;
the appliances providing the multicast data to each of the other participants
25 in the group address;
presenting the digital media data to the other participants in the video conference.

8. The method of claim 7,

30 wherein said encapsulating comprises encrypting the multicast IP packet.

9. A method for adding a telephone participant to a multi-participant audio-video conference, comprising:

5 sending a first message to each of a plurality of multicast appliances over the Internet, wherein the first message comprises a group address which identifies the participants;

each of the multicast appliances receiving the first message;

establishing a plurality of virtual private networks across the Internet routes between the multicast appliances;

10 one or more of the participants communicating in the multi-participant video conference;

the telephone participant joining the multi-participant video conference, wherein said joining comprises:

the telephone participant calling into a gateway server;

15 the telephone participant providing conference ID information;

the PSTN gateway server establishing communication with a conferencing server;

authenticating the telephone participant; and

transmitting multicast group information to the gateway server;

20 wherein the gateway server is operable to use the multicast group information to enable the telephone participant to participate in the multi-participant video conference.

10. The method of claim 9,

25 wherein the telephone participant participating in the multi-participant video conference comprises:

the telephone participant speaking in the video conference;

generating digital voice data in response to the telephone participant speaking;

30 the gateway transforming the digital voice data into IP packets;

configuring the IP packet with a group address according to a multicast protocol to create a multicast IP packet;

encapsulating the multicast IP packet as a unicast packet;

transmitting the unicast packet over the virtual private networks across the Internet between one or more appliances;

one or more of the appliances determining the multicast data from the unicast packet; and

the appliances providing the multicast data to each of the other participants in the group address.

11. A method for adding a first telephone participant to a multi-participant video conference, comprising:

sending a first message to each of a plurality of multicast appliances over the Internet, wherein the first message comprises a group address which identifies the participants;

each of the multicast appliances receiving the first message;

establishing a plurality of virtual private networks across the Internet routes between the multicast appliances;

one or more of the participants communicating in the multi-participant video conference; and

one or more telephone participants joining the multi-participant video conference.

Abstract of the Disclosure

A method which allows standard telephone users to audio conference with video conferencing participants over IP networks in a private secure environment. A dial-out is performed from one or more conference client terminals bridging audio between the Internet and the PSTN networks. The process uses a mixed mode hybrid network architecture for call set-up, initialization and teardown including the method to mix audio at the desktop terminal instead of in a general purpose server as in the prior art. The method conferences video and audio between multiple clients and include audio from a standard telephone network within the conference. A virtual private network connects all of the IP clients together including the voice over IP server used to transcode the proprietary audio into the H.323 standard for transport into the telephony network.

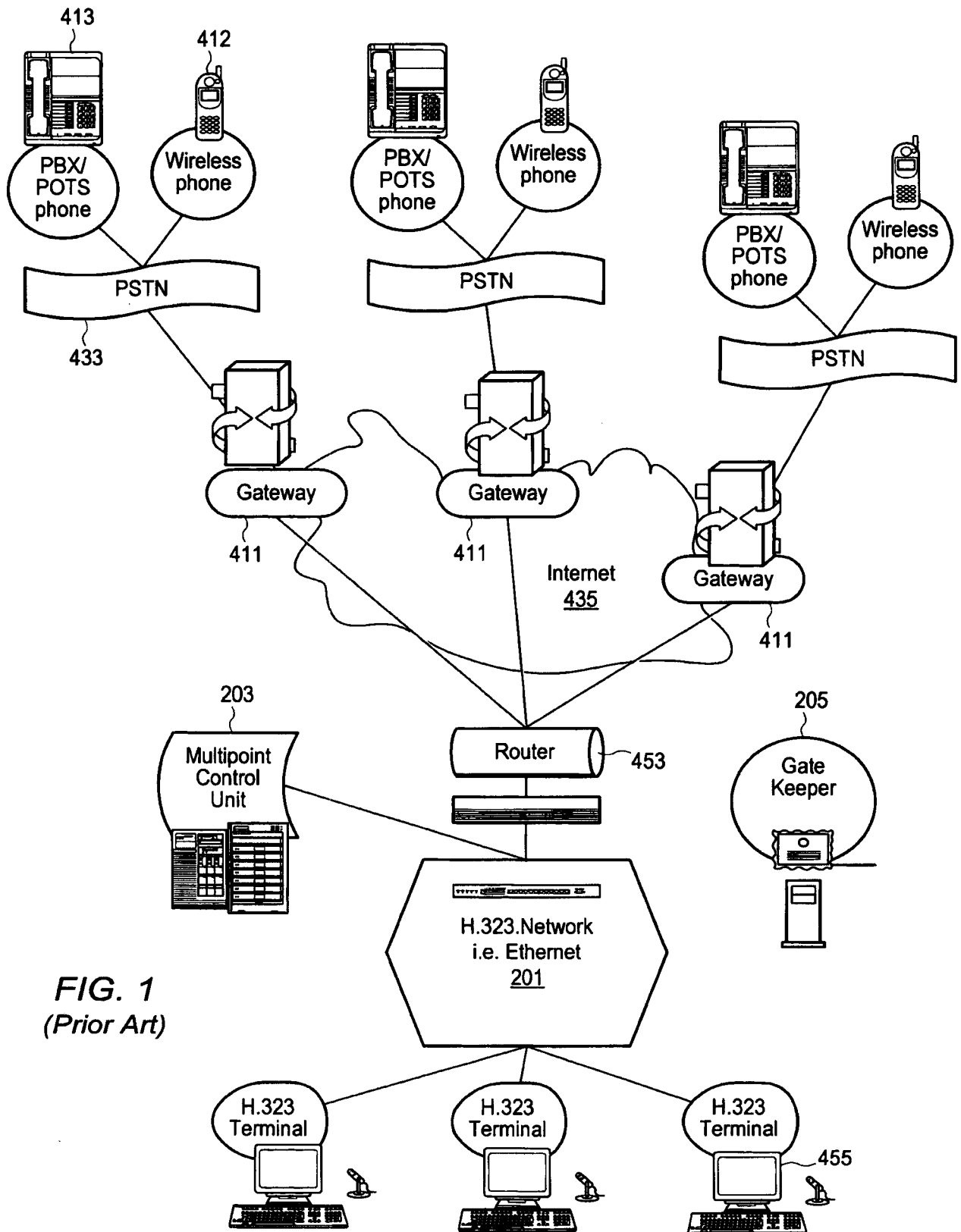


FIG. 1
(Prior Art)

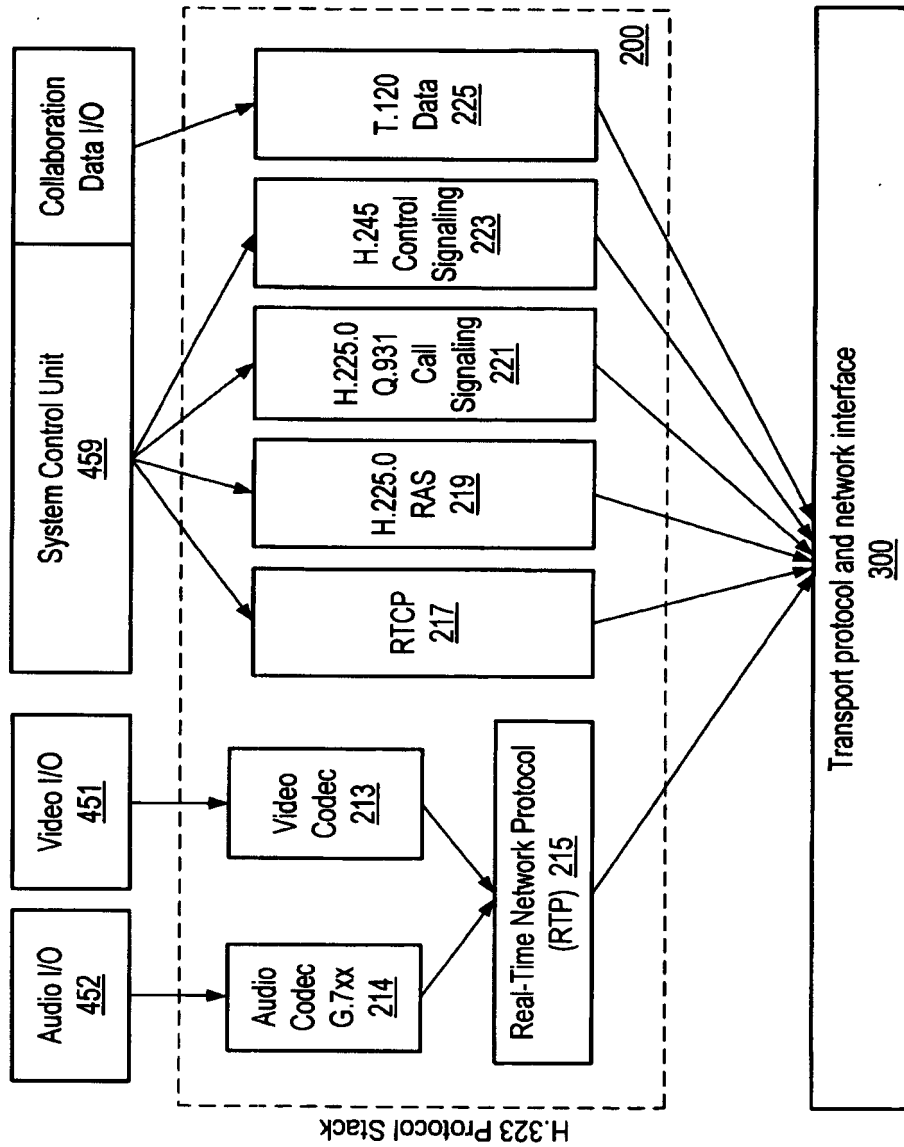


FIG. 2
(Prior Art)

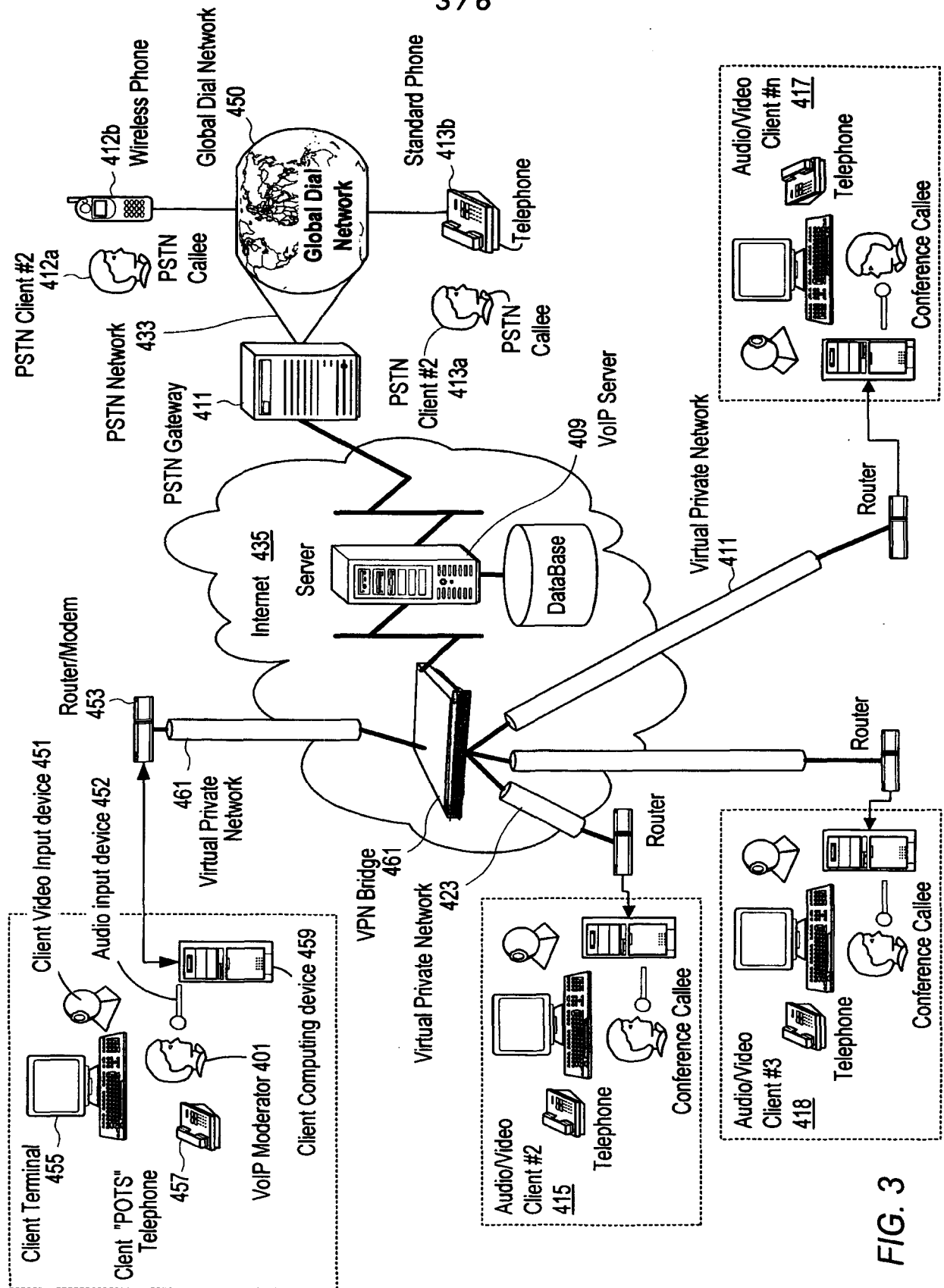


FIG. 3

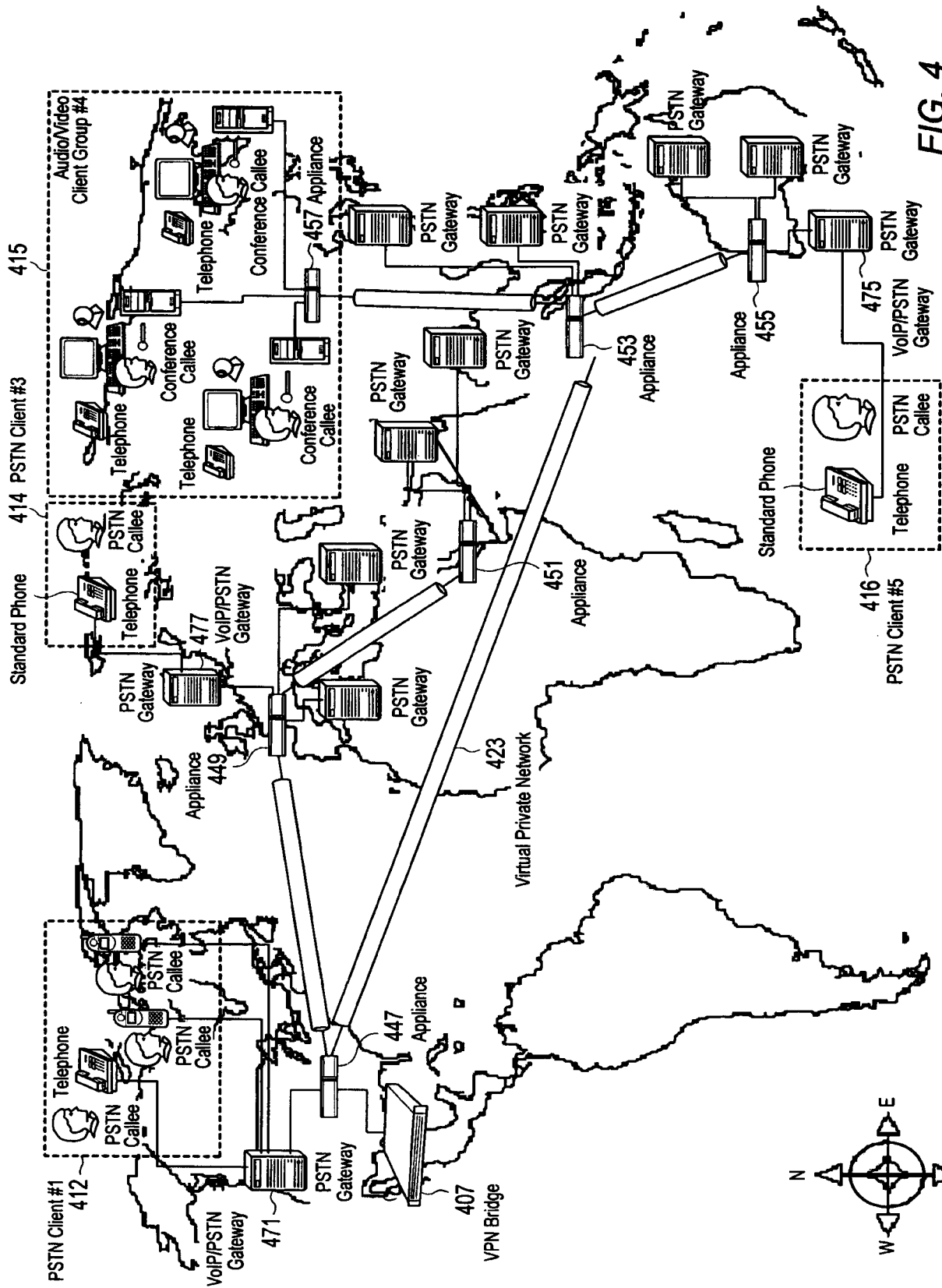


FIG. 4

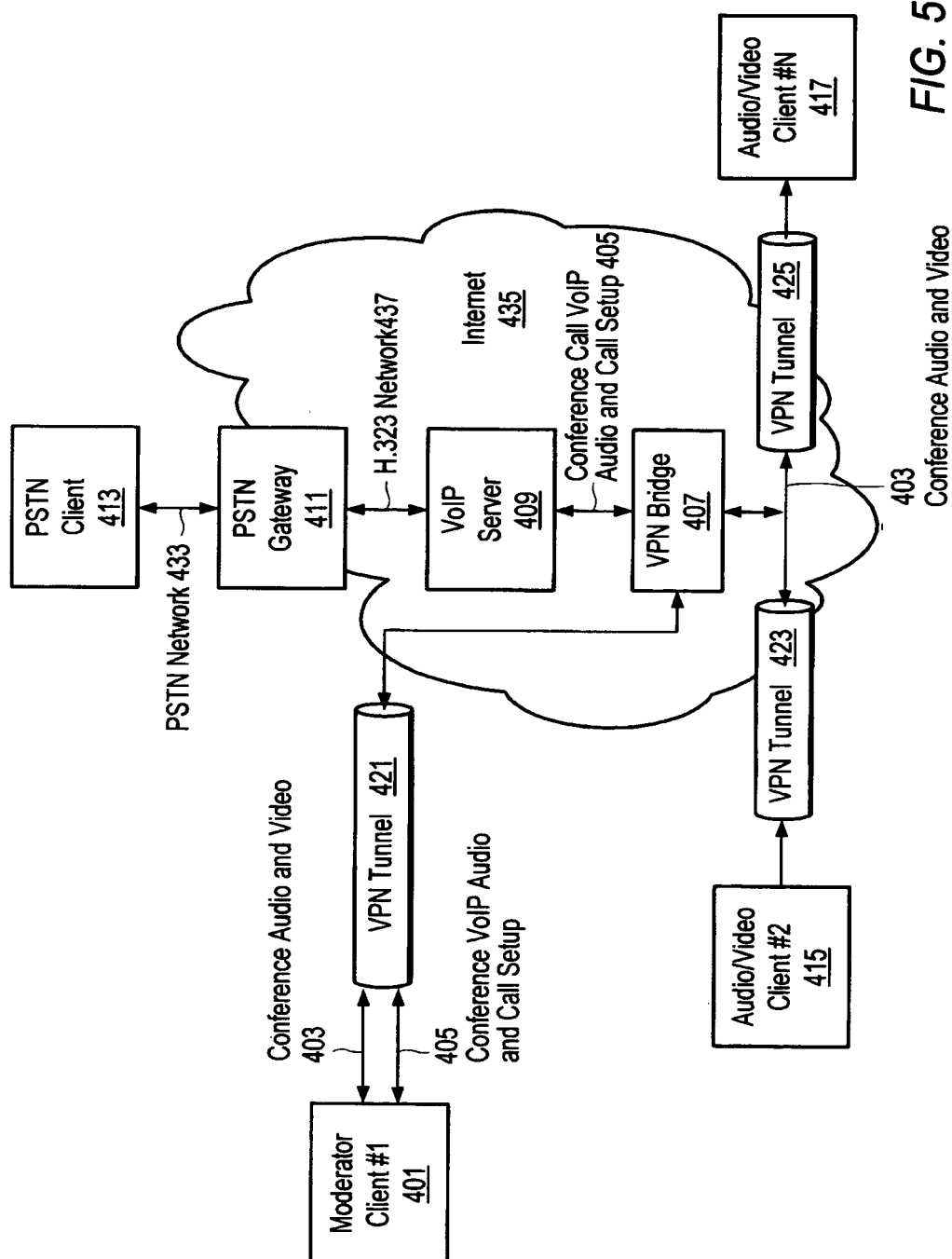


FIG. 5

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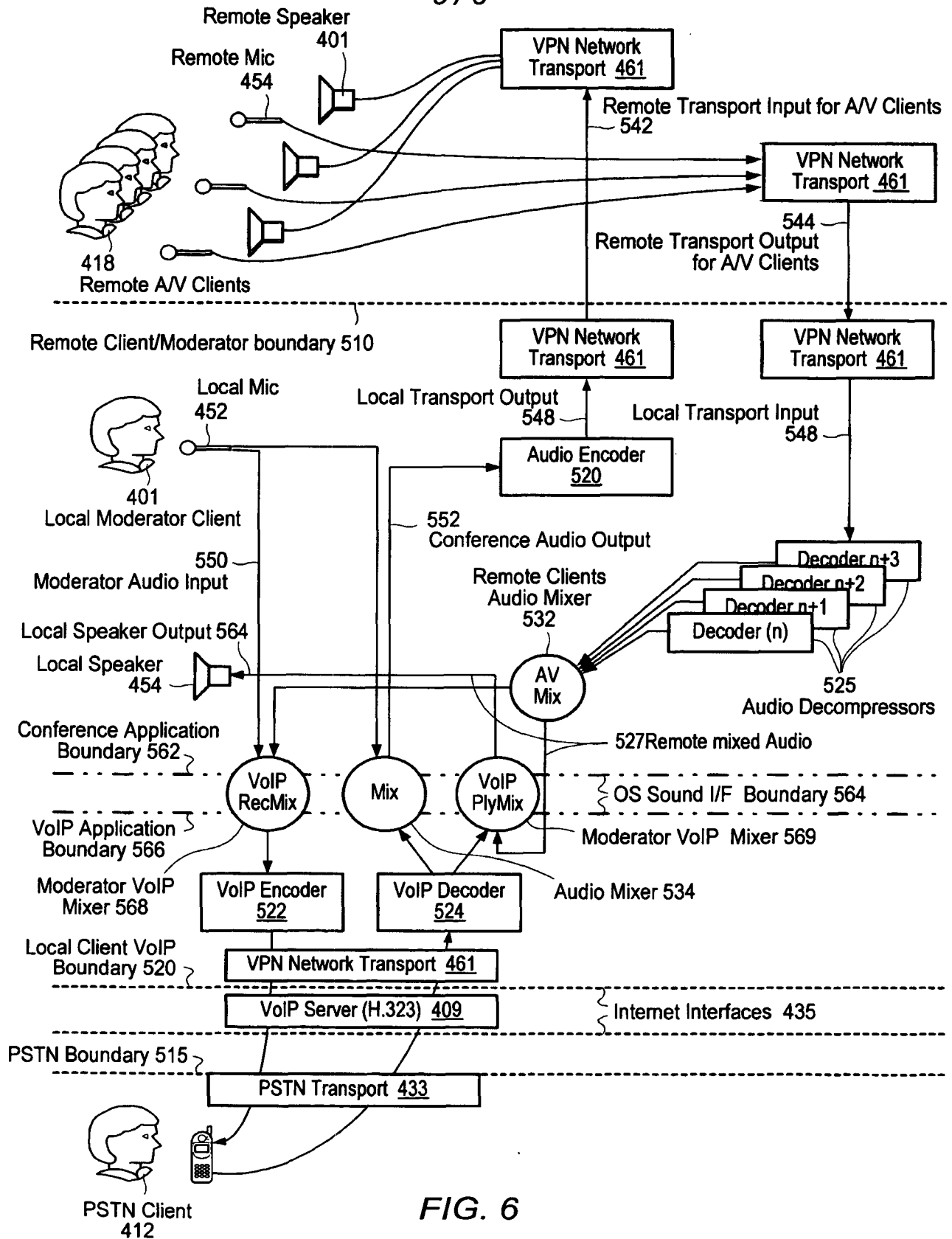


FIG. 6

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled "MEDIA BASED COLLABORATION USING MIXED-MODE PSTN AND INTERNET NETWORKS," the specification of which:

- ☐ is attached hereto.
☒ was filed on March 9, 2004 as Application Serial No. 10/796,560
 and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability of the subject matter claimed in this application, as "materiality" is defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate listed below, or under § 365(a) of any PCT international application listed below designating at least one country other than the United States of America, and have identified below any foreign application for patent or inventor's certificate, or of any PCT international application, having a filing date before that of the application on which priority is claimed.

<u>Prior Foreign Application No.</u>	<u>Country</u>	<u>Filing Date</u> (mm/dd/yy)	<u>Priority</u> <u>Claimed</u>	<u>Cert. copy</u> <u>Attached</u>
N/A				

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

<u>Provisional Application No.</u>	<u>Filing Date</u> (mm/dd/yy)
60/453,307	03/10/03

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below, or under § 365(c) of any PCT international application listed below designating the United States of America, and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose all information known to me to be material to the patentability of the subject matter claimed in this application, as "materiality" is defined in 37 C.F.R. § 1.56, which became available between the filing date of the prior application and the national or PCT international filing date of this application.

<u>Parent Application No.</u>	<u>Filing Date</u> (mm/dd/yy)	<u>Parent Patent No. (if applicable) or Status</u>
N/A		

I hereby revoke any previous Powers of Attorney and appoint Jeffrey C. Hood, Reg. No. 35,198; B. Noël Kivlin, Reg. No. 33,929; Robert C. Kowert Reg. No. 39,255; Eric B. Meyertons, Reg. No. 34,876; Mark S. Williams, Reg. No. 50,658; and Mark K. Brightwell, Reg. No. 47,446; with full power of substitution and revocation, to prosecute the application, to make alterations and amendments therein, to transact all business in the Patent and Trademark Office in connection therewith, and to receive the Letters Patent.

Please direct all communications to:

Jeffrey C. Hood
Meyertons Hood Kivlin Kowert & Goetzel PC
P.O. Box 398
Austin, Texas 78767-0398
Phone: (512) 853-8800

I hereby declare that all statements made herein of my own knowledge are true and that all statements made herein 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 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Inventor's Full Name: Thomas A. Dye
Inventor's Signature:  Date: April 6th, 2004
City and State (or Foreign Country) of Residence: Austin, TX Citizenship: U.S.A.
Post Office and Residence Address: 6621 Candle Ridge Cove, Austin, TX 78731
(Include number, street name, city, state and zip code)

Inventor's Full Name: Thomas A. Dundon
Inventor's Signature: _____ Date: _____
City and State (or Foreign Country) of Residence: Austin, TX Citizenship: U.S.A.
Post Office and Residence Address: 3505 Eldorado Tr., Austin, TX 78739
(Include number, street name, city, state and zip code)

I hereby revoke any previous Powers of Attorney and appoint Jeffrey C. Hood, Reg. No. 35,198; B. Noël Kivlin, Reg. No. 33,929; Robert C. Kowert Reg. No. 39,255; Eric B. Meyertons, Reg. No. 34,876; Mark S. Williams, Reg. No. 50,658; and Mark K. Brightwell, Reg. No. 47,446; with full power of substitution and revocation, to prosecute the application, to make alterations and amendments therein, to transact all business in the Patent and Trademark Office in connection therewith, and to receive the Letters Patent.

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made herein 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 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Inventor's Full Name: Thomas A. Dye

Inventor's Signature: _____ Date: _____

City and State (or Foreign Country) of Residence: Austin, TX Citizenship: U.S.A.

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(Include number, street name, city, state and zip code)

Inventor's Full Name: Thomas A. Dundon

Inventor's Signature: *Thomas A. Dundon* Date: 12 Apr 2004

City and State (or Foreign Country) of Residence: Austin, TX Citizenship: U.S.A.

Post Office and Residence Address: 3505 Eldorado Tr., Austin, TX 78739
(Include number, street name, city, state and zip code)

Electronic Acknowledgement Receipt

EFS ID:	6705469
Application Number:	12646892
International Application Number:	
Confirmation Number:	1932
Title of Invention:	Media Based Collaboration Using Mixed-Mode PSTN and Internet Networks
First Named Inventor/Applicant Name:	Thomas A. Dye
Customer Number:	48008
Filer:	Michael A. Kerr
Filer Authorized By:	
Attorney Docket Number:	MEETRIX-09-001
Receipt Date:	23-DEC-2009
Filing Date:	
Time Stamp:	20:04:43
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	Application Data Sheet	ADS.pdf	1104561 7e051e33f9560baaddbf2a46054b3336a6f6f236	no	5

Warnings:

Information:

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

Exhibit 1005 – 187

2		Application.pdf	1031043 81fb91126ed249a423e09fd8631ae277e4ec3c8	yes	23				
	Multipart Description/PDF files in .zip description								
	Document Description		Start	End					
	Specification		1	17					
	Claims		18	22					
	Abstract		23	23					
Warnings:									
Information:									
3	Drawings-only black and white line drawings	Drawings.pdf	192744 278d625d3ed811077b090b3829fa8eb391939614	no	6				
Warnings:									
Information:									
4	Oath or Declaration filed	Declaration.pdf	128744 af3f0059a402f00152604e6c447311d86e39e280	no	3				
Warnings:									
Information:									
Total Files Size (in bytes):			2457092						
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.									

Filing Date: 12/23/2009

Approved for use through 7/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number

12/646,892**APPLICATION AS FILED – PART I**

(Column 1) (Column 2)

FOR	NUMBER FILED	NUMBER EXTRA
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A
TOTAL CLAIMS (37 CFR 1.16(i))	11	0
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	0
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$260 (\$130 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR	
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))		

* If the difference in column 1 is less than zero, enter "0" in column 2.

SMALL ENTITY

OR

LARGE ENTITY

RATE (\$)	FEE (\$)
N/A	82
N/A	270
N/A	110
X\$ 26	0
X\$110	0
195	
TOTAL	462

OR

RATE (\$)	FEE (\$)
N/A	
N/A	
N/A	
2X\$52	
1X\$220	
390	
TOTAL	

APPLICATION AS AMENDED – PART II

(Column 1) (Column 2) (Column 3)

AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total (37 CFR 1.16(i))	*	Minus **	=
Independent (37 CFR 1.16(h))	*	Minus ***	=
Application Size Fee (37 CFR 1.16(s))			
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))			

SMALL ENTITY

OR

OTHER THAN SMALL ENTITY

RATE (\$)	ADDITIONAL FEE (\$)
X =	
X =	
N/A	
TOTAL	
ADD'T FEE	

OR

RATE (\$)	ADDITIONAL FEE (\$)
X =	
X =	
N/A	
TOTAL	
ADD'T FEE	

(Column 1) (Column 2) (Column 3)

AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total (37 CFR 1.16(i))	*	Minus **	=
Independent (37 CFR 1.16(h))	*	Minus ***	=
Application Size Fee (37 CFR 1.16(s))			
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))			

RATE (\$)	ADDITIONAL FEE (\$)
X =	
X =	
N/A	
TOTAL	
ADD'T FEE	

OR

RATE (\$)	ADDITIONAL FEE (\$)
X =	
X =	
N/A	
TOTAL	
ADD'T FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

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

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

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