

Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the “right to exclude” granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on

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nonstatutory double patenting provided the reference application or patent either is shown to be commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP § 2146 *et seq.* for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The filing of a terminal disclaimer by itself is not a complete reply to a nonstatutory double patenting (NSDP) rejection. A complete reply requires that the terminal disclaimer be accompanied by a reply requesting reconsideration of the prior Office action. Even where the NSDP rejection is provisional the reply must be complete. See MPEP § 804, subsection I.B.1. For a reply to a non-final Office action, see 37 CFR 1.111(a). For a reply to final Office action, see 37 CFR 1.113(c). A request for reconsideration while not provided for in 37 CFR 1.113(c) may be filed after final for consideration. See MPEP §§ 706.07(e) and 714.13.

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/patent/patents-forms. The actual filing date of the application in which the form is filed determines what form (e.g.,

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PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-

based eTerminal Disclaimer may be filled out completely online using web-

screens. An eTerminal Disclaimer that meets all requirements is auto-processed

and approved immediately upon submission. For more information about

eTerminal Disclaimers, refer to [www.uspto.gov/patents/apply/applying-](http://www.uspto.gov/patents/apply/applying-online/eterminal-disclaimer)

[online/eterminal-disclaimer](http://www.uspto.gov/patents/apply/applying-online/eterminal-disclaimer)

3. Claims 4-11, 13, 16-33, 46-50 are rejected on the ground of nonstatutory

double patenting as being unpatentable over claims 1-18 of U.S. Patent No.

11,146,516. Although the claims at issue are not identical, they are not patentably

distinct from each other because for example independent claim 4 of the current

application is an obvious variation of claim 1 of U.S. Patent No. 11,146,516.

4. Claims 4-11, 13, 16-33, 46-50 rejected on the ground of nonstatutory

double patenting as being unpatentable over claims 1-58 of U.S. Patent No.

10,841,261. Although the claims at issue are not identical, they are not patentably

distinct from each other because for example independent claim 4 combined with

dependent claim 22 is an obvious variation of claim 1 of .U.S. Patent No.

10,841,261.

5. Claims 4-11, 13, 16-33, 46-50 are rejected on the ground of nonstatutory

double patenting as being unpatentable over claims 1-59 of U.S. Patent No.

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10,511,557. Although the claims at issue are not identical, they are not patentably distinct from each other because for example independent claim 4 of the current application combined with dependent claim 22 is an obvious variation of claim 1 of U.S. Patent No. 10,511,557.

Conclusion

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

--(US2006/0268750A1) to Weiner discloses methods and systems for instant voice messaging and instant voice message retrieval which teaches: A system for instant voice messaging comprising an IVM server operative to essentially simultaneously receive from an initiating user at least one voice message fragment and stream the at least one voice fragment to at least one target user; and a switch coupled to the IVM server and operative to effect communications between the initiating user and each target user and the IVM server, as well as between the users themselves. The streaming operation ends with an entire instant voice message being transmitted to the target user(s). Each target user may instantly retrieve a message by using a smart notification provided by the IVM server.

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Special numbering systems facilitate both the instant voice messaging and the instant message retrieval aspects.

--(US 2001/0052019A1) to Walters et al. video mail delivery system which teaches: A video mail delivery system for generating and transmitting video mail between a sender computer and a receiver computer over a communications network, such as the Internet. A video mail file containing audio and video content is recorded in a standard audio video interleave format and is then reformatted and compressed into an advanced streaming format. A video mail message window on the sender computer display enables the addition of an electronic text message to the video mail. A hyperlink to the compressed video mail file is inserted automatically into the video mail message window. When the video mail message is sent, the compressed video mail file is transmitted to a video store and forward server that stores the video mail file until it is accessed by the destination receiver computer. The electronic text message and hyperlink to the video mail file are sent to the electronic mail server of an Internet services provider for delivery to the mail server of the receiver computer's Internet services provider. When the electronic text message is opened, the user at the receiver computer clicks on the hyperlink to have the selected video file

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streamed from the video server to the receiver computer, where it is viewed in a video mail window display.

--(WO 0110128A1) to Liwerant et al. discloses instant video messenger which teaches: Methods and systems for a **sender** of a video message to send the message over a computer network from the **sender's** computer directly to a receiver computer used by a recipient, without the intermediation of a server computer. A server computer determines whether the receiver computer is online. In response to a request from the **sender** computer, the server informs the **sender** computer of the online status of the receiver computer. The **sender** computer prepares a video message, including a video segment, and optionally audio, text and other information. The **sender** computer informs the receiver computer that a video message is available to be sent. Depending on the response of the receiver computer, the **video message** is streamed from the **sender** computer to the receiver computer, the video message is sent to a host computer for storage and later streaming to the receiver computer, or is not sent. If the receiver computer is not online, the video message is optionally sent to the host computer for storage and later streaming to the receiver computer.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to MELUR RAMAKRISHNAIAH whose telephone number is (571)272-8098. The examiner can normally be reached Flexible.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duc M Nguyen can be reached on 27503. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: <https://patentcenter.uspto.gov>. Visit <https://www.uspto.gov/patents/apply/patent-center> for more information about Patent Center and <https://www.uspto.gov/patents/docx> for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA)

or 571-272-1000.

/MELUR RAMAKRISHNAIAH/

Primary Examiner, Art Unit 2651

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 17/889,108		Filing Date 08/16/2022		☐ To be Mailed			
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO											
APPLICATION AS FILED - PART I											
		(Column 1)		(Column 2)							
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)			
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A					
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A		N/A		N/A					
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A					
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 = *				x \$50 =					
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 = *				x \$240 =					
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))											
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL					
APPLICATION AS AMENDED - PART II											
		(Column 1)		(Column 2)		(Column 3)					
AMENDMENT	06/29/2023	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	* 65	Minus	** 43	= 22		x \$40 =		880		
	Independent (37 CFR 1.16(h))	* 4	Minus	*** 3	= 1		x \$192 =		192		
	☐ Application Size Fee (37 CFR 1.16(s))										
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
								TOTAL ADD'L FEE		1072	
		(Column 1)		(Column 2)		(Column 3)					
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=		x \$0 =				
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x \$0 =				
	☐ Application Size Fee (37 CFR 1.16(s))										
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
								TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.								LIE			
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".								/VINCENT S BUTLER/			
*** 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.

Doc Code: DIST.E.FILE Document Description: Electronic Terminal Disclaimer - Filed		PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce
Electronic Petition Request	TERMINAL DISCLAIMER TO OBIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT	
Application Number	17889108	
Filing Date	16-Aug-2022	
First Named Inventor	Thomas KATIS	
Attorney Docket Number	REBLP003C21	
Title of Invention	TELECOMMUNICATION AND MULTIMEDIA MANAGEMENT METHOD AND APPARATUS	
☒ Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action ☒ This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.		
Owner	Percent Interest	
Voxer IP LLC	100 %	
<p>The owner(s) with percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent number(s)</p> <p>11146516 10841261 10511557</p> <p>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.</p> <p>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:</p> <ul style="list-style-type: none"> - expires for failure to pay a maintenance fee; - is held unenforceable; - is found invalid by a court of competent jurisdiction; - is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321; - has all claims canceled by a reexamination certificate; - is reissued; or - is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer. 		

☒ Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.

☐ I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.

Applicant claims the following fee status:

☒ Small Entity

☐ Micro Entity

☐ Regular Undiscounted

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

THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES

I certify, in accordance with 37 CFR 1.4(d)(4) that I am:

☒ An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application

Registration Number 34239

☐ A sole inventor

☐ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application

☐ A joint inventor; all of whom are signing this request

Signature	/James W. Rose/
Name	James W. Rose

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

Electronic Patent Application Fee Transmittal

Application Number:	17889108			
Filing Date:	16-Aug-2022			
Title of Invention:	TELECOMMUNICATION AND MULTIMEDIA MANAGEMENT METHOD AND APPARATUS			
First Named Inventor/Applicant Name:	Thomas E. KATIS			
Filer:	James W. Rose/Cara Hedin			
Attorney Docket Number:	REBLP003C21			
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
STATUTORY OR TERMINAL DISCLAIMER	2814	1	170	170
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				170

Doc Code: DISQ.E.FILE

Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 17889108

Filing Date: 16-Aug-2022

Applicant/Patent under Reexamination: KATIS

Electronic Terminal Disclaimer filed on June 29, 2023

☒ APPROVED

This patent is subject to a terminal disclaimer

☐ DISAPPROVED

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

U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt

EFS ID:	48228263
Application Number:	17889108
International Application Number:	
Confirmation Number:	2115
Title of Invention:	TELECOMMUNICATION AND MULTIMEDIA MANAGEMENT METHOD AND APPARATUS
First Named Inventor/Applicant Name:	Thomas E. KATIS
Customer Number:	76743
Filer:	James W. Rose/Cara Hedin
Filer Authorized By:	James W. Rose
Attorney Docket Number:	REBLP003C21
Receipt Date:	29-JUN-2023
Filing Date:	16-AUG-2022
Time Stamp:	13:32:46
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$170
RAM confirmation Number	E20236SD32446606
Deposit Account	504481
Authorized User	Cara Hedin

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

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	41744	no	2
			688af8da48346ea56433b78bc9b5c9804900f236		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	38043	no	2
			8caff13e5f1037e83001a361d5932068796181c2		
Warnings:					
Information:					
Total Files Size (in bytes):			79787		
<p>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.</p> <p><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.</p> <p><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.</p> <p><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.</p>					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: KATIS et al.

Attorney Docket No.: REBLP003C21

Application No.: 17/889,108

Examiner: RAMAKRISHNAIAH,
MELUR

Filed: August 16, 2022

Group: 2651

Title: TELECOMMUNICATION AND
MULTIMEDIA MANAGEMENT METHOD AND
APPARATUS

Confirmation No.: 2115

CERTIFICATE OF EFS-WEB TRANSMISSION

I hereby certify that this correspondence is being transmitted electronically through EFS-WEB to the Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450 on June 29, 2023.

Signed: _____/Cara Hedlin/_____
Cara Hedlin

**INFORMATION DISCLOSURE STATEMENT
BEFORE FINAL ACTION OR NOTICE OF ALLOWANCE
(37 CFR §§ 1.56 AND 1.97(c))**

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

Dear Commissioner:

The reference(s) identified in the attached PTO Form 1449, (copies of non-U.S. references are attached), may be material to examination of the above-identified patent application. Applicants identify the reference(s) in compliance with their duty of disclosure pursuant to 37 CFR §§ 1.56 and 1.97. The Examiner is requested to make the identified reference(s) of official record in this application.

This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that the reference(s) indeed constitutes prior art.

This Information Disclosure Statement is being filed after the mailing date of the first Office Action on the merits, or after three months from the filing date of this application, whichever event occurred last, but it is believed before the mailing date of either: (i) a final action under § 1.113 or (ii) a notice of allowance under § 1.311, whichever occurs first.

Accompanying this Information Disclosure Statement is the fee set forth in 37 CFR 1.17(p).

Authorization for Deposit Account

The Commissioner is hereby authorized to charge Deposit Account 50-4481 (Order No. REBLP003C21) for \$104.00 in payment of the Information Disclosure Statement Fee. If it is determined that any additional fees are due, the Commissioner is hereby authorized to charge such fees to Deposit Account 50-4481 (Order No. REBLP003C21).

Respectfully submitted,
BEYER LAW GROUP LLP

/James W. Rose/
James W. Rose
Registration No. 34,239

P. O. Box 51887
Palo Alto, CA 94303-1887
650-842-1300

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: KATIS et al.

Attorney Docket No.: REBLP003C21

Application No.: 17/889,108

Examiner: RAMAKRISHNAIAH,
MELUR

Filed: August 16, 2022

Group: 2651

Title: TELECOMMUNICATION AND
MULTIMEDIA MANAGEMENT METHOD AND
APPARATUS

Confirmation No.: 2115

CERTIFICATE OF EFS-WEB TRANSMISSION

I hereby certify that this correspondence is being transmitted electronically through EFS-WEB to the Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450 on June 29, 2023.

Signed: _____/Cara Hedin/
Cara Hedin

AMENDMENT A

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

Dear Commissioner:

In response to the Office Action dated May 25, 2023, please amend the above-identified patent application as follows:

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

Remarks/Arguments begin on page 15 of this paper.

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

Listing of Claims:

1.-3. (Cancelled)

4. (Currently Amended) A method comprising:

maintaining a communication infrastructure on a network;

receiving, at the communication infrastructure, information from a first client device used by an initiating participant, the information for forwarding a video message, the video message initiating an initiating participant of a multi-media conversation,

using the information ~~used by~~ at the communication infrastructure for forwarding the video message by:

(i) ~~ascertaining and notifying one or more~~ second participants ~~to join in the multi-media conversation for participation in the multi-media conversation using the information;~~

(ii) providing notifications to second client devices located on the network and associated with one or more of the second participants respectively; and
~~receiving, at the communication infrastructure, video media of a video message associated with the multi-media conversation, the video media streamed by a first client device associated with the initiating participant;~~

(iii) ~~selectively~~ streaming, via the communication infrastructure, at least portions of the video media of the video message to one or more of the second client devices ~~associated with the one or more second participants respectively~~ as the video media of the video message is streamed by the first client device, received at the communication infrastructure, and stored by the communication infrastructure,
the ~~selective~~ streaming of the video media of the video message by the communication infrastructure enabling the one or more second participants client devices to ~~selectively~~ render the at least portions of the video media of the video message in a real-time mode:

(a) while the video media of the video message is streamed by the first client device;
and

(b) without first setting up an end-to-end connection over the network between the first client device and any of the one or more second client devices respectively; and

enabling the one or more second participants that have joined the multi-media conversation ~~to selective participate in the multi-media conversation,~~ during the rendering

of the video media of the video message in the real-time mode, by any one or a combination of to:

- (i) selectively ~~rendering the video media of the video message in the real-time mode or a time-shifted mode~~ add to the multi-media conversation one or more additional messages that are generated in response the video message; and
- (ii) ~~selectively adding to the multi-media conversation one or more additional messages that is/are associated with the video message~~ render the one or more additional messages that are generated in response with the video message; and (iii) ~~selectively rendering the one or more additional messages that is/are associated with the video message.~~

5. (Previously Presented) The method of claim 4, wherein the adding of at least one of the one or more additional messages overlaps with the streaming of the video media of the video message by the first client device.

6. (Currently Amended) The method of claim 4, ~~wherein the selective participation includes further comprising enabling~~ simultaneously rendering of:
the video media of the video message in the real-time mode; and
the one or more additional messages that is/are added while the video media of the video message is streamed by the first client device.

7. (Currently Amended) The method of claim 4, ~~wherein the selective participation includes further comprising enabling~~ simultaneously rendering of:
the video media of the video message in a time-shifted mode; and
the one or more additional messages added to the multi-media conversation.

8. (Previously Presented) The method of claim 4, wherein the adding of at least one of the one or more additional messages occurs after the streaming of the video media of the video message by the first client device is complete.

9. (Currently Amended) The method of claim 4, further comprising enabling adding ~~any of to~~ the one or more additional messages ~~associated with the multi-media conversation~~ during or after any of:

- (c) the streaming of the video media of the video message by the first client device;

- (d) the rendering of the video media of the video message in the real-time; or
- (e) the rendering of the video media of the video message in ~~[[the]]~~ a time-shifted mode.

10. (Currently Amended) The method of claim 4, wherein the one or more additional messages are organized and listed in a time-order in which the one or more additional messages ~~were~~ are added to the multi-media conversation respectively.

11. (Currently Amended) The method of claim 4, wherein the one or more additional messages ~~may~~ selectively include one or more of the following media types: voice; video; photo; text; location data; sensor data; image; or other data.

12. (Cancelled)

13. (Currently Amended) The method of claim 4, further comprising configuring ~~ascertaining, by~~ the communication infrastructure ~~one or more~~ to ascertain IP address(es) for the one or more second client devices respectively.

14. (Cancelled)

15. (Cancelled)

16. (Currently Amended) The method of claim 4, further comprising:
enabling the initiating participant to initiate multiple multi-media conversations by creating and disseminating multiple video messages, each of which may be selectively rendered in the real-time mode, ~~or the time-shifted mode~~ and each ~~has~~ having a string of one or more additional messages associated therewith; and

enabling the initiating participant to selectively switch participation among the multiple multi-media conversations.

17. (Currently Amended) The method of claim 4, further comprising: ~~tagging the multi-media conversation using one or more tags; and~~ enabling the multi-media conversation to be searchable using ~~[[the]]~~ one or more tags.

18. (Previously Presented) The method of claim 4, further comprising transcoding the video media of the video message from one encoding format as streamed by the first client device to one or more second encoding format(s) suitable for rendering on the one or more second client devices respectively.

19. (Currently Amended) The method of claim 4, further comprising: ~~ascertaining packet loss along a delivery route over the network to a select second client device; ascertaining an available bandwidth along the delivery route over the network to the select second client device based on the ascertained packet loss; and~~ selectively degrading a quality level of the video media of the video message, ~~commensurate with the ascertained bandwidth,~~ when streaming the video media of the video message along ~~the a~~ delivery route over the network to ~~the a~~ select second client device, the quality level of the video media degraded commensurate with an ascertained bandwidth along the delivery route over the network.

20. (Previously Presented) The method of claim 4, further comprising providing two or more rendering options for rendering the video media of the video message, the two or more rendering options including: play; play fast; play slow; jump back; jump forward; jump to start; jump to head; rewind; pause; and play again.

21. (Currently Amended) The method of claim 4, further comprising assigning one or more attributes to the multi-media conversation, the one or more attributes including[[]];

(c) a name for the multi-media conversation;

(d) a name for the initiating participant;

(e) a name or names for ~~any of~~ the initiating participant or any of the second participant(s) that have added ~~any of to~~ the one or more additional messages ~~to the multi-media conversation~~ respectively; or

(f) a date or time for ~~each of~~ the video message and each of the one or more additional messages added to the multi-media conversation respectively, ~~and~~

~~(g) —any combination of (c) through (f).~~

22. (Currently Amended) The method of claim 4, wherein the streaming of the video media of the video message further comprises:

segmenting the video media of the video message into a sequence of segments, the segments each including a payload;

adaptively adjusting a number of bits representing the video media of the video message contained in the payloads of the segments, the number of bits adaptively adjusted based on an ascertained bandwidth over a network connection; and

streaming the sequence of segments, with the adaptively adjusted number of bits contained in the payloads, over the network connection.

23. (Previously Presented) The method of claim 4, further comprising:

transcoding the video media of the video message; and

streaming the video media of the video message to the one or more second client devices as originally encoded or as transcoded as needed for rendering on the one or more second client devices respectively.

24. (Currently Amended) The method of claim 4, further comprising adaptively adjusting as needed a number of bits contained in video media payloads used to stream the video media of the video message by the communication infrastructure to ~~each of~~ the one or more second client devices respectively, the adaptive adjustment based on bandwidth conditions over network connection(s) between the communication infrastructure and the one or more second client devices respectively.

25. (Currently Amended) The method of claim 4, further comprising segmenting the video message into a plurality of indexed media payloads, the plurality of indexed media payloads ~~time-stamped, sequentially numbered, and~~ associated by a message identifier and sequentially numbered so that the plurality of indexed media payloads can be rendered in the sequentially numbered order.

26. (Previously Presented) The method of claim 4, further comprising enabling the initiating participant to initiate multiple conversations with multiple video messages at designated times or fixed time intervals respectively.

27. (Currently Amended) The method of claim 4, wherein the information is indicative that the video message is a broadcast, and in response, the communication infrastructure uses the information to ascertain at least some of ~~ascertains and notifies~~ the ~~one or more~~ second participants for broadcast~~ing~~ ing ~~[[of]]~~ the video message.

28. (Currently Amended) The method of claim 4, further comprising ~~requiring the initiating participant, and enabling~~ the one or more second participants[,] to ~~each log into and be authenticated by the communication infrastructure~~ be in an application running on their associated second client devices before initiating or participating in the multi-media conversation when notified of the video message.

29. (Currently Amended) The method of claim 4, further comprising:
providing a user interface for ~~each of~~ the first client device and the one or more second client devices respectively; and
enabling the initiating participant, and the one or more second participants, to initiate and selectively ~~join and~~ participate in the multi-media conversation through the user interface provided on the first client device and ~~each of~~ the one or more second client devices respectively.

30. (Currently Amended) The method of claim 4, further comprising distributing an application ~~for execution on client devices of users of a multi-media messaging service implemented by the communication infrastructure, the application~~ defining a user interface that enables the users of the multi-media messaging service to selectively initiate and/or participate in a plurality of multi-media conversations, each including at least one video message, that can be rendered in the real-time mode ~~or the time-shifted mode.~~

31. (Cancelled)

32. (Currently Amended) The method of claim 4, further comprising: ~~storing the video media of the video message and the one or more additional messages in one or more storage locations accessible by the communication infrastructure; and~~ selectively serving the video media of the video message, and the one or more additional messages, from ~~the~~ one or more storage locations to one of (i) the first client device, (ii) any of the one or more second client devices, or both (i) and (ii).

33. (Currently Amended) The method of claim 4, wherein the video media of the video message is ~~selectively~~ made available by the communication infrastructure to the one or more second client devices for rendering either in (i) the real-time mode or (ii) out of one or more storage locations in ~~[[the]]~~ a time-shifted mode.

34.-46. (Cancelled)

47. (Previously Presented) The method of claim 4, wherein the video message is a broadcast.

48. (Currently Amended) The method of claim 4, further comprising:
providing the initiating participant an ability for selectively designating the information for the video message as one of a broadcast, for an identified user, for identified multiple users, for a defined group of users, or for a channel; and
configuring the communication infrastructure to ascertain the ~~one or more~~ second participants, using the information, of the multi-media conversation at least partially in compliance with the selected designation.

49. (Currently Amended) The method of claim 4, further comprising:
providing the initiating participant an ability for designating the video message as a broadcast; and
in response to the designation, configuring the communication infrastructure to broadcast the video message to at least some of the ~~one or more~~ second participants.

50. (Currently Amended) The method of claim 4, wherein the video message is broadcast to the ~~one or more~~ second participants that positively ~~responded~~ respond to the notification respectively.

51. (New) The method of claim 4, wherein the information identifies one or more users of the communication infrastructure as defined by the initiating participant.

52. (New) The method of claim 4, wherein the information is useful for ascertaining a group of users of the communication infrastructure associated with the initiating participant.

53. (New) The method of claim 4, wherein the information is useful for ascertaining a channel having one or more users of the communication infrastructure associated therewith.

54. (New) The method of claim 4, wherein the information is indicative that the video message is a broadcast.

55. (New) A method comprising:

maintaining a messaging infrastructure on a network;

receiving, at the messaging infrastructure, information from a first device used by an initiating participant, the information usable by the messaging infrastructure for forwarding a video message, the video message initiating a conversation,

using the information at the messaging infrastructure for forwarding the video message by:

(i) ascertaining second participants for participation in the conversation using the information; and

(ii) streaming, via the messaging infrastructure, at least portions of the video media of the video message to one or more second devices associated with at least some of the ascertained second participants, the streaming to the one or more second devices occurring as the video media of the video message is streamed by the first device, received at the messaging infrastructure, and stored by the messaging infrastructure,

the streaming of the video media of the video message by the messaging infrastructure enabling the one or more second devices to render the at least portions of the video media of the video message in a real-time mode:

(a) while the video media of the video message is streamed by the first device; and

(b) without first setting up an end-to-end connection over the network between the first device and any of the one or more second devices respectively; and

enabling the one or more second participants that have joined the conversation to:

(i) selectively add to the conversation one or more additional messages; and

(ii) render the one or more additional messages.

56. (New) The method of claim 55, wherein the adding of at least one of the one or more additional messages overlaps with the streaming of the video media of the video message by the first device.

57. (New) The method of claim 55, further comprising enabling simultaneously rendering of:

the video media of the video message in the real-time mode; and

the one or more additional messages that is/are added while the video media of the video message is being rendered in the real-time mode.

58. (New) The method of claim 55, wherein the adding or rendering of at least one of the one or more additional messages occurs after the streaming of the video media of the video message by the first device is complete.

59. (New) The method of claim 55, further comprising organizing the one or more additional messages in a time-order, the one or more additional messages including one or more of the following media types: voice; video; photo; text; location data; sensor data; image; or other data.

60. (New) The method of claim 55, further comprising transcoding the video media of the video message from one encoding format as streamed by the first device to one or more second encoding format(s) as needed for rendering on the one or more second device(s) respectively.

61. (New) The method of claim 55, further comprising selectively degrading quality level(s) of the video media of the video message when streaming the video media of the video message along one or more delivery route(s) over the network to one or more select second device(s) respectively.

62. (New) The method of claim 55, further comprising adaptively adjusting a number of bits contained in video media payloads used to stream the video media of the video message by the messaging infrastructure to the one or more second device(s) respectively.

63. (New) The method of claim 55, wherein the information is indicative that the video message is a broadcast, and in response, the messaging infrastructure uses the information to ascertain at least some of the second participants for broadcasting the video message.

64. (New) The method of claim 55, further comprising notifying the one or more second participants of the video message.

65. (New) The method of claim 55, further comprising configuring the messaging infrastructure to selectively serve from storage to the first device for rendering in a time-shifted mode one of:

- (i) the video media of the video message;
- (ii) the one or more additional messages; or
- (iii) both (i) and (ii).

66. (New) The method of claim 55, further comprising configuring the messaging infrastructure to selectively serve from storage to any of the one or more second devices one of:

- (i) the video media of the video message;
- (ii) the one or more additional messages; or
- (iii) both (i) and (ii).

67. (New) The method of claim 55, wherein the video message is a broadcast.

68. (New) The method of claim 55, wherein the information is useful for ascertaining a group of users for participation in the conversation, the group of users associated with the initiating participant.

69. (New) A method comprising:

maintaining a messaging infrastructure on a network;

receiving, at the messaging infrastructure, information from a first device used by an initiating user, the information usable by the messaging infrastructure for forwarding a video message to a group of users of the messaging infrastructure,

the group of users associated with the initiating user,

the video message initiating a conversation between the initiating user and the group of users;

forwarding, by the messaging infrastructure, the video message to at least some of the group of users by:

- (i) using the information to ascertain the group of users and to locate second devices on the network associated with at least some of the group of users; and
- (ii) streaming, via the messaging infrastructure, at least portions of the video media of the video message to one or more of the second devices, the streaming to the one or more second devices occurring as the video media of the video message is

streamed by the first device, received at the messaging infrastructure, and stored by the messaging infrastructure,

the streaming of the video media of the video message by the messaging infrastructure enabling the one or more second devices to render the at least portions of the video media of the video message in a real-time mode:

(a) while the video media of the video message is streamed by the first device; and

(b) without first setting up an end-to-end connection over the network between the first device and any of the one or more second devices respectively; and

enabling the one or more second users that have joined the conversation to selectively add to the conversation one or more additional messages or render the one or more additional messages.

70. (New) The method of claim 69, wherein the adding or rendering of at least one of the one or more additional messages occurs during the streaming of the video media of the video message by the first device.

71. (New) The method of claim 69, wherein the adding or rendering of at least one of the one or more additional messages occurs after the streaming of the video media of the video message by the first device is complete.

72. (New) The method of claim 69, further comprising transcoding the video media of the video message from one encoding format as streamed by the first device to one or more second encoding format(s) as needed for rendering on the one or more second device(s) respectively.

73. (New) The method of claim 69, further comprising selectively degrading quality level(s) of the video media of the video message when streaming the video media of the video message from the messaging infrastructure along one or more delivery route(s) over the network to one or more select second device(s) respectively.

74. (New) The method of claim 69, further comprising adaptively adjusting a number of bits contained in video media payloads used to stream the video media of the video message by the messaging infrastructure to the one or more second devices, respectively.

75. (New) The method of claim 69, wherein the information is indicative that the video message is a broadcast, and in response, the messaging infrastructure broadcasts the video message to at least some of the group of users associated with the initiating user.

76. (New) The method of claim 69, further comprising notifying the group of users of the video message.

77. (New) The method of claim 69, further comprising organizing the one or more additional messages in a time-order, the one or more additional messages including one or more of the following media types: voice; video; photo; text; location data; sensor data; image; or other data..

78. (New) A method comprising:

maintaining a messaging infrastructure on a network;

receiving, at the messaging infrastructure, information from a first device used by an initiating user, the information usable by the messaging infrastructure for forwarding a video message broadcast, the video message broadcast initiating a conversation between the initiating user and second users of the messaging infrastructure;

forwarding, by the messaging infrastructure, the video message broadcast to at least some of the second users by:

(i) using the information to ascertain the second users and to locate second devices on the network associated with at least some of the second users; and

(ii) streaming, via the messaging infrastructure, at least portions of the video media of the video message broadcast to one or more of the second devices, the streaming to the one or more second devices occurring as the video media of the video message broadcast is received by the messaging infrastructure from the first device and stored by the messaging infrastructure,

the streaming of the video media of the video message broadcast by the messaging infrastructure enabling the one or more second devices to render the at least portions of the video media of the video message broadcast in a real-time mode:

(a) while the video media of the video message broadcast is streamed by the first device; and

(b) without first setting up an end-to-end connection over the network between the first device and any of the one or more second devices respectively; and

enabling the one or more second users that have joined the conversation to selectively add to the conversation one or more additional messages or render the one or more additional messages.

79. (New) The method of claim 78, wherein the adding or rendering of at least one of the one or more additional messages occurs during the streaming of the video media of the video message broadcast by the first device.

80. (New) The method of claim 78, wherein the adding or rendering of at least one of the one or more additional messages occurs after the streaming of the video media of the video message broadcast by the first device is complete.

81. (New) The method of claim 78, further comprising organizing the one or more additional messages in a time-order, the one or more additional messages including one or more of the following media types: voice; video; photo; text; location data; sensor data; image; or other data..

82. (New) The method of claim 78, further comprising transcoding the video media of the video message broadcast from one encoding format as streamed by the first device to one or more second encoding format(s) as needed for rendering on the one or more second device(s) respectively.

83. (New) The method of claim 78, further comprising selectively degrading quality level(s) of the video media of the video message broadcast when streaming the video media of the video message broadcast from the messaging infrastructure along one or more delivery route(s) over the network to one or more select second device(s) respectively.

84. (New) The method of claim 78, further comprising adaptively adjusting a number of bits contained in video media payloads used to stream the video media of the video message broadcast by the messaging infrastructure to the one or more second devices, respectively.

85. (New) The method of claim 78, further comprising notifying the second users of the video message broadcast.

REMARKS

In the Action dated May 25, 2023, the Office rejected the claims of the present on the grounds of non-statutory double-patenting in view of certain claims of commonly assigned US Patent Numbers 11,146,516, 10,841,261, and 10,511,557.

The Double Patenting Rejection

In order to expedite prosecution, the Applicant has filed Terminal Disclaimers with respect to US Patent Numbers 11,146,516, 10,841,261, and 10,511,557.

For the record, the Applicant disagrees with the double-patenting rejections. The claims of each of the above-listed patents are *not* directed to initiating a multi-media conversation, initiated by a video message, and the exchange of one or more additional messages generated in response to the rendering of the video message in the real-time mode. On the contrary, each of the above are directed to merely the transmission and routing of a video message, using information from a sending device, that can be rendered in real-time (a) while video media of the video message is streamed by the sending device, and (b) without first setting up any end-to-end connections between the sending device any receiving device rendering in real-time. For at least this reason, the Applicant submits the double-patenting rejections are improper and reserves the right to address the merits of these rejections in the future. Nevertheless, to expedite prosecution as noted above, Terminal Disclaimers have been filed herewith.

New Claims

The Applicant has added new claims 55 through 85 which are of a similar, although not identical, scope as claim 4. The Applicant submits that these claims are allowable for at least the same reasons as non-cancelled claims 4-54.

Conclusion

The Applicant respectfully submits the present application is now in a condition for an allowance. Early notice of this effect is requested.

Should the Office have any continuing questions or concerns related to the present application, the Examiner is encouraged to contact the undersigned at the telephone number provided below to address such questions or concerns quickly and efficiently.

Respectfully submitted,

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: KATIS et al.

Attorney Docket No.: REBLP003C21

Application No.: 17/889,108

Examiner: RAMAKRISHNAIAH,
MELUR

Filed: August 16, 2022

Group: 2651

Title: TELECOMMUNICATION AND
MULTIMEDIA MANAGEMENT METHOD AND
APPARATUS

Confirmation No.: 2115

CERTIFICATE OF EFS-WEB TRANSMISSION

I hereby certify that this correspondence is being transmitted electronically through EFS-WEB to the Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450 on June 29, 2023.

Signed: /Cara Hedin/
Cara Hedin

AMENDMENT A TRANSMITTAL

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

Commissioner:

Transmitted herewith is an Amendment in the above-identified application.

The fee has been calculated as shown below.

	Claims After Amendment		Highest Previously Paid For	Present Extra	Small Entity Rate Fee	Large Entity Rate Fee
Total Claims	65	MINUS	43	22	x 40 = \$880.00	x 100 = \$0.00
Independent Claims	04	MINUS	03	01	x 192 = \$0.00	x 460 = \$0.00
Multiple Dependent Claim Present and Fee Not Previously Paid						
Total					\$1072.00	\$0.00

☒ Applicant(s) believe that no (additional) Extension of Time is required; however, if it is determined that such an extension is required, Applicant(s) hereby petition that such an extension be granted and authorize the Commissioner to charge the required fees for an Extension of Time under 37 CFR 1.136 to Deposit Account No. 50-4481.

☒ Please charge the required fees, or any additional fees required to facilitate filing the enclosed response, to Deposit Account No. 50-4481 (Order No. REBLP003C21).

Respectfully submitted,
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ELECTRONIC PAYMENT RECEIPT

APPLICATION #
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Application Information

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FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
2806	SUBMISSION OF AN INFORMATION DISCLOSURE STATEMENT	104.00	1	104.00
2202	EACH CLAIM IN EXCESS OF 20	40.00	22	880.00
2201	EACH INDEPENDENT CLAIM IN EXCESS OF THREE	192.00	1	192.00
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by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for 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

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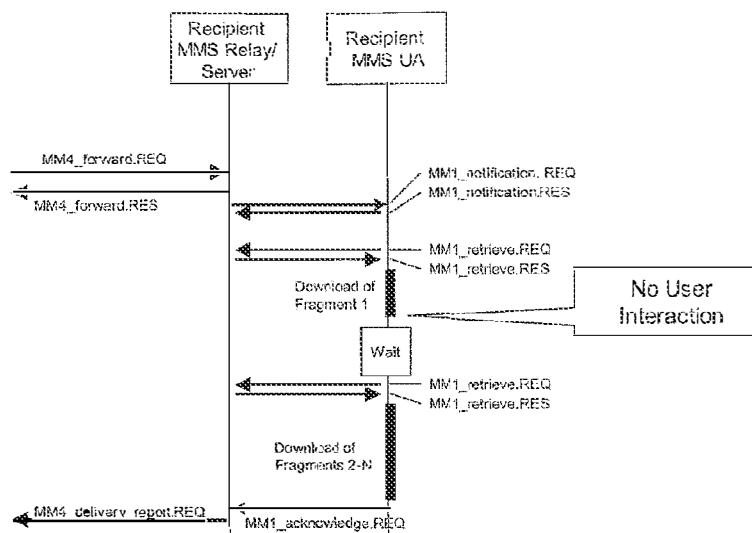
— as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))

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For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: PROVISION OF A MULTIMEDIA MESSAGE



(57) Abstract: The idea of the present invention is to postpone the multimedia message delivery to those terminals, who have activated the download feature, but whose users are not immediately interested in watching the content. It is proposed to fragment a multimedia message into a first segment and in the at least one further segment. For the purpose of the present invention a wait timer is defined for postponing the delivery of the at least one further segment. The first segment is sent to all users and the user decides whether he or she wants to see the remaining parts of the message immediately. The first segment includes attributes allowing the user to make a decision and describing parameters of the waiting process.

WO 2006/050751 A1

Provision of a multimedia message

5 Technical field of the invention

The present invention relates to provision of multimedia messages for telecommunications networks.

- 10 The present application might be used for delivery of messages of a multimedia message service in a wireless telecommunication network with a focus on an efficient usage of the network resources.
- 15 Multimedia Messaging Service MMS is a standard that lets users of MMS supportive mobile phones send and receive messages with formatted text, graphics, photographs, audio and video clips. Video sequences, audio clips and high-quality images can be downloaded to the phone from suitable network sides, transferred to the phone in a MMS message. MMS
- 20 messages can be sent either to another MMS-enabled mobile phone or to an e-mail address and a MMS message can for example be a photo or picture post card annotated with text and/or an audio clip, a synchronized playback of audio, text,
- 25 photo and video emulating a free-running presentation or a video clip. The Multimedia Messaging area covers both the person-to-person communication as well as the content-to-person mobile media sphere.
- 30 Multimedia messaging requires high transmission speeds. In particular the transmission speed is an issue in wireless telecommunication systems. Mobile telecommunications networks, such as the third-generation wireless networks (UMTS Universal Mobile Telecommunication System) or GPRS
- 35 (General Packet Radio System) aim to provide services such as

voice, data, and multimedia via computing devices over network infrastructures. Moreover, existing GSM networks support the MMS technology by means of an additional infrastructure, like a Multimedia Messaging Centre (MMC).

5

Nowadays it is common to provide a node like the MMC being responsible for supporting multimedia messaging in a network. The Multimedia Messaging Center (MMC) implements the network side of Multimedia Messaging Service, and makes it possible
10 to offer multimedia messaging to the mobile subscribers. The MMC manages different sources to/from mobile terminals, supporting a range of interfaces.

In addition to the submission and delivery of mobile
15 multimedia MM message, the MMC also offers functionality to store and forward messages, guarantee delivery, provision of subscriber preferences, customize operator constraints, and track billing information.

20 In the following two nodes of a MMS architecture, which will be further used as an embodiment of the present invention, are described in some details, the MMS User Agent and the MMS Relay/Server.

25 The MMS User Agent resides on a user side. It is an application layer function that provides the users with the ability to view, compose and handle MMS messages (e.g. submitting, receiving, deleting of MMs).

30 The MMS Relay/Server is responsible for storage and handling of incoming and outgoing messages and for transfer of the messages between different messaging systems. Depending on the network model, the MMS Relay/Server may be a single logical element or may be separated into MMS Relay and MMS

Server elements. These may be distributed across different locations in a network or even across different domains.

5 The MMS Relay/Server also provides convergence functionality between External Servers and MMS User Agents and thus enable the integration of different server types across different networks.

Thus, the MMS Relay/Server provides for example the following
10 functionalities: receiving and sending von multimedia messages MM, MM notification to the MMS User Agent; generating delivery reports; routing forward MMs and read-reply reports; address translation; temporary storage of messages; ensuring that messages are not lost until
15 successfully delivered to another MMSE element;

The MMS architecture defines a number of interfaces providing connection to different nodes within the architecture. In the following some interfaces relevant for the present invention
20 are described shortly in respect to Fig.1. Fig.1 depicts schematically a network with a MMS User Agent A communicating with a MMS User Agent B over a corresponding MMS Relay/Server A and MMS Relay/Server B nodes. Moreover, the interfaces, MM1 and MM4 between the certain nodes are shown.

25 MM1 is an interface between the MMS User Agent and the MMS Relay/Server. It is used to submit multimedia messages from MMS User Agent to MMS Relay/Server. Furthermore, over the MM1 the MMS User Agent pulls multimedia messages MM from the MMS
30 Relay/Server. The MMS Relay/Server pushes information about the multimedia messages MMs to the MMS User Agent as part of a multimedia message MM notification. The MM1 is also used to exchange delivery reports between MMS Relay/Server and MMS User Agents.

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The interface between MMS Relay/Server and another MMS Relay/Server is called MM4 and is used to transfer messages between these nodes.

5 A number of applications in the current telecommunication systems are one-to-many applications, where one or a few sources are sending data to many receivers. This kind of transmission is also foreseen in the MMS, wherein a group of users receiving the same content might be defined. For the
10 purpose of defining the groups of users an interface between the MMS Relay/Server and MMS Value Added Service VAS Applications, the MM7 is used. The responsibility of the VASP is to provide the MMS Relay/Server with group messages which are to be distributed amongst the recipients. In some cases,
15 the list of recipients is given in form of a "group id" (like a virtual MSISDN) and the MMSC need to resolve the individual phone numbers of the list members.

In the following an exchange of multimedia messages is
20 described in respect to Fig.2, which shows an originator MMS User Agent UA communicating over MM1 interface with originator MMS Relay/Server, which subsequently communicates with recipient MMS Relay/Server over MM4 interface. The last mentioned node uses MM1 interface to transfer the messages to
25 a recipient MMS UA. Fig.2 presents the technical realisation of MMS service features in terms of abstract messages. The abstract messages can be categorised into transactions consisting of requests and responses. The labelling of the MMS abstract messages follows these conventions, wherein the
30 transactions between the MMS UA and MMS Relay/Server are prefixed with "MM1"; the transactions between the MMS Relay/Servers are prefixed with "MM4"; requests are identified with ".REQ" as a suffix and responses are identified with the ".RES" suffix.

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Multimedia messages are sent from the originator MMS UA to the originator MMS Relay/Server, MM1_submit.REQ, and forwarded to the recipient MMS Relay/Server, MM4_forward.REQ. Before a message is sent to a further node, the reception of the message is acknowledged to the sending node, MM1_submit.RES, MM4_forward.RES. The recipient MMS Relay/Server notifies the recipient MMS UA about the MMS, MM1_notification.REQ, MM1_notification.RES, upon which the recipient MMS UA retrieves the MMS content, MM1_retrieve.REQ. The content retrieval, MM1_acknowledgement.REQ and the read-reply, MM1_read_reply_recipient.REQ are acknowledged by the recipient UA and returned to the originator MMS Relay/Server and eventually to the originator MMS UA.

Hence it appears, that the information exchange according to the MMS architecture is based on the store and forward principle, wherein every node on the transmission way between the communicating nodes stores the received message before said message is forwarded to a subsequent node. This principle ensures a peer-to-peer delivery and in the end a end-to-end delivery of a message. However on the other side said principle is time and resource consuming, in particular in case of transmission of a large-scale multimedia message to a group of users.

Currently, more and more operators offer content to person or application to person messaging services, also called MMS-Push services. Such services are group services, which distribute the same information to a large set of registered terminals.

The penetration rate of MMS compliant terminals is increasing, therefore it is foreseen, that also the number of potentially registered terminals per service is increasing. Also the multimedia capabilities, such as resolution of the

displays are increasing, which means that the messages itself can grow in size on average with high peak message sizes. This evolution leads to some problems with resource provision, because an increased amount of data is to be
5 transmitted over the network. If additionally the increasing number of group services is considered, then the issue of resource provision seems to be even more critical.

Currently a number of MMS retrieval modes are defined. MMS
10 allows the retrieval of MMs in a manual or automatic fashion. The retrieval mode is a terminal behavior and is based on different factors. These factors might include message size, MMS User Agent configuration, recommendation from the MMS Relay/Server for retrieval and the originator of a multimedia
15 message.

In manual mode the end user is made aware of the MM notification and is allowed to make a decision whether to download the MM or not. In this mode the end user is aware of
20 an MM notification.

In automatic mode, hereinafter also called auto-download, the retrieval of a multimedia message MM and its storage to local memory is accomplished without any interaction with the end
25 user. Depending on terminal implementation, the MM may be displayed to the end user with or without any pre-notice.

The auto-download provides a more convenient access of the user to the received multimedia messages MMSes since the user
30 get the multimedia message automatically into their terminals. If the user has not recognised the reception of the pre-notice notification, which might be implemented as New-Message Alert, the terminal starts retrieving the message on its own. Unfortunately, this type of download consumes the
35 same network resources as the retrieval procedures of

terminals with users who recognised the alert message and requested the downloading immediately. That results in the problem, that the downlink transmission path is loaded with traffic for users, who have recognise the notification message and are waiting for the actual content, but also with traffic for users, who have not recognised the notification message, but have activated the auto-download function, which means that they do not want or they are not able to watch the multimedia message by receiving the notification.

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Summary and description of the invention

It is an object of the present invention to provide a solution for an efficient usage of network resources during transmission of multimedia messages.

15

The invention is disclosed in claims 1, 12, 20 and 21. Advantageous embodiments are described in the dependent claims being disclosed in the corresponding parts of the description.

20

The basic idea of the present invention is to provide a solution for a delivery of a multimedia message for a communication network having a user part and a network part wherein the network part is responsible for distribution of the multimedia message to at least one user part and the method comprising the following steps to be performed by the network part. At first the network part provides a multimedia message, which is to be distributed. Subsequently a fragmentation procedure is performed for fragmenting a message into a first segment and at least one further segment wherein the first segment includes information about a possibility of time-delayed reception of the at least one further segment of the multimedia message and a reference to the at least one further segment. Subsequently the first

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segment is sent to the user part and a waiting process is started according to the information about the possibility of the time-delayed reception of the at least one further segment of the multimedia message. Upon an event message is received, the at least one further segment is sent to the user. Herein it is to be emphasized, that the implementation of the event might be performed in any preferably and suitably way. For example it might be a message received from the network side or from the user. Furthermore it might be for example an expiration of a timer.

Further it is proposed to have a solution on the user part in the above-defined network, wherein the user part receives a first fragment of the multimedia message including information about a possibility of time-delayed reception of at least one further segment of the multimedia message and a reference to the at least one further segment. Hereby it is to be mentioned that the information about the possibility of the time-delayed reception means that all users receive the first fragment and the user decides considering said information whether the at least one further segment is to be downloaded immediately or time-delayed.

Subsequently a notification procedure for receiving the at least one further segment of the multimedia message is performed. Said notification procedure is to be performed either user-driven by means of active requesting the downloading of the remaining segments or time-delayed by means of generation an automatically requesting of the downloading of the remaining segments, for example by consideration of a timer. Finally an appending procedure for appending the received fragments into the multimedia message is performed.

Furthermore it is proposed to have a network part adapted to
 deliver a multimedia message for a communication network
 having a user part and said network part wherein said network
 part is responsible for distribution of the multimedia
 message to at least one user part. Said network part has a
 provision logic providing a multimedia message that is to be
 distributed. Herein the multimedia message might be either
 generated in the network part or received from an external
 node, for example a server. Further it has a fragmentation
 controller for fragmenting a message into a first segment and
 at least one further segment wherein the first segment is
 adapted to include information about a possibility of time-
 delayed reception of the at least one further segment of the
 multimedia message and a reference to the at least one
 further segment. The first segment is sent by a sender for
 sending the first segment to the user part. A processor is
 used which is adapted to perform a waiting process according
 to the information about the possibility of the time-delayed
 reception of the at least one further segment of the
 multimedia message. Furthermore the network part has a sender
 for sending the at least one further segment of the
 fragmented multimedia message upon receiving an event
 message.

Moreover it is proposed to have a user part adapted to
 deliver a multimedia message for a communication network
 having said user part and a network part wherein the network
 part is responsible for distribution of the multimedia
 message to at least one user part. Said user part has a
 receiver for receiving a first fragment of the multimedia
 message including information regarding a waiting process for
 a possibility of time-delayed reception of at least one
 further segment of the multimedia message and a reference to
 the at least one further segment. Further it has a processor
 for performing the waiting process according to the

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information about the possibility of the time-delayed reception of the at least one further segment of the multimedia message. A controller for performing a notification procedure for receiving the at least one further
5 segment of the multimedia message is also a part of the user part. The received fragments are appended into the multimedia message by means of an appendix logic.

The present invention discloses also a system adapted to
10 deliver a multimedia message for a communication network having a user part and a network part wherein the network part is responsible for distribution of the multimedia message to at least one user part and with the network part according to claim 19 performing the method according to
15 claim 1 and communicating with the at least one user part according to claim 20 performing the method according to claim 12.

The advantage of the present invention is that the overall
20 service perception would be increased, because those terminals with waiting users are served first and those terminals with background auto-download mode are served at a later stage, because the download for this group is to be postponed to a later stage.

25 In the following preferred examples of the present invention shall be described in detail, in order to provide the skilled person with thorough and complete understanding of the invention, but these detailed embodiments only serve as
30 examples of the invention and are not intended to be limiting. The following description shall make reference to the enclosed drawings, in which

Fig.1 shows a schematic representation of a multimedia
35 messaging network architecture,

Fig.2 shows a schematic representation of messages exchange according to state of the art,

5 Fig.3 shows a flowchart of an embodiment of the present invention for delivery of a multimedia message in the network part,

Fig.4 shows a flowchart of an embodiment of the present invention for delivery of a multimedia message in the user part,

Fig.5 shows a schematic representation of messages exchange according to one embodiment of the present invention with a timer located in the user part,

Fig.6 shows a schematic representation of messages exchange according to one embodiment of the present invention with a timer located in the network part,

20 Fig.7 shows a schematic representation of messages exchange according to one embodiment of the present invention with a user's interaction during running timer.

25 It should be noted that the terms "relay", "user", "server", or generally "node" in the context of the present invention refers to any suitable combination of hardware and software for providing a predetermined functionality in the communication network. In this way, said terms generally refers to a logical entity that can be spread out over several physical nodes of the network, but can also refer to a physical entity located in one physical node.

Furthermore it should be noted that the term multimedia messaging refers to any large-scale message, which might be

fragmented in a certain way. A multimedia message refers for example to music, videotext or video-clips, wherein one message can contain a number of multimedia file and the fragmentation is done in respect to the included files.

5 Hence, the invention is not restricted to the Multimedia Message Service, which merely is used as a preferred embodiment.

Preferably, the communication network is a mobile
10 communication network, e.g. is a mobile communication network operating according to GPRS (General Packet Switched Radio) or UMTS (Universal Mobile Telephone System) or GSM. However, the present invention is also applicable in any communication network providing multimedia messaging.

15 The idea of the present invention is to postpone the multimedia message delivery to those terminals, who have activated the download feature, but whose users are not immediately interested in watching the content. Thus, in the
20 frame of the present invention a new user group is defined. This group includes users, who activated the auto-download feature, but who are not immediately interested in the content. This kind of users activates the auto-download mode, because they want to have the content available in their
25 terminal, although they do not want or can watch it immediately. Since those users have activated the auto-download feature, they also expect some play-out immediately or at least quickly, that means they do not want to spend time for downloading. The difference to users with the manual
30 retrieval mode is that they download the multimedia message by means of an explicit requesting the downloading.

In order to achieve the goal the following solution is presented. Herein a differentiation is made regarding the
35 place of performance certain steps. The differentiation is

made between a network part and a user part. The steps to be performed in the network side are described in the following in respect to Fig.3.

5 The network part might be implemented in any suitable combination of hardware and software being able to perform hereafter described steps. In this way, said terms generally refers to a logical entity that can be spread out over several physical nodes of the network, but can also refer to
10 a physical entity located in one physical node, like for example the MMS Relay/Server.

The user part is to be implemented preferably on the user equipment.

15

According to Fig.3 a received multimedia message, S31 is to be subdivided into two or more fragments, S32. In the preferred embodiment it is proposed to consider multimedia messages being foreseen for a group of user. However the
20 invention is not restricted to this kind of messages. Thus, the present invention is also applicable to a multimedia message for a single user.

In a preferred embodiment it is proposed that the
25 fragmentation procedure includes the organization of the multimedia components within the message for progressive play-out. The first segment includes further attributes of the multimedia message specifying behaviour of the user part receiving the multimedia message. The receiver behaviour
30 describes the process to get the next fragment. It describes, if the receiver needs to fetch the next fragment by itself or it just needs to wait until the network provides the next fragment. Moreover it might be for example information regarding mechanisms to download the remaining fragments,

which are an indication to wait for the network trigger or value or value-range for the user's terminal wait timer or URLs or URL construction rules for the next fragments or optionally a unique identifier to relate further fragments to the first fragments.

Preferably, the message length and a prediction of group size mainly determine the waiting time between the first and the further fragments. In case of subscription services (services, where a terminal needs to register with its identifier with the network), the network knows exactly the size of the total group. Important for the calculation of the wait timer is share of users, who would like to see the message immediately. For example a following scenario is given: total group size: 100.000 users; expected share of users, who are interested to see the clip immediately: 40%, group estimation to calculate the wait time: 40.000 users, then for this example, the waiting time would depend on "How long does it take, that 40.000 users retrieve the entire message (e.g. 3Mbyte) and 60.000 users only retrieve the first fragment. (e.g. 0.5Mbyte)."

Preferably it is proposed that the length of the first fragment of the message is chosen in such a way, that the terminal can download a next fragment, while playing-out the first segment. This principle can be repeated for all further parts of the message. It is to be noted that the dimensioning of the first fragment depends also on the capabilities of the access network.

Furthermore it is proposed that the further attributes are included in a header, which is inserted into the first segment. Said header specifies the fragmentation and includes a unique reference to the next message fragment.

The result of the fragmentation procedure is a multimedia message being subdivided in a first segment and in at least a further segment. The number of segments might depend on message size, the audience sizes and the operator's
5 preference for this procedure.

Furthermore in case the network part sends a segment during a congestion of the network then the segment might include information that the remaining part is in the subsequent
10 segments. Thus, the description of a previous fragment or the total message may be part of a later fragment.

Upon the fragmentation procedure is finished, the network part sends a first segment to the user, S33. It is to be
15 noted, that preferably the notification message is sent to a group of users being interested in receiving the message. Possible methods of building users' group for a certain kind of multimedia messages are out of scope of the present invention. The notification message in this context might be
20 realised in any suitably way. In one embodiment the notification message is the first segment being sent to the group of users. Alternatively it is proposed that the network part sends a notification message and upon receiving an answer from a user the first fragment of the message is to be
25 sent. The advantage of the last mentioned solution is a simpler integration into systems having a separated notification message implemented.

It is proposed that the network part determines the waiting
30 process and when the first segment is sent out the waiting process is started. In the frame of the waiting process a timer is started and upon elapsing of said timer an event message is generated to trigger sending of the at least one further segment of the multimedia message. In respect to
35 Fig.3 a waiting process is started in step S34. In this phase

the network part waits for receiving an event requesting sending of the remaining fragments, S35, wherein the implementation is to be realised in any suitable way. In one embodiment it is proposed to have a timer running on the network side. The elapsing of said timer without receiving any request from the user results in an event for starting with the sending of the remaining segments. In a further embodiment it is proposed that the network part waits for receiving a request message from the user part. Herein the timer is implemented on the user side and upon expire of the timer a request message is sent to the network part unless there is an interaction from the user in the meantime then the request message is sent before the expiration of the timer.

15

When the network part determines a waiting process this is to be sent with the first segment to the user part. Therefore the first frame must contain a description of the waiting procedure, fixed pre-determined waiting time or random waiting time or the retrieval procedure and the object to retrieve (e.g. URL). In case a random waiting time procedure, the UE determines the waiting time randomly by itself. A minimal and maximal waiting time (or an offset and a random window) is specified. Further more the time might be a description of a specific trigger message. Preferably the waiting timer is determined by a length of the multimedia message and a prediction of a group size of user parts receiving the multimedia message.

Finally the remaining fragments of the multimedia message are sent to the users, S36.

In the following the steps are described which are to be performed on the user part in respect to Fig.4.

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On the user part the terminals download the first fragment of a multimedia message, S41, wherein the first fragment includes further attributes of the multimedia message specifying downloading process of said multimedia message.

- 5 Herein the information regarding downloading process includes an indication to wait for the network trigger or value or value-range for the user's terminal wait timer or URLs or URL construction rules for the next fragments or optionally a unique identifier to relate further fragments to the first
10 fragments.

- Further it is proposed that the information regarding downloading process includes information about an implementation of a timer for triggering a downloading of the
15 at least one further segment. Thus, the received first segment includes the information regarding the content of the message and the waiting process.

- The proposed timer might be a random wait timer or a
20 description of a specific trigger message. The implementation of the timer might be either on the user part or in the network part and the user part receives a notification about the expiry of the timer.

- 25 Furthermore it is proposed that a user part which decides during the waiting process to download the at least one further segment sends an explicit request for downloading the at least one further segment.

- 30 Furthermore the first segment might include further information regarding the mechanisms to download the remaining fragments, like for example an indication to wait for the network trigger or value or value-range for the user's terminal wait timer or URLs or URL construction rules

for the next fragments or optionally a unique identifier to relate further fragments to the first fragments.

In case a user would like to watch content on a later stage,
5 the users' terminals need to process the received first part to determine the handling of this message. As aforementioned the first part of the message may contain different information. For example regarding the implementation of the timer before downloading the remaining parts. This might be
10 for example either a random wait time or a description of a specific trigger message. In particular the timer is to be set in a way that on one side it does not last too long before a request for downloading is sent. On the other side with the timer delay it should be achieved that a parallel downloading
15 of multimedia messages for users being immediately interested and for those who are not, is avoided.

Returning to Fig.4, a user part receives the first fragment and decides to start the waiting process and according to the
20 current availability of the user, a notification procedure, S42 is started. Herein it is to be distinguished whether the notification is user-driven, S43 or time-delayed, S44. Herein is to be noted, that the user-driven notification might be either performed immediately after receiving the first
25 segment or during a running timer.

The succeeding fragments are downloaded directly only by those terminals, which have users being interested in an immediate viewing of the message, S43. The immediately
30 ability of the user to watch a content is accomplished by performing an interaction with the terminal. Herein it is to be mentioned that preferably upon the receipt of the first fragment the rendering process has been started since the first message includes already parts of the multimedia
35 message. Moreover, a user-driven notification procedure is

performed in case a user does not react immediately but delayed during the running timer. That means is proposed that a user, who does not immediately react after receiving the first fragment, has also a possibility to react during the running timer. That means in case a user does not react immediately and a timer has been started the user should not be bound by the running timer, but a possibility is to be provided to request the downloading of the remaining fragments also during the waiting period. Preferably, it is proposed that a user by means of a user interface sends a request message to the network part.

The remaining terminals, which are not interested immediately in view the multimedia message wait with the downloading of the remaining fragments by starting a time-delayed notification procedure, S44 and by waiting until the timer expires. The time-delayed procedure might be realized in any suitably way. In one embodiment it is proposed to have a timer being started on the user side. The elapsing of the timer causes a notification to the user for requesting the remaining fragments. In a further embodiment it is proposed to start a timer in the network part and upon elapsing the timer, the network part might either starts to send the remaining parts of the multimedia message or it might sends a notification message to the user in order the user requests the remaining parts.

In the last step, S45 the user's terminal appends the received fragments of the multimedia message. Herein the appending of a second to a first fragment might happen while the first part is already displayed on the screen.

In the following a description of a preferred embodiment of the present invention in accordance with MMS is provided.

In this embodiment it is proposed that a node, called Multimedia Message Service Centre MMSC fragments the Multimedia Message into several fragments. Said MMSC server might receive the MMS message over the MM7 interface from an external network. Each fragment becomes an individual file, which can be addressed via an URL. The MMSC indicates the fragmentation and also the link to the next fragment in the first fragment. The MMS also indicates the trigger mechanism, which might be a part of the first fragment for starting downloading the remaining fragments of the MMS.

It is the task of the user's terminal to append the received fragments of a message to the first fragment, wherein the appending of a second to a first fragment might happen while the first part is already displayed on the screen. It is preferably that the length of the first fragment is roughly determined by the download time of the next fragment. This approach enables a smooth progressive download since it is possible to finish the download of the next fragment before finishing the play-out of the first segment.

In the following, the individual steps of the distribution process in respect to Fig. 5, Fig.6 and Fig.7 are described in more details. The figures present a chronological exchange of messages between a recipient MMS Relay/Server and a recipient MMS UA.

In the first step the recipient MMS Relay/Server receives the group MMS message. In Fig.5 it is received by means of MM4_forward.REQ and MM4_forward.RES messages, but as mentioned before it can be also by means of the MM7 interface for communication with other domains. Upon receiving the MMS message the recipient MMS Relay/Server fragments the message into several smaller parts. Each fragment may be retrieved by recipient MMS UA via different URL.

In a subsequent step the recipient MMS Relay/Server sends a notification message, MM1_notification_REQ and MM1_notification_RES, to all User Agents in that group. The
5 notification message contains a URL to the first fragment of the MMS.

Hence, upon receiving the notification message, the recipient MMS UA starts downloading the first fragment in case the
10 auto-download option is activated. This is done by means of exchanging the messages, MM1_retrieve.REQ and MM1_retrieve_RES. Preferably, the user is notified about the downloading of a first fragment via the User Interface.

15 In this phase the recipient MMS UA might react in two different ways. In case the user is interested in receiving the entire MMS message immediately it sends directly a request for the remaining fragments. This reaction is shown in Fig. 7 by means of the second the second MM1_retrieve.REQ
20 and MM1_retrieve_RES exchange being sent without any time delay. Thereafter the download of fragments 2-N is carried out. Thus, the user agent, recipient MMS UA starts to download the remaining fragments immediately. The fragments may be downloaded one by one before starting the rendering
25 process or even in a progressive download way. The received fragments may be merged locally in the user's terminal as the user has the ability to append the received information of further fragments to the first file. Optionally, the remaining part of the multimedia message might be streamed to
30 the user. In this case the content is provided via a streaming server and the UE uses automatically the streaming application in the phone to render the next fragments. Optionally, the content download via MMS is completed some time after the streaming transmission. This option (and the
35 configuration) depends on operator preferences.

Alternatively before sending a direct request, the user might want to process the header information for finding flags for the fragmented MMS delivery in order to take a decision
5 whether to download directly or time-delayed.

However, if there is no user interaction for a defined time, then the user agent has processed the header information. The header describes available mechanisms to download the
10 remaining fragments of the multimedia message. Herein two different choices might be provided.

The first possibility is that the user's terminal starts a timer. This alternative is depicted in Fig.5 showing a
15 waiting timer on the recipient MMS UA side. After a timer in the user's terminal is expired, the retrieval of the remaining parts is started. The timer value can be random chosen by the user agent or be a part of the header information. In the first case, preferably the upper bound
20 for the random interval is contained in the header. In the later case the timer value is be explicitly contained in the header. In this case, the MMSC or recipient MMS Relay/Server may need to provide each user agents with its own timer-value within the first message fragment.

25 The header also contains the URL(s) of the next fragments. The URLs may be given explicitly (one or more URLs) or a method is to be provided how to construct the URL, whereby the sequence number is part of the URL.

30 In an alternatively embodiment it is proposed to have the waiting process being triggered by the network part as it is depicted in Fig.6 showing a waiting timer on the recipient MMS Relay/Server side. In this case the network sends another
35 notification message (i.e. SMS) to trigger the downloading

process of the remaining fragments, MM1_notification_REQ and MM1_notification RES. The notification message contains a unique reference to the fragmented message. Since the user keeps track on the received messages, it is known to the user
5 that this is a subsequent fragment. And therefore the user agent appends the received fragment to the previous fragment.

Subsequently in all cases the downloading of the fragments 2-N is performed. Closing, the receipt of the entire message is
10 acknowledged to the recipient MMS Relay/Server, MM1_acknowledge.REQ and subsequent to the sending node, herein by means of MM4 delivery report.REQ.

The preferred embodiment was based on the MMS although it
15 should not be seen as a restriction to the present invention. In fact the proposed method can be used for any kind of multimedia message which can be fragmented. For instance the method can be used for WAP-Push messages. Moreover the presented embodiments show the applicability of the present
20 invention for submission of multimedia messages to a group of users. However, the same procedure applies also for submission of a multimedia message to a single user.

However these are merely examples showing that by means of
25 interfaces additional information might be queried to ensure a better performance of the resource management procedure according to the present invention.

Claims

1. Method for delivery of multimedia message for a
5 communication network having a user part and a network
part wherein the network part is responsible for
distribution of the multimedia message to at least one
user part and the method comprising the following steps
to be performed by the network part
10 - providing a multimedia message to be distributed
and,
 - performing a fragmentation procedure for
fragmenting a message into a first segment and at
least one further segment wherein the first
15 segment includes information about a possibility
of time-delayed reception of the at least one
further segment of the multimedia message and a
reference to the at least one further segment and,
 - sending the first segment to the user part and,
20 - performing a waiting process according to the
information about the possibility of the time-
delayed reception of the at least one further
segment of the multimedia message and,
 - upon receiving an event message sending the at
25 least one further segment of the fragmented
multimedia message.
2. Method according to claim 1 wherein the multimedia
message consists of one or several data files being
30 constricted in a way to allow progressive playout.
3. Method according to claim 1 wherein the first fragment
includes further attributes of the multimedia message

specifying behaviour of the user part receiving the multimedia message.

4. Method according to claim 3 wherein a length of the
5 first fragment is determined by the download time of the at least one further segment.
5. Method according to claim 1, 3, 4, 5 or wherein in the fragmentation procedure it is considered that the first
10 fragment contains at least a full header of the multimedia message.
6. Method according to claim 1 wherein the waiting process includes starting of a timer and upon elapsing of said
15 timer an event message is generated to trigger sending of the at least one further segment of the multimedia message.
7. Method according to claim 1 wherein the waiting process
20 is a waiting state for receiving a request message from the user part.
8. Method according to claim 1 wherein the waiting process is a wait timer being determined by a length of the
25 multimedia message and a prediction of a group size of user parts receiving the multimedia message.
9. Method according to claim 3, 6, 7 or 8 wherein the first segment includes information about an implementation of
30 a timer for triggering a downloading of the at least one further segment.
10. Method according to claim 9 wherein the timer is a random waiting timer or a description of a specific
35 trigger message.

11. Method according to claim 9 or 10 wherein the timer is implemented on the network part.
- 5 12. Method for delivery of multimedia message for a communication network having a user part and a network part wherein the network part is responsible for distribution of the multimedia message to at least one user part and the method comprising the following steps
- 10 to be performed by the user part
- receiving a first fragment of the multimedia message including information regarding a waiting process for a possibility of time-delayed reception of at least one further segment of the multimedia message and a reference to the at least one further segment and,
 - 15 - performing the waiting process according to the information about the possibility of the time-delayed reception of the at least one further segment of the multimedia message and,
 - 20 - performing a notification procedure for receiving the at least one further segment of the multimedia message and,
 - performing an appending procedure for appending
 - 25 the received fragments into the multimedia message.
13. Method according to claim 12 wherein the first fragment includes further attributes of the multimedia message specifying downloading process of the multimedia
- 30 message.
14. Method according to claim 12 or 13 wherein the information regarding downloading process includes

information about an implementation of a timer for triggering a downloading of the at least one further segment.

- 5 15. Method according to claim 14 wherein the timer is
 a random wait timer or a description of a specific
 trigger message.
16. Method according to claim 12, 13 or 14 wherein the
10 timer is implemented in the user part.
17. Method according to claim 12, 13 or 14 wherein the
 timer is implemented in the network part and the user
 part receives a notification about the expiry of the
15 timer.
18. Method according to one of the claims 12 to 17
 wherein during the waiting process a user part sends an
 explicit request for downloading the at least one
20 further segment.
19. Network part adapted to deliver a multimedia
 message for a communication network having a user part
 and said network part wherein said network part is
25 responsible for distribution of the multimedia message
 to at least one user part and has
- provision logic providing a multimedia message
 that is to be distributed and,
 - fragmentation controller for fragmenting a message
30 into a first segment and at least one further
 segment wherein the first segment is adapted to
 include information about a possibility of time-
 delayed reception of the at least one further

- segment of the multimedia message and a reference to the at least one further segment and,
- sender for sending the first segment to the user part and,
 - 5 - processor for performing a waiting process according to the information about the possibility of the time-delayed reception of the at least one further segment of the multimedia message and,
 - sender sending the at least one further segment of
 - 10 the fragmented multimedia message upon receiving an event message.
20. User part adapted to deliver a multimedia message for a communication network having said user part and a
- 15 network part wherein the network part is responsible for distribution of the multimedia message to at least one user part and with
- receiver for receiving a first fragment of the multimedia message including information regarding
 - 20 a waiting process for a possibility of time-delayed reception of at least one further segment of the multimedia message and a reference to the at least one further segment and,
 - processor for performing the waiting process
 - 25 according to the information about the possibility of the time-delayed reception of the at least one further segment of the multimedia message and,
 - controller for performing a notification procedure for receiving the at least one further segment of
 - 30 the multimedia message and,
 - appendix logic for appending the received fragments into the multimedia message.

21. System adapted to deliver a multimedia message for
a communication network having a user part and a network
part wherein the network part is responsible for
distribution of the multimedia message to at least one
5 user part and with the network part according to claim
19 performing the method according to claim 1 and
communicating with the at least one user part according
to claim 20 performing the method according to claim 12.

10

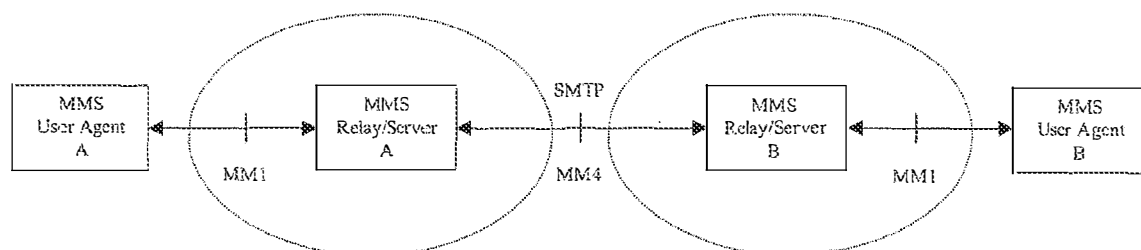


Fig.1

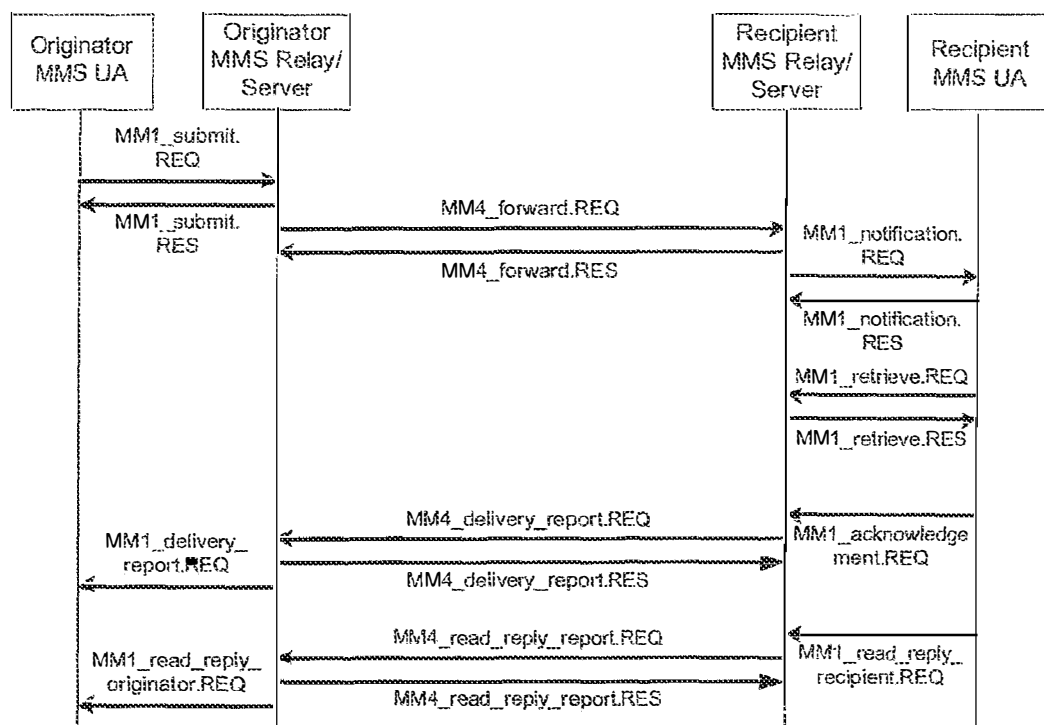


Fig.2

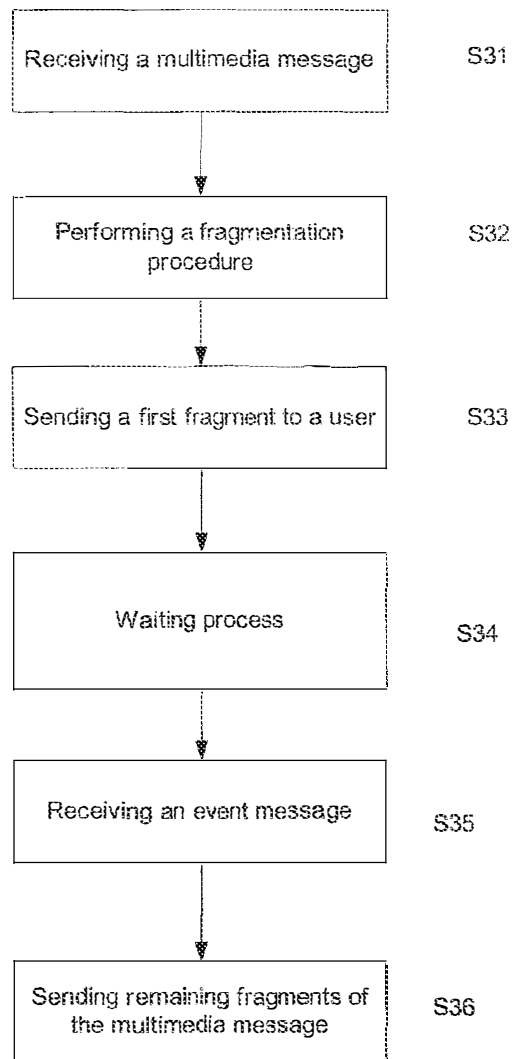


Fig.3

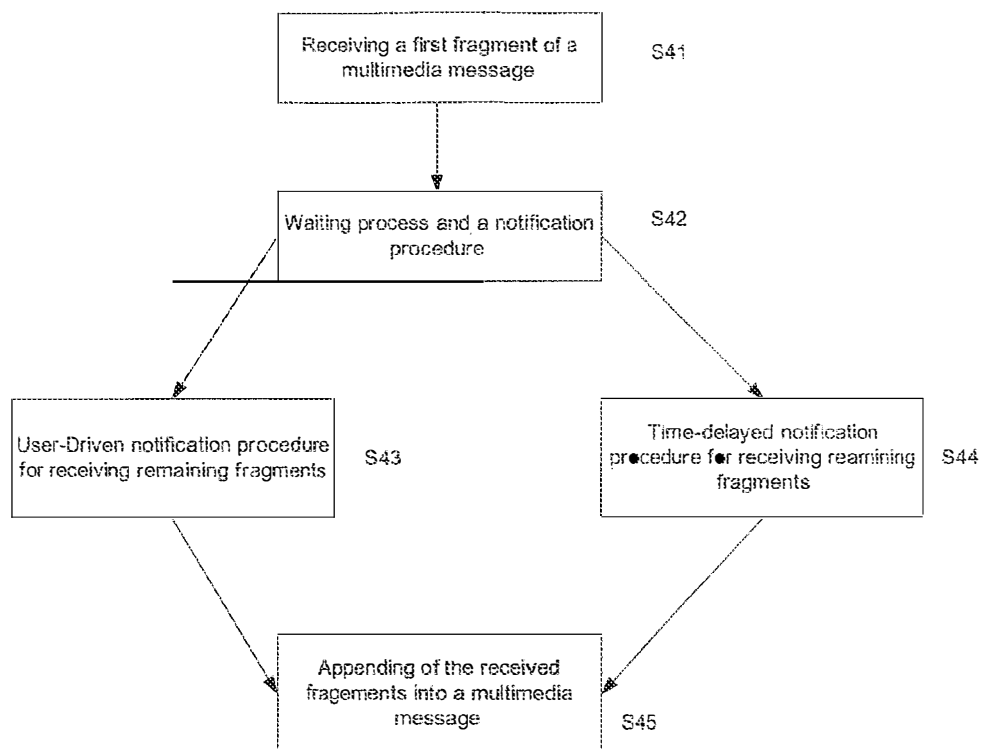


Fig.4

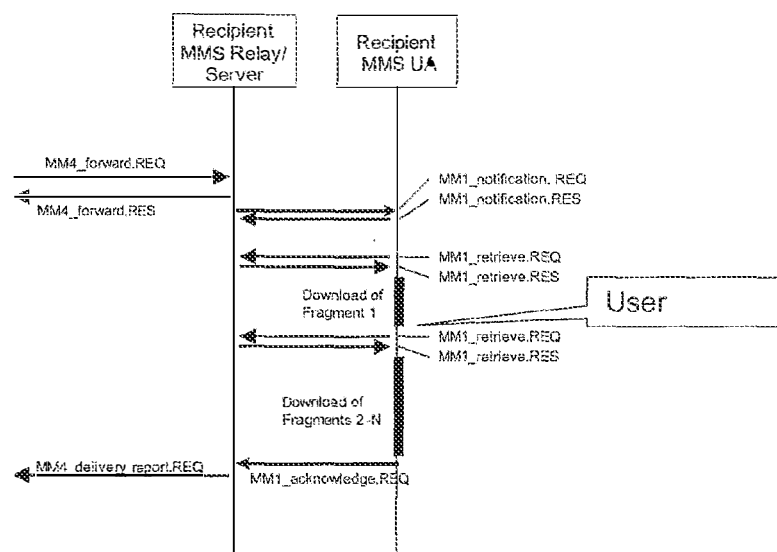


Fig.7

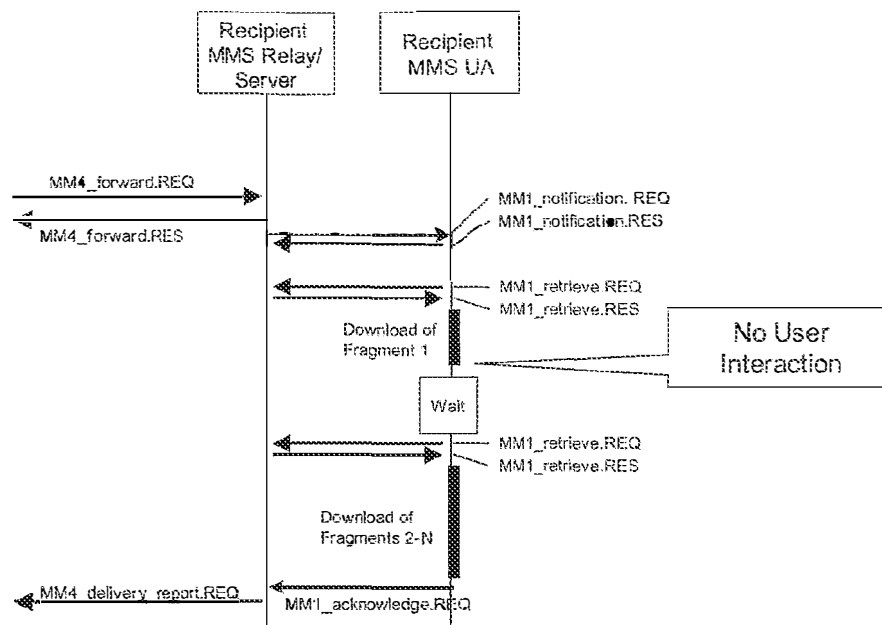


Fig. 5

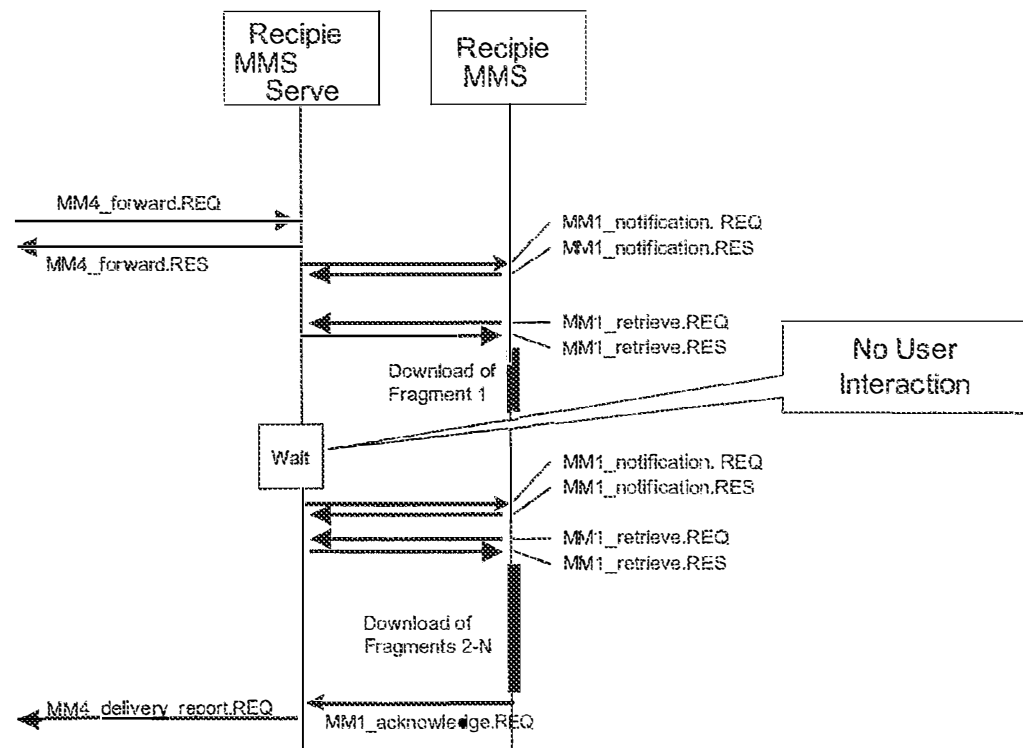


Fig. 6

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/012881

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04Q7/22

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)

IPC 7 H04Q

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

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

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2004/056067 A (KONINKLIJKE PHILIPS ELECTRONICS N.V; SHAO, XIAOLING; TU, JIAWEN; FENG,) 1 July 2004 (2004-07-01) page 3, line 20 - page 4, line 7 page 5, line 19 - page 7, line 20	1-21
X	US 2003/227916 A1 (PAILA TONI ET AL) 11 December 2003 (2003-12-11) paragraph '0004! paragraph '0040! - paragraph '0042! paragraph '0045!	1-21
X	US 2002/044634 A1 (ROOKE MICHAEL ET AL) 18 April 2002 (2002-04-18) paragraph '0006! - paragraph '0010! paragraph '0037! - paragraph '0046!	1-21

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

☒ Patent family members are listed in annex.

* Special categories of cited documents:

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"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

"T" 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

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"&" document member of the same patent family

Date of the actual completion of the international search

9 June 2005

Date of mailing of the international search report

20/06/2005

Name and mailing address of the ISA

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Fax: (+31-70) 340-3016

Authorized officer

Rothluebbers, C

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/012881

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2004056067 A	01-07-2004	CN 1509104 A	30-06-2004
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		AU 4033099 A	02-11-2000
		EP 1169827 A1	09-01-2002
		JP 2002542548 T	10-12-2002



ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
17/889,108

RECEIPT DATE / TIME
06/29/2023 01:35:40 PM ET

ATTORNEY DOCKET #
REBLP003C21

Title of Invention

TELECOMMUNICATION AND MULTIMEDIA MANAGEMENT METHOD AND APPARATUS

Application Information

APPLICATION TYPE Utility - Nonprovisional Application
under 35 USC 111(a)

PATENT # -

CONFIRMATION # 2115

FILED BY Cara Hedin

PATENT CENTER # 62361569

FILING DATE 08/16/2022

CUSTOMER # 76743

FIRST NAMED
INVENTOR Thomas E. KATIS

CORRESPONDENCE
ADDRESS -

AUTHORIZED BY James Rose

Documents

TOTAL DOCUMENTS: 12

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
REBLP003C21_1449_5.pdf	1	Information Disclosure Statement (IDS) Form (SB08)	26 KB
Warning: This is not a USPTO supplied IDS fillable form. Data in the form cannot be automatically loaded to other USPTO systems.			
3rd_Generation_Ref.pdf	94	Non Patent Literature	747 KB
Universal_Mobile_Ref.pdf	75	Non Patent Literature	804 KB
Liu_Ref.pdf	12	Non Patent Literature	230 KB
Apostolopoulos_Ref.pdf	35	Non Patent Literature	291 KB

Building_Internet_Ref.pdf		16	Non Patent Literature	234 KB
WO2006050751A1.pdf		37	Foreign Reference	3728 KB
REBLP003C21_Amendment_A.pdf		16	-	88 KB
REBLP003C21_Amendmen t_A-A....pdf	(1-1)	1	Amendment/Request for Reconsideration-After Non- Final Rejection	20 KB
REBLP003C21_Amendmen t_A-CLM.pdf	(2-14)	13	Claims	73 KB
REBLP003C21_Amendmen t_A-REM.pdf	(15-16)	2	Applicant Arguments/Remarks Made in an Amendment	23 KB
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REBLP003C21_IDS_5.pdf		2	Transmittal Letter	25 KB

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DOCUMENT

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Liu_Ref.pdf	D528791A65B8F285157472D769C5CC5F1F7491FDF5C34E9753 9E7BF882F70EB5222D5BBD5443A113AE39C5FD1F3CE538AF8 870B9A6A557E893250768CB661EE4
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National Stage of an International Application under 35 U.S.C. 371

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

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Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Atty Docket No.	REBLP003C21
	Application No.:	17/889,108
	Applicant	Voxer IP LLC
	Filing Date	August 16, 2022
	Group	2651
		Page 1 of 1
	Date Submitted	June 29, 2023

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
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	2.	2003/0154300	08/14/03	Mostafa			02/08/02
	3.	2004/0225728	11/11/04	Huggins et al.			05/05/03
	4.	2004/0057420	03/25/04	Curcio et al.			02/18/03
	5.						
	6.						
	7.						

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-Class	Translation	
							Yes	No
	8.	WO2006050751	05/18/06	PCT				
	9.							

Other Documents

Examiner Initial	No.	Author, Title, Place (e.g. Journal) of Publication, Date
	10.	Apostolopoulos, "Video Streaming: Concepts, Algorithms, and Systems", Mobile and Media Systems Laboratory, HP Laboratories, Palo Alto, HPL-2002-260, September 18, 2002, 35 pages.
	11.	"3 rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and Codecs (Release 6), June 2004, 94 pages.
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	13.	"Universal Mobile Telecommunications System (UMTS); Multimedia Messaging Service (MMS), Functional description; Stage 2 (3GPP TS 23.140 version 4.2.0 Release 4), March, 2001, 75 pages.
	14.	Building Internet Firewalls, Chapter 6, Packet Filtering, "6.3 What Does a Packet Look Like", https://docstore.mik.ua/orelly/networking/firewall/ch06_03.htm , downloaded from the internet on May 18, 2023.

Examiner	Date Considered
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Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<i>Index of Claims</i> 	Application/Control No. 17/889,108	Applicant(s)/Patent Under Reexamination KATIS et al.
	Examiner MELUR RAMAKRISHNAIAH	Art Unit 2651

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

CLAIMS									
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☒ T.D. ☐ R.1.47									
CLAIM		DATE							
Final	Original	05/07/2023	07/16/2023						
	1	-	-						
	2	-	-						
	3	-	-						
1	4	✓	=						
2	5	✓	=						
3	6	✓	=						
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	42	-	-						

<i>Index of Claims</i> 	Application/Control No. 17/889,108	Applicant(s)/Patent Under Reexamination KATIS et al.
	Examiner MELUR RAMAKRISHNAIAH	Art Unit 2651

CLAIM		DATE									
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Search Notes 	Application/Control No. 17/889,108	Applicant(s)/Patent Under Reexamination KATIS et al.
	Examiner MELUR RAMAKRISHNAIAH	Art Unit 2651

CPC - Searched*		
Symbol	Date	Examiner
H04L65/403, 5/10, 65/764, 65/752, 51/42, 65/1083, 65/4015, 61/2503, 51/216	05/07/2023	mrk
H04N7/147, 7/15	05/07/2023	mrk
H04M 1/64, 3/53, 11/00, 3/5307	05/07/2023	mrk
H04W 4/12; G06F 15/16	05/07/2023	mrk

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
379	93.01	05/07/2023	mrk
Search updated		07/16/2023	mrk

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

Search Notes		
Search Notes	Date	Examiner
PE2E	05/07/2023	mrk
PE2E	07/16/2023	mrk

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<i>Search Notes</i> 	Application/Control No. 17/889,108	Applicant(s)/Patent Under Reexamination KATIS et al.
	Examiner MELUR RAMAKRISHNAIAH	Art Unit 2651

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
All classes & subclasses listed in the searched area.		07/16/2023	mrk

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Issue Classification 	Application/Control No. 17/889,108	Applicant(s)/Patent Under Reexamination KATIS et al.
	Examiner MELUR RAMAKRISHNAIAH	Art Unit 2651

CPC						
Symbol					Type	Version
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H04W	/	4	/	12	I	2013-01-01
H04L	/	12	/	1831	I	2013-01-01
H04L	/	65	/	1083	I	2013-01-01
H04L	/	65	/	4015	I	2013-01-01
H04L	/	65	/	403	I	2013-01-01
H04L	/	51	/	42	I	2022-05-01
H04L	/	51	/	216	I	2022-05-01
H04L	/	51	/	226	I	2022-05-01
H04L	/	65	/	764	I	2022-05-01
H04L	/	67	/	54	I	2022-05-01
E04H	/	3	/	126	I	2013-01-01
H04L	/	51	/	04	I	2013-01-01
G06F	/	15	/	16	I	2013-01-01
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H04M	/	3	/	5307	I	2013-01-01
H04L	/	61	/	2503	I	2013-01-01
H04N	/	7	/	147	I	2013-01-01
H04N	/	7	/	15	I	2013-01-01

CPC Combination Sets					
Symbol				Type	Set

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 65	
/MELUR RAMAKRISHNAIAH/ Primary Examiner, Art Unit 2651 (Primary Examiner) _____ (Date) _____		O.G. Print Claim(s) 1	O.G. Print Figure 1

Issue Classification 	Application/Control No. 17/889,108	Applicant(s)/Patent Under Reexamination KATIS et al.
	Examiner MELUR RAMAKRISHNAIAH	Art Unit 2651

INTERNATIONAL CLASSIFICATION			
CLAIMED			
H04L	/	65	/ 403
NON-CLAIMED			
	/		/

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					
379	93.01					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	65	
/MELUR RAMAKRISHNAIAH/ Primary Examiner, Art Unit 2651	16 July 2023	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Issue Classification 	Application/Control No. 17/889,108	Applicant(s)/Patent Under Reexamination KATIS et al.
	Examiner MELUR RAMAKRISHNAIAH	Art Unit 2651

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

CLAIMS															
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8	11	16	22	26	33		44	35	55	46	66	57	77		

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 65	
/MELUR RAMAKRISHNAIAH/ Primary Examiner, Art Unit 2651 (Primary Examiner) _____ (Date) 16 July 2023		O.G. Print Claim(s) 1	O.G. Print Figure 1

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L14	23	server SAME message adj3 video SAME senders SAME receivers SAME notif\$ AND @ad<"20070629"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/07/16 12:52 PM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L15	6	server SAME message adj3 camera SAME senders SAME receivers SAME notif\$ AND @ad<"20070629"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/07/16 12:54 PM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Atty Docket No.	REBLP003C21
	Application No.:	17/889,108
	Applicant	Voxer IP LLC
	Filing Date	August 16, 2022
	Group	2651
	Date Submitted	June 29, 2023

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	1.	2002/0073205	06/13/02	Mostafa			08/02/01
	2.	2003/0154300	08/14/03	Mostafa			02/08/02
	3.	2004/0225728	11/11/04	Huggins et al.			05/05/03
	4.	2004/0057420	03/25/04	Curcio et al.			02/18/03
	5.						
	6.						
	7.						

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-Class	Translation	
							Yes	No
	8.	WO2006050751	05/18/06	PCT				
	9.							

Other Documents

Examiner Initial	No.	Author, Title, Place (e.g. Journal) of Publication, Date
	10.	Apostolopoulos, "Video Streaming: Concepts, Algorithms, and Systems", Mobile and Media Systems Laboratory, HP Laboratories, Palo Alto, HPL-2002-260, September 18, 2002, 35 pages.
	11.	"3 rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and Codecs (Release 6), June 2004, 94 pages.
	12.	Liu et al., "Adaptive Video Multicast Over the Internet", Hong Kong university of Science and technology, IEEE, 2003, 12 pages.
	13.	"Universal Mobile Telecommunications System (UMTS); Multimedia Messaging Service (MMS), Functional description; Stage 2 (3GPP TS 23.140 version 4.2.0 Release 4), March, 2001, 75 pages.
	14.	Building Internet Firewalls, Chapter 6, Packet Filtering, "6.3 What Does a Packet Look Like", https://docstore.mik.ua/orelly/networking/firewall/ch06_03.htm , downloaded from the internet on May 18, 2023.

Examiner /MELUR RAMAKRISHNAIAH/	Date Considered 07/16/2023
---	--------------------------------------

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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BIB DATA SHEET

CONFIRMATION NO. 2115

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.		
17/889,108	08/16/2022	379	2651	REBLP003C21		
APPLICANTS Voxer IP LLC, San Francisco, CA;						
INVENTORS Thomas E. KATIS, Jackson, WY; James T. PANTTAJA, San Francisco, CA; Mary G. PANTTAJA, San Francisco, CA; Matthew J. RANNEY, Oakland, CA;						
** CONTINUING DATA ***** This application is a CON of 17/473,199 09/13/2021 ABN which is a CON of 17/062,060 10/02/2020 PAT 11146516 which is a CON of 16/669,865 10/31/2019 PAT 10841261 which is a CON of 16/161,474 10/16/2018 PAT 10511557 which is a CON of 15/937,361 03/27/2018 PAT 10158591 which is a CON of 15/923,287 03/16/2018 PAT 10129191 which is a CON of 15/584,224 05/02/2017 PAT 10142270 which is a CON of 15/231,240 08/08/2016 PAT 9674122 which is a CON of 14/799,528 07/14/2015 PAT 9456087 which is a CON of 14/198,043 03/05/2014 PAT 9154628 which is a CON of 13/555,034 07/20/2012 PAT 8705714 which is a CON of 12/037,256 02/26/2008 PAT 8243894 which is a CON of 12/028,400 02/08/2008 PAT 8180029 which claims benefit of 60/937,552 06/28/2007 and claims benefit of 60/999,619 10/19/2007						
** FOREIGN APPLICATIONS *****						
** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** ** SMALL ENTITY ** 08/29/2022						
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☒ No Verified and /MELUR RAMAKRISHNAIAH/ Acknowledged Examiner's Signature		☐ Met after Allowance MR Initials	STATE OR COUNTRY WY	SHEETS DRAWINGS 33	TOTAL CLAIMS 3	INDEPENDENT CLAIMS 1
ADDRESS BEYER LAW GROUP LLP / VOXER IP P. O. Box 51887 Palo Alto, CA 94303-1887 UNITED STATES						
TITLE TELECOMMUNICATION AND MULTIMEDIA MANAGEMENT METHOD AND APPARATUS						

FILING FEE RECEIVED 0.00	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	☐ All Fees
		☐ 1.16 Fees (Filing)
		☐ 1.17 Fees (Processing Ext. of time)
		☐ 1.18 Fees (Issue)
		☐ Other _____
		☐ Credit

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L14	23	server SAME message adj3 video SAME senders SAME receivers SAME notif\$ AND @ad<"20070629"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/07/16 12:52 PM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L7	15	messages SAME recepents SAME server AND @ad<"20070629"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/07/16 12:46 PM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L39	98	H04L65/752.cpc. AND H04N7/147.cpc. AND @ad<"20070628"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/05/06 02:16 PM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.



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NOTICE OF ALLOWANCE AND FEE(S) DUE

76743 7590 08/11/2023
BEYER LAW GROUP LLP / VOXER IP
P. O. Box 51887
Palo Alto, CA 94303-1887

EXAMINER	
RAMAKRISHNAIAH, MELUR	
ART UNIT	PAPER NUMBER
2651	

DATE MAILED: 08/11/2023

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/889,108	08/16/2022	Thomas E. KATIS	REBLP003C21	2115

TITLE OF INVENTION: TELECOMMUNICATION AND MULTIMEDIA MANAGEMENT METHOD AND APPARATUS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0.00	\$0.00	\$480	11/13/2023

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

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

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 40% the amount of undiscounted fees, and micro entity fees are 20% the amount of undiscounted fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed. 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: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (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 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. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

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.

76743 7590 08/11/2023
BEYER LAW GROUP LLP / VOXER IP
P. O. Box 51887
Palo Alto, CA 94303-1887

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 transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

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

17/889,108

08/16/2022

Thomas E. KATIS

REBLP003C21

2115

TITLE OF INVENTION: TELECOMMUNICATION AND MULTIMEDIA MANAGEMENT METHOD AND APPARATUS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0.00	\$0.00	\$480	11/13/2023

EXAMINER	ART UNIT	CLASS-SUBCLASS
RAMAKRISHNAIAH, MELUR	2651	379-093010

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/AIA/122 or PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or 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 _____

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 must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). 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. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required)

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

☐ Electronic Payment via Patent Center or EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

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

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

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

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

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/889,108	08/16/2022	Thomas E. KATIS	REBLP003C21	2115
EXAMINER				
RAMAKRISHNAIAH, MELUR				
ART UNIT			PAPER NUMBER	
2651				
DATE MAILED: 08/11/2023				

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

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

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

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

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

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

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 17/889,108	Applicant(s) KATIS et al.	
	Examiner MELUR RAMAKRISHNAIAH	Art Unit 2651	AIA (FITF) Status Yes

-- 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 6-29-23.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are See Continuation Sheet. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov**.

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

Certified copies:

a) ☐ All b) ☐ Some* c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

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

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892) 2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>6-29-23</u> . 3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____. 4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____.	5. ☐ Examiner's Amendment/Comment 6. ☒ Examiner's Statement of Reasons for Allowance 7. ☐ Other _____.
--	--

/MELUR RAMAKRISHNAIAH/
Primary Examiner, Art Unit 2651

Continuation of 3. The allowed claim(s) is/are: 4-11, 13, 16-30, 32-33, 47-85 (now renumbered 1-65)

Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance: This invention pertains to telecommunications, and more particularly, to a telecommunication and multimedia management method and apparatus that enables users to review the messages of conversations in either a live mode or a time-shifted mode and to transition the conversation back and forth between the two modes, participate in multiple conversations and to archive the messages of conversations for later review or processing.

The prior art of record in combination or alone fails to teach or discloses these elements of independent claims 4, 55, 69, 78 in combination with other elements. For example independent claim 4 has claim limitations such as maintaining a communication infrastructure on a network; receiving, at the communication infrastructure, information from a first client device used by an initiating participant, the information for forwarding a video message, the video message initiating multi-media conversation, using the information at the communication infrastructure for forwarding the video message by: ascertaining second participants for participation in the multi-media conversation using the information; ii)providing notifications to second client devices located on the network and associated with one or more of the second participants respectively; and (iii)-streaming, via the communication infrastructure, at least portions of the video media of the video message to one or more of the second client devices as the video media of the video message is streamed by the first client device, received at the communication infrastructure, and stored by the communication

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infrastructure, the streaming of the video media of the video message by the communication infrastructure enabling the one or more second client devices to render the at least portions of the video media of the video message in a real-time mode: (a) while the video media of the video message is streamed by the first client device; and (b) without first setting up an end-to-end connection over the network between the first client device and any of the one or more second client devices respectively; and enabling the one or more second participants that have joined the multi-media conversation, during the rendering of the video media of the video message in the real-time mode, to: (i) selectively add to the multi-media conversation one or more additional messages that are generated in response to the video message; and (ii) render the one or more additional messages that are generated in response with the video message. Independent claim 55 has claim limitations such as maintaining a messaging infrastructure on a network; receiving, at the messaging infrastructure, information from a first device used by an initiating participant, the information usable by the messaging infrastructure for forwarding a video message, the video message initiating a conversation, using the information at the messaging infrastructure for forwarding the video message by: (i) ascertaining second participants for participation in the conversation using the information; and (ii) streaming, via the messaging infrastructure, at least portions of the video media of the video message to one or more second devices associated with at least some of the ascertained second participants, the streaming to the one or more second devices occurring as the video media of the video message is streamed by the first device, received at the messaging infrastructure, and stored by the messaging infrastructure, the streaming of the video media of the video message by the messaging infrastructure enabling the one or more second devices to render the at least portions of the video media of the video message in a real-time mode: (a) while the video media of the video message is streamed by the first device; and (b) without first setting up an end-to-end connection over the network between the first device and any of the one or more second devices respectively; and enabling the one or more second participants that have joined the conversation to: (i) selectively add to the conversation one or more additional messages; and (ii) render the one or more additional messages. Independent claim 69 has claim limitations such as maintaining a messaging infrastructure on a network; receiving, at the messaging infrastructure, information from a first device used by

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an initiating user, the information usable by the messaging infrastructure for forwarding a video message to a group of users of the messaging infrastructure, the group of users associated with the initiating user, the video message initiating a conversation between the initiating user and the group of users; forwarding, by the messaging infrastructure, the video message to at least some of the group of users by: (i) using the information to ascertain the group of users and to locate second devices on the network associated with at least some of the group of users; and (ii) streaming, via the messaging infrastructure, at least portions of the video media of the video message to one or more of the second devices, the streaming to the one or more second devices occurring as the video media of the video message is streamed by the first device, received at the messaging infrastructure, and stored by the messaging infrastructure, the streaming of the video media of the video message by the messaging infrastructure enabling the one or more second devices to render the at least portions of the video media of the video message in a real-time mode: (a) while the video media of the video message is streamed by the first device; and (b) without first setting up an end-to-end connection over the network between the first device and any of the one or more second devices respectively; and enabling the one or more second users that have joined the conversation to selectively add to the conversation one or more additional messages or render the one or more additional messages.

Independent claim 78 has claim limitations such as maintaining a messaging infrastructure on a network; receiving, at the messaging infrastructure, information from a first device used by an initiating user, the information usable by the messaging infrastructure for forwarding a video message broadcast, the video message broadcast initiating a conversation between the initiating user and second users of the messaging infrastructure; forwarding, by the messaging infrastructure, the video message broadcast to at least some of the second users by: (i) using the information to ascertain the second users and to locate second devices on the network associated with at least some of the second users; and (ii) streaming, via the messaging infrastructure, at least portions of the video media of the video message broadcast to one or more of the second devices, the streaming to the one or more second devices occurring as the video media of the video message broadcast is received by the messaging infrastructure from the first device and stored by the messaging infrastructure, the streaming of the video media of the video message broadcast by the messaging infrastructure enabling

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the one or more second devices to render the at least portions of the video media of the video message broadcast in a real-time mode: (a) while the video media of the video message broadcast is streamed by the first device; and (b) without first setting up an end-to-end connection over the network between the first device and any of the one or more second devices respectively; and enabling the one or more second users that have joined the conversation to selectively add to the conversation one or more additional messages or render the one or more additional messages.

3. Claim 4-11, 13, 16-30, 32-33, 47-85 (now renumbered 1-65) are allowed.

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

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MELUR RAMAKRISHNAIAH whose telephone number is (571)272-8098. The examiner can normally be reached Flexible.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duc M Nguyen can be reached on 27503. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: <https://patentcenter.uspto.gov>. Visit <https://www.uspto.gov/patents/apply/patent-center> for more information about Patent Center and <https://www.uspto.gov/patents/docx> for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MELUR RAMAKRISHNAIAH/
Primary Examiner, Art Unit 2651

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: KATIS et al.

Attorney Docket No.: REBLP003C21

Application No.: 17/889,108

Examiner: RAMAKRISHNAIAH,
MELUR

Filed: August 16, 2022

Group: 2651

Title: TELECOMMUNICATION AND
MULTIMEDIA MANAGEMENT METHOD AND
APPARATUS

Confirmation No.: 2115

CERTIFICATE OF EFS-WEB TRANSMISSION

I hereby certify that this correspondence is being transmitted electronically through EFS-WEB to the Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450 on August 15, 2023.

Signed: /Cara Hedin/
Cara Hedin

AMENDMENT TRANSMITTAL

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

Commissioner:

Transmitted herewith is an Amendment in the above-identified application.

The fee has been calculated as shown below.

	Claims After Amendment		Highest Previously Paid For	Present Extra	Small Entity Rate Fee	Large Entity Rate Fee
Total Claims	65	MINUS	43	22	x 40 = \$880.00	x 100 = \$0.00
Independent Claims	04	MINUS	03	01	x 192 = \$0.00	x 460 = \$0.00
Multiple Dependent Claim Present and Fee Not Previously Paid						
Total					\$1072.00	\$0.00

☒ Applicant(s) believe that no (additional) Extension of Time is required; however, if it is determined that such an extension is required, Applicant(s) hereby petition that such an extension be granted and authorize the Commissioner to charge the required fees for an Extension of Time under 37 CFR 1.136 to Deposit Account No. 50-4481.

☒ Please charge the required fees, or any additional fees required to facilitate filing the enclosed response, to Deposit Account No. 50-4481 (Order No. REBLP003C21).

Respectfully submitted,
BEYER LAW GROUP LLP

/James W. Rose/
James W. Rose
Reg. No. 34,239

P. O. Box 51887
Palo Alto, CA 94303-1887
650-842-1300 (Office)
650 315 8401 (Cell)

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (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 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. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

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.

76743 7590 08/11/2023
BEYER LAW GROUP LLP / VOXER IP
P. O. Box 51887
Palo Alto, CA 94303-1887

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 transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

Cara Hedin	(Typed or printed name)
/Cara Hedin/	(Signature)
August 15, 2023	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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17/889,108	08/16/2022	Thomas E. KATIS	REBLP003C21	2115
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TITLE OF INVENTION: TELECOMMUNICATION AND MULTIMEDIA MANAGEMENT METHOD AND APPARATUS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0.00	\$0.00	\$480	11/13/2023

EXAMINER	ART UNIT	CLASS-SUBCLASS
RAMAKRISHNAIAH, MELUR	2651	379-093010

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/AIA/122 or PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or 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 Beyer Law Group LLP

2

3

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

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

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

Voxer IP LLC

San Francisco, 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. Fees submitted: ☒ Issue Fee ☒ Publication Fee (if required)

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

☒ Electronic Payment via Patent Center or EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 504481

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

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

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

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

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

Authorized Signature James W. Rose/

Date August 15, 2023

Typed or printed name James W. Rose

Registration No. 34,239

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: KATIS et al.

Attorney Docket No.: REBLP003C21

Application No.: 17/889,108

Examiner: RAMAKRISHNAIAH,
MELUR

Filed: August 16, 2022

Group: 2651

Title: TELECOMMUNICATION AND
MULTIMEDIA MANAGEMENT METHOD AND
APPARATUS

Confirmation No.: 2115

CERTIFICATE OF EFS-WEB TRANSMISSION

I hereby certify that this correspondence is being transmitted electronically through EFS-WEB to the Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450 on August 15, 2023.

Signed: _____/Cara Hedin/
Cara Hedin

**AMENDMENT AFTER ALLOWANCE, BEFORE OR WITH PAYMENT OF ISSUE
FEE PURSUANT to 37 C.F.R. §1.312**

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

Dear Commissioner:

Prior to the issuance of the above-identified application as a patent, and in response to the Notice of Allowance dated August 11, 2023, please amend the above-identified patent application as follows:

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

Remarks/Arguments begin on page 15 of this paper.

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

Listing of Claims:

1.-3. (Cancelled)

4. (Currently Amended) A method comprising:

maintaining a communication infrastructure on a network;

receiving, at the communication infrastructure, information from a first client device used by an initiating participant, the information for forwarding **video media of** a video message, the video message initiating a multi-media conversation,

using the information at the communication infrastructure for forwarding the video message by:

(i) ascertaining second participants for participation in the multi-media conversation using the information;

(ii) providing notifications to second client devices located on the network and associated with one or more of the second participants respectively; and

(iii) streaming, ~~via~~ **by** the communication infrastructure, at least portions of the video media of the video message to one or more of the second client devices as the video media of the video message is streamed by the first client device, received at the communication infrastructure, and stored by the communication infrastructure,

the streaming of the video media of the video message by the communication infrastructure enabling the one or more second client devices to render the at least portions of the video media of the video message in a real-time mode:

(a) while the video media of the video message is streamed by the first client device; and

(b) without first setting up an end-to-end connection over the network between the first client device and any of the one or more second client devices respectively; and

enabling the one or more second participants that have joined the multi-media conversation, during the rendering of the video media of the video message in the real-time mode, to:

(i) selectively add to the multi-media conversation one or more additional messages that are generated in response the video message; and

(ii) render the one or more additional messages that are generated in response with the video message.

5. (Previously Presented) The method of claim 4, wherein the adding of at least one of the one or more additional messages overlaps with the streaming of the video media of the video message by the first client device.

6. (Previously Presented) The method of claim 4, further comprising enabling simultaneously rendering of:

the video media of the video message in the real-time mode; and

the one or more additional messages that is/are added while the video media of the video message is streamed by the first client device.

7. (Previously Presented) The method of claim 4, further comprising enabling simultaneously rendering of:

the video media of the video message in a time-shifted mode; and

the one or more additional messages added to the multi-media conversation.

8. (Previously Presented) The method of claim 4, wherein the adding of at least one of the one or more additional messages occurs after the streaming of the video media of the video message by the first client device is complete.

9. (Previously Presented) The method of claim 4, further comprising enabling adding to the one or more additional messages during or after any of:

(c) the streaming of the video media of the video message by the first client device;

(d) the rendering of the video media of the video message in the real-time; or

(e) the rendering of the video media of the video message in a time-shifted mode.

10. (Currently Amended) The method of claim 4, wherein the one or more additional messages are organized and listed in a time-order in which the one or more additional messages is/are added to the multi-media conversation respectively.

11. (Previously Presented) The method of claim 4, wherein the one or more additional messages selectively include one or more of the following media types: voice; video; photo; text; location data; sensor data; image; or other data.

12. (Cancelled)

13. (Previously Presented) The method of claim 4, further comprising configuring the communication infrastructure to ascertain IP address(es) for the one or more second client devices respectively.

14. (Cancelled)

15. (Cancelled)

16. (Previously Presented) The method of claim 4, further comprising:
enabling the initiating participant to initiate multiple multi-media conversations by creating and disseminating multiple video messages, each of which may be selectively rendered in the real-time mode, and each having one or more additional messages associated therewith; and
enabling the initiating participant to selectively switch participation among the multiple multi-media conversations.

17. (Previously Presented) The method of claim 4, further comprising enabling the multi-media conversation to be searchable using one or more tags.

18. (Previously Presented) The method of claim 4, further comprising transcoding the video media of the video message from one encoding format as streamed by the first client device to one or more second encoding format(s) suitable for rendering on the one or more second client devices respectively.

19. (Previously Presented) The method of claim 4, further comprising selectively degrading a quality level of the video media of the video message when streaming the video media of the video message along a delivery route over the network to a select second client device, the quality level of the video media degraded commensurate with an ascertained bandwidth along the delivery route over the network.

20. (Previously Presented) The method of claim 4, further comprising providing two or more rendering options for rendering the video media of the video message, the two or more rendering options including: play; play fast; play slow; jump back; jump forward; jump to start; jump to head; rewind; pause; and play again.

21. (Previously Presented) The method of claim 4, further comprising assigning one or more attributes to the multi-media conversation, the one or more attributes including:

- (c) a name for the multi-media conversation;
- (d) a name for the initiating participant;
- (e) a name or names for the initiating participant or any of the second participant(s) that have added to the one or more additional messages respectively; or
- (f) a date or time for the video message and each of the one or more additional messages added to the multi-media conversation respectively.

22. (Previously Presented) The method of claim 4, wherein the streaming of the video media of the video message further comprises:

segmenting the video media of the video message into a sequence of segments, the segments each including a payload;

adaptively adjusting a number of bits representing the video media of the video message contained in the payloads of the segments, the number of bits adaptively adjusted based on an ascertained bandwidth over a network connection; and

streaming the sequence of segments, with the adaptively adjusted number of bits contained in the payloads, over the network connection.

23. (Previously Presented) The method of claim 4, further comprising:

transcoding the video media of the video message; and

streaming the video media of the video message to the one or more second client devices as originally encoded or as transcoded as needed for rendering on the one or more second client devices respectively.

24. (Previously Presented) The method of claim 4, further comprising adaptively adjusting as needed a number of bits contained in video media payloads used to stream the video media of the video message by the communication infrastructure to the one or more second client devices respectively, the adaptive adjustment based on bandwidth conditions over network connection(s) between the communication infrastructure and the one or more second client devices respectively.

25. (Previously Presented) The method of claim 4, further comprising segmenting the video message into a plurality of indexed media payloads, the plurality of indexed media

payloads associated by a message identifier and sequentially numbered so that the plurality of indexed media payloads can be rendered in the sequentially numbered order.

26. (Previously Presented) The method of claim 4, further comprising enabling the initiating participant to initiate multiple conversations with multiple video messages at designated times or fixed time intervals respectively.

27. (Previously Presented) The method of claim 4, wherein the information is indicative that the video message is a broadcast, and in response, the communication infrastructure uses the information to ascertain at least some of the second participants for broadcasting the video message.

28. (Previously Presented) The method of claim 4, further comprising enabling the one or more second participants to be in an application running on their associated second client devices when notified of the video message.

29. (Previously Presented) The method of claim 4, further comprising:
providing a user interface for the first client device and the one or more second client devices respectively; and
enabling the initiating participant, and the one or more second participants, to initiate and selectively participate in the multi-media conversation through the user interface provided on the first client device and the one or more second client devices respectively.

30. (Previously Presented) The method of claim 4, further comprising distributing an application defining a user interface that enables the users of the multi-media messaging service to selectively initiate and/or participate in a plurality of multi-media conversations, each including at least one video message, that can be rendered in the real-time mode.

31. (Cancelled)

32. (Previously Presented) The method of claim 4, further comprising selectively serving the video media of the video message, and the one or more additional messages, from one or more storage locations to one of (i) the first client device, (ii) any of the one or more second client devices, or both (i) and (ii).

33. (Previously Presented) The method of claim 4, wherein the video media of the video message is made available by the communication infrastructure to the one or more second client devices for rendering either in (i) the real-time mode or (ii) out of one or more storage locations in a time-shifted mode.

34.-46. (Cancelled)

47. (Previously Presented) The method of claim 4, wherein the video message is a broadcast.

48. (Previously Presented) The method of claim 4, further comprising:
providing the initiating participant an ability for selectively designating the information for the video message as one of a broadcast, for an identified user, for identified multiple users, for a defined group of users, or for a channel; and
configuring the communication infrastructure to ascertain the second participants, using the information, at least partially in compliance with the selected designation.

49. (Previously Presented) The method of claim 4, further comprising:
providing the initiating participant an ability for designating the video message as a broadcast; and
in response to the designation, configuring the communication infrastructure to broadcast the video message to at least some of the second participants.

50. (Previously Presented) The method of claim 4, wherein the video message is broadcast to the second participants that positively respond to the notification respectively.

51. (Previously Presented) The method of claim 4, wherein the information identifies one or more users of the communication infrastructure as defined by the initiating participant.

52. (Previously Presented) The method of claim 4, wherein the information is useful for ascertaining a group of users of the communication infrastructure associated with the initiating participant.

53. (Previously Presented) The method of claim 4, wherein the information is useful for ascertaining a channel having one or more users of the communication infrastructure associated therewith.

54. (Previously Presented) The method of claim 4, wherein the information is indicative that the video message is a broadcast.

55. (Currently Amended) A method comprising:
maintaining a messaging infrastructure on a network;
receiving, at the messaging infrastructure, information from a first device used by an initiating participant, the information usable by the messaging infrastructure for forwarding **video media of** a video message, the video message initiating a conversation,
using the information at the messaging infrastructure for forwarding the video message by:

(i) ascertaining second participants for participation in the conversation using the information; and

(ii) streaming, ~~via~~ **by** the messaging infrastructure, at least portions of the video media of the video message to one or more second devices associated with at least some of the ascertained second participants, the streaming to the one or more second devices occurring as the video media of the video message is streamed by the first device, received at the messaging infrastructure, and stored by the messaging infrastructure, the streaming of the video media of the video message by the messaging infrastructure enabling the one or more second devices to render the at least portions of the video media of the video message in a real-time mode:

(a) while the video media of the video message is streamed by the first device; and

(b) without first setting up an end-to-end connection over the network between the first device and any of the one or more second devices respectively; and

enabling **[[the]]** one or more second participants that have joined the conversation to:

(i) selectively add to the conversation one or more additional messages; and

(ii) render the one or more additional messages.

56. (Previously Presented) The method of claim 55, wherein the adding of at least one of the one or more additional messages overlaps with the streaming of the video media of the video message by the first device.

57. (Previously Presented) The method of claim 55, further comprising enabling simultaneously rendering of:

the video media of the video message in the real-time mode; and

the one or more additional messages that is/are added while the video media of the video message is being rendered in the real-time mode.

58. (Previously Presented) The method of claim 55, wherein the adding or rendering of at least one of the one or more additional messages occurs after the streaming of the video media of the video message by the first device is complete.

59. (Previously Presented) The method of claim 55, further comprising organizing the one or more additional messages in a time-order, the one or more additional messages including one or more of the following media types: voice; video; photo; text; location data; sensor data; image; or other data.

60. (Previously Presented) The method of claim 55, further comprising transcoding the video media of the video message from one encoding format as streamed by the first device to one or more second encoding format(s) as needed for rendering on the one or more second device(s) respectively.

61. (Previously Presented) The method of claim 55, further comprising selectively degrading quality level(s) of the video media of the video message when streaming the video media of the video message along one or more delivery route(s) over the network to one or more select second device(s) respectively.

62. (Previously Presented) The method of claim 55, further comprising adaptively adjusting a number of bits contained in video media payloads used to stream the video media of the video message by the messaging infrastructure to the one or more second device(s) respectively.

63. (Previously Presented) The method of claim 55, wherein the information is indicative that the video message is a broadcast, and in response, the messaging infrastructure uses the information to ascertain at least some of the second participants for broadcasting the video message.

64. (Currently Amended) The method of claim 55, further comprising notifying **at least some of** the ~~one or more~~ second participants of the video message.

65. (Previously Presented) The method of claim 55, further comprising configuring the messaging infrastructure to selectively serve from storage to the first device for rendering in a time-shifted mode one of:

- (i) the video media of the video message;
- (ii) the one or more additional messages; or
- (iii) both (i) and (ii).

66. (Previously Presented) The method of claim 55, further comprising configuring the messaging infrastructure to selectively serve from storage to any of the one or more second devices one of:

- (i) the video media of the video message;
- (ii) the one or more additional messages; or
- (iii) both (i) and (ii).

67. (Previously Presented) The method of claim 55, wherein the video message is a broadcast.

68. (Previously Presented) The method of claim 55, wherein the information is useful for ascertaining a group of users for participation in the conversation, the group of users associated with the initiating participant.

69. (Currently Amended) A method comprising:
maintaining a messaging infrastructure on a network;
receiving, at the messaging infrastructure, information from a first device used by an initiating user, the information usable by the messaging infrastructure for forwarding **video media of** a video message to a group of users of the messaging infrastructure,
the group of users associated with the initiating user,
the video message initiating a conversation between the initiating user and the group of users;
forwarding, by the messaging infrastructure, the video message to at least some of the group of users by:

(i) using the information to ascertain the group of users and to locate second devices on the network associated with at least some of the group of users; and

(ii) streaming, ~~via~~ by the messaging infrastructure, at least portions of the video media of the video message to one or more of the second devices, the streaming to the one or more second devices occurring as the video media of the video message is streamed by the first device, received at the messaging infrastructure, and stored by the messaging infrastructure,

the streaming of the video media of the video message by the messaging infrastructure enabling the one or more second devices to render the at least portions of the video media of the video message in a real-time mode:

(a) while the video media of the video message is streamed by the first device; and

(b) without first setting up an end-to-end connection over the network between the first device and any of the one or more second devices respectively; and

enabling ~~[[the]]~~ one or more second of the group of users that have joined the conversation to selectively add to the conversation one or more additional messages or render the one or more additional messages.

70. (Previously Presented) The method of claim 69, wherein the adding or rendering of at least one of the one or more additional messages occurs during the streaming of the video media of the video message by the first device.

71. (Previously Presented) The method of claim 69, wherein the adding or rendering of at least one of the one or more additional messages occurs after the streaming of the video media of the video message by the first device is complete.

72. (Previously Presented) The method of claim 69, further comprising transcoding the video media of the video message from one encoding format as streamed by the first device to one or more second encoding format(s) as needed for rendering on the one or more second device(s) respectively.

73. (Previously Presented) The method of claim 69, further comprising selectively degrading quality level(s) of the video media of the video message when streaming the video media of the video message from the messaging infrastructure along one or more delivery route(s) over the network to one or more select second device(s) respectively.

74. (Previously Presented) The method of claim 69, further comprising adaptively adjusting a number of bits contained in video media payloads used to stream the video media of the video message by the messaging infrastructure to the one or more second devices, respectively.

75. (Currently Amended) The method of claim 69, wherein the information is indicative that the video message is a broadcast, and in response, the messaging infrastructure broadcasts the video message to ~~at least some of one or more among~~ the group of users associated with the initiating user.

76. (Previously Presented) The method of claim 69, further comprising notifying the group of users of the video message.

77. (Previously Presented) The method of claim 69, further comprising organizing the one or more additional messages in a time-order, the one or more additional messages including one or more of the following media types: voice; video; photo; text; location data; sensor data; image; or other data..

78. (Currently Amended) A method comprising:
maintaining a messaging infrastructure on a network;
receiving, at the messaging infrastructure, information from a first device used by an initiating user, the information usable by the messaging infrastructure for forwarding **video media of** a video message broadcast, the video message broadcast initiating a conversation between the initiating user and second users of the messaging infrastructure;

forwarding, by the messaging infrastructure, the video message broadcast ~~to at least some of the second users~~ by:

(i) using the information to ascertain the second users and to locate second devices on the network associated with at least some of the second users; and

(ii) streaming, ~~via~~ **by** the messaging infrastructure, at least portions of the video media of the video message broadcast to one or more of the second devices, the streaming to the one or more second devices occurring as the video media of the video message broadcast is received by the messaging infrastructure from the first device and stored by the messaging infrastructure,

the streaming of the video media of the video message broadcast by the messaging infrastructure enabling the one or more second devices to render the at least portions of the video media of the video message broadcast in a real-time mode:

(a) while the video media of the video message broadcast is streamed by the first device; and

(b) without first setting up an end-to-end connection over the network between the first device and any of the one or more second devices respectively; and

enabling ~~[[the]]~~ one or more **of the** second users that have joined the conversation to selectively add to the conversation one or more additional messages or render the one or more additional messages.

79. (Previously Presented) The method of claim 78, wherein the adding or rendering of at least one of the one or more additional messages occurs during the streaming of the video media of the video message broadcast by the first device.

80. (Previously Presented) The method of claim 78, wherein the adding or rendering of at least one of the one or more additional messages occurs after the streaming of the video media of the video message broadcast by the first device is complete.

81. (Previously Presented) The method of claim 78, further comprising organizing the one or more additional messages in a time-order, the one or more additional messages including one or more of the following media types: voice; video; photo; text; location data; sensor data; image; or other data..

82. (Previously Presented) The method of claim 78, further comprising transcoding the video media of the video message broadcast from one encoding format as streamed by the first device to one or more second encoding format(s) as needed for rendering on the one or more second device(s) respectively.

83. (Previously Presented) The method of claim 78, further comprising selectively degrading quality level(s) of the video media of the video message broadcast when streaming the video media of the video message broadcast from the messaging infrastructure along one or more delivery route(s) over the network to one or more select second device(s) respectively.

84. (Previously Presented) The method of claim 78, further comprising adaptively adjusting a number of bits contained in video media payloads used to stream the video media of the video message broadcast by the messaging infrastructure to the one or more second devices, respectively.

85. (Previously Presented) The method of claim 78, further comprising notifying the second users of the video message broadcast.

REMARKS

The Applicant has made Amendments to claims 4, 10, 55, 64, 69, 75 and 78 to correct typographical errors, minor inconsistencies, and/or 35 USC 112(b) type issues. These amendments introduce no new matter or do not alter the scope of the claims. It is requested that these amendments now be entered.

Conclusion

Should the Office have any continuing questions or concerns related to the present application, the Examiner is encouraged to contact the undersigned at the telephone number provided below to address such questions or concerns quickly and efficiently.

Respectfully submitted,

/James W. Rose/

James W. Rose
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
17/889,108

RECEIPT DATE / TIME
08/15/2023 11:39:53 AM ET

ATTORNEY DOCKET #
REBLP003C21

Title of Invention

TELECOMMUNICATION AND MULTIMEDIA MANAGEMENT METHOD AND APPARATUS

Application Information

APPLICATION TYPE Utility - Nonprovisional Application
under 35 USC 111(a)

PATENT # -

CONFIRMATION # 2115

FILED BY Cara Hedin

PATENT CENTER # 62617030

FILING DATE 08/16/2022

CUSTOMER # 76743

FIRST NAMED INVENTOR Thomas E. KATIS

CORRESPONDENCE ADDRESS -

AUTHORIZED BY James Rose

Documents

TOTAL DOCUMENTS: 5

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
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REBLP003C21_IF_Pmt.pdf	1	Issue Fee Payment (PTO-85B)	126 KB
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Warning: The attached file contains comments or annotations. Comments are not recommended and may cause processing problems with the document.

REBLP003C21_312_Amend ment_Transmittal.pdf	1	Transmittal Letter	21 KB
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REBLP003C21_Rule312_Am endment.pdf	15	-	79 KB
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REBLP003C21_Rule312_A mendment-A.NA.pdf	(1-1) 1	Amendment after Notice of Allowance (Rule 312)	21 KB
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REBLP003C21_Rule312_A mendment-CLM.pdf	(2-14)	13	Claims	68 KB
REBLP003C21_Rule312_A mendment-REM.pdf	(15-15)	1	Applicant Arguments/Remarks Made in an Amendment	17 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
REBLP003C21_IF_Pmt.pdf	AEA7D0BACB1C9760CAE9317E9DE05E4FC3913B52BE40BF EF 9A848FA9777A83F920CEDC4F745ED01C92E8C6E51AF91DD2 ABC9FDDA8EF7490FC13D0C78D4AB248B
REBLP003C21_312_Amendme nt_Transmittal.pdf	6A17A2DD4A6746A7142B8DE662DE071B4A2CD8493F14C10A4 C05BC3E1485DB6BCB0CD529760BD0EAC891B11EFC116A8B9 36FD2BD861798D4D22787C1954F5888
REBLP003C21_Rule312_Amen dment.pdf	681BFE63A2C8A314F379119B4B40AB84BDC0BB770D4CE1058 55D7BBD3582164E7D70D1F9D167D728AD1D09B43A34FB31B3 599B0AED5EE81D8CA4E9863A6880D3
REBLP003C21_Rule312_Amen dment-A.NA.pdf	99BCB7731B9CC6D8522F6747F4BA92278EB722F0659402A059 359DA05735994AA186C960446DE8D05879EFD2E377187B7B DC3ACEC41647E7BC8559E0988F147
REBLP003C21_Rule312_Amen dment-CLM.pdf	D12831F00439B0334A58D5CC995690F497BBB50315EC42A344 147D5AE2338208337CAD685CF999104A542EE19A0FACA5828 E178121BC2E30D15DBB977E7FCE67
REBLP003C21_Rule312_Amen dment-REM.pdf	0A3223A2178258E414A9DF6266FFE4E3F16E7968D409BA718E 2CDB809C923D45653B8B786E6CE9FB1356F9AA36DCC8CB8F 07C82ED008CDDA0145B6D5B289B2F3

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

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

New International Application Filed with the USPTO as a Receiving Office

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



ELECTRONIC PAYMENT RECEIPT

APPLICATION #
17/889,108

RECEIPT DATE / TIME
08/15/2023 11:39:53 AM ET

ATTORNEY DOCKET #
REBLP003C21

Title of Invention

TELECOMMUNICATION AND MULTIMEDIA MANAGEMENT METHOD AND APPARATUS

Application Information

APPLICATION TYPE Utility - Nonprovisional Application
under 35 USC 111(a)

PATENT # -

CONFIRMATION # 2115

FILED BY Cara Hedin

PATENT CENTER # 62617030

AUTHORIZED BY James Rose

CUSTOMER # 76743

FILING DATE 08/16/2022

CORRESPONDENCE
ADDRESS -

FIRST NAMED
INVENTOR Thomas E. KATIS

Payment Information

PAYMENT METHOD
DA / 504481

PAYMENT TRANSACTION ID
E20238EB41379101

PAYMENT AUTHORIZED BY
Cara Hedin

PRE-AUTHORIZED ACCOUNT
504481

PRE-AUTHORIZED CATEGORY
37 CFR 1.20 (Post Issuance fees); 37 CFR 1.21 (Miscellaneous fees and charges)

FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
2501	UTILITY ISSUE FEE	480.00	1	480.00
TOTAL AMOUNT:				\$480.00

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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 filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

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

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

New International Application Filed with the USPTO as a Receiving Office

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



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/889,108	08/16/2022	Thomas E. KATIS	REBLP003C21	2115

76743 7590 08/24/2023
BEYER LAW GROUP LLP / VOXER IP
P. O. Box 51887
Palo Alto, CA 94303-1887

EXAMINER

RAMAKRISHNAIAH, MELUR

ART UNIT	PAPER NUMBER
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2651

NOTIFICATION DATE	DELIVERY MODE
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08/24/2023

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):

USPTOmail@beyerlaw.com

Response to Rule 312 Communication	Application No.		Applicant(s)	
	17/889,108		KATIS et al.	
	Examiner		Art Unit	AIA (FITF) Status
	MELUR RAMAKRISHNAIAH		2651	Yes

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

1. ☒ The amendment filed on 15 August 2023 under 37 CFR 1.312 has been considered, and has been:

a) ☐ entered.

b) ☒ entered as directed to matters of form not affecting the scope of the invention.

c) ☐ disapproved because the amendment was filed after the payment of the issue fee.
Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.

d) ☐ disapproved. See explanation below.

e) ☐ entered in part. See explanation below.

f) ☐ not entered because the supplemental or corrected Application Data sheet (ADS)

☐ was not accompanied by a petition to accept an unintentionally delayed claim under 37 CFR 1.55 or 27 CFR 1.78;
☐ did not identify the information being changed in accordance with 37 CFR 1.76(c)(2);
☐ was not properly signed in accordance with 37 CFR 1.76(e) (or 37 CFR 1.33(b) for applications filed prior to September 16, 2012).

/MELUR RAMAKRISHNAIAH/ Primary Examiner, Art Unit 2651	
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BIB DATA SHEET

CONFIRMATION NO. 2115

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.		
17/889,108	08/16/2022	379	2651	REBLP003C21		
APPLICANTS Voxer IP LLC, San Francisco, CA;						
INVENTORS Thomas E. KATIS, Jackson, WY; James T. PANTTAJA, San Francisco, CA; Mary G. PANTTAJA, San Francisco, CA; Matthew J. RANNEY, Oakland, CA;						
** CONTINUING DATA ***** This application is a CON of 17/473,199 09/13/2021 ABN which is a CON of 17/062,060 10/02/2020 PAT 11146516 which is a CON of 16/669,865 10/31/2019 PAT 10841261 which is a CON of 16/161,474 10/16/2018 PAT 10511557 which is a CON of 15/937,361 03/27/2018 PAT 10158591 which is a CON of 15/923,287 03/16/2018 PAT 10129191 which is a CON of 15/584,224 05/02/2017 PAT 10142270 which is a CON of 15/231,240 08/08/2016 PAT 9674122 which is a CON of 14/799,528 07/14/2015 PAT 9456087 which is a CON of 14/198,043 03/05/2014 PAT 9154628 which is a CON of 13/555,034 07/20/2012 PAT 8705714 which is a CON of 12/037,256 02/26/2008 PAT 8243894 which is a CON of 12/028,400 02/08/2008 PAT 8180029 which claims benefit of 60/937,552 06/28/2007 and claims benefit of 60/999,619 10/19/2007						
** FOREIGN APPLICATIONS *****						
** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** ** SMALL ENTITY ** 08/29/2022						
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☒ No Verified and /MELUR RAMAKRISHNAIAH/ Acknowledged Examiner's Signature		☐ Met after Allowance MR Initials	STATE OR COUNTRY WY	SHEETS DRAWINGS 33	TOTAL CLAIMS 3	INDEPENDENT CLAIMS 1
ADDRESS BEYER LAW GROUP LLP / VOXER IP P. O. Box 51887 Palo Alto, CA 94303-1887 UNITED STATES						
TITLE TELECOMMUNICATION AND MULTIMEDIA MANAGEMENT METHOD AND APPARATUS						

FILING FEE RECEIVED 0.00	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	☐ All Fees
		☐ 1.16 Fees (Filing)
		☐ 1.17 Fees (Processing Ext. of time)
		☐ 1.18 Fees (Issue)
		☐ Other _____
		☐ Credit

Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Atty Docket No.	REBLP003C21
	Application No.:	17/889,108
	Applicant	KATIS et al.
	Filing Date	August 16, 2022
	Group	Unassigned
	Date Submitted	February 8, 2023

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	1.	2008/0139188	04/05/11	Purontaus	06/2008		08/17/07
	2.	2006/0282738	12/14/06	Sohn			07/01/04
	3.	2005/0234850	10/20/05	Buccheit et al.			08/06/04
	4.	6,691,153	02/10/04	Hanson et al.			01/14/00
	5.						

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-Class	Translation	
							Yes	No
	6.	WO 2006/092810	09/08/06	WO				
	7.	WO 0110128	02/08/01	WO				
	8.	WO 2007020627	02/22/07	WO				
	9.	WO 2006116750	02/11/06	WO				

Other Documents

Examiner Initial	No.	Author, Title, Place (e.g. Journal) of Publication, Date
	10.	Office Action in U.S. dated February 24, 2020 from U.S. Application No. 16/669,865.
	11.	Office Action in U.S. dated July 13, 2020 from U.S. Application No. 16/669,865.
	12.	Office Action in U.S. dated June 25, 2020 from U.S. Application No. 16/424,131
	13.	Final Office Action in U.S. dated January 21, 2021 from U.S. Application No. 16/424,131
	14.	Office Action in U.S. dated February 8, 2021 from U.S. Application No. 17/062,060
	15.	Office Action in U.S. dated January 9, 2023 from U.S. Application No. 17/977,948.
	16.	Office Action in U.S. dated January 20, 2023 from U.S. Application No. 17/977,959.
	17.	Notice of Allowance in U.S. dated January 31, 2023 from U.S. Application No. 17/977,948.
	18.	Office Action in U.S. dated February 6, 2023 from U.S. Application No. 17/977,963.
Examiner /MELUR RAMAKRISHNAIAH/		Date Considered 05/05/2023

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Change(s) applied
to document,
/C.S./
8/17/2023



APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/889,108	10/03/2023	11777883	REBLP003C21	2115

76743 7590 09/13/2023

BEYER LAW GROUP LLP / VOXER IP
P. O. Box 51887
Palo Alto, CA 94303-1887

ISSUE NOTIFICATION

The projected patent number and issue date are specified above. The patent will issue electronically. The electronically issued patent is the official patent grant pursuant to 35 U.S.C. § 153. The patent may be accessed on or after the issue date through Patent Center at <https://patentcenter.uspto.gov/>. The patent will be available in both the public and the private sides of Patent Center. Further assistance in electronically accessing the patent, or about Patent Center, is available by calling the Patent Electronic Business Center at 1-888-217-9197.

The USPTO is implementing electronic patent issuance with a transition period, during which period the USPTO will mail a ceremonial paper copy of the electronic patent grant to the correspondence address of record. Additional copies of the patent (i.e., certified and presentation copies) may be ordered for a fee from the USPTO's Certified Copy Center at <https://certifiedcopycenter.uspto.gov/index.html>. The Certified Copy Center may be reached at (800)972-6382.

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

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

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

Applicant will be able to obtain more detailed information by accessing the Patent Center (<https://patentcenter.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 Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

INVENTOR(s) (Please see PATENT CENTER site <https://patentcenter.uspto.gov> for additional inventors):

Thomas E. KATIS, Jackson, WY;
James T. PANTTAJA, San Francisco, CA;
Mary G. PANTTAJA, San Francisco, CA;
Matthew J. RANNEY, Oakland, CA;

APPLICANT(s) (Please see PATENT CENTER site <https://patentcenter.uspto.gov> for additional applicants):

Voxer IP LLC, San Francisco, CA;

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/889,108	08/16/2022	Thomas E. KATIS	REBLP003C21	2115

76743 7590 10/03/2023
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P. O. Box 51887
Palo Alto, CA 94303-1887

EXAMINER

RAMAKRISHNAIAH, MELUR

ART UNIT	PAPER NUMBER
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2651

NOTIFICATION DATE	DELIVERY MODE
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10/03/2023

ELECTRONIC

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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):

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APPLICATION NO.	ISSUE DATE	PATENT NO.
17/889,108	03-Oct-2023	11777883

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P. O. Box 51887
Palo Alto, CA 94303-1887

EGRANT NOTIFICATION

Your electronic patent grant (eGrant) is now available, which can be accessed via Patent Center at <https://patentcenter.uspto.gov>

The electronic patent grant is the official patent grant under 35 U.S.C. 153. For more information, please visit <https://www.uspto.gov/electronicgrants>



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ACKNOWLEDGEMENT OF LOSS OF ENTITLEMENT TO ENTITY STATUS DISCOUNT

APPLICATION #	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET #	REQUEST ID
17/889,108	08/16/2022	Thomas E. KATIS	REBLP003C21	156419

The entity status change request below filed through Patent Center on 02/01/2024 has been accepted.

Certifications

APPLICANT CHANGING TO REGULAR UNDISCOUNTED FEE STATUS

Signature

I certify, in accordance with 37 CFR 1.4(d)(4), that I am one of the signatories making the entity status change.

Signature	Name	Registration #
/James W Rose/	James Rose	34239