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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/472,033	09/10/2021	Nick Swerdlow	ZOOM-164-C	1532

177453 7590 10/21/2025

Zoom Communications, Inc. at Young Basile
3001 West Big Beaver Rd., Ste. 624
Troy, MI 48084

EXAMINER
WELCH, JENNIFER N

ART UNIT	PAPER NUMBER
2143	

NOTIFICATION DATE	DELIVERY MODE
10/21/2025	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):

docketing@youngbasile.com

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 1 of 547

UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	ISSUE DATE	PATENT NO.
17/472,033	21-Oct-2025	12452323

Zoom Communications, Inc. at Young Basile
Troy, MI 48084

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

Zoom Communications, Inc. v. Ricoh Company, Ltd.
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UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/472,033	10/21/2025	12452323	ZOOM-164-C	1532

177453 7590 10/08/2025

Zoom Communications, Inc. at Young Basile
3001 West Big Beaver Rd., Ste. 624
Troy, MI 48084

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 3 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):

Nick Swerdlow, Santa Clara, CA;

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

Zoom Communications, Inc., San Jose, CA;

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

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 4 of 547

PART B–FEE(S) TRANSMITTAL

Complete and send this form, together with the applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 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)

YOUNG BASILE HANLON & MACFARLANE, P.C.
3001 West Big Beaver Rd.
Suite 624
Troy, Michigan 48084

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

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system 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
17/472,033	09/10/2021	Nick Swerdlow	ZOOM-164-C	1532

TITLE OF INVENTION: Previewing Conference Items Prior To Joining A Conference

APPLN: TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1,290.00			$1,290.00	09/26/2025

EXAMINER	ART UNIT	CLASS-SUBCLASS
P. D. Patel	2143	

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363)

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-09 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. Young Basile Hanlon & MacFarlane, P.C.
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: Zoom Communications, Inc.

(B) RESIDENCE: (CITY and STATE or COUNTRY): San Jose, California

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 the USPTO patent electronic filing system ☐ 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. 25-0115

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29. 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.

☐ Applicant asserting small entity status. See 37 CFR 1.27. NOTE: If the application was previously under micro entity status, checking this box will be taken as a notification of loss of entitlement to micro entity status.

☐ Applicant changing to regular undiscounted fee status. NOTE: Checking this box will be taken as 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 /Neil C. Maskeri/ Date September 24, 2025

Typed or printed name Neil C. Maskeri Registration No. 61,591

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 5 of 547

UNITED STATES
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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/472,033	**09/24/2025 04:57:35 PM Z ET**	**ZOOM-164-C**

Title of Invention

Previewing Conference Items Prior To Joining A Conference

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1532	FILED BY	Jessica Tumblin
PATENT CENTER #	72436512	AUTHORIZED BY	Neil Maskeri
CUSTOMER #	177453	FILING DATE	09/10/2021
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Nick Swerdlow

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 250115	**E20259NG57505486**	**Jessica Tumblin**

PRE-AUTHORIZED ACCOUNT	PRE-AUTHORIZED CATEGORY
250115	**37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees); 37 CFR 1.19 (Document supply fees); 37 CFR 1.20 (Post Issuance fees); 37 CFR 1.21 (Miscellaneous fees and charges)**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
1501	UTILITY ISSUE FEE	1290.00	1	1290.00
			TOTAL AMOUNT:	**¤1,290.00**

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

New Applications Under 35 U.S.C. 111

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

Receipt will establish the filing date of the application

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

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

New International Application Filed with the USPTO as a Receiving Office

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

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/472,033	**09/24/2025 04:57:35 PM Z ET**	**ZOOM-164-C**

Title of Invention

Previewing Conference Items Prior To Joining A Conference

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1532	FILED BY	Jessica Tumblin
PATENT CENTER #	72436512	FILING DATE	09/10/2021
CUSTOMER #	177453	FIRST NAMED INVENTOR	Nick Swerdlow
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Neil Maskeri

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
Issue Fee Transmittal-73698187.pdf	1	Issue Fee Payment (PTO-85B)	39 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
Issue Fee Transmittal-73698187.pdf	7760662FF8CDBFE7033A79E611A4D9C368859F80622ED69DC3D87E1F74B392BB7F1D31C8F2C78BC730AB68299BC969BF6E9939E277EBE0D217E0EF08F328AA24

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.

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

New International Application Filed with the USPTO as a Receiving Office

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
17/472,033	09/10/2021	2143	1820	ZOOM-164-C	20	3

CONFIRMATION NO. 1532

CORRECTED FILING RECEIPT

177453
Zoom Communications, Inc. at Young Basile
3001 West Big Beaver Rd., Ste. 624
Troy, MI 48084

OC00000090930047

Date Mailed: 07/01/2025

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Nick Swerdlow, Santa Clara, CA;

Applicant(s)

Zoom Communications, Inc., San Jose, CA;

Power of Attorney: The patent practitioners associated with Customer Number 177453

Domestic Applications for which benefit is claimed - None.
A proper domestic benefit claim must be provided in an Application Data Sheet in order to constitute a claim for domestic benefit. See 37 CFR 1.76 and 1.78.

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) **- None.**
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 10 of 547

If Required, Foreign Filing License Granted: 09/21/2021

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/472,033**

Projected Publication Date: Not Applicable.

Non-Publication Request: No

Early Publication Request: No

Title

Previewing Conference Items Prior To Joining A Conference

Preliminary Class

715

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

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

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 11 of 547

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

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

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

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

NOT GRANTED

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

SelectUSA

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

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 12 of 547

UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

177453 7590 06/26/2025

Zoom Communications, Inc. at Young Basile
3001 West Big Beaver Rd., Ste. 624
Troy, MI 48084

EXAMINER	
WELCH, JENNIFER N	
ART UNIT	PAPER NUMBER
2143	

DATE MAILED: 06/26/2025

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/472,033	09/10/2021	Nick Swerdlow	ZOOM-164-C	1532

TITLE OF INVENTION: Previewing Conference Items Prior To Joining A Conference

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1290	$0.00	$0.00	$1290	09/26/2025

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.

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 13 of 547

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

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)

177453 7590 06/26/2025

Zoom Communications, Inc. at Young Basile
3001 West Big Beaver Rd., Ste. 624
Troy, MI 48084

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

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system 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.
17/472,033	09/10/2021	Nick Swerdlow	ZOOM-164-C	1532

TITLE OF INVENTION: Previewing Conference Items Prior To Joining A Conference

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1290	$0.00	$0.00	$1290	09/26/2025

EXAMINER	ART UNIT	CLASS-SUBCLASS
WELCH, JENNIFER N	2143	715-753000

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 the USPTO patent electronic filing system ❑ 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

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.

❑ Applicant asserting small entity status. See 37 CFR 1.27

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.

❑ Applicant changing to regular undiscounted fee 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. _____

PTOL-85 Part B (11/23) Approved for use through 03/31/2026 OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 14 of 547

UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/472,033	09/10/2021	Nick Swerdlow	ZOOM-164-C	1532

177453 7590 06/26/2025

Zoom Communications, Inc. at Young Basile
3001 West Big Beaver Rd., Ste. 624
Troy, MI 48084

EXAMINER	
WELCH, JENNIFER N	

ART UNIT	PAPER NUMBER
2143	

DATE MAILED: 06/26/2025

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.

Zoom Communications, Inc. v. Ricoh Company, Ltd.
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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. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/ owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013).
https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

Routine uses of the information in this record may include disclosure to:

1) law enforcement, in the event that the system of records indicates a violation or potential violation of law;
2) a federal, state, local, or international agency, in response to its request;
3) a contractor of the USPTO having need for the information in order to perform a contract;
4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record;
5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;
6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;
7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;
8) 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));
9) the Office of Personnel Management (OPM) for personnel research purposes; and
10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Notice of Allowability	Application No. 17/472,033	Applicant(s) Swerdlow, Nick	
	Examiner JENNIFER N WELCH	Art Unit 2143	AIA (First Inventor to File) 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 communication filed 12/19/2024 and telephone intervivew 06/11/2025.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

3. ☑ The allowed claim(s) is/are 1-20 . 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 10/03/2024.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☑ Interview Summary (PTO-413), Paper No./Mail Date. 20250611.
5. ☑ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/JENNIFER N WELCH/
Supervisory Patent Examiner, Art Unit 2143

Zoom Communications, Inc. v. Ricoh Company, Ltd.
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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.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee. Authorization for this examiner's amendment was given in an interview with Mr. Neil Maskeri, Reg. No. 61,591 on 06/11/2025.

3. The claims have been amended as follows:

1. (Currently Amended) A method, comprising:

facilitating a first conference that includes a client device;

obtaining a conference item associated with a second conference that is in progress;

during the first conference and prior to the client device connecting to the second conference without joining the second conference:

detecting an initiation of a screen share in the second conference;

determining that a substantive portion of the second conference has started based on the screen share, the substantive portion of the second conference associated with an agenda item;

transmitting a notification to the client device that indicates that the substantive portion of the second conference has started;

transmitting, to the client device, a first graphical output for display on a panel interface associated with the second conference, the panel interface having a first portion and is expandable to

display a second portion, ~~wherein the panel interface is a persistent panel that remains in view at all times on a display of the client device~~;

receiving, at a server, a request from the client device to view the conference item; and

transmitting, from the server, a second graphical output to the client device based on the request to display the conference item on the second portion of the panel interface prior to the client device connecting to the second conference, wherein the second portion is an expanded portion of the panel interface to display the conference item.

2. (Original) The method of claim 1, wherein the conference item is an editable document.

3. (Previously Presented) The method of claim 1, wherein the conference item is an editable document, the method comprising:

transmitting a notification to participant client devices, wherein the notification indicates that the editable document has been modified.

4. (Original) The method of claim 1, wherein the conference item is at least one of an agenda, a real-time transcript, a downloadable file, or a real-time presentation.

5. (Currently Amended) The method of claim 1, wherein the panel interface is a persistent panel that remains in view at all times on a display of the client device ~~comprising:~~

~~detecting an initiation of a screen share in the second conference;~~

~~determining that a substantive portion of the second conference has started based on the screen share, the substantive portion of the second conference associated with an agenda item; and~~

~~transmitting a notification to the client device that indicates that the substantive portion of the second conference has started~~.

6. (Currently Amended) The method of claim 1, comprising:

detecting a voice in an audio portion of the second conference;

converting the voice to text;

comparing the text to the conference item, wherein the conference item is an agenda; and

determining that a substantive portion of the second conference has started based on the comparison~~, the substantive portion of the second conference associated with an agenda item; and~~

~~transmitting a notification to the client device that indicates that the substantive portion of the second conference has started~~.

7. (Currently Amended) The method of claim 1, ~~wherein the display of the client device includes a panel interface associated with the second conference, wherein the panel interface includes a first portion and a second portion~~first graphical output is displayed on the first portion of the panel interface.

8. (Currently Amended) The method of claim 1, wherein the second portion of the panel interface includes a thumbnail indicator that is a graphical representation of the conference item ~~display of the client device includes a panel interface associated with the second conference, wherein the panel interface includes a first portion and a second portion, and wherein the first graphical output is displayed on the first portion of the panel interface and the second graphical output is displayed on the second portion of the panel interface~~.

9. (Currently Amended) A system, comprising:

a server configured to:

facilitate a first conference that includes a client device;

obtain a conference item associated with a second conference that is in progress;

detect an initiation of a screen share in the second conference;

determine that a substantive portion of the second conference has started based on the screen share, the substantive portion of the second conference associated with an agenda item;

transmit a notification to the client device that indicates that the substantive portion of the second conference has started; and

transmit, during the first conference, a first graphical output based on the conference item prior to the client device connecting to the second conference;

a client device configured to display the first graphical output on a panel interface associated with the second conference prior to the client device connecting to the second conference without joining the second conference, the panel interface having a first portion and expandable to display a second portion~~, wherein the panel interface is a persistent panel that remains in view at all times on a display of the client device~~;

during the conference and prior to the client device joining the second conference, the server configured to:

receive a request from the client device to view the conference item; and

transmit a second graphical output to the client device based on the request; and

prior to the client device joining the second conference, the client device configured to:

display the conference item on the second portion of the panel interface, wherein the second portion is an expanded portion of the panel interface.

10. (Currently Amended) The system of claim 9, wherein the server is configured to:

detect a voice in an audio portion of the second conference;

convert the voice to text;

compare the text to the conference item, wherein the conference item is an agenda; and

determine that a substantive portion of the second conference has started based on the comparison~~, the substantive portion of the second conference associated with an agenda item; and~~

~~transmit a notification to the client device that indicates that the substantive portion of the second conference has started~~.

11. (Currently Amended) The system of claim 9, wherein the ~~server is configured to:~~

~~detect an initiation of a screen share in the second conference;~~

~~determine that a substantive portion of the second conference has started based on the screen share, the substantive portion of the second conference associated with an agenda item; and~~

~~transmitting a notification to the client device that indicates that the substantive portion of the second conference has started~~panel interface is a persistent panel that remains in view at all times on a display of the client device.

12. (Currently Amended) The system of claim 9, wherein the second portion of the panel interface includes a thumbnail indicator ~~is a visual indicator~~ that is a graphical representation of the conference item.

13. (Currently Amended) The system of claim 9, wherein the second portion of the panel interface includes a thumbnail indicator ~~is a visual indicator~~ that is a graphical representation of the conference item, and wherein the ~~visual~~ thumbnail indicator is at least one of an icon or a text representation of the conference item.

14. (Original) The system of claim 9, wherein the conference item is an editable document, the server configured to:

transmit a notification to participant client devices, wherein the notification indicates that the editable document has been modified.

15. (Original) The system of claim 9, wherein the conference item is at least one of an agenda, a real-time transcript, a downloadable file, or a real-time presentation.

16. (Currently Amended) A non-transitory computer-readable storage device including program instructions that, when executed by a processor, cause the processor to perform operations, the operations comprising:

facilitating a first conference that includes a client device;

obtaining a conference item associated with a second conference that is in progress;

during the first conference and prior to the client device connecting to the second conference without joining the second conference:

detecting an initiation of a screen share in the second conference;

determining that a substantive portion of the second conference has started based on the screen share, the substantive portion of the second conference associated with an agenda item;

transmitting a notification to the client device that indicates that the substantive portion of the second conference has started;

transmitting a first graphical output for display on a panel interface associated with the second conference, the panel interface having a first portion and expandable to display a second

portion~~, wherein the panel interface is a persistent panel that remains in view at all times on a display of the client device~~;

receiving, at a server, a request from the client device to view the conference item; and

transmitting, from the server, a second graphical output to the client device to display the conference item on the second portion of the panel interface prior to the client device connecting to the second conference, wherein the second portion is an expanded portion of the panel interface to display the conference item.

17. (Currently Amended) The non-transitory computer-readable storage device of claim 16, wherein the program ~~instructions, when executed by the processor, cause the processor to perform operations, the operations comprising:~~

~~detecting an initiation of a screen share in the second conference;~~

~~determining that a substantive portion of the second conference has started based on the screen share, the substantive portion of the second conference associated with an agenda item; and~~

~~transmitting a notification to the client device that indicates that the substantive portion of the second conference has started~~panel interface is a persistent panel that remains in view at all times on a display of the client device.

18. (Currently Amended) The non-transitory computer-readable storage device of claim 16, wherein the program instructions, when executed by the processor, cause the processor to perform operations, the operations comprising:

detecting a voice in an audio portion of the second conference;

converting the voice to text;

comparing the text to the conference item, wherein the conference item is an agenda; and

determining that a substantive portion of the second conference has started based on the comparison~~, the substantive portion of the second conference associated with an agenda item; and~~

~~transmitting a notification to the client device that indicates that the substantive portion of the second conference has started~~.

19. (Currently Amended) The non-transitory computer-readable storage device of claim 16, wherein the second portion of the panel interface includes a thumbnail indicator ~~is a visual indicator~~ that is a graphical representation of the conference item.

20. (Currently Amended) The non-transitory computer-readable storage device of claim 19, wherein the second portion of the panel interface includes a thumbnail indicator ~~is a visual indicator~~ that is a graphical representation of the conference item, and wherein the ~~visual~~ thumbnail indicator is at least one of an icon or a text representation of the conference item.

4. The following is an examiner's statement of reasons for allowance:

In addition to applicant's remarks, the prior arts of record, including the newly cited prior art, when taken individually or in combination do not expressly teach or render obvious the limitations recited in independent claims 1, 9 and 16 **when taken in the context of the claims as a whole**.

At best, the newly cited prior arts of record, specifically Bentley et al (US Publication No. 2013/0254279) discloses a system for scheduling and conducting concurrence electronic conferences with a "peek" capability where the attendee can determine more precisely when their attendance is needed and attend meetings or sub-meetings only closer to or when their attendance is needed. Bentley's system allows attendees to peek into the meeting without connecting to the meeting to see the current status and decide whether to join the meeting at that time (see abstract, paragraphs 0039,

0083, 0084, 0085, 0086, 0087). Zeng (US Publication No. 2013/0100237) discloses a system for switching conferences where the image (status, progress) of a conference can be view by the user before joining the conference while the user attending another conference (see paragraph 0083).

In addition, the references uncovered have no provided a basis of evidence for asserting a motivation for one of ordinary skill in the art before the effective filing date of the invention, knowing the teachings of the prior art of record, to have combined them to arrive at the present invention as recited in the context of the independent claims 1, 9, and 16 as a whole.

Thus, claims 1-20 are allowed over the prior arts of record.

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."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JENNIFER WELCH whose telephone number is (571)272-7212. The examiner can normally be reached Monday-Thursday 5:30AM-3:30PM ET.

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, DAVID WILEY can be reached at (571) 272-4150. 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 USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JENNIFER N WELCH/
Supervisory Patent Examiner, Art Unit 2143

-Initiated Interview Summary	Application No. 17/472,033	Applicant(s) Swerdlow, Nick		
	Examiner JENNIFER N WELCH	Art Unit 2143	AIA (First Inventor to File) Status Yes	Page 1 of 1

All Participants (applicant, applicants representative, PTO personnel)	Title	Type
JENNIFER N WELCH	SPE	Telephonic
NEIL C. MASKERI	Attorney of Record	

Date of Interview: 11 June 2025

Issues Discussed:

Proposed Amendment(s)

In the interest of compact prosecution, Examiner and Applicant discussed the proposed amendment based on newly found reference Bentley et al US 20130254279. Applicant and Examiner reach an agreement based on the discussion. Applicant authorized for the examiner's amendment.

	/JENNIFER N WELCH/ Supervisory Patent Examiner, Art Unit 2143

Applicant is reminded that a complete written statement as to the substance of the interview must be made of record in the application file. It is the applicants responsibility to provide the written statement, unless the interview was initiated by the Examiner and the Examiner has indicated that a written summary will be provided. See MPEP 713.04
Please further see:
MPEP 713.04
Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews, paragraph (b)
37 CFR § 1.2 Business to be transacted in writing

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

Zoom Communications, Inc. v. Ricoh Company, Ltd.
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Notice of References Cited	Application/Control No. 17/472,033	Applicant(s)/Patent Under Reexamination Swerdlow, Nick	
	Examiner JENNIFER N WELCH	Art Unit 2143	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Name	CPC Classification	US Classification
*	A	US-20140150059-A1	2014-05-29	Uchida; Yuki	H04L63/08	707/661
*	B	US-20230096134-A1	2023-03-30	Swerdlow; Nick	H04L12/1822	709/204
*	C	US-20230078792-A1	2023-03-16	Swerdlow; Nick	G06Q10/1095	709/204
*	D	US-11824671-B2	2023-11-21	Swerdlow; Nick	H04L12/1818	1/1
*	E	US-11863333-B2	2024-01-02	Swerdlow; Nick	H04L51/046	1/1
*	F	US-20190013955-A1	2019-01-10	Yoo; Oui-Sik	H04L12/1822	1/1
*	G	US-8589487-B1	2013-11-19	Reeves; Raymond Emilio	H04L65/1069	709/204
*	H	US-20220321616-A1	2022-10-06	Chopdekar; Sandesh	H04L65/4015	1/1
*	I	US-9165290-B2	2015-10-20	Wessling; Cynthia	H04L12/1827	1/1
*	J	US-20130254279-A1	2013-09-26	Bentley; Jon L.	H04L65/403	709/204
*	K	US-20130100237-A1	2013-04-25	ZENG; Jianhong	H04N7/14	348/14.08
	L					
	M					

FOREIGN PATENT DOCUMENTS

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

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*		Include as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages
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Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 29 of 547

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/472,033	Swerdlow, Nick
	Examiner	Art Unit
	JENNIFER N WELCH	2143

CPC - Searched*		
Symbol	**Date**	**Examiner**
H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166	11/17/2022	PP
H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166	06/01/2023	PP
H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166	11/03/2023	PP
H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166	05/24/2024	PP
H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166	09/09/2024	PP
H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166	06/10/2025	JW

CPC Combination Sets - Searched*		
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Class	**Subclass**	**Date**	**Examiner**

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Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 30 of 547

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/472,033	Swerdlow, Nick
	Examiner	Art Unit
	JENNIFER N WELCH	2143

Search Notes		
Search Notes	**Date**	**Examiner**
PE2E search including limited text search combine with CPC symbols using East databases (USPGPUB; USPAT; FPRS; USOCR; EPO; JPO)	11/17/2022	PP
Use PE2E SEARCH and PALM to search inventors and assignee	11/17/2022	PP
Use google scholar to search prior arts	11/17/2022	PP
PE2E search including limited text search combine with CPC symbols using PE2E databases (USPGPUB; USPAT; FPRS; USOCR; EPO; JPO)	05/31/2023	PP
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PE2E search including limited text search combine with CPC symbols using PE2E databases (USPGPUB; USPAT; FPRS; USOCR; EPO; JPO)	11/03/2023	PP
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PE2E search including limited text search combine with CPC symbols using PE2E databases (USPGPUB; USPAT; FPRS; USOCR; EPO; JPO)	09/09/2024	PP
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Use google scholar to search prior arts	09/26/2024	PP
Inventor/Assignee Search (PE2E Search, DAV)	06/09/2025	JW
Combined Text with CPC symbols search (PE2E Search)	06/10/2025	JW
NPL search (Google Scholar)	06/12/2025	JW

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/472,033	Swerdlow, Nick
	Examiner	Art Unit
	JENNIFER N WELCH	2143

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
H04L	65/403	06/12/2025	JW
G06F	3/1454	06/12/2025	JW
G10L	15/26	06/12/2025	JW
G10L	15/10	06/12/2025	JW
G06F	40/166	06/12/2025	JW

	/JENNIFER N WELCH/ Supervisory Patent Examiner, Art Unit 2143

Zoom Communications, Inc. v. Ricoh Company, Ltd.
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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/472,033	Swerdlow, Nick
	Examiner	**Art Unit**
	JENNIFER N WELCH	2143

CPC						
Symbol					**Type**	**Version**
H04L	/	65	/	403	F	2013-01-01
G06F	/	3	/	1454	I	2013-01-01
G10L	/	15	/	10	I	2013-01-01
G10L	/	15	/	26	I	2013-01-01
G06F	/	40	/	166	A	2020-01-01

CPC Combination Sets							
Symbol					**Type**	**Set**	**Ranking**	**Version**
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NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/JENNIFER N WELCH/ Supervisory Patent Examiner, Art Unit 2143	12 June 2025	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	7

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Zoom Communications, Inc. v. Ricoh Company, Ltd.
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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/472,033	Swerdlow, Nick
	Examiner	Art Unit
	JENNIFER N WELCH	2143

INTERNATIONAL CLASSIFICATION				
CLAIMED				
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NON-CLAIMED				
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US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

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

NONE (Assistant Examiner) (Date)	Total Claims Allowed: 20	
/JENNIFER N WELCH/ Supervisory Patent Examiner, Art Unit 2143 (Primary Examiner) (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 7

Zoom Communications, Inc. v. Ricoh Company, Ltd.
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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/472,033	Swerdlow, Nick
	Examiner	**Art Unit**
	JENNIFER N WELCH	2143

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

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		10		19										
	2		11		20										
	3		12												
	4		13												
	5		14												
	6		15												
	7		16												
	8		17												
	9		18												

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	20	
/JENNIFER N WELCH/ Supervisory Patent Examiner, Art Unit 2143	12 June 2025	O.G. Print Claim(s)	O.G. Print Figure
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17472033
Filing Date	2021-09-10
First Named Inventor	Nick Swerdlow
Art Unit	2143
Examiner Name	P. D. Patel
Attorney Docket Number	ZOOM-164-C

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/J.N.W/	1	10616369		2020-04-07	d'Andrea et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17472033
	Filing Date	2021-09-10
	First Named Inventor	Nick Swerdlow
	Art Unit	2143
	Examiner Name	P. D. Patel
	Attorney Docket Number	ZOOM-164-C

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(Not for submission under 37 CFR 1.99)

Application Number	17472033
Filing Date	2021-09-10
First Named Inventor	Nick Swerdlow
Art Unit	2143
Examiner Name	P. D. Patel
Attorney Docket Number	ZOOM-164-C

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

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☐ An identification of an earlier application pursuant to 37 CFR 1.98 (d) (1) is attached.

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

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S Veerapandian, H Kaur, A Madhvarayan... - 2021 - books.google.com

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A Guilmette, Y Lee, G Ollasani, A Aviles - 2022 - books.google.com

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E Bergman - 2021 - diva-portal.org

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Intention to use **Microsoft teams** in the online learning system for students of Universitas Tarumanagara during the COVID-19 pandemic

K Laurencia, S Sudarto - ... Conference on Economics, Business ..., 2021 - atlantis-press.com

... available as a **preview** to eligible Office 365 commercial ... The presence of the **Microsoft Teams** platform can be an option ... the system available on the **Microsoft Teams** platform. There are ...

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Hands-on **Microsoft Teams**: A practical guide to enhancing enterprise collaboration with **Microsoft Teams** and Office 365

J Ferreira - 2020 - books.google.com

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IPR2026-00407 | EX2009 | Page 41 of 547

Meeting browser: Tracking and summarizing **meetings**
A Waibel, M Bett, M Finke, R Stiefelhagen - Proceedings of the DARPA ..., 1998 - ri.cmu.edu
... generate a query **around** which we can ... **turn that** has not previously been included in the summary is weighted. We count the number of occurrences of the common word stem in the **turn**...
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Meeting browsing: State-of-the-art review
MM Bouamrane, S Luz - Multimedia Systems, 2007 - Springer
... reasonable to assume **that** audio segments in **close** time proximity ... (ASR) has made significant **progress** in the last decade, ... to **determine whether** they coincide with a topical **change**. In ...
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Marking time: Predictable transitions in task groups
CJG Gersick - Academy of Management journal, 1989 - journals.aom.org
... **meetings** and interviews suggested **that** major **progress** occurred when and because members felt particularly strongly **that** it was time to **move** ... **that's** one limitation we can't get **around** ...
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Time and transition in work teams: Toward a new model of group development
CJG Gersick - Academy of Management journal, 1988 - journals.aom.org
... view of teams' **progress** across all **meetings**, yet documented ... Sandra: And **that's** the issue we talk about, and walk **around** ... this **meeting**, members confirmed their intentions to **move** to ...
☆ Save 99 Cite Cited by 4267 Related articles All 14 versions »

The secrets of facilitation: The SMART guide to getting results with groups
M Wilkinson - 2012 - books.google.com
... to **turn** a "good" **meeting** into a "great" **meeting**. It's awesome ... , the effectiveness of the solution would have been **near** zero. ... Let's **preview** the chapters and the insights found in each. ...
☆ Save 99 Cite Cited by 125 Related articles All 4 versions »

Side views: persistent, on-demand **previews** for open-ended tasks
M Terry, EO Mynatt - Proceedings of the 15th annual ACM symposium ..., 2002 - dl.acm.org
... Evaluation serves to **assess** one's **progress** with respect to the ... For example, in image toning an individual may **assess** one's **progress** ... We **turn** now to a detailed description of its design. ...
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Providing artifact awareness to a distributed group through screen sharing
K Tee, S Greenberg, C Gutwin - ... of the 2006 20th anniversary conference ..., 2006 - dl.acm.org
... , to monitor **progress** and coordinate joint tasks, to help **determine** ... **replace** a screen shot **that** she did not want others to **see**, or (... and much more detailed **preview** of the captured display (...
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Approaching and leave-taking: Negotiating contact in computer-mediated communication
JC Tang - ACM Transactions on Computer-Human Interaction ..., 2007 - dl.acm.org
... a **progression** of design ideas **that** suggests ... **conferences**, which is less than the conversion rate of the DCP (43%). There are several reasons **that** explain why a glance did not **convert** ...
☆ Save 99 Cite Cited by 77 Related articles All 6 versions »

Evaluation: Review of the past, **preview** of the future
MF Smith - Evaluation Practice, 1994 - journals.sagepub.com
... **switch** is **that** we did not have adequate research designs to ... is, more **progress** may have ensued in some arenas of social ... I have to also say **that** in the **near** past, at least at my institution...
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Recognizing creative needs in user interface design

M Terry, ED Mynatt - Proceedings of the 4th Conference on Creativity & ..., 2002 - dl.acm.org

... impose a linear **progression** through tasks **that** is a poor fit for ... We then **turn** to an analysis of the ways interfaces support or ... choosing parameters **that** shows a spectrum of **previews** for a ...

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Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 43 of 547

Bibliographic Data

Application No: 17/472,033

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /JENNIFER N WELCH/ Examiner's Signature | Initials

Title: Previewing Conference Items Prior To Joining A Conference

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FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
09/10/2021	715	2143	ZOOM-164-C
RULE			

APPLICANTS

Zoom Video Communications, Inc., San Jose, CA,

INVENTORS

Nick Swerdlow, Santa Clara, CA, UNITED STATES

CONTINUING DATA

FOREIGN APPLICATIONS

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STATE OR COUNTRY

UNITED STATES

ADDRESS

Zoom Communications, Inc. at Young Basile
3001 West Big Beaver Rd., Ste. 624
Troy, MI 48084
UNITED STATES

FILING FEE RECEIVED

$1,820

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	1	"17472033"	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/06/05 03:29 PM
L2	65	Swerdlow NEAR Nick.inv.	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/09 03:54 PM
L3	24	Swerdlow NEAR Nick.inv.	(USPAT)	OR	ON	ON	2025/06/09 03:56 PM
L4	603	Zoom.as.	(USPAT)	OR	ON	ON	2025/06/09 04:02 PM
L5	12	L4 AND preview$3 WITH conference	(USPAT)	OR	ON	ON	2025/06/09 04:07 PM
L6	1	L4 AND (preview$3 WITH conference.ab.)	(USPAT)	OR	ON	ON	2025/06/09 04:07 PM
L7	36	("6853398" | "7603412" | "8437461" | "8589487" | "9065874" | "9146115" | "9165290" | "9699411" | "9912777" | "10320856" | "10554728" | "10592867" | "11144887" | "11245735" | "11349679" | "11488634" | "20030097217" | "20030189601" | "20050069116" | "20070239827" | "20100037151" | "20100153160" | "20100198646" | "20100274855" | "20110107228" | "20110161834" | "20120150577" | "20120185534" | "20150088572" | "20150281149" | "20180039951" | "20190392395" | "20220078039" | "20220141044" | "20220321616").pn. OR ("11863333").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/06/09 04:10 PM
L8	64	(prior before) near2	(US-PGPUB; USPAT;	OR	ON	ON	2025/06/09

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		conferences WITH preview$3	USOCR)				04:42 PM
L9	0	preview$ NEAR next ADJ conference	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/06/09 05:19 PM
L10	9	preview$ WITH next ADJ conference	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/06/09 05:20 PM
L11	10	"20130254279"	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 01:02 PM
L12	10644	(conference meeting) NEAR (cloud server)	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 02:00 PM
L13	55698	(H04L65/403 OR G06F3/1454 OR G10L15/10 OR G10L15/26 OR G06F40/166 OR H04L65/1093).cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 02:01 PM
L14	1985	L12 AND L13	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 02:02 PM
L15	350973	current$3 near3 present$5	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 02:03 PM
L16	117	L12 SAME L15	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 02:03 PM
L17	75	L12 SAME L15 AND L13	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 02:03 PM
L18	652	(before prior) adj3 (join$3 attend$3) adj2 (conference meeting)	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 02:40 PM
L19	278	(before prior) adj3 (join$3 attend$3) adj2 (conference meeting) AND L13	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 02:41 PM
L20	18	L19 AND preview$3	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 02:42 PM
L21	321	(sneak$3 peek$3 preview$3) near4 current$2 near2 (present$5)	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 02:45 PM
L22	0	(sneak$3 peek$3 preview$3) near4 current$2 near2 (present$5) AND L12	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 02:46 PM
L23	14	(sneak$3 peek$3 preview$3) near4 current$2 near2 (present$5) AND ((conference meeting) WITH (cloud server))	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 02:47 PM
L24	281	(sneak$3 adj2 preview) AND (conference meeting)	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 02:50 PM
L25	9	(sneak$3 adj2 preview) SAME (conference	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 02:51 PM

		meeting)					
L26	9	(sneak$3 adj2 preview$3) SAME (conference meeting)	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 02:51 PM
L27	915	whether adj4 (join$3 participat$3) near2 (meeting conference)	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 03:01 PM
L28	21	("2013/0254279").urpn. AND (PGPB | USPT | USOC).dbnm	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/06/10 04:24 PM
L29	37	"20200403817"	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/06/10 04:26 PM
L30	36	"20200403817"	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 04:26 PM
L31	1	concurrently ADJ (meetings conferences) WITH display	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 04:28 PM
L32	15	concurrently ADJ (meetings conferences) SAME display	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 04:28 PM
L33	64858	(meetings conferences) WITH display	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 04:29 PM
L34	2	breakrooms WITH interface	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 04:37 PM
L35	127	breakrooms WITH conferences	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 04:37 PM
L36	0	breakrooms WITH conferences SAME interface WITH panels	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 04:38 PM
L37	2	breakrooms WITH conferences SAME interface	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 04:38 PM
L38	0	"2005069116"	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 05:16 PM
L39	5	"20050069116"	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/10 05:16 PM
L40	94	whether adj2 switch$3 adj3 (meeting conference)	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/06/12 08:13 AM
L41	2	whether adj2 switch$3 adj3 (meeting conference) AND L13	(US-PGPUB; USPAT; USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/06/12 08:13 AM
L42	72	whether adj2 switch$3	(US-PGPUB; USPAT;	OR	ON	ON	2025/06/12

		adj3 (meeting conference) AND (@ad @prad @rlad) <20210909	USOCR; FIT (CN, FR, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				08:14 AM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N1	16	(whether adj2 switch$3 adj3 (meeting conference) AND (@ad @prad @rlad) <20210909)	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/12 08:34 AM
N2	55734	(H04L65/403 OR G06F3/1454 OR G10L15/10 OR G10L15/26 OR G06F40/166 OR H04L65/1093).cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/12 08:35 AM
N3	322	(sneak$3 peek$3 preview$3) near4 current$2 near2 (present$5)	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/12 08:36 AM
N4	26	(sneak$3 peek$3 preview$3) near4 current$2 near2 (present$5) AND N2	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/12 08:36 AM
N5	64	(prior before) near2 conferences WITH preview$3	(US-PGPUB; USPAT)	OR	ON	ON	2025/06/12 08:39 AM

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/472,033	**02/04/2025 04:32:12 PM Z ET**	**ZOOM-164-C**

Title of Invention

Previewing Conference Items Prior To Joining A Conference

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1532	FILED BY	Jessica Tumblin
PATENT CENTER #	69046823	FILING DATE	09/10/2021
CUSTOMER #	177453	FIRST NAMED INVENTOR	Nick Swerdlow
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Neil Maskeri

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
Application Data Sheet-80942500.pdf	1	Application Data Sheet	46 KB
Warning: This is not a USPTO supplied ADS fillable form. Data in the form cannot be automatically loaded to other USPTO systems.			
Request for Applicant-Related Correction-80970484.pdf	1	Request under 37CFR1.46(c) to correct, update, change applicant	62 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
Application Data Sheet-	939042C377B79C10AC9999CB567F6A90F100D04FA4D36E7CB

80942500.pdf	DADF8D3989BFDB59C6BD2BF209802247B2AF70612A791B48D0812FB7655DF18096A9D2CE4B5EE7E
Request for Applicant-Related Correction-80970484.pdf	88A058DB78C1048E5260E3C2385E38FFD9C85E661D217AD248E8B40C2D32694BC99A5ECDED0FD25D87CDFE5DEE63F2DBD2232CB224CB9CB34B5A39BB0BF725DA

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

New Applications Under 35 U.S.C. 111

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

Corrected Application Data Sheet

Applicant Information

Applicant Number::	1
Applicant Type::	Assignee
Organization Name::	~~Zoom Video Communications, Inc.~~ Zoom Communications, Inc.
Street of mailing address::	55 Almaden Blvd.
	6th Floor
City of mailing address::	San Jose
State or Province of mailing address::	CA
Country of mailing address::	US
Postal or Zip Code of mailing address::	95113
Phone Number::	(248) 649-3333
Fax Number::	(248) 649-3338

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Neil C. Maskeri/	Date (YYYY-MM-DD)	2025-02-04
Name	Neil C. Maskeri	Registration Number	61,591

Zoom Communications, Inc. v. Ricoh Company, Ltd.
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Doc Code: R46C.REQ
Document Description: Request under 37 CFR 1.46(c) to correct, update or change the applicant.

PTO/AIA/41 (04-15)
Approved for use through 05/31/2024. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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.

REQUEST TO CORRECT OR UPDATE THE NAME OF THE APPLICANT UNDER 37 CFR 1.46(c)(1), OR CHANGE THE APPLICANT UNDER 37 CFR 1.46(c)(2) (FOR USE ONLY IN APPLICATIONS FILED ON OR AFTER SEPTEMBER 16, 2012)		
	Application Number	17/472,033
	Filing Date	September 10, 2021
	First Named Inventor	Nick Swerdlow
	Art Unit	2143
	Examiner Name	P. D. Patel
	Practitioner Docket Number	ZOOM-164-C

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

Applicant hereby **requests that the name of the applicant be corrected or updated under 37 CFR 1.46(c)(1), or that the applicant be changed under 37 CFR 1.46(c)(2),** in the above-identified application. **Requests under 37 CFR 1.46(c)(1) or (c)(2) cannot be submitted after payment of the issue fee or if the application has been patented.**

Please check the applicable box(es) below.

[X] 1. This request is to **correct or update the name of the applicant** (**under 37 CFR 1.46(c)(1)**) and includes:

[X] An application data sheet (ADS) in accordance with 37 CFR 1.76(c) with the corrected or updated information shown with markings (*e.g.*, underlining for insertions, strikethrough for deletions). A Corrected Web-based ADS may be used.

Note: Requests under 37 CFR 1.46(c)(1) may be filed to correct typographical errors in the name of the § 1.46 applicant, or for updating the name of the § 1.46 applicant (*i.e.,* where there is no change in the applicant itself but just in the applicant's name). See the Manual of Patent Examining Procedure (MPEP) section 605.01.

[ ] 2. This request is to **change the applicant** (**under 37 CFR 1.46(c)(2)**) and includes:

[ ] An application data sheet (ADS) in accordance with 37 CFR 1.76(c) that identifies the changes with proper markings (underlining for insertions and strikethrough for deletions). A Corrected Web-based ADS may be used.

[ ] A Statement Under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent). See MPEP 325.

I am the

[ ] applicant* [x] attorney or agent of record Registration number 61,591 [ ] attorney or agent acting under 37 CFR 1.34 Registration number _____

Signature /Neil C. Maskeri/

Typed or printed name Neil C. Maskeri

Date February 4, 2025

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. *Juristic entities must be represented by a patent practitioner (See 37 CFR 1.31, applicable to any paper filed on or after September 16, 2012 that is presented on behalf of a juristic entity, regardless of application filing date). Submit multiple forms if more than one signature is required, see below**.

[ ] ** Total of 1 forms are submitted.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Zoom Video Communications, Inc.
First Named Inventor:	Nick Swerdlow
Serial Number:	17/472,033
Filing Date:	September 10, 2021
Examiner/Art Unit:	Parmanand D. Patel / 2143 Conf. No.: 1532
Title:	Previewing Conference Items Prior to Joining a Conference

AMENDMENT

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

Commissioner:

In response to the Office Action dated October 1, 2024, please enter the remarks and amendments, if any, in the above-identified patent application as indicated below.

If any extensions of time are needed for timely acceptance of this reply and associated papers, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment from Deposit Account No. 25-0115. If any other fees must be paid in connection with this reply, Applicant authorizes payment from Deposit Account No. 25-0115.

☐ Amendments to the Abstract.

☐ Amendments to the Specification.

☒ Amendments to the Claims.

☐ Amendments to the Drawings.

Listing of the Claims:

1. (Currently Amended) A method, comprising:

facilitating a first conference that includes a client device;

obtaining a conference item associated with a second conference that is in progress;

during the first conference and prior to the client device connecting to the second conference without joining the second conference:

transmitting, to the client device, a first graphical output for display on a panel interface associated with the second conference, the panel interface having a first portion and is expandable to display a second portion, ~~the first portion including a thumbnail indicator of the conference item~~wherein the panel interface is a persistent panel that remains in view at all times on a display of the client device;

receiving, at a server, a request from the client device to view the conference item; and

transmitting, from the server, a second graphical output to the client device based on the request to display the conference item on the second portion of the panel interface prior to the client device connecting to the second conference, wherein the second portion is an expanded portion of the panel interface to display the conference item.

2. (Original) The method of claim 1, wherein the conference item is an editable document.

3. (Previously Presented) The method of claim 1, wherein the conference item is an editable document, the method comprising:

transmitting a notification to participant client devices, wherein the notification indicates that the editable document has been modified.

4. (Original) The method of claim 1, wherein the conference item is at least one of an agenda, a real-time transcript, a downloadable file, or a real-time presentation.

5. (Previously Presented) The method of claim 1, comprising:

detecting an initiation of a screen share in the second conference;

determining that a substantive portion of the second conference has started based on the screen share, the substantive portion of the second conference associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the second conference has started.

6. (Previously Presented) The method of claim 1, comprising:

detecting a voice in an audio portion of the second conference;

converting the voice to text;

comparing the text to the conference item, wherein the conference item is an agenda;

determining that a substantive portion of the second conference has started based on the comparison, the substantive portion of the second conference associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the second conference has started.

7. (Previously Presented) The method of claim 1, wherein the display of the client device includes a panel interface associated with the second conference, wherein the panel interface includes a first portion and a second portion.

8. (Previously Presented) The method of claim 1, wherein the display of the client device includes a panel interface associated with the second conference, wherein the panel interface includes a first portion and a second portion, and wherein the first graphical output is displayed on the first portion of the panel interface and the second graphical output is displayed on the second portion of the panel interface.

9. (Currently Amended) A system, comprising:

a server configured to:

facilitate a first conference that includes a client device;

obtain a conference item associated with a second conference that is in progress; and

transmit, during the first conference, a first graphical output based on the conference item prior to the client device connecting to the second conference;

a client device configured to display the first graphical output on a panel interface associated with the second conference prior to the client device connecting to the second conference without joining the second conference, the panel interface having a first portion and expandable to display a second portion, ~~the first portion including a thumbnail indicator of the conference item~~wherein the panel interface is a persistent panel that remains in view at all times on a display of the client device;

during the conference and prior to the client device joining the second conference, the server configured to:

receive a request from the client device to view the conference item; and

transmit a second graphical output to the client device based on the request; and

prior to the client device joining the second conference, the client device configured to:

display the conference item on the second portion of the panel interface, wherein the second portion is an expanded portion of the panel interface.

10. (Previously Presented) The system of claim 9, wherein the server is configured to:

detect a voice in an audio portion of the second conference;

convert the voice to text;

compare the text to the conference item, wherein the conference item is an agenda;

determine that a substantive portion of the second conference has started based on the comparison, the substantive portion of the second conference associated with an agenda item; and

transmit a notification to the client device that indicates that the substantive portion of the second conference has started.

11. (Previously Presented) The system of claim 9, wherein the server is configured to:

detect an initiation of a screen share in the second conference;

determine that a substantive portion of the second conference has started based on the screen share, the substantive portion of the second conference associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the second conference has started.

12. (Previously Presented) The system of claim 9, wherein the thumbnail indicator is a visual indicator that is a graphical representation of the conference item.

13. (Previously Presented) The system of claim 9, wherein the thumbnail indicator is a visual indicator that is a graphical representation of the conference item, and wherein the visual indicator is at least one of an icon or a text representation of the conference item.

14. (Original) The system of claim 9, wherein the conference item is an editable document, the server configured to:

transmit a notification to participant client devices, wherein the notification indicates that the editable document has been modified.

15. (Original) The system of claim 9, wherein the conference item is at least one of an agenda, a real-time transcript, a downloadable file, or a real-time presentation.

16. (Currently Amended) A non-transitory computer-readable storage device including program instructions that, when executed by a processor, cause the processor to perform operations, the operations comprising:

facilitating a first conference that includes a client device;

obtaining a conference item associated with a second conference that is in progress;

during the first conference and prior to the client device connecting to the second conference without joining the second conference:

transmitting a first graphical output for display on a panel interface associated with the second conference, the panel interface having a first portion and expandable to display a second portion, ~~the first portion including a thumbnail indicator of the conference item~~wherein the panel interface is a persistent panel that remains in view at all times on a display of the client device;

receiving, at a server, a request from the client device to view the conference item; and

transmitting, from the server, a second graphical output to the client device to display the conference item on the second portion of the panel interface prior to the client device connecting to the second conference, wherein the second portion is an expanded portion of the panel interface to display the conference item.

17. (Previously Presented) The non-transitory computer-readable storage device of claim 16, wherein the program instructions, when executed by the processor, cause the processor to perform operations, the operations comprising:

detecting an initiation of a screen share in the second conference;

determining that a substantive portion of the second conference has started based on the screen share, the substantive portion of the second conference associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the second conference has started.

18. (Previously Presented) The non-transitory computer-readable storage device of claim 16, wherein the program instructions, when executed by the processor, cause the processor to perform operations, the operations comprising:

detecting a voice in an audio portion of the second conference;

converting the voice to text;

comparing the text to the conference item, wherein the conference item is an agenda;

determining that a substantive portion of the second conference has started based on the comparison, the substantive portion of the second conference associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the second conference has started.

19. (Previously Presented) The non-transitory computer-readable storage device of claim 16, wherein the thumbnail indicator is a visual indicator that is a graphical representation of the conference item.

20. (Previously Presented) The non-transitory computer-readable storage device of claim 19, wherein the thumbnail indicator is a visual indicator that is a graphical representation of the conference item, and wherein the visual indicator is at least one of an icon or a text representation of the conference item.

REMARKS

In response to the Office Action dated October 1, 2024, Applicant amends claims 1, 9, and 16. No new matter is added. After entry of this Amendment, claims 1-20 are pending in the Application. Reconsideration of the Application as amended is respectfully requested in view of these remarks.

Rejections under 35 U.S.C. §103

Claims 1, 9, 12-13, 16, and 19-20 are rejected under 35 U.S.C. § 103 as being unpatentable over U.S. Patent Application Publication No. 2021/0258427 to Lee et al. ("Lee") in view of U.S. Patent Application Publication No. 2016/0269504 to Johar et al. ("Johar"), and in further view of U.S. Patent Application Publication No. 2020/0403817 to Daredia et al. ("Daredia").

Regarding claims 1, 9, and 16, Lee fails to disclose or suggest at least that the "panel interface is a persistent panel that remains in view at all times on a display of the client device," as claimed. Lee discloses a panel interface, but nothing in Lee would suggest that the panel interface is a persistent panel that remains in view at all times on a display of the client device. Johar and Daredia fail to overcome the deficiencies of Lee. Accordingly, the Applicant submits that claims 1, 9, and 16 are allowable over the cited references for at least these reasons.

Claims 2, 4, 7-8, and 15 are rejected under 35 U.S.C. § 103 as being unpatentable over Lee in view of Johar, in view of Daredia, as applied to claim 1 above, and in further view of U.S. Patent Application Publication No. 2010/0037151 to Ackerman et al. ("Ackerman").

Regarding claims 2, 4, 7-8, and 15, Ackerman fails to overcome the deficiencies of Lee, Johar, and Daredia. Accordingly, the Applicant submits that claims 2, 4, 7-8, and 15 are allowable over the cited references for at least the same reasons provided above.

Claims 3 and 14 are rejected under 35 U.S.C. § 103 as being unpatentable over Lee in view of Johar, in view of Daredia, as applied to claim 1 and 9 above, and in further view of U.S. Patent Application Publication No. 2015/0281149 to Masterson et al. ("Masterson").

Regarding claims 3 and 14, Masterson fails to overcome the deficiencies of Lee, Johar, and Daredia. Accordingly, the Applicant submits that claims 3 and 14 are allowable over the cited references for at least the same reasons provided above.

Claims 5, 11, and 17 are rejected under 35 U.S.C. § 103 as being unpatentable over Lee in view of Johar, view of Daredia, as applied to claim 1, 9, and 16 above, and in further view of U.S. Patent No. 11,245,735 to Kwatra et al. ("Kwatra").

Regarding claims 5, 11, and 17, Kwatra fails to overcome the deficiencies of Lee, Johar, and Daredia. Accordingly, the Applicant submits that claims 5, 11, and 17 are allowable over the cited references for at least the same reasons provided above.

Claims 6, 10, and 18 are rejected under 35 U.S.C. § 103 as being unpatentable Lee in view of Johar, in view of Daredia, as applied to claim 1, 9, and 16 above, and in further view of U.S. Patent No. 11,488,634 to Decrop et al. ("Decrop").

Regarding claims 6, 10, and 18, Decrop fails to overcome the deficiencies of Lee, Johar, and Daredia. Accordingly, the Applicant submits that claims 6, 10, and 18 are allowable over the cited references for at least the same reasons provided above.

Claims 2-8 are dependent upon claim 1. Claims 10-15 are dependent upon claim 9. Claims 17-20 are dependent upon claim 16. Applicant accordingly requests that the rejection of claims 1-20 under 35 U.S.C. § 103 be reconsidered and withdrawn.

Conclusion

It is submitted that this Amendment has antecedent basis in the application as originally filed, including the specification, claims and drawings, and that this Amendment does not add any new subject matter to the application. It is submitted that this Amendment places the application in suitable condition for allowance, notice of which is requested.

The Examiner is invited to contact the undersigned at the telephone number listed below if the Examiner believes an Examiner's amendment would expedite prosecution of the Application.

Respectfully submitted,

YOUNG BASILE
HANLON & MACFARLANE, P.C.

/Neil C. Maskeri/

Neil C. Maskeri
Registration No. 61,591
T: (248) 649-3333
F: (248) 649-3338

3001 West Big Beaver Road, Ste. 624
Troy, Michigan 48084-3107

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/472,033	**12/19/2024 01:29:07 PM Z ET**	**ZOOM-164-C**

Title of Invention

Previewing Conference Items Prior To Joining A Conference

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1532	FILED BY	Jessica Tumblin
PATENT CENTER #	68443851	FILING DATE	09/10/2021
CUSTOMER #	177453	FIRST NAMED INVENTOR	Nick Swerdlow
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Neil Maskeri

Documents

TOTAL DOCUMENTS: 3

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
ZOOM164C_Amd_20241001_20241219.pdf		10	-	61 KB
ZOOM164C_Amd_20241001_20241219-A....pdf	(1-1)	1	Amendment/Request for Reconsideration-After Non-Final Rejection	18 KB
ZOOM164C_Amd_20241001_20241219-CLM.pdf	(2-7)	6	Claims	49 KB
ZOOM164C_Amd_20241001_20241219-REM.pdf	(8-10)	3	Applicant Arguments/Remarks Made in an Amendment	21 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
ZOOM164C_Amd_20241001_20241219.pdf	7FFD01726F6CF5374A4F494D96FEE95759A54E1756997568AF4F8B62B6F0461C17500AC57F2AE7EE82C40444F9B6BF3163EA59772262BDAE6F92A7479278C6DF
ZOOM164C_Amd_20241001_20241219-A....pdf	BF764FBE3F8DA3E6BFC44A55A2BBA18B7BB3DE67282383B20822112A9EC76DF8EE62AC7D94B1233161520E86C5BEF48FC230B4AAE902F0A0CC4C738EEB1E2212
ZOOM164C_Amd_20241001_20241219-CLM.pdf	F8A294A232F8766A9CFA1D45F56DB29785757C76FCB9B7CF5C1B722BA0E3EB589FF8327E6A9C471363530B490C3277DABF46A42E83634B8EBDAA6D22A08EC0DF
ZOOM164C_Amd_20241001_20241219-REM.pdf	2C8A4E19F8B08239917F1EF78C5FC7E89ECD6BB1CA944F92A73B6E5B69F730321B2772AE4F563861915CB3DC2E67FEAE69214611119DBA9FF0C5DCD03ACA501B

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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.

PTO/SB/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 17/472,033	Filing Date 09/10/2021	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) 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), (i), 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 $100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $480 =	
☐ 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	12/19/2024	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $480 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(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".	/TAWANA E CAMPBELL/
*** 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.**

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/472,033	**10/03/2024 12:02:23 PM Z ET**	**ZOOM-164-C**

Title of Invention

Previewing Conference Items Prior To Joining A Conference

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1532	FILED BY	Jessica Tumblin
PATENT CENTER #	67423034	AUTHORIZED BY	Neil Maskeri
CUSTOMER #	177453	FILING DATE	09/10/2021
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Nick Swerdlow

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 250115	**E202403C02489911**	**Jessica Tumblin**

PRE-AUTHORIZED ACCOUNT	PRE-AUTHORIZED CATEGORY
250115	**37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees); 37 CFR 1.19 (Document supply fees); 37 CFR 1.20 (Post Issuance fees); 37 CFR 1.21 (Miscellaneous fees and charges)**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
1806	SUBMISSION OF AN INFORMATION DISCLOSURE STATEMENT	260.00	1	260.00
			TOTAL AMOUNT:	**$260.00**

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/472,033	**10/03/2024 12:02:23 PM Z ET**	**ZOOM-164-C**

Title of Invention

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PATENT CENTER #	67423034	FILING DATE	09/10/2021
CUSTOMER #	177453	FIRST NAMED INVENTOR	Nick Swerdlow
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Neil Maskeri

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
ZOOM164C_Information Disclosure Statement Fillable PDF _20241002.pdf	4	Information Disclosure Statement (IDS) Form (SB08)	1313 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
ZOOM164C_Information Disclosure Statement Fillable PDF _20241002.pdf	7705223DD086D77CE78A3B7E185356038918AB65C48284793B 4B44400C17316FA3264E9AD3D86C610F9B666EDD0A74475DF 06CF9447E411104FB243642642D06

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17472033
Filing Date	2021-09-10
First Named Inventor	Nick Swerdlow
Art Unit	2143
Examiner Name	P. D. Patel
Attorney Docket Number	ZOOM-164-C

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	10616369		2020-04-07	d'Andrea et al.	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17472033
	Filing Date	2021-09-10
	First Named Inventor	Nick Swerdlow
	Art Unit	2143
	Examiner Name	P. D. Patel
	Attorney Docket Number	ZOOM-164-C

	1		☐

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

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

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

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17472033
	Filing Date	2021-09-10
	First Named Inventor	Nick Swerdlow
	Art Unit	2143
	Examiner Name	P. D. Patel
	Attorney Docket Number	ZOOM-164-C

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

☒ A certification statement is not submitted herewith.

FEE

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

COPIES

☐ An identification of an earlier application pursuant to 37 CFR 1.98 (d) (1) is attached.

SIGNATURE

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

Signature	/Neil C. Maskeri/	Date (YYYY-MM-DD)	2024-10-03
Name/Print	Neil C. Maskeri	Registration Number	61,591

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

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 72 of 547

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/472,033	09/10/2021	Nick Swerdlow	ZOOM-164-C	1532

177453 7590 10/01/2024

Zoom Video Communications, Inc. at Young Basile
3001 West Big Beaver Rd., Ste. 624
Troy, MI 48084

EXAMINER	
PATEL, PARMANAND D	

ART UNIT	PAPER NUMBER
2143	

NOTIFICATION DATE	DELIVERY MODE
10/01/2024	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):

docketing@youngbasile.com

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 74 of 547

Office Action Summary	Application No. 17/472,033	Applicant(s) Swerdlow, Nick	
	Examiner PARMANAND D PATEL	Art Unit 2143	AIA (FITF) Status Yes

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

Period for Reply

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

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

Status

1)☑ Responsive to communication(s) filed on 08/21/2024.

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

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

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

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1-20 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-20 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

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

Application Papers

10)☐ The specification is objected to by the Examiner.

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

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

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

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

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

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

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date 08/21/2024.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

Zoom Communications, Inc. v. Ricoh Company, Ltd.
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DETAILED ACTION

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

Continued Examination under 37 CFR 1.1114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 21, 2024 has been entered.

Response to Amendment

3. The Amendment filed on 08/21/2024 has been entered.

4. Claims 1, 5-11 and 16-18 are amended. Claims 1-20 are pending in the application.

Information Disclosure Statement

5. The information disclosure statement (IDS) submitted on 08/21/2024 in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 103

6. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

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

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 1, 9, 12-13, 16 and 19-20 are rejected under 35 U.S.C. 103 as being unpatentable over Lee et al. (US Pub 2021/0258427) hereinafter Lee in view of Johar et al. (US Pub 2016/0269504) hereinafter Johar and further in view of Daredia et al. (US Pub 2020/0403817) hereinafter Daredia.

Regarding claim 1, Lee teaches, A method, comprising:

- facilitating a first conference that includes a client device (Lee; as shown in figure 3, display of a user's device for facilitating participation in multiple video conferences and display video feeds of conference participants in real time; paragraphs 60-61)
- during the first conference and prior to the client device connecting to the second conference without joining the second conference (Lee; as shown in figure 3,

user participating in conference, active and passive wherein user when user passively join into conference to able to view second conference items without joining as active user; paragraphs 60-63 and 66):

- transmitting, to the client device, a first graphical output for display on a panel interface associated with the second conference (Lee; as shown in figure 3, conference participants able to join video conferences simultaneously as passive and active, further, the audio and video data may be routed through the server to the client device (server also store conference application that include conference interface as disclosed in paragraph 57); paragraph 59 and 61-63).

Lee does not teach expressly,

- obtaining a conference item associated with a second conference that is in progress;
- receiving, at a server, a request from the client device to view the conference item
- transmitting, from the server, a second graphical output to the client device based on the request to display the conference item on the second portion of the panel interface prior to the client device connecting to the second conference

However, Johar teaches,

- obtaining a conference item associated with a second conference that is in progress (Johar; as shown in figure 5A, interface 506 (user able to view who join to the meeting prior to joining) display upon generating the interface 504 (interface 506 as second portion as conference item about list of participants); paragraph 43);

- receiving, at a server, a request from the client device to view the conference item (Johar; user interface button is operable to retrieve detailed information on each of the participants in the virtual meeting conversation (the user profiles to which the graphical identifiers correspond), further, upon receiving a selection at the button (receiving request) the device generates interface as illustrated in figure 5C, further, as shown in figure 5A, interface 506 (user able to view who join to the meeting) display upon generating the interface 504; paragraph 43)
- transmitting, from the server, a second graphical output to the client device based on the request to display the conference item on the second portion of the panel interface prior to the client device connecting to the second conference (Johar; as shown in figure 5A, interface 506 (user able to view who join to the meeting prior to joining) display upon generating the interface 504 (interface 506 as second portion as conference item about list of participants); paragraph 43, further, as shown in figure 5C, virtual video meeting started and user wants to see list of participants without joining to the meeting; paragraph 50).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Johar technique of preview list of participants and conference item before joining to the virtual meeting to modify user participate multiple video conference as active and passive participant of Lee. It would have been motivated to provides an improved conferencing system to displaying conference items in plurality of regions to view improved interface for better presentation. enable user to advantageously. enables each user to see who is connected to the meeting, and

improve the user experience by allowing users to more readily determine an appropriate time to join the conference.

Lee and Johar do not teach expressly,

- transmitting, the panel interface having a first portion and is expandable to display a second portion, the first portion including a thumbnail indicator of the conference item;
- wherein the second portion is an expanded portion of the panel interface to display the conference item.

However, Daredia teaches,

- transmitting, the panel interface having a first portion and is expandable to display a second portion, the first portion including a thumbnail indicator of the conference item (Daredia; as shown in figure 4B, there are plural regions in the meeting interface such as document region 412a, a video region 412 b, a transcript region 412 c, and a user list 412 d where based on the text transcription can also follow the highlight box 414 within the document region 412 a and the video within the video region 412 b (as agenda item selected from the region 412a region (thumbnail of the agenda in first portion, second region with text transcript and video display); paragraph 82 and 86);
- wherein the second portion is an expanded portion of the panel interface to display the conference item (Daredia; second portion as transcript and video corresponding to the agenda selection in first portion; paragraph 86).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Daredia technique of conference items displaying in different regions as text transcript and video region corresponds with agenda to modify user participate multiple video conference as active and passive participant, and preview list of participants and conference item before joining to the virtual meeting of Lee and Johar. It would have been motivated to provides an improved conferencing system to displaying conference items in plurality of regions to view improved interface for better presentation.

Claims 9 is system claim that corresponding to method claim 1. Therefore, claim is rejected for the same reason as claim 1 above.

Regarding claim 12, Lee, Johar and Daredia teaches all of the claim 9. Lee, Johar and Daredia do not teaches,

- wherein the thumbnail indicator is a visual indicator that is a graphical representation of the conference item (as shown in figure 4B, there are plural regions in the meeting interface such as document region 412a, a video region 412 b, a transcript region 412 c, and a user list 412 d where based on the text transcription can also follow the highlight box 414 within the document region 412 a and the video within the video region 412 b (as agenda item selected from the region 412a region (thumbnail of the agenda in first portion, second region with text transcript and video display); paragraph 82 and 86).

However, Daredia teaches,

- wherein the thumbnail indicator is a visual indicator that is a graphical representation of the conference item (Daredia; as shown in figure 4B, there are plural regions in the meeting interface such as document region 412a, a video region 412 b, a transcript region 412 c, and a user list 412 d where based on the text transcription can also follow the highlight box 414 within the document region 412 a and the video within the video region 412 b (as agenda item selected from the region 412a region (thumbnail of the agenda in first portion, second region with text transcript and video display); paragraph 82 and 86).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Ackerman technique of conference items displaying in different regions as text transcript and video region corresponds with agenda to modify user participate multiple video conference as active and passive participant, and preview list of participants and conference item before joining to the virtual meeting, and conference items displaying in different regions as text transcript and video region corresponds with agenda of Lee, Johar and Daredia. It would have been motivated to provides an improved conferencing system to displaying conference items in plurality of regions to view improved interface for better presentation.

Regarding claim 13, Lee, Johar and Daredia teaches all of the claim 9. Lee, Johar and Daredia do not teaches,

- wherein the thumbnail indicator is a visual indicator that is a graphical representation of the conference item, and wherein the visual indicator is at least one of an icon, or a text representation of the conference item.

However, Daredia teaches,

- wherein the thumbnail indicator is a visual indicator that is a graphical representation of the conference item, and wherein the visual indicator is at least one of an icon, or a text representation of the conference item (Daredia; as shown in figure 4B, there are plural regions in the meeting interface such as document region 412a, a video region 412 b, a transcript region 412 c, and a user list 412 d where based on the text transcription can also follow the highlight box 414 within the document region 412 a and the video within the video region 412 b (as agenda item selected from the region 412a region (thumbnail of the agenda in first portion, second region with text transcript and video display); paragraph 82 and 86).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Daredia technique of conference items displaying in different regions as text transcript and video region corresponds with agenda to modify user participate multiple video conference as active and passive participant, and preview list of participants and conference item before joining to the virtual meeting, and conference items displaying in different regions as text transcript and video region corresponds with agenda of Lee, Johar and Daredia. It would have been motivated to provides an improved conferencing system to displaying conference items in plurality of regions to view improved interface for better presentation.

Claim 16 is a non-transitory computer-readable storage device claim that corresponding to method claim 1. Therefore, claim is rejected for the same reason as claim 1 above. In

addition, the combination of Lee, Johar and Daredia teaches, A non-transitory computer-readable storage device (Johar; fig. 10; memory 86) including program instructions that, when executed by a processor (Johar; fig. 10; processor 84), cause the processor to perform operations, the operations comprising:

Claims 19-20: they are non-transitory computer-readable storage device claim that corresponding to method claims 12-13. Therefore, they are rejected for the same reason as claims 12-13 above.

9. Claims 2, 4, 7-8 and 15 are rejected under 35 U.S.C. 103 as being unpatentable over Lee et al. (2021/0258427) hereinafter Lee in view of Johar et al. (US Pub 2016/0269504) hereinafter Johar and further in view of Daredia et al. (US Pub 2020/0403817) hereinafter Daredia as applied to claim 1 above, and further in view of Ackerman et al. (US Pub 2010/0037151) hereinafter Ackerman.

Regarding claim 2, Lee, Johar and Daredia teaches all of the claim 1. Lee, Johar and Daredia do not teach expressly,

- wherein the conference item is an editable document

However, Ackerman teaches,

- wherein the conference item is an editable document (Ackerman; presenter/host can modify the document in real time (document editable); paragraph 86).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Ackerman's technique of conference items displaying in different regions as text transcript and video region corresponds with agenda to modify user participate multiple video conference as active and passive participant, and preview list of participants and conference item before joining to the virtual meeting, and conference items displaying in different regions as text transcript and video region corresponds with agenda of Lee, Johar and Daredia. It would have been motivated to provides an improved multi-media conferencing system to organized conference items in plurality of portions to view improved interface.

Regarding claim 4, Lee, Johar and Daredia teaches all of the claim 1. Lee, Johar and Daredia do not teach expressly,

- wherein the conference item is at least one of an agenda, a real-time transcript, a downloadable file, or a real-time presentation

However, Ackerman teaches,

- wherein the conference item is at least one of an agenda, a real-time transcript, a downloadable file, or a real-time presentation (Ackerman; participants views the conference during real time includes audio/video, PowerPoint, document manipulation; paragraph 131).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Ackerman's technique of conference items displaying in different regions as text transcript and video region corresponds with agenda to modify user participate multiple video conference as active and passive participant, and

preview list of participants and conference item before joining to the virtual meeting, and conference items displaying in different regions as text transcript and video region corresponds with agenda of Lee, Johar and Daredia. It would have been motivated to provides an improved multi-media conferencing system to organized conference items in plurality of portions to view improved interface.

Regarding claim 7, Lee, Johar and Daredia teaches all of the claim 1. Lee, Johar and Daredia do not teach expressly,

- wherein the display of the client device includes a panel interface associated with the conference, wherein the panel interface includes a first portion and a second portion

However, Ackerman teaches,

- wherein the display of the client device includes a panel interface associated with the conference, wherein the panel interface includes a first portion and a second portion (Ackerman; as shown in figure 4, conference display shown two portions content sectors 62a-b and 62c-n where content displays and another area networking area 56 where participant list pane and other pane where user perform text chat communication and attachment (conference display having two panel interface); paragraphs 139-140).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Ackerman's technique of conference items displaying in different regions as text transcript and video region corresponds with agenda to modify user participate multiple video conference as active and passive participant, and

preview list of participants and conference item before joining to the virtual meeting, and conference items displaying in different regions as text transcript and video region corresponds with agenda of Lee, Johar and Daredia. It would have been motivated to provides an improved multi-media conferencing system to organized conference items in plurality of portions to view improved interface.

Regarding claim 8, Lee, Johar and Daredia teaches all of the claim 1. Lee, Johar and Daredia do not teach expressly,

- wherein the display of the client device includes a panel interface associated with the conference, wherein the panel interface includes a first portion and a second portion, and wherein the first graphical output is displayed on the first portion of the panel interface and the second graphical output is displayed on the second portion of the panel interface

However, Ackerman teaches,

- wherein the display of the client device includes a panel interface associated with the conference, wherein the panel interface includes a first portion and a second portion (Ackerman; as shown in figure 4, conference display shown two portions content sectors 62a-b and 62c-n where content displays and another area networking area 56 where participant list pane and other pane where user perform text chat communication and attachment (conference display having two panel interface); paragraphs 139-140), and wherein the first graphical output is displayed on the first portion of the panel interface and the second graphical output is displayed on the second portion of the panel interface (Ackerman; as

shown in figure 4, conference display shown two portions content sectors 62a-b and 62c-n where content displays (first portion where content display) and another area networking area 56 where participant list pane and other pane where user perform text chat communication and attachment (as second portion where participants list, test chat and attachments pane display); paragraphs 139-140).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Ackerman's technique of conference items displaying in different regions as text transcript and video region corresponds with agenda to modify user participate multiple video conference as active and passive participant, and preview list of participants and conference item before joining to the virtual meeting, and conference items displaying in different regions as text transcript and video region corresponds with agenda of Lee, Johar and Daredia. It would have been motivated to provides an improved multi-media conferencing system to organized conference items in plurality of portions to view improved interface.

Claim 15 is system claim that corresponding to method claim 4. Therefore, claim is rejected for the same reason as claim 4 above.

10. Claims 3 and 14 are rejected under 35 U.S.C. 103 as being unpatentable over Lee et al. (US Pub 2021/0258427) hereinafter Lee in view of Johar et al. (US Pub 2016/0269504) hereinafter Johar and further in view of Daredia et al. (US Pub

2020/0403817) hereinafter Daredia as applied to claim 1 and 9 above, and further in view of Masterson et al. (US Pub 2015/0281149) hereinafter Masterson.

Regarding claim 3, Lee, Johar and Daredia teaches all of the claim 1. Lee, Johar and Daredia do not teach expressly,

- transmitting a notification to participant client devices, wherein the notification indicates that the editable document has been modified

However, Masterson teaches,

- transmitting a notification to participant client devices, wherein the notification indicates that the editable document has been modified (Masterson; edited content sent to the user via communication method such as electronic communication message (e.g., electronic mail, text message, instant message, chat message, videoconference message, and the like) and receiving user select attached content item (edited content) and view or read content item; paragraph 18)

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Masterson technique of sending edited content item using test message or email to modify user participate multiple video conference as active and passive participant, and preview list of participants and conference item before joining to the virtual meeting, and conference items displaying in different regions as text transcript and video region corresponds with agenda of Lee, Johar and Daredia. It would have been motivated to make such combination to efficiently and quickly transmitted content to other user to improve communication.

Claim 14 is system claim that corresponding to method claim 3. Therefore, claim is rejected for the same reason as claim 3 above.

11. Claims 5, 11 and 17 are rejected under 35 U.S.C. 103 as being unpatentable over Lee et al. (US Pub 2021/0258427) hereinafter Lee in view of Johar et al. (US Pub 2016/0269504) hereinafter Johar and further in view of Daredia et al. (US Pub 2020/0403817) hereinafter Daredia as applied to claim 1, 9, and 16 above, and further in view of Kwatra et al. (US Pat, 11,245,735) hereinafter Kwatra.

Regarding claim 5, Lee, Johar and Daredia teaches all of the claim 9. Lee, Johar and Daredia do not teach expressly,

- detecting an initiation of a screen share in the second conference;
- determining that a substantive portion of the second conference has started based on the screen share, the substantive portion of the second conference associated with an agenda item; and
- transmitting a notification to the client device that indicates that the substantive portion of the second conference has started

However, Kwatra teaches,

- detecting an initiation of a screen share in the second conference (Kwatra; during a collaboration screen-sharing, client device initiate a screen-sharing session (screen sharing operation in second screen sharing session); col 3 line 39-45);

- determining that a substantive portion of the second conference has started based on the screen share, the substantive portion of the second conference associated with an agenda item (Kwatra; agenda share by the presenter user to other participant (screen sharing operation in second screen sharing session); col 5 line 28-33); and
- transmitting a notification to the client device that indicates that the substantive portion of the second conference has started (Kwatra; presenter initiate the screen sharing session and presenter shares display 118A with multiple users which allows multiple users to view various content in their respective devices; col 3 line 39-51)

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Kwatra technique of screen-sharing content with multiple participant devices to modify user participate multiple video conference as active and passive participant, and preview list of participants and conference item before joining to the virtual meeting, and conference items displaying in different regions as text transcript and video region corresponds with agenda of Lee, Johar and Daredia. It would have been motivated to make such combination to enable user to quickly and efficiently communicate with multiple participant users via screen sharing during collaboration session.

Claim 11 is system claim that corresponding to method claim 5. Therefore, claim is rejected for the same reason as claim 5 above.

Claims 17 is non-transitory computer-readable storage device claim that corresponding to system claim 11. Therefore, claim is rejected for the same reason as claim 11 above.

12. Claims 6, 10 and 18 are rejected under 35 U.S.C. 103 as being unpatentable over Lee et al. (US Pub 2021/0258427) hereinafter Lee in view of Johar et al. (US Pub 2016/0269504) hereinafter Johar and further in view of Daredia et al. (US Pub 2020/0403817) hereinafter Daredia as applied to claim 1, 9 and 16 above, and further in view of Decrop et al. (US Pat, 11,488,634) hereinafter Decrop.

Regarding claim 6, Lee, Johar and Daredia teaches all of the claim 1. Lee, Johar and Daredia do not teach expressly,

- detecting a voice in an audio portion of the second conference;
- converting the voice to text;
- comparing the text to the conference item, wherein the conference item is an agenda;
- determining that a substantive portion of the second conference has started based on the comparison, the substantive portion of the second conference associated with an agenda item; and
- transmitting a notification to the client device that indicates that the substantive portion of the second conference has started

However, Decrop teaches,

- detecting a voice in an audio portion of the second conference (Decrop; speakers verbal speech output analyzed; col 7 line 42-47, further, in virtual meeting, a virtual meeting software, capture the audio of the speaker for speech-to-text conversion for later analysis (equating voice audio in second virtual meeting); col 5 line 19-22);
- converting the voice to text (Decrop; convert speech-to-text of speaker speech; col 7 line 42-50);
- comparing the text to the conference item, wherein the conference item is an agenda (Decrop; the output speech-to-text text compared with common topics identified based on semantic similarity between the topics of the speaker and common topics; col 7 46-49);
- determining that a substantive portion of the second conference has started based on the comparison, the substantive portion of the second conference in progress associated with an agenda item (Decrop; the output speech-to-text text compared with common topics identified based on semantic similarity between the topics of the speaker and common topics (speaker's topic equating as meeting agenda and equating voice audio in second virtual meeting); col 7 line 46-49); and
- transmitting a notification to the client device that indicates that the substantive portion of the second conference has started (Decrop; the speaker's verbal communication during the meeting may be analyzed to have topics identified this correlate that video conference started; col 7 line 45-61).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Kwatra technique of Decrop technique of convert speaker speech-to text and compare topics to modify preview list of participants before joining to the virtual meeting, and conference items displaying in different regions as text transcript and video region corresponds with agenda of Johar and Daredia. It would have been motivated to make such combination to enable user to analyze accurately what the speaker says during the presentation by converting speech-to-text.

Claims 10 is system claim that corresponding to method claim 6. Therefore, claim is rejected for the same reason as claim 6 above.

Claims 18 is non-transitory computer-readable storage device claim that corresponding to method claim 6. Therefore, claim is rejected for the same reason as claim 6 above.

Response to Arguments

13. In the remarks on pages 8, that Johar, either alone or in combination with Ackerman and Daredia, fail to disclose or suggest at least "during the first conference and prior to the client device connecting to the second conference without joining the second conference: transmitting, to the client device, a first graphical output for display on a panel interface associated with the second conference," as claimed. Applicant's argument have been considered, but are moot in view of new ground of rejection.

Conclusion

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

Weiss et al. (US 2022/0365793 A1) teaches session preview 248 depicted for some or all active sessions ([0034], fig. 2C).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PARMANAND D Patel whose telephone number is (571)270-7283. The examiner can normally be reached Monday - Friday, 8:30AM-5PM EST.

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, Jennifer Welch can be reached on (571) 272-7212. 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

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Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/PARMANAND D PATEL/
Examiner, Art Unit 2143

/JENNIFER N WELCH/
Supervisory Patent Examiner, Art Unit 2143

Notice of References Cited	Application/Control No. 17/472,033	Applicant(s)/Patent Under Reexamination Swerdlow, Nick	
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U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Name	CPC Classification	US Classification
*	A	US-20210258427-A1	2021-08-19	Lee; Jonathan Co	H04L12/1831	1/1
*	B	US-20220365793-A1	2022-11-17	Weiss; Noah	H04L65/402	1/1
	C					
	D					
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FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

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

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	Examiner	Art Unit
	PARMANAND D PATEL	2143

✓	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	11/18/2022	06/01/2023	11/03/2023	05/24/2024	09/27/2024				
	1	✓	✓	✓	✓	✓				
	2	✓	✓	✓	✓	✓				
	3	✓	✓	✓	✓	✓				
	4	✓	✓	✓	✓	✓				
	5	✓	✓	✓	✓	✓				
	6	✓	✓	✓	✓	✓				
	7	✓	✓	✓	✓	✓				
	8	✓	✓	✓	✓	✓				
	9	✓	✓	✓	✓	✓				
	10	✓	✓	✓	✓	✓				
	11	✓	✓	✓	✓	✓				
	12	✓	✓	✓	✓	✓				
	13	✓	✓	✓	✓	✓				
	14	✓	✓	✓	✓	✓				
	15	✓	✓	✓	✓	✓				
	16	✓	✓	✓	✓	✓				
	17	✓	✓	✓	✓	✓				
	18	✓	✓	✓	✓	✓				
	19	✓	✓	✓	✓	✓				
	20	✓	✓	✓	✓	✓				

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/472,033	Swerdlow, Nick
	Examiner	Art Unit
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CPC - Searched*		
Symbol	**Date**	**Examiner**
H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166	11/17/2022	PP
H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166	06/01/2023	PP
H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166	11/03/2023	PP
H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166	05/24/2024	PP
H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166	09/09/2024	PP

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

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

/PARMANAND D PATEL/ Examiner, Art Unit 2143	

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	Examiner	Art Unit
	PARMANAND D PATEL	2143

Search Notes		
Search Notes	**Date**	**Examiner**
PE2E search including limited text search combine with CPC symbols using East databases (USPGPUB; USPAT; FPRS; USOCR; EPO; JPO)	11/17/2022	PP
Use PE2E SEARCH and PALM to search inventors and assignee	11/17/2022	PP
Use google scholar to search prior arts	11/17/2022	PP
PE2E search including limited text search combine with CPC symbols using PE2E databases (USPGPUB; USPAT; FPRS; USOCR; EPO; JPO)	05/31/2023	PP
Use PE2E SEARCH and PALM to search inventors and assignee	05/31/2023	PP
Use google scholar to search prior arts	06/01/2023	PP
PE2E search including limited text search combine with CPC symbols using PE2E databases (USPGPUB; USPAT; FPRS; USOCR; EPO; JPO)	11/03/2023	PP
Use PE2E SEARCH and PALM to search inventors and assignee	11/03/2023	PP
Use google scholar to search prior arts	11/03/2023	PP
PE2E search including limited text search combine with CPC symbols using PE2E databases (USPGPUB; USPAT; FPRS; USOCR; EPO; JPO)	05/24/2024	PP
Use PE2E SEARCH and PALM to search inventors and assignee	05/24/2024	PP
Use google scholar to search prior arts	05/24/2024	PP
PE2E search including limited text search combine with CPC symbols using PE2E databases (USPGPUB; USPAT; FPRS; USOCR; EPO; JPO)	09/09/2024	PP
Use PE2E SEARCH and PALM to search inventors and assignee	09/09/2024	PP
Use google scholar to search prior arts	09/26/2024	PP

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**

/PARMANAND D PATEL/ Examiner, Art Unit 2143	

Zoom Communications, Inc. v. Ricoh Company, Ltd.
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The recommencement of a **meeting** as a member's accomplishment

MA Atkinson, EC Cuff, JRE Lee - Studies in the organization of …, 1978 - Elsevier

… ; in Part **II**, we will attempt to **show** how subsequent talk might … Should some members of the organization attempt to **view** … changed or **merge** into one **another without** preplan or **agenda**, …

☆ Save 99 Cite Cited by 172 Related articles

Making space for social time: Supporting conversational transitions before, during, and after video **meetings**

C Gonzalez Diaz, J Tang, A Sarkar… - … of the 1st Annual Meeting …, 2022 - dl.acm.org

… the **meeting**, observable by the **meeting** cohort but **without** the … **meeting** link that was **joined** just as any **other meeting** might … in the idealised **view** shown in Figure 1, a **preview** of people …

☆ Save 99 Cite Cited by 12 Related articles All 3 versions

Meeting Minutes and **Agenda**-Annual **Conference** 2011

H Raine - 2011 - alair.ala.org

… **without** this outstanding and dedicated team. We are always looking for volunteers to **join** us… institutions possess the necessary equipment to **preview** the content of now obsolete formats…

☆ Save 99 Cite Related articles All 2 versions »

Meetings, conventions, and expositions: An introduction to the industry

RJ Montgomery, SK Strick - 1984 - books.google.com

… travel to far-off places to **view** attractions (such as the pyramids … resources **without** changing or destroying the natural beauty. … **Other** sources for funding include **membership** dues, **other** …

☆ Save 99 Cite Cited by 176 Related articles All 2 versions »

The politics of Arctic international cooperation: Introducing a dataset on stakeholder participation in Arctic Council **meetings**, 1998–2015

S Knecht - Cooperation and Conflict, 2017 - journals.sagepub.com

… further discuss and appraise projects in **view** of national interests. … the Ministerial **meeting** at which an actor officially **joined** the … **meetings** than others, with Iceland having been **without** a …

☆ Save 99 Cite Cited by 62 Related articles All 3 versions

23RD ANNUAL **CONFERENCE** (2008) PPC UPDATE 15

CPC UPDATE, S SUTTON - ORGANIZATION, 2008 - tigerprints.clemson.edu

… to the **membership** for a **preview** in a Newsletter "Newsflash". … of speakers **requesting** reimbursement over the last **two** year and … She noted that **without** that information she has to …

☆ Save 99 Cite Related articles All 2 versions

Meeting highlights: international expert consensus on the primary therapy of early breast cancer 2005

A Goldhirsch, JH Glick, RD Gelber, AS Coates … - Annals of oncology, 2005 - Elsevier

… to three involved lymph nodes **without** additional high-risk features … **Two** recent updated postmastectomy adjuvant radiation … risk categories including a group **merging** higher risk node-…

☆ Save 99 Cite Cited by 1598 Related articles All 15 versions

Computer-mediated conversation: The organization of talk in chat-based virtual team **meetings**

KM Markman - 2006 - search.proquest.com

… **Without** you this would not have been possible (you truly are the trout in … I **show** how an analysis of … they still had a limited **view** of the virtual environment, they could not always resolve …

☆ Save 99 Cite Cited by 49 Related articles All 5 versions »

Board **meeting** frequency and firm performance

N Vafeas - Journal of financial economics, 1999 - Elsevier

… An opposing **view** is that board **meetings** are not necessarily … in boards with high insider **membership**. There thus should be … by officers and directors (**without** the squared term), both raw …

☆ Save 99 Cite Cited by 3275 Related articles All 6 versions

The CoExplorer Technology Probe: A Generative AI-Powered Adaptive Interface to Support Intentionality in Planning and Running Video **Meetings**

G Woo, P Panda, L Tankelevitch, S Rintel - arXiv preprint arXiv …, 2024 - arxiv.org

… or classroom use is granted **without** fee provided that copies … capabilities [40] and automated **view** direction or focus logic [… that should be prepared before **joining** the **meeting**. Similarly, …

☆ Save 99 Cite Related articles All 3 versions »

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L99	46	((("SWERDLOW") near3 ("Nick"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/08/27 02:21 PM
L100	1799	((("ZOOM") near3 ("VIDEO") near3 ("COMMUNICATIONS") near3 ("INC"))).AS,AANM.	(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	2024/08/27 02:21 PM
L101	211447	(H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166).cpc.	(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	2024/08/27 02:21 PM
L102	0	L99 AND ((conference NEAR preview$3) AND (graphical NEAR output) AND (join$3 near2 conference) AND (panel NEAR interface) AND (progress) AND (server) AND (persistent)).clm.	(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	2024/08/27 02:22 PM

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L103	0	L100 AND ((conference NEAR preview$3) AND (graphical NEAR output) AND (join$3 near2 conference) AND (panel NEAR interface) AND (progress) AND (server) AND (persistent)).clm.	(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	2024/08/27 02:22 PM
L104	33	preview SAME (item agenda content points document presentation) SAME (participants member invitee) SAME (prior before) WITH (conference meeting) WITH (start begin join joining) AND @ad<"20210910"	(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	2024/08/27 03:56 PM
L105	47	preview SAME (item agenda content points document presentation) SAME (participants member invitee) SAME (prior before) SAME (conference meeting) WITH (start begin join joining) AND @ad<"20210910"	(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	2024/08/27 03:56 PM
L106	53	preview SAME ((item agenda content points document presentation) SAME (participants member invitee attendee)) SAME (prior before) SAME (conference meeting) WITH (start begin join	(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,	OR	ON	ON	2024/08/27 03:56 PM

		joining progress) AND @ad<"20210910"	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)				
L107	20	L106 NOT L104	(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	2024/08/27 03:56 PM
L108	426671	(interface panel window frame) WITH (expanding expandable extend increase increasing stretch) SAME (second another) near5 (portion region area section) AND @ad<"20210910"	(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	2024/08/27 03:57 PM
L109	108904	(interface panel window frame) WITH (expanding expandable extend increase increasing stretch) near5 (second another) near5 (portion region area section) AND @ad<"20210910"	(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	2024/08/27 03:57 PM
L110	23009	(interface window)	(US-PGPUB; USPAT;	OR	ON	ON	2024/08/27

		WITH (expanding expandable extend increase increasing stretch) near5 (second another) near5 (portion region area section) AND @ad<"20210910"	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)				03:57 PM
L111	1411	(interface window) WITH (expanding expandable extend increase increasing stretch) near5 (second another) near5 (portion region area section) SAME ((user near2 interface) GUI) AND @ad<"20210910"	(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	2024/08/27 03:57 PM
L112	16	(interface window) WITH (expanding expandable extend increase increasing stretch) near5 (second another) near5 (portion region area section) SAME (conference meeting) WITH (item agenda content points document presentation) SAME ((user near2 interface) GUI) AND @ad<"20210910"	(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	2024/08/27 03:57 PM
L113	739	(detect$4 identif$4 determin$4) WITH (audio voice speech) WITH (text) SAME (on$line video web) near5 (conference meeting seminar) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2024/08/27 03:58 PM
L114	84	(detect$4 identif$4	(US-PGPUB; USPAT)	OR	ON	ON	2024/08/27

		determin$4) WITH (audio voice speech) WITH (text) SAME (topic agenda subject) SAME (on$line video web) near5 (conference meeting seminar) AND @ad<"20210910"					03:59 PM
L115	50	(Artificial Intelligence) Similar to: 17/472,033 with 0 CPC Selections and 0 Text Selections Text: (US-20230083350-A1 OR US-11824671-B2 OR US-20230078792-A1 OR US-20240039747-A1 OR US-20240039746-A1 OR WO-2023039038-A1 OR US-11863333-B2 OR US-20230096134-A1 OR US-20230342101-A1 OR US-20240248666-A1 OR US-11991016-B2 OR US-20240097923-A1 OR US-20240146877-A1 OR US-20230032769-A1 OR WO-2024058960-A1 OR US-11843898-B2 OR US-11381412-B1 OR US-20230412763-A1 OR US-20230081717-A1 OR US-20240259224-A1 OR US-11682200-B1 OR US-20240137236-A1 OR US-20240235868-A9 OR US-20230246865-A1 OR US-11652655-B1 OR US-20240096375-A1 OR US-20230137043-A1 OR US-11916687-B2 OR US-11916688-B2 OR US-20240007318-A1 OR US-20240259439-A1 OR US-20230334431-A1 OR US-20240211891-A1 OR US-11966883-B2 OR US-20230334430-A1	(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))	OR	ON	ON	2024/08/27 03:59 PM

		OR US-20240154830-A1 OR US-20240135917-A1 OR US-20240233705-A9 OR US-20240007319-A1 OR US-11736660-B2 OR US-20240129431-A1 OR US-12028179-B2 OR US-20240251057-A1 OR US-20230336370-A1 OR US-11882383-B2 OR US-20230132639-A1 OR US-20240243940-A1 OR US-11792032-B2 OR US-20230239432-A1 OR US-11943267-B1).did.					
L116	50	(Artificial Intelligence) Similar to: 17/472,033 with 3 CPC Selections and 1 Text Selection --- Text: (US-20230083350-A1 OR EP-3624396-A1 OR US-9652113-B1 OR KR-102332477-B1 OR US-20220407900-A1 OR KR-20200015616-A OR US-20230059158-A1 OR US-20190132265-A1 OR US-20230351123-A1 OR WO-2023211669-A1 OR EP-3497883-B1 OR JP-2020527740-A OR WO-2019089551-A1 OR JP-6776462-B2 OR CN-110741601-B OR CN-107370610-A OR US-10204158-B2 OR US-20220028410-A1 OR CN-112463104-B OR US-11626126-B2 OR US-20130144603-A1 OR US-20240087595-A1 OR US-20190051301-A1 OR KR-20210148380-A OR US-20230274759-A1 OR US-11842749-B2 OR KR-102461920-B1 OR JP-2021012384-A OR KR-20220149629-A OR	(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))	OR	ON	ON	2024/08/27 04:03 PM

		US-20170277784-A1 OR JP-7032504-B2 OR KR-102580322-B1 OR CN-112040166-A OR US-9053750-B2 OR US-9245254-B2 OR US-20200118569-A1 OR EP-3979560-A1 OR US-20120323575-A1 OR CN-107370610-B OR CN-110741601-A OR US-20210368134-A1 OR JP-2018173752-A OR US-11416831-B2 OR EP-3979560-B1 OR US-20180286389-A1 OR US-11450334-B2 OR US-20230352026-A1 OR US-20180288110-A1 OR JP-7443407-B2 OR US-20230319121-A1).did.					
L117	0	L116 AND ((preview) SAME (second another) WITH (conference meeting) SAME (item information agenda) AND @ad<"20210910")	(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))	OR	ON	ON	2024/08/27 04:05 PM
L118	0	L116 AND ((preview) SAME (second another) WITH (conference meeting) SAME (item agenda content points document presentation) AND @ad<"20210910")	(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))	OR	ON	ON	2024/08/27 04:09 PM
L119	0	L116 AND ((preview) SAME (second another) SAME (conference meeting) SAME (item agenda content points document presentation) AND @ad<"20210910")	(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,	OR	ON	ON	2024/08/27 04:09 PM

			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))				
L120	50	(Artificial Intelligence) Similar to: 17/472,033 with 0 CPC Selections and 0 Text Selections Text: (US-20230083350-A1 OR US-11824671-B2 OR US-20230078792-A1 OR US-20240039747-A1 OR US-20240039746-A1 OR WO-2023039038-A1 OR US-20230096134-A1 OR US-11863333-B2 OR US-20230342101-A1 OR WO-2023249832-A1 OR US-20240248666-A1 OR US-11991016-B2 OR US-20240097923-A1 OR US-20240146877-A1 OR US-11843898-B2 OR WO-2024058960-A1 OR US-20230032769-A1 OR US-20230412656-A1 OR US-11381412-B1 OR US-20230081717-A1 OR US-20230412763-A1 OR US-11652958-B1 OR US-20240259224-A1 OR US-20240235868-A9 OR US-20240137236-A1 OR US-11682200-B1 OR US-20230246865-A1 OR US-11652655-B1 OR US-20240096375-A1 OR US-11916688-B2 OR US-20240007318-A1 OR US-20230137043-A1 OR US-11916687-B2 OR US-20240259439-A1 OR US-20230334431-A1 OR US-20240211891-	(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))	OR	ON	ON	2024/09/09 08:29 AM

		A1 OR US-20230334430-A1 OR US-11966883-B2 OR US-20240154830-A1 OR US-20240007319-A1 OR US-20240233705-A9 OR US-20240135917-A1 OR US-20240146560-A1 OR US-11736660-B2 OR US-20240129431-A1 OR US-20240251057-A1 OR US-12028179-B2 OR US-11882383-B2 OR US-20230336370-A1 OR US-20230132639-A1).did.					
L121	50	(Artificial Intelligence) Similar to: 17/472,033 with 0 CPC Selections and 0 Text Selections Text: (US-20230083350-A1 OR US-11824671-B2 OR US-20230078792-A1 OR US-20240039747-A1 OR US-20240039746-A1 OR WO-2023039038-A1 OR US-20230096134-A1 OR US-11863333-B2 OR US-20230342101-A1 OR WO-2023249832-A1 OR US-20240248666-A1 OR US-11991016-B2 OR US-20240097923-A1 OR US-20240146877-A1 OR US-11843898-B2 OR US-20230032769-A1 OR WO-2024058960-A1 OR US-20230412656-A1 OR US-11381412-B1 OR US-20230081717-A1 OR US-20230412763-A1 OR US-11652958-B1 OR US-20240259224-A1 OR US-20240235868-A9 OR US-20240137236-A1 OR US-11682200-B1 OR US-20230246865-	(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))	OR	ON	ON	2024/09/09 08:34 AM

		A1 OR US-20240096375-A1 OR US-11916688-B2 OR US-11652655-B1 OR US-20240007318-A1 OR US-20230137043-A1 OR US-11916687-B2 OR US-20240259439-A1 OR US-20230334431-A1 OR US-20240211891-A1 OR US-20230334430-A1 OR US-11966883-B2 OR US-20240154830-A1 OR US-20240007319-A1 OR US-20240233705-A9 OR US-20240135917-A1 OR US-20240146560-A1 OR US-11736660-B2 OR US-20240129431-A1 OR US-20240251057-A1 OR US-12028179-B2 OR US-11882383-B2 OR US-20230336370-A1 OR US-20230132639-A1).did.					
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		A1 OR US-20240235868-A9 OR US-20240137236-A1 OR US-11682200-B1 OR US-20230246865-A1 OR US-20240096375-A1 OR US-11916688-B2 OR US-11652655-B1 OR US-20240007318-A1 OR US-20230137043-A1 OR US-11916687-B2 OR US-20240259439-A1 OR US-20230334431-A1 OR US-20240211891-A1 OR US-20230334430-A1 OR US-11966883-B2 OR US-20240154830-A1 OR US-20240007319-A1 OR US-20240233705-A9 OR US-20240135917-A1 OR US-20240146560-A1 OR US-11736660-B2 OR US-20240129431-A1 OR US-20240251057-A1 OR US-12028179-B2 OR US-11882383-B2 OR US-20230336370-A1 OR US-20230132639-A1).did.					
L123	3	L122 AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/09 08:36 AM
L124	3	L122 AND ((obtain acquire retrieve) WITH (conference meeting) WITH (agenda document file) SAME (prior before started) (conference meeting) AND @ad<"20210910")	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/09 08:40 AM
L125	14	(obtain acquire retrieve) WITH (conference meeting) WITH (agenda document file) SAME ((prior before started) WITH (join$4) WITH (conference meeting)) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/09 08:57 AM
L126	14	(obtain acquire retrieve preview) WITH (conference meeting) WITH (agenda	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/09 08:59 AM

		document file) SAME ((prior before started) WITH (join$4) WITH (conference meeting)) AND @ad<"20210910"					
L127	53	(obtain acquire retrieve preview) WITH (conference meeting) WITH (agenda document file) AND ((prior before started) WITH (join$4) WITH (conference meeting)) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/09 08:59 AM
L128	39	L127 NOT L126	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/09 08:59 AM
L129	105	L127 NOT L126	(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	2024/09/09 09:07 AM
L130	0	L129 NOT L128	(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	2024/09/09 09:07 AM
L131	6	(obtain acquire retrieve preview request) WITH (second another subsequent) WITH (conference meeting) WITH (agenda document file) SAME ((prior before started)	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/09 09:15 AM

		WITH (join$4) WITH (conference meeting)) AND @ad<"20210910"					
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L133	92	L132 AND L101	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/09 09:16 AM
L134	34	(obtain acquire retrieve preview) WITH (conference meeting) WITH (agenda document file) SAME ((prior before started without) WITH (join$4) WITH (conference meeting)) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/09 09:24 AM
L135	41	(obtain acquire retrieve preview) WITH (conference meeting) WITH (agenda document file topics) SAME ((prior before started without) WITH (join$4) WITH (conference meeting)) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/09 09:26 AM
L136	7	L135 NOT L134	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/09 09:26 AM
L137	71081	(obtain acquire retrieve preview request) WITH (second another subsequent simultaneous$2 concurrent$2 ongoing) WITH (session conferenc$5 collaborat$5 webinar web$1cast presentation white$1board ((screen desktop application)) near1 (shar$3 collaborat$5)) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/09 10:55 AM
L138	469871	(second another subsequent simultaneous$2 concurrent$2 ongoing) WITH (session	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/09 10:56 AM

		conferenc$5 collaborat$5 webinar web$1cast presentation white$1board ((screen desktop application)) near1 (shar$3 collaborat$5)) AND @ad<"20210910"					
L139	19021	(peek$3 preview$3) near2 (agenda file content media) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/09 10:56 AM
L140	4008	(obtain acquire retrieve preview request) WITH (simultaneous$2 concurrent$2 ongoing parallel synchronous$3 coincid$5 contemporaneous$2) near2 (session conferenc$5 collaborat$5 webinar web$1cast presentation white$1board ((screen desktop application) near1 (shar$3 collaborat$5))) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/09 10:58 AM
L141	72	L140 AND L139	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/09 10:58 AM
L142	53335	(simultaneous$2 concurrent$2 ongoing parallel synchronous$3 coincid$5 contemporaneous$2) near2 (session conferenc$5 collaborat$5 webinar web$1cast presentation white$1board ((screen desktop application) near1 (shar$3 collaborat$5))) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/09 11:03 AM
L143	950	L142 AND L139	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/09 11:04 AM
L144	192	L143 AND L101	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/09 11:04 AM
L145	181	L144 NOT L141	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/09 11:04 AM
L146	88	(@pd OR @ptad OR @prad OR @ad OR @rlad)<"20210910" AND (simultaneous$2 concurrent$2 ongoing	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/09 03:59 PM

		parallel synchronous$3 coincid$5 contemporaneous$2) near2 (session conferenc$5 collaborat$5 webinar web$1cast presentation white$1board ((screen desktop application) near1 (shar$3 collaborat$5))) SAME (peek$3 preview$3 ((second$3 other multiple) near2(session conferenc$5 collaborat$5 webinar web$1cast presentation white$1board ((screen desktop application) near1 (shar$3 collaborat$5))))) near2 (agenda document)					
L147	6	((US-20230030976-A1 OR US-20210258427-A1 OR US-20180337968-A1 OR US-20060164508-A1).did. AND PGPB.dbnm.) OR ((US-9716861-B1 OR US-11481236-B1).did. AND USPT.dbnm.)	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/09 04:01 PM
L148	34	("6731308" | "7124164" | "9232065" | "9940394" | "10560662" | "10848445" | "20080276184" | "20130014023" | "20130024782" | "20140108562" | "20140218461" | "20140375747" | "20150149929" | "20150317123" | "20150319113" | "20160021179" | "20160028784" | "20160099987" | "20160323398" | "20170142170" | "20180205797" | "20180212903" | "20180287982" | "20180295079" | "20180337968" | "20180367484" | "20190026298" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/09/09 04:04 PM

		"20190058680" | "20190098087" | "20190302233" | "20190342519" | "20190373415" | "20200374146" | "20200382618").pn. AND (PGPB | USPT | USOC).dbnm.					
L149	9	(@pd OR @ptad OR @prad OR @ad OR @rlad)<"20210910" AND (simultaneous$2 concurrent$2 ongoing parallel synchronous$3 coincid$5 contemporaneous$2) near2 (session conferenc$5 collaborat$5 webinar web$1cast presentation white$1board ((screen desktop application) near1 (shar$3 collaborat$5))) SAME (peek$3 preview$3 ((second$3 other multiple) SAME (passive) WITH (session conferenc$5 collaborat$5 webinar web$1cast presentation white$1board ((screen desktop application) near1 (shar$3 collaborat$5))))) near2 (agenda document)	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/09 04:13 PM
L150	2	("20210258427" "20220365793").pn.	(US-PGPUB; USPAT)	OR	ON	ON	2024/09/26 09:16 AM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-22)
Approved for use through 05/31/2024. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17472033
Filing Date	2021-09-10
First Named Inventor	Nick Swerdlow
Art Unit	2143
Examiner Name	P. D. Patel
Attorney Docket Number	ZOOM-164-C

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	11863333		2024-01-02	Swerdlow, Nick	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

ALL REFERENCES CONSIDERED EXCEPT WHERE [illegible]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	2021-09-10
	First Named Inventor	Nick Swerdlow
	Art Unit	2143
	Examiner Name	P. D. Patel
	Attorney Docket Number	ZOOM-164-C

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Examiner Signature	/PARMANAND D PATEL/	Date Considered	09/27/2024

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

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

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 120 of 547

ALL REFERENCES CONSIDERED EXCEPT WHERE [illegible]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	17472033
Filing Date	2021-09-10
First Named Inventor	Nick Swerdlow
Art Unit	2143
Examiner Name	P. D. Patel
Attorney Docket Number	ZOOM-164-C

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Neil C. Maskeri/	Date (YYYY-MM-DD)	2024-08-21
Name/Print	Neil C. Maskeri	Registration Number	61,591

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

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 121 of 547

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

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

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 122 of 547

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

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First Named Inventor	Nick Swerdlow
Art Unit	2143
Examiner Name	P. D. Patel
Attorney Docket Number	ZOOM-164-C

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	1	11863333		2024-01-02	Swerdlow, Nick	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	2021-09-10
	First Named Inventor	Nick Swerdlow
	Art Unit	2143
	Examiner Name	P. D. Patel
	Attorney Docket Number	ZOOM-164-C

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Examiner Signature		Date Considered	

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

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17472033
	Filing Date	2021-09-10
	First Named Inventor	Nick Swerdlow
	Art Unit	2143
	Examiner Name	P. D. Patel
	Attorney Docket Number	ZOOM-164-C

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Neil C. Maskeri/	Date (YYYY-MM-DD)	2024-08-21
Name/Print	Neil C. Maskeri	Registration Number	61,591

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

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/472,033	**08/21/2024 09:03:56 PM Z ET**	**ZOOM-164-C**

Title of Invention

Previewing Conference Items Prior To Joining A Conference

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1532	FILED BY	Jessica Tumblin
PATENT CENTER #	66872576	FILING DATE	09/10/2021
CUSTOMER #	177453	FIRST NAMED INVENTOR	Nick Swerdlow
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Neil Maskeri

Documents

TOTAL DOCUMENTS: 5

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
ZOOM164C_Information Disclosure Statement Fillable PDF _20240529.pdf		4	Information Disclosure Statement (IDS) Form (SB08)	1234 KB
ZOOM164C_Amd_20240531_20240821.pdf		10	-	62 KB
ZOOM164C_Amd_20240531_20240821-AMSB.pdf	(1-1)	1	Amendment Submitted/Entered with Filing of Continued Prosecution Application (CPA)/Request for Continued Examination(RCE)	18 KB
ZOOM164C_Amd_20240531_20240821-CLM.pdf	(2-7)	6	Claims	50 KB
ZOOM164C_Amd_20240531_20240821-REM.pdf	(8-10)	3	Applicant Arguments/Remarks Made in an Amendment	21 KB

ZOOM164C_Request for Continued Examination.pdf	3	Request for Continued Examination (RCE)	1628 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
ZOOM164C_Information Disclosure Statement Fillable PDF _20240529.pdf	C57C51AD004EEAB3BAEAB2A3D289C551FF85A75604A8567E 3B5847701D556074E72226442F17EFDF1CA653ED8BBD2E77A 47E3CFB96D3C79106AF74912A25B165
ZOOM164C_Amd_20240531_20240821.pdf	7B62018EED09B2B1AF45EC1F625C2167C2422D5A89B930F89 07C642F8BCC6CE9FDCB33A3AF9584AB570E8B41A6B76FFDE 90F92FE68B2D4E5374789E1A08EFCB2
ZOOM164C_Amd_20240531_20240821-AMSB.pdf	59CA699390394D72E779EA494902F95CB9206D89B5988376E1 28D6C26A9423B9F9CF212180CE5D040FA6B40CBF66D288005 A25CDA3B754C5D8FD39A4A69FFCE4
ZOOM164C_Amd_20240531_20240821-CLM.pdf	8168D4667B21138A5062BBA061153907CA18A8E17992ACE7D 7A19B8B6129F31C32D4FC2086ACFBFA9C88A0DB26B553E72 FA7CBF1244C98B595934C82A9A994D3
ZOOM164C_Amd_20240531_20240821-REM.pdf	F031DA5258998AD9FFACB70CE59E97F7BAF758AF630EE154 C45536D44CA653914DA4B07429A56F842773CFA66408D4E4B C1DE3FD582A359D1C52EE9020399AB8
ZOOM164C_Request for Continued Examination.pdf	0A5D1CB2491405682A7335B106E710B03539E15F86F11AB54B EF53B782BD7804737D96B39B642A34E8370C84070E86F03AC 206C11CE51F457F1D41C6144DD98C

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

New Applications Under 35 U.S.C. 111

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

PTO/SB/30EFS (01-22)
Approved for use through 05/31/2024. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	17472033	Filing Date	2021-09-10	Docket Number (if applicable)	ZOOM-164-C	Art Unit	2143
First Named Inventor	Nick Swerdlow			Examiner Name	P. D. Patel		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

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

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

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☒ Enclosed

- ☒ Amendment/Reply
- ☒ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____
(Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

☒ **The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 25-0115

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

☐ Applicant Signature

PTO/SB/30EFS (01-22)
Approved for use through 05/31/2024. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	/Neil C. Maskeri/	Date (YYYY-MM-DD)	2024-08-21
Name	Neil C. Maskeri	Registration Number	61591

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

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

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 131 of 547

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/472,033	**08/21/2024 09:03:56 PM Z ET**	**ZOOM-164-C**

Title of Invention

Previewing Conference Items Prior To Joining A Conference

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1532	FILED BY	Jessica Tumblin
PATENT CENTER #	66872576	AUTHORIZED BY	Neil Maskeri
CUSTOMER #	177453	FILING DATE	09/10/2021
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Nick Swerdlow

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 250115	**E20248KL04315515**	**Jessica Tumblin**

PRE-AUTHORIZED ACCOUNT	PRE-AUTHORIZED CATEGORY
250115	**37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees); 37 CFR 1.19 (Document supply fees); 37 CFR 1.20 (Post Issuance fees); 37 CFR 1.21 (Miscellaneous fees and charges)**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
1820	REQUEST FOR CONTINUED EXAMINATION (RCE)- 2ND AND SUBSEQUENT REQUEST (SEE 37 CFR 1.114)	2000.00	1	2000.00
			TOTAL AMOUNT:	**$2,000.00**

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Zoom Video Communications, Inc.
First Named Inventor:	Nick Swerdlow
Serial Number:	17/472,033
Filing Date:	September 10, 2021
Examiner/Art Unit:	Parmanand D. Patel / 2143 Conf. No.: 1532
Title:	Previewing Conference Items Prior to Joining a Conference

AMENDMENT AFTER FINAL

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

Commissioner:

In response to the final Office Action dated May 31, 2024 and the Advisory Action dated August 14, 2024, please enter the remarks and amendments, if any, in the above-identified patent application as indicated below.

If any extensions of time are needed for timely acceptance of this reply and associated papers, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment from Deposit Account No. 25-0115. If any other fees must be paid in connection with this reply, Applicant authorizes payment from Deposit Account No. 25-0115.

☐ Amendments to the Abstract.

☐ Amendments to the Specification.

☒ Amendments to the Claims.

☐ Amendments to the Drawings.

Listing of the Claims:

1. (Currently Amended) A method ~~for previewing a conference in progress~~, comprising:

facilitating a first conference that includes a client device;

obtaining a conference item associated with ~~the~~ a second conference that is in progress;

during the first conference and prior to ~~a~~ the client device connecting to the second conference without joining the second conference:

transmitting, to the client device, a first graphical output for display on a panel interface associated with the second conference, the panel interface having a first portion and is expandable to display a second portion, the first portion including a thumbnail indicator of the conference item;

receiving, at a server, a request from the client device to view the conference item; and

transmitting, from the server, a second graphical output to the client device based on the request to display the conference item on the second portion of the panel interface prior to the client device connecting to the second conference, wherein the second portion is an expanded portion of the panel interface to display the conference item.

2. (Original) The method of claim 1, wherein the conference item is an editable document.

3. (Previously Presented) The method of claim 1, wherein the conference item is an editable document, the method comprising:

transmitting a notification to participant client devices, wherein the notification indicates that the editable document has been modified.

4. (Original) The method of claim 1, wherein the conference item is at least one of an agenda, a real-time transcript, a downloadable file, or a real-time presentation.

5. (Currently Amended) The method of claim 1, comprising:

detecting an initiation of a screen share in the second conference;

determining that a substantive portion of the second conference has started based on the screen share, the substantive portion of the second conference associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the second conference has started.

6. (Currently Amended) The method of claim 1, comprising:

detecting a voice in an audio portion of the second conference;

converting the voice to text;

comparing the text to the conference item, wherein the conference item is an agenda;

determining that a substantive portion of the second conference has started based on the comparison, the substantive portion of the second conference associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the second conference has started.

7. (Currently Amended) The method of claim 1, wherein the display of the client device includes a panel interface associated with the second conference, wherein the panel interface includes a first portion and a second portion.

8. (Currently Amended) The method of claim 1, wherein the display of the client device includes a panel interface associated with the second conference, wherein the panel interface includes a first portion and a second portion, and wherein the first graphical output is displayed on the first portion of the panel interface and the second graphical output is displayed on the second portion of the panel interface.

9. (Currently Amended) A system ~~for previewing a conference in progress~~, comprising:

a server configured to:

facilitate a first conference that includes a client device;

obtain a conference item associated with ~~the~~ a second conference that is in progress; and

transmit, during the first conference, a first graphical output based on the conference item prior to ~~a~~ the client device connecting to the second conference;

a client device configured to display the first graphical output on a panel interface associated with the second conference prior to the client device connecting to the second conference without joining the second conference, the panel interface having a first portion and expandable to display a second portion, the first portion including a thumbnail indicator of the conference item;

during the conference and prior to the client device joining the second conference, the server configured to:

receive a request from the client device to view the conference item; and

transmit a second graphical output to the client device based on the request; and

prior to the client device joining the second conference, the client device configured to:

display the conference item on the second portion of the panel interface, wherein the second portion is an expanded portion of the panel interface.

10. (Currently Amended) The system of claim 9, wherein the server is configured to:

detect a voice in an audio portion of the second conference;

convert the voice to text;

compare the text to the conference item, wherein the conference item is an agenda;

determine that a substantive portion of the second conference has started based on the comparison, the substantive portion of the second conference associated with an agenda item; and

transmit a notification to the client device that indicates that the substantive portion of the second conference has started.

11. (Currently Amended) The system of claim 9, wherein the server is configured to:

detect an initiation of a screen share in the second conference;

determine that a substantive portion of the second conference has started based on the screen share, the substantive portion of the second conference associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the second conference has started.

12. (Previously Presented) The system of claim 9, wherein the thumbnail indicator is a visual indicator that is a graphical representation of the conference item.

13. (Previously Presented) The system of claim 9, wherein the thumbnail indicator is a visual indicator that is a graphical representation of the conference item, and wherein the visual indicator is at least one of an icon or a text representation of the conference item.

14. (Original) The system of claim 9, wherein the conference item is an editable document, the server configured to:

transmit a notification to participant client devices, wherein the notification indicates that the editable document has been modified.

15. (Original) The system of claim 9, wherein the conference item is at least one of an agenda, a real-time transcript, a downloadable file, or a real-time presentation.

16. (Currently Amended) A non-transitory computer-readable storage device ~~for previewing a conference in progress, the non-transitory computer-readable storage device~~ including program instructions that, when executed by a processor, cause the processor to perform operations, the operations comprising:

facilitating a first conference that includes a client device;

obtaining a conference item associated with ~~the~~ a second conference that is in progress;

during the first conference and prior to ~~a~~ the client device connecting to the second conference ~~in progress~~ without joining the second conference ~~in progress~~:

transmitting a first graphical output for display on a panel interface associated with the second conference, the panel interface having a first portion and expandable to display a second portion, the first portion including a thumbnail indicator of the conference item;

receiving, at a server, a request from the client device to view the conference item; and

transmitting, from the server, a second graphical output to the client device to display the conference item on the second portion of the panel interface prior to the client device connecting to the second conference, wherein the second portion is an expanded portion of the panel interface to display the conference item.

17. (Currently Amended) The non-transitory computer-readable storage device of claim 16, wherein the program instructions, when executed by the processor, cause the processor to perform operations, the operations comprising:

detecting an initiation of a screen share in the second conference;

determining that a substantive portion of the second conference has started based on the screen share, the substantive portion of the second conference associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the second conference has started.

18. (Currently Amended) The non-transitory computer-readable storage device of claim 16, wherein the program instructions, when executed by the processor, cause the processor to perform operations, the operations comprising:

detecting a voice in an audio portion of the second conference;

converting the voice to text;

comparing the text to the conference item, wherein the conference item is an agenda;

determining that a substantive portion of the second conference has started based on the comparison, the substantive portion of the second conference associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the second conference has started.

19. (Previously Presented) The non-transitory computer-readable storage device of claim 16, wherein the thumbnail indicator is a visual indicator that is a graphical representation of the conference item.

20. (Previously Presented) The non-transitory computer-readable storage device of claim 19, wherein the thumbnail indicator is a visual indicator that is a graphical representation of the conference item, and wherein the visual indicator is at least one of an icon or a text representation of the conference item.

REMARKS

In response to the final Office Action dated May 31, 2024 and the Advisory Action dated August 14, 2024, Applicant amends claims 1, 5-11, and 16-18. No new matter is added. After entry of this Amendment, claims 1-20 are pending in the Application. A Request for Continued Examination under 37 C.F.R. § 1.114 is concurrently submitted. Reconsideration of the Application as amended is respectfully requested in view of these remarks.

Rejections under 35 U.S.C. §103

Claim 1 is rejected under 35 U.S.C. § 103 as being unpatentable over U.S. Patent Application Publication No. 2016/0269504 to Johar et al. ("Johar") in view of U.S. Patent Application Publication No. 2010/0037151 to Ackerman et al. ("Ackerman"), and in further view of U.S. Patent Application Publication No. 2020/0403817 to Daredia et al. ("Daredia").

Regarding claim 1, Johar, either alone or in combination with Ackerman and Daredia, fail to disclose or suggest at least "during the first conference and prior to the client device connecting to the second conference without joining the second conference: transmitting, to the client device, a first graphical output for display on a panel interface associated with the second conference," as claimed. There is no teaching or suggestion in any of the cited references that a user can preview one conference (e.g., a next conference) while participating in another conference (e.g., a current conference). Accordingly, the Applicant submits that claim 1 is allowable over the cited references for at least these reasons.

Claims 2, 4, 7-9, 12-13, 15-16, and 19-20 are rejected under 35 U.S.C. § 103 as being unpatentable over Johar in view of Ackerman in view of Daredia as applied to claim 1 above, and in further view of Ackerman.

Claims 9 and 16 include substantially similar elements as claim 1. Accordingly, the Applicant submits that claims 9 and 16 are allowable over the cited references for at least the same reasons provided above.

Claims 3 and 14 are rejected under 35 U.S.C. § 103 as being unpatentable Johar in view of Ackerman in view of Daredia as applied to claim 1 and 9 above, and in further view of U.S. Patent Application Publication No. 2015/0281149 to Masterson et al. ("Masterson").

Regarding claims 3 and 14, Masterson fails to overcome the deficiencies of Johar, Ackerman, and Daredia. Accordingly, the Applicant submits that claims 3 and 14 are allowable over the cited references for at least the same reasons provided above.

Claims 5, 11, and 17 are rejected under 35 U.S.C. § 103 as being unpatentable over Johar in view of Ackerman in view of Daredia as applied to claim 1 and 9 above, and in further view of U.S. Patent No. 11,245,735 to Kwatra et al. ("Kwatra").

Regarding claims 5, 11, and 17, Kwatra fails to overcome the deficiencies of Johar, Ackerman, and Daredia. Accordingly, the Applicant submits that claims 5, 11, and 17 are allowable over the cited references for at least the same reasons provided above.

Claims 6, 10, and 18 are rejected under 35 U.S.C. § 103 as being unpatentable Johar in view of Ackerman in view of Daredia as applied to claim 1 and 9 above, and in further view of U.S. Patent No. 11,488,634 to Decrop et al. ("Decrop").

Regarding claims 6, 10, and 18, Decrop fails to overcome the deficiencies of Johar, Ackerman, and Daredia. Accordingly, the Applicant submits that claims 6, 10, and 18 are allowable over the cited references for at least the same reasons provided above.

Claims 2-8 are dependent upon claim 1. Claims 10-15 are dependent upon claim 9. Claims 17-20 are dependent upon claim 16. Applicant accordingly requests that the rejection of claims 1-20 under 35 U.S.C. § 103 be reconsidered and withdrawn.

Conclusion

It is submitted that this Amendment has antecedent basis in the application as originally filed, including the specification, claims and drawings, and that this Amendment does not add any new subject matter to the application. It is submitted that this Amendment places the application in suitable condition for allowance, notice of which is requested.

The Examiner is invited to contact the undersigned at the telephone number listed below if the Examiner believes an Examiner's amendment would expedite prosecution of the Application.

Respectfully submitted,

YOUNG BASILE
HANLON & MACFARLANE, P.C.

/Neil C. Maskeri/

Neil C. Maskeri
Registration No. 61,591
T: (248) 649-3333
F: (248) 649-3338

3001 West Big Beaver Road, Ste. 624
Troy, Michigan 48084-3107

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 17/472,033	Filing Date 09/10/2021	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) 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), (i), 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 $100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $480 =	
☐ 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	08/21/2024	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $480 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(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".	/ROSS W BROWN/
*** 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.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/472,033	09/10/2021	Nick Swerdlow	ZOOM-164-C	1532

177453 7590 08/14/2024

Zoom Video Communications, Inc. at Young Basile
3001 West Big Beaver Rd., Ste. 624
Troy, MI 48084

EXAMINER	
PATEL, PARMANAND D	

ART UNIT	PAPER NUMBER
2143	

NOTIFICATION DATE	DELIVERY MODE
08/14/2024	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):

docketing@youngbasile.com

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 145 of 547

Advisory Action Before the Filing of an Appeal Brief	**Application No.** 17/472,033	**Applicant(s)** Swerdlow, Nick	
	Examiner PARMANAND D PATEL	**Art Unit** 2143	**AIA (FITF) Status** Yes

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

THE REPLY FILED 22 July 2024 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

NO NOTICE OF APPEAL FILED

1. ☑ The reply was filed after a final rejection. No Notice of Appeal has been filed. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114 if this is a utility or plant application. Note that RCEs are not permitted in design applications. The reply must be filed within one of the following time periods:
   a) ☐ The period for reply expires ____ months from the mailing date of the final rejection.
   b) ☑ The period for reply expires on: (1) the mailing date of this Advisory Action; or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.
   c) ☐ A prior Advisory Action was mailed more than 3 months after the mailing date of the final rejection in response to a first after-final reply filed within 2 months of the mailing date of the final rejection.The current period for reply expires ____ months from the mailing date of *the prior Advisory Action* or SIX MONTHS from the mailing date of the final rejection, whichever is earlier.
   Examiner Note: If box 1 is checked, check either box (a), (b) or (c). ONLY CHECK BOX (b) WHEN THIS ADVISORY ACTION IS THE FIRST RESPONSE TO APPLICANTS FIRST AFTER-FINAL REPLY WHICH WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. ONLY CHECK BOX (c) IN THE LIMITED SITUATION SET FORTH UNDER BOX (c). See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) or (c) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37CFR 41.37(a).

AMENDMENTS

3. ☑ The proposed amendments filed after a final rejection, but prior to the date of filing a brief, will not be entered because
   a) ☑ They raise new issues that would require further consideration and/or search (see NOTE below);
   b) ☐ They raise the issue of new matter (see NOTE below);
   c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
   d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.
   NOTE: Claims 1, 9 and 16 requires consideration and update search (See 37 CFR 1.116 and 41.33(a)).
4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
5. ☐ Applicant's reply has overcome the following rejection(s): _____
6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
7. ☑ For purposes of appeal, the proposed amendment(s):(a) ☑ will not be entered; or (b) ☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____
9. ☐ The affidavit or other evidence filed after final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
10. ☐ The affidavit or other evidence filed after the date of filing the Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
11. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

12. ☑ The request for reconsideration has been considered but does NOT place the application in condition for allowance because: Claims 1, 9 and 16 requires consideration and update search.
13. ☐ Note the attached Information *Disclosure Statement*(s). (PTO/SB/08) Paper No(s). _____
14. ☑ Other: See PTO-2323 and interview summary.

STATUS OF CLAIMS

15. The status of the claim(s) is (or will be) as follows:
    Claim(s) allowed:_____.
    Claim(s) objected to:_____.
    Claim(s) rejected:1-20.
    Claim(s) withdrawn from consideration:_____.

/PARMANAND D PATEL/ Examiner, Art Unit 2143	/JENNIFER N WELCH/ Supervisory Patent Examiner, Art Unit 2143

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 146 of 547

Examiner-Initiated Interview Summary	**Application No.** 17/472,033	**Applicant(s)** Swerdlow, Nick		
	Examiner PARMANAND D PATEL	**Art Unit** 2143	**AIA (First Inventor to File) Status** Yes	**Page** 1 of 1

All Participants (applicant, applicants representative, PTO personnel)	**Title**	**Type**
PARMANAND D PATEL	Examiner	Telephonic
Neil Maskeri	Attorney	

Date of Interview: 08 August 2024

Issues Discussed:

Proposed Amendment(s)

In response to AFCP 2.0, examiner initiated interview examiner discussed proposed amendment for particular persistent panel siting on top of the client device display. Applicant described what is persistent panel is by point out specification paragraphs 70, 122 where it mentions persistent panel. Examiner stated that based on the disclosures conference panel interpreted as persistent panel therefore, examiner recommended to amend further with another feature and applicant agrees to add another features to move prosecution. Examiner update search and consideration upon official response receive.

/PARMANAND D PATEL/ Examiner, Art Unit 2143	

Applicant is reminded that a complete written statement as to the substance of the interview must be made of record in the application file. It is the applicants responsibility to provide the written statement, unless the interview was initiated by the Examiner and the Examiner has indicated that a written summary will be provided. See MPEP 713.04
Please further see:
MPEP 713.04
Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews, paragraph (b)
37 CFR § 1.2 Business to be transacted in writing

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

Zoom Communications, Inc. v. Ricoh Company, Ltd.
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AFCP 2.0 Decision

Application No.	Applicant(s)	
17/472,033	Swerdlow, Nick	
Examiner	**Art Unit**	**AIA (FITF) Status**
PARMANAND D PATEL	2143	Yes

This is in response to the After Final Consideration Pilot request filed 22 July 2024.

1. **Improper Request** – The AFCP 2.0 request is improper for the following reason(s) and the after final amendment submitted with the request will be treated under pre-pilot procedure.

   ☐ An AFCP 2.0 request form PTO/SB/434 (or equivalent document) was not submitted.

   ☐ A non-broadening amendment to at least one independent claim was not submitted.

   ☐ The request is not the first proper AFCP 2.0 request submitted in response to the most recent final rejection.

   ☐ Other: _____

2. **Proper Request**

   A. After final amendment submitted with the request will not be treated under AFCP 2.0.
   The after final amendment cannot be reviewed and a search conducted within the guidelines of the pilot program.

   ☐ The after final amendment will be treated under pre-pilot procedure.

   B. Updated search and/or completed additional consideration.
   The examiner performed an updated search and/or completed additional consideration of the after final amendment within the time authorized for the pilot program. The result(s) of the updated search and/or completed additional consideration are:

   ☐ 1. All of the rejections in the most recent final Office action are overcome and a Notice of Allowance is issued herewith.

   ☐ 2. The after final amendment would not overcome all of the rejections in the most recent final Office action . See attached interview summary for further details.

   ☑ 3. The after final amendment was reviewed, and it raises a new issue(s). See attached interview summary for further details.

   ☐ 4. The after final amendment raises new issues, but would overcome all of the rejections in the most recent final Office action. A decision on determining allowability could not be made within the guidelines of the pilot. See attached interview summary for further details, including any newly discovered prior art.

   ☐ 5. Other: _____

   Examiner Note: Please attach an interview summary when necessary as described above.

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 148 of 547

DO NOT ENTER: /P.D.P/

08/08/2024

Atty. Doc. No. ZOOM-164-C PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Zoom Video Communications, Inc.	
First Named Inventor:	Nick Swerdlow	
Serial Number:	17/472,033	
Filing Date:	September 10, 2021	
Examiner/Art Unit:	Parmanand D. Patel / 2143	Conf. No.: 1532
Title:	Previewing Conference Items Prior to Joining a Conference	

AMENDMENT AFTER FINAL

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

Commissioner:

In response to the final Office Action dated May 31, 2024, please enter the remarks and amendments, if any, in the above-identified patent application as indicated below.

If any extensions of time are needed for timely acceptance of this reply and associated papers, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment from Deposit Account No. 25-0115. If any other fees must be paid in connection with this reply, Applicant authorizes payment from Deposit Account No. 25-0115.

☐ Amendments to the Abstract.

☐ Amendments to the Specification.

☒ Amendments to the Claims.

☐ Amendments to the Drawings.

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/472,033	**07/22/2024 01:23:50 PM Z ET**	**ZOOM-164-C**

Title of Invention

Previewing Conference Items Prior To Joining A Conference

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1532	FILED BY	Jessica Tumblin
PATENT CENTER #	66458684	FILING DATE	09/10/2021
CUSTOMER #	177453	FIRST NAMED INVENTOR	Nick Swerdlow
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Neil Maskeri

Documents

TOTAL DOCUMENTS: 4

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
Certification and Request for Consideration Under the After Final Consideration.pdf		1	After Final Consideration Program Request	26 KB
ZOOM164C_Amd_20240531_20240722.pdf		9	-	61 KB
ZOOM164C_Amd_20240531_20240722-A.NE.pdf	(1-1)	1	Response After Final Action	18 KB
ZOOM164C_Amd_20240531_20240722-CLM.pdf	(2-6)	5	Claims	48 KB
ZOOM164C_Amd_20240531	(7-9)	3	Applicant Arguments/Remarks	22 KB

1_20240722-REM.pdf	Made in an Amendment

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
Certification and Request for Consideration Under the After Final Consideration.pdf	1ED6A8590D4DB032BB9B55958E5C50C627DEADCA323420EEEF312FEC9502A659EC3F308DF3D1327448F0BA51C63FEF44B2BD6D6A7A12F87D84E77F2DFD01646C
ZOOM164C_Amd_20240531_20240722.pdf	41382A2504D1D3A43B83640980C607DDFF88D1BA27FF59E172F2FFED27CDEACBE95770D5F33AF1F11B2A05A27E326DFD31C96547B2C0DB6F640581FBA6D1DA04
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ZOOM164C_Amd_20240531_20240722-CLM.pdf	1D36A5B616C6B128DC8D18A0FBC13B5BFE6F2FDE11B06E7E73D89C088661BF19B9608C7EE3A66A786A36DAA83766983F60424DC23F7C9DCD547DF2B1FAE97C47
ZOOM164C_Amd_20240531_20240722-REM.pdf	51AECA7B1F4000D418387468933B544F3DFB1E2D3C0AF74DA6201C0301C7A203D13A2751F910F5FCEA09BDF5BFF0DF80137DF71F1E9F9570E87B7B9A506C1387

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

New Applications Under 35 U.S.C. 111

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

Doc Code: A.NE.AFCP
Document Description: After Final Consideration Program Request

PTO/SB/434 (3-22)

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

Practitioner Docket No.:	Application No.:	Filing Date:
ZOOM-164-C	17/472,033	September 10, 2021

First Named Inventor:	Title:
Nick Swerdlow	Previewing Conference Items Prior To Joining A Conference

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

1. The above-identified application is (i) an original utility, plant, or design nonprovisional application filed under 35 U.S.C. 111(a) [a continuing application (*e.g.*, a continuation or divisional application) is filed under 35 U.S.C. 111(a) and is eligible under (i)], or (ii) an international application that has entered the national stage in compliance with 35 U.S.C. 371(c).

2. The above-identified application contains an outstanding final rejection.

3. Submitted herewith is a response under 37 CFR 1.116 to the outstanding final rejection. The response includes an amendment to at least one independent claim, and the amendment does not broaden the scope of the independent claim in any aspect.

4. This certification and request for consideration under AFCP 2.0 is the only AFCP 2.0 certification and request filed in response to the outstanding final rejection.

5. Applicant is willing and available to participate in any interview requested by the examiner concerning the present response.

6. This certification and request is being filed electronically using the USPTO's patent electronic filing system.

7. Any fees that would be necessary consistent with current practice concerning responses after final rejection under 37 CFR 1.116, *e.g.*, extension of time fees, are being concurrently filed herewith. [There is no additional fee required to request consideration under AFCP 2.0.]

8. By filing this certification and request, applicant acknowledges the following:

- Reissue applications and reexamination proceedings are not eligible to participate in AFCP 2.0.
- The examiner will verify that the AFCP 2.0 submission is compliant, *i.e.*, that the requirements of the program have been met (see items 1 to 7 above). For compliant submissions:
  - The examiner will review the response under 37 CFR 1.116 to determine if additional search and/or consideration (i) is necessitated by the amendment and (ii) could be completed within the time allotted under AFCP 2.0. If additional search and/or consideration is required but cannot be completed within the allotted time, the examiner will process the submission consistent with current practice concerning responses after final rejection under 37 CFR 1.116, *e.g.*, by mailing an advisory action.
  - If the examiner determines that the amendment does not necessitate additional search and/or consideration, or if the examiner determines that additional search and/or consideration is required and could be completed within the allotted time, then the examiner will consider whether the amendment places the application in condition for allowance (after completing the additional search and/or consideration, if required). If the examiner determines that the amendment does not place the application in condition for allowance, then the examiner will contact the applicant and request an interview.
    - The interview will be conducted by the examiner, and if the examiner does not have negotiation authority, a primary examiner and/or supervisory patent examiner will also participate.
    - If the applicant declines the interview, or if the interview cannot be scheduled within ten (10) calendar days from the date that the examiner first contacts the applicant, then the examiner will proceed consistent with current practice concerning responses after final rejection under 37 CFR 1.116.

Signature	Date	Practitioner Registration No.
/Neil C. Maskeri/	July 22, 2024	61,591
Name (Print/Typed)	Telephone Number	
Neil C. Maskeri	(248) 649-3333	

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

☐ * Total of 1 forms are submitted.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Zoom Video Communications, Inc.
First Named Inventor:	Nick Swerdlow
Serial Number:	17/472,033
Filing Date:	September 10, 2021
Examiner/Art Unit:	Parmanand D. Patel / 2143 Conf. No.: 1532
Title:	Previewing Conference Items Prior to Joining a Conference

AMENDMENT AFTER FINAL

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

Commissioner:

In response to the final Office Action dated May 31, 2024, please enter the remarks and amendments, if any, in the above-identified patent application as indicated below.

If any extensions of time are needed for timely acceptance of this reply and associated papers, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment from Deposit Account No. 25-0115. If any other fees must be paid in connection with this reply, Applicant authorizes payment from Deposit Account No. 25-0115.

☐ Amendments to the Abstract.

☐ Amendments to the Specification.

☒ Amendments to the Claims.

☐ Amendments to the Drawings.

Listing of the Claims:

1. (Currently Amended) A method for previewing a conference in progress, comprising:

obtaining a conference item associated with the conference;

prior to a client device connecting to the conference without joining the conference:

transmitting, to the client device, a first graphical output for display on a persistent panel interface associated with the conference that remains on top of a display of the client device, the persistent panel interface having a first portion and is expandable to display a second portion, the first portion including a thumbnail indicator of the conference item;

receiving, at a server, a request from the client device to view the conference item; and

transmitting, from the server, a second graphical output to the client device based on the request to display the conference item on the second portion of the persistent panel interface prior to the client device connecting to the conference, wherein the second portion is an expanded portion of the persistent panel interface to display the conference item.

2. (Original) The method of claim 1, wherein the conference item is an editable document.

3. (Previously Presented) The method of claim 1, wherein the conference item is an editable document, the method comprising:

transmitting a notification to participant client devices, wherein the notification indicates that the editable document has been modified.

4. (Original) The method of claim 1, wherein the conference item is at least one of an agenda, a real-time transcript, a downloadable file, or a real-time presentation.

5. (Previously Presented) The method of claim 1, comprising:

detecting an initiation of a screen share in the conference;

determining that a substantive portion of the conference has started based on the screen share, the substantive portion of the conference associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference has started.

6. (Previously Presented) The method of claim 1, comprising:

detecting a voice in an audio portion of the conference;

converting the voice to text;

comparing the text to the conference item, wherein the conference item is an agenda;

determining that a substantive portion of the conference has started based on the comparison, the substantive portion of the conference associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference has started.

7. (Previously Presented) The method of claim 1, wherein the display of the client device includes a panel interface associated with the conference, wherein the panel interface includes a first portion and a second portion.

8. (Previously Presented) The method of claim 1, wherein the display of the client device includes a panel interface associated with the conference, wherein the panel interface includes a first portion and a second portion, and wherein the first graphical output is displayed on the first portion of the panel interface and the second graphical output is displayed on the second portion of the panel interface.

9. (Currently Amended) A system for previewing a conference in progress, comprising:

a server configured to:

obtain a conference item associated with the conference; and

transmit a first graphical output based on the conference item prior to a client device connecting to the conference;

a client device configured to display the first graphical output on a persistent panel interface associated with the conference prior to the client device connecting to the conference

without joining the conference, the persistent panel interface configured to remain on top of a display of the client device and having a first portion and expandable to display a second portion, the first portion including a thumbnail indicator of the conference item;

prior to the client device joining the conference, the server configured to:

receive a request from the client device to view the conference item; and

transmit a second graphical output to the client device based on the request; and

prior to the client device joining the conference, the client device configured to:

display the conference item on the second portion of the persistent panel interface,

wherein the second portion is an expanded portion of the persistent panel interface.

10. (Previously Presented) The system of claim 9, wherein the server is configured to:

detect a voice in an audio portion of the conference;

convert the voice to text;

compare the text to the conference item, wherein the conference item is an agenda;

determine that a substantive portion of the conference has started based on the comparison, the substantive portion of the conference associated with an agenda item; and

transmit a notification to the client device that indicates that the substantive portion of the conference has started.

11. (Previously Presented) The system of claim 9, wherein the server is configured to:

detect an initiation of a screen share in the conference;

determine that a substantive portion of the conference has started based on the screen share, the substantive portion of the conference associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference has started.

12. (Previously Presented) The system of claim 9, wherein the thumbnail indicator is a visual indicator that is a graphical representation of the conference item.

13. (Previously Presented) The system of claim 9, wherein the thumbnail indicator is a visual indicator that is a graphical representation of the conference item, and wherein the visual indicator is at least one of an icon or a text representation of the conference item.

14. (Original) The system of claim 9, wherein the conference item is an editable document, the server configured to:

transmit a notification to participant client devices, wherein the notification indicates that the editable document has been modified.

15. (Original) The system of claim 9, wherein the conference item is at least one of an agenda, a real-time transcript, a downloadable file, or a real-time presentation.

16. (Currently Amended) A non-transitory computer-readable storage device for previewing a conference in progress, the non-transitory computer-readable storage device including program instructions that, when executed by a processor, cause the processor to perform operations, the operations comprising:

obtaining a conference item associated with the conference;

prior to a client device connecting to the conference in progress without joining the conference in progress:

transmitting a first graphical output for display on a persistent panel interface associated with the conference that remains on top of a display of the client device, the persistent panel interface having a first portion and expandable to display a second portion, the first portion including a thumbnail indicator of the conference item;

receiving, at a server, a request from the client device to view the conference item; and

transmitting, from the server, a second graphical output to the client device to display the conference item on the second portion of the persistent panel interface prior to the client device connecting to the conference, wherein the second portion is an expanded portion of the persistent panel interface to display the conference item.

17. (Previously Presented) The non-transitory computer-readable storage device of claim 16, wherein the program instructions, when executed by the processor, cause the processor to perform operations, the operations comprising:

detecting an initiation of a screen share in the conference;

determining that a substantive portion of the conference has started based on the screen share, the substantive portion of the conference associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference has started.

18. (Previously Presented) The non-transitory computer-readable storage device of claim 16, wherein the program instructions, when executed by the processor, cause the processor to perform operations, the operations comprising:

detecting a voice in an audio portion of the conference;

converting the voice to text;

comparing the text to the conference item, wherein the conference item is an agenda;

determining that a substantive portion of the conference has started based on the comparison, the substantive portion of the conference associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference has started.

19. (Previously Presented) The non-transitory computer-readable storage device of claim 16, wherein the thumbnail indicator is a visual indicator that is a graphical representation of the conference item.

20. (Previously Presented) The non-transitory computer-readable storage device of claim 19, wherein the thumbnail indicator is a visual indicator that is a graphical representation of the conference item, and wherein the visual indicator is at least one of an icon or a text representation of the conference item.

REMARKS

In response to the final Office Action dated May 31, 2024, Applicant amends claims 1, 9, and 16. No new matter is added. After entry of this Amendment, claims 1-20 are pending in the Application. Reconsideration of the Application as amended is respectfully requested in view of these remarks.

Applicant respectfully submits that this Amendment is suitable for entry after final rejection as it places all claims in condition for allowance, adds no new claims without canceling a finally rejected claim, and/or requires little or no new consideration. Alternatively, it places the Application in better condition for appeal.

Applicant respectfully submits this Amendment conforms to the requirements of the After Final Consideration Pilot Program 2.0 and therefore submits Form PTO/SB/434 concurrent with this Amendment. Applicant submits that this Amendment places the Application in condition for allowance.

Rejections under 35 U.S.C. §103

Claim 1 is rejected under 35 U.S.C. § 103 as being unpatentable over U.S. Patent Application Publication No. 2016/0269504 to Johar et al. ("Johar") in view of U.S. Patent Application Publication No. 2010/0037151 to Ackerman et al. ("Ackerman"), and in further view of U.S. Patent Application Publication No. 2020/0403817 to Daredia et al. ("Daredia").

Regarding claim 1, Johar, either alone or in combination with Ackerman and Daredia, fail to disclose or suggest at least "transmitting, to the client device, a first graphical output for display on a persistent panel interface associated with the conference that remains on top of a display of the client device, the persistent panel interface having a first portion and is expandable to display a second portion, the first portion including a thumbnail indicator of the conference item," as claimed. The Office Action admits that Johar fails to disclose or suggest transmitting a first graphical output for display on a panel interface associated with the conference. Ackerman and Daredia are silent with respect to a persistent panel interface that remains on top of a display of the client device, and therefore fail to overcome the deficiencies of Johar. There is no suggestion in Ackerman or Daredia that the panel interface is a persistent panel interface that

remains on top of the display of the client device. Accordingly, the Applicant submits that claim 1 is allowable over the cited references for at least these reasons.

Claims 2, 4, 7-9, 12-13, 15-16, and 19-20 are rejected under 35 U.S.C. § 103 as being unpatentable over Johar in view of Ackerman in view of Daredia as applied to claim 1 above, and in further view of Ackerman.

Claims 9 and 16 include substantially similar elements as claim 1. Accordingly, the Applicant submits that claims 9 and 16 are allowable over the cited references for at least the same reasons provided above.

Claims 3 and 14 are rejected under 35 U.S.C. § 103 as being unpatentable Johar in view of Ackerman in view of Daredia as applied to claim 1 and 9 above, and in further view of U.S. Patent Application Publication No. 2015/0281149 to Masterson et al. ("Masterson").

Regarding claims 3 and 14, Masterson fails to overcome the deficiencies of Johar, Ackerman, and Daredia. Accordingly, the Applicant submits that claims 3 and 14 are allowable over the cited references for at least the same reasons provided above.

Claims 5, 11, and 17 are rejected under 35 U.S.C. § 103 as being unpatentable over Johar in view of Ackerman in view of Daredia as applied to claim 1 and 9 above, and in further view of U.S. Patent No. 11,245,735 to Kwatra et al. ("Kwatra").

Regarding claims 5, 11, and 17, Kwatra fails to overcome the deficiencies of Johar, Ackerman, and Daredia. Accordingly, the Applicant submits that claims 5, 11, and 17 are allowable over the cited references for at least the same reasons provided above.

Claims 6, 10, and 18 are rejected under 35 U.S.C. § 103 as being unpatentable Johar in view of Ackerman in view of Daredia as applied to claim 1 and 9 above, and in further view of U.S. Patent No. 11,488,634 to Decrop et al. ("Decrop").

Regarding claims 6, 10, and 18, Decrop fails to overcome the deficiencies of Johar, Ackerman, and Daredia. Accordingly, the Applicant submits that claims 6, 10, and 18 are allowable over the cited references for at least the same reasons provided above.

Claims 2-8 are dependent upon claim 1. Claims 10-15 are dependent upon claim 9. Claims 17-20 are dependent upon claim 16. Applicant accordingly requests that the rejection of claims 1-20 under 35 U.S.C. § 103 be reconsidered and withdrawn.

Conclusion

It is submitted that this Amendment has antecedent basis in the application as originally filed, including the specification, claims and drawings, and that this Amendment does not add any new subject matter to the application. It is submitted that this Amendment places the application in suitable condition for allowance, notice of which is requested.

The Examiner is invited to contact the undersigned at the telephone number listed below if the Examiner believes an Examiner's amendment would expedite prosecution of the Application.

Respectfully submitted,

YOUNG BASILE
HANLON & MACFARLANE, P.C.

/Neil C. Maskeri/

Neil C. Maskeri
Registration No. 61,591
T: (248) 649-3333
F: (248) 649-3338

3001 West Big Beaver Road, Ste. 624
Troy, Michigan 48084-3107

PTO/SB/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 17/472,033	Filing Date 09/10/2021	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) 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), (i), 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 $100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $480 =	
☐ 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	07/22/2024	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $480 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(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.	PSS
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/MARY R HUNTER/
*** 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.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/472,033	09/10/2021	Nick Swerdlow	ZOOM-164-C	1532

177453 7590 05/31/2024

Zoom Video Communications, Inc. at Young Basile
3001 West Big Beaver Rd., Ste. 624
Troy, MI 48084

EXAMINER	
PATEL, PARMANAND D	

ART UNIT	PAPER NUMBER
2143	

NOTIFICATION DATE	DELIVERY MODE
05/31/2024	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):

docketing@youngbasile.com

Zoom Communications, Inc. v. Ricoh Company, Ltd.
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Office Action Summary	Application No. 17/472,033	Applicant(s) Swerdlow, Nick	
	Examiner PARMANAND D PATEL	Art Unit 2143	AIA (FITF) Status Yes

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

Period for Reply

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

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

Status

1)☑ Responsive to communication(s) filed on 02/14/2024.

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

2a)☑ This action is **FINAL.** 2b) ☐ This action is non-final.

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

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1-20 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-20 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

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

Application Papers

10)☐ The specification is objected to by the Examiner.

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

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

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

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

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

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

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

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DETAILED ACTION

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

Response to Amendment

2. The amendment filed 02/14/2024 has been entered. Claims 1-20 are pending for examination.

Claim Rejections - 35 USC § 103

3. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

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

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1 is rejected under 35 U.S.C. 103 as being unpatentable over Johar et al. (US Pub 2016/0269504) hereinafter Johar in view of Ackerman et al. (US Pub

2010/0037151) hereinafter Ackerman and further in view of Daredia et al. (US Pub 2020/0403817) hereinafter Daredia.

Regarding claim 1, Johar teaches, a method for previewing a conference in progress (Johar; a user need not be logged in to the video call to see which of the others users is connected to the video call, who of the other users is not connected to the video call, and who of the users are present in the application (in progress meeting, user able to preview list of participants logged in and who haven't logged in); paragraph 43), comprising:

- obtaining a conference item associated with the conference (Johar; as shown in figure 5A, interface 506 (user able to view who join to the meeting prior to joining) display upon generating the interface 504 (interface 506 as second portion as conference item about list of participants); paragraph 43);
- prior to a client device connecting to the without joining the conference (Johar; key individual (i.e., a manager) would benefit from a system that allows them to quickly identify, before joining the virtual meeting, that all of the other invited participants are present in the meeting; paragraph 13):
- receiving, at a server, a request from the client device to view the conference item (Johar; user interface button is operable to retrieve detailed information on each of the participants in the virtual meeting conversation (the user profiles to which the graphical identifiers correspond), further, upon receiving a selection at the button (receiving request) the device generates interface as illustrated in

figure 5C, further, as shown in figure 5A, interface 506 (user able to view who join to the meeting) display upon generating the interface 504; paragraph 43);

- transmitting, from the server, a second graphical output to the client device based on the request to display the conference item on the second portion of the panel interface prior to the client device connecting to the conference in progress (Johar; as shown in figure 5A, interface 506 (user able to view who join to the meeting prior to joining) display upon generating the interface 504 (interface 506 as second portion as conference item about list of participants); paragraph 43, further, as shown in figure 5C, virtual video meeting started and user wants to see list of participants without joining to the meeting; paragraph 50).

Johar do not teach expressly,

- transmitting, to the client device, a first graphical output for display on a panel interface associated with the conference, the panel interface having a first portion and is expandable to display a second portion, the first portion including an thumbnail indicator of the conference item;
- wherein the second portion is an expanded portion of the panel interface to display the conference item

However Daredia teaches

- transmitting, to the client device, a first graphical output for display on a panel interface associated with the conference, the panel interface having a first portion and is expandable to display a second portion, the first portion including an thumbnail indicator of the conference item (Daredia; as shown in figure 4B, there are plural regions in the meeting interface such as document region 412a,

a video region 412 b, a transcript region 412 c, and a user list 412 d where based on the text transcription can also follow the highlight box 414 within the document region 412 a and the video within the video region 412 b (as agenda item selected from the region 412a region (thumbnail of the agenda in first portion, second region with text transcript and video display); paragraph 82 and 86);

- wherein the second portion is an expanded portion of the panel interface to display the conference item (Daredia; second portion as transcript and video corresponding to the agenda selection in first portion; paragraph 86)

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Daredia technique of conference items displaying in different regions as text transcript and video region corresponds with agenda to modify preview list of participants before joining to the virtual meeting of Johar. It would have been motivated to provides an improved conferencing system to displaying conference items in plurality of regions to view improved interface for better presentation.

6. Claims 2, 4, 7-9, 12-13, 15-16 and 19-20 are rejected under 35 U.S.C. 103 as being unpatentable over Johar et al. (US Pub 2016/0269504) hereinafter Johar in view of Ackerman et al. (US Pub 2010/0037151) hereinafter Ackerman and further in view of Daredia et al. (US Pub 2020/0403817) hereinafter Daredia as applied to claim 1 above, and further in view of Ackerman et al. (US Pub 2010/0037151) hereinafter Ackerman.

Regarding claim 2, Johar and Daredia teaches all of the claim 1. Johar and Daredia do not teach expressly,

- wherein the conference item is an editable document

However, Ackerman teaches,

- wherein the conference item is an editable document (Ackerman; presenter/host can modify the document in real time (document editable); paragraph 86).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Ackerman's technique of conference items displaying in different regions as text transcript and video region corresponds with agenda to modify preview list of participants before joining to the virtual meeting, and conference items displaying in different regions as text transcript and video region corresponds with agenda of Johar and Daredia. It would have been motivated to provides an improved multi-media conferencing system to organized conference items in plurality of portions to view improved interface.

Regarding claim 4, Johar and Daredia teaches all of the claim 1. Johar and Daredia do not teach expressly,

- wherein the conference item is at least one of an agenda, a real-time transcript, a downloadable file, or a real-time presentation

However, Ackerman teaches,

- wherein the conference item is at least one of an agenda, a real-time transcript, a downloadable file, or a real-time presentation (Ackerman; participants views the

conference during real time includes audio/video, PowerPoint, document manipulation; paragraph 131).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Ackerman's technique of conference items displaying in different regions as text transcript and video region corresponds with agenda to modify preview list of participants before joining to the virtual meeting, and conference items displaying in different regions as text transcript and video region corresponds with agenda of Johar and Daredia. It would have been motivated to provides an improved multi-media conferencing system to organized conference items in plurality of portions to view improved interface.

Regarding claim 7, Johar and Daredia teaches all of the claim 1. Johar and Daredia do not teach expressly,

- wherein the display of the client device includes a panel interface associated with the conference, wherein the panel interface includes a first portion and a second portion

However, Ackerman teaches,

- wherein the display of the client device includes a panel interface associated with the conference, wherein the panel interface includes a first portion and a second portion (Ackerman; as shown in figure 4, conference display shown two portions content sectors 62a-b and 62c-n where content displays and another area networking area 56 where participant list pane and other pane where user

perform text chat communication and attachment (conference display having two panel interface); paragraphs 139-140).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Ackerman's technique of conference items displaying in different regions as text transcript and video region corresponds with agenda to modify preview list of participants before joining to the virtual meeting, and conference items displaying in different regions as text transcript and video region corresponds with agenda of Johar and Daredia. It would have been motivated to provides an improved multi-media conferencing system to organized conference items in plurality of portions to view improved interface.

Regarding claim 8, Johar and Daredia teaches all of the claim 1. Johar and Daredia do not teach expressly,

- wherein the display of the client device includes a panel interface associated with the conference, wherein the panel interface includes a first portion and a second portion, and wherein the first graphical output is displayed on the first portion of the panel interface and the second graphical output is displayed on the second portion of the panel interface

However, Ackerman teaches,

- wherein the display of the client device includes a panel interface associated with the conference, wherein the panel interface includes a first portion and a second portion (Ackerman; as shown in figure 4, conference display shown two portions content sectors 62a-b and 62c-n where content displays and another area

networking area 56 where participant list pane and other pane where user perform text chat communication and attachment (conference display having two panel interface); paragraphs 139-140), and wherein the first graphical output is displayed on the first portion of the panel interface and the second graphical output is displayed on the second portion of the panel interface (Ackerman; as shown in figure 4, conference display shown two portions content sectors 62a-b and 62c-n where content displays (first portion where content display) and another area networking area 56 where participant list pane and other pane where user perform text chat communication and attachment (as second portion where participants list, test chat and attachments pane display); paragraphs 139-140).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Ackerman's technique of conference items displaying in different regions as text transcript and video region corresponds with agenda to modify preview list of participants before joining to the virtual meeting, and conference items displaying in different regions as text transcript and video region corresponds with agenda of Johar and Daredia. It would have been motivated to provides an improved multi-media conferencing system to organized conference items in plurality of portions to view improved interface.

Claims 9 is system claim that corresponding to method claim 1. Therefore, claim is rejected for the same reason as claim 1 above.

Regarding claim 12, Johar and Daredia teaches all of the claim 9. Johar and Daredia do not teaches,

- wherein the thumbnail indicator is a visual indicator that is a graphical representation of the conference item (as shown in figure 4B, there are plural regions in the meeting interface such as document region 412a, a video region 412 b, a transcript region 412 c, and a user list 412 d where based on the text transcription can also follow the highlight box 414 within the document region 412 a and the video within the video region 412 b (as agenda item selected from the region 412a region (thumbnail of the agenda in first portion, second region with text transcript and video display); paragraph 82 and 86).

However, Daredia teaches,

- wherein the thumbnail indicator is a visual indicator that is a graphical representation of the conference item (Daredia; as shown in figure 4B, there are plural regions in the meeting interface such as document region 412a, a video region 412 b, a transcript region 412 c, and a user list 412 d where based on the text transcription can also follow the highlight box 414 within the document region 412 a and the video within the video region 412 b (as agenda item selected from the region 412a region (thumbnail of the agenda in first portion, second region with text transcript and video display); paragraph 82 and 86).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Ackerman technique of conference items displaying in different regions as text transcript and video region corresponds with agenda to modify preview list of participants before joining to the virtual meeting of Johar. It would have

been motivated to provides an improved conferencing system to displaying conference items in plurality of regions to view improved interface for better presentation.

Regarding claim 13, Johar and Daredia teaches all of the claim 9. Johar and Daredia do not teaches,

- wherein the thumbnail indicator is a visual indicator that is a graphical representation of the conference item, and wherein the visual indicator is at least one of an icon, or a text representation of the conference item.

However, Daredia teaches,

- wherein the thumbnail indicator is a visual indicator that is a graphical representation of the conference item, and wherein the visual indicator is at least one of an icon, or a text representation of the conference item (Daredia; as shown in figure 4B, there are plural regions in the meeting interface such as document region 412a, a video region 412 b, a transcript region 412 c, and a user list 412 d where based on the text transcription can also follow the highlight box 414 within the document region 412 a and the video within the video region 412 b (as agenda item selected from the region 412a region (thumbnail of the agenda in first portion, second region with text transcript and video display); paragraph 82 and 86).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Daredia technique of conference items displaying in different regions as text transcript and video region corresponds with agenda to modify preview list of participants before joining to the virtual meeting of Johar. It would have

been motivated to provides an improved conferencing system to displaying conference items in plurality of regions to view improved interface for better presentation.

Claim 15 is system claim that corresponding to method claim 4. Therefore, claim is rejected for the same reason as claim 4 above.

Claim 16 is a non-transitory computer-readable storage device claim that corresponding to method claim 1. Therefore, claim is rejected for the same reason as claim 1 above. In addition, Johar teaches, A non-transitory computer-readable storage device (Johar; fig. 10; memory 86) including program instructions that, when executed by a processor (Johar; fig. 10; processor 84), cause the processor to perform operations, the operations comprising:

Claims 19-20: they are non-transitory computer-readable storage device claim that corresponding to method claims 12-13. Therefore, they are rejected for the same reason as claims 12-13 above.

7. Claims 3 and 14 are rejected under 35 U.S.C. 103 as being unpatentable over Johar et al. (US Pub 2016/0269504) hereinafter Johar in view of Ackerman et al. (US Pub 2010/0037151) hereinafter Ackerman and further in view of Daredia et al. (US Pub 2020/0403817) hereinafter Daredia as applied to claim 1 and 9 above, and further in view of Masterson et al. (US Pub 2015/0281149) hereinafter Masterson.

Regarding claim 3, Johar and Daredia teaches all of the claim 1. Johar and Daredia do not teach expressly,

- transmitting a notification to participant client devices, wherein the notification indicates that the editable document has been modified

However, Masterson teaches,

- transmitting a notification to participant client devices, wherein the notification indicates that the editable document has been modified (Masterson; edited content sent to the user via communication method such as electronic communication message (e.g., electronic mail, text message, instant message, chat message, videoconference message, and the like) and receiving user select attached content item (edited content) and view or read content item; paragraph 18)

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Masterson technique of sending edited content item using test message or email to modify preview list of participants before joining to the virtual meeting, and conference items displaying in different regions as text transcript and video region corresponds with agenda of Johar and Daredia. It would have been motivated to make such combination to efficiently and quickly transmitted content to other user to improve communication.

Claim 14 is system claim that corresponding to method claim 3. Therefore, claim is rejected for the same reason as claim 3 above.

8. Claims 15, 11 and 17 are rejected under 35 U.S.C. 103 as being unpatentable over Johar et al. (US Pub 2016/0269504) hereinafter Johar in view of Ackerman et al. (US Pub 2010/0037151) hereinafter Ackerman and further in view of Daredia et al. (US Pub 2020/0403817) hereinafter Daredia as applied to claim 1 and 9 above, and further in view of Kwatra et al. (US Pat, 11,245,735) hereinafter Kwatra.

Regarding claim 5, Johar and Daredia teaches all of the claim 1. Johar and Daredia do not teach expressly,

- detecting an initiation of a screen share in the conference;
- determining that a substantive portion of the conference has started based on the screen share, the substantive portion of the conference associated with an agenda item; and
- transmitting a notification to the client device that indicates that the substantive portion of the conference has started

However, Kwatra teaches,

- detecting an initiation of a screen share in the conference (Kwatra; during a collaboration screen-sharing, client device initiate a screen-sharing session; col 3 line 39-45);
- determining that a substantive portion of the conference has started based on the screen share, the substantive portion of the conference in progress associated

with an agenda item (Kwatra; agenda share by the presenter user to other participant; col 5 line 28-33); and

- transmitting a notification to the client device that indicates that the substantive portion of the conference has started (Kwatra; presenter initiate the screen sharing session and presenter shares display 118A with multiple users which allows multiple users to view various content in their respective devices; col 3 line 39-51)

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Kwatra technique of screen-sharing content with multiple participant devices to modify preview list of participants before joining to the virtual meeting, and conference items displaying in different regions as text transcript and video region corresponds with agenda of Johar and Daredia. It would have been motivated to make such combination to enable user to quickly and efficiently communicate with multiple participant users via screen sharing during collaboration session.

Claims 11 is system claim that corresponding to method claim 5. Therefore, claim is rejected for the same reason as claim 5 above.

Claims 17 is non-transitory computer-readable storage device claim that corresponding to method claim 5. Therefore, claim is rejected for the same reason as claim 5 above.

9. Claims 6,10 and 18 are rejected under 35 U.S.C. 103 as being unpatentable over Johar et al. (US Pub 2016/0269504) hereinafter Johar in view of Ackerman et al. (US Pub 2010/0037151) hereinafter Ackerman and further in view of Daredia et al. (US Pub 2020/0403817) hereinafter Daredia as applied to claim 1 and 9 above, and further in view of Kwatra et al. (US Pat, 11,245,735) hereinafter Kwatra.

Regarding claim 6, Johar and Daredia teaches all of the claim 1. Johar and Daredia do not teach expressl,

- detecting a voice in an audio portion of the conference;
- converting the voice to text;
- comparing the text to the conference item, wherein the conference item is an agenda;
- determining that a substantive portion of the conference has started based on the comparison, the substantive portion of the conference associated with an agenda item; and
- transmitting a notification to the client device that indicates that the substantive portion of the conference has started

However, Decrop teaches,

- detecting a voice in an audio portion of the conference (Decrop; speakers verbal speech output analyzed; col 7 line 42-47, further, in virtual meeting, a virtual meeting software, capture the audio of the speaker for speech-to-text conversion for later analysis; col 5 line 19-22);

- converting the voice to text (Decrop; convert speech-to-text of speaker speech; col 7 line 42-50);
- comparing the text to the conference item, wherein the conference item is an agenda (Decrop; the output speech-to-text text compared with common topics identified based on semantic similarity between the topics of the speaker and common topics; col 7 46-49);
- determining that a substantive portion of the conference has started based on the comparison, the substantive portion of the conference in progress associated with an agenda item (Decrop; the output speech-to-text text compared with common topics identified based on semantic similarity between the topics of the speaker and common topics (speaker's topic equating as meeting agenda); col 7 line 46-49); and
- transmitting a notification to the client device that indicates that the substantive portion of the conference has started (Decrop; the speaker's verbal communication during the meeting may be analyzed to have topics identified this correlate that video conference started; col 7 line 45-61).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Kwatra technique of Decrop technique of convert speaker speech-to text and compare topics to modify preview list of participants before joining to the virtual meeting, and conference items displaying in different regions as text transcript and video region corresponds with agenda of Johar and Daredia. It would have been motivated to make such combination to enable user to analyze accurately what the speaker says during the presentation by converting speech-to-text.

Response to Arguments

10. Examiner analyze applicant response regarding double patenting that applicant will file a terminal disclaimer at such time therefore examiner will wait.

11. In the remarks, page 9, applicant remarks that of Ackerman does not teach "the panel interface having a first portion and is expandable to display a second portion" and "wherein the second portion is an expanded portion of the panel interface to display the conference item" as amended in claims 1, 9 and 16. Applicant's argument have been considered, but are moot in view of new ground of rejection

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Applicant is required under 37 CFR § 1.111(c) to consider these references fully when responding to this action.

Pan et al. (US 2018/0278891 A1) teaches display regions 202 and 204 where participant panel 204 as second portion expanding to display all the conference participants ([0041 and 0045], fig. 2B).

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

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

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PARMANAND D PATEL whose telephone number is (571)270-7283. The examiner can normally be reached Monday-Friday (IFP) 8:30-5:00.

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, Jennifer Welch can be reached on 571-272-7212. 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 USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/PARMANAND D PATEL/
Examiner, Art Unit 2143

/JENNIFER N WELCH/
Supervisory Patent Examiner, Art Unit 2143

Notice of References Cited	Application/Control No. 17/472,033	Applicant(s)/Patent Under Reexamination Swerdlow, Nick	
	Examiner PARMANAND D PATEL	Art Unit 2143	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Name	CPC Classification	US Classification
*	A	US-20200403817-A1	2020-12-24	Daredia; Shehzad	G06F16/438	1/1
*	B	US-20180278891-A1	2018-09-27	Pan; Grant	H04N21/4316	1/1
	C					
	D					
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FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

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

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/472,033	Swerdlow, Nick
	Examiner	Art Unit
	PARMANAND D PATEL	2143

CPC - Searched*		
Symbol	**Date**	**Examiner**
H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166	11/17/2022	PP
H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166	06/01/2023	PP
H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166	11/03/2023	PP
H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166	05/24/2024	PP

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

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

/PARMANAND D PATEL/ Examiner, Art Unit 2143	

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/472,033	Swerdlow, Nick
	Examiner	Art Unit
	PARMANAND D PATEL	2143

Search Notes		
Search Notes	**Date**	**Examiner**
PE2E search including limited text search combine with CPC symbols using East databases (USPGPUB; USPAT; FPRS; USOCR; EPO; JPO)	11/17/2022	PP
Use PE2E SEARCH and PALM to search inventors and assignee	11/17/2022	PP
Use google scholar to search prior arts	11/17/2022	PP
PE2E search including limited text search combine with CPC symbols using PE2E databases (USPGPUB; USPAT; FPRS; USOCR; EPO; JPO)	05/31/2023	PP
Use PE2E SEARCH and PALM to search inventors and assignee	05/31/2023	PP
Use google scholar to search prior arts	06/01/2023	PP
PE2E search including limited text search combine with CPC symbols using PE2E databases (USPGPUB; USPAT; FPRS; USOCR; EPO; JPO)	11/03/2023	PP
Use PE2E SEARCH and PALM to search inventors and assignee	11/03/2023	PP
Use google scholar to search prior arts	11/03/2023	PP
PE2E search including limited text search combine with CPC symbols using PE2E databases (USPGPUB; USPAT; FPRS; USOCR; EPO; JPO)	05/24/2024	PP
Use PE2E SEARCH and PALM to search inventors and assignee	05/24/2024	PP
Use google scholar to search prior arts	05/24/2024	PP

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**

/PARMANAND D PATEL/ Examiner, Art Unit 2143	

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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
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✓	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	11/18/2022	06/01/2023	11/03/2023	05/24/2024					
	1	✓	✓	✓	✓					
	2	✓	✓	✓	✓					
	3	✓	✓	✓	✓					
	4	✓	✓	✓	✓					
	5	✓	✓	✓	✓					
	6	✓	✓	✓	✓					
	7	✓	✓	✓	✓					
	8	✓	✓	✓	✓					
	9	✓	✓	✓	✓					
	10	✓	✓	✓	✓					
	11	✓	✓	✓	✓					
	12	✓	✓	✓	✓					
	13	✓	✓	✓	✓					
	14	✓	✓	✓	✓					
	15	✓	✓	✓	✓					
	16	✓	✓	✓	✓					
	17	✓	✓	✓	✓					
	18	✓	✓	✓	✓					
	19	✓	✓	✓	✓					
	20	✓	✓	✓	✓					

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PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L76	41	((("SWERDLOW") near3 ("Nick"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/05/24 08:45 AM
L77	1544	((("ZOOM") near3 ("VIDEO") near3 ("COMMUNICATIONS") near3 ("INC"))).AS,AANM.	(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	2024/05/24 08:45 AM
L78	207052	(H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166).cpc.	(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	2024/05/24 08:45 AM
L79	0	L76 AND ((conference NEAR preview$3) AND (graphical NEAR output) AND (join$3 near2 conference) AND (panel NEAR interface) AND (conference NEAR in NEAR progress) AND (second NEAR portion) AND (expanded NEAR portion)).clm.	(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	2024/05/24 08:47 AM

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L80	0	L77 AND ((conference NEAR preview$3) AND (graphical NEAR output) AND (join$3 near2 conference) AND (panel NEAR interface) AND (conference NEAR in NEAR progress) AND (second NEAR portion) AND (expanded NEAR portion)).clm.	(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	2024/05/24 08:47 AM
L81	423919	(interface panel window frame) WITH (expanding expandable extend increase increasing stretch) SAME (second another) near5 (portion region area section) AND @ad<"20210910"	(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	2024/05/24 09:07 AM
L82	108022	(interface panel window frame) WITH (expanding expandable extend increase increasing stretch) near5 (second another) near5 (portion region area section) AND @ad<"20210910"	(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	2024/05/24 09:08 AM
L83	22828	(interface window) WITH (expanding expandable extend increase increasing stretch) near5 (second another) near5 (portion region area section) AND @ad<"20210910"	(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,	OR	ON	ON	2024/05/24 09:11 AM

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			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)				
L84	1389	(interface window) WITH (expanding expandable extend increase increasing stretch) near5 (second another) near5 (portion region area section) SAME ((user near2 interface) GUI) AND @ad<"20210910"	(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	2024/05/24 09:12 AM
L85	16	(interface window) WITH (expanding expandable extend increase increasing stretch) near5 (second another) near5 (portion region area section) SAME (conference meeting) WITH (item agenda content points document presentation) SAME ((user near2 interface) GUI) AND @ad<"20210910"	(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	2024/05/24 09:13 AM
L86	530	(interface window) WITH (expanding expandable extend increase increasing stretch) near5 (second another) near5 (portion region area section) SAME ((user near2 interface) GUI) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/24 09:13 AM
L87	208	(interface window) near5 (expanding expandable extend increase increasing stretch) near5 (second another) near5 (portion region area section)	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/24 09:13 AM

		SAME ((user near2 interface) GUI) AND @ad<"20210910"					
L88	36	(interface window) near5 (expanding expandable extend increase increasing stretch) near5 (second another) near5 (portion region area section) SAME ((user near2 interface) GUI) AND (conference meeting) WITH (item agenda content points document presentation) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/24 09:14 AM
L89	21	(preview$4 review) WITH (conference meeting) near5 (item agenda content points document presentation) SAME ((second another) near5 (portion region area section)) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/24 12:27 PM
L90	35	(preview$4 review) SAME (conference meeting) near5 (item agenda content points document presentation) SAME ((second another) near5 (portion region area section)) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/24 12:38 PM
L91	14	L90 NOT L89	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/24 12:38 PM
L92	2	("20180278891" "20110268263").pn.	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/24 01:38 PM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

Liveboard: a large interactive display supporting group **meetings**, presentations, and remote collaboration

S Elrod, R Bruce, R Gold, D Goldberg… - … the SIGCHI conference …, 1992 - dl.acm.org

This paper describes the Liveboard, a large interactive display system. With nearly one million pixels and an accurate, multi-state, cordless pen, the Liveboard provides a basis for …

☆ Save 99 Cite Cited by 612 Related articles All 6 versions »

36-paraview: An end-user tool for large-data visualization

J Ahrens, B Geveci, C Law, C Hansen… - The visualization …, 2005 - Citeseer

… In addition, the Toolbar contains shortcut **icons** to instantiate … The **area** below the **selection**/navigation window is where the … All processes use the same naming **convention**, and …

☆ Save 99 Cite Cited by 2536 Related articles All 6 versions »

LoRa transmission parameter **selection**

M Bor, U Roedig - 2017 13th International Conference on …, 2017 - ieeexplore.ieee.org

… also offer a certification **program** to guarantee interoperability. … The number of chips per **symbol** is calculated as 2SF. For … consumption is a well researched **area**. In the Wireless Sensor …

☆ Save 99 Cite Cited by 347 Related articles All 5 versions

Address space layout permutation (ASLP): Towards fine-grained randomization of commodity software

C Kil, J Jun, C Bookholt, J Xu… - … Applications Conference …, 2006 - ieeexplore.ieee.org

… • ASLP randomizes **regions** throughout the entire user … Our tool allows users to **choose** any values between 1 and 700K … own **symbol** name, we can get the virtual address of the **symbol** …

☆ Save 99 Cite Cited by 395 Related articles All 10 versions

Intermedia: The architecture and construction of an object-oriented hypemedia system and applications framework

N Meyrowitz - Conference proceedings on Object-oriented …, 1986 - dl.acm.org

… This is something that we have put on our research **agenda**, … **selection region**, blink the cursor, draw the **selection region**, … on an **icon** should cause a document to be **opened**. Similarly…

☆ Save 99 Cite Cited by 355 Related articles All 8 versions »

Spatial group choice: a SDSS tool for collaborative spatial decisionmaking

P Jankowski, TL Nyerges, A Smith… - International journal …, 1997 - Taylor & Francis

… strategies, and urban/**regional** development, are now … , we developed graduated **symbol**based symbolization schemes … orative work in a **conference** room **setting**. Spatial Group Choice, …

☆ Save 99 Cite Cited by 327 Related articles All 6 versions

Pick-and-drop: a direct manipulation technique for multiple computer environments

J Rekimoto - Proceedings of the 10th annual ACM symposium on …, 1997 - dl.acm.org

… if we could freely **pick** up printed **icons** on a paper document … , while other PDAs use wireless local **area** networks (LAN), We … X-Window inter-client communication **convention** (ICCCM). …

☆ Save 99 Cite Cited by 1028 Related articles All 10 versions

SPSS for Windows made simple

PR Kinnear, CD Gray - 1999 - books.google.com

… For example, in a rectangular **area** to the right of the main … on the **icon** to **open** the **program**, **file** or folder concerned. … key when **selecting** the **second** and subsequent **icons**. Each …

☆ Save 99 Cite Cited by 1416 Related articles All 5 versions »

The generic mapping tools version 6

P Wessel, JF Luis, L Uieda, R Scharroo… - Geochemistry …, 2019 - Wiley Online Library

… a special **file** name (identified by a leading **@-symbol**) which … a **region**, we can easily make a map with a **region** that suits … We implicitly **select** the geo color table which will be scaled …

☆ Save 99 Cite Cited by 1734 Related articles All 12 versions

Open source GIS: a GRASS GIS approach

M Neteler, H Mitasova - 2002 - books.google.com

… On the other hand, many complex problems related to urban and **regional** planning, … **selected** from the menus of the window manager or by clicking on an **icon** on your desktop. …

☆ Save 99 Cite Cited by 1610 Related articles All 19 versions »

UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/472,033	09/10/2021	Nick Swerdlow	ZOOM-164-C	1532

177453 7590 02/21/2024

Zoom Video Communications, Inc. at Young Basile
3001 West Big Beaver Rd., Ste. 624
Troy, MI 48084

EXAMINER	
PATEL, PARMANAND D	

ART UNIT	PAPER NUMBER
2143	

NOTIFICATION DATE	DELIVERY MODE
02/21/2024	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):

docketing@youngbasile.com

Zoom Communications, Inc. v. Ricoh Company, Ltd.
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Applicant-Initiated Interview Summary	**Application No.** 17/472,033	**Applicant(s)** Swerdlow, Nick		
	Examiner PARMANAND D PATEL	**Art Unit** 2143	**AIA (First Inventor to File) Status** Yes	**Page** 1 of 1

All Participants (applicant, applicants representative, PTO personnel)	**Title**	**Type**
PARMANAND D PATEL	Examiner	Telephonic
Neil Maskeri	Attorney	

Date of Interview: 14 February 2024

Issues Discussed:

Proposed Amendment(s)

Applicant presented proposed amendment to overcome prior arts on the record. Applicant explained that , client device (recipient) received a thumbnail for conference item and client without joining to the conference select thumbnail in first portion and once selecting thumbnail conference item open in second portion. It appears proposed amendment overcome prior arts on the record. Further search and consideration requires upon official response receive.

☑ Attachment

/PARMANAND D PATEL/ Examiner, Art Unit 2143	/JENNIFER N WELCH/ Supervisory Patent Examiner, Art Unit 2143

Applicant is reminded that a complete written statement as to the substance of the interview must be made of record in the application file. It is the applicants responsibility to provide the written statement, unless the interview was initiated by the Examiner and the Examiner has indicated that a written summary will be provided. See MPEP 713.04
Please further see:
MPEP 713.04
Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews, paragraph (b)
37 CFR § 1.2 Business to be transacted in writing

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 196 of 547

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Zoom Video Communications, Inc.
First Named Inventor:	Nick Swerdlow
Serial Number:	17/472,033
Filing Date:	September 10, 2021
Examiner/Art Unit:	Parmanand D. Patel / 2143 Conf. No.: 1532
Title:	Previewing Conference Items Prior to Joining a Conference

INTERVIEW AGENDA

Dear Examiner Patel:

The proposed agenda for the telephonic interview scheduled for February 14, 2024 at 11:00 AM ET is provided below.

1. Discussion of the example amendment provided below in view of the 35 U.S.C. § 103 rejection.

Example Amendment:

1. (Currently Amended) A method for previewing a conference in progress, comprising:

obtaining a conference item associated with the conference in progress;

prior to a client device connecting to the conference in progress:

transmitting, to the client device, a first graphical output for display on a panel interface associated with the conference in progress, the panel interface having a first portion and is expandable to display a second portion, the first portion including a thumbnail indicator of the conference item;

receiving, at a server, a request from the client device to view the conference item; and

transmitting, from the server, a second graphical output to the client device based on the request to display the conference item on the second portion of the panel interface

prior to the client device connecting to the conference in progress, wherein the second portion is an expanded portion of the panel interface to display the conference item.

Respectfully submitted,

YOUNG BASILE
HANLON & MACFARLANE, P.C.

/Neil C. Maskeri/

Neil C. Maskeri
Registration No. 61,591
T: (248) 649-3333
F: (248) 649-3338

3001 West Big Beaver Road, Ste. 624
Troy, Michigan 48084-3107

UNITED STATES
PATENT AND TRADEMARK OFFICE

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/472,033	**02/14/2024 04:34:51 PM Z ET**	**ZOOM-164-C**

Title of Invention

Previewing Conference Items Prior To Joining A Conference

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1532	FILED BY	Jessica Tumblin
PATENT CENTER #	64323675	FILING DATE	09/10/2021
CUSTOMER #	177453	FIRST NAMED INVENTOR	Nick Swerdlow
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Neil Maskeri

Documents

TOTAL DOCUMENTS: 3

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
ZOOM164C_Amd_20231120.pdf		10	-	41 KB
ZOOM164C_Amd_20231120-A....pdf	(1-1)	1	Amendment/Request for Reconsideration-After Non-Final Rejection	20 KB
ZOOM164C_Amd_20231120-CLM.pdf	(2-7)	6	Claims	28 KB
ZOOM164C_Amd_20231120-REM.pdf	(8-10)	3	Applicant Arguments/Remarks Made in an Amendment	23 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
ZOOM164C_Amd_20231120.pdf	DF87478A50C4077B48792CBB15B20DDB96D0781AC2CC0DF56EACB978C35E75FB77493F567C146BD272517C488F7C0E0EE67422BB6D0F5D388609F6D4A16E7327
ZOOM164C_Amd_20231120-A....pdf	7F8F0B199557FADF050F7935D1F24C6EA7E79E51E22E76C8D618D61F7519B1C0E2A315551CB417AED52CBDAE2EF42CC47377F7C101F6388946ABC4E2D61D36B7
ZOOM164C_Amd_20231120-CLM.pdf	978E93B951AA36543784CF6A799E67087E03028348963DE09AF95B5B02865BFF1419FD88EC1B8E23D61235FAC83E31CB08510775B348273B03B71D5658963286
ZOOM164C_Amd_20231120-REM.pdf	9908C76DF1EAA27C65B66A78531BF561743E20041703EC7EC7FAADF90DCA7049C5CB0789132BA48938DD4F5084D19B8E8E11DF58B84A5F2168B52450709FB82B

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Zoom Video Communications, Inc.
First Named Inventor:	Nick Swerdlow
Serial Number:	17/472,033
Filing Date:	September 10, 2021
Examiner/Art Unit:	Parmanand D. Patel / 2143 Conf. No.: 1532
Title:	Previewing Conference Items Prior to Joining a Conference

AMENDMENT

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

Commissioner:

In response to the Office Action dated November 20, 2023, please enter the remarks and amendments, if any, in the above-identified patent application as indicated below.

If any extensions of time are needed for timely acceptance of this reply and associated papers, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment from Deposit Account No. 25-0115. If any other fees must be paid in connection with this reply, Applicant authorizes payment from Deposit Account No. 25-0115.

☐ Amendments to the Abstract.

☐ Amendments to the Specification.

☒ Amendments to the Claim.

☐ Amendments to the Drawings.

Listing of the Claims:

1. (Currently Amended) A method for previewing a conference in progress, comprising:

obtaining a conference item associated with the conference ~~in progress~~;

prior to a client device connecting to the conference ~~in progress~~without joining the conference:

transmitting, to the client device, a first graphical output for display on a panel interface associated with the conference ~~in progress~~, the panel interface having a first portion and is expandable to display a second portion, the first portion including a~~n~~ thumbnail indicator of the conference item;

receiving, at a server, a request from the client device to view the conference item; and

transmitting, from the server, a second graphical output to the client device based on the request to display the conference item on the second portion of the panel interface prior to the client device connecting to the conference ~~in progress~~, wherein the second portion is an expanded portion of the panel interface to display the conference item.

2. (Original) The method of claim 1, wherein the conference item is an editable document.

3. (Previously Presented) The method of claim 1, wherein the conference item is an editable document, the method comprising:

transmitting a notification to participant client devices, wherein the notification indicates that the editable document has been modified.

4. (Original) The method of claim 1, wherein the conference item is at least one of an agenda, a real-time transcript, a downloadable file, or a real-time presentation.

5. (Currently Amended) The method of claim 1, comprising:

detecting an initiation of a screen share in the conference ~~in progress~~;

determining that a substantive portion of the conference ~~in progress~~ has started based on the screen share, the substantive portion of the conference ~~in progress~~ associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference ~~in progress~~ has started.

6. (Currently Amended) The method of claim 1, comprising:

detecting a voice in an audio portion of the conference ~~in progress~~;

converting the voice to text;

comparing the text to the conference item, wherein the conference item is an agenda;

determining that a substantive portion of the conference ~~in progress~~ has started based on the comparison, the substantive portion of the conference ~~in progress~~ associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference ~~in progress~~ has started.

7. (Currently Amended) The method of claim 1, wherein the display of the client device includes a panel interface associated with the conference ~~in progress~~, wherein the panel interface includes a first portion and a second portion.

8. (Currently Amended) The method of claim 1, wherein the display of the client device includes a panel interface associated with the conference ~~in progress~~, wherein the panel interface includes a first portion and a second portion, and wherein the first graphical output is displayed on the first portion of the panel interface and the second graphical output is displayed on the second portion of the panel interface.

9. (Currently Amended) A system for previewing a conference in progress, comprising:

a server configured to:

obtain a conference item associated with the conference ~~in progress~~; and

transmit a first graphical output based on the conference item prior to a client device connecting to the conference ~~in progress~~;

a client device configured to display the first graphical output on a panel interface associated with the conference prior to the client device connecting to the conference ~~in progress~~without joining the conference~~:~~, the panel interface having a first portion and expandable to display a second portion, the first portion including a~~n~~ thumbnail indicator of the conference item;

prior to the client device joining the conference ~~in progress~~, the server configured to:

receive a request from the client device to view the conference item; and

transmit a second graphical output to the client device based on the request; and

prior to the client device joining the conference ~~in progress~~, the client device configured to:

display the conference item on the second portion of the panel interface, wherein the second portion is an expanded portion of the panel interface.

10. (Currently Amended) The system of claim 9, wherein the server is configured to:

detect a voice in an audio portion of the conference ~~in progress~~;

convert the voice to text;

compare the text to the conference item, wherein the conference item is an agenda;

determine that a substantive portion of the conference ~~in progress~~ has started based on the comparison, the substantive portion of the conference ~~in progress~~ associated with an agenda item; and

transmit a notification to the client device that indicates that the substantive portion of the conference ~~in progress~~ has started.

11. (Currently Amended) The system of claim 9, wherein the server is configured to:

detect an initiation of a screen share in the conference ~~in progress~~;

determine that a substantive portion of the conference ~~in progress~~ has started based on the screen share, the substantive portion of the conference ~~in progress~~ associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference ~~in progress~~ has started.

12. (Currently Amended) The system of claim 9, wherein the thumbnail indicator is a visual indicator that is a graphical representation of the conference item.

13. (Currently Amended) The system of claim 9, wherein the thumbnail indicator is a visual indicator that is a graphical representation of the conference item, and wherein the visual indicator is at least one of an icon~~, a thumbnail,~~ or a text representation of the conference item.

14. (Original) The system of claim 9, wherein the conference item is an editable document, the server configured to:

transmit a notification to participant client devices, wherein the notification indicates that the editable document has been modified.

15. (Original) The system of claim 9, wherein the conference item is at least one of an agenda, a real-time transcript, a downloadable file, or a real-time presentation.

16. (Currently Amended) A non-transitory computer-readable storage device for previewing a conference in progress, the non-transitory computer-readable storage device including program instructions that, when executed by a processor, cause the processor to perform operations, the operations comprising:

obtaining a conference item associated with the conference ~~in progress~~;

prior to a client device connecting to the conference in progress without joining the conference in progress:

transmitting a first graphical output for display on a panel interface associated with the conference ~~in progress~~, the panel interface having a first portion and expandable to display a second portion, the first portion including a~~n~~ thumbnail indicator of the conference item;

receiving, at a server, a request from the client device to view the conference item; and

transmitting, from the server, a second graphical output to the client device to display the conference item on the second portion of the panel interface prior to the client

device connecting to the conference ~~in progress~~, wherein the second portion is an expanded portion of the panel interface to display the conference item.

17. (Currently Amended) The non-transitory computer-readable storage device of claim 16, wherein the program instructions, when executed by the processor, cause the processor to perform operations, the operations comprising:

detecting an initiation of a screen share in the conference ~~in progress~~;

determining that a substantive portion of the conference ~~in progress~~ has started based on the screen share, the substantive portion of the conference ~~in progress~~ associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference ~~in progress~~ has started.

18. (Currently Amended) The non-transitory computer-readable storage device of claim 16, wherein the program instructions, when executed by the processor, cause the processor to perform operations, the operations comprising:

detecting a voice in an audio portion of the conference ~~in progress~~;

converting the voice to text;

comparing the text to the conference item, wherein the conference item is an agenda;

determining that a substantive portion of the conference ~~in progress~~ has started based on the comparison, the substantive portion of the conference ~~in progress~~ associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference ~~in progress~~ has started.

19. (Currently Amended) The non-transitory computer-readable storage device of claim 16, wherein the thumbnail indicator is a visual indicator that is a graphical representation of the conference item.

20. (Currently Amended) The non-transitory computer-readable storage device of claim 19, wherein the thumbnail indicator is a visual indicator that is a graphical representation of the

conference item, and wherein the visual indicator is at least one of an icon~~, a thumbnail,~~ or a text representation of the conference item.

REMARKS

In response to the Office Action dated November 20, 2023, Applicant amends claims 1, 5-13, and 16-20. No new matter is added. After entry of this Amendment, claims 1-20 are pending in the Application. Reconsideration of the Application as amended is respectfully requested in view of these remarks.

Summary of Examiner Interview

Applicant thanks the Examiner for the telephone interview conducted on February 14, 2024. The attendees were Examiner Parmanand D. Patel and the Applicant's representative, Neil C. Maskeri (Registration No. 61,591). During the interview, a proposed amendment was discussed. An agreement was reached that the proposed amendment overcomes the cited references of record. The Examiner noted that further search and consideration is required.

Double Patenting

Claims 1, 9, and 16 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 9, and 16 of *copending* U.S. Patent Application Publication No. 17/472,023 in view of U.S. Patent Application Publication No. 2010/0037151.

The Applicant requests that the Examiner hold the nonstatutory obviousness-type double patenting rejection be held in abeyance until an agreement with respect to patentability of the claims is reached. The Applicant will file a terminal disclaimer at such time, if needed.

Rejections under 35 U.S.C. §103

Claims 1-2, 4, 7-9, 12-13, 15-16, and 19-20 are rejected under 35 U.S.C. § 103 as being unpatentable over U.S. Patent Application Publication No. 2016/0269504 to Johar et al. ("Johar") in view of U.S. Patent Application Publication No. 2010/0037151 to Ackerman et al. ("Ackerman").

Regarding claims 1, 9, and 16, an agreement was reached during the telephonic interview that the proposed amendment overcomes the cited references of record. Accordingly, the Applicant submits that claims 1, 9, and 16 are allowable for at least these reasons.

Claims 3 and 14 are rejected under 35 U.S.C. § 103 as being unpatentable Johar in view of Ackerman as applied to claims 1 and 9 above, and in further view of U.S. Patent Application Publication No. 2015/0281149 to Masterson et al. ("Masterson").

Regarding claims 3 and 14, Masterson fails to overcome the deficiencies of Johar and Ackerman. Accordingly, the Applicant submits that claims 3 and 14 are allowable over the cited references for at least the same reasons provided above.

Claims 5, 11, and 17 are rejected under 35 U.S.C. § 103 as being unpatentable over Johar in view of Ackerman as applied to claims 1 and 9 above, and in further view of U.S. Patent No. 11,245,735 to Kwatra et al. ("Kwatra").

Regarding claims 5, 11, and 17, Kwatra fails to overcome the deficiencies of Johar and Ackerman. Accordingly, the Applicant submits that claims 5, 11, and 17 are allowable over the cited references for at least the same reasons provided above.

Claims 6, 10, and 18 are rejected under 35 U.S.C. § 103 as being unpatentable over Johar in view of Ackerman as applied to claims 1 and 9 above, and in further view of Kwatra.

Regarding claims 6, 10, and 18, Kwatra fails to overcome the deficiencies of Johar and Ackerman. Accordingly, the Applicant submits that claims 6, 10, and 17 are allowable over the cited references for at least the same reasons provided above.

Claims 2-8 are dependent upon claim 1. Claims 10-15 are dependent upon claim 9. Claims 17-20 are dependent upon claim 16. Applicant accordingly requests that the rejection of claims 1-20 under 35 U.S.C. § 103 be reconsidered and withdrawn.

Conclusion

It is submitted that this Amendment has antecedent basis in the application as originally filed, including the specification, claims and drawings, and that this Amendment does not add any new subject matter to the application. It is submitted that this Amendment places the application in suitable condition for allowance, notice of which is requested.

The Examiner is invited to contact the undersigned at the telephone number listed below if the Examiner believes an Examiner's amendment would expedite prosecution of the Application.

Respectfully submitted,

YOUNG BASILE
HANLON & MACFARLANE, P.C.

/Neil C. Maskeri/

Neil C. Maskeri
Registration No. 61,591
T: (248) 649-3333
F: (248) 649-3338

3001 West Big Beaver Road, Ste. 624
Troy, Michigan 48084-3107

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 17/472,033	Filing Date 09/10/2021	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) 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), (i), 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 $100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $480 =	
☐ 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	02/14/2024	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $480 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(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".	/CAROL A BARNES/
*** 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.**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/472,033	09/10/2021	Nick Swerdlow	ZOOM-164-C	1532

177453 7590 11/20/2023

Zoom Video Communications, Inc. at Young Basile
3001 West Big Beaver Rd., Ste. 624
Troy, MI 48084

EXAMINER	
PATEL, PARMANAND D	

ART UNIT	PAPER NUMBER
2143	

NOTIFICATION DATE	DELIVERY MODE
11/20/2023	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):

docketing@youngbasile.com

Office Action Summary	Application No. 17/472,033	Applicant(s) Swerdlow, Nick	
	Examiner PARMANAND D PATEL	Art Unit 2143	AIA (FITF) Status Yes

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

Period for Reply

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

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

Status

1)☑ Responsive to communication(s) filed on 08/23/2023.

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

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

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

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1-20 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-20 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

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

Application Papers

10)☐ The specification is objected to by the Examiner.

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

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

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

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

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

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

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date 08/23/2023.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

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DETAILED ACTION

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

Continued Examination under 37 CFR 1.1114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 23, 2023 has been entered.

Response to Amendment

3. The Amendment filed on 08/23/2023 has been entered.

4. Claims 1, 9 and 16 are amended. Claims 1-20 are pending in the application.

Information Disclosure Statement

5. The information disclosure statement (IDS) submitted on 08/23/2023 in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Double Patenting

6. 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 claims at issue are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the reference application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO internet Web site contains terminal disclaimer forms which may be used. Please visit http://www.uspto.gov/forms/. The filing date of the application will determine what form should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all

requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to http://www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

7. Claims 1, 9, 16 are provisionally rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1, 9 and 16 of co-pending Application No.17/472,023 in view of Ackerman.

Exemplary instant independent claim 1 correlates to co-pending independent claim 1 as follows (similarly, instant independent claims 9 and 16 correlate to copending independent claims 9 and 16):

Current App. No 17/472,033	U.S. App. No. 17/472,023
1. Currently Amended) A method for reviewing a conference in progress, comprising: obtaining a conference item associated with the conference in progress; prior to a client device connecting to the conference in progress: **transmitting, to the client device, a first graphical output for display on a panel interface associated with the conference in progress, the panel interface having a first**	1. (Currently Amended) A method for displaying conference information, comprising: transmitting, to a client device, a first graphical output based on calendar data for display on a panel interface associated with a conference, wherein the panel interface has a first portion and

portion and a second portion, the first portion including an indicator of the conference item; receiving, at a server, a request from the client device to view the conference item; and transmitting, from the server, a second graphical output to the client device based on the request to display the conference item on the second portion of the panel interface prior to the client device connecting to the conference in progress.	is expandable to display a second portion, the first portion including an indicator that indicates a conference status associated with the conference; prior to the client device joining the conference: receiving a request for participant information of the conference; determining the participant information based on the request; and transmitting a second graphical output to the client device to display the participant information on the second portion of the panel interface.
9. Currently Amended) A system for previewing a conference in progress, comprising: a server configured to: obtain a conference item associated with the conference in progress; and transmit a first graphical output based on the conference item prior to a client device connecting to the conference in progress; a client device configured to display the first graphical output on a panel interface associated with the conference prior to the client device connecting to the conference in progress:,	9. (Currently Amended) A system for displaying conference information, comprising: a server configured to transmit a first graphical output based on calendar data; and a client device configured to display the first graphical output on a panel interface associated with a conference, wherein the panel interface has a first portion and is expandable to display a second portion, the first portion including an indicator that indicates a conference status associated with the conference;

the panel interface having a first portion and a second portion, the first portion including an indicator of the conference item; prior to the client device joining the conference in progress, the server configured to: receive a request from the client device to view the conference item; and	prior to the client device joining the conference, the server configured to: receive a request for participant information of the conference;
	determine the participant information based on the request; and
transmit a second graphical output to the client device based on the request; and prior to the client device joining the conference in progress, the client device configured to: display the conference item on the second portion of the panel interface.	transmit a second graphical output to the client device; and prior to the client device joining the conference, the client device configured to: display the participant information on the second portion of the panel interface.
16. (Currently Amended) A non-transitory computer-readable storage device <u>for previewing a conference in progress, the non-transitory computer-readable storage device</u> including program instructions that, when executed by a processor, cause the processor to perform operations, the operations comprising:	16. (Currently Amended) A non-transitory computer-readable storage device including program instructions that, when executed by a processor, cause the processor to perform operations, the operations comprising:
obtaining a conference item associated with the conference in progress;	

prior to a client device connecting to the conference in progress:	
transmitting a first graphical output for display on a panel interface associated with the conference in progress, the panel interface having a first portion and a second portion, the first portion including an indicator of the conference item;	transmitting, to a client device, a first graphical output based on calendar data for display on a panel interface associated with a conference, wherein the panel interface has a first portion and is expandable to display a second portion, the first portion including an indicator that indicates a conference status associated with the conference;
receiving, at a server, a request from the client device to view the conference item; and	prior to the client device joining the conference: receiving a request for participant information of the conference;
	determining the participant information based on the request; and

transmitting, from the server, a second graphical output to the client device to display the conference item on the second portion of the panel interface prior to the client device connecting to the conference in progress.	transmitting a second graphical output to the client device to display the participant information on the second portion of the panel interface.

However, co-pending claim 1 does not teach transmitting, to the client device, a first graphical output for display on a panel interface associated with the conference in progress, the panel interface having a first portion and a second portion, the first portion including an indicator of the conference item.

Ackerman teaches transmitting, to the client device, a first graphical output for display on a panel interface associated with the conference in progress, the panel interface having a first portion and a second portion, the first portion including an indicator of the conference item (as shown in figure 2, the system is configured to allow the presenter to release control of the slide presentation, which causes an instance of the slide presentation to be downloaded from the conference server to the attendee computer station; paragraph 143, also, as shown in figure 4, panel interface shows plurality of regions networking area 56 includes, participants list, text chat pane and attachment pane and content presentation area 62a-c; paragraph 139)

It would have been obvious to a person having ordinary skill in the art before the effective filing date of the claimed invention to have improved user interface for virtual conference meeting to have plurality of regions to display different conference item which Ackerman discloses as shown in figure 2 and figure 4. It would have been

motivated to provides an improved multi-media conferencing system to organized conference items in plurality of portions to view improved interface

Claims 9 and 16 of the instant application are system and non-transitory device claims are similar to the method claim 1 above and recite similar limitations as claims 1.

This is a provisional nonstatutory double patenting rejection.

Claim Rejections - 35 USC § 103

8. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

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

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

10. Claims 1, 2, 4, 7-9, 12-13, 15-16 and 19-20 are rejected under 35 U.S.C. 103 as being unpatentable over Johar et al. (US Pub 2016/0269504) hereinafter Johar in view of Ackerman et al. (US Pub 2010/0037151) hereinafter Ackerman.

Regarding claim 1, Johar teaches, A method for previewing a conference in progress (Johar; a user need not be logged in to the video call to see which of the others users is connected to the video call, who of the other users is not connected to the video call, and who of the users are present in the application (in progress meeting, user able to preview list of participants logged in and who haven't logged in); paragraph 43), comprising:

- obtaining a conference item associated with the conference in progress (Johar; as shown in figure 5A, interface 506 (user able to view who join to the meeting prior to joining) display upon generating the interface 504 (interface 506 as second portion as conference item about list of participants); paragraph 43);
- prior to a client device connecting to the conference in progress (Johar; as shown in figure 5C, virtual video meeting started and user wants to see list of participants without joining to the meeting; paragraph 50):
- receiving, at a server, a request from the client device to view the conference item (user interface button is operable to retrieve detailed information on each of the participants in the virtual meeting conversation (the user profiles to which the graphical identifiers correspond), further, upon receiving a selection at the button (receiving request) the device generates interface as illustrated in figure 5C, further, as shown in figure 5A, interface 506 (user able to view who join to the meeting) display upon generating the interface 504; paragraph 43);
- transmitting, from the server, a second graphical output to the client device based on the request to display the conference item on the second portion of the panel interface prior to the client device connecting to the conference in progress

(Johar; as shown in figure 5A, interface 506 (user able to view who join to the meeting prior to joining) display upon generating the interface 504 (interface 506 as second portion as conference item about list of participants); paragraph 43, further, as shown in figure 5C, virtual video meeting started and user wants to see list of participants without joining to the meeting; paragraph 50).

Johar do not teach expressly,

- **transmitting, to the client device, a first graphical output for display on a panel interface associated with the conference in progress, the panel interface having a first portion and a second portion, the first portion including an indicator of the conference item**

However Ackerman teaches

- transmitting, to the client device, a first graphical output for display on a panel interface associated with the conference in progress, the panel interface having a first portion and a second portion, the first portion including an indicator of the conference item (Ackerman; as shown in figure 2, the system is configured to allow the presenter to release control of the slide presentation, which causes an instance of the slide presentation to be downloaded from the conference server to the attendee computer station; paragraph 143, also, as shown in figure 4, panel interface shows plurality of regions networking area 56 includes, participants list, text chat pane and attachment pane and content presentation area 62a-c; paragraph 139).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Ackerman technique of server obtain the conference

content materials and sending to attendee's device to display at particular region to modify preview list of participants before joining to the virtual meeting of Johar. It would have been motivated to provides an improved multi-media conferencing system to organized conference items in plurality of portions to view improved interface.

Regarding claim 2, Johar and Ackerman teaches all of the claim 1. Ackerman further teaches,

- wherein the conference item is an editable document (Ackerman; presenter/host can modify the document in real time (document editable); paragraph 86).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Ackerman technique of server obtain the conference content materials and sending to attendee's device to display at particular region to modify preview list of participants before joining to the virtual meeting of Johar. It would have been motivated to provides an improved multi-media conferencing system to organized conference items in plurality of portions to view improved interface.

Regarding claim 4, Johar and Ackerman teaches all of the claim 1. Ackerman further teaches,

- wherein the conference item is at least one of an agenda, a real-time transcript, a downloadable file, or a real-time presentation (Ackerman; participants views the conference during real time includes audio/video, PowerPoint, document manipulation; paragraph 131).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Ackerman technique of server obtain the conference content materials and sending to attendee's device to display at particular region to modify preview list of participants before joining to the virtual meeting of Johar. It would have been motivated to provides an improved multi-media conferencing system to organized conference items in plurality of portions to view improved interface.

Regarding claim 7, Johar and Ackerman teaches all of the claim 1. Ackerman further teaches,

- wherein the display of the client device includes a panel interface associated with the conference in progress, wherein the panel interface includes a first portion and a second portion (Ackerman; as shown in figure 4, conference display shown two portions content sectors 62a-b and 62c-n where content displays and another area networking area 56 where participant list pane and other pane where user perform text chat communication and attachment (conference display having two panel interface); paragraphs 139-140).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Ackerman technique of server obtain the conference content materials and sending to attendee's device to display at particular region to modify preview list of participants before joining to the virtual meeting of Johar. It would have been motivated to provides an improved multi-media conferencing system to organized conference items in plurality of portions to view improved interface.

Regarding claim 8, Johar and Ackerman teaches all of the claim 1. Ackerman further teaches,

- wherein the display of the client device includes a panel interface associated with the conference in progress, wherein the panel interface includes a first portion and a second portion (Ackerman; as shown in figure 4, conference display shown two portions content sectors 62a-b and 62c-n where content displays and another area networking area 56 where participant list pane and other pane where user perform text chat communication and attachment (conference display having two panel interface); paragraphs 139-140), and wherein the first graphical output is displayed on the first portion of the panel interface and the second graphical output is displayed on the second portion of the panel interface (Ackerman; as shown in figure 4, conference display shown two portions content sectors 62a-b and 62c-n where content displays (first portion where content display) and another area networking area 56 where participant list pane and other pane where user perform text chat communication and attachment (as second portion where participants list, test chat and attachments pane display); paragraphs 139-140).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Ackerman technique of server obtain the conference content materials and sending to attendee's device to display at particular region to modify preview list of participants before joining to the virtual meeting of Johar. It would have been motivated to provides an improved multi-media conferencing system to organized conference items in plurality of portions to view improved interface.

Claims 9 is system claim that corresponding to method claim 1. Therefore, claim is rejected for the same reason as claim 1 above.

Regarding claim 12, Johar and Ackerman teaches all of the claim 9. Ackerman further teaches,

- wherein the indicator is a visual indicator that is a graphical representation of the conference item (Ackerman; as shown in figure 4, a panel 62b devoted to present slide presentation, spreadsheet by presenter (presentation document such as spreadsheet as conference item); paragraph 139).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Ackerman technique of server obtain the conference content materials and sending to attendee's device to display at particular region to modify preview list of participants before joining to the virtual meeting of Johar. It would have been motivated to provides an improved multi-media conferencing system to organized conference items in plurality of portions to view improved interface.

Regarding claim 13, Johar and Ackerman teaches all of the claim 9. Ackerman further teaches,

- wherein the indicator is a visual indicator that is a graphical representation of the conference item (Ackerman; as shown in figure 4, wherein, the presentation interface sector 62b where presenter's conference item displays as spreadsheet or slide presentation; paragraph 139), and wherein the visual indicator is at least

one of an icon, a thumbnail, or a text representation of the conference item (Ackerman; as shown in figure 4, a panel 62b devoted to present slide presentation, spreadsheet by presenter (presentation document such as spreadsheet as conference item); paragraph 139).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Ackerman technique of server obtain the conference content materials and sending to attendee's device to display at particular region to modify preview list of participants before joining to the virtual meeting of Johar. It would have been motivated to provides an improved multi-media conferencing system to organized conference items in plurality of portions to view improved interface.

Claim 15 is system claim that corresponding to method claim 4. Therefore, claim is rejected for the same reason as claim 4 above.

Claim 16 is a non-transitory computer-readable storage device claim that corresponding to method claim 1. Therefore, claim is rejected for the same reason as claim 1 above. In addition, Johar teaches, A non-transitory computer-readable storage device (Johar; fig. 10; memory 86) including program instructions that, when executed by a processor (Johar; fig. 10; processor 84), cause the processor to perform operations, the operations comprising:

Claims 19-20: they are non-transitory computer-readable storage device claim that corresponding to method claims 12-13. Therefore, they are rejected for the same reason as claims 12-13 above.

11. Claims 3 and 14 are rejected under 35 U.S.C. 103 as being unpatentable over Johar et al. (US Pub 2016/0269504) hereinafter Johar in view of Ackerman et al. (US Pub 2010/0037151) hereinafter Ackerman as applied to claims 1 and 9 above, and further in view of Masterson et al. (US Pub 2015/0281149) hereinafter Masterson.

Regarding claim 3, Johar and Ackerman teaches all of the claim 1. Johar and Ackerman do not teach expressly,

- transmitting a notification to participant client devices, wherein the notification indicates that the editable document has been modified

However, Masterson teaches,

- transmitting a notification to participant client devices, wherein the notification indicates that the editable document has been modified (Masterson; edited content sent to the user via communication method such as electronic communication message (e.g., electronic mail, text message, instant message, chat message, videoconference message, and the like) and receiving user select attached content item (edited content) and view or read content item; paragraph 18)

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Masterson technique of sending edited content item using test message or email to modify preview list of participants before joining to the virtual meeting, and server obtain the conference content materials and sending to attendee's device to display at particular region of Johar and Ackerman. It would have been motivated to make such combination to efficiently and quickly transmitted content to other user to improve communication.

Claim 14 is system claim that corresponding to method claim 3. Therefore, claim is rejected for the same reason as claim 3 above.

12. Claims 5, 11 and 17 are rejected under 35 U.S.C. 103 as being unpatentable over Johar et al. (US Pub 2016/0269504) hereinafter Johar in view of Ackerman et al. (US Pub 2010/0037151) hereinafter Ackerman as applied to claims 1 and 9 above, and further in view of Kwatra et al. (US Pat, 11,245,735) hereinafter Kwatra.

Regarding claim 5, Johar and Ackerman teaches all of the claim 1. Johar and Ackerman do not teach expressly,

- detecting an initiation of a screen share in the conference in progress;

- determining that a substantive portion of the conference in progress has started based on the screen share, the substantive portion of the conference in progress associated with an agenda item; and
- transmitting a notification to the client device that indicates that the substantive portion of the conference in progress has started

However, Kwatra teaches,

- detecting an initiation of a screen share in the conference in progress (Kwatra; during a collaboration screen-sharing, client device initiate a screen-sharing session; col 3 line 39-45);
- determining that a substantive portion of the conference in progress has started based on the screen share, the substantive portion of the conference in progress associated with an agenda item (Kwatra; agenda share by the presenter user to other participant; col 5 line 28-33); and
- transmitting a notification to the client device that indicates that the substantive portion of the conference in progress has started (Kwatra; presenter initiate the screen sharing session and presenter shares display 118A with multiple users which allows multiple users to view various content in their respective devices; col 3 line 39-51)

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Kwatra technique of screen-sharing content with multiple participant devices to modify preview list of participants before joining to the virtual meeting, and server obtain the conference content materials and sending to attendee's device to display at particular region of Johar and Ackerman. It would have been

motivated to make such combination to enable user to quickly and efficiently communicate with multiple participant users via screen sharing during collaboration session.

Claims 11 is system claim that corresponding to method claim 5. Therefore, claim is rejected for the same reason as claim 5 above.

Claims 17 is non-transitory computer-readable storage device claim that corresponding to method claim 5. Therefore, claim is rejected for the same reason as claim 5 above.

13. Claims 6, 10 and 18 are rejected under 35 U.S.C. 103 as being unpatentable over Johar et al. (US Pub 2016/0269504) hereinafter Johar in view of Ackerman et al. (US Pub 2010/0037151) hereinafter Ackerman as applied to claims 1 and 9 above, and further in view of Kwatra et al. (US Pat, 11,245,735) hereinafter Kwatra.

Regarding claim 6, Johar and Ackerman teaches all of the claim 1. Johar and Ackerman do not teach expressly,

- detecting a voice in an audio portion of the conference in progress;
- converting the voice to text;
- comparing the text to the conference item, wherein the conference item is an agenda;

- determining that a substantive portion of the conference in progress has started based on the comparison, the substantive portion of the conference in progress associated with an agenda item; and
- transmitting a notification to the client device that indicates that the substantive portion of the conference in progress has started

However, Decrop teaches,

- detecting a voice in an audio portion of the conference in progress (Decrop; speakers verbal speech output analyzed; col 7 line 42-47, further, in virtual meeting, a virtual meeting software, capture the audio of the speaker for speech-to-text conversion for later analysis; col 5 line 19-22);
- converting the voice to text (Decrop; convert speech-to-text of speaker speech; col 7 line 42-50);
- comparing the text to the conference item, wherein the conference item is an agenda (Decrop; the output speech-to-text text compared with common topics identified based on semantic similarity between the topics of the speaker and common topics; col 7 46-49);
- determining that a substantive portion of the conference in progress has started based on the comparison, the substantive portion of the conference in progress associated with an agenda item (Decrop; the output speech-to-text text compared with common topics identified based on semantic similarity between the topics of the speaker and common topics (speaker's topic equating as meeting agenda); col 7 line 46-49); and

- transmitting a notification to the client device that indicates that the substantive portion of the conference in progress has started (Decrop; the speaker's verbal communication during the meeting may be analyzed to have topics identified this correlate that video conference started; col 7 line 45-61).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Kwatra technique of Decrop technique of convert speaker speech-to text and compare topics to modify preview list of participants before joining to the virtual meeting, and server obtain the conference content materials and sending to attendee's device to display at particular region of Johar and Ackerman. It would have been motivated to make such combination to enable user to analyze accurately what the speaker says during the presentation by converting speech-to-text.

Claims 10 is system claim that corresponding to method claim 6. Therefore, claim is rejected for the same reason as claim 6 above.

Claims 18 is non-transitory computer-readable storage device claim that corresponding to method claim 5. Therefore, claim is rejected for the same reason as claim 5 above.

Response to Arguments

14. In the remarks on pages 8-9, that Ackerman, fails to disclose or suggest at least "prior to the client device joining the conference in progress:" as claimed. Applicant's argument have been considered, but are moot in view of new ground of rejection.

15. Applicant remarks on pages 8-9, that Ackerman, fail to disclose or suggest at least " transmitting, to the client device, a first graphical output for display on a panel interface associated with the conference in progress, the panel interface having a first portion and a second portion, the first portion including an indicator of the conference item," as claim 1.

16. Examiner respectfully disagrees with Applicant because:

First, Examiner would like to point out that the rejection for claim 1 only based on the combination of Ackerman and Shadfar (see rejection above and rejection mailed 06/09/2023).

Second, Ackerman does disclosed as shown in figure 4 wherein, interface shows plurality of regions where each regions 62a-62c displays participants list, text chat pane and attachment pane and content presentation display 62a-62d are as first portions and list of participant regions (as 68a) as second portion. (see paragraph 139).

Therefore, the combination of Ackerman and Shadfar teaches the claimed limitations as required in claims 1, 9 and 16.

Conclusion

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

Qin Chuan (CN 1157053 A) teaches first interface receive first file and second interface comprises a preview interface of the first file ([abstract]).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PARMANAND D Patel whose telephone number is (571)270-7283. The examiner can normally be reached Monday - Friday, 8:30AM-5PM EST.

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, Jennifer Welch can be reached on (571) 272-7212. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/PARMANAND D PATEL/
Examiner, Art Unit 2143

/JENNIFER N WELCH/
Supervisory Patent Examiner, Art Unit 2143

Notice of References Cited	Application/Control No. 17/472,033	Applicant(s)/Patent Under Reexamination Swerdlow, Nick	
	Examiner PARMANAND D PATEL	Art Unit 2143	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20160269504-A1	09-2016	Johar; Sahiba Singh	H04L67/141	1/1
	B					
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N	CN-115705315-A	02-2023	CN	QIN C	
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

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

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/472,033	Swerdlow, Nick
	Examiner	Art Unit
	PARMANAND D PATEL	2143

CPC - Searched*		
Symbol	**Date**	**Examiner**
H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166	11/17/2022	PP
H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166	06/01/2023	PP
H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166	11/03/2023	PP

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

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/PARMANAND D PATEL/ Examiner, Art Unit 2143	

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IPR2026-00407 | EX2009 | Page 239 of 547

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/472,033	Swerdlow, Nick
	Examiner	Art Unit
	PARMANAND D PATEL	2143

Search Notes		
Search Notes	**Date**	**Examiner**
PE2E search including limited text search combine with CPC symbols using East databases (USPGPUB; USPAT; FPRS; USOCR; EPO; JPO)	11/17/2022	PP
Use PE2E SEARCH and PALM to search inventors and assignee	11/17/2022	PP
Use google scholar to search prior arts	11/17/2022	PP
PE2E search including limited text search combine with CPC symbols using PE2E databases (USPGPUB; USPAT; FPRS; USOCR; EPO; JPO)	05/31/2023	PP
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Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**

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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/472,033	Swerdlow, Nick
	Examiner	Art Unit
	PARMANAND D PATEL	2143

✓	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	11/18/2022	06/01/2023	11/03/2023						
	1	✓	✓	✓						
	2	✓	✓	✓						
	3	✓	✓	✓						
	4	✓	✓	✓						
	5	✓	✓	✓						
	6	✓	✓	✓						
	7	✓	✓	✓						
	8	✓	✓	✓						
	9	✓	✓	✓						
	10	✓	✓	✓						
	11	✓	✓	✓						
	12	✓	✓	✓						
	13	✓	✓	✓						
	14	✓	✓	✓						
	15	✓	✓	✓						
	16	✓	✓	✓						
	17	✓	✓	✓						
	18	✓	✓	✓						
	19	✓	✓	✓						
	20	✓	✓	✓						

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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-22)
Approved for use through 05/31/2024. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17472033
Filing Date	2021-09-10
First Named Inventor	Nick Swerdlow
Art Unit	2143
Examiner Name	P. D. Patel
Attorney Docket Number	ZOOM-164-C

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8437461		2013-05-07	Gartner et al.	
	2	9146115		2015-09-29	Geffner et al.	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20190392395	A1	2019-12-26	Valliani, Jamil Amirali	
	2	20100198646	A1	2010-08-05	Mikan et al.	
	3	20100274855	A1	2010-10-28	Wassingbo, Tomas Karl-Axel	
	4	20120185534	A1	2012-07-19	ZIMMET et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Filing Date	2021-09-10
First Named Inventor	Nick Swerdlow
Art Unit	2143
Examiner Name	P. D. Patel
Attorney Docket Number	ZOOM-164-C

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
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Examiner Signature	/PARMANAND D PATEL/	Date Considered	11/03/2023

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

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Filing Date	2021-09-10
First Named Inventor	Nick Swerdlow
Art Unit	2143
Examiner Name	P. D. Patel
Attorney Docket Number	ZOOM-164-C

CERTIFICATION STATEMENT

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

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

OR

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See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

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SIGNATURE

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

Signature	/Neil C. Maskeri/	Date (YYYY-MM-DD)	2023-08-23
Name/Print	Neil C. Maskeri	Registration Number	61,591

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8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

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Method For Managing File, Electronic Device And Computer Readable Storage Medium

DOCUMENT ID	DATE PUBLISHED
CN 115705315 A	2023-02-17

INVENTOR INFORMATION

NAME	CITY	STATE	ZIP CODE	COUNTRY
QIN, CHUAN	N/A	N/A	N/A	N/A

DATE FILED

2021-08-12

CPC CURRENT

TYPE	CPC	DATE
CPCI	G 06 F 16/172	2019-01-01
CPCI	G 06 F 16/16	2019-01-01
CPCI	G 06 F 16/13	2019-01-01
CPCI	G 06 F 3/0481	2013-01-01

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Abstract

The application relates to the electronic technical field, claims a method for managing file, electronic device and a computer-readable storage medium, the method comprises: displaying the first interface, the first interface comprises a received first file; receiving a first operation for a first file by a user; when the first file is downloaded, displaying the second interface, the second interface comprises a preview interface of the first file and the first banner notification, the first banner notification comprises a first control; in response to the second operation performed by the user for the first control, storing the first file to the catalog file, displaying the third interface, the third interface is the interface of the file management application APP, responding to the third operation of the target file by the user, displaying the first file. The above method is convenient for the user to search the received file, and improves the user experience.

Description

INVENTION-TITLE

Technical field

The application relates to the electronic technical field, specifically relates to a method for managing file, an electronic device and a computer readable storage medium.

Background

Usually, people through different APP to transfer information, such as using chat APP, mail APP and other three-party APP to send document, audio, video, picture, installation package and so on.

in the traditional Android system, the terminal device is used for storing the received file path is complex and astringent, and different APP received by the file storage path is not the same. Usually, if the user wants to find the file received from the chat APP name is " document 1 ", it needs to know the storage path of the chat APP default file in Android system, then operating the terminal device, and entering the file management APP and performing multi-level search according to the default storage path of the chat APP in the Android system.

If it is a common user, and does not know the Android storage path, it is difficult to find the needed file, resulting in difficult searching file, user experience is not high.

Contents of the Invention

The application claims a method for managing file, device, electronic device, chip, computer readable storage medium and computer program product, which is convenient for user to search file, improving the user experience.

In the first aspect, there is provided a method for managing a file, comprising: displaying a first interface, the first interface comprises a received first file; receiving the first operation of the first file by the user, the first operation is used for downloading the first file; when the first file is downloaded, displaying the second interface, the second interface comprises a preview interface of the first file and a first banner notification, the first banner notification comprises a first control; in response to the second operation performed by the user for the first control, storing the first file to the catalog folder, the target folder is a folder with self-defined authority, the target folder is different from the system folder; displaying a third interface, the third interface is the interface of the file management application program APP, the third interface comprises the target folder and the system folder; responding to the third operation of the target folder by the user, displaying the first file.

the first operation can be the click operation of the first file, the terminal device can download the first file based on the click operation of the user in the chat interface; the first operation also can be the user clicking the menu of the first file and clicking the operation of storing key in the menu, the terminal device downloads the first file based on the operation of storing the first file manually executed by the user; The first operation may also be the operation of the user clicking the link of the first file in the browser, the terminal device triggers and stores the first file based on the link trigger of the user clicking the first file. The first control can be "copied to", "another memory", "moving to" and so on to perform a separate storage of the first file. The second operation can be clicking the operation of the first control or double clicking the first control to confirm the operation of the selected first control. the system folder is three-party APP default file storage catalog the terminal device through the three-party APP received file can be stored to the system folder catalog to the default path, the default path of the three-party APP is complex and astringent, difficult to be mastered by the common user. and the target folder is different from the system folder, the target folder and the system folder are displayed on the interface of the file management APP, the user clamps the user-defined authority of the target file, for example, the user can be operated under the target folder to establish the folder, deleting the folder, renaming folder and so on, further can establish multi-level sub-catalog according to need. The target folder may be named "My Folder" or "My File" and so on. the user can store the first file in the self-defined path in the target folder, when the user opens the interface of the file management APP, searching the desired file according to the self-defined path in the target folder, the method does not need the user to grasp the complex default path, namely can realize the searching of the file, making the searching of the file more convenient and fast, improving the user experience.

Optionally, the method further comprises: receiving the fourth operation of the user for the second file, the fourth operation is used for downloading the second file, the second file and the first file are different; when the second file is downloaded, displaying a fourth interface, the fourth interface comprises a preview interface of the second file and a second banner notification; and storing the second file to the system file according to the default path.

the fourth operation can be the single click operation of the second file, the terminal device downloads the second file based on the click operation of the user; the second operation also can be the user

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clicking the menu of the second file and clicking the operation of storing the key in the menu, the terminal device downloads the second file based on the operation of storing the second file manually executed by the user. If the user does not notify the second banner of any operation, then the second file can be stored to the system folder according to the default storage path, and not stored in the target folder. the second file is any one of document, picture, video, audio, installation package and compression package.

Optionally, the first banner notification further comprises a second control, the method further comprises: in response to the fifth operation performed by the user for the second control, displaying a fifth interface, the fifth interface comprises a preview interface and a sharing window of the first file, the sharing window comprises a plurality of sharing object icon, the plurality of sharing object icon comprises an icon of the target object; in response to the sixth operation performed by the user for the icon of the target object, displaying the operation interface of the target object; in response to a seventh operation performed by the user for the operation interface of the target object, sending the first file to the target object.

the second control is a key starting sharing function, such as " sharing " key. selecting the second control when the user performs the fifth operation of clicking or double-clicking for the second control, the terminal device pulls the sharing service, the screen displays the fifth interface including the sharing window, it also can display the preview interface of the first file at the lower layer of the sharing window. the sharing window can include a plurality of icons of sharing object, such as icon of chat APP, icon of conference APP, icon of mail APP, icon of short message APP, icon of browser APP, icon of mobile phone or flat computer, printer icon, icon of large screen device (television, intelligent screen), icon of desktop computer, Bluetooth icon, Wi-Fi icon and so on. the user can perform the sixth operation of clicking or double-clicking the corresponding icon, selecting one sharing object as the target object, then the terminal device opens the operation interface of the target object, the user executes the seventh operation on the operation interface, sharing the first file. The seventh operation is different according to the difference of the selected target object. when the target object is chat APP, the seventh operation is based on the chat interface to the appointed object sending file operation; when the target object is the mail APP, the seventh operation is based on operation of sending mail executed by the mail sending interface; when the target object is the conference APP, the seventh operation is the operation of displaying the preview interface of the first file at the conference interface and sharing the desktop or sharing the preview interface to the participant; when the target object is a printer, the seventh operation is the operation interface of the printer executing the printing operation; when the target object is the browser APP, the seventh operation is the operation of viewing at the interface of the browser or uploading the first file to the server. the terminal device pulls the sharing window through the second control of the user operating the first banner notification, and sharing the first file to the target object selected by the user, realizing the sharing of the resource, enriching the function of the terminal. compared with the process of actively searching the first file and sharing by the user, in the embodiment, the second control of the first banner notification directly pulls the sharing window so as to share the file, the operation is more convenient and fast, the efficiency of resource sharing is improved, and the user experience is improved.

Optionally, the target object is a target APP, the terminal device can share the first file to APP such that resource sharing mode is more abundant and various.

Optionally, the target object is a target device, the terminal device capable of sharing the first file to other devices so that the resource sharing mode is more abundant and various.

Optionally, the response to the second operation performed by the user for the first control, the first file stored to the catalog folder, comprising: in response to the second operation performed by the user for the first control, displaying a sixth interface, the sixth interface comprises a root directory interface and a first prompting frame of the target folder, the first prompting frame comprises a third control; in response to the eighth operation performed by the user for the third control, storing the first file under the root directory of the target folder.

when the user performs a single-click or double-click second operation for the first control, then the terminal device jumps to the sixth interface including the root directory interface of the target folder and the first prompt frame. The first prompting frame is used for inquiring whether the user stores the first file in the target file. the first prompting frame may include a third control, the third control may be a confirmation key, such as ", ", also can be displayed as " confirmation " such key. when the user performs the eighth operation of clicking or double-clicking the third control, the terminal device stores the first file under the root directory of the target folder. Optionally, the first prompting frame may further include newly-established key of the newly-added file, if the user clicks the newly-established key, then generating a new folder in the root directory of the target folder. Optionally, the first prompting frame further comprises a cancel key, such as " * ", user click cancel key can cancel the operation of the other file. Optionally, cancelling the operation of the other file, the terminal device can display the root directory interface of the target folder. The method based on user operation realizes storing the first file to the user-selected self-defined path, convenient for user to search file, improving the user experience.

Optionally, the method further comprises: responding to the ninth operation performed by the user at the sixth interface for the first folder, displaying a seventh interface, the seventh interface comprises a root directory interface and a second prompting frame of the target folder, the second prompting frame comprises a fourth control, the first folder is the folder of the root directory of the target folder ; in response to the tenth operation performed by the user for the fourth control, storing the first file under the catalog folder.

The first file folder is the file folder under the root directory of the target file folder. If the user needs to store the first file to the first folder, the ninth operation of clicking or double-clicking the first folder can be performed, and the first folder is selected, and the seventh interface containing the second prompting frame can be displayed on the screen. The second prompting frame is used for inquiring whether the user stores the first file in the first file folder. the first prompting frame may include a fourth control, the fourth control may be a confirmation key, such as ", ", also can be displayed as " confirmation " such key. when the user performs the tenth operation of clicking or double-clicking the fourth control, the terminal device stores the first file in the root directory of the first folder. Optionally, the second prompt frame may further include a newly-established key of the newly-added file, if the user clicks the newly-established key, then generating a new folder in the root directory of the first folder. Optionally, the second prompt box further comprises a cancel key, such as " * ", user click cancel key can cancel the operation of the other file. Optionally, cancelling the operation of the other file, the terminal device can display the root directory interface of the target folder or the root directory interface of the first folder. The method based on user operation realizes storing the first file to the user-selected self-defined path, convenient for user to search file, improving the user experience.

Optionally, the method further comprises: responding to the eleventh operation performed by the user, displaying the eighth interface, the eighth interface comprises a first notification message of the first file; in response to the twelfth operation performed by the user for the menu key of the first notification message, displaying the first control and the second control of the first notification message, the second control is a control for pulling the sharing window, the sharing window comprises a plurality of icons of the sharing object.

when the user executes the eleventh operation of the single finger pull-down or double finger pull-down on the screen to open the pull-down notification column, the terminal device displays the eighth interface comprising the first notification message, the first notification message is used for characterizing the terminal device to receive the first file. when the user executes the twelfth operation of clicking the menu key of the first notification message, the card of the first notification message displays the first control and the second control, the user can click the first space to store the first file to the target folder, also clicking the second control to share the first file to the target object. The method operates the notification message of the received file in the pull-down notification column, without searching the complex file storage path by the user to realize the other storage and sharing of the file, the operation mode is simple and fast.

Optionally, the method further comprises: responding to the twelfth operation performed by the user for the first banner notification, displaying the ninth interface, the ninth interface is the interface of the file management APP, the ninth interface comprises the card of the first file; responding to the thirteenth operation executed by the user of the menu key of the card of the first file, displaying the first control and the second control, the second control is a control for pulling the sharing window, the sharing window comprises an icon of a plurality of sharing objects.

when the user executes the twelfth operation of clicking the message main body of the first banner notification, namely clicking the area except the first control and the second control in the first banner notification, the terminal device jumps to the interface of the file management APP, for example, the latest label page of the display file management APP, and a card for displaying the recently accessed file, wherein the card comprises a first file that has just been accessed. the user clicks the thirteenth operation of clicking the menu key according to the card of the first file, then the card of the first file displays the first control and the second control. The user can click the first control to store the first file to the target folder, and clicking the second control to share the first file to the target object. The method enters the interface of file management APP by clicking the message main body of banner notification, and operates the card of the file received in the interface of the file management APP, it can realize the other storage and sharing of the file without searching the complex file storage path by the user, the operation mode is simple and fast.

Optionally, the first file is a document, a picture, video, audio, installation package and a compression package in the any one kind of.

Optionally, the first interface is a chat interface.

Optionally, the first interface is an electronic mailbox of the inbox interface.

Optionally, the first interface comprises a download link of the web page interface.

the user can store the file received by different APP according to the appointed path, which is convenient for the user to concentrate the file received by different APP, orderly storing and managing, which is convenient for the user to find the file of different sources, and improves the user experience.

Optionally, the first banner notification display is more striking on the screen top part and does not affect the interface of the user viewing the screen middle area, user experience is better.

Optionally, the first banner notification may also be displayed on the screen side or bottom.

Optionally, the method further comprises: the system service reads the switch of the file management service; if the switch of the file management service is in the state of turn on, the system service regularly accesses the server corresponding to the three-party APP to obtain the default storage path of the first file, the default storage path is the path of the system folder catalog monitoring whether the first file is generated in the default storage path by the system service; if so, the system service sends file update message to the file manager; in response to the file update message, the file manager sends the first banner notification to the system user interface UI; the system user interface (user interface, UI) displays the first banner notification, the first banner notification comprises a sharing key and a copying key; in response to the click operation of the user for the sharing key, the file manager stores the first file under the catalog folder, the target folder is a folder with self-defined authority, the target folder is different from the system folder; responding to the click operation performed by the user for the sharing key, the system UI displays the sharing window, the sharing window comprises an icon of a plurality of sharing objects, the icon of the plurality of sharing objects comprises an icon of the target object; responding to the click operation performed by the user for the icon of the target object, the display module displays the operation interface of the target object; responding to the sharing operation performed by the user for the operation interface of the target object, the file manager sends the first file to the target object; the display module displays the interface of the file management APP, the interface of the file management APP comprises the target folder and the system folder; in response to the selection operation of the user for the target folder, the display module displays the first file.

a second aspect, providing a device for managing file, comprising a unit composed of software and/or hardware, the unit is used for executing the first aspect of the technical solution in any one of the method.

In a third aspect, there is provided an electronic device, the electronic device comprises: processor, memory and interface; processor, memory and interface are matched with each other, so that the electronic device executes the first aspect of the technical solution in any one of the method.

In a fourth aspect, the application embodiment provides a chip, comprising a processor; The processor is used for reading and executing the computer program stored in the memory, so as to execute any one of the method in the technical solution of the first aspect.

Optionally, the chip further comprises a memory, the memory is connected with the processor through circuit or wire.

Further optionally, the chip further comprises a communication interface.

a fifth aspect, providing a computer-readable storage medium, the computer-readable storage medium is stored with a computer program, when the computer program is executed by a processor, such that the processor executes the first aspect of the technical solution in any one of the method.

a sixth aspect, providing a computer program product, the computer program product comprises: computer program code, when the computer program code is run on the electronic device, so that the electronic device executes the first aspect of the technical solution in any one of the method.

Description of pictures

FIG. 1 is a structure schematic diagram of an example terminal device 100 provided by the embodiment of the application;

FIG. 2 is a software structure block diagram the terminal device 100 provided by the embodiment of the present application;

FIG. 3 is an interface schematic diagram of an example file management APP provided by the embodiment of the application;

FIG. 4 is an interface schematic diagram of an example file management APP provided by the embodiment of the application;

FIG. 5 is an example of the embodiment of the application embodiment of the newly added file management APP of the file management diagram of APP;

FIG. 6 is an embodiment of the application embodiment provides an example terminal device generates banner notification interface change diagram;

FIG. 7 is a schematic diagram of interface variation of a terminal device generating banner notification provided by the embodiment of the application;

FIG. 8 is a schematic diagram of an interface change during another file process of an example terminal device provided by the embodiment of the present application;

FIG. 9 is a schematic diagram illustrating an interface variation of a new folder process in a "My Folder" provided by the embodiment of the present application;

FIG. 10 is a schematic diagram of interface change of the process of a terminal device in the "My Folder" provided by the embodiment of the application embodiment of the moving file catalog the "My Folder";

FIG. 11 is a schematic diagram of an interface variation of a terminal device sharing file based on user operation provided by the embodiment of the application;

FIG. 12 is an embodiment of the application embodiment provides an example terminal device based on user operation pop-up interface change diagram of the process of the banner notification;

FIG. 13 is a schematic diagram of interface variation of the process of sharing files based on user operation by an example terminal device provided by the embodiment of the application;

FIG. 14 is an interface schematic diagram of a display file manager card provided by the embodiment of the present application;

FIG. 15 is a terminal device provided by the embodiment of the embodiment application on user operation jump to file management APP interface change diagram;

FIG. 16 is an embodiment of the application embodiment provides an example terminal device in the pull-down notification column display file management APP of the card interface diagram;

FIG. 17 is an example terminal device provided by application embodiment of the interface schematic diagram of the card in the operation notification column file management APP;

FIG. 18 is an example terminal device provided by application embodiment of the terminal device in the operation notification column file management APP of the card interface diagram;

FIG. 19 is a diagram of a software architecture provided by the embodiment of the present application;

FIG. 20 is an interactive schematic diagram of the flow of a management file provided by the embodiment of the present application;

FIG. 21 is a flow diagram of a method for managing files provided by the embodiment of the present application;

FIG. 22 is a schematic structural diagram of an apparatus for managing files provided by the embodiment of the present application.

Specific implementation examples

The following will be combined with the drawings in the embodiment of the application invention, the technical solution of the application embodiment is described. wherein, in the description of the application embodiment, unless otherwise specified, "/" represents or meaning, for example, A/B may represent A or B; "and/or" herein is only a description of the associated relationship of the associated object, represents that there are three kinds of relationship, for example, A and/or B, can be represented: A is independently present, and A and B are present at the same time, and there are three cases of B alone. In addition, in the description of the application embodiment, " a plurality of " refers to two or more than two.

The terms "first", "second", "third", "thirteenth" are used only for the purpose of description, and cannot be understood as indicating or implying the relative importance or implicitly indicating the number of technical features indicated. Thus, defining a " first ", " second ", " third " ... " thirteenth " characteristic can be displayed or implicitly comprises one or more of the features.

The method for managing file provided by the embodiment application the invention can be applied to the mobile phone, tablet computer, wearable device, vehicle-mounted device, augmented reality (AR) /virtual reality (virtual machine, VR) device, notebook computer, a super mobile personal computer (UMPC), a netbook, personal digital assistant (PDA) and other terminal device, the specific type of the terminal device is not limited by the embodiment of the application.

FIG. 1 is a structure schematic diagram of an example terminal device 100 provided by the embodiment of the application. the terminal device 100 may include a processor 110, an external memory interface 120, an internal memory 121, a universal serial bus (salserial bus, USB) interface 130, a charging management module 140, a power supply management module 141, a battery 142. antenna 1, antenna 2, mobile communication module 150, wireless communication module 160, audio module 170, speaker 170A, receiver 170B, microphone 170C, earphone interface 170D, sensor module 180, key 190, motor 191, indicator 192. The user identification module (SIM) card interface 195 and the display screen 194 are connected to the user identification module (SIM) card interface 195. wherein the sensor module 180 can include a pressure sensor 180A, a gyroscope sensor 180B, an air pressure sensor 180C, a magnetic sensor 180D, an acceleration sensor 180E, a distance sensor 180F, a proximity light sensor 180G, a fingerprint sensor 180H temperature sensor 180J, touch sensor 180K, ambient light sensor 180L, bone conduction sensor 180M

It can be understood that the structure shown in the embodiment of the application embodiment does not form the specific limit of the terminal device 100. In other embodiments of the present application, the terminal device 100 may include more or less components than the graphical representation, or a combination of certain components, or splitting certain components, or different component arrangement. The illustrated components may be implemented in hardware, software or a combination of software and hardware.

The processor 110 may include one or more processing units, for example, a processor 110, a processor 110, and a processor 110. Processor 110 may include an application processor (application processor, AP), a modulation demodulation processor, a graphics processor (graphics processor unit, GPU), an image signal processor (a signal processor, an ISP), a controller, a memory, a video codec, digital signal processor digital signal processor, a digital signal processor (DSP), baseband processor, and/or neural network processor (neural-network processing unit, NPU) and so on. Wherein, different processing units can be independent devices, also can be integrated in one or more processors.

wherein the controller can be the terminal device 100 of the nerve center and command center. the controller can according to the instruction operation code and the time sequence signal, generating operation control signal, finishing the instruction and control of the execution instruction.

The processor 110 may also be provided with a memory for storing instructions and data. In some embodiments, the memory in the processor 110 is a cache memory. The memory may store instructions or data that the processor 110 has just used or recycled. If the processor 110 needs to use the instruction or data again, it may be invoked directly from the memory. It avoids the repeated access, reduces the waiting time of the processor 110, so as to improve the efficiency of the system.

In some embodiments, the processor 110 may include one or more interfaces. the interface may include an integrated circuit (inter-integrated circuit, I2C) interface, integrated circuit built-in audio (inter-integrated circuit sound, I2S) interface, pulse code modulation (pulse code modulation, PCM) interface, universal asynchronous transceiver (universal receiver/transmitter, UART) interface, mobile industry processor interface (mobile interface, MIPI), universal input and output (general-purpose; GPIO) interface, user identification module (subscriber identity module, SIM) interface, and/or universal serial bus (universal serial bus, USB) interface and so on.

I2C interface is a bidirectional synchronous serial bus, comprising a serial data line (serial data line, SDA) and a serial clock line (derail clock line, SCL). In some embodiments, the processor 110 may include multiple groups of I2C bus. Processor 110 can be respectively coupling different I2C bus interface of the touch sensor 180K, charger, flashlight, camera 193 and so on. For example: processor 110 can through the I2C interface coupling the touch sensor 180K, the processor 110 and the touch sensor 180K through the I2C bus interface communication, realizing the touch function of the terminal device 100.

The I2S interface may be used for audio communication. In some embodiments, the processor 110 may include a plurality of sets of I2S bus. The processor 110 may coupling communication between the processor 110 and the audio module 170 via the I2S bus and the audio module 170 In some

embodiments, the audio module 170 can transmit the audio signal to the wireless communication module 160 through the I2S interface, realizing the function of answering the telephone through the Bluetooth headset.

PCM interface can also be used for audio communication, sampling the analog signal, quantizing and coding. In some embodiments, the audio module 170 and the wireless communication module 160 can be through PCM bus interface coupling In some embodiments, the audio module 170 also can transmit the audio signal to the wireless communication module 160 through the PCM interface, realizing the function of answering the telephone through the Bluetooth headset. Both the I2S interface and the PCM interface may be used for audio communication.

UART interface is a universal serial data bus for asynchronous communication. The bus may be a bidirectional communication bus. It converts the data to be transmitted between serial communication and parallel communication. In some embodiments, UART interface is generally used for connecting processor 110 and wireless communication module 160. For example: The processor 110 communicates with the Bluetooth module in the wireless communication module 160 through the UART interface to realize the Bluetooth function. In some embodiments, the audio module 170 can transmit the audio signal to the wireless communication module 160 through the UART interface, realizing the function of playing music through the Bluetooth earphone.

The MIPI interface may be used to connect the peripheral devices such as the processor 110 and the display screen 194, the camera 193, and the like. The MIPI interface comprises a camera serial interface (CSI), a display screen serial interface (DSI) and so on. In some embodiments, the processor 110 and the camera 193 through CSI interface communication, realizing the photographing function of the terminal device 100. processor 110 and display screen 194 through the DSI interface communication, realizing the display function of the terminal device 100.

The GPIO interface can be configured by software. The GPIO interface may be configured as a control signal, or may be configured as a data signal. In some embodiments, the GPIO interface can be used for connecting processor 110 and camera 193, display screen 194, wireless communication module 160, audio module 170, sensor module 180 and so on. The GPIO interface can also be configured as I2C interface, I2S interface, UART interface, MIPI interface and so on.

USB interface 130 is the USB standard standard interface, specifically can be Mini USB interface, Micro USB interface, USB Type C interface and so on. The USB interface 130 may be used to connect the charger to charge the terminal device 100, and may also be used to transmit data between the terminal device 100 and the peripheral device. it also can be used for connecting the earphone, playing the audio through the earphone. The interface can also be used for connecting other terminal devices, such as AR device and so on.

It can be understood that the interface connection relationship between each module of the embodiment of the application embodiment, only schematically, and does not form the structure of the terminal device 100 is defined. In other embodiments of the application, the terminal device 100 can also adopt different interface connection mode in the above embodiment, or a combination of multiple interface connection mode.

The charging management module 140 is used for receiving the charging input from the charger. wherein the charger can be wireless charger, also can be wired charger. In some wired charging embodiments, the charging management module 140 can receive the charging input of the wired charger through the USB interface 130. In some wireless charging embodiments, the charging management module 140 can receive wireless charging input through the wireless charging coil of the terminal device 100. the charging management module 140 is a battery 142 charging at the same time, it also can through the power management module 141 is the terminal device power supply.

The power supply management module 141 is used for connecting the battery 142, the charging management module 140 and the processor 110. power management module 141 receives the input of the battery 142 and/or charging management module 140, is processor 110, internal memory 121,

external memory, display screen 194, camera 193, and wireless communication module 160 and so on. power supply management module 141 can also be used for monitoring battery capacity, battery cycle times, battery health state (leakage, impedance) and other parameters. In other embodiments, the power management module 141 may also be set in the processor 110. In some other embodiments, the power supply management module 141 and the charging management module 140 can also be set in the same device.

The wireless communication function of the terminal device 100 may be implemented by the antenna 1, the antenna 2, the mobile communication module 150, the wireless communication module 160, the modem processor, and baseband processor.

The antenna 1 and the antenna 2 are used for transmitting and receiving electromagnetic wave signals. The structure of the antenna 1 and the antenna 2 in FIG. 1 is only one example. Each antenna in the terminal device 100 may be used to cover a single or a plurality of communication bands. different antennas can be multiplexed, so as to improve the utilization rate of the antenna. For example: The antenna 1 can be multiplexed into a diversity antenna of a wireless local area network. In some other embodiments, the antenna can be used in combination with a tuning switch.

The mobile communication module 150 may provide a solution for wireless communication including 2G/3G/4G/5G, etc., which is applied to the terminal device 100. The mobile communication module 150 may include at least one filter, a switch, a low-noise amplifier amplifier, a low noise amplifier, an LNA, and the like. the mobile communication module 150 can receive electromagnetic wave by the antenna 1, and filtering the received electromagnetic wave, amplifying and so on, transmitting to the modulation demodulation processor for demodulation. The mobile communication module 150 may also amplify the modulated signal modulated by the modulated demodulation processor, and convert the modulated signal into electromagnetic radiation by the antenna 1. In some embodiments, at least a portion of the function module of the mobile communication module 150 may be set in the processor 110. In some embodiments, at least a portion of the functional module of the mobile communication module 150 can be at least part of the module of the processor 110 is set in the same device.

The modem processor may include a modulator and a demodulator. wherein the modulator is used for modulating the low-frequency signal baseband be transmitted into medium-high frequency signal. The demodulator is used for demodulating the received electromagnetic wave signal into a low-frequency signal baseband The demodulator then transmits the demodulated low-frequency baseband signal to a baseband processor for processing. The low-frequency baseband is transmitted to the application processor after being processed by the baseband The application processor outputs a sound signal through an audio device (not limited to speakers 170A, receiver 170B, etc.), or displays an image or video through a display screen 194. In some embodiments, the modulation demodulation processor may be an independent device. In other embodiments, the modem processor may be independent of the processor 110, and may be provided in the same device as the mobile communication module 150 or other functional modules.

wireless communication module 160 can provide application on the terminal device 100 comprises a wireless local area network (wirelesslocal area network, WLAN) (such as wireless fidelity (wireless fidelity (wireless fidelity, Wi-Fi) network). Bluetooth (Bluetooth, BT), global navigation satellite system (global system, GNSS), frequency modulation (frequency modulation, FM), The invention claims a solution for wireless communication such as short-range wireless communication technology (NFC), infrared technology (IR) and so on. The wireless communication module 160 may be one or more devices that integrate at least one communication processing module. The wireless communication module 160 receives the electromagnetic wave through the antenna 2, the electromagnetic wave signal frequency modulation and filtering processing, the processed signal is sent to the processor 110. The wireless communication module 160 may also receive the signal to be transmitted from the processor 110, to adjust the frequency, amplify, to electromagnetic radiation by the antenna 2.

In some embodiments, the terminal device 100 of the antenna 1 and the mobile communication module 150 coupling antenna 2 and wireless communication module 160 coupling so that the terminal device 100 can communicate with the network and other devices through wireless communication

technology. The wireless communication technology may include a global system for mobile communications (GSM), a general packet radio service (General Packet Radio Service), GPRS), code division multiple access (CDMA), wideband code division multiple access (WCDMA), WCDMA, Time-division code division multiple access (TD-SCDMA), long term evolution (LTE), BT, GNSS, and WLAN, NFC, FM, and/or IR technology and so on. the GNSS can include global satellite positioning system (global positioning system, GPS), global navigation satellite system (global satellite system, GLONASS), Beidou satellite navigation system (BDS), quasi-zenith satellite system (R-zenith) tesystem, QZSS) and/or star-based augmentation system (SBAS).

the terminal device 100 through the GPU, display screen 194, and application processor to realize the display function. the GPU is microprocessor of image processing, connecting display screen 194 and application processor. The GPU is used for performing mathematical and geometric calculations for graphics rendering. The processor 110 may include one or more GPUs that perform program instructions to generate or change display information.

Display screen 194 is used for displaying image, video and so on. The display screen 194 includes a display panel. The display panel may be a liquid crystal display (LCD), an organic light-emittingdiode (OLED), or an organic light emitting diode (OLED). active matrix organic light emitting diode or active matrix organic light emitting diode (AMOLED), flexible light emitting diode (flex) light-emittingdiode, FLED), Miniled, MicroLed, Micro-oLed, quantum dot light emitting diode (QLED) and so on. In some embodiments, the terminal device 100 may include 1 or N display screen 194, N is a positive integer greater than 1.

The terminal device 100 can realize photographing function through ISP, camera 193, video codec, GPU, display screen 194 and application processor.

The ISP is used for processing the data fed back by the camera 193. For example, when photographing, opening the shutter, the light is transmitted to the camera photosensitive element through the lens, the optical signal is converted into electric signal, the camera photosensitive element transmits the electric signal to the ISP processing, converting into the image visible to the naked eye. ISP can also optimize the image noise point brightness and skin colour algorithm. ISP also can be the exposure of the shooting scene, color temperature and other parameters optimization. In some embodiments, the ISP can be set in the camera head 193.

Camera 193 is used for capturing static image or video. The object generates an optical image through the lens and projects to the photosensitive element. The photosensitive element may be a charge coupled device (CCD) or a complementary metal-oxide-semiconductor (CMOS) phototransistor. The photosensitive element converts the optical signal into an electric signal, and then transmits the electric signal to the ISP for converting into the signal digital image The ISP outputs the digital image signal to the DSP processing. The DSP converts the digital image signal into the standard RGB, YUV and other formats of image signals. In some embodiments, the terminal device 100 may include 1 or N cameras 193, N is a positive integer greater than 1.

digital signal processor is used for processing the digital signal, in addition to processing the digital image signal, and also can process other digital signal. For example, when the terminal device 100 is selected at the frequency point, digital signal processor is used for performing Fourier transform on the frequency point energy.

The video codec is used for compressing or decompressing digital video. The terminal device 100 may support one or more video codecs. Thus, the terminal device 100 can play or record a plurality of coding format of video, for example: Dynamic image expert group (MPEG) 1, MPEG2, MPEG3, MPEG4 and so on.

NPU is neural network processor of the neural network (N-network, NN), by reference to the biological neural network structure, for example, by using the transmission mode between the human brain

neuron, fast processing the input information, and also can continuously self-learning. Through the NPU can realize the intelligent cognition of the terminal device 100 application, such as: image identification, face identification, voice recognition, text understanding and so on.

The external memory interface 120 may be used to connect an external memory card, such as a Micro SD card, to implement the storage capability of the extended terminal device 100. The external memory card communicates with the processor 110 through the external memory interface 120 to realize the data storage function. For example, the music, video and other files are stored in the external memory card.

the internal memory 121 can be used for storing computer executable program code, the executable program code comprises instructions. processor 110 by running instructions stored in the internal memory 121, so as to perform various functional applications and data processing of the terminal device 100. The internal memory 121 may include a storage program area and a storage data area. wherein the storage program area can store the operation system, at least one application program needed by the function (such as sound playing function, image playing function and so on) and so on. The storage data area may store data (such as audio data, phonebook, etc.) created during use of the terminal device 100. In addition, the internal memory 121 may include a high speed random access memory, and may also include a non-volatile memory, such as at least one disk memory device, flash memory device, universal flash memory (universal flash memory, UFS) and so on.

The terminal device 100 may implement audio functions through an audio module 170, a speaker 170A, a receiver 170B, a microphone 170C, an earphone interface 170D, and an application processor. such as music playing, recording and so on.

audio module 170 for converting the digital audio information into analog audio signal output, also used for converting the analog audio input into a digital audio signal. The audio module 170 may also be used to encode and decode the audio signal. In some embodiments, the audio module 170 can be set in the processor 110, or the audio module 170 part function module is set in the processor 110.

loudspeaker 170A, also called horn, for converting the audio electric signal into a sound signal. The terminal device 100 can listen to the music through the speaker 170A, or listen to the hands-free call.

receiver 170B, also called telephone receiver, for converting the audio electric signal into sound signal. When the terminal device 100 answers the telephone or voice information, the receiver 170B can answer the voice by approaching the human ear.

microphone 170C, also called microphone, microphone, for converting the sound signal into electric signal. when dialing or sending voice information, the user can through the human mouth close to the microphone 170C to sound, the sound signal is input to the microphone 170C. The terminal device 100 may be provided with at least one microphone 170C. In some other embodiments, the terminal device 100 can be provided with two microphones 170C, except collecting the sound signal, also can realize the noise reduction function. In some other embodiments, the terminal device 100 may also be provided with three, four or more microphones 170C, realizing collecting sound signal, noise reduction, also can identify sound source, realizing directional recording function and so on.

The headset interface 170D is used to connect the wired headset. The headset interface 170D may be a USB interface 130, or an open mobile terminal device platform (OMTP) standard interface of 3.5mm, and a cellular telecommunications industry association (cellular). and a standard interface of the USA, CTIA).

the pressure sensor 180A is used for sensing the pressure signal, the pressure signal can be converted into an electric signal. In some embodiments, the pressure sensor 180A can be set on the display screen 194. The type of pressure sensor 180A is many, such as resistance type pressure sensor, inductance type pressure sensor, capacitance type pressure sensor and so on. The capacitive pressure sensor may be a parallel plate comprising at least two electrically conductive materials. When a force acts on the pressure sensor 180A, the capacitance between the electrodes changes. The terminal device 100 determines the strength of the pressure according to the change of the

capacitance. When a touch operation acts on the display screen 194, the terminal device 100 detects the touch operation intensity based on the pressure sensor 180A. The terminal device 100 can also calculate the position of the touch according to the detection signal of the pressure sensor 180A. In some embodiments, acting on the same touch position, but different touch operation intensity of the touch operation, can correspond to different operation instructions. For example: when the touch operation intensity is less than the first pressure threshold value of the touch operation on the short message application icon, executing the instruction of checking the short message. when the touch operation intensity is greater than or equal to the first pressure threshold value of the touch operation on the short message application icon, executing the new short message instruction.

The gyroscope sensor 180B may be used to determine a motion gesture of the terminal device 100. In some embodiments, the gyroscope sensor 180B can determine the angular velocity of the terminal device 100 around three axes (i.e., x, y and z axis). gyroscope sensor 180B can be used for shooting anti-shake. Exemplary, when pressing the shutter, gyroscope sensor 180B detects the terminal device 100 jitter angle, calculating the lens module needs to compensate the distance according to the angle, the lens by the reverse motion to counteract the jitter of the terminal device 100, realizing anti-shake. gyroscope sensor 180B can also be used for navigation, somatosensory game scene.

The air pressure sensor 180C is used for measuring the air pressure. In some embodiments, the terminal device 100 by the air pressure value measured by the air pressure sensor 180C to calculate the altitude, auxiliary positioning and navigation.

The magnetic sensor 180D includes a Hall sensor. The terminal device 100 can use the magnetic sensor 180D to detect the opening and closing of the flip leather sheath. In some embodiments, when the terminal device 100 is a cover turning machine, the terminal device 100 can according to the magnetic sensor 180D detection cover opening and closing. so as to according to the detected opening and closing state of the leather sheath or the opening and closing state of the turning cover, setting a turning cover automatic unlocking and so characteristics.

The acceleration sensor 180E can detect the magnitude of the acceleration of the terminal device 100 in each direction (generally three-axis). When the terminal device 100 is still, the size and direction of the gravity can be detected. it also can be used for identifying the terminal device posture, applied to transverse and vertical screen switching, pedometer and so on.

The distance sensor 180F is used for measuring the distance. The terminal device 100 can measure the distance by infrared or laser. In some embodiments, photographing scene, terminal device 100 can utilize distance sensor 180F distance to realize fast focusing.

The proximity light sensor 180G may include, for example, a light emitting diode (LED) and a light detector, such as a photodiode. The light emitting diode may be an infrared light emitting diode. The terminal device 100 transmits infrared light the outside through the light emitting diode. The terminal device 100 uses a photoelectric diode to detect infrared reflected light from a nearby object. When sufficient reflected light is detected, the object can be determined near the terminal device 100. When not sufficient reflected light is detected, the terminal device 100 can determine that there is no object near the terminal device 100. The terminal device 100 can use the proximity light sensor 180G detecting user handheld terminal device 100 close to the ear communication, so as to automatically extinguish the screen to achieve the purpose of saving power. near light sensor 180G also can be used for leather mode, pocket mode automatic unlocking and the lock screen.

The ambient light sensor 180L is used to sense ambient light brightness. The terminal device 100 can self-adaptively adjust the brightness of the display screen 194 according to the sensed ambient light brightness. The ambient light sensor 180L can also be used to automatically adjust the white balance when photographing. ambient light sensor 180L also can be close to the light sensor 180G, detecting whether the terminal device 100 in the pocket, to prevent mistakenly touching.

Fingerprint sensor 180H used for collecting fingerprint. terminal device 100 can use the collected fingerprint to characteristics fingerprint unlocking access application lock, fingerprint photographing,

fingerprint answering incoming call etc.

The temperature sensor 180J is used to detect the temperature. In some embodiments, the terminal device 100 uses the temperature sensor 180J to detect the temperature, executing temperature processing strategy. For example, when the temperature reported by the temperature sensor 180J exceeds a threshold value, the terminal device 100 performs reducing the performance of the processor located near the temperature sensor 180J, so as to reduce power consumption performing thermal protection. In some other embodiments, when the temperature is lower than the other threshold, the terminal device 100 heats the battery 142 to avoid the low temperature caused by the terminal device 100 abnormal shutdown. In some other embodiments, when the temperature is lower than a threshold value, the terminal device 100 to the output voltage of the battery 142 to perform boosting, to avoid abnormal shutdown caused by low temperature.

touch sensor 180K, also called touch panel. touch sensor 180K can be set on the display screen 194, touch screen is composed of touch sensor 180K and display screen 194, also called touch screen. The touch sensor 180K is used to detect a touch operation that acts on or near it. The touch sensor may transfer the detected touch operation to the application processor to determine a touch event type. A visual output associated with the touch operation may be provided by the display screen 194. In some other embodiments, the touch sensor 180K can also be set on the surface of the terminal device 100, and the display screen 194 position different.

The bone conduction sensor can 180M the vibration signals In some embodiments, the bone conduction sensor can 180M the vibration signals body sound part vibrating bone block. The bone conduction sensor can 180M contact for receiving the pulse of the human body, and receiving the blood pressure jumping signal. In some embodiments, bone conduction sensor can 180M be set in the earphone, combined into bone conduction earphone. audio module 170 can be based on the bone conduction sensor 180M the sound part vibrating bone block, vibration signals the voice signal, realizing voice function. the application processor can analyze the heart rate information based on the blood pressure jumping signal obtained by the bone conduction sensor 180M and realize the heart rate detection function.

key 190 comprises a starting key, a volume key and so on. The key 190 may be a mechanical key. It also can be touch key-press. The terminal device 100 may receive a key input, generate a key signal input associated with a user setting and a function control of the terminal device 100.

The motor 191 may generate a vibration prompt. motor 191 can be used for incoming call vibration prompt, also can be used for touch vibration feedback. For example, action on different applications (such as photographing, audio playing and so on) of the touch operation, can correspond to different vibration feedback effect. acts on the touch operation of different areas of the display screen 194, the motor 191 also can correspond to different vibration feedback effect. Different application scenarios (e.g., time reminding, receiving information, alarm clock, game and so on) also can correspond to different vibration feedback effect. The touch vibration feedback effect also can support user-defined.

indicator 192 can be an indicator lamp, can be used for indicating the charging state, electric quantity change, also can be used for indicating the message, missed call, notification and so on.

The SIM card interface 195 is used to connect the SIM card. SIM card can be inserted into the SIM card interface 195, or pulled out from the SIM card interface 195, realizing and terminal device 100 of the contact terminal device 100 can support 1 or N SIM card interface, N is a positive integer greater than 1. SIM card interface 195 can support the Nano SIM card, Micro SIM card, SIM card and so on. The same SIM card interface 195 can be inserted into a plurality of cards at the same time. the type of the plurality of cards can be the same, or can be different. The SIM card interface 195 may also be compatible with different types of SIM cards. The SIM card interface 195 may also be compatible with an external memory card. the terminal device 100 through the SIM card and network interaction, realizing communication and data communication function. In some embodiments, the terminal device 100 uses eSIM, namely: and an embedded SIM card. eSIM card can be embedded in the terminal device 100, cannot be separated from the terminal device 100.

The software system of the terminal device 100 may employ a hierarchical architecture, an event drive architecture, a micro-core architecture, a micro-service architecture, or a cloud architecture. application embodiment of the invention uses the Android system of the hierarchical architecture as an example, exemplary explanation terminal device 100 software structure.

FIG. 2 is a software structure block diagram the terminal device 100 of the application embodiment. The hierarchical architecture divides the software into a number of layers, each layer having a clear character and a division. The layers communicate with each other through a software interface. In some embodiments, the Android system is divided into four layers, from up to down are application program layer, application program frame layer, Android runtime (Android) and system library, and an inner core layer. The application program layer may include a a series application package.

As shown in FIG. 2, the application package may include a camera, a gallery, calendar, call, map, navigation, WLAN, Bluetooth, music, video, short message and other application program.

The application frame layer provides an application programming interface (API) and a programming frame for application programs of the application layer. The application frame layer includes some pre-defined functions.

As shown in FIG. 2, the application program frame layer may include a window manager, a content provider, a view system, a telephone manager, a resource manager, a notification manager and so on.

The window manager is used for managing the window program. window manager can obtain the size of the display screen, judging whether there is a state column, locking screen, intercepting screen and so on.

The content provider is used for storing and acquiring data, and enabling the data to be accessed by the application program. The data may include video, image, audio, telephone dialing and answering, browsing history and bookmark, telephone directory and so on.

The view system comprises a visual control, a control for displaying the character, a control for displaying the picture and so on. A view system may be used to construct an application. The display interface may be composed of one or more views. For example, a display interface including a short message notification icon may include a view of displaying a character and a view of a display picture.

The telephone manager is used to provide the communication function of the terminal device 100. such as management of call state (including connection, hang up and so on).

The resource manager provides various resources for applications, such as localized strings, icons, pictures, layout files, video files, and the like.

The notification manager makes the application program can display the notification information in the state column, can be used for conveying the message of the notification type, can be temporarily stopped automatically disappears, without user interaction. For example, the notification manager is used for informing the download completion, message reminding and so on. The notification manager may also be a notification that occurs in the form of a graph or scroll text in the form of a system top part for example, a notification of an application that runs in the background, and may also be a notification that appears on the screen in the form of a dialog window. for example, prompting text information in the state column, sending prompt sound, terminal device vibration, indicating lamp flicker and so on.

Android comprises a core library and a virtual machine. Android is responsible for scheduling and management of Android system.

The core library contains two parts: One part is the function function called by java language, and the other part is the core library of Android.

The application program layer and the application program frame layer operate in a virtual machine. The virtual machine executes the java file of the application program layer and the application program frame layer as a binary file. The virtual machine is used for managing the life cycle of the object, stack management, thread management, management of security and abnormality, and garbage recycling function.

The system library may include a plurality of functional modules. For example: The present invention also provides a method for processing a surface manager, a media library, a three-dimensional graphics processing library, and a method for processing a three-dimensional graphics processing library. OpenGL ES), 2D graphics engine (e.g., and SGL).

The surface manager is used for managing the display subsystem and provides the fusion of the 2 D and the 3 D layer for a plurality of application programs.

The media library supports multiple common audio, video format playback and recording, and static image file and so on. The media library can support a plurality of audio/video coding formats, such as MPEG4,.,.

The three-dimensional graphics processing library is used for realizing three-dimensional graphics drawing, image rendering, synthesis, and layer processing and so on.

The 2 D graphics engine is a graphics engine of a 2D plot.

The kernel layer is a layer between the hardware and the software. the inner core layer at least comprises a display drive, a camera drive, an audio drive, a sensor drive.

In order to facilitate understanding, the embodiment of the application will have the terminal device of the structure shown in FIG. 1 and FIG. 2 as example, combined with the accompanying drawings and application scene, the method for managing file provided by the embodiment of the application is specifically explained.

Usually, people transmit information through different APP, such as using chat APP, mail APP and other three-party APP to send document, audio, video, picture, audio, installation package and compression package file. in the traditional Android system, the terminal device is used for storing the received file path is complex and astringent, and different APP received by the file storage path is not the same. Therefore, for the common user, if it is necessary to find the file received by APP, searching difficulty is very large. Usually, if the user wants to find the file received from the chat APP name is " document 1 ", it needs to know the storage path of the chat APP default file in Android system, then operating the terminal device, entering the file management APP and searching according to the default storage path of the chat APP in Android system. Generally, the three-party APP received file can be stored in the folder of the " the user knows the default path of the three-party APP storing file as Android> Data> Data> com.tencent.mm> MicroMsg> Download, can be shown in FIG. 3, firstly clicking the icon of the desktop file management APP into the file management APP interface, then clicking the " My mobile phone " folder, sequentially access path Android> Data, and continues as shown in FIG. 4, The catalog can see the catalog of the document 1 in the Download folder, and then the user can operate the document 1. if it is a common user, not knowing the path of the storage file of Android system, it is difficult to find the needed file, resulting in difficult searching file, the user experience is not high.

The application claims a method for managing file, which can according to the type of the received file, position, receiving time, naming the custom-defined element to classify and store file, convenient for user to search file, improving the user experience.

In the embodiment application the invention, the file management APP added in the folder (also can be named as " My file ", FIG. 5 in the " My folder " as an example shown catalog is used for storing all kinds of three-party APP received file. when the user clicks the icon of the file management APP on the desktop shown in FIG. 5 in FIG. 5, example, entering the interface of the file management APP, the interface in the original " My " The interface shown in FIG. 5 is shown in FIG. 5. The user can click the

icon of the "My Folder" and enter the folder. In the "My Folder", a self-defined folder may be newly created, for example, in the interface shown in FIG. 5 in FIG. 5, including: "Folder 1", "folder 2", "folder 3" ... "folder 9", and even more folders may be included, and the user may browse other folders by drawing down the interface shown in the c-graph in FIG. 5. In the "My Folder", catalog is also possible to store files directly, for example, in the interface shown in the d-graph in FIG. 5, "Document 1" can be stored directly under the "My Folder" catalog The user can add folder under the " My folder ", and ordering the file and the folder, sharing, upper cloud disk, deleting and multi-selection operation.

file management APP shown in FIG. 5 file management APP also can include a search column, the user can search the name of the file in the search column, the search range comprises the file of the folder catalog The interface of the file management APP may further include: picture, video, document, audio and application of the plurality of file types of icons, the user can view the corresponding type of file stored on the terminal device by clicking the icons of different types of files, for example, the user clicks the icon of the picture to view the picture stored on the terminal device, the user can click the icon of the video to check the video stored on the terminal device . If the user clicks catalog "my cell phone", it is possible to enter the default catalog the Android system. when the user clicks the " glu cloud disk ", " network neighbour ", " recently deleted ", "Download and receive" or "chat 1" these icons, the terminal device may display a list of files or folders stored at these different locations, or a thumbnail of a file or folder, and when a list of files is displayed, the number of objects included in the folder may also be displayed simultaneously. b of FIG. 5 is the interface schematic diagram of the " browsing " the label page, when the user clicks the " lately " label page, the terminal device can according to the time order the most recently accessed file according to the form of the list to display; The user can also view the personal login information of the file management APP in the "My" label page, cloud space, collection, setting and help pages.

the user by using chat 1 the APP receiving file as an example, as shown in FIG. 6 in the interface shown in FIG. 6, when the other party sends a file name is " document 1 ", the user clicks the file on the chat interface, the system will automatically download the file, and displaying, on the interface, the download progress identifier as shown in the b-graph of FIG. 6 to display the download progress of the current document. Optionally, in FIG. 6 a diagram also can be added download progress identifier beside the icon of the document 1, for displaying the current document download progress. in the file downloading process, the user also can click the pause key to pause the download file. When the file download is completed, the interface may also display the download prompt information and download path, for example, the download shown in b of FIG. 6 has been downloaded: /sdcard/XXX/yyy/zzz/document 1.pdf the reminding information is displayed for several seconds after disappearing. when the file is downloaded, the terminal device can display the preview interface of the file, and the preview interface of the file pop-up graph in FIG. 6 shown in the transverse amplitude notification. the user also can click the icon of the file on the chat interface, the terminal device in response to the user click operation display file preview interface, then the user on the preview interface of the file for drawing, so as to pull the menu of the file and clicking the storage key in the menu, At this time, the terminal device downloads the file based on the operation of the file stored by the user. When the file is downloaded, the terminal device can pop up the banner notification shown in FIG. 6 in FIG. 6 on the interface. the terminal device also can automatically download the file sent by the chat interface, when the file download is finished, bounce out as shown in FIG. 6 in FIG. 6 of the banner notification on the interface. The banner notification may include a shared key and a copied key. the user clicks the sharing key, the file can be shared to the object to be shared, the user clicks the copied key can store the file to the specified catalog Optionally, the banner notification may also display the icon of the received file, name, type, size and other information in the one or more. The banner notification is used to prompt the user document that the document has been stored to the file management APP. if the user does not operate the banner notification at this time, the banner notification will automatically disappear after a period of time, such as 5 seconds not operating banner notification disappears, and collecting to the pull-down notification column, interface directly displays the content of document 1 shown in FIG. 6 d graph, When the user pulls down the notification column, the notification message of the received file is displayed. At this time, the user can drag the document 1 up and down at the interface shown in FIG. 6 to read the document 1; the user also can click the full-screen playing key to switch the display interface of the document 1 to the full screen mode; also can click the key of the " editing ", enter editing mode to edit the content of the document 1, The user can

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also click the "format conversion" key to convert the document 1 from the PDF format to other formats, for example, to a picture format, to a format converted to a long picture, to a doc format, and so on.

the terminal device further can receive the file in the receiving box interface in the electronic mailbox, also can be in the interface of the browser, through the user clicking the downloading link receiving file, but also can be receiving file in the interface of other APP. when the terminal device receives the file, it can pop out banner notification. the user can store the file received by different APP according to the appointed path, which is convenient for the user to concentrate the file received by different APP, orderly storing and managing, which is convenient for the user to find the file of different sources, and improves the user experience.

Alternatively, banner notification can be displayed on the screen side top part screen bottom of the screen. The banner notification shows that the screen is more top part, and does not affect the interface of the user viewing the screen middle area, the user experience is better.

Afterwards, the user can open the file management APP, in the interface of the file management APP clicking the " My file " here the target folder, and under the catalog of the " I file " to find the file to be found. The method stores the file to the user with the catalog folder with self-defined authority, so it can search the desired file in the target folder according to the self-defined path, without user mastering the complex default path of the stored file, which can realize the searching of the file, making the searching of the file more convenient and fast, improving the user experience.

The terminal device may continuously receive a plurality of files, each receiving a file, displaying the banner notification corresponding to the file, and replacing the display before receiving the banner notification of the file. Specifically, when the user receives the first file, the interface on the first file of the banner notification. if the first banner notification does not disappear then receiving the second file, then the interface of the terminal device will display the banner notification corresponding to the second file, for covering the banner notification of the first file. continuing to the user by using chat 1 the APP receiving file as an example, when the user clicks the icon of the document 1, the terminal device displays the document 1 preview interface, when the document 1 is downloaded, the interface of the terminal device pop-up as shown in FIG. 7 a graph of the document 1 of the banner notification, If the user does not click or scratch the banner notification, the banner notification may continue to display for a period of time. the document 1 of the banner notification for a period of time, if the user switching the current display interface to FIG. 7 in the chat 1 as shown in FIG. 7 and clicking the icon of the picture 1 sent by the other party, the terminal device downloads the picture 1. the document 1 of the banner notification for a period of time, the user also can click the icon of the picture 1 on the chat interface, the terminal device in response to the user clicking operation display the preview interface of the file, then the user on the preview interface of the file for the upper stroke, so as to pull out the menu of the picture 1 and clicking the storage key in the menu, the terminal device downloads the picture 1 based on the operation of storing the picture by the user. when the terminal device finishes the download of the picture 1, the terminal device can display the preview interface of the picture 1, and on the preview interface of the picture 1 display can be shown in FIG. 7 picture 1 corresponding to the picture 1 corresponding to the banner notification to replace the document 1 of banner notification. As shown in FIG. 7, the first file and the second file may be a document. In some embodiments, if the file received by the terminal device is a picture or video, the terminal device also can not display the banner notification.

If the user does not wish to see the banner notification of some file, then the banner notification can be performed the upper stroke operation, then the terminal device can not notify the banner of the type file in a period of time. For example, when the terminal device receives a picture file, and displaying the banner notification of the picture file, if the user scrawring the banner notification, then within 60 seconds after the upper stroke, if the terminal device receives the file of the picture type again, not to remind in the form of banner notification. after 60 seconds after the upper stroke, the terminal device recovers the banner notification of the picture file.

if the user clicks on the transverse notification of copying to the key (also can be the key of the " another is ", the specific form of the key of the file for storing the application is not limited, the

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application to copy to the key as an example), the interface catalog to " That is, the d-graph in FIG. 6 jumps to the interface shown in FIG. 8 in FIG. 8. At this time, the interface displays the file and file folder of the " I file " catalog and pop-up the first prompting frame shown in FIG. 8 in FIG. 8 to prompt the user, the first prompting frame displays: Copy 1 to "My File." If the user clicks on the "Acknowledory" key (i.e., the third control) on the prompt box, then the document 1 can be stored as shown in FIG. 8 to the "My File" root directory. the first prompting frame further comprises a cancel key, such as " * ", user click cancel key can cancel the operation of the other file. Optionally, cancelling the operation of the other file, the terminal device can display the root directory interface of the target folder. If the user wants to store the document 1 to the specified folder, for example, stored to the catalog 2 (i.e., the first folder), the user can click the icon of the folder 2 in the interface shown in the a-picture in the 7, displaying the second prompting frame, The prompting content in the second prompting frame can be shown as b in FIG. 8, which is: The document 1 may be stored in the folder 2 by copying 1 to the "folder 2", and the user clicks on the "√" confirmation key (i.e., the fourth control) on the second prompt box. Optionally, the second prompt box further comprises a cancel key, such as " * ", user click cancel key can cancel the operation of the other file. Optionally, cancelling the operation of the other file, the terminal device can display the root directory interface of the target folder or the root directory interface of the first folder. Afterwards, the user can enter the catalog through clicking the icon of the folder 2, the interface of the terminal device can be as shown in FIG. 8 c shown in the icon of the document 1. The method based on user operation realizes storing the first file to the user-selected self-defined path, convenient for user to search file, improving the user experience.

When the user clicks the icon of the document 1 in the interface c of FIG. 8, the terminal device may use the default program to open the document 1 for the user to read. When there are a plurality of files in the catalog 2, the user can also switch the file arrangement mode. FIG. 8 in FIG. c is shown according to the name order, the user also can click the switching key arrangement order of the arrangement mode of the file is switched to the time order, according to the size order or type order and so on. the user also can switch the file and the file folder view mode, FIG. 8 in the c picture is shown in the list form as an example, the user can click the switch key of the view mode of the file and the list form of the folder is switched to the viewing mode of the thumbnail.

If the catalog or category of the file is more, the user can click the key of the new folder, to increase a new folder. As shown in FIG. 9. the user in FIG. 9 in the interface shown in FIG. 9, clicking the key of the new folder, interface pop-up dialog box of the new folder shown in FIG. 9 b shown in FIG. 9, the name of the new folder can be considered as " new folder ", if the catalog has already exists the default name, then the name of the new folder can be considered as " new file 2 ", " new file 3 " and so on, and so on. The user may also input a custom folder name in the input field of the name of the new folder, for example, the folder name as defined by the "Zhang 3 file" shown in the c figure in FIG. 9 can be input. after the user inputs the user-defined folder name, clicking the determining button, then generating the folder with the name shown as the page d in FIG. 9 as the file of "Chang 3" under the catalog of clicking.

If the user wants to move the document 1 to the folder of the newly-established "Zhang three," the document 1 can be operated. For example, the user length according to the icon of document 1 to make it in the selected and suspended state shown in FIG. 10 a graph, then the user the icon of document 1 is dragged to the icon of the " Zhang three " For example, the icon of the document 1 is dragged to the position shown by the icon of the suspension state of document 1 in b in FIG. 10, then document 1 is stored to the file of the " Zhang 3 catalog. At this time, because the storage catalog 1 is moved, has not been present under the current catalog such as the interface shown in FIG. 10 c shown in FIG. 10, the current of the catalog " file " When the user clicks into the catalog of "Zhang 3", the interface can display the icon of the document 1 as shown in FIG. 10 d.

If the user clicks the "copy to" key on the banner notification, it is found that there is no folder in accordance with the requirement in the interface shown in FIG. 8, the user can click the key of the new folder to increase the new folder, the specific process of the new folder can refer to the flow shown in FIG. 9, which will not be repeated here.

If the user clicks on the "copy to" key on the banner notification, it is found that the file does not need to be stored, then the cancel button can be clicked, for example, the "x" cancel button on the banner notification shown in the figure a in FIG. 8 cancels the operation.

The process of storing the file shown in FIG. 8 is only one example, in fact, the user can also select more levels of catalog to store the file according to the need.

the user can also operate banner notification to realize the sharing of the file, such as the user can click the " sharing " key on the banner notification, as shown in FIG. 11 a picture operation, at this time, the interface pop-up as shown in FIG. 11 of the glory sharing window shown in FIG. the sharing window can display icons of a plurality of sharing objects, it can include icons of other APP installed on the machine, including but not limited to icon of mail APP, icon of chat APP, icon of browser and icon of short message; It may also include icons of other devices, including, but not limited to, icons of other mobile phones, icons of other large screen devices (smart screens), icons of the printer, and icons of the computer. the user can click the selection needs to share the object according to the need, then the file is shared. The terminal device can share the file to other APP and other devices, so that the resource sharing mode is more abundant and various.

FIG. 11 in the mail mode sharing file as an example for explanation, when the user in the interface shown in FIG. 11 in FIG. 11 in the interface clicking the sharing window in the mail APP icon, the interface is switched to the mail APP shown in FIG. 11 in the mail APP sends the mail interface. At this time, the document 1 is automatically used as the attachment of the mail sent this time, and appears in the attachment column. user input information of sending mail on the mail sending interface shown in FIG. 11 c shown in FIG. 11, such as input recipient, subject, mail text and selecting importance content, click sending key to send the mail, document 1 as the attachment of the mail is shared to the recipient mailbox. If the user does not want to share the document 1 in the process of inputting the information of sending the mail, it also can click the deletion key of the icon of the attachment in the attachment column to delete the attachment. The information for sending the mail shown in the graph c in FIG. 11 is only one example. after the user clicks the sending key, the interface of the terminal device from the interface c shown in FIG. 11 sends the interface skipping to the interface of the content of the document 1, and synchronously displaying the state of the mail sending shown in FIG. 11 d. When the interface of the terminal device just jumps to the interface of the content of the document 1, the possible mail is sending process, then the mail sending state displayed in the d of FIG. 11 can be displayed as "sending mail ...", indicating that the mail is not yet sent successfully. Optionally, when the mail is sent successfully, the mail sending state of the prompt message, directly displaying the content of document 1 on the interface; or the prompt message state of the mail is sent by " sending mail ... " is switched to " sent ", and prompt message disappears after displaying a period of time, such as displaying the character three seconds of " sent ", the mail sending state of the prompt disappears, interface display content of document 1.

the terminal device pulls the sharing window through the sharing control of the user operation banner notification, and sharing the file to the target object selected by the user, realizing the sharing of the resource, enriching the function of the terminal. compared with the process of the user actively searching the file and then sharing, the sharing control of the operation banner notification directly pulls the sharing window so as to share the file, the operation is more convenient and fast, improving the efficiency of resource sharing, improving the user experience.

In the above embodiment, the user triggers the download of the file by clicking the icon of the file. In the embodiment of the application, it also can be the user in the manual clicking file of the storage key (e.g., click " stored to the mobile phone) and triggering the download of the file. When the user clicks a menu bar of the document 1 as shown in the a-graph in FIG. 12 and clicks the save button, the download of the document 1 is triggered. When the document 1 is downloaded, a banner notification of document 1 as shown in FIG. 12 b is popped up on the interface.

Optionally, the user may also be as shown in FIG. 13 of the operation, the document 1 interface is pulled up as shown in FIG. 13 b of the glory sharing window, the sharing window may include a plurality of sharing objects, further comprising a key of the "another memory", when the user clicks

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the " another " key in the sharing window, the interface can jump to the " I file " catalog the interface shown in FIG. 8, realizing the file stored according to the specified path.

Optionally, when the user is viewing the file, and does not close the file, but directly returns to the desktop, the desktop further can display the file management card shown in FIG. 14. Optionally, the file management card can display the recently accessed file. the user can click the file management card into the interface of the file manager to check the file and operate the corresponding file or folder, it also can directly operate the file in the file management card, such as clicking the sharing key to realize the sharing of file. Optionally, when the user viewing the file, and does not close the file, but directly returns to the desktop, desktop further can display the file management card shown in FIG. 14 b graph, when the user clicks the document 1 of the pull-down menu, document 1 of the pull-down menu can display the " sharing " and " copied to ", The user can directly click on the "sharing" or "copy to" key to realize the corresponding operation. If the user left sliding file management card, it can be switched to the weather card shown in FIG. 14 c shown in FIG.

If the user clicks the message body on the banner notification at the interface shown in FIG. 15 in FIG. 15, that is, clicking the banner notice except for "sharing" and "copy to" other areas other than the area where the key is located, the terminal device skips to the file manager interface, and displaying the latest label page of the file management APP shown in FIG. 15 in FIG. 15. in the nearest tag page of the file management APP, it can display the just received document 1 of the icon, further can display other relatively short time user access of the file, FIG. 15 in the b picture in the latest access of the file comprises: The document 1 received by the APP of the chat 1, the document 2 received by the APP of the mail 1 and the table 1 received by the APP of the office 1 are shown as an example. the user can click the sharing or copy to the key to share the file or store to other folders, specifically can refer to the description of the above embodiments, here will not be repeated here. if the user is the interface of the first opening file management system, the terminal device further can pop up the privacy declaration interface shown in FIG. 15 c shown in FIG. 15, the user clicks the " agree " into the interface of the file manager shown in FIG. 15 b graph, if the user clicks the " cancel " The terminal device gives up the interface to enter the file manager. The user also can click on the specific content of the declaration by clicking on the declaration of honor file management and privacy. The method enters the interface of file management APP by clicking the message main body of banner notification, and operates the card of the file received in the interface of the file management APP, it can realize the other storage and sharing of the file without searching the complex file storage path by the user, the operation mode is simple and fast.

if the user clicks the "sharing" on the banner notification, copying to the message body of the or banner notification, the file has been deleted, for example, the file is withdrawn by the sender or the file is deleted in the file manager, then it can prompt the user file does not exist.

when the terminal device receives the new file by the three-party APP, the user also can pull down the notification column to view the notification message of the received file, and the notification message of the received file notification displayed. The user may also perform a pull-down operation top part the interface of the interface shown in FIG. 16, and open the notification column. the notification column comprises immediately received the document 1 of the notification message of the floating window, pull down notification column in each notification message of the next dish single-default considering the combination display, as shown in FIG. 16 b. When the user clicks the menu key on the floating window of the document 1, the floating window of the document 1 displays the "sharing" key and "copy to" key as shown in FIG. 16 c. the user can respectively the document 1 in the floating window of the " sharing " key and " copy to " key to operate, realizing document 1 of storing and sharing, the specific process can be shown in FIG. 8 to FIG. 11 embodiment, here. If the user does not need to view the notification message, then the deletion key of the notification column shown in FIG. 16 can be clicked to remove the notification message in the notification column. after the user clicks the delete key, informing the floating window of document 1 in the column to disappear. If the user only does not want to view the received document 1 of the notification message, further can be left in FIG. 16 shown in FIG. b of the notification message of the floating window, such as shown in FIG. 17 in the operation, the document 1 of the notification message of the floating window retracted to the left, and displaying the set key and delete key shown in FIG. 17 b, the user can click the delete key to delete the

notification message, or click setting the button setting notification message of the reminding mode, such as closing notification, set as silent notification, delay reminding, more setting and cancelling and so on. The method operates the notification message of the received file in the pull-down notification column, without searching the complex file storage path by the user to realize the other storage and sharing of the file, the operation mode is simple and fast.

when the terminal device stores a plurality of files, the notification column corresponding to the plurality of notification messages. if the user operates a certain message, then the notification message is consumed, and no longer appears in the notification column. As shown in FIG. 18 a diagram as example, the notification column displays the document 1 and document 2 the two notification message, the user clicks the unfolded document 1 sharing or copy key and clicking any one of the terminal device to perform the corresponding operation, the specific process can be referred to the aforementioned embodiment, here. For example, the user clicks the message body of the notification message of the document 1 to check the content of the document 1, then the notification message corresponding to the document 1 is consumed, in the notification column, as shown in b of FIG. 18, the notification message of the document 1 is no longer appeared, and the notification message of the document 2 is displayed normally.

when the terminal receives the file number in a fixed time exceeds the preset number threshold value, we believe that too frequent reminding to the user is not meaningful, then the terminal device can cancel the reminding of banner notification, interval a period of time and then recovery reminding. For example, the terminal device receives more than 25 files within one minute, and the terminal device pauses the duration of the banner notification for one minute. If the notification is resumed, the terminal device has received more than 25 files within one minute, and the reminder of the banner notification is paused for a duration of five minutes. by parity of reasoning, if the recovery notification, the terminal device receives more than 25 files for the third time within one minute, then pausing the reminding time of the banner notification gradually prolonging, for example, can sequentially increased to ten minutes, twenty minutes and so on.

The embodiment is the terminal device receives the file from the chat APP for example, the technical solution of the application also can be the other three-party application received file for storing and sharing. For example, when the user uses the browser to access the web page, clicking a link of a certain file, the terminal device automatically downloads the file, when the download is completed, the terminal device can use the default application program to open the file, and also can display the banner notification, prompting the user file download is completed. For example, when the user operates the terminal device, opening one accessory of the e-mail in the mailbox, the terminal device automatically downloads the accessory, when the accessory is downloaded, the terminal device can use the default application program to open the file, at the same time, it can display the banner notification, prompting the user file download is finished. At the same time, the notification of downloading the new file can be displayed in the notification column, the user can operate the banner notification or operation notification column receives the notification message of the file of the floating window, to realize the storage and sharing of the file.

In the embodiment application the invention, when the user " another storage is ", " copied to " or " transfer " and so on, the terminal device default the file stored in the " My folder ", " My folder " can be the backup tool of Android system for backup, and will not be used as garbage file cleaning.

When the terminal device in the cloning process, the terminal device can not need to remind the received file, such as when the clone, the terminal device can close the service switch of the file manager.

In the application of the embodiment of the invention, the file is stored in the " My Folder ", it can not need to repeatedly store the file, but for the original file stored in the default path re-generating a user specified path, so that the user can find the file according to the specified path, it is convenient for the user to search, but also can avoid repeating the storage file, effectively using the storage space, improves the utilization rate of the storage space of the terminal device.

In order to achieve the above scheme, the software architecture of the application embodiment can be shown in FIG. 19, comprising: application program layer, a frame layer and an inner core layer. wherein the frame layer at least comprises system user interface (system UI) and system service (hwsystemserver). the application program layer at least comprises a plurality of three-party APP, honor sharing APP and file management APP (file manager). the inner core layer at least comprises a Bluetooth module, a Wi-Fi module and a file system.

after the terminal device is started, the system service is started, the system service resident file monitoring service FileMonitorService is used for obtaining the switch of the file management service, when the switch of the file management service is turn on the first time, firstly obtaining the configuration information of the monitoring path corresponding to each three-party APP from the gateway routing gatewayroutingserver, GRS) server through the cloud service, subsequently obtaining the monitoring path of each three-party APP from the GRS server through the cloud service timing (i.e., the path of the default storage file after the three-party APP receives the file). when the switch turn on the file management service, the Filephoro orService adopts file monitor (filetype) monitoring the file system in the monitoring path of the file change condition; when the file monitor identifies the new file, filtering according to the preset corresponding file type, filtering the file not belonging to the file type of the monitoring object. when the switch of the file management service is closed, then not obtaining the monitoring path, and not obtaining the change condition of the file under the monitoring path through the FileObserver. Optionally, the switch of the file management service is considered open state, can be manually closed by the user in the file manager, after closing, the file does not monitor the change condition of the file. the mode of closing the file management service can be user pull-down display shown in FIG. 17 of the notification column shown in FIG. 17, for the notification message of the card left sliding, terminal device displays the notification message shown in FIG. 17 of the notification message of the card of the setting key, the user clicks the setting menu for setting the key to eject the notification message; the user clicks the key of the closing notification in the setting menu to realize the closing file management service. the file system is used for managing all files in the terminal device, for example, the file received by the three-party APP is stored or deleted according to the path. the system service is used for monitoring the effective new file, broadcasting the message of the new file to the file manager, and pulling the banner notification by the file manager, displaying on the system UI. the system UI is used for displaying the notification message of the new file in the form of banner notification, and displaying the notification message of the new file in the form of notification message of the notification column, and receiving the operation of copying the file of the user and storing the file to the specified file catalog system UI is further used for sharing APP based on sharing operation of the user, realizing sharing of the file.

In order to more clearly describe the implementation process of the application, the embodiment of the present application will be described in detail with reference to the interaction diagram shown in FIG. 20. As shown in FIG. 20, the system service through the FileMonitorService reading file management service of the switch, if the switch is in the state of turn on, the system service timing access to the three-party APP corresponding to the GRS server, reading the monitoring and configuration of the APP file default storage path, file name, file type and so on information, and feeding back to the file manager, and adjusting the monitoring path in time. if there is online public sentiment, cloud service can adjust the monitoring path configuration is empty, cancelling the monitoring of the file under the monitoring path. The system service obtains the file change condition under the monitoring path through the FileObserver in the FileMonitorService, that is, whether there is new file generated under the monitoring path. if the system service determines that the monitoring notification is in the state of turn on, when there is a new file in the storage path of the file default of the APP, the system service uses the form notification of the broadcast message (including the name of the file, type, path) file manager with a new file, pulling the service of the file manager, the file manager sends the banner notification to the system UI, the system UI to display the banner notification. when the user clicks the banner notification to operate, the system UI can pull the sharing window for file sharing, or locating to the storage path of the file manager, and storing the file. When the banner is notified that the user has been operated (i.e., the notification message is consumed), the resource can be released.

In one embodiment, the method of the application can also be as shown in FIG. 21, comprising:

S2101, displaying the first interface, the first interface comprises a received first file.

S2102, receiving the first operation of the user for the first file, the first operation is used for downloading the first file.

S2103, when the first file is downloaded, displaying the second interface, the second interface comprises a preview interface of the first file and a first banner notification, the first banner notification comprises a first control.

S2104, in response to the second operation performed by the user for the first control, storing the first file to the catalog folder, the target folder is a folder having a self-defined authority, the target folder is different from the system folder.

S2105, displaying the third interface, the third interface is the interface of the file management application program APP, the third interface comprises the target folder and the system folder.

S2106, in response to a third operation of the user for the target folder, displaying the first file.

The technical principle and the technical effect of the present embodiment can be referred to the above embodiments, and will not be repeated here.

An example of a method provided by the application is described in detail above. It can be understood that the corresponding device in order to realize the function, which comprises executing each function corresponding to the hardware structure and/or software module It should be readily appreciated by those skilled in the art that the application and algorithm steps of each example described in connection with the embodiments disclosed herein are capable of being implemented in hardware or in combination of hardware and computer software A certain function is performed in hardware or computer software the way of driving hardware, depending on the specific application of the technical solution and the design constraints. A person skilled in the art may use different methods for each particular application to implement the described functionality, but this implementation should not be considered to be beyond the scope of the present application.

The application can divide the functional module of the device for managing file according to the method example, for example, can divide each function into each function module, also can integrate the two or more than two functions in one module. The integrated module can be implemented in the form of hardware, and also can be implemented in the form of software function module. It should be noted that, the dividing of the module in the application is schematic, only is a logic function division, actual implementation may have a further dividing mode.

FIG. 22 shows a structure schematic diagram of a device for managing file provided by the application. The device 2200 comprises:

a first display module 2201 for displaying the first interface, the first interface comprises a received first file;

a first receiving module 2202, for receiving the first operation of the first file by the user, the first operation for downloading the first file;

a second display module 2203, used for when the first file is downloaded, displaying the second interface, the second interface comprises a preview interface of the first file and the first banner notification, the first banner notification comprises a first control;

a first storage module 2204, for responding to the second operation performed by the user for the first control, storing the first file to the catalog folder, the target folder is a folder having a self-defined authority, the target folder is different from the system folder;

a third display module 2205 for displaying a third interface, the third interface is a file management application program APP interface, the third interface comprises the target folder and the system

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folder;

a fourth display module 2206, for responding to the third operation of the target folder by the user, displaying the first file.

Optionally, the device 2200 further comprises: a second receiving module, for receiving the fourth operation of the user for the second file, the fourth operation is used for downloading the second file, the second file and the first file are different;

a fifth display module, for displaying a fourth interface when the second file is downloaded, the fourth interface comprises a preview interface of the second file and a second banner notification;

a second storage module, for storing the second file to the system folder according to the default path.

Optionally, the first banner notification further comprises a second control, device 2200 further comprises:

a sixth display module, for responding to the fifth operation performed by the user for the second control, displaying a fifth interface, the fifth interface comprises a preview interface and a sharing window of the first file, the sharing window comprises an icon of a plurality of sharing objects, the icon of the plurality of sharing objects comprises the icon of the target object;

a seventh display module, for responding to the sixth operation performed by the user for the icon of the target object, displaying the operation interface of the target object;

a sending module, for responding to the seventh operation executed by the user for the operation interface of the target object, sending the first file to the target object.

Optionally, the target object is a target APP.

Optionally, the target object is a target device.

Optionally, the first storage module 2204 is specifically used for responding to the second operation performed by the user for the first control, displaying the sixth interface, the sixth interface comprises a root directory interface of the target folder and the first prompting frame, the first prompting frame comprises a third control; in response to the eighth operation performed by the user for the third control, storing the first file under the root directory of the target folder.

Optionally, the first storage module 2204 is specifically used for responding to the user in the sixth interface for the first folder execution of the ninth operation, display the seventh interface, the seventh interface comprises a root directory interface and a second prompt frame of the target folder, the second prompt box comprises a fourth control, the first file folder is the file folder under the root directory of the target file folder; in response to the tenth operation performed by the user for the fourth control, storing the first file under the catalog folder.

Optionally, the device 2200 further comprises:

an eighth display module, for responding to the eleventh operation performed by the user, displaying the eighth interface, the eighth interface comprises a first notification message of the first file; and a twelfth operation for responding to the user of the menu key of the first notification message to execute, displaying the first control and the second control of the first notification message.

Optionally, the device 2200 further comprises:

a ninth display module, for responding to the twelfth operation performed by the user for the first banner notification, displaying the ninth interface, the ninth interface is the interface of the file management APP, the ninth interface comprises a card of the first file; and a thirteenth operation for

responding to the user of the menu key of the card of the first file to execute, displaying the first control and the second control.

Optionally, the first file is a document, a picture, video, audio, installation package and a compression package in the any one kind of.

Optionally, the first interface is a chat interface.

Optionally, the first interface is an electronic mailbox of the inbox interface.

Optionally, the first interface comprises a download link of the web page interface.

Optionally, the first banner notifies the display screen top part

Optionally, the device 2200 further comprises: system service, file manager, system UI and display module.

system service, switch for reading file management service;

if the switch of the file management service is in the state of turn on, the system service is used for periodically accessing the server corresponding to the three-party APP to obtain the default storage path of the first file, the default storage path is the path of the system folder catalog

the system service is used for monitoring whether the first file is generated under the default storage path;

if so, the system service is used for sending file updating message to the file manager;

in response to the file update message, the file manager for sending the first banner notification to the system user interface UI;

the system UI is used for displaying the first banner notification, the first banner notification comprises a sharing key and a copying key;

in response to the click operation of the user for the sharing key, the file manager is used for storing the first file under the catalog folder, the target folder is a folder with self-defined authority, the target folder is different from the system folder;

responding to the click operation executed by the user for the sharing key, the system UI is used for displaying the sharing window, the sharing window comprises an icon of a plurality of sharing objects, the icon of the plurality of sharing objects comprises an icon of the target object;

responding to the click operation performed by the user for the icon of the target object, the display module is used for displaying the operation interface of the target object;

responding to the sharing operation performed by the user for the operation interface of the target object, the file manager is used for sending the first file to the target object;

the display module is used for displaying the interface of the file management APP, the interface of the file management APP comprises the target folder and the system folder;

in response to the selection operation of the user for the target folder, a display module for displaying the first file.

Optionally, the system service is further used for monitoring whether to generate the second file under the default storage path;

if yes, then responding to the multi-level selection operation of the system folder according to the default storage path by the user, the display module displays the second file.

The specific manner of the method for executing the management file by the device 2200 and the generated beneficial effect can be described in the related description in the embodiment of the method, and will not be repeated here.

The embodiment application the invention further claims an electronic device, comprising the processor. The electronic device provided by this embodiment may be the terminal device 100 shown in FIG. 1, and a method for executing the above management file. In the case of using an integrated unit, the terminal device may include a processing module, a storage module and a communication module. wherein the processing module can be used for controlling and managing the action of the terminal device, for example, it can be used for supporting the terminal device to execute the display unit, a detecting unit and a processing unit executes the steps. The storage module can be used for supporting the terminal device to execute the storage program code and data. a communication module, which can be used for supporting the communication of the terminal device and other devices.

The processing module may be a processor or a controller. It can realize or execute various exemplary logic blocks described by the disclosure of the application, and a module and a circuit. The processor may also be a combination of computing functions, such as a combination of one or more microprocessors, a digital signal processing (DSP), a combination of a microprocessor, and the like. The memory module may be a memory. The communication module may specifically be a radio frequency circuit, a Bluetooth chip, a Wi-Fi chip and other device interacting with other terminal devices.

In one embodiment, when the processing module is a processor, the storage module is a memory, the terminal device involved in this embodiment can be the device with the structure shown in FIG. 1.

The embodiment application the invention further claims a computer readable storage medium, the computer readable storage medium is stored in the computer program, when the computer program is executed by a processor, the processor executes the method for managing file according to any one of the embodiments.

The embodiment application the invention further claims a computer program product, when the computer program product is run on the computer, the computer executes the related steps, so as to realize the management file in the embodiment of the method.

wherein the electronic device provided by the embodiment, a computer-readable storage medium, a computer program product or chip are used for executing the corresponding method provided by the above, so that the beneficial effect can reach the beneficial effect of the corresponding method provided by the text, here.

In several embodiments provided by the application, it should be understood that the disclosed device and method, can be realized by other means. For example, the above described device embodiment is only schematic, for example, division of module or unit, only is a logic function division, actual implementation may have another dividing mode, such as a plurality of units or components can be combined or can be integrated to another device, or some characteristic can be ignored, or not. the other point, the display or discussion of each other of the coupling or direct coupling or communication connection can be through some interface, indirect coupling communication connection device or unit, can be electric, mechanical or other form.

The unit as a separate component can be or may not be physically separated, as a unit display component can be a physical unit or a plurality of physical units, namely can be located in one place, or can be distributed to a plurality of different places. The purpose of the solution of the embodiment can be realized according to the actual need to select part or all of the units.

In addition, each functional unit in each embodiment of the application be integrated in a processing unit, also can be each unit independently physical presence, also can be two or more than two units integrated in one unit. the integrated unit can be realized by the form of hardware, also can be realized by the form of software function unit.

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The integrated unit may be stored in a readable storage medium if implemented in the form of a software functional unit and sold or used as a separate product. Based on such an understanding, the technical solution of the embodiment of the application invention or all or part of the technical solution to make contribution to the prior art can be embodied in the form of software product, the software product is stored in a storage medium, comprising a plurality of instructions to make one device (can be a single chip, chip and so on) or processor (processor) executes all or part of the steps of each embodiment method application The aforementioned storage medium includes: U disk, mobile hard disk, read only memory (read only memory, ROM), random access memory (random access memory, RAM), disk or optical disk and so on can store the program code of the medium.

The above contents are only the specific embodiments of the present application, but the protection range of the present application is not limited to this, any familiar with the technical field of technical personnel in the technical range of the application, can be easily changed or replaced, should be covered in the protection range of the application. Therefore, the protection scope of the application should be based on the protection scope of the claims.

Claims

1. A method for managing files, wherein the method comprises the following steps: displaying a first interface, the first interface comprises a received first file; receiving the first operation of the first file by the user, the first operation is used for downloading the first file; when the first file is downloaded, displaying the second interface, the second interface comprises a preview interface of the first file and a first banner notification, the first banner notification comprises a first control; in response to the second operation performed by the user for the first control, storing the first file to the catalog folder, the target folder is a folder with self-defined authority, the target folder is different from the system folder; displaying a third interface, the third interface is the interface of the file management application program APP, the third interface comprises the target folder and the system folder; responding to the third operation of the target folder by the user, displaying the first file.

2. The method according to claim 1, wherein the method further comprises: receiving the fourth operation of the user for the second file, the fourth operation is used for downloading the second file, the second file and the first file are different; when the second file is downloaded, displaying a fourth interface, the fourth interface comprises a preview interface of the second file and a second banner notification; and storing the second file to the system file according to the default path.

3. The method according to claim 1 or 2, wherein the first banner notification further comprises a second control, the method further comprises: in response to the fifth operation performed by the user for the second control, displaying a fifth interface, the fifth interface comprises a preview interface and a sharing window of the first file, the sharing window comprises a plurality of sharing object icon, the plurality of sharing object icon comprises an icon of the target object; in response to the sixth operation performed by the user for the icon of the target object, displaying the operation interface of the target object; in response to a seventh operation performed by the user for the operation interface of the target object, sending the first file to the target object.

4. The method according to claim 3, wherein the target object is target APP.

5. The method according to claim 3, wherein the target object is a target device.

6. The method according to any one of claims 1 to 1 to 5, wherein the step of responding to the second operation executed by the user aiming at the first control, storing the first file to the catalog file, comprising: in response to the second operation performed by the user for the first control, displaying a sixth interface, the sixth interface comprises a root directory interface and a first prompting frame of the target folder, the first prompting frame comprises a third control; in response to the eighth operation performed by the user for the third control, storing the first file under the root directory of the target folder.

7. The method according to claim 6, wherein the method further comprises: responding to the ninth operation performed by the user at the sixth interface for the first folder, displaying a seventh interface,

the seventh interface comprises a root directory interface and a second prompting frame of the target folder, the second prompting frame comprises a fourth control, the first folder is the folder of the root directory of the target folder ; in response to the tenth operation performed by the user for the fourth control, storing the first file under the catalog folder.

8. The method according to any one of claims 1 to 1 to 7, wherein the method further comprises: responding to the eleventh operation performed by the user, displaying the eighth interface, the eighth interface comprises a first notification message of the first file; in response to the twelfth operation performed by the user for the menu key of the first notification message, displaying the first control and the second control of the first notification message, the second control is a control for pulling the sharing window, the sharing window comprises a plurality of icons of sharing objects.

9. The method according to any one of claims 1 to 1 to 7, wherein the method further comprises: responding to the twelfth operation performed by the user for the first banner notification, displaying the ninth interface, the ninth interface is the interface of the file management APP, the ninth interface comprises the card of the first file; responding to the thirteenth operation executed by the user of the menu key of the card of the first file, displaying the first control and the second control, the second control is a control for pulling the sharing window, the sharing window comprises an icon of a plurality of sharing objects.

10. The method according to any one of claims 1 to 1 to 9, wherein the first file is any one of a document, a picture, a video, an audio, a mounting package and a compression package.

11. The method according to any one of claims 1 to 1 to 10, wherein the first interface is a chat interface.

12. The method according to any one of claims 1 to 1 to 10, wherein the first interface is an inbox interface of the electronic mailbox.

13. The method according to any one of claims 1 to 1 to 10, wherein the first interface is an interface including a web page for downloading links.

14. The method according to any one of claims 1 to 13 to 4, wherein the first banner notification is displayed on a screen top part

15. The method according to any one of claims 1 to 1 to 14, wherein the method further comprises: the system service reads the switch of the file management service; if the switch of the file management service is in the state of turn on, the system service regularly accesses the server corresponding to the three-party APP to obtain the default storage path of the first file, the default storage path is the path of the system folder catalog monitoring whether the first file is generated in the default storage path by the system service; if so, the system service sends file update message to the file manager; in response to the file update message, the file manager sends the first banner notification to the system user interface UI; the system UI displays the first banner notification, the first banner notification comprises a sharing key and a copying key; in response to the click operation of the user for the sharing key, the file manager stores the first file under the catalog folder, the target folder is a folder with self-defined authority, the target folder is different from the system folder; responding to the click operation performed by the user for the sharing key, the system UI displays the sharing window, the sharing window comprises an icon of a plurality of sharing objects, the icon of the plurality of sharing objects comprises an icon of the target object; responding to the click operation performed by the user for the icon of the target object, the display module displays the operation interface of the target object; responding to the sharing operation performed by the user for the operation interface of the target object, the file manager sends the first file to the target object; the display module displays the interface of the file management APP, the interface of the file management APP comprises the target folder and the system folder; in response to the user selection operation of the target folder, the display module displays the first file.

16. An electronic device, wherein it comprises: processor, memory and interface; the processor, the memory and the interface are matched with each other, so that the electronic device executes the

following steps: displaying a first interface, the first interface comprises a received first file; receiving the first operation of the first file by the user, the first operation is used for downloading the first file; when the first file is downloaded, displaying the second interface, the second interface comprises a preview interface of the first file and a first banner notification, the first banner notification comprises a first control; in response to the second operation performed by the user for the first control, storing the first file to the catalog folder, the target folder is a folder with self-defined authority, the target folder is different from the system folder; displaying a third interface, the third interface is the interface of the file management application program APP, the third interface comprises the target folder and the system folder; responding to the third operation of the target folder by the user, displaying the first file.

17. The electronic device according to claim 16, wherein the electronic device further executes the following steps: receiving the fourth operation of the user for the second file, the fourth operation is used for downloading the second file, the second file and the first file are different; when the second file is downloaded, displaying a fourth interface, the fourth interface comprises a preview interface of the second file and a second banner notification; and storing the second file to the system file according to the default path.

18. The electronic device according to claim 16 or 17, wherein the electronic device further executes the method according to any one of claims 3 to 15 to 6.

19. A computer readable storage medium, wherein the computer program is stored in the computer readable storage medium, when the computer program is executed by the processor, the processor executes the method according to any one of claims 1 to 1 to 15.

20. The computer program product according to claim 20, wherein the computer program product comprises: a computer program product, A computer program code, when the computer program code is run on the electronic device, such that the electronic device executes the method according to any one of claims 1 to 15.

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PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L57	27	((("SWERDLOW") near3 ("Nick"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/11/02 08:57 PM
L58	1065	((("ZOOM") near3 ("VIDEO") near3 ("COMMUNICATIONS") near3 ("INC"))).AS,AANM.	(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	2023/11/02 08:57 PM
L59	195333	(H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166).cpc.	(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	2023/11/02 08:57 PM
L60	0	L57 AND ((conference NEAR preview$3) AND (graphical NEAR output) AND (join$3 near2 conference) AND (panel NEAR interface) AND (conference NEAR in NEAR progress)).clm.	(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	2023/11/02 08:59 PM
L61	0	L58 AND ((conference	(US-PGPUB; USPAT;	OR	ON	ON	2023/11/02

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 276 of 547

		NEAR preview$3) AND (graphical NEAR output) AND (join$3 near2 conference) AND (panel NEAR interface) AND (conference NEAR in NEAR progress)).clm.	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)				08:59 PM
L62	29	preview near2 participants WITH conference	(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	2023/11/02 08:59 PM
L63	264	preview WITH (participants member invitee) WITH (conference meeting) AND @ad<"20210910"	(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	2023/11/03 01:09 PM
L64	86	preview WITH (participants member invitee) WITH (conference meeting) WITH (item agenda content points document presentation) AND @ad<"20210910"	(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,	OR	ON	ON	2023/11/03 01:11 PM

			PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L65	5	preview WITH (participants member invitee) WITH (conference meeting) WITH (item agenda content points document presentation) AND preview SAME (prior before) WITH (conference meeting) WITH (start begin join joining) AND @ad<"20210910"	(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	2023/11/03 01:13 PM
L66	33	preview SAME (item agenda content points document presentation) SAME (participants member invitee) SAME (prior before) WITH (conference meeting) WITH (start begin join joining) AND @ad<"20210910"	(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	2023/11/03 01:21 PM
L67	47	preview SAME (item agenda content points document presentation) SAME (participants member invitee) SAME (prior before) SAME (conference meeting) WITH (start begin join joining) AND @ad<"20210910"	(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	2023/11/03 01:59 PM
L68	14	L67 NOT L66	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY,	OR	ON	ON	2023/11/03 01:59 PM

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			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)				
L69	47	preview SAME ((item agenda content points document presentation) SAME (participants member invitee attendee)) SAME (prior before) SAME (conference meeting) WITH (start begin join joining) AND @ad<"20210910"	(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	2023/11/03 02:01 PM
L70	53	preview SAME ((item agenda content points document presentation) SAME (participants member invitee attendee)) SAME (prior before) SAME (conference meeting) WITH (start begin join joining progress) AND @ad<"20210910"	(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	2023/11/03 02:02 PM
L71	6	L70 NOT L69	(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,	OR	ON	ON	2023/11/03 02:03 PM

			TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L72	50	preview SAME ((item agenda content points document presentation) AND (participants member invitee attendee)) SAME (prior before) SAME (conference meeting) WITH (start begin join joining progress) AND @ad<"20210910"	(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	2023/11/03 02:04 PM
L73	0	L72 NOT L70	(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	2023/11/03 02:05 PM
L74	5	"20160269504"	(US-PGPUB; USPAT)	OR	ON	ON	2023/11/03 02:25 PM
L75	1	"20230078792"	(US-PGPUB; USPAT)	OR	ON	ON	2023/11/03 05:29 PM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

Evaluating features of scientific **conferences**: A call for improvements

S Sarabipour, B Schwessinger, FN Mumoki… - BioRxiv, 2020 - biorxiv.org

… A recent survey carried out with **participants** of **conferences** … **without** applying for a visa for a short visit to attend a scientific … whole **content** of every slide, describe all images, and **include** …

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Security analysis of end-to-end encryption for zoom **meetings**

T Isobe, R Ito - IEEE access, 2021 - ieeexplore.ieee.org

… by **meeting participants** or insiders colluding with **meeting** … users for 30 days as a technical **preview**. E2EE of Zoom is based … We show that insiders **without** colluding with **participants** can …

☆ Save 99 Cite Cited by 17 Related articles All 6 versions

How to organize an online **conference**--Lessons learned from Cool Stars 20.5 (virtually cool)

HM Günther, JRA Davenport, S Wolk… - arXiv preprint arXiv …, 2021 - arxiv.org

… to organize a **conference** with > 500 **participants** again, more … **without** us doing any work in a phase of the **conference** … make loading the proximitybased **previews** easier. Each poster …

☆ Save 99 Cite Cited by 4 Related articles All 2 versions »

Perspectives: Creating Inclusive and Equitable Hybrid **Meeting** Experiences

JC Tang, K Inkpen, S Junuzovic, K Maliari… - Proceedings of the …, 2023 - dl.acm.org

… into a **meeting** room where the rest of the **participants** have … Notice there is no video **preview**, so **participants** in the room … that they were part of the **meeting without** additional video cues. …

☆ Save 99 Cite

Characterizing interactions **with** BIM tools and artifacts in building design coordination **meetings**

S Mehrbod, S Staub-French, N Mahyar… - Automation in Construction, 2019 - Elsevier

… with BIM tools on their own **without** the help of a BIM Coordinator… **meetings**, of which 32 **meetings** were held in our BIM **trailer**. … coordination **meetings**, recorded and observed **participants** …

☆ Save 99 Cite Cited by 50 Related articles

2014 National Humane Education **Conference Preview**

S Helmink, C Center - 2014 - aphe.org

… Reading the highlights that past **participants** shared reminds … attend the APHE **Membership Meeting** occurring on Thursday… Remaining current on the pedagogical and **content** research …

☆ Save 99 Cite Related articles All 2 versions »

Code space: touch+ air gesture hybrid interactions for supporting developer **meetings**

A Bragdon, R DeLine, K Hinckley… - … International Conference …, 2011 - dl.acm.org

… explore touch + air gesture hybrid interactions that **combine** … While many **meetings** today may **include** remote **participants**, … We considered an order-driven grammar (**without** speech input…

☆ Save 99 Cite Cited by 134 Related articles All 13 versions

Audio enriched links: web page **previews** for blind users

P Parente - … of the 6th international ACM SIGACCESS conference …, 2003 - dl.acm.org

… **without** explicit support from web servers. (Of course, our … , then a text link on the **Joining** Our Department page, and finally … the browsing task with **previews**, **participants** never followed a …

☆ Save 99 Cite Cited by 36 Related articles All 5 versions

… platform as an alternative for conducting international, multidisciplinary medical **conferences** during the novel COVID-19 pandemic: analysis of a **conference**

PJ Ko, SY Yu, JCH Chang, MJ Hsieh… - JMIR Medical …, 2021 - mededu.jmir.org

… sponsor exhibition hall and slide **preview** room were omitted. … speakers and moderators **joined** the **meeting** through Zoom. … education **without** imposing additional risks to the **participants**. …

☆ Save 99 Cite Cited by 4 Related articles All 12 versions »

Why do users like video? Studies of multimedia-supported collaboration

JC Tang, E Isaacs - Computer Supported Cooperative Work (CSCW), 1992 - Springer

… remote collaborator, -- a **preview** window of the video signal … a tripod **without** any camera operator present at the **meeting**. … **conferences**, lasting up to 15 seconds, but the **participants** did …

☆ Save 99 Cite Cited by 389 Related articles All 15 versions »

Doc code: RCEX
Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (01-22)
Approved for use through 05/31/2024. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	17472033	Filing Date	2021-09-10	Docket Number (if applicable)	ZOOM-164-C	Art Unit	2143
First Named Inventor	Nick Swerdlow			Examiner Name	P. D. Patel		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

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

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

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

☐ Other _____

☒ Enclosed

☐ Amendment/Reply

☒ Information Disclosure Statement (IDS)

☐ Affidavit(s)/ Declaration(s)

☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____
(Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

☒ **The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 25-0115

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

X Patent Practitioner Signature

Applicant Signature

PTO/SB/30EFS (01-22)
Approved for use through 05/31/2024. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	/Neil C. Maskeri/	Date (YYYY-MM-DD)	2023-08-23
Name	Neil C. Maskeri	Registration Number	61591

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

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

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 285 of 547

Electronic Patent Application Fee Transmittal

Application Number:	17472033
Filing Date:	10-Sep-2021
Title of Invention:	Previewing Conference Items Prior To Joining A Conference
First Named Inventor/Applicant Name:	Nick Swerdlow
Filer:	Neil C. Maskeri/Jessica Tumblin
Attorney Docket Number:	ZOOM-164-C

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

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

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
RCE- 1ST REQUEST	1801	1	1360	1360
		Total in USD ($)		**1360**

Electronic Acknowledgement Receipt

EFS ID:	48479895
Application Number:	17472033
International Application Number:	
Confirmation Number:	1532
Title of Invention:	Previewing Conference Items Prior To Joining A Conference
First Named Inventor/Applicant Name:	Nick Swerdlow
Customer Number:	177453
Filer:	Neil C. Maskeri/Jessica Tumblin
Filer Authorized By:	Neil C. Maskeri
Attorney Docket Number:	ZOOM-164-C
Receipt Date:	23-AUG-2023
Filing Date:	10-SEP-2021
Time Stamp:	13:38:27
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1360
RAM confirmation Number	E20238MD39058618
Deposit Account	250115
Authorized User	Jessica Tumblin

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

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

37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

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	Information Disclosure Statement (IDS) Form (SB08)	ZOOM164C_Information_Disclosure_Statement_Fillable_PDF_20230614.pdf	1263357 83933d8b1dd4823d03df1edf5fff13eb0b62634e	no	4
Warnings:					
Information:					
2	Request for Continued Examination (RCE)	ZOOM164C_Request_for_Continued_Examination_Fillable_PDF_20230823.pdf	1666942 dc89bf5c26008906a83996e68ee8bf51022928ad	no	3
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	38040 95c45e6bc47af6aa32b9c9d4672df9d4e72fa3c4	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	2968339		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

PTO/SB/08a (01-22)
Approved for use through 05/31/2024. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17472033
Filing Date	2021-09-10
First Named Inventor	Nick Swerdlow
Art Unit	2143
Examiner Name	P. D. Patel
Attorney Docket Number	ZOOM-164-C

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8437461		2013-05-07	Gartner et al.	
	2	9146115		2015-09-29	Geffner et al.	

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

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20190392395	A1	2019-12-26	Valliani, Jamil Amirali	
	2	20100198646	A1	2010-08-05	Mikan et al.	
	3	20100274855	A1	2010-10-28	Wassingbo, Tomas Karl-Axel	
	4	20120185534	A1	2012-07-19	ZIMMET et al.	

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

FOREIGN PATENT DOCUMENTS Remove

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17472033
	Filing Date	2021-09-10
	First Named Inventor	Nick Swerdlow
	Art Unit	2143
	Examiner Name	P. D. Patel
	Attorney Docket Number	ZOOM-164-C

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

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		

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

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

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

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17472033
	Filing Date	2021-09-10
	First Named Inventor	Nick Swerdlow
	Art Unit	2143
	Examiner Name	P. D. Patel
	Attorney Docket Number	ZOOM-164-C

CERTIFICATION STATEMENT

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

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

OR

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

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Neil C. Maskeri/	Date (YYYY-MM-DD)	2023-08-23
Name/Print	Neil C. Maskeri	Registration Number	61,591

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

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/472,033	09/10/2021	Nick Swerdlow	ZOOM-164-C	1532

177453 7590 08/18/2023

Zoom Video Communications, Inc. at Young Basile
3001 West Big Beaver Rd., Ste. 624
Troy, MI 48084

EXAMINER	
PATEL, PARMANAND D	

ART UNIT	PAPER NUMBER
2143	

NOTIFICATION DATE	DELIVERY MODE
08/18/2023	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):

docketing@youngbasile.com

Advisory Action Before the Filing of an Appeal Brief	Application No. 17/472,033	Applicant(s) Swerdlow, Nick	
	Examiner PARMANAND D PATEL	Art Unit 2143	AIA (FITF) Status Yes

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

THE REPLY FILED 02 August 2023 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

NO NOTICE OF APPEAL FILED

1. ☑ The reply was filed after a final rejection. No Notice of Appeal has been filed. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114 if this is a utility or plant application. Note that RCEs are not permitted in design applications. The reply must be filed within one of the following time periods:
   a) ☐ The period for reply expires ____ months from the mailing date of the final rejection.
   b) ☑ The period for reply expires on: (1) the mailing date of this Advisory Action; or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.
   c) ☐ A prior Advisory Action was mailed more than 3 months after the mailing date of the final rejection in response to a first after-final reply filed within 2 months of the mailing date of the final rejection.The current period for reply expires ____ months from the mailing date of *the prior Advisory Action* or SIX MONTHS from the mailing date of the final rejection, whichever is earlier.
   Examiner Note: If box 1 is checked, check either box (a), (b) or (c). ONLY CHECK BOX (b) WHEN THIS ADVISORY ACTION IS THE FIRST RESPONSE TO APPLICANTS FIRST AFTER-FINAL REPLY WHICH WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. ONLY CHECK BOX (c) IN THE LIMITED SITUATION SET FORTH UNDER BOX (c). See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) or (c) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37CFR 41.37(a).

AMENDMENTS

3. ☑ The proposed amendments filed after a final rejection, but prior to the date of filing a brief, will not be entered because
   a) ☑ They raise new issues that would require further consideration and/or search (see NOTE below);
   b) ☐ They raise the issue of new matter (see NOTE below);
   c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
   d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.
   NOTE: Claims 1, 9 and 16 requires further search and consideration (See 37 CFR 1.116 and 41.33(a)).
4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
5. ☐ Applicant's reply has overcome the following rejection(s): _____
6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
7. ☑ For purposes of appeal, the proposed amendment(s):(a) ☑ will not be entered, or (b) ☐ will be entered, and an explanation of how the new or amended claims would be rejected is provided below or appended.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____
9. ☐ The affidavit or other evidence filed after final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
10. ☐ The affidavit or other evidence filed after the date of filing the Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
11. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

12. ☑ The request for reconsideration has been considered but does NOT place the application in condition for allowance because: Claims 1, 9 and 16 requires further search and consideration.
13. ☐ Note the attached Information *Disclosure Statement*(s). (PTO/SB/08) Paper No(s). _____
14. ☑ Other: See PTO-2323 and interview summary.

STATUS OF CLAIMS

15. The status of the claim(s) is (or will be) as follows:
    Claim(s) allowed:_____.
    Claim(s) objected to:_____.
    Claim(s) rejected:1-20.
    Claim(s) withdrawn from consideration:_____.

/PARMANAND D PATEL/ Examiner, Art Unit 2143	/JENNIFER N WELCH/ Supervisory Patent Examiner, Art Unit 2143

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 295 of 547

Examiner-Initiated Interview Summary	**Application No.** 17/472,033	**Applicant(s)** Swerdlow, Nick		
	Examiner PARMANAND D PATEL	**Art Unit** 2143	**AIA (First Inventor to File) Status** Yes	**Page** 1 of 1

All Participants (applicant, applicants representative, PTO personnel)	**Title**	**Type**
PARMANAND D PATEL	Examiner	Telephonic
Meil Maskeri	Attorney	

Date of Interview: 11 August 2023

Issues Discussed:

Proposed Amendment(s)

In response to AFCP 2.0 examiner initiated an interview examiner and applicant discussed amended claim 1 limitation where applicant given clarification of "first portion and second portion and second graphical output" first portion is icon of conference item and second portion is when icon expanded in the panel, second graphical output is list of participants. Also, discussed main invention is user preview or peaking into already progress conference without joining. Examiner need more time to search prior art based on the discussion,

/PARMANAND D PATEL/ Examiner, Art Unit 2143	

Applicant is reminded that a complete written statement as to the substance of the interview must be made of record in the application file. It is the applicants responsibility to provide the written statement, unless the interview was initiated by the Examiner and the Examiner has indicated that a written summary will be provided. See MPEP 713.04
Please further see:
MPEP 713.04
Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews, paragraph (b)
37 CFR § 1.2 Business to be transacted in writing

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 296 of 547

AFCP 2.0 Decision

Application No.	Applicant(s)	
17/472,033	Swerdlow, Nick	
Examiner	**Art Unit**	**AIA (FITF) Status**
PARMANAND D PATEL	2143	Yes

This is in response to the After Final Consideration Pilot request filed 02 August 2023.

1. **Improper Request** – The AFCP 2.0 request is improper for the following reason(s) and the after final amendment submitted with the request will be treated under pre-pilot procedure.

   ☐ An AFCP 2.0 request form PTO/SB/434 (or equivalent document) was not submitted.

   ☐ A non-broadening amendment to at least one independent claim was not submitted.

   ☐ The request is not the first proper AFCP 2.0 request submitted in response to the most recent final rejection.

   ☐ Other: _____

2. **Proper Request**

   A. After final amendment submitted with the request will not be treated under AFCP 2.0.
   The after final amendment cannot be reviewed and a search conducted within the guidelines of the pilot program.

   ☐ The after final amendment will be treated under pre-pilot procedure.

   B. Updated search and/or completed additional consideration.
   The examiner performed an updated search and/or completed additional consideration of the after final amendment within the time authorized for the pilot program. The result(s) of the updated search and/or completed additional consideration are:

   ☐ 1. All of the rejections in the most recent final Office action are overcome and a Notice of Allowance is issued herewith.

   ☐ 2. The after final amendment would not overcome all of the rejections in the most recent final Office action . See attached interview summary for further details.

   ☐ 3. The after final amendment was reviewed, and it raises a new issue(s). See attached interview summary for further details.

   ☑ 4. The after final amendment raises new issues, but would overcome all of the rejections in the most recent final Office action. A decision on determining allowability could not be made within the guidelines of the pilot. See attached interview summary for further details, including any newly discovered prior art.

   ☐ 5. Other: _____

   Examiner Note: Please attach an interview summary when necessary as described above.

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 297 of 547

DO NOT ENTER: /P.D.P/

08/11/2023

Atty. Doc. No. ZOOM-164-C PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Zoom Video Communications, Inc.	
First Named Inventor:	Nick Swerdlow	
Serial Number:	17/472,033	
Filing Date:	September 10, 2021	
Examiner/Art Unit:	Parmanand D. Patel / 2143	Conf. No. 1532
Title:	Previewing Conference Items Prior to Joining a Conference	

AMENDMENT AFTER FINAL

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

Commissioner:

In response to the final Office Action dated June 9, 2023, please enter the remarks and amendments, if any, in the above-identified patent application as indicated below.

If any extensions of time are needed for timely acceptance of this reply and associated papers, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment from Deposit Account No. 25-0115. If any other fees must be paid in connection with this reply, Applicant authorizes payment from Deposit Account No. 25-0115.

☐ Amendments to the Abstract.

☐ Amendments to the Specification.

☒ Amendments to the Claims.

☐ Amendments to the Drawings.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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Alexandria, Virginia 22313-1450
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/472,033	09/10/2021	Nick Swerdlow	ZOOM-164-C	1532

177453 7590 08/08/2023

Zoom Video Communications, Inc. at Young Basile
3001 West Big Beaver Rd., Ste. 624
Troy, MI 48084

EXAMINER	
PATEL, PARMANAND D	

ART UNIT	PAPER NUMBER
2143	

NOTIFICATION DATE	DELIVERY MODE
08/08/2023	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):

docketing@youngbasile.com

Applicant-Initiated Interview Summary	**Application No.** 17/472,033	**Applicant(s)** Swerdlow, Nick		
	Examiner PARMANAND D PATEL	**Art Unit** 2143	**AIA (First Inventor to File) Status** Yes	**Page** 1 of 1

All Participants (applicant, applicants representative, PTO personnel)	**Title**	**Type**
PARMANAND D PATEL	Examiner	Telephonic
Neil Maskeri	Attorney	

Date of Interview: 01 August 2023

Issues Discussed:

Proposed Amendment(s)

Applicant discussed claim invention that user preview currently in-progress meeting to determine joining to the in-progress meeting. Examiner explained that proposed amendment is very broad therefore needed to further amend the claim based on the discussion that user actually without joining to the meeting able to preview the in-progress meeting to see what is going on. No agreement reached and examiner search upon official response receive.

☑ Attachment

/PARMANAND D PATEL/ Examiner, Art Unit 2143	/JENNIFER N WELCH/ Supervisory Patent Examiner, Art Unit 2143

Applicant is reminded that a complete written statement as to the substance of the interview must be made of record in the application file. It is the applicants responsibility to provide the written statement, unless the interview was initiated by the Examiner and the Examiner has indicated that a written summary will be provided. See MPEP 713.04
Please further see:
MPEP 713.04
Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews, paragraph (b)
37 CFR § 1.2 Business to be transacted in writing

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 300 of 547

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Zoom Video Communications, Inc.
First Named Inventor:	Nick Swerdlow
Serial Number:	17/472,033
Filing Date:	September 10, 2021
Examiner/Art Unit:	Parmanand D. Patel / 2143 Conf. No. 1532
Title:	Previewing Conference Items Prior to Joining a Conference

INTERVIEW AGENDA

Dear Examiner Patel:

A proposed agenda for the telephonic interview scheduled for August 1, 2023 at 11:00 AM ET is provided below.

1. Discussion of a proposed amendment to claim 1 in view of the 35 U.S.C. § 103 rejection.

Proposed Amendment:

1. (Currently Amended) A method for conference previewing, comprising:

obtaining a conference item associated with a conference in progress;

prior to a client device connecting to the conference in progress:

transmitting, to ~~a~~ the client device, a first graphical output for display on a panel interface associated with the conference in progress, the panel interface having a first portion and a second portion, the first portion including an indicator of the conference item;

~~prior to the client device joining the conference in progress:~~

receiving, at a server, a request from the client device to view the conference item; and

transmitting, from the server, a second graphical output to the client device based on the request to display the conference item on the second portion of the panel interface.

Respectfully submitted,

YOUNG BASILE
HANLON & MACFARLANE, P.C.

/Neil C. Maskeri/

Neil C. Maskeri
Registration No. 61,591
T: (248) 649-3333
F: (248) 649-3338

3001 West Big Beaver Road, Ste. 624
Troy, Michigan 48084-3107

Doc Code: A.NE.AFCP
Document Description: After Final Consideration Program Request

PTO/SB/434 (3-22)

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

Practitioner Docket No.:	Application No.:	Filing Date:
ZOOM-164-C	17/472,033	September 10, 2021

First Named Inventor:	Title:
Nick Swerdlow	Previewing Conference Items Prior To Joining A Conference

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

1. The above-identified application is (i) an original utility, plant, or design nonprovisional application filed under 35 U.S.C. 111(a) [a continuing application (*e.g.*, a continuation or divisional application) is filed under 35 U.S.C. 111(a) and is eligible under (i)], or (ii) an international application that has entered the national stage in compliance with 35 U.S.C. 371(c).

2. The above-identified application contains an outstanding final rejection.

3. Submitted herewith is a response under 37 CFR 1.116 to the outstanding final rejection. The response includes an amendment to at least one independent claim, and the amendment does not broaden the scope of the independent claim in any aspect.

4. This certification and request for consideration under AFCP 2.0 is the only AFCP 2.0 certification and request filed in response to the outstanding final rejection.

5. Applicant is willing and available to participate in any interview requested by the examiner concerning the present response.

6. This certification and request is being filed electronically using the USPTO's patent electronic filing system.

7. Any fees that would be necessary consistent with current practice concerning responses after final rejection under 37 CFR 1.116, *e.g.*, extension of time fees, are being concurrently filed herewith. [There is no additional fee required to request consideration under AFCP 2.0.]

8. By filing this certification and request, applicant acknowledges the following:

- Reissue applications and reexamination proceedings are not eligible to participate in AFCP 2.0.
- The examiner will verify that the AFCP 2.0 submission is compliant, *i.e.*, that the requirements of the program have been met (see items 1 to 7 above). For compliant submissions:
  - The examiner will review the response under 37 CFR 1.116 to determine if additional search and/or consideration (i) is necessitated by the amendment and (ii) could be completed within the time allotted under AFCP 2.0. If additional search and/or consideration is required but cannot be completed within the allotted time, the examiner will process the submission consistent with current practice concerning responses after final rejection under 37 CFR 1.116, *e.g.*, by mailing an advisory action.
  - If the examiner determines that the amendment does not necessitate additional search and/or consideration, or if the examiner determines that additional search and/or consideration is required and could be completed within the allotted time, then the examiner will consider whether the amendment places the application in condition for allowance (after completing the additional search and/or consideration, if required). If the examiner determines that the amendment does not place the application in condition for allowance, then the examiner will contact the applicant and request an interview.
    - The interview will be conducted by the examiner, and if the examiner does not have negotiation authority, a primary examiner and/or supervisory patent examiner will also participate.
    - If the applicant declines the interview, or if the interview cannot be scheduled within ten (10) calendar days from the date that the examiner first contacts the applicant, then the examiner will proceed consistent with current practice concerning responses after final rejection under 37 CFR 1.116.

Signature	Date	Practitioner Registration No.
/Neil C. Maskeri/	August 2, 2023	61,591
Name (Print/Typed)	**Telephone Number**	
Neil C. Maskeri	(248) 649-3333	

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

☐ * Total of 1 forms are submitted.

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 303 of 547

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Zoom Video Communications, Inc.
First Named Inventor:	Nick Swerdlow
Serial Number:	17/472,033
Filing Date:	September 10, 2021
Examiner/Art Unit:	Parmanand D. Patel / 2143 Conf. No. 1532
Title:	Previewing Conference Items Prior to Joining a Conference

AMENDMENT AFTER FINAL

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

Commissioner:

In response to the final Office Action dated June 9, 2023, please enter the remarks and amendments, if any, in the above-identified patent application as indicated below.

If any extensions of time are needed for timely acceptance of this reply and associated papers, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment from Deposit Account No. 25-0115. If any other fees must be paid in connection with this reply, Applicant authorizes payment from Deposit Account No. 25-0115.

☐ Amendments to the Abstract.

☐ Amendments to the Specification.

☒ Amendments to the Claims.

☐ Amendments to the Drawings.

Listing of the Claims:

1. (Currently Amended) A method for ~~conference~~ previewing a conference in progress, comprising:

obtaining a conference item associated with ~~a~~ the conference in progress;

prior to a client device connecting to the conference in progress:

transmitting, to ~~a~~ the client device, a first graphical output for display on a panel interface associated with the conference in progress, the panel interface having a first portion and a second portion, the first portion including an indicator of the conference item;

~~prior to the client device joining the conference in progress:~~

receiving, at a server, a request from the client device to view the conference item; and

transmitting, from the server, a second graphical output to the client device based on the request to display the conference item on the second portion of the panel interface prior to the client device connecting to the conference in progress.

2. (Original) The method of claim 1, wherein the conference item is an editable document.

3. (Previously Presented) The method of claim 1, wherein the conference item is an editable document, the method comprising:

transmitting a notification to participant client devices, wherein the notification indicates that the editable document has been modified.

4. (Original) The method of claim 1, wherein the conference item is at least one of an agenda, a real-time transcript, a downloadable file, or a real-time presentation.

5. (Previously Presented) The method of claim 1, comprising:

detecting an initiation of a screen share in the conference in progress;

determining that a substantive portion of the conference in progress has started based on the screen share, the substantive portion of the conference in progress associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference in progress has started.

6. (Previously Presented) The method of claim 1, comprising:

detecting a voice in an audio portion of the conference in progress;

converting the voice to text;

comparing the text to the conference item, wherein the conference item is an agenda;

determining that a substantive portion of the conference in progress has started based on the comparison, the substantive portion of the conference in progress associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference in progress has started.

7. (Previously Presented) The method of claim 1, wherein the display of the client device includes a panel interface associated with the conference in progress, wherein the panel interface includes a first portion and a second portion.

8. (Previously Presented) The method of claim 1, wherein the display of the client device includes a panel interface associated with the conference in progress, wherein the panel interface includes a first portion and a second portion, and wherein the first graphical output is displayed on the first portion of the panel interface and the second graphical output is displayed on the second portion of the panel interface.

9. (Currently Amended) A system for ~~conference~~ previewing a conference in progress, comprising:

a server configured to:

obtain a conference item associated with ~~a~~ the conference in progress; and

transmit a first graphical output based on the conference item prior to a client device connecting to the conference in progress; ~~and~~

a client device configured to display the first graphical output on a panel interface associated with the conference prior to the client device connecting to the conference in progress:, the panel interface having a first portion and a second portion, the first portion including an indicator of the conference item;

prior to the client device joining the conference in progress, the server configured to:

receive a request from the client device to view the conference item; and

transmit a second graphical output to the client device based on the request; and

prior to the client device joining the conference in progress, the client device configured to:

display the conference item on the second portion of the panel interface.

10. (Previously Presented) The system of claim 9, wherein the server is configured to:

detect a voice in an audio portion of the conference in progress;

convert the voice to text;

compare the text to the conference item, wherein the conference item is an agenda;

determine that a substantive portion of the conference in progress has started based on the comparison, the substantive portion of the conference in progress associated with an agenda item; and

transmit a notification to the client device that indicates that the substantive portion of the conference in progress has started.

11. (Previously Presented) The system of claim 9, wherein the server is configured to:

detect an initiation of a screen share in the conference in progress;

determine that a substantive portion of the conference in progress has started based on the screen share, the substantive portion of the conference in progress associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference in progress has started.

12. (Original) The system of claim 9, wherein the indicator is a visual indicator that is a graphical representation of the conference item.

13. (Previously Presented) The system of claim 9, wherein the indicator is a visual indicator that is a graphical representation of the conference item, and wherein the visual indicator is at least one of an icon, a thumbnail, or a text representation of the conference item.

14. (Original) The system of claim 9, wherein the conference item is an editable document, the server configured to:

transmit a notification to participant client devices, wherein the notification indicates that the editable document has been modified.

15. (Original) The system of claim 9, wherein the conference item is at least one of an agenda, a real-time transcript, a downloadable file, or a real-time presentation.

16. (Currently Amended) A non-transitory computer-readable storage device for previewing a conference in progress, the non-transitory computer-readable storage device including program instructions that, when executed by a processor, cause the processor to perform operations, the operations comprising:

obtaining a conference item associated with ~~a~~ the conference in progress;

prior to a client device connecting to the conference in progress:

transmitting a first graphical output for display on a panel interface associated with the conference in progress, the panel interface having a first portion and a second portion, the first portion including an indicator of the conference item;

~~prior to the client device joining the conference in progress:~~

receiving, at a server, a request from the client device to view the conference item; and

transmitting, from the server, a second graphical output to the client device to display the conference item on the second portion of the panel interface prior to the client device connecting to the conference in progress.

17. (Previously Presented) The non-transitory computer-readable storage device of claim 16, wherein the program instructions, when executed by the processor, cause the processor to perform operations, the operations comprising:

detecting an initiation of a screen share in the conference in progress;

determining that a substantive portion of the conference in progress has started based on the screen share, the substantive portion of the conference in progress associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference in progress has started.

18. (Previously Presented) The non-transitory computer-readable storage device of claim 16, wherein the program instructions, when executed by the processor, cause the processor to perform operations, the operations comprising:

detecting a voice in an audio portion of the conference in progress;

converting the voice to text;

comparing the text to the conference item, wherein the conference item is an agenda;

determining that a substantive portion of the conference in progress has started based on the comparison, the substantive portion of the conference in progress associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference in progress has started.

19. (Original) The non-transitory computer-readable storage device of claim 16, wherein the indicator is a visual indicator that is a graphical representation of the conference item.

20. (Previously Presented) The non-transitory computer-readable storage device of claim 19, wherein the indicator is a visual indicator that is a graphical representation of the conference item, and wherein the visual indicator is at least one of an icon, a thumbnail, or a text representation of the conference item.

REMARKS

In response to the final Office Action dated June 9, 2023, Applicant amends claims 1, 9, and 16. No new matter is added. After entry of this Amendment, claims 1-20 are pending in the Application. Reconsideration of the Application as amended is respectfully requested in view of these remarks.

Applicant respectfully submits that this Amendment is suitable for entry after final rejection as it places all claims in condition for allowance, adds no new claims without canceling a finally rejected claim, and/or requires little or no new consideration. Alternatively, it places the Application in better condition for appeal.

Applicant respectfully submits this Amendment conforms to the requirements of the After Final Consideration Pilot Program 2.0 and therefore submits Form PTO/SB/434 concurrent with this Amendment. Applicant submits that this Amendment places the Application in condition for allowance.

Summary of Examiner Interview

Applicant thanks the Examiner for the telephone interview conducted on August 1, 2023. The attendees were Examiner Parmanand D. Patel and the Applicant's representative, Neil C. Maskeri (Registration No. 61,591). During the interview, a proposed amendment was discussed. An agreement was not reached.

Rejections under 35 U.S.C. §103

Claims 1-2, 4, 7-9, 12-13, 15-16, and 19-20 are rejected under 35 U.S.C. § 103 as being unpatentable over U.S. Patent Application Publication No. 2010/0037151 to Ackerman et al. ("Ackerman") in view of U.S. Patent Application Publication No. 2011/0161834 to Shadfar et al. ("Shadfar").

Regarding claim 1, Ackerman fails to disclose or suggest at least "prior to the client device joining the conference in progress: transmitting, to the client device, a first graphical output for display on a panel interface associated with the conference in progress, the panel interface having a first portion and a second portion, the first portion including an indicator of the conference item," as claimed. The Office Action admits that the resources in Ackerman "may

be uploaded before or during the conference for display on participant computer stations during the meeting." (See Office Action, page 3). Ackerman, therefore, requires the participant computer stations to be connected to the meeting in order to display the resources at the participant computer stations. Accordingly, Ackerman fails to disclose or suggest at least "prior to the client device joining the conference in progress: transmitting, to the client device, a first graphical output for display on a panel interface associated with the conference in progress, the panel interface having a first portion and a second portion, the first portion including an indicator of the conference item," as claimed. In addition, Ackerman is silent with respect to at least transmitting a second graphical output to the client device "to display the conference item on the second portion of the panel interface prior to the client device connecting to the conference in progress," as claimed.

Shadfar is directed to recreating a presentation of a past conference. In Shadfar, the presentation has occurred in the past, which is distinguishable from the "conference in progress," as claimed. In addition, since the conference in Shadfar occurred in the past, Shadfar fails to disclose or suggest "prior to the client device joining the conference in progress: transmitting, to the client device, a first graphical output for display on a panel interface associated with the conference in progress, the panel interface having a first portion and a second portion, the first portion including an indicator of the conference item," as claimed. In addition, Shadfar is silent with respect to at least transmitting a second graphical output to the client device "to display the conference item on the second portion of the panel interface prior to the client device connecting to the conference in progress," as claimed. Shadfar, therefore, fails to overcome the deficiencies of Ackerman. Accordingly, the Applicant submits that claim 1 is allowable over the cited references for at least these reasons.

Claims 9 and 16 include substantially similar elements as claim 1. Accordingly, the Applicant submits that claims 9 and 16 are allowable over the cited references for at least the same reasons provided above.

Claims 3 and 14 are rejected under 35 U.S.C. § 103 as being unpatentable over Ackerman in view of Shadfar as applied to claims 1 and 9 above, and in further view of U.S. Patent Application Publication No. 2015/0281149 to Masterson et al. ("Masterson").

Regarding claims 3 and 14, Masterson fails to overcome the deficiencies of Ackerman and Shadfar. Accordingly, the Applicant submits that claims 3 and 14 are allowable over the cited references for at least the same reasons provided above.

Claims 5, 11, and 17 are rejected under 35 U.S.C. § 103 as being unpatentable over Ackerman in view of Shadfar as applied to claims 1, 9, and 16 above, and in further view of U.S. Patent No. 11,245,735 to Kwatra et al. ("Kwatra").

Regarding claims 5, 11, and 17, Kwatra fails to overcome the deficiencies of Ackerman and Shadfar. Accordingly, the Applicant submits that claims 5, 11, and 17 are allowable over the cited references for at least the same reasons provided above.

Claims 6, 10, and 18 are rejected under 35 U.S.C. § 103 as being unpatentable over Ackerman in view of Shadfar as applied to claims 1, 9, and 16 above, and in further view of U.S. Patent No. 11,488,634 to Decrop et al. ("Decrop").

Regarding claims 6, 10, and 18, Decrop fails to overcome the deficiencies of Ackerman and Shadfar. Accordingly, the Applicant submits that claims 6, 10, and 18 are allowable over the cited references for at least the same reasons provided above.

Claims 2-8 are dependent upon claim 1. Claims 10-15 are dependent upon claim 9. Claims 17-20 are dependent upon claim 16. Applicant accordingly requests that the rejection of claims 1-20 under 35 U.S.C. § 103 be reconsidered and withdrawn.

Conclusion

It is submitted that this Amendment has antecedent basis in the application as originally filed, including the specification, claims and drawings, and that this Amendment does not add any new subject matter to the application. It is submitted that this Amendment places the application in suitable condition for allowance, notice of which is requested.

The Examiner is invited to contact the undersigned at the telephone number listed below if the Examiner believes an Examiner's amendment would expedite prosecution of the Application.

Respectfully submitted,

YOUNG BASILE
HANLON & MACFARLANE, P.C.

/Neil C. Maskeri/

Neil C. Maskeri
Registration No. 61,591
T: (248) 649-3333
F: (248) 649-3338

3001 West Big Beaver Road, Ste. 624
Troy, Michigan 48084-3107

Electronic Acknowledgement Receipt

EFS ID:	48382496
Application Number:	17472033
International Application Number:	
Confirmation Number:	1532
Title of Invention:	Previewing Conference Items Prior To Joining A Conference
First Named Inventor/Applicant Name:	Nick Swerdlow
Customer Number:	177453
Filer:	Neil C. Maskeri/Jessica Tumblin
Filer Authorized By:	Neil C. Maskeri
Attorney Docket Number:	ZOOM-164-C
Receipt Date:	02-AUG-2023
Filing Date:	10-SEP-2021
Time Stamp:	10:32:10
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	After Final Consideration Program Request	Certification_and_Request_for_Consideration_Under_the_After_Final_Consideration.pdf	26985 b18587b761b33e884351409773328014490109 7c	no	1

Warnings:

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 315 of 547

Information:					
2		ZOOM164C_Amd_20230609.pdf	67369 8c0378931d207974d61bcb4f0d92350e83fc93db	yes	11

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Response After Final Action	1	1
	Claims	2	7
	Applicant Arguments/Remarks Made in an Amendment	8	11

Warnings:	
Information:	
Total Files Size (in bytes):	94354

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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 17/472,033	Filing Date 09/10/2021	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) 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), (i), 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 $100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $480 =	
☐ 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	08/02/2023	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $480 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(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".	/MYRTLE B LEIGH/
*** 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.**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/472,033	09/10/2021	Nick Swerdlow	ZOOM-164-C	1532

177453 7590 06/09/2023

Zoom Video Communications, Inc. at Young Basile
3001 West Big Beaver Rd., Ste. 624
Troy, MI 48084

EXAMINER	
PATEL, PARMANAND D	

ART UNIT	PAPER NUMBER
2143	

NOTIFICATION DATE	DELIVERY MODE
06/09/2023	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):

docketing@youngbasile.com

Office Action Summary	Application No. 17/472,033	Applicant(s) Swerdlow, Nick	
	Examiner PARMANAND D PATEL	Art Unit 2143	AIA (FITF) Status Yes

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

Period for Reply

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

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

Status

1)☑ Responsive to communication(s) filed on 02/20/2023.

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

2a)☑ This action is **FINAL.** 2b) ☐ This action is non-final.

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

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1-20 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-20 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

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

Application Papers

10)☐ The specification is objected to by the Examiner.

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

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

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

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

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

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

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date 12/14/2022, 03/02/2023 and 05/11/2023.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

Zoom Communications, Inc. v. Ricoh Company, Ltd.
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DETAILED ACTION

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

Response to Amendment

2. The amendment filed 02/20/2023 has been entered. Claims 1-20 are pending for examination.

Information Disclosure Statement

3. The information disclosure statement (IDSs) submitted on 12/14/2022, 03/02/2023 and 05/11/2023 in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 103

4. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

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

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1, 2, 4, 7-9, 12-13, 15-16 and 19-20 are rejected under 35 U.S.C. 103 as being unpatentable over Ackerman et al. (US Pub 2010/0037151) hereinafter Ackerman in view of Shadfar et al. (US Pub 2011/0161834) hereinafter Shadfar.

Regarding claim 1, Ackerman teaches, a method for conference previewing, comprising:

- obtaining a conference item associated with a conference in progress (Ackerman; server obtain the conference content when presenter upload conference materials into the server and conference materials includes, slide presentation, text documents, graphical images, photos, spreadsheets, and so forth, in a wide range of file formats supported by the system. These resources may be uploaded before or during a conference for display on participant computer stations during the meeting; paragraph 134);
- transmitting, to a client device, a first graphical output for display on a panel interface associated with the conference in progress, the panel interface having a first portion and a second portion, the first portion including an indicator of the conference item (Ackerman; as shown in figure 2, the system is configured to allow the presenter to release control of the slide presentation, which causes an instance of the slide presentation to be downloaded from the conference server to the attendee computer station; paragraph 143, also, as shown in figure 4, panel

interface shows plurality of regions networking area 56 includes, participants list, text chat pane and attachment pane and content presentation area 62a-c; paragraph 139).

- transmitting, from the server, a second graphical output to the client device based on the request to display the conference item on the second portion of the panel interface (Ackerman; as presenter release control of the presentation, presentation to be downloaded from server and presentation to be displayed on the attendee computer system as attendee sector 75 (second portion of the panel interface); paragraph 143).

Ackerman does not teach expressly,

- prior to the client device joining the conference in progress: receiving, at a server, a request from the client device to view the conference item.

However, Shadfar teaches,

- prior to the client device joining the conference in progress (Shadfar; prior to join or start conference, presenter sends presentation to server to store presentation; paragraph 59): receiving, at a server, a request from the client device to view the conference item (Shadfar; presenter send the presentation to server and server store presentation, presenter requesting server start presentation, and server sends message to all clients 104 to load presentation (during the meeting start, presenter requesting to server to start presentation and server sending message to all clients devices to load presentation to view); paragraph 59).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Shadfar technique of requesting to server to view the presentation to modify server obtain the conference content materials and sending to

attendee's device to display at particular region of Ackerman. It would have been motivated to make such combination to efficiently and quickly transmitted content to other users to well organized and improve presentation user interface.

Regarding claim 2, Ackerman and Shadfar teaches all of the claim 1. Ackerman further teaches,

- wherein the conference item is an editable document (Ackerman; presenter/host can modify the document in real time (document editable); paragraph 86).

Regarding claim 4, Ackerman and Shadfar teaches all of the claim 1. Ackerman further teaches,

- wherein the conference item is at least one of an agenda, a real-time transcript, a downloadable file, or a real-time presentation (Ackerman; participants views the conference during real time includes audio/video, PowerPoint, document manipulation; paragraph 131)

Regarding claim 7, Ackerman and Shadfar teaches all of the claim 1. Ackerman further teaches,

- wherein the display of the client device includes a panel interface associated with the conference in progress, wherein the panel interface includes a first portion and a second portion (Ackerman; as shown in figure 4, conference display shown two portions content sectors 62a-b and 62c-n where content displays and another area networking area 56 where participant list pane and other pane

where user perform text chat communication and attachment (conference display having two panel interface); paragraphs 139-140)

Regarding claim 8, Ackerman and Shadfar teaches all of the claim 1. Ackerman further teaches,

- wherein the display of the client device includes a panel interface associated with the conference in progress, wherein the panel interface includes a first portion and a second portion (Ackerman; as shown in figure 4, conference display shown two portions content sectors 62a-b and 62c-n where content displays and another area networking area 56 where participant list pane and other pane where user perform text chat communication and attachment (conference display having two panel interface); paragraphs 139-140), and wherein the first graphical output is displayed on the first portion of the panel interface and the second graphical output is displayed on the second portion of the panel interface (Ackerman; as shown in figure 4, conference display shown two portions content sectors 62a-b and 62c-n where content displays (first portion where content display) and another area networking area 56 where participant list pane and other pane where user perform text chat communication and attachment (as second portion where participants list, test chat and attachments pane display); paragraphs 139-140)

Claims 9 is system claim that corresponding to method claim 1. Therefore, claim is rejected for the same reason as claim 1 above.

Regarding claim 12, Ackerman and Shadfar teaches all of the claim 9. Ackerman further teaches,

- wherein the indicator is a visual indicator that is a graphical representation of the conference item (Ackerman; as shown in figure 4, a panel 62b devoted to present slide presentation, spreadsheet by presenter (presentation document such as spreadsheet as conference item); paragraph 139).

Regarding claim 13, Ackerman and Shadfar teaches all of the claim 9. Ackerman further teaches,

- wherein the indicator is a visual indicator that is a graphical representation of the conference item (Ackerman; as shown in figure 4, wherein, the presentation interface sector 62b where presenter's conference item displays as spreadsheet or slide presentation; paragraph 139), and wherein the visual indicator is at least one of an icon, a thumbnail, or a text representation of the conference item (Ackerman; as shown in figure 4, a panel 62b devoted to present slide presentation, spreadsheet by presenter (presentation document such as spreadsheet as conference item); paragraph 139).

Claim 15 is system claim that corresponding to method claim 4. Therefore, claim is rejected for the same reason as claim 4 above.

Claim 16 is a non-transitory computer-readable storage device claim that corresponding to method claim 1. Therefore, claim is rejected for the same reason as claim 1 above. In addition, Shadfar teaches, A non-transitory computer-readable storage device including program instructions that, when executed by a processor (Shadfar; fig. 8; processor 836), cause the processor to perform operations, the operations comprising:

Claims 19-20: they are non-transitory computer-readable storage device claim that corresponding to method claims 12-13. Therefore, they are rejected for the same reason as claims 12-13 above.

7. Claims 3 and 14 are rejected under 35 U.S.C. 103 as being unpatentable over Ackerman et al. (US Pub 2010/0037151) hereinafter Ackerman in view of Shadfar et al. (US Pub 2011/0161834) hereinafter Shadfar as applied to claims 1 and 9 above, and further in view of Masterson et al. (US Pub 2015/0281149) hereinafter Masterson.

Regarding claim 3, Ackerman and Shadfar teaches all of the claim 1. Ackerman and Shadfar do not teach expressly,

- transmitting a notification to participant client devices, wherein the notification indicates that the editable document has been modified

However, Masterson teaches,

- transmitting a notification to participant client devices, wherein the notification indicates that the editable document has been modified (Masterson; edited

content sent to the user via communication method such as electronic communication message (e.g., electronic mail, text message, instant message, chat message, videoconference message, and the like) and receiving user select attached content item (edited content) and view or read content item; paragraph 18)

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Masterson technique of sending edited content item using test message or email to modify server obtain the conference content materials and sending to attendee's device to display at particular region, and requesting to server to view the presentation of Ackerman and Shadfar. It would have been motivated to make such combination to efficiently and quickly transmitted content to other user to improve communication.

Claim 14 is system claim that corresponding to method claim 3. Therefore, claim is rejected for the same reason as claim 3 above.

8. Claims 5, 11 and 17 are rejected under 35 U.S.C. 103 as being unpatentable over Ackerman et al. (US Pub 2010/0037151) hereinafter Ackerman in view of Shadfar et al. (US Pub 2011/0161834) hereinafter Shadfar as applied to claims 1, 9 and 16 above, and further in view of Kwatra et al. (US Pat, 11,245,735) hereinafter Kwatra.

Regarding claim 5, Ackerman and Shadfar teaches all of the claim 1. Ackerman and Shadfar do not teach expressly,

- detecting an initiation of a screen share in the conference in progress;
- determining that a substantive portion of the conference in progress has started based on the screen share, the substantive portion of the conference in progress associated with an agenda item; and
- transmitting a notification to the client device that indicates that the substantive portion of the conference in progress has started

However, Kwatra teaches,

- detecting an initiation of a screen share in the conference in progress (Kwatra; during a collaboration screen-sharing, client device initiate a screen-sharing session; col 3 line 39-45);
- determining that a substantive portion of the conference in progress has started based on the screen share, the substantive portion of the conference in progress associated with an agenda item (Kwatra; agenda share by the presenter user to other participant; col 5 line 28-33); and
- transmitting a notification to the client device that indicates that the substantive portion of the conference in progress has started (Kwatra; presenter initiate the screen sharing session and presenter shares display 118A with multiple users which allows multiple users to view various content in their respective devices; col 3 line 39-51)

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Kwatra technique of screen-sharing content with multiple

participant devices to modify server obtain the conference content materials and sending to attendee's device to display at particular region, and requesting to server to view the presentation of Ackerman and Shadfar. It would have been motivated to make such combination to enable user to quickly and efficiently communicate with multiple participant users via screen sharing during collaboration session.

Claims 11 is system claim that corresponding to method claim 5. Therefore, claim is rejected for the same reason as claim 5 above.

Claims 17 is non-transitory computer-readable storage device claim that corresponding to method claim 5. Therefore, claim is rejected for the same reason as claim 5 above.

9. Claims 6, 10 and 18 are rejected under 35 U.S.C. 103 as being unpatentable over Ackerman et al. (US Pub 2010/0037151) hereinafter Ackerman in view of Shadfar et al. (US Pub 2011/0161834) hereinafter Shadfar as applied to claims 1, 9 and 16 above, and further in view of Decrop et al. (US Pat, 11,488,634) hereinafter Decrop.

Regarding claim 6, Ackerman and Shadfar teaches all of the claim 1. Ackerman and Shadfar do not teach expressly,

- detecting a voice in an audio portion of the conference in progress;
- converting the voice to text;
- comparing the text to the conference item, wherein the conference item is an agenda;

- determining that a substantive portion of the conference in progress has started based on the comparison, the substantive portion of the conference in progress associated with an agenda item; and
- transmitting a notification to the client device that indicates that the substantive portion of the conference in progress has started

However, Decrop teaches,

- detecting a voice in an audio portion of the conference in progress (Decrop; speakers verbal speech output analyzed; col 7 line 42-47, further, in virtual meeting, a virtual meeting software, capture the audio of the speaker for speech-to-text conversion for later analysis; col 5 line 19-22);
- converting the voice to text (Decrop; convert speech-to-text of speaker speech; col 7 line 42-50);
- comparing the text to the conference item, wherein the conference item is an agenda (Decrop; the output speech-to-text text compared with common topics identified based on semantic similarity between the topics of the speaker and common topics; col 7 46-49);
- determining that a substantive portion of the conference in progress has started based on the comparison, the substantive portion of the conference in progress associated with an agenda item (Decrop; the output speech-to-text text compared with common topics identified based on semantic similarity between the topics of the speaker and common topics (speaker's topic equating as meeting agenda); col 7 line 46-49); and

- transmitting a notification to the client device that indicates that the substantive portion of the conference in progress has started (Decrop; the speaker's verbal communication during the meeting may be analyzed to have topics identified this correlate that video conference started; col 7 line 45-61).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Kwatra technique of Decrop technique of convert speaker speech-to text and compare topics to modify server obtain the conference content materials and sending to attendee's device to display at particular region, and requesting to server to view the presentation of Ackerman and Shadfar. It would have been motivated to make such combination to enable user to analyze accurately what the speaker says during the presentation by converting speech-to-text.

Claims 10 is system claim that corresponding to method claim 6. Therefore, claim is rejected for the same reason as claim 6 above.

Claims 18 is non-transitory computer-readable storage device claim that corresponding to method claim 5. Therefore, claim is rejected for the same reason as claim 5 above.

Response to Arguments

10. In the remarks on page 7, Wynn is not a "request," and the notification is sent to the client device, rather than received "from the client device," as claimed in 1. Applicant's argument have been considered, but are moot in view of new ground of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Applicant is required under 37 CFR § 1.111(c) to consider these references fully when responding to this action.

Chopdekar et al. (US 2022/0321616 A1) teaches electronic content provided to one or more participant and content received by server and provided as conference content to participants and presenter ([0048; figure 1]).

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

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

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PARMANAND D PATEL whose telephone number is

(571)270-7283. The examiner can normally be reached on Monday-Friday (IFP) 8:30-5:00.

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, Jennifer Welch can be reached on 571-272-7212. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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

/PARMANAND D PATEL/
Examiner, Art Unit 2143

/JENNIFER N WELCH/
Supervisory Patent Examiner, Art Unit 2143

Notice of References Cited	Application/Control No. 17/472,033	Applicant(s)/Patent Under Reexamination Swerdlow, Nick	
	Examiner PARMANAND D PATEL	Art Unit 2143	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20100037151-A1	02-2010	Ackerman; Ginger	G06Q10/10	715/753
*	B	US-20110161834-A1	06-2011	Shadfar; Shahin	H04L67/131	715/753
*	C	US-20220321616-A1	10-2022	Chopdekar; Sandesh	H04L65/403	1/1
	D					
	E					
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FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

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

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 335 of 547

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/472,033	Swerdlow, Nick
	Examiner	Art Unit
	PARMANAND D PATEL	2143

✓	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	11/18/2022	06/01/2023							
	1	✓	✓							
	2	✓	✓							
	3	✓	✓							
	4	✓	✓							
	5	✓	✓							
	6	✓	✓							
	7	✓	✓							
	8	✓	✓							
	9	✓	✓							
	10	✓	✓							
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	14	✓	✓							
	15	✓	✓							
	16	✓	✓							
	17	✓	✓							
	18	✓	✓							
	19	✓	✓							
	20	✓	✓							

Zoom Communications, Inc. v. Ricoh Company, Ltd.
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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/472,033	Swerdlow, Nick
	Examiner	Art Unit
	PARMANAND D PATEL	2143

CPC - Searched*		
Symbol	Date	Examiner
H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166	11/17/2022	PP
H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166	06/01/2023	PP

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

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

Search Notes		
Search Notes	Date	Examiner
PE2E search including limited text search combine with CPC symbols using East databases (USPGPUB; USPAT; FPRS; USOCR; EPO; JPO)	11/17/2022	PP
Use PE2E SEARCH and PALM to search inventors and assignee	11/17/2022	PP
Use google scholar to search prior arts	11/17/2022	PP
PE2E search including limited text search combine with CPC symbols using PE2E databases (USPGPUB; USPAT; FPRS; USOCR; EPO; JPO)	05/31/2023	PP
Use PE2E SEARCH and PALM to search inventors and assignee	05/31/2023	PP
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/PARMANAND D PATEL/ Examiner, Art Unit 2143	

Zoom Communications, Inc. v. Ricoh Company, Ltd.
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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/472,033	Swerdlow, Nick
	Examiner	Art Unit
	PARMANAND D PATEL	2143

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/PARMANAND D PATEL/ Examiner, Art Unit 2143	

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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-22)
Approved for use through 05/31/2024. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17472033
Filing Date	2021-09-10
First Named Inventor	Nick Swerdlow
Art Unit	2143
Examiner Name	P. D. Patel
Attorney Docket Number	ZOOM-164-C

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	9065874	B2	2015-06-23	Moyers et al.	

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

Zoom Communications, Inc. v. Ricoh Company, Ltd.
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ALL REFERENCES CONSIDERED EXCEPT WHERE [illegible]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17472033
	Filing Date	2021-09-10
	First Named Inventor	Nick Swerdlow
	Art Unit	2143
	Examiner Name	P. D. Patel
	Attorney Docket Number	ZOOM-164-C

	1	

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EXAMINER SIGNATURE

Examiner Signature	/PARMANAND D PATEL/	Date Considered	06/01/2023

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

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

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ALL REFERENCES CONSIDERED EXCEPT WHERE [illegible]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17472033
Filing Date	2021-09-10
First Named Inventor	Nick Swerdlow
Art Unit	2143
Examiner Name	P. D. Patel
Attorney Docket Number	ZOOM-164-C

CERTIFICATION STATEMENT

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

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

OR

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

See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Neil C. Maskeri/	Date (YYYY-MM-DD)	2023-03-02
Name/Print	Neil C. Maskeri	Registration Number	61,591

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

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 341 of 547

ALL REFERENCES CONSIDERED EXCEPT WHERE [illegible]

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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-22)
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(Not for submission under 37 CFR 1.99)

Application Number	17472033
Filing Date	2021-09-10
First Named Inventor	Nick Swerdlow
Art Unit	2143
Examiner Name	P. D. Patel
Attorney Docket Number	ZOOM-164-C

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	10592867	B2	2020-03-17	Jonathan Rosenberg	
	2	10320856	B2	2018-04-12	Jonathan Rosenberg	

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	1	20220078039	A1	2022-03-10	CHO, Hoyoung	

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	Application Number	17472033
	Filing Date	2021-09-10
	First Named Inventor	Nick Swerdlow
	Art Unit	2143
	Examiner Name	P. D. Patel
	Attorney Docket Number	ZOOM-164-C

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
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Zoom Communications, Inc. v. Ricoh Company, Ltd.
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	Examiner Name	P. D. Patel
	Attorney Docket Number	ZOOM-164-C

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OR

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See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Neil C. Maskeri/	Date (YYYY-MM-DD)	2023-05-11
Name/Print	Neil C. Maskeri	Registration Number	61,591

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Zoom Communications, Inc. v. Ricoh Company, Ltd.
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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

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Filing Date	2021-09-10
First Named Inventor	Nick Swerdlow
Art Unit	N/A 2143
Examiner Name	Not Yet Assigned Parmanand Patel
Attorney Docket Number	ZOOM-164-C

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	1	20050069116	A1	2005-03-31	Murray, F. Randall II	
	2	20030097217	A1	2003-05-22	Wells et al.	

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Art Unit	N/A
Examiner Name	Not Yet Assigned
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	1	International Search Report and Written Opinion mailed on December 13, 2022 in corresponding PCT Application Number PCT/US2022/042864.	
	2	Anonymous: "Is it possible to see who is in a currently running meeting without joining it yourself? - Microsoft Community Hub", 18 November 2020 (2020-11-18), pages 1-5, XP093005369, Retrieved from the Internet: URL: https://techcommunity.microsoft.com/t5/microsoft-teams/is-it-possible-to-see-who-is-in-a-currently-running-meeting/m-p/1901024 [retrieved on 2022-12-06] page 1-page 2	

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Distributed multiparty desktop conferencing system: MERMAID

K Watabe, S Sakata, K Maeno, H Fukuoka… - … 1990 ACM conference …, 1990 - dl.acm.org

… with user **requests**, of such **documents** as **conference agenda**, … retrieving and renewing **documents** in the **document file server**. … , convening **participants** before a **conference**, **requesting** …

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Review and functional classification of collaborative systems

G Baltzoutsou, G Mentzas - International journal of information management, 2002 - Elsevier

… **Documents** are stored in a central **server** and users can work … data about **participants**, including **attendee** contact information… set up **meeting agendas** and access to the **meetings** can be …

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A secure desktop **meeting** system

V Hassler, P Lipp, R Posch - 1994 - Citeseer

… **server**, whereby the **participants** use client programs to contact the set of cooperating **servers** to establish a **meeting session**… of the **attendees** who are voting upon the **agenda** proposal (…

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M McGregor, JC Tang - Proceedings of the 2017 ACM conference on …, 2017 - dl.acm.org

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ISIR Series - Journal of Internetworking: Research and Experience, 1993 - isi.edu

… **conferences** identical when the **participant** list and **requested** … Each **server** is a separate **program** that either is co–located … controlled teleconferences, where an **attendee** simply "tunes in…

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Distributed desktop conferencing system with multiuser multimedia interface

K Watabe, S Sakata, K Maeno… - IEEE Journal on …, 1991 - ieeexplore.ieee.org

… for **participating** in a distributed multiparty **conference**, … with user **requests**, of such **documents** as **conference agenda**, … **documents** in the **document file server**. 6) Local Communication …

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Integral solution for web conferencing event management

EB Arias, AM Hernández, AT del Dujo, DP Ruiz - e-society, 2011 - core.ac.uk

… post **conference** features, like **agenda** scheduling, **participant** notifications … , allow to confirm their **attendance**. In addition, no … **session** comes, the CM starts the appropriate **servers** for the …

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SharePoint **Meeting** Management Solutions

S Bates, T Smith - SharePoint 2003 User's Guide, 2005 - Springer

… Communications **Server**, which provide additional **meeting** … giving **attendees** time prior to the **meeting** to review **agendas**, … of **participation** in the **meeting** as people **participating** locally. …

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LIVELMS: A blended e-learning environment, a model proposition for integration of asynchronous and synchronous e-learning

E Er - 2009 - open.metu.edu.tr

… monitored asynchronously throughout the learning **program**, … duration of **attendance** of all **participants** for each **meeting** and … The Live **Meeting conference** center is the **server** that keeps …

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Advanced and Customized Net **Conference** Powered by Cisco WebEx Technology
Meeting Center

M WebEx - mymeetings.com

… and the **attendee** access code is the **participant** passcode. ▪ … used to inform **participants** of the **meeting agenda**, a welcome … ▪ **File** Transfer - Allows **participants** to download **documents** …

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PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L38	20	((("SWERDLOW") near3 ("Nick"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/05/30 02:11 PM
L39	767	((("ZOOM") near3 ("VIDEO") near3 ("COMMUNICATIONS") near3 ("INC"))).AS,AANM.	(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	2023/05/30 02:11 PM
L40	188947	(H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166).cpc.	(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	2023/05/30 02:11 PM
L41	0	L38 AND ((conference NEAR preview$3) AND (graphical NEAR output) AND (join$3 near2 conference) AND (panel NEAR interface) AND (progress) AND (server)).clm.	(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	2023/05/30 02:12 PM
L42	0	L39 AND ((conference	(US-PGPUB; USPAT;	OR	ON	ON	2023/05/30

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 353 of 547

		NEAR preview$3) AND (graphical NEAR output) AND (join$3 near2 conference) AND (panel NEAR interface) AND (progress) AND (server)).clm.	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)				02:12 PM
L43	7415	(obtain$4 acquir$4 receiv$4) WITH (conference meeting) SAME (server system platform) WITH (item agenda content points document) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/30 02:16 PM
L44	2771	(obtain$4 acquir$4 receiv$4) WITH (conference meeting) SAME (server) WITH (item agenda content points document) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/30 02:16 PM
L45	1685	(obtain$4 acquir$4 receiv$4) WITH (conference meeting) WITH (item agenda content points document) WITH (server) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/30 02:17 PM
L46	991	(server) near5 (obtain$4 acquir$4 receiv$4) WITH (conference meeting) WITH (item agenda content points document) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/30 02:18 PM
L47	641	(server) near5 (obtain$4 acquir$4 receiv$4) WITH (conference meeting) near5 (item agenda content points document) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/30 02:19 PM
L48	178	L47 AND L40	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/30 02:19 PM
L50	35	(preview$4 review) WITH (conference	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/30 03:19 PM

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 354 of 547

		meeting) near5 (item agenda content points document presentation) SAME ((conference meeting) WITH (started progress)) AND @ad<"20210910"					
L51	1	(request$3 demand$3) near3 (item agenda content points document presentation) WITH (prior before) WITH (conference meeting) WITH (start begin join joining) SAME server AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/31 03:09 PM
L52	6	(request$3 demand$3) near3 (item agenda content points document presentation) SAME (prior before) WITH (conference meeting) WITH (start begin join joining) SAME server AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/31 03:10 PM
L56	9	"20100037151"	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/31 03:33 PM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

PTO/SB/08a (01-22)
Approved for use through 05/31/2024. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17472033
Filing Date	2021-09-10
First Named Inventor	Nick Swerdlow
Art Unit	2143
Examiner Name	P. D. Patel
Attorney Docket Number	ZOOM-164-C

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	10592867	B2	2020-03-17	Jonathan Rosenberg	
	2	10320856	B2	2018-04-12	Jonathan Rosenberg	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20220078039	A1	2022-03-10	CHO, Hoyoung	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17472033
	Filing Date	2021-09-10
	First Named Inventor	Nick Swerdlow
	Art Unit	2143
	Examiner Name	P. D. Patel
	Attorney Docket Number	ZOOM-164-C

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

Examiner Signature		Date Considered	

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

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17472033
	Filing Date	2021-09-10
	First Named Inventor	Nick Swerdlow
	Art Unit	2143
	Examiner Name	P. D. Patel
	Attorney Docket Number	ZOOM-164-C

CERTIFICATION STATEMENT

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

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

OR

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

See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Neil C. Maskeri/	Date (YYYY-MM-DD)	2023-05-11
Name/Print	Neil C. Maskeri	Registration Number	61,591

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

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

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

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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.

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal

Application Number:	17472033
Filing Date:	10-Sep-2021
Title of Invention:	Previewing Conference Items Prior To Joining A Conference
First Named Inventor/Applicant Name:	Nick Swerdlow
Filer:	Neil C. Maskeri/Jessica Tumblin
Attorney Docket Number:	ZOOM-164-C

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

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

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	1806	1	260	260
		Total in USD ($)		**260**

Electronic Acknowledgement Receipt

EFS ID:	47985870
Application Number:	17472033
International Application Number:	
Confirmation Number:	1532
Title of Invention:	Previewing Conference Items Prior To Joining A Conference
First Named Inventor/Applicant Name:	Nick Swerdlow
Customer Number:	177453
Filer:	Neil C. Maskeri/Jessica Tumblin
Filer Authorized By:	Neil C. Maskeri
Attorney Docket Number:	ZOOM-164-C
Receipt Date:	11-MAY-2023
Filing Date:	10-SEP-2021
Time Stamp:	11:42:52
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	ZOOM164C_Information_Disclosure_Statement_Fillable_PDF_20230510.pdf	1263184 9b9b2b665f68e116ba96b52e423d2b3077f7de50	no	4

Warnings:

Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	38234 57ec3a2bfd317b8f84b1e9b4c3094b62ae1ae06a	no	2
Warnings:					
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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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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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Atty. Doc. No. ZOOM-164-C PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Zoom Video Communications, Inc.
First Named Inventor:	Nick Swerdlow
Serial Number:	17/472,033
Filing Date:	September 10, 2021
Examiner/Art Unit:	Parmanand D. Patel / 2143 Conf. No. 1532
Title:	Previewing Conference Items Prior To Joining A Conference

TRANSMITTAL FEE PAYMENT FOR

INFORMATION DISCLOSURE STATEMENT

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

Dear Commissioner:

Please enter the enclosed fee payment of $260 for the Information Disclosure Statement filed on May 11, 2023 in the subject application. The acknowledgment receipt EFS-ID for the Information Disclosure Statement filing is 47985870. If any additional charges or fees must be paid in connection with this communication, they may be paid out of our Deposit Account No. 25-0115.

Respectfully submitted,

YOUNG BASILE
HANLON & MACFARLANE P.C.

/ Neil C. Maskeri /

Neil C. Maskeri
Registration No. 61,591
(248) 649-3333

3001 West Big Beaver Rd., Ste. 624
Troy, Michigan 48084-3107
Date: May 11, 2023

Electronic Patent Application Fee Transmittal

Application Number:	17472033
Filing Date:	10-Sep-2021
Title of Invention:	Previewing Conference Items Prior To Joining A Conference
First Named Inventor/Applicant Name:	Nick Swerdlow
Filer:	Neil C. Maskeri/Jessica Tumblin
Attorney Docket Number:	ZOOM-164-C

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

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

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	1806	1	260	260
		Total in USD ($)		**260**

Electronic Acknowledgement Receipt

EFS ID:	47988956
Application Number:	17472033
International Application Number:	
Confirmation Number:	1532
Title of Invention:	Previewing Conference Items Prior To Joining A Conference
First Named Inventor/Applicant Name:	Nick Swerdlow
Customer Number:	177453
Filer:	Neil C. Maskeri/Jessica Tumblin
Filer Authorized By:	Neil C. Maskeri
Attorney Docket Number:	ZOOM-164-C
Receipt Date:	11-MAY-2023
Filing Date:	10-SEP-2021
Time Stamp:	16:37:39
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$260
RAM confirmation Number	E20235AG38375610
Deposit Account	250115
Authorized User	Jessica Tumblin

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

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37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

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	Fee Worksheet (SB06)	ZOOM164C_IDSFeeTransmittal.pdf	15541 0a7820320f87c2974fe924f56b19e025c2dda312	no	2
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	38234 06eafd0d73afdd4b82d36da9469493b1c3828e2f	no	2
Warnings:					
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New Applications Under 35 U.S.C. 111

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

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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
17/472,033	09/10/2021	Nick Swerdlow	ZOOM-164-C

CONFIRMATION NO. 1532

177453
Zoom Video Communications, Inc. at Young Basile
3001 West Big Beaver Rd., Ste. 624
Troy, MI 48084

PUBLICATION NOTICE

OC000000137589409

Title: Previewing Conference Items Prior To Joining A Conference

Publication No.US-2023-0083350-A1
Publication Date:03/16/2023

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

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

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IPR2026-00407 | EX2009 | Page 370 of 547

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17472033
Filing Date	2021-09-10
First Named Inventor	Nick Swerdlow
Art Unit	2143
Examiner Name	P. D. Patel
Attorney Docket Number	ZOOM-164-C

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	9065874	B2	2015-06-23	Moyers et al.	

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	1					

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17472033
	Filing Date	2021-09-10
	First Named Inventor	Nick Swerdlow
	Art Unit	2143
	Examiner Name	P. D. Patel
	Attorney Docket Number	ZOOM-164-C

	1	

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

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

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

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17472033
	Filing Date	2021-09-10
	First Named Inventor	Nick Swerdlow
	Art Unit	2143
	Examiner Name	P. D. Patel
	Attorney Docket Number	ZOOM-164-C

CERTIFICATION STATEMENT

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

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

OR

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

See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Neil C. Maskeri/	Date (YYYY-MM-DD)	2023-03-02
Name/Print	Neil C. Maskeri	Registration Number	61,591

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

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

UNITED STATES
PATENT AND TRADEMARK OFFICE

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Alexandria, VA 22313 - 1450
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/472,033	**03/02/2023 10:39:18 AM ET**	**ZOOM-164-C**

Title of Invention

Previewing Conference Items Prior To Joining A Conference

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1532	FILED BY	Jessica Tumblin
PATENT CENTER #	61676778	FILING DATE	09/10/2021
CUSTOMER #	177453	FIRST NAMED INVENTOR	Nick Swerdlow
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Neil Maskeri

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
ZOOM164C_Information Disclosure Statement Fillable PDF _20230301.pdf	4	Information Disclosure Statement (IDS) Form (SB08)	1234 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
ZOOM164C_Information Disclosure Statement Fillable PDF _20230301.pdf	0E4102A68049C9B23C568B1A09B811C6CDDE94CD880363941 1D2A8799804D1EBFF1FDCB3971E568C833B73470FB15AFEDC 50CA93BABF9D498BAAA53026B65B89

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

New Applications Under 35 U.S.C. 111

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

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/472,033	03/02/2023 10:39:18 AM ET	ZOOM-164-C

Title of Invention

Previewing Conference Items Prior To Joining A Conference

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1532	FILED BY	Jessica Tumblin
PATENT CENTER #	61676778	AUTHORIZED BY	Neil Maskeri
CUSTOMER #	177453	FILING DATE	09/10/2021
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Nick Swerdlow

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 250115	E202332A40085703	Jessica Tumblin

PRE-AUTHORIZED ACCOUNT	PRE-AUTHORIZED CATEGORY
250115	37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees); 37 CFR 1.19 (Document supply fees); 37 CFR 1.20 (Post Issuance fees); 37 CFR 1.21 (Miscellaneous fees and charges)

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
1806	SUBMISSION OF AN INFORMATION DISCLOSURE STATEMENT	260.00	1	260.00
			TOTAL AMOUNT:	$260.00

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/472,033	09/10/2021	Nick Swerdlow	ZOOM-164-C	1532

177453 7590 02/24/2023

Zoom Video Communications, Inc. at Young Basile
3001 West Big Beaver Rd., Ste. 624
Troy, MI 48084

EXAMINER	
PATEL, PARMANAND D	

ART UNIT	PAPER NUMBER
2143	

NOTIFICATION DATE	DELIVERY MODE
02/24/2023	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):

docketing@youngbasile.com

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 379 of 547

Applicant-Initiated Interview Summary	**Application No.** 17/472,033	**Applicant(s)** Swerdlow, Nick		
	Examiner PARMANAND D PATEL	**Art Unit** 2143	**AIA (First Inventor to File) Status** Yes	**Page** 1 of 1

All Participants (applicant, applicants representative, PTO personnel)	**Title**	**Type**
PARMANAND D PATEL	Examiner	Telephonic
Neil Maskeri	Attorney	

Date of Interview: 17 February 2023

Issues Discussed:

Proposed Amendment(s)

Applicant gave brief claim invention summary and start discussing proposed amendment. Applicant argued that prior art Wynn(2018/0039951) not teaching when conference in progress, participant not requesting conference item. Examiner agrees with propose amendment, Examiner also suggest based on the discussion that to conference item stored in server and requested item received from server but not participant device. Examiner update search upon official response receive.

☑ Attachment

/PARMANAND D PATEL/ Examiner, Art Unit 2143	/JENNIFER N WELCH/ Supervisory Patent Examiner, Art Unit 2143

Applicant is reminded that a complete written statement as to the substance of the interview must be made of record in the application file. It is the applicants responsibility to provide the written statement, unless the interview was initiated by the Examiner and the Examiner has indicated that a written summary will be provided. See MPEP 713.04
Please further see:
MPEP 713.04
Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews, paragraph (b)
37 CFR § 1.2 Business to be transacted in writing

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 380 of 547

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Zoom Video Communications, Inc.
First Named Inventor:	Nick Swerdlow
Serial Number:	17/472,033
Filing Date:	September 10, 2021
Examiner/Art Unit:	Parmanand D. Patel / 2143 Conf. No. 1532
Title:	Previewing Conference Items Prior to Joining a Conference

INTERVIEW AGENDA

Dear Examiner Patel:

The proposed agenda for the telephonic interview scheduled for February 17, 2023 at 11:00 AM ET is provided below.

1. Discussion of the Wynn reference with respect to "receiving a request from the client device to view the conference item," as claimed.

2. If needed, discussion of a proposed amendment as provided below.

Proposed Amendment:

1. (Currently Amended) A method for conference previewing, comprising:

obtaining a conference item associated with a conference in progress;

transmitting, to a client device, a first graphical output for display on a panel interface associated with the conference, the panel interface having a first portion and a second portion, the first portion including an indicator of the conference item;

prior to the client device joining the conference in progress:

receiving a request from the client device to view the conference item; and

transmitting a second graphical output to the client device based on the request to display the conference item on the second portion of the panel interface.

Respectfully submitted,

YOUNG BASILE
HANLON & MACFARLANE, P.C.

/Neil C. Maskeri/

Neil C. Maskeri
Registration No. 61,591
T: (248) 649-3333
F: (248) 649-3338

3001 West Big Beaver Road, Ste. 624
Troy, Michigan 48084-3107

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 382 of 547

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Zoom Video Communications, Inc.
First Named Inventor:	Nick Swerdlow
Serial Number:	17/472,033
Filing Date:	September 10, 2021
Examiner/Art Unit:	Parmanand D. Patel / 2143 Conf. No. 1532
Title:	Previewing Conference Items Prior to Joining a Conference

AMENDMENT

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

Commissioner:

In response to the Office Action dated November 25, 2022, please enter the remarks and amendments, if any, in the above-identified patent application as indicated below.

If any extensions of time are needed for timely acceptance of this reply and associated papers, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment from Deposit Account No. 25-0115. If any other fees must be paid in connection with this reply, Applicant authorizes payment from Deposit Account No. 25-0115.

☐ Amendments to the Abstract.

☐ Amendments to the Specification.

☒ Amendments to the Claims.

☐ Amendments to the Drawings.

Listing of the Claims:

1. (Currently Amended) A method for conference previewing, comprising:

obtaining a conference item associated with a conference in progress;

transmitting, to a client device, a first graphical output for display on a panel interface associated with the conference in progress, the panel interface having a first portion and a second portion, the first portion including an indicator of the conference item;

prior to the client device joining the conference in progress:

receiving, at a server, a request from the client device to view the conference item; and

transmitting, from the server, a second graphical output to the client device based on the request to display the conference item on the second portion of the panel interface.

2. (Original) The method of claim 1, wherein the conference item is an editable document.

3. (Currently Amended) The method of claim ~~2~~1, wherein the conference item is an editable document, the method comprising:

transmitting a notification to participant client devices, wherein the notification indicates that the editable document has been modified.

4. (Original) The method of claim 1, wherein the conference item is at least one of an agenda, a real-time transcript, a downloadable file, or a real-time presentation.

5. (Currently Amended) The method of claim 1, comprising:

detecting an initiation of a screen share in the conference in progress;

determining that a substantive portion of the conference in progress has started based on the screen share, the substantive portion of the conference in progress associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference in progress has started.

6. (Currently Amended) The method of claim 1, comprising:

detecting a voice in an audio portion of the conference in progress;

converting the voice to text;

comparing the text to the conference item, wherein the conference item is an agenda;

determining that a substantive portion of the conference in progress has started based on the comparison, the substantive portion of the conference in progress associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference in progress has started.

7. (Currently Amended) The method of claim 1, wherein the display of the client device includes a panel interface associated with the conference in progress, wherein the panel interface includes a first portion and a second portion.

8. (Currently Amended) The method of claim ~~7~~1, wherein the display of the client device includes a panel interface associated with the conference in progress, wherein the panel interface includes a first portion and a second portion, and wherein the first graphical output is displayed on the first portion of the panel interface and the second graphical output is displayed on the second portion of the panel interface.

9. (Currently Amended) A system for conference previewing, comprising:

a server configured to:

obtain a conference item associated with a conference in progress; and

transmit a first graphical output based on the conference item; and

a client device configured to display the first graphical output on a panel interface associated with the conference, the panel interface having a first portion and a second portion, the first portion including an indicator of the conference item;

prior to the client device joining the conference in progress, the server configured to:

receive a request from the client device to view the conference item; and

transmit a second graphical output to the client device based on the request; and

prior to the client device joining the conference in progress, the client device configured to:

display the conference item on the second portion of the panel interface.

10. (Currently Amended) The system of claim 9, wherein the server is configured to:

detect a voice in an audio portion of the conference in progress;

convert the voice to text;

compare the text to the conference item, wherein the conference item is an agenda;

determine that a substantive portion of the conference in progress has started based on the comparison, the substantive portion of the conference in progress associated with an agenda item; and

transmit a notification to the client device that indicates that the substantive portion of the conference in progress has started.

11. (Currently Amended) The system of claim ~~10~~9, wherein the server is configured to:

detect an initiation of a screen share in the conference in progress;

determine that a substantive portion of the conference in progress has started based on the screen share, the substantive portion of the conference in progress associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference in progress has started.

12. (Original) The system of claim 9, wherein the indicator is a visual indicator that is a graphical representation of the conference item.

13. (Currently Amended) The system of claim ~~12~~9, wherein the indicator is a visual indicator that is a graphical representation of the conference item, and wherein the visual indicator is at least one of an icon, a thumbnail, or a text representation of the conference item.

14. (Original) The system of claim 9, wherein the conference item is an editable document, the server configured to:

transmit a notification to participant client devices, wherein the notification indicates that the editable document has been modified.

15. (Original) The system of claim 9, wherein the conference item is at least one of an agenda, a real-time transcript, a downloadable file, or a real-time presentation.

16. (Currently Amended) A non-transitory computer-readable storage device including program instructions that, when executed by a processor, cause the processor to perform operations, the operations comprising:

obtaining a conference item associated with a conference in progress;

transmitting a first graphical output for display on a panel interface associated with the conference in progress, the panel interface having a first portion and a second portion, the first portion including an indicator of the conference item;

prior to the client device joining the conference in progress:

receiving, at a server, a request from the client device to view the conference item; and

transmitting, from the server, a second graphical output to the client device to display the conference item on the second portion of the panel interface.

17. (Currently Amended) The non-transitory computer-readable storage device of claim 16, wherein the program instructions, when executed by the processor, cause the processor to perform operations, the operations comprising:

detecting an initiation of a screen share in the conference in progress;

determining that a substantive portion of the conference in progress has started based on the screen share, the substantive portion of the conference in progress associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference in progress has started.

18. (Currently Amended) The non-transitory computer-readable storage device of claim 16, wherein the program instructions, when executed by the processor, cause the processor to perform operations, the operations comprising:

detecting a voice in an audio portion of the conference in progress;

converting the voice to text;

comparing the text to the conference item, wherein the conference item is an agenda;

determining that a substantive portion of the conference in progress has started based on the comparison, the substantive portion of the conference in progress associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference in progress has started.

19. (Original) The non-transitory computer-readable storage device of claim 16, wherein the indicator is a visual indicator that is a graphical representation of the conference item.

20. (Currently Amended) The non-transitory computer-readable storage device of claim 19, wherein the indicator is a visual indicator that is a graphical representation of the conference item, and wherein the visual indicator is at least one of an icon, a thumbnail, or a text representation of the conference item.

REMARKS

In response to the Office Action dated November 25, 2022, Applicant amends claims 1, 3, 5-11, 13, 16-18, and 20. No new matter is added. After entry of this Amendment, claims 1-20 are pending in the Application. Reconsideration of the Application as amended is respectfully requested in view of these remarks.

Summary of Examiner Interview

Applicant thanks the Examiner for the telephone interview conducted on February 17, 2023. The attendees were Examiner Parmanand D. Patel and the Applicant's representative, Neil C. Maskeri (Registration No. 61,591). During the interview, a proposed amendment was discussed in view of the Wynn reference. An agreement was reached that the proposed amendment overcomes the Wynn reference. The Examiner indicated that a further search is required.

Rejections under 35 U.S.C. §102

Claims 1-2, 4, 7-9, 12-13, 15-16, and 19-20 are rejected under 35 U.S.C. § 102 as being anticipated by U.S. Patent Application Publication No. 2018/0039951 to Wynn et al. ("Wynn").

Regarding claim 1, an agreement was reached that the proposed amendment overcomes Wynn. The Applicant notes that the notification in Wynn is not a "request," and the notification is sent to the client device, rather than received "from the client device," as claimed. Accordingly, the Applicant submits that claim 1 is allowable over Wynn for at least these reasons.

Claims 9 and 16 include substantially similar elements as claim 1. Accordingly, the Applicant submits that claims 9 and 16 are allowable over Wynn for at least the same reasons provided above.

Claims 2, 4, and 7-8 are dependent upon claim 1. Claims 12-13, and 15 are dependent upon claim 9. Claims 19-20 are dependent upon claim 16. Applicant accordingly requests that the rejection of claims 1-2, 4, 7-9, 12-13, 15-16, and 19-20 under 35 U.S.C. § 102 be reconsidered and withdrawn.

Rejections under 35 U.S.C. §103

Claims 3 and 14 are rejected under 35 U.S.C. § 103 as being unpatentable over Wynn in view of U.S. Patent Application Publication No. 2015/0281149 to Masterson et al. ("Masterson").

Regarding claims 3 and 14, Masterson fails to overcome the deficiencies of Wynn. Accordingly, the Applicant submits that claims 3 and 14 are allowable over the cited references for at least the same reasons provided above.

Claims 5, 11, and 17 are rejected under 35 U.S.C. § 103 as being unpatentable over Wynn in view of U.S. Patent No. 11,245,735 to Kwatra et al. ("Kwatra").

Regarding claims 5, 11, and 17, Kwatra fails to overcome the deficiencies of Wynn. Accordingly, the Applicant submits that claims 5, 11, and 17 are allowable over the cited references for at least the same reasons provided above.

Claims 6, 10, and 18 are rejected under 35 U.S.C. § 103 as being unpatentable over Wynn in view of U.S. Patent No. 11,245,735 to Decrop et al. ("Decrop").

Regarding claims 6, 10, and 18, Decrop fails to overcome the deficiencies of Wynn. Accordingly, the Applicant submits that claims 6, 10, and 18 are allowable over the cited references for at least the same reasons provided above.

Applicant accordingly requests that the rejection of claims 3, 5-6, 10-11, 14, and 17-18 under 35 U.S.C. § 103 be reconsidered and withdrawn.

Conclusion

It is submitted that this Amendment has antecedent basis in the application as originally filed, including the specification, claims and drawings, and that this Amendment does not add any new subject matter to the application. It is submitted that this Amendment places the application in suitable condition for allowance, notice of which is requested.

The Examiner is invited to contact the undersigned at the telephone number listed below if the Examiner believes an Examiner's amendment would expedite prosecution of the Application.

Respectfully submitted,

YOUNG BASILE
HANLON & MACFARLANE, P.C.

/Neil C. Maskeri/

Neil C. Maskeri
Registration No. 61,591
T: (248) 649-3333
F: (248) 649-3338

3001 West Big Beaver Road, Ste. 624
Troy, Michigan 48084-3107

Electronic Acknowledgement Receipt

EFS ID:	47557709
Application Number:	17472033
International Application Number:	
Confirmation Number:	1532
Title of Invention:	Previewing Conference Items Prior To Joining A Conference
First Named Inventor/Applicant Name:	Nick Swerdlow
Customer Number:	177453
Filer:	Neil C. Maskeri/Jessica Tumblin
Filer Authorized By:	Neil C. Maskeri
Attorney Docket Number:	ZOOM-164-C
Receipt Date:	20-FEB-2023
Filing Date:	10-SEP-2021
Time Stamp:	11:32:28
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		ZOOM164C_Amd_20221125.pdf	40040 45e40ec671131635db1235ac9fe7dafc17a499be	yes	9

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Request for Reconsideration-After Non-Final Rejection	1	1
	Claims	2	6
	Applicant Arguments/Remarks Made in an Amendment	7	9
Warnings:			
Information:			
	Total Files Size (in bytes):	40040	

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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 17/472,033	Filing Date 09/10/2021	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) 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), (i), 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 $100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $480 =	
☐ 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	02/20/2023	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $480 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(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".	/BRENDA V HARRISON/
*** 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.

PTO/SB/08a (01-22)
Approved for use through 05/31/2024. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17472033
Filing Date	2021-09-10
First Named Inventor	Nick Swerdlow
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	ZOOM-164-C

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20050069116	A1	2005-03-31	Murray, F. Randall II	
	2	20030097217	A1	2003-05-22	Wells et al.	

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

FOREIGN PATENT DOCUMENTS Remove

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

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

NON-PATENT LITERATURE DOCUMENTS Remove

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17472033
	Filing Date	2021-09-10
	First Named Inventor	Nick Swerdlow
	Art Unit	N/A
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	ZOOM-164-C

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	International Search Report and Written Opinion mailed on December 13, 2022 in corresponding PCT Application Number PCT/US2022/042864.	
	2	Anonymous: "Is it possible to see who is in a currently running meeting without joining it yourself? - Microsoft Community Hub", 18 November 2020 (2020-11-18), pages 1-5, XP093005369, Retrieved from the Internet: URL: https://techcommunity.microsoft.com/t5/microsoft-teams/is-it-possible-to-see-who-is-in-a-currently-running-meeting/m-p/1901024 [retrieved on 2022-12-06] page 1-page 2	

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

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

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

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17472033
	Filing Date	2021-09-10
	First Named Inventor	Nick Swerdlow
	Art Unit	N/A
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	ZOOM-164-C

CERTIFICATION STATEMENT

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

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

OR

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

☒ See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Neil C. Maskeri/	Date (YYYY-MM-DD)	2022-12-14
Name/Print	Neil C. Maskeri	Registration Number	61,591

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

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:

MASKERI, Neil
3001 West Big Beaver Rd. Suite 624
Troy MI 48084-3107
ETATS-UNIS D'AMERIQUE

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference ZOOM164BWO	Date of mailing *(day/month/year)* 13 December 2022 (13-12-2022) **FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No. PCT/US2022/042864	International filing date *(day/month/year)* 8 September 2022 (08-09-2022)
Applicant ZOOM VIDEO COMMUNICATIONS, INC.	

1. [X] The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

   Filing of amendments and statement under Article 19:
   The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

   When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

   How? Directly to the International Bureau preferably through ePCT, or on paper to:
   The International Bureau of WIPO, 34 chemin des Colombettes, 1211 Geneva 20, Switzerland

   For more detailed instructions, see the *PCT Applicant's Guide*, International Phase, paragraphs 9.004 - 9.011.

2. [ ] The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. [ ] **With regard to any protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

   [ ] the protest together with the decision thereon has been transmitted to the International Bureau together with any request to forward the texts of both the protest and the decision thereon to the designated Offices.

   [ ] no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Reminders**

   The applicant may **submit comments on an informal basis on the written opinion of the International Searching Authority** to the International Bureau. These comments will be made available to the public after international publication. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established.

   Shortly after the expiration of **18 months from the priority date, the international application will be published** by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau before the completion of the technical preparations for international publication (Rules 90*bis*.1 and 90*bis*.3).

   Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for **entry into the national phase** before those designated Offices. In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months. For details about the applicable time limits, Office by Office, see www.wipo.int/pct/en/texts/time_limits.html and the *PCT Applicant's Guide*, National Chapters.

   Within **22 months from the priority date, the applicant may request that a supplementary international search be carried out** by a different International Searching Authority that offers this service (Rule 45*bis*.1). The procedure for requesting supplementary international search is described in the *PCT Applicant's Guide*, International Phase, paragraphs 8.006-8.032.

Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040 Fax: (+31-70) 340-3016	Authorized officer BASTIÉ, Joël Tel: +31 (0)70 340-4157

Form PCT/ISA/220 (revised January 2020)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	**FOR FURTHER ACTION**	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
ZOOM164BWO		
International application No.	International filing date *(day/month/year)*	(Earliest) Priority Date *(day/month/year)*
PCT/US2022/042864	8 September 2022 (08-09-2022)	10 September 2021 (10-09-2021)
Applicant		
ZOOM VIDEO COMMUNICATIONS, INC.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

[X] It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**
   a. With regard to the **language,** the international search was carried out on the basis of:
      [X] the international application in the language in which it was filed
      [ ] a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))
   b. [ ] This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6*bis*(a)).
   c. [ ] With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. [ ] **Certain claims were found unsearchable** (See Box No. II)

3. [ ] **Unity of invention is lacking** (see Box No III)

4. With regard to the **title,**
   [X] the text is approved as submitted by the applicant
   [ ] the text has been established by this Authority to read as follows:

5. With regard to the **abstract,**
   [X] the text is approved as submitted by the applicant
   [ ] the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings,**
   a. the figure of the **drawings** to be published with the abstract is Figure No. 9
      [X] as suggested by the applicant
      [ ] as selected by this Authority, because the applicant failed to suggest a figure
      [ ] as selected by this Authority, because this figure better characterizes the invention
   b. [ ] none of the figures is to be published with the abstract

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 400 of 547

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2022/042864

A. CLASSIFICATION OF SUBJECT MATTER
INV. H04L12/18 H04L51/046
ADD.

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)
H04L

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 practicable, 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	US 2005/069116 A1 (MURRAY F RANDALL [US]) 31 March 2005 (2005-03-31)	1,2, 5-10, 13-20
Y	abstract paragraph [0004] - paragraph [0006] paragraph [0028] - paragraph [0030]	3,4,11, 12

-/--

[x] Further documents are listed in the continuation of Box C.

[x] See patent family annex.

* Special categories of cited documents :

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

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

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

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

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

"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

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

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
6 December 2022	13/12/2022

Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Poggio, Francesca

2

Form PCT/ISA/210 (second sheet) (April 2005)

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 401 of 547

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Anonymous: "Is it possible to see who is in a currently running meeting without joining it yourself? - Microsoft Community Hub", , 18 November 2020 (2020-11-18), pages 1-5, XP093005369, Retrieved from the Internet: URL:https://techcommunity.microsoft.com/t5/microsoft-teams/is-it-possible-to-see-who-is-in-a-currently-running-meeting/m-p/1901024 [retrieved on 2022-12-06] page 1 - page 2	1,9,15
Y	US 2003/097217 A1 (WELLS CHARLES HILLIARY [US] ET AL) 22 May 2003 (2003-05-22) abstract	3,4,11, 12

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 402 of 547

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2022/042864

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2005069116 A1	31-03-2005	CN 1886977 A	27-12-2006
		CN 102938701 A	20-02-2013
		EP 1687965 A1	09-08-2006
		KR 20060100399 A	20-09-2006
		KR 20120039765 A	25-04-2012
		US 2005069116 A1	31-03-2005
		WO 2005034497 A1	14-04-2005
US 2003097217 A1	22-05-2003	NONE	

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 403 of 547

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

see form PCT/ISA/220

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference
see form PCT/ISA/220

FOR FURTHER ACTION
See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2022/042864	08.09.2022	10.09.2021

International Patent Classification (IPC) or both national classification and IPC
INV. H04L12/18 H04L51/046

Applicant
ZOOM VIDEO COMMUNICATIONS, INC.

1. This opinion contains indications relating to the following items:

- ☑ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☑ Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1*bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA:	Date of completion of this opinion	Authorized Officer
European Patent Office P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Fax: +31 70 340 - 3016	see form PCT/ISA/210	Poggio, Francesca Telephone No. +31 70 340-0

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Box No. I Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☑ the international application in the language in which it was filed.

   ☐ a translation of the international application into , which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1 (b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing:

   a. ☐ forming part of the international application as filed.

   b. ☐ furnished subsequent to the international filing date for the purposes of international search (Rule 13*ter*.1(a)),

      ☐ accompanied by a statement to the effect that the sequence listing does not go beyond the disclosure in the international application as filed.

4. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been established to the extent that a meaningful opinion could be formed without a WIPO Standard ST.26 compliant sequence listing.

5. Additional comments:

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes:	Claims	3, 4, 11, 12
	No:	Claims	1, 2, 5-10, 13-20
Inventive step (IS)	Yes:	Claims	
	No:	Claims	1-20
Industrial applicability (IA)	Yes:	Claims	1-20
	No:	Claims	

2. Citations and explanations

see separate sheet

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Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1 Reference is made to the following documents:

D1 US 2005/069116 A1 (MURRAY F RANDALL [US]) 31 March 2005 (2005-03-31)

D2 Anonymous: "Is it possible to see who is in a currently running meeting without joining it yourself? - Microsoft Community Hub", , 18 November 2020 (2020-11-18), pages 1-5, XP093005369, Retrieved from the Internet: URL:https://techcommunity.microsoft.com/t5/microsoft-teams/is-it-possible-to-see-who-is-in-a-currently-running-meeting/m-p/1901024 [retrieved on 2022-12-06]

D3 US 2003/097217 A1 (WELLS CHARLES HILLIARY [US] ET AL) 22 May 2003 (2003-05-22)

2 The present application does not meet the criteria of Article 33(2) PCT, because the subject-matter of claim 1 is not new.

D1 discloses:

A method for conference messaging (abstract), comprising:
obtaining information associated with a conference that is in progress (par. 26), wherein the information includes a duration that a participant has been in the conference (par. 28: "When the conference call actually starts, such as when the chairperson joins the call, the MAS 106 could send to all of the identified participants an instant message indicating that the conference call has begun";
transmitting, to a client device, a graphical output to display on the client device, the graphical output based on the information (the layout of the provided information is not considered a technical feature, but a mere presentation detail);
prior to the client device joining the conference:
receiving a message from the client device to initiate a communication with a participant device that is present in the conference (par. 29 - 30); and
granting the client device access to an in-conference communication application associated with the conference in progress based on the message to communicate with the participant device (par. 29).

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3 It is furthermore noted that even a different interpretation of D1 teaching or a slightly different formulation of claim 1 which could establish novelty, could not be sufficient for establishing the presence of any inventive step, as D1 discloses the same object (setting up a instant messaging channel associated to an online conference between the organiser of the conference before/without the participant joining the conference) and the same type of solution as the present application, and claim 1 would, even with such a difference in interpretation and/ or in formulation, would not meet the requirements of Article 33 (3) PCT.

4 In fact also D2 solves the very same problem addressed by the current application in par. 18-21 of the description, and this is a well-known feature of MS Teams, which is considered also common practice.

5 Independent claims 9 and 15 respectively relate to the system and the computer program adapted to perform the method of claim 1. The features of said claim, as explained above, are already known from document D1.

The same considerations outlined with respect to claim 1 are thus also valid for independent claims 9 and 15.

The subject-matter of independent claims 9 and 15, therefore, is not novel and does not involve an inventive step, so that the claims do not comply with the dispositions set out in Article 33 (2) and (3) PCT.

6 Dependent claims 2 to 8 and 10 to 14 and 16 to 20 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step. The reasons being that the features of

- claims 2, 10 are by far too generic and easily derivable from the cited prior art documents D1 and D2;

- claims 5 to 8, 13 to 14 and 16 to 20 are fully anticipated by either D1, see in particular par. 30; and

- claims 3, 4, 11, 12 dealing with messages including specific content (ETA), are considered well-known in the art, such as shown by document D3.

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Information on Search Strategy - Pilot phase (see OJ 2015, A86)
The type of information contained in this sheet may change during the pilot for improving the usefulness of this new service.

Application Number
PCT/US2022/042864

TITLE: MESSAGING CONFERENCE PARTICIPANTS PRIOR TO JOINING A CONFERENCE

APPLICANT: ZOOM VIDEO COMMUNICATIONS, INC.

IPC CLASSIFICATION: H04L12/18, H04L51/046

EXAMINER: Poggio, Francesca

CONSULTED DATABASES: NPL, WPI, EPODOC

CLASSIFICATION SYMBOLS DEFINING EXTENT OF THE SEARCH:

IPC:

CPC: H04L12/1822, H04L51/046

FI/F-TERMS:

KEYWORDS OR OTHER ELEMENTS FEATURING THE INVENTION:
A method for conference messaging, comprising: obtaining information associated with a conference that is in progress, wherein the information includes a duration that a participant has been in the conference; transmitting, to a client device, a graphical output to display on the client device, the graphical output based on the information; prior to the client device joining the conference: receiving a message from the client device to initiate a communication with a participant device that is present in the conference; and granting the client device access to an in-conference communication application associated with the conference in progress based on the message to communicate with the participant device.

EPO FORM P04A42

Electronic Acknowledgement Receipt

EFS ID:	47207876
Application Number:	17472033
International Application Number:	
Confirmation Number:	1532
Title of Invention:	Previewing Conference Items Prior To Joining A Conference
First Named Inventor/Applicant Name:	Nick Swerdlow
Customer Number:	177453
Filer:	Neil C. Maskeri/Jessica Tumblin
Filer Authorized By:	Neil C. Maskeri
Attorney Docket Number:	ZOOM-164-C
Receipt Date:	14-DEC-2022
Filing Date:	10-SEP-2021
Time Stamp:	15:34:17
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	NPL2_XP93005369AI.pdf	102361 40533fb81e2c01f93b4efb621158e10fde771915	no	5

Warnings:

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Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	ZOOM164C_Information_Disclosure_Statement_Fillable_PDF_20221213.pdf	1263610 9b00278f04d93ccbdd3a9337b6ac0f5d1dc1e5de	no	4
Warnings:					
Information:					
3	Non Patent Literature	NPL_ZOOM164BWO_ISRWrittenOpinion_20221213.pdf	9118490 3a5e7f574cba8fda945bb10701d688cac40b2517	no	10
Warnings:					
Information:					
			Total Files Size (in bytes):	10484461	

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

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Zoom Video Communications, Inc. at Young Basile
3001 West Big Beaver Rd., Ste. 624
Troy, MI 48084

Courtesy Reminder for
Application Serial No: 17/472,033

Attorney Docket No: ZOOM-164-C
Customer Number: 177453
Date of Electronic Notification: 11/25/2022

This is a courtesy reminder that new correspondence is available for this application. If you have not done so already, please review the correspondence. The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

An email notification regarding the correspondence was sent to the following email address(es) associated with your customer number:
docketing@youngbasile.com

To view your correspondence online or update your email addresses, please visit us anytime at **https://ppair-my.uspto.gov/pair/PrivatePair.**
If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov or call 1-866-217-9197.

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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/472,033	09/10/2021	Nick Swerdlow	ZOOM-164-C	1532

177453 7590 11/25/2022

Zoom Video Communications, Inc. at Young Basile
3001 West Big Beaver Rd., Ste. 624
Troy, MI 48084

EXAMINER	
PATEL, PARMANAND D	

ART UNIT	PAPER NUMBER
2143	

NOTIFICATION DATE	DELIVERY MODE
11/25/2022	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):

docketing@youngbasile.com

Office Action Summary	Application No. 17/472,033	Applicant(s) Swerdlow, Nick	
	Examiner PARMANAND D PATEL	Art Unit 2143	AIA (FITF) Status Yes

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

Period for Reply

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

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

Status

1)☑ Responsive to communication(s) filed on 09/10/2021.

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

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

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

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1-20 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-20 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

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

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 09/10/2021 is/are: a)☑ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

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

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

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

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

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date See Continuation Sheet.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

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Continuation of Attachment(s) 2) Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date: 09/10/2021, 04/06/2022, 09/27/2022 and 10/19/2022

DETAILED ACTION

1. This Office Action is in response to Applicant's Communication received on 09/10/2021 for application number 17/433,033.

2. Claims 1-20 are presented for examination. Claims 1, 9 and 16 are independent claims.

Notice of Pre-AIA or AIA Status

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

Information Disclosure Statement

4. The information disclosure statement (IDSs) submitted on 09/10/20201, 04/06/2022, 09/27/2022 and 10/19/2022 in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 102

5. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) The claimed invention was patented, described in a printed publication, or in public use, on sale or otherwise available to the public before the effective filing date of the claimed invention.

7. Claims 1-2, 4, 7-9, 12-13, 15-16 and 19-20 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Wynn et al. (US Pub 2018/0039951) hereinafter Wynn.

Regarding claim 1, Wynn teaches, a method for conference previewing, comprising:

- obtaining a conference item associated with a conference (Wynn; figs. 10-11; as shown in figure 10, videoconference interface display agenda information 1010 associated with the videoconference and participant view 1004; paragraphs 138 and 140);
- transmitting, to a client device, a first graphical output for display on a panel interface associated with the conference (Wynn; fig. 10 shows the participant view 1004; paragraph 138), the panel interface having a first portion and a second portion (Wynn; fig 10 shows first portion as participant view 1004 and second portion as an agenda 1010; paragraphs 138 and 140), the first portion including an indicator of the conference item (Wynn; figs. 10 and 11 shows videoconference participants 1004 (first portion); paragraph 138);
- prior to the client device joining the conference: receiving a request from the client device to view the conference item (Wynn; before the videoconference notification sent to the participant includes the all or portion of the agenda

information; paragraph 75 and further as shown in figure 10 where agenda content displays; paragraph 140); and

- transmitting a second graphical output to the client device based on the request to display the conference item on the second portion of the panel interface (Wynn; as shown in figure 10 wherein agenda information display; paragraph 140).

Regarding claim 2, Wynn teaches all of the claim 1. Wynn further teaches,

- wherein the conference item is an editable document (Wynn; a user may have input a command to display an agenda interface that allows changes to the stored agenda; paragraph 76, further, user selected agenda item and changed with different text (editable document); paragraph 126))

Regarding claim 4, Wynn teaches all of the claim 1. Wynn further teaches,

- wherein the conference item is at least one of an agenda, a real-time transcript, a downloadable file, or a real-time presentation (Wynn one or more active agenda items can be displayed while videoconference content information is displayed as live images or video depicting participant users and/or other information such as slides, documents, etc; paragraph 20)

Regarding claim 7, Wynn teaches all of the claim 1. Wynn further teaches,

- wherein the display of the client device includes a panel interface associated with the conference, wherein the panel interface includes a first portion and a second

portion (Wynn; fig 10 shows first portion as participant view 1004 and second portion as an agenda 1010; paragraphs 138 and 140),

Regarding claim 8, Wynn teaches all of the claim 1. Wynn further teaches,

- wherein the first graphical output is displayed on the first portion of the panel interface and the second graphical output is displayed on the second portion of the panel interface (Wynn; fig 10 shows first portion as participant view 1004 and second portion as an agenda 1010 (first portion and second portion have different interfaces wherein both portions displays different conference items); paragraphs 138 and 140)

Claims 9 is system claim that corresponding to method claim 1. Therefore, claim is rejected for the same reason as claim 1 above.

Regarding claim 12, Wynn teaches all of the claim 1. Wynn further teaches,

- wherein the indicator is a visual indicator that is a graphical representation of the conference item (Wynn; as shown in figure 10, current agenda element 1022 display; paragraph 142).

Regarding claim 13, Wynn teaches all of the claim 1. Wynn further teaches,

- wherein the visual indicator is at least one of an icon, a thumbnail, or a text representation of the conference item (Wynn; as shown in figure 10, current agenda element 1022 display (conference agenda represented in text description); paragraph 142).

Claim 15 is system claim that corresponding to method claim 4. Therefore, claim is rejected for the same reason as claim 4 above.

Claim 16 is a non-transitory computer-readable storage device claim that corresponding to method claim 1. Therefore, claim is rejected for the same reason as claim 1 above. In addition, Wynn teaches, A non-transitory computer-readable storage device including program instructions that, when executed by a processor (Wynn; fig. 12; processor 1202), cause the processor to perform operations, the operations comprising:

Claims 19-20: they are non-transitory computer-readable storage device claim that corresponding to method claims 12-13. Therefore, they are rejected for the same reason as claims 12-13 above.

Claim Rejections - 35 USC § 103

8. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

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

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences

> between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

10. Claims 3 and 14 are rejected under 35 U.S.C. 103 as being unpatentable over Wynn et al. (US Pub 2018/0039951) hereinafter Wynn in view of Masterson et al. (US Pub 2015/0281149) hereinafter Masterson.

Regarding claim 3, Wynn teaches all of the claim 1. Wynn does not teach expressly,

- transmitting a notification to participant client devices, wherein the notification indicates that the editable document has been modified

However, Masterson teaches,

- transmitting a notification to participant client devices, wherein the notification indicates that the editable document has been modified (Masterson; edited content sent to the user via communication method such as electronic communication message (e.g., electronic mail, text message, instant message, chat message, videoconference message, and the like) and receiving user select attached content item (edited content) and view or read content item; paragraph 18)

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Masterson technique of sending edited content item using test message or email to modify managing the conference with participant with agenda of Wynn. It would have been motivated to make such combination to efficiently and quickly transmitted content to other user to improve communication.

Claim 14 is system claim that corresponding to method claim 3. Therefore, claim is rejected for the same reason as claim 3 above.

11. Claims 5, 11 and 17 are rejected under 35 U.S.C. 103 as being unpatentable over Wynn et al. (US Pub 2018/0039951) hereinafter Wynn in view of Kwatra et al. (US Pat, 11,245,735) hereinafter Kwatra.

Regarding claim 5, Wynn teaches all of the claim 1. Wynn does not teach expressly,

- detecting an initiation of a screen share in the conference;
- determining that a substantive portion of the conference has started based on the screen share, the substantive portion of the conference associated with an agenda item; and
- transmitting a notification to the client device that indicates that the substantive portion of the conference has started.

However, Kwatra teaches,

- detecting an initiation of a screen share in the conference (Kwatra; during a collaboration screen-sharing, client device initiate a screen-sharing session; col 3 line 39-45);
- determining that a substantive portion of the conference has started based on the screen share, the substantive portion of the conference associated with an agenda item (Kwatra; agenda share by the presenter user to other participant; col 5 line 28-33); and

- transmitting a notification to the client device that indicates that the substantive portion of the conference has started (Kwatra; presenter initiate the screen sharing session and presenter shares display 118A with multiple users which allows multiple users to view various content in their respective devices; col 3 line 39-51).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Kwatra technique of screen-sharing content with multiple participant devices to modify managing the conference with participant with agenda of Wynn. It would have been motivated to make such combination to enable user to quickly and efficiently communicate with multiple participant users via screen sharing during collaboration session.

Claims 11 is system claim that corresponding to method claim 5. Therefore, claim is rejected for the same reason as claim 5 above.

Claims 17 is non-transitory computer-readable storage device claim that corresponding to method claim 5. Therefore, claim is rejected for the same reason as claim 5 above.

12. Claims 6, 10 and 18 are rejected under 35 U.S.C. 103 as being unpatentable over Wynn et al. (US Pub 2018/0039951) hereinafter Wynn in view of Decrop et al. (US Pat, 11,245,735) hereinafter Decrop.

Regarding claim 6, Wynn teaches all of the claim 1. Wynn does not teach expressly,

- detecting a voice in an audio portion of the conference;

- converting the voice to text;
- comparing the text to the conference item, wherein the conference item is an agenda;
- determining that a substantive portion of the conference has started based on the comparison, the substantive portion of the conference associated with an agenda item; and
- transmitting a notification to the client device that indicates that the substantive portion of the conference has started.

However, Decrop teaches,

- detecting a voice in an audio portion of the conference (Decrop; speakers verbal speech output analyzed; col 7 line 42-47);
- converting the voice to text (Decrop; convert speech-to-text of speaker speech; col 42-50);
- comparing the text to the conference item, wherein the conference item is an agenda (Decrop; the output speech-to-text text compared with common topics identified based on semantic similarity between the topics of the speaker and common topics; col 7 46-49);
- determining that a substantive portion of the conference has started based on the comparison, the substantive portion of the conference associated with an agenda item (Decrop; the output speech-to-text text compared with common topics identified based on semantic similarity between the topics of the speaker and common topics (speaker's topic equating as meeting agenda); col 7 line 46-49); and

- transmitting a notification to the client device that indicates that the substantive portion of the conference has started (Decrop; the speaker's verbal communication during the meeting may be analyzed to have topics identified this correlate that video conference started; col 7 line 45-61).

Therefore, it would have been obvious to one of the ordinary skills in the art, before the invention was filed to include Decrop technique of convert speaker speech-to text and compare topics to modify managing the conference with participant with agenda of Wynn. It would have been motivated to make such combination to enable user to analyze accurately what the speaker says during the presentation by converting speech-to-text.

Claims 10 is system claim that corresponding to method claim 6. Therefore, claim is rejected for the same reason as claim 6 above.

Claims 18 is non-transitory computer-readable storage device claim that corresponding to method claim 5. Therefore, claim is rejected for the same reason as claim 5 above.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Applicant is required under 37 CFR § 1.111(c) to consider these references fully when responding to this action.

Laird-McConnell et al. (US 11,349,679 B2) teaches user interface includes an agenda area and participant area where topics discuss ([col 8 lines 44-67; figure 3B]).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PARMANAND D PATEL whose telephone number is (571)270-7283. The examiner can normally be reached on Monday-Friday (IFP) 8:30-5:00.

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, Jennifer Welch can be reached on 571-272-7212. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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

/PARMANAND PATEL/
Examiner, Art Unit 2143

/JENNIFER N WELCH/
Supervisory Patent Examiner, Art Unit 2143

Notice of References Cited	Application/Control No. 17/472,033	Applicant(s)/Patent Under Reexamination Swerdlow, Nick	
	Examiner PARMANAND D PATEL	Art Unit 2143	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20180039951-A1	02-2018	WYNN; Patrick	G06Q10/1095	1/1
*	B	US-20150281149-A1	10-2015	Masterson; Joseph	H04L51/046	715/752
*	C	US-11245735-B1	02-2022	Kwatra; Shikhar	H04L65/1089	1/1
*	D	US-11488634-B1	11-2022	Decrop; Clement	G11B27/028	1/1
*	E	US-11349679-B1	05-2022	Laird-McConnell; Thomas Matthew	H04L12/1831	1/1
	F					
	G					
	H					
	I					
	J					
	K					
	L					
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FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

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

Zoom Communications, Inc. v. Ricoh Company, Ltd.
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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/472,033	Swerdlow, Nick
	Examiner	Art Unit
	PARMANAND D PATEL	2143

CPC - Searched*		
Symbol	Date	Examiner
H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166	11/17/2022	PP

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

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

Search Notes		
Search Notes	Date	Examiner
PE2E search including limited text search combine with CPC symbols using East databases (USPGPUB; USPAT; FPRS; USOCR; EPO; JPO)	11/17/2022	PP
Use PE2E SEARCH and PALM to search inventors and assignee	11/17/2022	PP
Use google scholar to search prior arts	11/17/2022	PP

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/PARMANAND D PATEL/ Examiner, Art Unit 2143	

Zoom Communications, Inc. v. Ricoh Company, Ltd.
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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/472,033	Swerdlow, Nick
	Examiner	Art Unit
	PARMANAND D PATEL	2143

✓	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	11/18/2022								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								
	10	✓								
	11	✓								
	12	✓								
	13	✓								
	14	✓								
	15	✓								
	16	✓								
	17	✓								
	18	✓								
	19	✓								
	20	✓								

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PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	0	"17472033"	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/14 08:51 AM
L2	5	((("SWERDLOW") near3 ("Nick"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/11/14 08:52 AM
L3	54	((("ZOOM") near3 ("VIDEO") near3 ("COMMUNICATIONS") near3 ("INC"))).AS,AANM.	(USPAT)	OR	ON	ON	2022/11/14 09:00 AM
L4	355	((("ZOOM") near3 ("VIDEO") near3 ("COMMUNICATIONS") near3 ("INC"))).AS,AANM.	(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	2022/11/14 09:00 AM
L5	175649	(H04L65/403 or G06F3/1454 or G10L15/10 or G10L15/26 or G06F40/166).cpc.	(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	2022/11/14 09:01 AM
L6	0	L2 AND ((conference NEAR preview$3) AND (graphical NEAR output) AND (join$3 near2 conference) AND (panel NEAR interface)).clm.	(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,	OR	ON	ON	2022/11/14 09:04 AM

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			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)				
L7	0	L4 AND ((conference NEAR preview$3) AND (graphical NEAR output) AND (join$3 near2 conference) AND (panel NEAR interface)).clm.	(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	2022/11/14 09:04 AM
L8	11178	(obtain$4 acquir$4 receiv$4) WITH (conference meeting seminar) WITH (item agenda content points) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/14 09:08 AM
L9	1435	(obtain$4 acquir$4 receiv$4) WITH (conference meeting seminar) WITH (item agenda content points) SAME (panel interface) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/14 09:09 AM
L10	1583	(obtain$4 acquir$4 receiv$4) WITH (conference meeting seminar) WITH (item agenda content points subject) SAME (panel interface) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/14 09:09 AM
L11	560	(obtain$4 acquir$4 receiv$4) WITH (conference meeting seminar) WITH (item agenda content points subject) SAME (panel interface) SAME (display viewing) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/14 09:10 AM
L12	163	L11 AND L5	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/14 09:11 AM
L13	6	(US-20030189601-$ |	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/15

		US-20070239827-$ | US-20110107228-$ | US-20031009-$ | US-20071011-$ | US-20110505-$ | US-6853398-$ | US-7603412-$ | US-9165290-$).DID.					10:22 AM
L15	9	(US-20100153160-$ | US-20120150577-$ | US-20150088572-$ | US-20220141044-$ | US-10554728-$ | US-11144887-$ | US-20120614-$ | US-9699411-$ | US-9912777-$ | US-8589487-$).DID.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/15 10:25 AM
L16	15	L13 OR L15	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/15 10:25 AM
L17	944	(obtain$4 acquir$4 receiv$4) WITH (conference meeting seminar) WITH (item agenda content points) WITH (document file) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/16 03:40 PM
L18	55	(obtain$4 acquir$4 receiv$4) WITH (conference meeting seminar) WITH (item agenda content points) WITH (document file) near5 (edit editable annotation modif$7) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/16 03:41 PM
L19	3	("20180039951" "20180217801" "11483170").pn.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/16 03:53 PM
L20	28	(transmit$5 send$4 transfer$4) WITH (updated modified changed modification) WITH (item agenda content document file) SAME (notification alert message) SAME (on$line video web) near5 (conference meeting seminar) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/17 03:39 PM
L21	53	(transmit$5 send$4 transfer$4) WITH (updated modified changed modification) SAME (item agenda	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/17 03:45 PM

		content document file) SAME (notification alert message) SAME (on$line video web) near5 (conference meeting seminar) AND @ad<"20210910"					
L22	25	L21 NOT L20	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/17 03:45 PM
L23	66	(transmit$5 send$4 transfer$4) WITH (updated modified changed modification edited) SAME (item agenda content document file) SAME (notification alert message) SAME (on$line video web) near5 (conference meeting seminar) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/17 03:46 PM
L24	40	(transmit$5 send$4 transfer$4) WITH (updated modified changed modification edited) WITH (item agenda content document file) SAME (notification alert message) SAME (on$line video web) near5 (conference meeting seminar) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/17 03:47 PM
L25	12	L24 NOT L20	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/17 03:47 PM
L26	680	(display presentation view screen$shar$4) WITH (topic agenda subject) SAME (on$line video web) near5 (conference meeting seminar) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/17 10:44 PM
L27	331	(display presentation view screen$shar$4) near5 (topic agenda subject) SAME (on$line video web) near5 (conference meeting seminar) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/17 10:44 PM
L28	0	(screen$shar$4) near5 (topic agenda subject) SAME (on$line video	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/17 10:45 PM

		web) near5 (conference meeting seminar) AND @ad<"20210910"					
L29	2	(screen$shar$4) SAME (topic agenda subject) SAME (on$line video web) near5 (conference meeting seminar) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/17 10:45 PM
L30	31	(transmit$5 send$4 transfer$4) WITH (notification alert message) WITH (on$line video web) near5 (conference meeting seminar) WITH (started begin) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/17 11:07 PM
L31	82	(transmit$5 send$4 transfer$4) WITH (notification alert message) SAME (on$line video web) near5 (conference meeting seminar) WITH (started begin) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/17 11:19 PM
L32	51	L31 NOT L30	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/17 11:20 PM
L33	24	(transmit$5 send$4 transfer$4) WITH (notification alert message pop$1up) SAME (on$line video web) near5 (conference meeting seminar) WITH (started) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/17 11:28 PM
L34	1	"11245735".pn.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/17 11:34 PM
L35	665	(detect$4 identif$4 determin$4) WITH (audio voice speech) WITH (text) SAME (on$line video web) near5 (conference meeting seminar) AND @ad<"20210910"	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/18 12:01 AM
L36	72	(detect$4 identif$4 determin$4) WITH (audio voice speech) WITH (text) SAME (topic agenda subject) SAME (on$line video web) near5 (conference	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/18 12:02 AM

L37	3	meeting seminar) AND @ad<"20210910" ("20220276879" "11349679" "201201505877" "20180217801" "11783170").pn.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/18 08:49 AM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-22)
Approved for use through 05/31/2024. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17472033
Filing Date	2021-09-10
First Named Inventor	Nick Swerdlow
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	ZOOM-164-C

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8589487		2013-11-19	Reeves et al.	

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

ALL REFERENCES CONSIDERED EXCEPT WHERE [illegible]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17472033
	Filing Date	2021-09-10
	First Named Inventor	Nick Swerdlow
	Art Unit	N/A
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	ZOOM-164-C

	1	

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EXAMINER SIGNATURE

Examiner Signature	/PARMANAND D PATEL/	Date Considered	11/18/2022

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

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

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17472033
Filing Date	2021-09-10
First Named Inventor	Nick Swerdlow
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	ZOOM-164-C

CERTIFICATION STATEMENT

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

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

OR

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

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Neil C. Maskeri/	Date (YYYY-MM-DD)	2022-09-27
Name/Print	Neil C. Maskeri	Registration Number	61,591

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

Zoom Communications, Inc. v. Ricoh Company, Ltd.
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The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Zoom Communications, Inc. v. Ricoh Company, Ltd.
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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	17/472,033
Filing Date	
First Named Inventor	Nick Swerdlow
Art Unit	N/A 2143
Examiner Name	Not Yet Assigned Parmanand Patel
Attorney Docket Number	ZOOM-164-C

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6853398		2005-02-08	Malzbender et al.	
	2	7603412		2009-10-13	Beyda	
	3	9165290		2015-10-20	Wessling et al.	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20110107228	A1	2011-05-05	Huang	
	2	20070239827	A1	2007-10-11	Deboy et al.	
	3	20030189601	A1	2003-10-09	Ben-Shachar et al.	

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Examiner Name	Not Yet Assigned
Attorney Docket Number	ZOOM-164-C

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Examiner Signature	/PARMANAND D PATEL/	Date Considered	11/18/2022

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Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 441 of 547

ALL REFERENCES CONSIDERED EXCEPT WHERE [illegible]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)	Application Number	
	Filing Date	
	First Named Inventor	Nick Swerdlow
	Art Unit	N/A
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	ZOOM-164-C

CERTIFICATION STATEMENT

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

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Signature	/Neil C. Maskeri/	Date (YYYY-MM-DD)	2021-09-10
Name/Print	Neil C. Maskeri	Registration Number	61,591

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Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 442 of 547

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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

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(Not for submission under 37 CFR 1.99)

Application Number	17472033
Filing Date	2021-09-10
First Named Inventor	Nick Swerdlow
Art Unit	N/A 2143
Examiner Name	Not Yet Assigned Parmanand Patel
Attorney Docket Number	ZOOM-164-C

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	1	20220141044		2022-05-05	Burpee	

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	Art Unit	N/A
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	ZOOM-164-C

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Signature	/Neil C. Maskeri/	Date (YYYY-MM-DD)	2022-10-19
Name/Print	Neil C. Maskeri	Registration Number	61,591

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Zoom Communications, Inc. v. Ricoh Company, Ltd.
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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

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Approved for use through 05/31/2024. OMB 0651-0031
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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	10554728	B2	2020-02-04	Reyes	
	2	9912777	B2	2018-03-06	Johar et al.	
	3	9699411	B2	2017-07-04	Nelson et al.	
	4	11144887		2021-10-12	Wender	

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	1	20120150577	A1	2012-06-14	Berg et al.	
	2	20100153160	A1	2010-06-17	BEZEMER et al.	

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	Application Number	17472033
	Filing Date	2021-09-10
	First Named Inventor	Nick Swerdlow
	Art Unit	N/A
	Examiner Name	Not Yet Assigned
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	3	20150088572	A1	2015-03-26	Mai et al.	

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Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 451 of 547

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH.

Review and functional classification of collaborative systems

G Baloutsos, G Mentzas - International journal of Information management, 2002 - Elsevier

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UM Borghoff, JH Schlichter - Computer-supported cooperative work, 2000 - Springer

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TD LaToza, D Garlan, JD Herbsleb… - … conference and the ACM …, 2007 - dl.acm.org

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M Vakola, IE Wilson - Team Performance Management: An …, 2004 - emerald.com

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… **file** systems, explicit **file transfer**, and electronic **message** … , or cooperate in debugging a **program**. Our project focuses on … **modifications** are not simply "fixes" to make **conferencing** …

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Beyond the chalkboard: Computer support for **collaboration** and problem solving in **meetings**

M Stefik, G Foster, DG Bobrow, K Kahn... - Communications of the ..., 1987 - dl.acm.org

... **message sending**. Ideally, one should be able to take a **program** written for a single machine and **change** it ... In debugging sessions, we have found it useful to make **program changes** on ...

☆ Save 99 Cite Cited by 1538 Related articles All 21 versions

Cloud computing: Web-based applications that **change** the way you work and collaborate online

M Miller - 2008 - books.google.com

... I can't promise that I'll answer every **message**, but I do promise to read each one! ... about the **program**, from the interface to the **document** you're working on, has to be **sent** back and forth ...

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Multimedia **Conference** Control in a Packet~ switched **Teleconferencing** System

ISIR Series - Journal of Internetworking: Research and Experience, 1993 - isi.edu

... of the multimedia **conference** control **program** (MMCC), the ... any member may initiate or accept these **modifications**. A ... list of **participants** are **sent** the same **message** simultaneously from ...

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PTO/SB/08a (01-22)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17472033
Filing Date	2021-09-10
First Named Inventor	Nick Swerdlow
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	ZOOM-164-C

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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If you wish to add additional U.S. Patent citation information please click the Add button. Add

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20220141044		2022-05-05	Burpee	

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FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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Examiner Signature		Date Considered	

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

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CERTIFICATION STATEMENT

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OR

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

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Neil C. Maskeri/	Date (YYYY-MM-DD)	2022-10-19
Name/Print	Neil C. Maskeri	Registration Number	61,591

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

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3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	46851489
Application Number:	17472033
International Application Number:	
Confirmation Number:	1532
Title of Invention:	Previewing Conference Items Prior To Joining A Conference
First Named Inventor/Applicant Name:	Nick Swerdlow
Customer Number:	177453
Filer:	Neil C. Maskeri/Jessica Tumblin
Filer Authorized By:	Neil C. Maskeri
Attorney Docket Number:	ZOOM-164-C
Receipt Date:	19-OCT-2022
Filing Date:	10-SEP-2021
Time Stamp:	15:36:57
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	ZOOM164C_Information_Disclosure_Statement_Fillable_PDF_20221019.pdf	1263069 ea35bf7a408cc3470b482a2538d1d8f5a4754523	no	4

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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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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17472033
Filing Date	2021-09-10
First Named Inventor	Nick Swerdlow
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	ZOOM-164-C

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8589487		2013-11-19	Reeves et al.	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

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

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See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

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Signature	/Neil C. Maskeri/	Date (YYYY-MM-DD)	2022-09-27
Name/Print	Neil C. Maskeri	Registration Number	61,591

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

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Electronic Acknowledgement Receipt

EFS ID:	46701739
Application Number:	17472033
International Application Number:	
Confirmation Number:	1532
Title of Invention:	Previewing Conference Items Prior To Joining A Conference
First Named Inventor/Applicant Name:	Nick Swerdlow
Customer Number:	177453
Filer:	Neil C. Maskeri/Jessica Tumblin
Filer Authorized By:	Neil C. Maskeri
Attorney Docket Number:	ZOOM-164-C
Receipt Date:	27-SEP-2022
Filing Date:	10-SEP-2021
Time Stamp:	13:46:08
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	ZOOM164C_Information_Disclosure_Statement_Fillable_PDF_20220927.pdf	1263104 f8ea2586d7410b2ee83a38dabf2ceec6c03cb562	no	4

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

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New International Application Filed with the USPTO as a Receiving Office

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PTO/SB/08a (01-22)
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Filing Date	2021-09-10
First Named Inventor	Nick Swerdlow
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	ZOOM-164-C

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	10554728	B2	2020-02-04	Reyes	
	2	9912777	B2	2018-03-06	Johar et al.	
	3	9699411	B2	2017-07-04	Nelson et al.	
	4	11144887		2021-10-12	Wender	

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	1	20120150577	A1	2012-06-14	Berg et al.	
	2	20100153160	A1	2010-06-17	BEZEMER et al.	

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	Filing Date	2021-09-10
	First Named Inventor	Nick Swerdlow
	Art Unit	N/A
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	ZOOM-164-C

	3	20150088572	A1	2015-03-26	Mai et al.	

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FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
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NON-PATENT LITERATURE DOCUMENTS Remove

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

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

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See attached certification statement.

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☒ A certification statement is not submitted herewith.

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Signature	/Neil C. Maskeri/	Date (YYYY-MM-DD)	2022-04-06
Name/Print	Neil C. Maskeri	Registration Number	61,591

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

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	45410328
Application Number:	17472033
International Application Number:	
Confirmation Number:	1532
Title of Invention:	Previewing Conference Items Prior To Joining A Conference
First Named Inventor/Applicant Name:	Nick Swerdlow
Customer Number:	177453
Filer:	Neil C. Maskeri/Jessica Tumblin
Filer Authorized By:	Neil C. Maskeri
Attorney Docket Number:	ZOOM-164-C
Receipt Date:	06-APR-2022
Filing Date:	10-SEP-2021
Time Stamp:	16:52:08
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	ZOOM164C_Information_Disclosure_Statement_Fillable_PDF_20220406.pdf	1263433 851a1a2050cf3a78ae7630506a6f6d7a64fbb295	no	4

Warnings:

Information:	
Total Files Size (in bytes):	1263433

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
17/472,033	09/10/2021	2447	1820	ZOOM-164-C	20	3

CONFIRMATION NO. 1532

FILING RECEIPT

177453
Zoom Video Communications, Inc. at Young Basile
3001 West Big Beaver Rd., Ste. 624
Troy, MI 48084

OC000000128566322

Date Mailed: 09/23/2021

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Nick Swerdlow, Santa Clara, CA;

Applicant(s)

Zoom Video Communications, Inc., San Jose, CA;

Power of Attorney: The patent practitioners associated with Customer Number 177453

Domestic Applications for which benefit is claimed - None.
A proper domestic benefit claim must be provided in an Application Data Sheet in order to constitute a claim for domestic benefit. See 37 CFR 1.76 and 1.78.

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 472 of 547

If Required, Foreign Filing License Granted: 09/21/2021

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/472,033**

Projected Publication Date: 03/16/2023

Non-Publication Request: No

Early Publication Request: No

Title

Previewing Conference Items Prior To Joining A Conference

Preliminary Class

709

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

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

Zoom Communications, Inc. v. Ricoh Company, Ltd.
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LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

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

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

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

NOT GRANTED

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

SelectUSA

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

Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 474 of 547

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 17/472,033

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	320
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	700
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	800
TOTAL CLAIMS (37 CFR 1.16(i))	20 minus 20 =	*			OR	x 100 =	0.00
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*				x 480 =	0.00
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0.00
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	1820

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)		RATE($)	ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

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

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82A (07-13)
Approved for use through 03/31/2021. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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.

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

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

Application Number	Not Yet Assigned
Filing Date	Concurrently Herewith
First Named Inventor	Nick Swerdlow
Title	Previewing Conference Items Prior To Joining A Conference
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	ZOOM-164-C

SIGNATURE of Applicant or Patent Practitioner

Signature	/Neil C. Maskeri/	Date (Optional)	September 10, 2021
Name	Neil C. Maskeri	Registration Number	61,591
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

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

☐ *Total of 1 forms are submitted.

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82B (07-13)
Approved for use through 03/31/2021. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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

POWER OF ATTORNEY BY APPLICANT

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

Application Number	Filing Date

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

[X] I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 177453

OR

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

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

[X] The address associated with the above-mentioned Customer Number

OR

[ ] The address associated with Customer Number:

OR

[ ] Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

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

Zoom Video Communications, Inc.

[ ] Inventor or Joint Inventor (title not required below)

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

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

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

SIGNATURE of Applicant for Patent

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

Signature	Lopa Sengupta	Date (Optional)	JANUARY 27, 2021
Name	Lopa Sengupta		
Title	Senior Counsel, Patent Portfolio at Zoom Video Communications, Inc.		

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

[ ] Total of 1 forms are submitted.

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	Previewing Conference Items Prior To Joining A Conference
First Named Inventor/Applicant Name:	Nick Swerdlow
Filer:	Neil C. Maskeri/Jessica Tumblin
Attorney Docket Number:	ZOOM-164-C

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY APPLICATION FILING	1011	1	320	320
UTILITY SEARCH FEE	1111	1	700	700
UTILITY EXAMINATION FEE	1311	1	800	800
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**1820**

Electronic Acknowledgement Receipt

EFS ID:	43736742
Application Number:	17472033
International Application Number:	
Confirmation Number:	1532
Title of Invention:	Previewing Conference Items Prior To Joining A Conference
First Named Inventor/Applicant Name:	Nick Swerdlow
Customer Number:	177453
Filer:	Neil C. Maskeri/Jessica Tumblin
Filer Authorized By:	Neil C. Maskeri
Attorney Docket Number:	ZOOM-164-C
Receipt Date:	10-SEP-2021
Filing Date:	
Time Stamp:	16:19:08
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1820
RAM confirmation Number	E202190G19391973
Deposit Account	250115
Authorized User	Jessica Tumblin

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

37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

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	Application Data Sheet	ZOOM164C_Application_Data_Sheet_Fillable_PDF_20210910.pdf	1255379 febad9dc3314e3f59136d9a254f5a8bd74025e33	no	8
Warnings:					
Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	ZOOM164C_Information_Disclosure_Statement_Fillable_PDF_20210910.pdf	1034251 957a894b8f3dd53efc1cbadef9776fd7e8851b0a	no	4
Warnings:					
Information:					
3		ZOOM164C_Application.pdf	165843 8c09d3c5f8c0388c034b3b1e5dda37d7b8e0d308	yes	42

Multipart Description/PDF files in .zip description

Document Description	Start	End
Specification	1	36
Claims	37	41
Abstract	42	42

Warnings:					
Information:					
4	Drawings-only black and white line drawings	ZOOM164C_Drawings.pdf	139915 09ad7046758edd39345a83de499444510ab1c333	no	10
Warnings:					
Information:					
5	Oath or Declaration filed	ZOOM164C_ExecutedDec.pdf	69913 77d46634da9146f02f72426b2ccc5de598d70346	no	1

Warnings:					
Information:					
6	Power of Attorney	ZOOM164C_POATransmittal.pdf	16131 3028762304201 4e299cc6c72b422c41851e46364	no	1
Warnings:					
Information:					
7	Power of Attorney	Zoom_POA_Executed_-_US_General.pdf	349029 5fa155b9bc237b856aee93907fb549e5b2d2563c	no	1
Warnings:					
Information:					
8	Fee Worksheet (SB06)	fee-info.pdf	44223 7b86ff80b6acf5d352232e287f205cb0df640cfc	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	3074684		

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

<u>New Applications Under 35 U.S.C. 111</u>
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
<u>National Stage of an International Application under 35 U.S.C. 371</u>
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/AIA/14 (02-18)
Approved for use through 11/30/2020. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	ZOOM-164-C
	Application Number	
Title of Invention	Previewing Conference Items Prior To Joining A Conference	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

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

Inventor Information:

Inventor 1 — Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Nick		Swerdlow	

Residence Information (Select One) ● US Residency Non US Residency Active US Military Service

City	State/Province	Country of Residence
Santa Clara	CA	US

Mailing Address of Inventor:

Address 1	55 Almaden Blvd.
Address 2	6th Floor

City	State/Province	Postal Code	Country
San Jose	CA	95113	US

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

Correspondence Information:

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

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

Customer Number	177453		
Email Address	docketing@youngbasile.com	Add Email	Remove Email

Application Information:

Title of the Invention	Previewing Conference Items Prior To Joining A Conference		
Attorney Docket Number	ZOOM-164-C	**Small Entity Status Claimed**	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	10	**Suggested Figure for Publication (if any)**	

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PTO/AIA/14 (02-18)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	ZOOM-164-C
	Application Number	
Title of Invention	Previewing Conference Items Prior To Joining A Conference	

Filing By Reference:

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

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

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

Publication Information:

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

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

Representative Information:

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

Please Select One:	● Customer Number	US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	48980		

Domestic Benefit/National Stage Information:

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

Prior Application Status			Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)

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

Zoom Communications, Inc. v. Ricoh Company, Ltd.
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	ZOOM-164-C
	Application Number	
Title of Invention	Previewing Conference Items Prior To Joining A Conference	

Foreign Priority Information:

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

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

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

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

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

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	ZOOM-164-C
	Application Number	
Title of Invention	Previewing Conference Items Prior To Joining A Conference	

Authorization or Opt-Out of Authorization to Permit Access:

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

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

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

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

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

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

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

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

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

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

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	ZOOM-164-C
	Application Number	
Title of Invention	Previewing Conference Items Prior To Joining A Conference	

Applicant Information:

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

Applicant 1 — Remove

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

● Assignee	Legal Representative under 35 U.S.C. 117	Joint Inventor
Person to whom the inventor is obligated to assign.	Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	Zoom Video Communications, Inc.		
Mailing Address Information For Applicant:			
Address 1	55 Almaden Blvd.		
Address 2	6th Floor		
City	San Jose	**State/Province**	CA
Country	US	Postal Code	95113
Phone Number	(888) 799-9666	Fax Number	
Email Address			

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

Assignee Information including Non-Applicant Assignee Information:

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

Zoom Communications, Inc. v. Ricoh Company, Ltd.
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	ZOOM-164-C
	Application Number	
Title of Invention	Previewing Conference Items Prior To Joining A Conference	

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

Remove

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button. Add

Signature:

Remove

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Neil C. Maskeri/			Date (YYYY-MM-DD)	2021-09-10
First Name	Neil	Last Name	Maskeri	Registration Number	61,591

Additional Signature may be generated within this form by selecting the Add button. Add

Zoom Communications, Inc. v. Ricoh Company, Ltd.
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	ZOOM-164-C
	Application Number	
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Zoom Communications, Inc. v. Ricoh Company, Ltd.
IPR2026-00407 | EX2009 | Page 489 of 547

Privacy Act Statement

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

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

1 The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3 A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent CooperationTreaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	
First Named Inventor	Nick Swerdlow
Art Unit	N/A
Examiner Name	Not Yet Assigned
Attorney Docket Number	ZOOM-164-C

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6853398		2005-02-08	Malzbender et al.	
	2	7603412		2009-10-13	Beyda	
	3	9165290		2015-10-20	Wessling et al.	

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

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20110107228	A1	2011-05-05	Huang	
	2	20070239827	A1	2007-10-11	Deboy et al.	
	3	20030189601	A1	2003-10-09	Ben-Shachar et al.	

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

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Nick Swerdlow
	Art Unit	N/A
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	ZOOM-164-C

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

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

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

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Nick Swerdlow
	Art Unit	N/A
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	ZOOM-164-C

CERTIFICATION STATEMENT

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

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

OR

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

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Neil C. Maskeri/	Date (YYYY-MM-DD)	2021-09-10
Name/Print	Neil C. Maskeri	Registration Number	61,591

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

PREVIEWING CONFERENCE ITEMS PRIOR TO JOINING A CONFERENCE

BACKGROUND

[0001] Enterprise entities rely upon several modes of communication to support their operations, including telephone, email, internal messaging, and the like. These separate modes of communication have historically been implemented by service providers whose services are not integrated with one another. The disconnect between these services, in at least some cases, requires information to be manually passed by users from one service to the next. Furthermore, some services, such as telephony services, are traditionally delivered via on-premises systems, meaning that remote workers and those who are generally increasingly mobile may be unable to rely upon them. One type of system which addresses problems such as these includes a unified communications as a service (UCaaS) platform, which includes several communications services accessible over a network, such as the Internet, to deliver a complete communication experience regardless of physical location.

SUMMARY

[0002] Disclosed herein are, *inter alia*, implementations of systems and techniques for enabling access to conference features at a client device without a connection between the client device and a conference.

[0003] One aspect of this disclosure is a method that may include obtaining a conference item associated with a conference. The method may include transmitting a first graphical output to display an indicator of the conference item on a display of a client device. Prior to the client device joining the conference, the method may include receiving a request from the client device to view the conference item. Prior to the client device joining the conference, the method may include transmitting a second graphical output to the client device based on the request to display the conference item.

[0004] Another aspect of this disclosure is a system for conference previewing. The system may include a server and a client device. The server may be configured to obtain a conference item associated with a conference. The server may be configured to transmit a first graphical

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output based on the conference item. The client device may be configured to display the first graphical output including an indicator of the conference item. Prior to the client device joining the conference, the server may be configured to receive a request from the client device to view the conference item. Prior to the client device joining the conference, the server may be configured to transmit a second graphical output to the client device based on the request. Prior to the client device joining the conference, the client device may be configured to display the conference item.

[0005] Another aspect of this disclosure is a non-transitory computer-readable storage device including program instructions that, when executed by a processor, cause the processor to perform operations. The operations may include obtaining a conference item associated with a conference. The operations may include transmitting a first graphical output to display an indicator of the conference item on a display of a client device. Prior to the client device joining the conference, the operations may include receiving a request to view the conference item. Prior to the client device joining the conference, the operations may include transmitting a second graphical output to the client device to display the conference item.

BRIEF DESCRIPTION OF THE DRAWINGS

[0006] This disclosure is best understood from the following detailed description when read in conjunction with the accompanying drawings. It is emphasized that, according to common practice, the various features of the drawings are not to-scale. On the contrary, the dimensions of the various features are arbitrarily expanded or reduced for clarity.

[0007] FIG. 1 is a block diagram of an example of an electronic computing and communications system.

[0008] FIG. 2 is a block diagram of an example internal configuration of a computing device of an electronic computing and communications system.

[0009] FIG. 3 is a block diagram of an example of a software platform implemented by an electronic computing and communications system.

[0010] FIG. 4 is a block diagram of an example of a system for providing a client device access to conference features without a connection between the client device and the conference.

[0011] FIG. 5 is a swim lane diagram of an example of a system for providing a client device access to conference participant information without a connection between the client device and

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the conference.

[0012] FIG. 6 is a swim lane diagram of an example of a system for providing a client device access to a conference messaging application without a connection between the client device and the conference.

[0013] FIG. 7 is a swim lane diagram of an example of a system for providing a client device access to conference items without a connection between the client device and the conference.

[0014] FIG. 8 is a flowchart of an example of a method for providing a client device access to conference participant information without a connection between the client device and the conference.

[0015] FIG. 9 is a flowchart of an example of a method for providing a client device access to a conference messaging application without a connection between the client device and the conference.

[0016] FIG. 10 is a flowchart of an example of a method for providing a client device access to conference items without a connection between the client device and the conference.

DETAILED DESCRIPTION

[0017] A software platform, such as a UCaaS platform, may facilitate a conference between multiple participants, such as over conferencing software of the software platform. Typically, a user of conferencing software must first join a conference before being able to access features of that conference, for example, a list of other participants who have already joined the conference, functionality for messaging those participants who have already joined the conference, and an agenda for the conference. In particular, because conventional conferencing software systems require a channel be opened between a user device and the server implementing a conference before conference features can be accessed by a user, such systems do not allow a user to preview conference features without joining a conference. This technical limitation creates challenges in several types of scenarios, as will be discussed.

[0018] In one example, where a user is running late to a conference, the user may find themselves frustrated when they join the conference late only to find out that no other participants have joined or that the stakeholders have not yet joined. Often times the user may leave a current conference early, before it ends, in order to timely join a next conference only to find themselves waiting for other late participants. Knowing in advance which participants have

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joined such a next conference can help the user determine an appropriate time to join the conference, whether by leaving a current conference or otherwise. However, conventional conferencing software systems do not have the capability to allow a user device to access participant information for a conference without the user device connecting to the conference.

[0019] In another example, where a user is running late for a conference in progress, the user may want to contact one or more participants that have already joined the conference to notify them that they are running late or for other purposes. A typical solution is that the user sends an email to all the invitees of the conference; however, this is wasteful and annoying for invitees who declined the conference invitation, and in many cases the conference participants who are actively paying attention to the conference may simply ignore the email message. Conventional conferencing software systems do not have the capability to allow the user, via their user device, to communicate with one or more participants in the conference using an in-conference communication application without the user device connecting to the conference.

[0020] In yet another example, a user may join a conference without having any idea of what the conference is about. This could be because the user has consecutive conferences scheduled throughout the day and does not have time to prepare for a particular conference, the user has overlapping scheduled conferences, the user has multiple conferences scheduled for the same time slot, the title of the conference is ambiguous (e.g., "discuss problems"), or any combination thereof. Joining a conference unprepared can be embarrassing for the user and a waste of time for other conference participants while the user is briefed on the missed portion of the conference. In this situation, the user may want to preview one or more conference items prior to joining the conference in progress. The one or more conference items may include, and are not limited to, a list of topics to be addressed during the conference (e.g., an agenda), a presentation (e.g., a screen share), a real-time transcript, or any file or document that is associated with the conference. However, conventional conferencing software systems do not have the capability to allow a user device to access conference items without the user device connecting to the conference.

[0021] Implementations of this disclosure address problems such as these a using a conferencing system that enables client device access to one or more conference features prior to the client device joining a conference. The conferencing system may generate and store a conference object when a conference is initiated. The conference object may represent a

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conference that is in progress, a future conference, or a conference that occurred in the past. The conference object can include a list of conference participants, participant messaging data, one or more conference items, or any combination thereof. Each conference participant is associated with an attribute that indicates whether they accepted the conference invite, declined the conference invite, has joined the conference, a messaging status, a presentation status, an audio status, a video status, or any combination thereof. The participant messaging data may include a log of participant chat messages in a conference chat room, for example.

[0022] In an example, to enable a user of a client device to preview the participants in a conference without the client device connecting to the conference, the conferencing system may obtain calendar data to generate a graphical output. The graphical output may be a graphical user interface that includes a conference description, a conference topic or list thereof, a conference start time, a conference end time, a conference location, two or more conference participants, two or more conference participant invite statuses, or any combination thereof. The conferencing system is configured to transmit the graphical output for display on a client device that has not yet joined the conference. The conferencing system is configured to determine participant information. The participant information may include a participant invite status, a participant attendance status, a participant attendance time, a participant audio status, a participant video status, a representation of a participant, or any combination thereof. The participant invite status may include an indicator that indicates whether a given participant accepted or declined the conference invite. The participant attendance status may include an indicator that indicates that a given participant has joined the conference, has not joined the conference, or joined the conference and subsequently left the conference. The participant attendance time may include an indicator that indicates a time that a given participant joined the conference or a duration of time that the participant has been in the conference. The participant audio status may include an indicator that indicates that at a given time a given participant's microphone is on, the participant's microphone is muted, or that the participant is speaking. The participant video status may include an indicator that indicates that at a given time a given participant's video is on, the participant's video is off, or that the participant is presenting in the conference. A representation of the participant may include an avatar, a photograph, an icon, text, or any combination thereof. The conferencing system is configured to transmit a graphical output based on the participant information for display on the client device.

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[0023] In an example, to enable a user of a client device to message one or more conference participants without the client device connecting to a conference, the conferencing system is configured to obtain information regarding the conference, which may be a conference in-progress. The conference information can include a conference description, a conference topic or list thereof, a conference start time, a conference end time, a conference location, participant information, or any combination thereof. The conferencing system is configured to transmit a graphical output based on the conference information to a client device for display. Prior to the client device joining the conference, the conferencing system is configured to receive a message to initiate a communication with a participant that is in the conference. The communication may be a text communication, such as a chat, an audio communication, such as an audio chat, a video communication, such as a video chat, or any combination thereof. The conferencing system is configured to grant the client device access to communicate with the participant in the conference. In one example, when the client device is granted access to communicate with the participant in the conference, the client device may access an in-conference communication application to communicate with the participant. An in-conference communication application may be a chat room associated with a conference in progress that is configured for text messaging, audio messaging, video messaging, or any combination thereof. In another example, when the client device is granted access to communicate with the participant in the conference, the client device may access a communication application that is not associated with the conference to communicate with the participant.

[0024] In an example, to enable a user of a client device to preview one or more conference items without the client device connecting to a conference, the conferencing system is configured to obtain a conference item and transmit a graphical output based on the conference item to a client device for display. The conference item may include an editable document, an agenda or list of topics, a real-time transcript, a downloadable file, or a real-time presentation. The conferencing system is configured to receive a request to view the conference item and transmit a graphical output to the client device based on the request to display the conference item.

[0025] To describe some implementations in greater detail, reference is first made to examples of hardware and software structures used to implement a system for providing a client device access to conference features without a connection between the client device and the conference. FIG. 1 is a block diagram of an example of an electronic computing and

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communications system 100, which can be or include a distributed computing system (e.g., a client-server computing system), a cloud computing system, a clustered computing system, or the like.

[0026] The system 100 includes one or more customers, such as customers 102A through 102B, which may each be a public entity, private entity, or another corporate entity or individual that purchases or otherwise uses software services, such as of a UCaaS platform provider. Each customer can include one or more clients. For example, as shown and without limitation, the customer 102A can include clients 104A through 104B, and the customer 102B can include clients 104C through 104D. A customer can include a customer network or domain. For example, and without limitation, the clients 104A through 104B can be associated or communicate with a customer network or domain for the customer 102A and the clients 104C through 104D can be associated or communicate with a customer network or domain for the customer 102B.

[0027] A client, such as one of the clients 104A through 104D, may be or otherwise refer to one or both of a client device or a client application. Where a client is or refers to a client device, the client can comprise a computing system, which can include one or more computing devices, such as a mobile phone, a tablet computer, a laptop computer, a notebook computer, a desktop computer, or another suitable computing device or combination of computing devices. Where a client instead is or refers to a client application, the client can be an instance of software running on a customer device (e.g., a client device or another device). In some implementations, a client can be implemented as a single physical unit or as a combination of physical units. In some implementations, a single physical unit can include multiple clients.

[0028] The system 100 can include a number of customers and/or clients or can have a configuration of customers or clients different from that generally illustrated in FIG. 1. For example, and without limitation, the system 100 can include hundreds or thousands of customers, and at least some of the customers can include or be associated with a number of clients.

[0029] The system 100 includes a datacenter 106, which may include one or more servers. The datacenter 106 can represent a geographic location, which can include a facility, where the one or more servers are located. The system 100 can include a number of datacenters and servers or can include a configuration of datacenters and servers different from that generally illustrated in FIG. 1. For example, and without limitation, the system 100 can include tens of datacenters, and at least some of the datacenters can include hundreds or another suitable number of servers.

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In some implementations, the datacenter 106 can be associated or communicate with one or more datacenter networks or domains, which can include domains other than the customer domains for the customers 102A through 102B.

[0030] The datacenter 106 includes servers used for implementing software services of a UCaaS platform. The datacenter 106 as generally illustrated includes an application server 108, a database server 110, and a telephony server 112. The servers 108 through 112 can each be a computing system, which can include one or more computing devices, such as a desktop computer, a server computer, or another computer capable of operating as a server, or a combination thereof. A suitable number of each of the servers 108 through 112 can be implemented at the datacenter 106. The UCaaS platform uses a multi-tenant architecture in which installations or instantiations of the servers 108 through 112 is shared amongst the customers 102A through 102B.

[0031] In some implementations, one or more of the servers 108 through 112 can be a non-hardware server implemented on a physical device, such as a hardware server. In some implementations, a combination of two or more of the application server 108, the database server 110, and the telephony server 112 can be implemented as a single hardware server or as a single non-hardware server implemented on a single hardware server. In some implementations, the datacenter 106 can include servers other than or in addition to the servers 108 through 112, for example, a media server, a proxy server, or a web server.

[0032] The application server 108 runs web-based software services deliverable to a client, such as one of the clients 104A through 104D. As described above, the software services may be of a UCaaS platform. For example, the application server 108 can implement all or a portion of a UCaaS platform, including conferencing software, messaging software, and/or other intra-party or inter-party communications software. The application server 108 may, for example, be or include a unitary Java Virtual Machine (JVM).

[0033] In some implementations, the application server 108 can include an application node, which can be a process executed on the application server 108. For example, and without limitation, the application node can be executed in order to deliver software services to a client, such as one of the clients 104A through 104D, as part of a software application. The application node can be implemented using processing threads, virtual machine instantiations, or other computing features of the application server 108. In some such implementations, the application

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server 108 can include a suitable number of application nodes, depending upon a system load or other characteristics associated with the application server 108. For example, and without limitation, the application server 108 can include two or more nodes forming a node cluster. In some such implementations, the application nodes implemented on a single application server 108 can run on different hardware servers.

[0034] The database server 110 stores, manages, or otherwise provides data for delivering software services of the application server 108 to a client, such as one of the clients 104A through 104D. In particular, the database server 110 may implement one or more databases, tables, or other information sources suitable for use with a software application implemented using the application server 108. The database server 110 may include a data storage unit accessible by software executed on the application server 108. A database implemented by the database server 110 may be a relational database management system (RDBMS), an object database, an XML database, a configuration management database (CMDB), a management information base (MIB), one or more flat files, other suitable non-transient storage mechanisms, or a combination thereof. The system 100 can include one or more database servers, in which each database server can include one, two, three, or another suitable number of databases configured as or comprising a suitable database type or combination thereof.

[0035] In some implementations, one or more databases, tables, other suitable information sources, or portions or combinations thereof may be stored, managed, or otherwise provided by one or more of the elements of the system 100 other than the database server 110, for example, the client 104 or the application server 108.

[0036] The telephony server 112 enables network-based telephony and web communications from and to clients of a customer, such as the clients 104A through 104B for the customer 102A or the clients 104C through 104D for the customer 102B. Some or all of the clients 104A through 104D may be voice over internet protocol (VOIP)-enabled devices configured to send and receive calls over a network 114. In particular, the telephony server 112 includes a session initiation protocol (SIP) zone and a web zone. The SIP zone enables a client of a customer, such as the customer 102A or 102B, to send and receive calls over the network 114 using SIP requests and responses. The web zone integrates telephony data with the application server 108 to enable telephony-based traffic access to software services run by the application server 108. Given the combined functionality of the SIP zone and the web zone, the telephony server 112 may be or

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include a cloud-based private branch exchange (PBX) system.

[0037] The SIP zone receives telephony traffic from a client of a customer and directs same to a destination device. The SIP zone may include one or more call switches for routing the telephony traffic. For example, to route a VOIP call from a first VOIP-enabled client of a customer to a second VOIP-enabled client of the same customer, the telephony server 112 may initiate a SIP transaction between a first client and the second client using a PBX for the customer. However, in another example, to route a VOIP call from a VOIP-enabled client of a customer to a client or non-client device (e.g., a desktop phone which is not configured for VOIP communication) which is not VOIP-enabled, the telephony server 112 may initiate a SIP transaction via a VOIP gateway that transmits the SIP signal to a public switched telephone network (PSTN) system for outbound communication to the non-VOIP-enabled client or non-client phone. Hence, the telephony server 112 may include a PSTN system and may in some cases access an external PSTN system.

[0038] The telephony server 112 includes one or more session border controllers (SBCs) for interfacing the SIP zone with one or more aspects external to the telephony server 112. In particular, an SBC can act as an intermediary to transmit and receive SIP requests and responses between clients or non-client devices of a given customer with clients or non-client devices external to that customer. When incoming telephony traffic for delivery to a client of a customer, such as one of the clients 104A through 104D, originating from outside the telephony server 112 is received, an SBC receives the traffic and forwards it to a call switch for routing to the client.

[0039] In some implementations, the telephony server 112, via the SIP zone, may enable one or more forms of peering to a carrier or customer premise. For example, Internet peering to a customer premise may be enabled to ease the migration of the customer from a legacy provider to a service provider operating the telephony server 112. In another example, private peering to a customer premise may be enabled to leverage a private connection terminating at one end at the telephony server 112 and at the other end at a computing aspect of the customer environment. In yet another example, carrier peering may be enabled to leverage a connection of a peered carrier to the telephony server 112.

[0040] In some such implementations, an SBC or telephony gateway within the customer environment may operate as an intermediary between the SBC of the telephony server 112 and a PSTN for a peered carrier. When an external SBC is first registered with the telephony server

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112, a call from a client can be routed through the SBC to a load balancer of the SIP zone, which directs the traffic to a call switch of the telephony server 112. Thereafter, the SBC may be configured to communicate directly with the call switch.

[0041] The web zone receives telephony traffic from a client of a customer, via the SIP zone, and directs same to the application server 108 via one or more Domain Name System (DNS) resolutions. For example, a first DNS within the web zone may process a request received via the SIP zone and then deliver the processed request to a web service which connects to a second DNS at or otherwise associated with the application server 108. Once the second DNS resolves the request, it is delivered to the destination service at the application server 108. The web zone may also include a database for authenticating access to a software application for telephony traffic processed within the SIP zone, for example, a softphone.

[0042] The clients 104A through 104D communicate with the servers 108 through 112 of the datacenter 106 via the network 114. The network 114 can be or include, for example, the Internet, a local area network (LAN), a wide area network (WAN), a virtual private network (VPN), or another public or private means of electronic computer communication capable of transferring data between a client and one or more servers. In some implementations, a client can connect to the network 114 via a communal connection point, link, or path, or using a distinct connection point, link, or path. For example, a connection point, link, or path can be wired, wireless, use other communications technologies, or a combination thereof.

[0043] The network 114, the datacenter 106, or another element, or combination of elements, of the system 100 can include network hardware such as routers, switches, other network devices, or combinations thereof. For example, the datacenter 106 can include a load balancer 116 for routing traffic from the network 114 to various servers associated with the datacenter 106. The load balancer 116 can route, or direct, computing communications traffic, such as signals or messages, to respective elements of the datacenter 106.

[0044] For example, the load balancer 116 can operate as a proxy, or reverse proxy, for a service, such as a service provided to one or more remote clients, such as one or more of the clients 104A through 104D, by the application server 108, the telephony server 112, and/or another server. Routing functions of the load balancer 116 can be configured directly or via a DNS. The load balancer 116 can coordinate requests from remote clients and can simplify client access by masking the internal configuration of the datacenter 106 from the remote clients.

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[0045] In some implementations, the load balancer 116 can operate as a firewall, allowing or preventing communications based on configuration settings. Although the load balancer 116 is depicted in FIG. 1 as being within the datacenter 106, in some implementations, the load balancer 116 can instead be located outside of the datacenter 106, for example, when providing global routing for multiple datacenters. In some implementations, load balancers can be included both within and outside of the datacenter 106. In some implementations, the load balancer 116 can be omitted.

[0046] FIG. 2 is a block diagram of an example internal configuration of a computing device 200 of an electronic computing and communications system. In one configuration, the computing device 200 may implement one or more of the client 104, the application server 108, the database server 110, or the telephony server 112 of the system 100 shown in FIG. 1.

[0047] The computing device 200 includes components or units, such as a processor 202, a memory 204, a bus 206, a power source 208, peripherals 210, a user interface 212, a network interface 214, other suitable components, or a combination thereof. One or more of the memory 204, the power source 208, the peripherals 210, the user interface 212, or the network interface 214 can communicate with the processor 202 via the bus 206.

[0048] The processor 202 is a central processing unit, such as a microprocessor, and can include single or multiple processors having single or multiple processing cores. Alternatively, the processor 202 can include another type of device, or multiple devices, configured for manipulating or processing information. For example, the processor 202 can include multiple processors interconnected in one or more manners, including hardwired or networked. The operations of the processor 202 can be distributed across multiple devices or units that can be coupled directly or across a local area or other suitable type of network. The processor 202 can include a cache, or cache memory, for local storage of operating data or instructions.

[0049] The memory 204 includes one or more memory components, which may each be volatile memory or non-volatile memory. For example, the volatile memory can be random access memory (RAM) (e.g., a DRAM module, such as DDR SDRAM). In another example, the non-volatile memory of the memory 204 can be a disk drive, a solid state drive, flash memory, or phase-change memory. In some implementations, the memory 204 can be distributed across multiple devices. For example, the memory 204 can include network-based memory or memory in multiple clients or servers performing the operations of those multiple devices.

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[0050] The memory 204 can include data for immediate access by the processor 202. For example, the memory 204 can include executable instructions 216, application data 218, and an operating system 220. The executable instructions 216 can include one or more application programs, which can be loaded or copied, in whole or in part, from non-volatile memory to volatile memory to be executed by the processor 202. For example, the executable instructions 216 can include instructions for performing some or all of the techniques of this disclosure. The application data 218 can include user data, database data (e.g., database catalogs or dictionaries), or the like. In some implementations, the application data 218 can include functional programs, such as a web browser, a web server, a database server, another program, or a combination thereof. The operating system 220 can be, for example, Microsoft Windows®, Mac OS X®, or Linux®; an operating system for a mobile device, such as a smartphone or tablet device; or an operating system for a non-mobile device, such as a mainframe computer.

[0051] The power source 208 provides power to the computing device 200. For example, the power source 208 can be an interface to an external power distribution system. In another example, the power source 208 can be a battery, such as where the computing device 200 is a mobile device or is otherwise configured to operate independently of an external power distribution system. In some implementations, the computing device 200 may include or otherwise use multiple power sources. In some such implementations, the power source 208 can be a backup battery.

[0052] The peripherals 210 includes one or more sensors, detectors, or other devices configured for monitoring the computing device 200 or the environment around the computing device 200. For example, the peripherals 210 can include a geolocation component, such as a global positioning system location unit. In another example, the peripherals can include a temperature sensor for measuring temperatures of components of the computing device 200, such as the processor 202. In some implementations, the computing device 200 can omit the peripherals 210.

[0053] The user interface 212 includes one or more input interfaces and/or output interfaces. An input interface may, for example, be a positional input device, such as a mouse, touchpad, touchscreen, or the like; a keyboard; or another suitable human or machine interface device. An output interface may, for example, be a display, such as a liquid crystal display, a cathode-ray tube, a light emitting diode display, or other suitable display.

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[0054] The network interface 214 provides a connection or link to a network (e.g., the network 114 shown in FIG. 1). The network interface 214 can be a wired network interface or a wireless network interface. The computing device 200 can communicate with other devices via the network interface 214 using one or more network protocols, such as using Ethernet, transmission control protocol (TCP), internet protocol (IP), power line communication, an IEEE 802.X protocol (e.g., Wi-Fi, Bluetooth, or ZigBee), infrared, visible light, general packet radio service (GPRS), global system for mobile communications (GSM), code-division multiple access (CDMA), Z-Wave, another protocol, or a combination thereof.

[0055] FIG. 3 is a block diagram of an example of a software platform 300 implemented by an electronic computing and communications system, for example, the system 100 shown in FIG. 1. The software platform 300 is a UCaaS platform accessible by clients of a customer of a UCaaS platform provider, for example, the clients 104A through 104B of the customer 102A or the clients 104C through 104D of the customer 102B shown in FIG. 1. The software platform 300 may be a multi-tenant platform instantiated using one or more servers at one or more datacenters including, for example, the application server 108, the database server 110, and the telephony server 112 of the datacenter 106 shown in FIG. 1.

[0056] The software platform 300 includes software services accessible using one or more clients. For example, a customer 302 as shown includes four clients – a desk phone 304, a computer 306, a mobile device 308, and a shared device 310. The desk phone 304 is a desktop unit configured to at least send and receive calls and includes an input device for receiving a telephone number or extension to dial to and an output device for outputting audio and/or video for a call in progress. The computer 306 is a desktop, laptop, or tablet computer including an input device for receiving some form of user input and an output device for outputting information in an audio and/or visual format. The mobile device 308 is a smartphone, wearable device, or other mobile computing aspect including an input device for receiving some form of user input and an output device for outputting information in an audio and/or visual format. The desk phone 304, the computer 306, and the mobile device 308 may generally be considered personal devices configured for use by a single user. The shared device 310 is a desk phone, a computer, a mobile device, or a different device which may instead be configured for use by multiple specified or unspecified users. In some implementations, a client may be a vehicle or a component thereof. A vehicle may include an automobile, an aircraft, a watercraft, a spacecraft, a

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train, a monorail, or a hyperloop.

[0057] Each of the clients 304 through 310 includes or runs on a computing device configured to access at least a portion of the software platform 300. In some implementations, the customer 302 may include additional clients not shown. For example, the customer 302 may include multiple clients of one or more client types (e.g., multiple desk phones or multiple computers) and/or one or more clients of a client type not shown in FIG. 3 (e.g., wearable devices or televisions other than as shared devices). For example, the customer 302 may have tens or hundreds of desk phones, computers, mobile devices, and/or shared devices.

[0058] The software services of the software platform 300 generally relate to communications tools, but are in no way limited in scope. As shown, the software services of the software platform 300 include telephony software 312, conferencing software 314, messaging software 316, and other software 318. Some or all of the software 312 through 318 uses customer configurations 320 specific to the customer 302. The customer configurations 320 may, for example, be data stored within a database or other data store at a database server, such as the database server 110 shown in FIG. 1.

[0059] The telephony software 312 enables telephony traffic between ones of the clients 304 through 310 and other telephony-enabled devices, which may be other ones of the clients 304 through 310, other VOIP-enabled clients of the customer 302, non-VOIP-enabled devices of the customer 302, VOIP-enabled clients of another customer, non-VOIP-enabled devices of another customer, or other VOIP-enabled clients or non-VOIP-enabled devices. Calls sent or received using the telephony software 312 may, for example, be sent or received using the desk phone 304, a softphone running on the computer 306, a mobile application running on the mobile device 308, or using the shared device 310 that includes telephony features.

[0060] The telephony software 312 further enables phones that do not include a client application to connect to other software services of the software platform 300. For example, the telephony software 312 may receive and process calls from phones not associated with the customer 302 to route that telephony traffic to one or more of the conferencing software 314, the messaging software 316, or the other software 318.

[0061] The conferencing software 314 enables audio, video, and/or other forms of conferences between multiple participants, such as to facilitate a conference between those participants. In some cases, the participants may all be physically present within a single

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location, for example, a conference room, in which the conferencing software 314 may facilitate a conference between only those participants and using one or more clients within the conference room. In some cases, one or more participants may be physically present within a single location and one or more other participants may be remote, in which the conferencing software 314 may facilitate a conference between all of those participants using one or more clients within the conference room and one or more remote clients. In some cases, the participants may all be remote, in which the conferencing software 314 may facilitate a conference between the participants using different clients for the participants. The conferencing software 314 can include functionality for hosting, presenting scheduling, joining, or otherwise participating in a conference. The conferencing software 314 may further include functionality for recording some or all of a conference and/or documenting a transcript for the conference.

[0062] The messaging software 316 enables instant messaging, unified messaging, and other types of messaging communications between multiple devices, such as to facilitate a chat or other virtual conversation between users of those devices. The unified messaging functionality of the messaging software 316 may, for example, refer to email messaging which includes a voicemail transcription service delivered in email format.

[0063] The other software 318 enables other functionality of the software platform 300. Examples of the other software 318 include, but are not limited to, device management software, resource provisioning and deployment software, administrative software, third party integration software, and the like. In one particular example, the other software 318 can include functionality to provide a client device with access to conference features without the client device connecting to a conference.

[0064] The software 312 through 318 may be implemented using one or more servers, for example, of a datacenter such as the datacenter 106 shown in FIG 1. For example, one or more of the software 312 through 318 may be implemented using an application server, a database server, and/or a telephony server, such as the servers 108 through 112 shown in FIG. 1. In another example, one or more of the software 312 through 318 may be implemented using servers not shown in FIG. 1, for example, a meeting server, a web server, or another server. In yet another example, one or more of the software 312 through 318 may be implemented using one or more of the servers 108 through 112 and one or more other servers. The software 312 through 318 may be implemented by different servers or by the same server.

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[0065] Features of the software services of the software platform 300 may be integrated with one another to provide a unified experience for users. For example, the messaging software 316 may include a user interface element configured to initiate a call with another user of the customer 302. In another example, the telephony software 312 may include functionality for elevating a telephone call to a conference. In yet another example, the conferencing software 314 may include functionality for sending and receiving instant messages between participants and/or other users of the customer 302. In yet another example, the conferencing software 314 may include functionality for file sharing between participants and/or other users of the customer 302. In some implementations, some or all of the software 312 through 318 may be combined into a single software application run on clients of the customer, such as one or more of the clients 304 through 310.

[0066] FIG. 4 is a block diagram of an example of a system 400 for providing a client device access to conference features without a connection between the client and a conference. For example, the system 400 may be configured to allow a client device to preview conference participants prior to joining the conference, message one or more conference participants prior to joining the conference, view a conference item prior to joining the conference, or any combination thereof. The system 400 includes a client device 402, a server 404, client devices 406A through 406N, and a user system 408. The client device 402 and the client devices 406A through 406N may each be any one of the clients 304 to 310 shown in FIG. 3 or similar types of client devices, whether or not corresponding to a customer of a software platform. The server 404 may be used to implement at least a portion of a software platform which implements conferencing functionality, such as the software platform 300 shown in FIG. 3. In an example, the functionality to provide access to conference features prior to joining a conference may be implemented in the other software 318 shown in FIG. 3. The user system 408 may include or otherwise access a database server, such as the database server 110 shown in FIG. 1, that stores calendar records 407 of users of the system 400. In some examples, the user system 408 may be implemented as a component of the server 404.

[0067] The server 404 includes conferencing software 410. The conferencing software 410 may, for example, be the conferencing software 314 shown in FIG. 3. The conferencing software 410 is configured to enable audio, video, and/or other forms of conferences between multiple participants, such as users of the client devices 406A through 406N.

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[0068] In this example, the client device 402 has not yet joined the conference, and the client devices 406A through 406N have joined the conference. Any one of the users of the client devices 406A through 406N may have initiated the conference. When the conference is initiated, the conferencing software 410 generates a conference object and stores the conference object in a memory of the server 404. Each participant of the conference is associated with an attribute that indicates whether the participant accepted the conference invite, declined the conference invite, or has joined the conference. The conferencing software 410 is configured to detect changes in the conference, update the conference object, and store the updated conference object in the memory of the server 404. The detected changes may include, but are not limited to, a participant joining the conference, a participant leaving the conference, a participant speaking or presenting, a change in audio status of a client device, a change in video status of a client device, a change in a messaging application of the conference, a recording status change, or a change in an agenda or list of topics or other file associated with the conference.

[0069] The conferencing software 410 is configured to obtain calendar data from the user system 408. In some examples, the conferencing software 410 may transmit a request for calendar data to the user system 408 to obtain the calendar data. The calendar data may include a description of the conference, an agenda or list of topics for the conference, a conference start time, a conference end time, a location, two or more conference participants, two or more conference participant invite statuses, or any combination thereof. The conferencing software 410 is configured to generate a graphical output based on the calendar data and transmit the graphical output to a client device for display. The graphical output may be transmitted to client device 402, client devices 406A through 406N, or both.

[0070] In this example, the client device 402 receives the graphical output and displays the graphical output on a display of the client device 402. The graphical output is displayed as a panel on the display of the client device 402. The panel may be a persistent panel that is an extensible panel that sits on a display of the client device 402 to make the user aware of conference information or real-time communications in one or more modalities and to enable the user to take some action in response to the conference information or real-time communication in a single click regardless of the modality. The panel generally occupies less display space than a typical software application, and, in some cases, the size may be configurable based on user preferences and/or based on a number of applications integrated within the panel. The panel may

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be persistent such that it remains on top of the display of the client device 402 for immediate viewing at all times, unless otherwise configured. The single-click actions may correspond to response actions including to join the conference, leave the conference, message participants of the conference, turn video on/off, mute/unmute a microphone. In some examples, a single-click action to message participants of the conference may include prewritten messages. The panel may be configured, initialized, or otherwise used within a graphical output using the other software 318 shown in FIG. 3.

[0071] In this example, the panel is configured to display information associated with a conference that the client device 402 has not yet joined. The conference can be a conference to which the user was invited as a participant, or a conference that the user created as a host. A portion of the panel may include an indicator that indicates a conference status associated with the conference. The indicator can be a color or an icon. For example, the color may indicate that the conference is in the future, the user is late for the conference (e.g., the conference start time has passed, and no other participants have joined), or that the conference has started (e.g., other participants have joined).

[0072] The user of the client device 402 can provide an input to expand the panel to view more information regarding the conference. The input can include hovering a cursor over the portion of the panel, touching the portion of the panel, or pressing one or more keys/buttons, for example, a keyboard shortcut. In response to the input, the client device 402 is configured to transmit a request to the server 404 to obtain conference information. The conferencing software 410 is configured to obtain the conference object from the memory of the server 404 and determine the conference information based on the request. The conferencing software 410 is configured to generate a graphical output based on the determined conference information and transmit the graphical output to the client device 402 for display in the expanded portion of the panel.

[0073] In some implementations, the conference information is periodically obtained by the client device 402 without manual user intervention (i.e., without the need for user input) and displayed when the user expands the panel. In some implementations, the conference information is automatically pushed to the client device 402 without the need for a request and displayed when the user expands the panel.

[0074] In some implementations, the graphical output may be displayed within a graphical

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user interface of a client application running at the client device 402 or as a pop-up window. The display of the graphical user interface using the client application or pop-up window may be implemented to make the user aware of conference information or real-time communications in one or more modalities and to enable the user to take some action in response to the conference information or real-time communication in a single click regardless of the modality.

[0075] FIG. 5 is a swim lane diagram of an example of a system 500 for providing a client device access to conference participant information without a connection between the client and the conference. The system 500 includes a client device 502, a server 504, a client device 506, and a user system 508. The client device 502 may be the client device 402 shown in FIG. 4, and the client device 506 may be any one of the client devices 406A to 406N shown in FIG. 4. The server 504 may be the same as server 404 shown in FIG. 4, and may be used to implement the software platform 300 shown in FIG. 3. In an example, the functionality for providing access to conference participant information without having to join the conference may be implemented in the other software 318 shown in FIG. 3. The user system 508 may be a database server, such as database server 110 shown in FIG. 1. In some examples, the user system 508 may be implemented as a component of the server 504.

[0076] In this example, a user of the client device 502 may be in a current conference and running late for a next conference. The user would like to preview the participants of the next conference who are in attendance in order to determine when to leave the current conference to join the next conference. Attendance information for the participants of the next conference may be based on calendar data. As shown in FIG. 5, the server 504 is configured to obtain calendar data 510 from the user system 508. The server 504 is configured to generate a graphical output 512 based on the calendar data 510, and transmit the graphical output 512 to the client device 502.

[0077] The client device 502 is configured to receive the graphical output 512 and display 514 the graphical output 512, or portions thereof, within a panel on a display of the client device 502. The panel may be configured to display information associated with a conference, for example, a conference that the client device 502 has not yet joined. A portion of the panel may include an indicator that indicates a conference status associated with the conference. The indicator can be a color or an icon. For example, the color may indicate that the conference is a future conference, the conference has started without participants, the conference has started with

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participants, the conference has started and there is at least one high priority participant in attendance, the conference has an active screen share, or that the conference has ended.

[0078] At some point in time, the client device 506 transmits a join message 516 to the server 504 to connect to a conference 518. The conference 518 may be a conference in progress, or it may be a conference that is initiated by the join message 516. The server 504 is configured to receive the join message 516 and create or update 520 a conference object associated with the conference 518. The server 504 grants the client device 506 access to the conference 518, and the client device 506 joins the conference 518, for example, via conferencing software 410 shown in FIG. 4.

[0079] At this point, the client device 502 has not yet joined the conference 518. The server 504 is configured to determine 522 participant information. The participant information is determined based on the conference object, and may include a participant invite status for one or more participants, a participant attendance status for one or more participants, a participant attendance time for one or more participants, a participant preview status for one or more participants, a participant indicator for one or more participants, such as a participant name, or representation thereof, a participant audio status for one or more participants, a participant video status for one or more participants, a participant presentation status for one or more participants, or any combination thereof.

[0080] The participant invite status may indicate whether the participant accepted or declined the conference invite. The participant attendance status may indicate that the participant has joined the conference, has not joined the conference, or joined the conference and subsequently left the conference. The participant attendance time may indicate a time that the participant joined the conference or a duration of time that the participant has been in the conference. The participant preview status may indicate whether the participant is currently previewing the conference or has previewed the conference within a predetermined period of time. The participant audio status may indicate that the participant microphone is on, the participant microphone is muted, or that the participant is speaking. The participant video status may indicate that the participant video is on, the participant video is off, or that the participant is presenting in the conference. A representation of the participant may include an avatar, a photograph, an icon, text, or any combination thereof. The participant presentation status may be an indication of whether the participant is currently performing a screen share.

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[0081] The server 504 is configured to generate a graphical output 524 based on the participant information and transmit the graphical output 524 to the client device 502. The client device 502 is configured to receive the graphical output 524 and display 526 at least a portion thereof in an expanded portion of the panel. The graphical output 524 may include one or more visual indicators. For example, a visual indicator may indicate whether a participant has their video or audio on or off based on the participant video status or the participant audio status. A visual indicator may indicate who is speaking in the conference based on the participant audio status. A visual indicator may indicate a duration of time that the participant has been in the conference based on participant attendance time. A visual indicator may indicate that a participant is performing a screen share based on the participant presentation status. A visual indicator may indicate whether the conference is being recorded based on the conference status.

[0082] In some implementations, the client device 502 may transmit a request 528 for participant information to the server 504. The request 528 may be transmitted in response to an input from a user to expand the panel to view more information, such as participant information. In some implementations, the graphical output 524 is periodically transmitted to the client device 502 without the need for an input, and displayed when the user expands the panel. In some implementations, the graphical output 524 is automatically pushed to the client device 502 when there is an update to the conference object, without the need for the request 528, and displayed when the user expands the panel.

[0083] In some implementations, the server 504 may transmit a notification to the client device 502 to notify the user that a high priority participant has joined or left the conference 518. A high priority participant may be a supervisor of the user or other stakeholder. In this example, the server 504 may determine a priority level for a participant based on an organizational structure or a user preference. The server 504 may determine the priority level using a machine learning (ML) model and historical conference data of the user and one or more other users of the system 500. In some examples, a priority level for each participant may be determined.

[0084] In some implementations, the server 504 may transmit a notification to a client device that has not yet joined the conference 518, such as the client device 502, to notify the user that a threshold of participants for a quorum has been reached in the conference 518. The threshold may be based on a percentage, for example, the number of participants that have joined the conference 518 relative to the number of participants that accepted the conference invite. The

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threshold may be a configurable value. In an example, the notification may be transmitted when 50% of the participants that accepted the conference invite have joined the conference 518. In some examples, a notification may be transmitted when quorum is lost, for example, when a participant leaves the conference 518.

[0085] In some situations, it may be helpful to see who is previewing the conference or how many participants are previewing the conference, for example, to avoid a situation where no one is joining the conference because the conference is empty. In some implementations, the server 504 may transmit a notification to a client device that has not joined the conference 518, such as client device 502. The notification may be transmitted based on a determination that one or more participants are previewing the conference 518 or have previewed the conference 518 within a predetermined period of time. The notification may be a pop-up message on a client device display to join the conference 518 when one or more participants are previewing the conference 518 or have previewed the conference 518 within a predetermined period of time. The notification may be transmitted when a threshold of a number of previewing participants is met. The notification may be transmitted when a high priority participant is previewing the conference 518 or has joined the conference 518.

[0086] In some situations, a user may not have received an invite for a particular meeting, either inadvertently or because the host was not aware that the user should be invited. In such a case, and in some implementations, the server 504 may be configured to transmit a notification to a client device to join a conference to which the user was not invited. For example, the server 504 may determine that the user should be invited based on historical conference data of the user and one or more other users of the system 500 that were invited to the conference.

[0087] FIG. 6 is a swim lane diagram of an example of a system 600 for providing a client device access to a conference messaging application without a connection between the client device and the conference. The system 600 includes a client device 602, a server 604, and a client device 606. The client device 602 may be the client device 402 shown in FIG. 4, and the client device 606 may be any one of the client devices 406A to 406N shown in FIG. 4. The server 604 may be the same as server 404 shown in FIG. 4, and may be used to implement the software platform 300 shown in FIG. 3. In an example, the functionality for providing access to conference participant information without having to join the conference may be implemented in the other software 318 shown in FIG. 3.

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[0088] As shown in FIG. 6, client device 606 transmits a join message 608 to the server 604 to connect to a conference 610. The conference 610 may be a conference in progress, or it may be a conference that is initiated by the join message 608. The server 604 is configured to receive the join message 608 and create or update 612 a conference object associated with the conference 610. The server 604 grants the client device 606 access to the conference 610, and the client device 606 joins the conference 610, for example, via the conference software 410 shown in FIG. 4.

[0089] At this point, the client device 602 has not yet joined the conference 610. The server 604 may be configured to determine conference information based on the conference object. The conference information can include a conference description, a conference topic or list thereof, a conference start time, a conference end time, a conference location, participant information, or any combination thereof. The server 604 is configured to generate a graphical output 614 based on the conference information and transmit the graphical output 614 to the client device 602. The client device 602 is configured to receive the graphical output 614 and display 616 at least a portion thereof in an expanded portion of a panel associated with the conference 610 on a display of the client device 602. The graphical output 614 may include one or more visual indicators associated with the conference information.

[0090] The display 616 of the graphical output 614 may be triggered by an input to the client device 602 to expand the panel. The input can include hovering a cursor over the portion of the panel, touching the portion of the panel, or pressing one or more keys/buttons, for example, a keyboard shortcut. In this example, the expanded portion of the panel may display one or more participants that have joined the conference 610. The expanded portion of the panel may display an option to initiate a communication via an in-conference communication application with one or more participants that have joined the conference. The in-conference communication application is available for access by participants in the conference. The in-conference communication application may be a text or instant messaging application, an audio messaging application, or a video messaging application. In an example where the in-conference communication application is a text or instant messaging application, the option to initiate a communication may include one or more prewritten messages (e.g., "Coming from another meeting, I will be 5 minutes late," "Please get started without me," or "Please do not start without me"). The prewritten messages may be default messages generically available to various

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users of the conferencing software. Alternatively, the prewritten messages may be automatically generated using a ML model, user calendar data, historical conference data, and/or historical message data associated with the user of the client device 602. For example, if the user is in a conference with a group of participants that historically end conferences 10 minutes late, one or more prewritten messages may be automatically generated that include that the user will be 10 minutes late. In another example, if the user typically sends a message to start the meeting without their presence, a prewritten message such as "Please get started without me" may be automatically generated.

[0091] The user may provide another input that triggers the client device 602 to transmit a message 618 to the server 604. The input may be a single-click response to an option on the expanded portion of the panel. The message 618 may be a request to access an in-conference communication application to communicate with one or more conference participants. The server 604 is configured to receive the message 618 and grant access to the in-conference communication application 620 such that the client device 602 can communicate with one or more conference participants prior to joining the conference 610. In this example, when the access is granted, the client device 602 can communicate with client device 606 via the in-conference communication application 620 without joining the conference 610. In an example, if the user is a host of the conference 610, the user may notify one or more of the participants in the conference 610 that they are running late. If the user is not the host of the conference 610, the user may notify the host that they are running late.

[0092] In an example where a user may be in a vehicle and is unable to join a conference on time, the vehicle, or a component thereof, may be configured to transmit the message 618 to the server 604. In this example, the message 618 may be a prewritten message. The prewritten message may include an estimated time of arrival (ETA) based on navigation and/or traffic data to notify the one or more participants of the conference of an approximate time the user may join the conference. The ETA may include some buffer time to allow the user to park the vehicle and get set up for the conference.

[0093] In some implementations, the user may wish to post a message to a persistent chat room that is not associated with the conference 610, such as a chat room or other chat messaging space, which may, for example, be implemented using the messaging software 316 shown in FIG. 3. For example, a persistent chat room that has the same participants as the conference 610

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may exist, and the user may wish to post a message in the persistent chat room for future reference. In this example, the server 604 may check for existing persistent chat rooms to determine whether a persistent chat room with matching participants of the conference 610 exists. If a match is found, the user can be presented with an option to post a message to the matching persistent chat room. In this way, messages communicable from the client device of the user may be posted to a space outside of the conference so that those messages may remain available and easily accessible to relevant users even after the conference has ended.

[0094] In some implementations, an agenda or list of topics for the conference 610 may be updated based on a chat message. For example, a user may indicate in the chat message that they will be 15 minutes late to join the conference. Based on the chat message, the server 604 determines that the list of topics may need to be updated. The server 604 may make this determination by searching the list of topics for items associated with the user and automatically updating the list of topics by moving any matching items associated with the user to later in the conference 610. In some examples, the server may update the list of topics to move the matching items to the end of the conference 610.

[0095] FIG. 7 is a swim lane diagram of an example of a system 700 for providing a client device access to conference items without a connection between the client device and the conference. The system 700 includes a client device 702, a server 704, and a client device 706. The client device 702 may be the client device 402 shown in FIG. 4, and the client device 706 may be any one of the devices 406A to 406N shown in FIG. 4. The server 704 may be the same as server 404 shown in FIG. 4, and may be used to implement the software platform 300 shown in FIG. 3. In an example, the functionality for providing access to one or more conference items without having to join the conference may be implemented in the other software 318 shown in FIG. 3.

[0096] Certain conference items may be viewed prior to the initiation of the conference, for example, a list of topics or a downloadable file associated with the conference. The example shown in FIG. 7 is for a conference that is in progress. As shown in FIG. 7, client device 706 transmits a join message 708 to the server 704 to join a conference 710. The conference 710 may be a conference in progress, or it may be a conference that is initiated by the join message 708. The server 704 is configured to receive the join message 708 and create or update 712 a conference object associated with the conference 710. The server 704 grants the client device

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706 access to the conference 710, and the client device 706 joins the conference 710, for example, via the conference software 410 shown in FIG. 4.

[0097] At this point, the client device 702 has not yet joined the conference 710. The server 704 may be configured to determine one or more conference items based on the conference object. In an example, the one or more conference items may be attachments or links included in a conference invite or a description included in the conference invite. The one or more conference items may include an editable document, a list of topics, a real-time transcript, a downloadable file, or a real-time presentation such as a screen share. The server 704 is configured to generate a graphical output 714 based on the one or more conference items and transmit the graphical output 714 to the client device 702. The client device 702 is configured to receive the graphical output 714 and display 716 at least a portion thereof in an expanded portion of a panel associated with the conference 710 on a display of the client device 702. The graphical output 714 may include one or more visual indicators associated with the one or more conference items. The visual indicators may be graphical representations of the one or more conference items, such as icons, thumbnails, text representations, or any combination thereof.

[0098] The display 716 of the graphical output 714 may be triggered by an input to the client device 702 to expand the panel. The input can include hovering a cursor over the portion of the panel, touching the portion of the panel, or pressing one or more keys/buttons, for example, a keyboard shortcut. In this example, the expanded portion of the panel may display one or more visual indicators associated with the conference items. The expanded portion of the panel may display an option to view and/or edit one or more of the conference items.

[0099] The user may provide another input that triggers the client device 702 to transmit a request 718 to the server 704. The request 718 may be a request to view or edit a conference item. The input may be a single-click response to an option on the expanded portion of the panel. The server 704 is configured to receive the request 718 and determine 720 a conference item based on the request 718. Determining the conference item may include obtaining the conference object and extracting data associated with the conference item. If the request 718 is a request to view the conference item, the server 704 may generate a graphical output 722 based on the data associated with the conference item. The server 704 is configured to transmit the graphical output 722 to the client device 702 for display. The client device 702 is configured to receive the graphical output 722 and display 724 at least a portion thereof in an expanded portion of the

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panel.

[0100] If the request 718 is a request to edit the conference item, the server 704 may grant the client device 702 access to edit the conference item. The server may open an application interface to allow the client device 702 to view and edit the conference item. When the edits to the conference item are completed, the server 704 may update the conference object to reflect the edits. In some examples, a notification may be sent to the other participants of the conference that the conference item has been edited. In some examples, a notification may be sent to the author of the conference item that the conference item has been edited.

[0101] In an example, the list of topics for the conference may be a living document that can be edited by conference participants. If the user is running late and cannot join the conference on time, the user can edit the list of topics to move one or more topics associated with the user to a later portion of the conference without having to join the conference.

[0102] Typical conferences begin with some idle conversations that are not related to the substance of the conference. In some implementations, the server 704 may detect when the idle conversation has ended and the substantive portion of the conference 710 has begun. For example, detection of the substantive portion of the conference 710 may be based on the initiation of a screen share or by using automated speech recognition and a ML model to detect whether the discussion of the list of topics has begun. The server 704 may transmit a notification to the client device 702 to notify the user that the substantive portion of the conference 710 has begun. In some examples, the notification may be a pop-up window on the display of the client device 702. The notification may include an option to join the conference 710.

[0103] In an example, a user may be running late for a conference and is in an area with substantial background noise. The user may wish to access an audio portion of the conference to listen in without having to join the conference. In this example, the user does not have to worry about muting their microphone. The server 704 may transmit a visual indicator to the conference attendees to notify them that the user is listening in.

[0104] In another example, a user may be running late for a webinar and wants to get caught up before joining the webinar. The user may access the conference items associated with the webinar without having to join the webinar. For example, the user may view the real-time transcript and/or a real-time presentation of the webinar without having to join the webinar. In some examples, the conferencing software may include a notes application that allows

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participants to take notes during the conference. The conferencing software may provide the participants with an option to make their notes public so that other conference participants can view their notes. The conferencing software may annotate the participant notes with timestamps for future reference.

[0105] In some implementations, the server 704 may automatically edit the list of topics based on a presence detection of a user. For example, the server 704 may detect that a user is running late based on a chat message from the user or determining that the user has not yet joined the conference. The server 704 may identify one or more items associated with the user and automatically move the identified items to the end of the list of topics. In some examples, the server 704 may identify one or more items associated with the user and change the font of the items to indicate that the discussion of the identified items may be delayed because the associated user has not yet joined the conference. In some examples, the server 704 may identify one or more items based on whether they are yet to be discussed or have already been discussed. When the associated user joins the conference, the server 704 may automatically change the font back to the original font. Changing the font may include a change to a different font type, underlining text, bolding text, italicizing text, highlighting text, changing a text color, changing a text size, or any combination thereof.

[0106] In some implementations, the server 704 may determine a conference importance level using a ML model. The conference importance level may be based on the list of topics, conference attendees, participant interactions in previous similar conferences, or any combination thereof. The server 704 may be configured to transmit a notification to a client device that includes a suggestion to join the conference or skip the conference based on the importance level of the conference to the user. For example, if the user is double-booked for multiple conferences scheduled at the same time, the notification of the importance level of each conference may help the user determine which conference to join.

[0107] To further describe some implementations in greater detail, reference is next made to examples of methods that may be performed by or using a system for providing a client device access to conference features without a connection between the client device and a conference. FIGS. 8 through 10 are flowcharts of examples of methods for providing access to conference features prior to joining a conference. The methods can be executed using computing devices, such as the systems, hardware, and software described with respect to FIGS. 1 through 7. The

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methods can be performed, for example, by executing a machine-readable program or other computer-executable instructions, such as routines, instructions, programs, or other code. The steps, or operations, of the methods or other techniques, methods, processes, or algorithms described in connection with the implementations disclosed herein can be implemented directly in hardware, firmware, software executed by hardware, circuitry, or a combination thereof.

[0108] For simplicity of explanation, the methods are depicted and described herein as a series of steps or operations. However, the steps or operations in accordance with this disclosure can occur in various orders and/or concurrently. Additionally, other steps or operations not presented and described herein may be used. Furthermore, not all illustrated steps or operations may be required to implement a technique in accordance with the disclosed subject matter.

[0109] FIG. 8 is a flowchart of an example of a method 800 for providing a client device access to conference participant information without a connection between the client device and the conference. At 802, calendar data is obtained by a server. The calendar data may include at least one of a description of a conference, a list of topics associated with the conference, a start time for the conference, an end time for the conference, a location, a participant identifier, a participant invite status, or any combination thereof.

[0110] At 804, the server transmits a first graphical output to a client device. The client device has not yet connected to the conference. The graphical output is based on the calendar data. The client device receives the first graphical output and displays at least a portion of the graphical output on a panel associated with the conference. The first graphical output may include a visual indicator that indicates a conference status. The conference status may indicate that the conference is a future conference, the conference has started without participants, the conference has started with participants, the conference that started and a high priority participant is in attendance, or the conference has ended. The panel may be a persistent panel that is an extensible panel that sits on a display of the client device to make the user aware of conference information or real-time communications in one or more modalities and to enable the user to take some action in response to the conference information or real-time communication in a single click regardless of the modality. The panel may be expanded to view additional information associated with the conference.

[0111] At 806, the server receives a request for participant information. The request is received prior to the client device joining the conference. The request may be received in

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response to an input from a user to expand the panel to view more information, such as participant information.

[0112] At 808, the server determines the participant information based on the request. The participant information may be determined based on the conference object, and may include a participant invite status for one or more participants, a participant attendance status for one or more participants, a participant attendance time for one or more participants, a participant preview status for one or more participants, a participant indicator for one or more participants, such as a participant name or title, or representation thereof, a participant audio status for one or more participants, a participant video status for one or more participants, a participant presentation status for one or more participants, or any combination thereof. Prior to the client device connecting to the conference, the server is configured to generate a second graphical output that includes the participant information.

[0113] At 810, the server transmits the second graphical output to the client device for display. Prior to connecting to the conference, the client device receives the second graphical output and displays at least a portion thereof in an expanded portion of the panel. The second graphical output may include one or more visual indicators. For example, a visual indicator may indicate whether a participant has their video or audio on or off based on the participant video status or the participant audio status. A visual indicator may indicate who is speaking in the conference based on the participant audio status. A visual indicator may indicate a duration of time that the participant has been in the conference based on participant attendance time. A visual indicator may indicate that a participant is performing a screen share based on the participant presentation status. A visual indicator may indicate whether the conference is being recorded based on the conference status.

[0114] In some implementations, the method 800 may include determining whether a high priority participant (e.g., a stakeholder) has joined the conference. The high priority participant may be determined based on an organizational chart relative to an organizational position of the user of the client device. In some examples, the high priority participant may be based on a preference of the user of the client device. The method may include transmitting a notification to the client device to notify the user that a high priority participant has joined or left the conference.

[0115] In some implementations, the method 800 may include determining that a threshold

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number of participants for a quorum is met and transmitting a notification to a client device that has not yet joined the conference to notify the user that the quorum threshold is met. The method 800 may include transmitting a notification to the client device when the quorum is lost, for example, when a participant leaves the conference.

[0116] In some implementations, the method 800 includes determining who is previewing the conference or how many participants are previewing the conference. The server may transmit a notification to a client device that has not yet joined the conference to notify the user that one or more participants are previewing the conference or have previewed the conference within a predetermined period of time.

[0117] FIG. 9 is a flowchart of an example of a method 900 for providing a client device access to a conference messaging application without a connection between the client device and the conference. At 902, a server obtains conference information. The conference information may be associated with a conference in progress and can include a conference description, a conference topic or list thereof, a conference start time, a conference end time, a conference location, participant information, or any combination thereof. The server obtains the conference information and generates a graphical output based on the conference information.

[0118] At 904, the server transmits the graphical output based on the conference information to a client device for display. The client device receives the graphical output and displays at least a portion thereof in an expanded portion of a panel associated with the conference on a display of the client device. The graphical output may include one or more visual indicators associated with the conference information. The display of the graphical output may be triggered by an input to the client device to expand the panel. The expanded portion of the panel may display an option to initiate a communication with one or more participants in attendance via an in-conference communication application, such as a conference messaging application.

[0119] At 906, the server receives a message to initiate a communication with a participant that is in attendance at the conference. The message is received prior to the client device joining the conference. The message may be transmitted to the server in response to an input received at the client device. The input may be a single-click response to an option on the expanded portion of the panel. The message may be a request to access an in-conference communication application to communicate with one or more conference participants.

[0120] At 908, the server grants the client device access to an in-conference communication

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application. The access to the in-conference communication application is granted prior to the client device joining the conference. When the access is granted, the client device can communicate with one or more of the participants in the conference via the in-conference communication application without joining the conference.

[0121] In some implementations, the message may include a prewritten message. In an example where the client device is a vehicle, or a component thereof, the prewritten message may include an ETA based on navigation and/or traffic data to notify one or more participants of the conference of an approximate time the user may join the conference. In some examples, the ETA may include some buffer time to allow the user to park the vehicle and get set up for the conference.

[0122] In some implementations, the method 900 may include posting a message to a persistent chat room that is not associated with the conference. For example, the method 900 may include checking for existing persistent chat rooms to determine whether a persistent chat room with matching participants of the conference exists. If a match is found, the method 900 may include transmitting a notification that includes an option to post a message to the matching persistent chat room to the client device.

[0123] In some implementations, the method 900 may include updating a list of topics based on a chat message. The method 900 may include determining that the list of topics should be updated based on the text of a chat message. For example, it may be determined from the text of the chat message that the user is running late for the conference. The method 900 may include searching the list of topics for items associated with the user and automatically updating the list of topics by moving any matching items associated with the user to later in the conference. In some examples, the method 900 may include transmitting a notification to the conference attendees that the list of topics has been updated.

[0124] FIG. 10 is a flowchart of an example of a method 1000 for providing a client device access to conference items without a connection between the client device and the conference. At 1002, a server obtains a conference item. The conference item may be an attachment or a link included in a conference invite or a description included in the conference invite. The conference item may include an editable document, a list of topics, a real-time transcript, a downloadable file, or a real-time presentation such as a screen share. The server obtains the conference item and generates a first graphical output based on the conference item.

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[0125] At 1004, the server transmits the first graphical output to a client device to display an indicator of the conference item. The client device receives the first graphical output and displays at least a portion thereof in an expanded portion of a panel associated with the conference on a display of the client device. The first graphical output includes an indicator associated with the conference item. The indicator may be a visual indicator and may be a graphical representation of the conference item, such as an icon, a thumbnail, a text representation, or any combination thereof. The display of the first graphical output may be triggered by an input to the client device to expand the panel. The expanded portion of the panel may display an option to view and/or edit the conference item.

[0126] At 1006, the server receives a request to view the conference item. The request may be triggered by another input at the client device. The input may be a single-click response to an option on the expanded portion of the panel. The request may be a request to view or edit a conference item. The server generates a second graphical output based on the conference item indicated in the request.

[0127] At 1008, the server transmits the second graphical output to the client device to display the conference item. The client device receives the second graphical output and displays at least a portion thereof in an expanded portion of the panel or in an application that is compatible with the conference item.

[0128] In some implementations, the method 1000 may include detecting an initiation of a screen share. The method 1000 may include determining that a substantive portion of the conference has started based on the screen share. The substantive portion of the conference can be associated with an item of the list of topics. The method 1000 may include transmitting a notification to the client device that indicates that the substantive portion of the conference has started.

[0129] In some implementations, the method 1000 may include detecting a voice in an audio portion of the conference. The method 1000 may include converting the detected voice to text and comparing the text to the conference item. In this example, the conference item may be a list of topics. The method 1000 may include determining that a substantive portion of the conference has started based on the comparison, where the substantive portion of the conference is associated with an item of the list of topics. The method 1000 may include transmitting a notification to the client device that indicates that the substantive portion of the conference has

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started.

[0130] The implementations of this disclosure can be described in terms of functional block components and various processing operations. Such functional block components can be realized by a number of hardware or software components that perform the specified functions. For example, the disclosed implementations can employ various integrated circuit components (e.g., memory elements, processing elements, logic elements, look-up tables, and the like), which can carry out a variety of functions under the control of one or more microprocessors or other control devices. Similarly, where the elements of the disclosed implementations are implemented using software programming or software elements, the systems and techniques can be implemented with a programming or scripting language, such as C, C++, Java, JavaScript, assembler, or the like, with the various algorithms being implemented with a combination of data structures, objects, processes, routines, or other programming elements.

[0131] Functional aspects can be implemented in algorithms that execute on one or more processors. Furthermore, the implementations of the systems and techniques disclosed herein could employ a number of conventional techniques for electronics configuration, signal processing or control, data processing, and the like. The words "mechanism" and "component" are used broadly and are not limited to mechanical or physical implementations, but can include software routines in conjunction with processors, etc. Likewise, the terms "system" or "tool" as used herein and in the figures, but in any event based on their context, may be understood as corresponding to a functional unit implemented using software, hardware (e.g., an integrated circuit, such as an ASIC), or a combination of software and hardware. In certain contexts, such systems or mechanisms may be understood to be a processor-implemented software system or processor-implemented software mechanism that is part of or callable by an executable program, which may itself be wholly or partly composed of such linked systems or mechanisms.

[0132] Implementations or portions of implementations of the above disclosure can take the form of a computer program product accessible from, for example, a computer-usable or computer-readable medium. A computer-usable or computer-readable medium can be a device that can, for example, tangibly contain, store, communicate, or transport a program or data structure for use by or in connection with a processor. The medium can be, for example, an electronic, magnetic, optical, electromagnetic, or semiconductor device.

[0133] Other suitable mediums are also available. Such computer-usable or computer-

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readable media can be referred to as non-transitory memory or media, and can include volatile memory or non-volatile memory that can change over time. The quality of memory or media being non-transitory refers to such memory or media storing data for some period of time or otherwise based on device power or a device power cycle. A memory of an apparatus described herein, unless otherwise specified, does not have to be physically contained by the apparatus, but is one that can be accessed remotely by the apparatus, and does not have to be contiguous with other memory that might be physically contained by the apparatus.

[0134] While the disclosure has been described in connection with certain implementations, it is to be understood that the disclosure is not to be limited to the disclosed implementations but, on the contrary, is intended to cover various modifications and equivalent arrangements included within the scope of the appended claims, which scope is to be accorded the broadest interpretation so as to encompass all such modifications and equivalent structures as is permitted under the law.

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What is claimed is:

1. A method for conference previewing, comprising:

obtaining a conference item associated with a conference;

transmitting, to a client device, a first graphical output for display on a panel interface associated with the conference, the panel interface having a first portion and a second portion, the first portion including an indicator of the conference item;

prior to the client device joining the conference:

receiving a request from the client device to view the conference item; and

transmitting a second graphical output to the client device based on the request to display the conference item on the second portion of the panel interface.

2. The method of claim 1, wherein the conference item is an editable document.

3. The method of claim 2, comprising:

transmitting a notification to participant client devices, wherein the notification indicates that the editable document has been modified.

4. The method of claim 1, wherein the conference item is at least one of an agenda, a real-time transcript, a downloadable file, or a real-time presentation.

5. The method of claim 1, comprising:

detecting an initiation of a screen share in the conference;

determining that a substantive portion of the conference has started based on the screen share, the substantive portion of the conference associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference has started.

6. The method of claim 1, comprising:

detecting a voice in an audio portion of the conference;

converting the voice to text;

comparing the text to the conference item, wherein the conference item is an agenda;

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determining that a substantive portion of the conference has started based on the comparison, the substantive portion of the conference associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference has started.

7. The method of claim 1, wherein the display of the client device includes a panel interface associated with the conference, wherein the panel interface includes a first portion and a second portion.

8. The method of claim 7, wherein the first graphical output is displayed on the first portion of the panel interface and the second graphical output is displayed on the second portion of the panel interface.

9. A system for conference previewing, comprising:

a server configured to:

obtain a conference item associated with a conference; and

transmit a first graphical output based on the conference item; and

a client device configured to display the first graphical output on a panel interface associated with the conference, the panel interface having a first portion and a second portion, the first portion including an indicator of the conference item;

prior to the client device joining the conference, the server configured to:

receive a request from the client device to view the conference item; and

transmit a second graphical output to the client device based on the request; and

prior to the client device joining the conference, the client device configured to:

display the conference item on the second portion of the panel interface.

10. The system of claim 9, wherein the server is configured to:

detect a voice in an audio portion of the conference;

convert the voice to text;

compare the text to the conference item, wherein the conference item is an agenda;

determine that a substantive portion of the conference has started based on the

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comparison, the substantive portion of the conference associated with an agenda item; and

transmit a notification to the client device that indicates that the substantive portion of the conference has started.

11. The system of claim 10, wherein the server is configured to:

detect an initiation of a screen share in the conference;

determine that a substantive portion of the conference has started based on the screen share, the substantive portion of the conference associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference has started.

12. The system of claim 9, wherein the indicator is a visual indicator that is a graphical representation of the conference item.

13. The system of claim 12, wherein the visual indicator is at least one of an icon, a thumbnail, or a text representation of the conference item.

14. The system of claim 9, wherein the conference item is an editable document, the server configured to:

transmit a notification to participant client devices, wherein the notification indicates that the editable document has been modified.

15. The system of claim 9, wherein the conference item is at least one of an agenda, a real-time transcript, a downloadable file, or a real-time presentation.

16. A non-transitory computer-readable storage device including program instructions that, when executed by a processor, cause the processor to perform operations, the operations comprising:

obtaining a conference item associated with a conference;

transmitting a first graphical output for display on a panel interface associated with the conference, the panel interface having a first portion and a second portion, the first portion

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including an indicator of the conference item;

prior to the client device joining the conference:

receiving a request from the client device to view the conference item; and

transmitting a second graphical output to the client device to display the conference item on the second portion of the panel interface.

17. The non-transitory computer-readable storage device of claim 16, wherein the program instructions, when executed by the processor, cause the processor to perform operations, the operations comprising:

detecting an initiation of a screen share in the conference;

determining that a substantive portion of the conference has started based on the screen share, the substantive portion of the conference associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference has started.

18. The non-transitory computer-readable storage device of claim 16, wherein the program instructions, when executed by the processor, cause the processor to perform operations, the operations comprising:

detecting a voice in an audio portion of the conference;

converting the voice to text;

comparing the text to the conference item, wherein the conference item is an agenda;

determining that a substantive portion of the conference has started based on the comparison, the substantive portion of the conference associated with an agenda item; and

transmitting a notification to the client device that indicates that the substantive portion of the conference has started.

19. The non-transitory computer-readable storage device of claim 16, wherein the indicator is a visual indicator that is a graphical representation of the conference item.

20. The non-transitory computer-readable storage device of claim 19, wherein the visual indicator is at least one of an icon, a thumbnail, or a text representation of the conference

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item.

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ABSTRACT

A conference system transmits a first graphical output to display an indicator of a conference item on a display of a client device. Prior to the client device joining the conference, the conference system receives a request to view the conference item. The conference system transmits a second graphical output to the client device to display the conference item.

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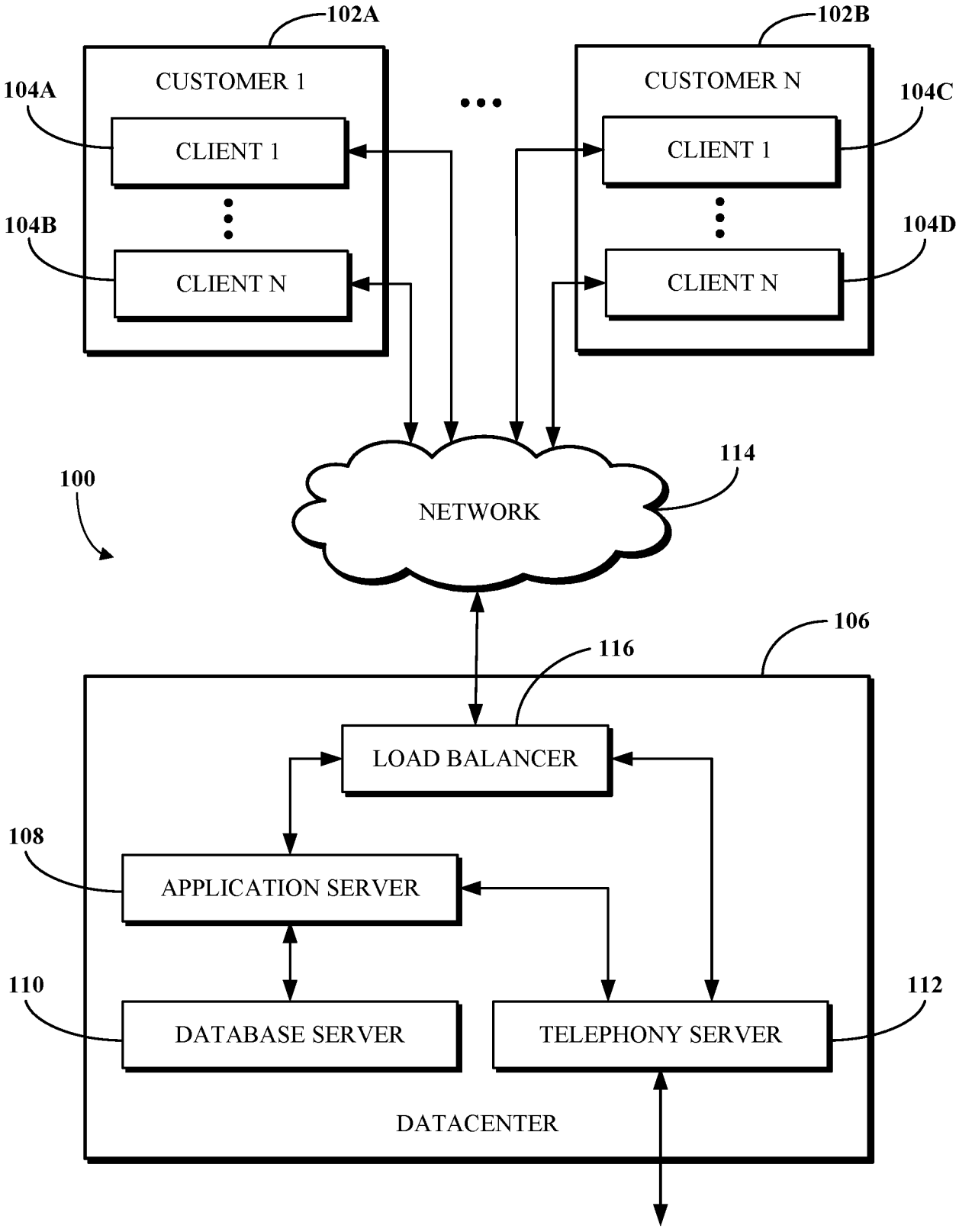

102A
CUSTOMER 1
104A
CLIENT 1
104B
CLIENT N
102B
CUSTOMER N
104C
CLIENT 1
104D
CLIENT N
100
NETWORK
114
106
116
LOAD BALANCER
108
APPLICATION SERVER
110
DATABASE SERVER
TELEPHONY SERVER
112
DATACENTER

FIG. 1

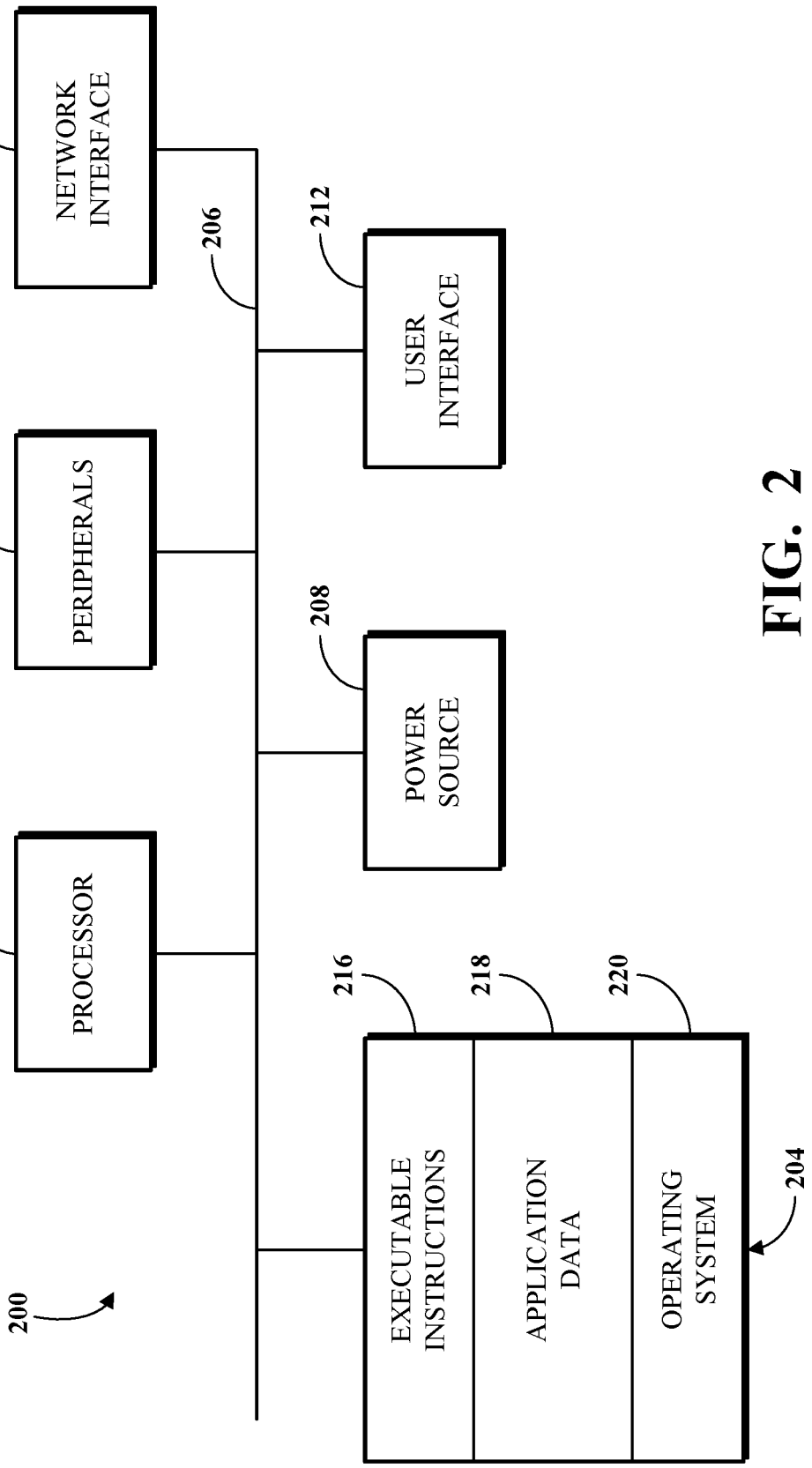

200
PROCESSOR
202
PERIPHERALS
210
NETWORK INTERFACE
214
206
USER INTERFACE
212
POWER SOURCE
208
EXECUTABLE INSTRUCTIONS
216
APPLICATION DATA
218
OPERATING SYSTEM
220
204

FIG. 2

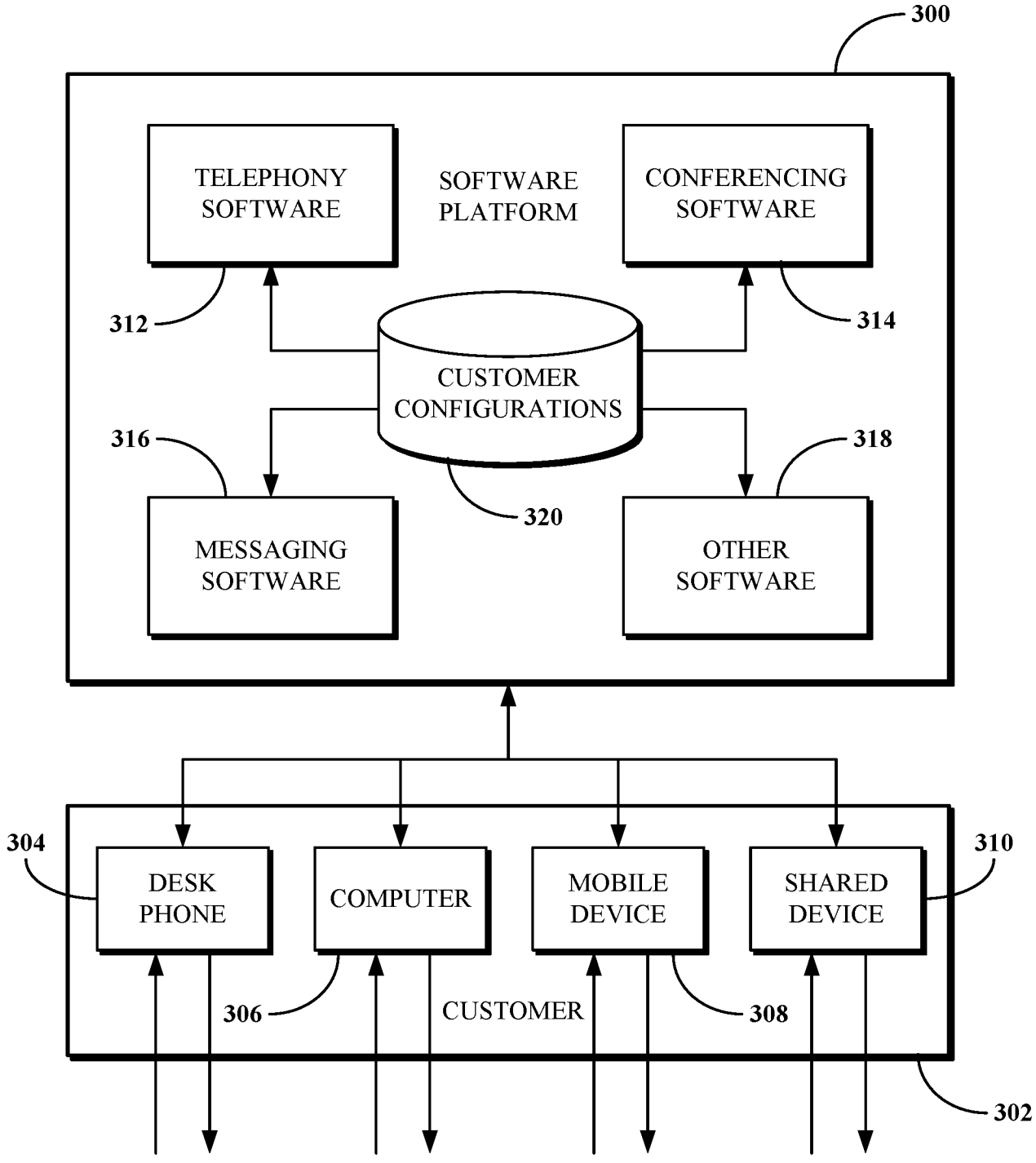

300
TELEPHONY SOFTWARE
SOFTWARE PLATFORM
CONFERENCING SOFTWARE
312
314
CUSTOMER CONFIGURATIONS
316
318
320
MESSAGING SOFTWARE
OTHER SOFTWARE
304
DESK PHONE
COMPUTER
MOBILE DEVICE
SHARED DEVICE
310
306
CUSTOMER
308
302

FIG. 3

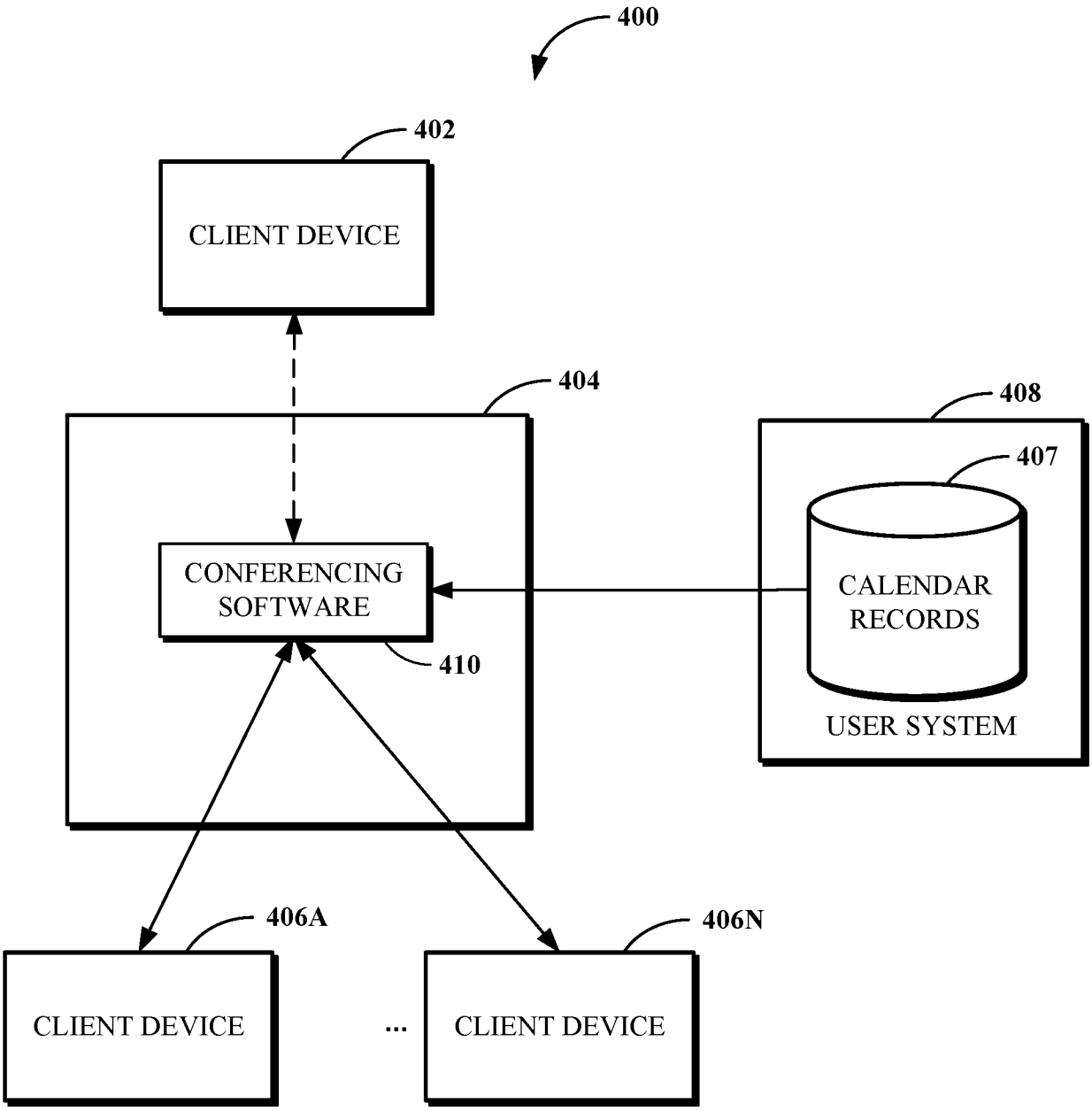

400
402
CLIENT DEVICE
404
408
407
CONFERENCING SOFTWARE
410
CALENDAR RECORDS
USER SYSTEM
406A
406N
CLIENT DEVICE
...
CLIENT DEVICE

FIG. 4

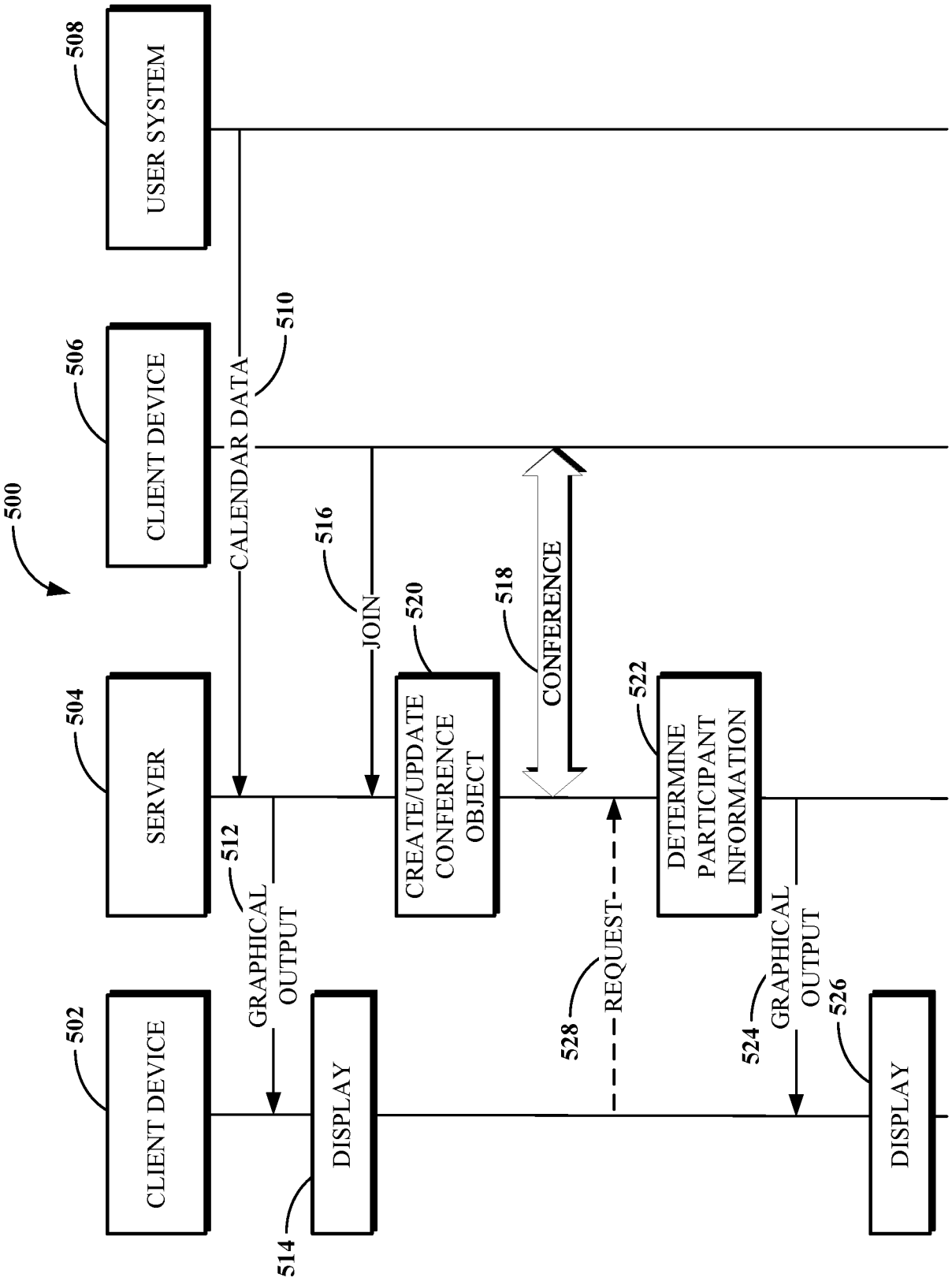

500
USER SYSTEM
508
CLIENT DEVICE
506
SERVER
504
CLIENT DEVICE
502
DISPLAY
514
DISPLAY
526
CALENDAR DATA
510
JOIN
516
CONFERENCE
518
CREATE/UPDATE CONFERENCE OBJECT
520
DETERMINE PARTICIPANT INFORMATION
522
GRAPHICAL OUTPUT
512
REQUEST
528
GRAPHICAL OUTPUT
524

FIG. 5

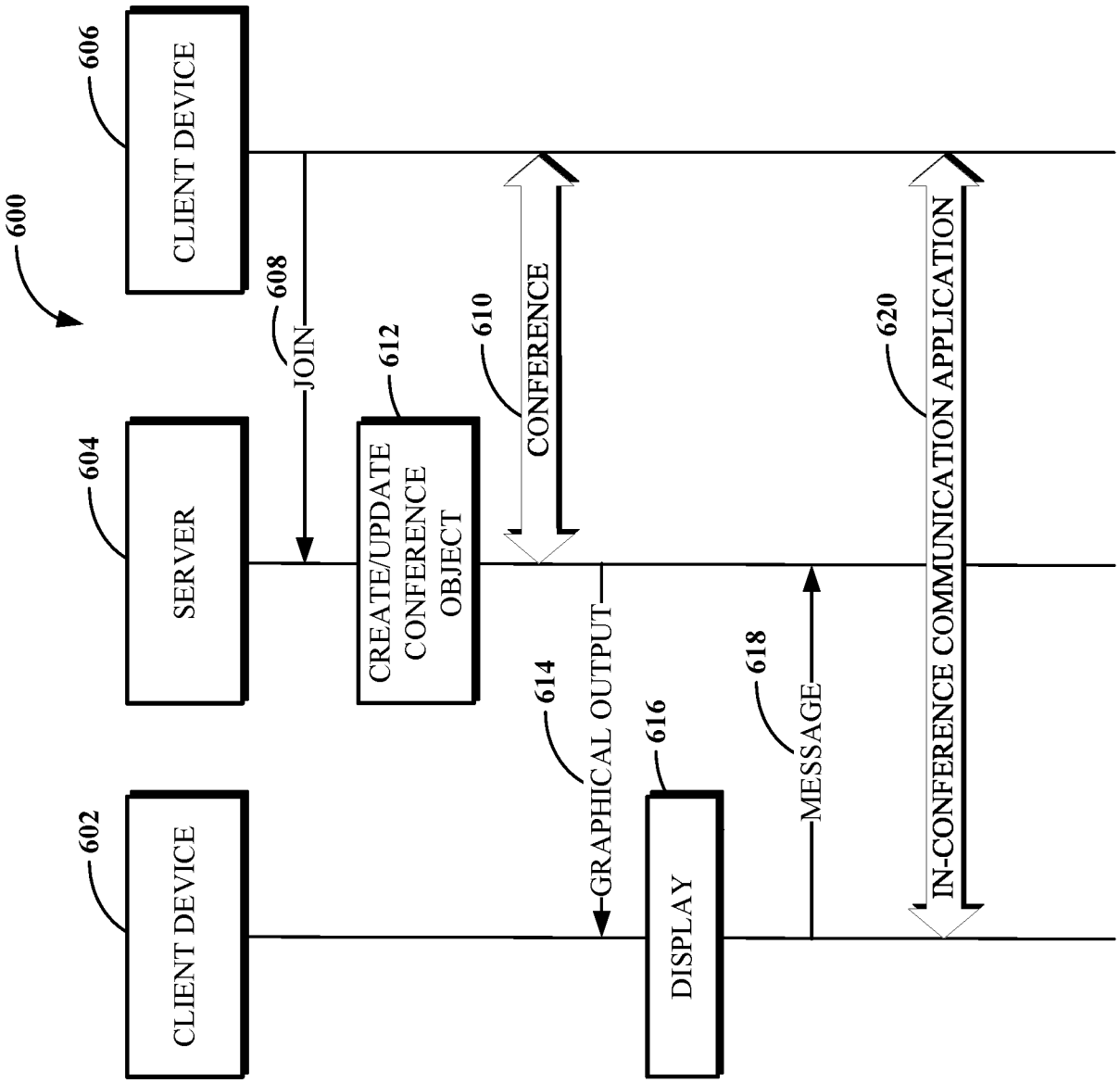

600
606
CLIENT DEVICE
608
JOIN
610
CONFERENCE
620
IN-CONFERENCE COMMUNICATION APPLICATION
604
SERVER
612
CREATE/UPDATE CONFERENCE OBJECT
614
GRAPHICAL OUTPUT
616
DISPLAY
618
MESSAGE
602
CLIENT DEVICE

FIG. 6

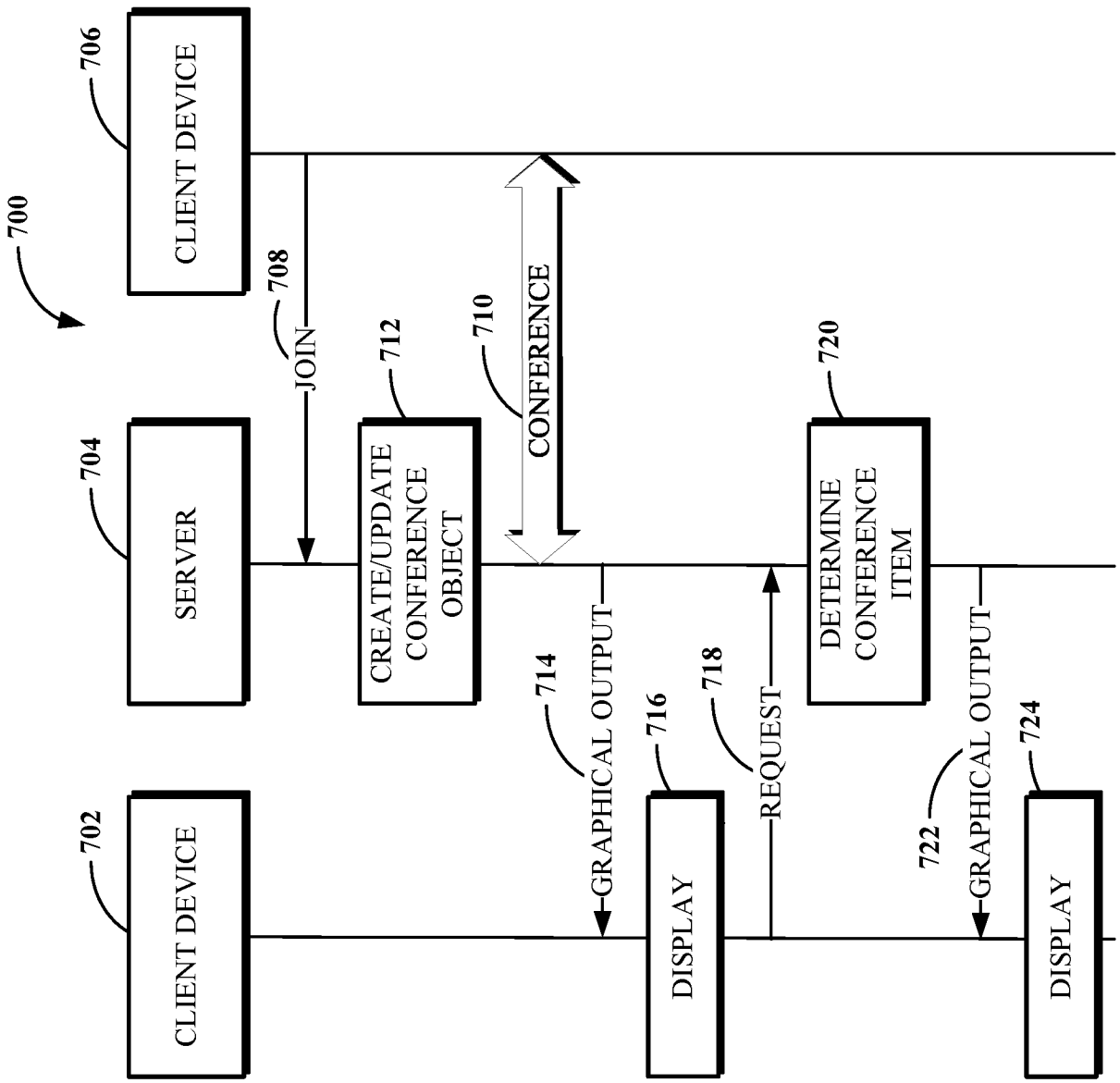

700
CLIENT DEVICE
706
SERVER
704
CLIENT DEVICE
702
JOIN
708
CONFERENCE
710
CREATE/UPDATE CONFERENCE OBJECT
712
DETERMINE CONFERENCE ITEM
720
GRAPHICAL OUTPUT
714
DISPLAY
716
REQUEST
718
GRAPHICAL OUTPUT
722
DISPLAY
724

FIG. 7

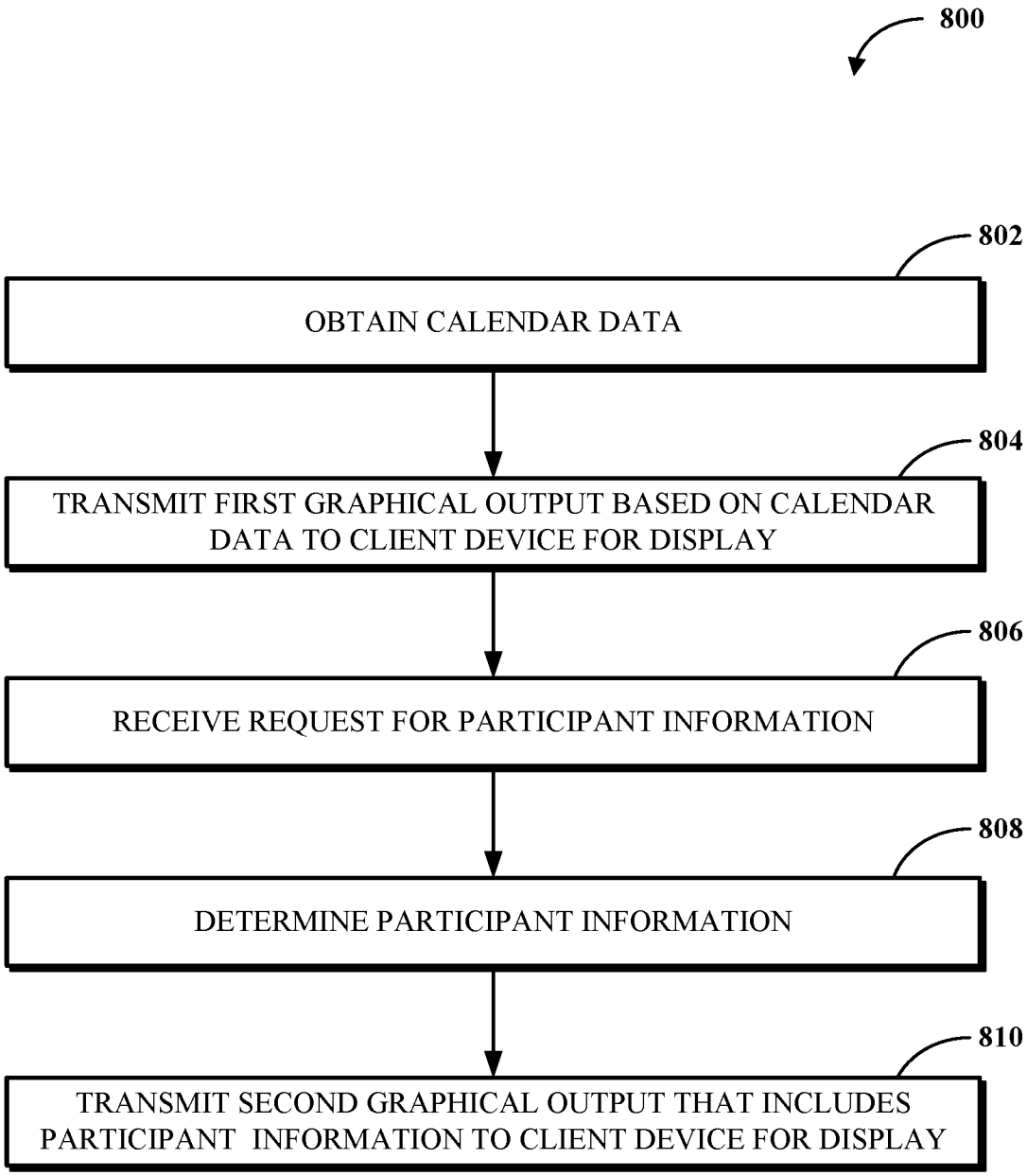

800
802
OBTAIN CALENDAR DATA
804
TRANSMIT FIRST GRAPHICAL OUTPUT BASED ON CALENDAR DATA TO CLIENT DEVICE FOR DISPLAY
806
RECEIVE REQUEST FOR PARTICIPANT INFORMATION
808
DETERMINE PARTICIPANT INFORMATION
810
TRANSMIT SECOND GRAPHICAL OUTPUT THAT INCLUDES PARTICIPANT INFORMATION TO CLIENT DEVICE FOR DISPLAY

FIG. 8

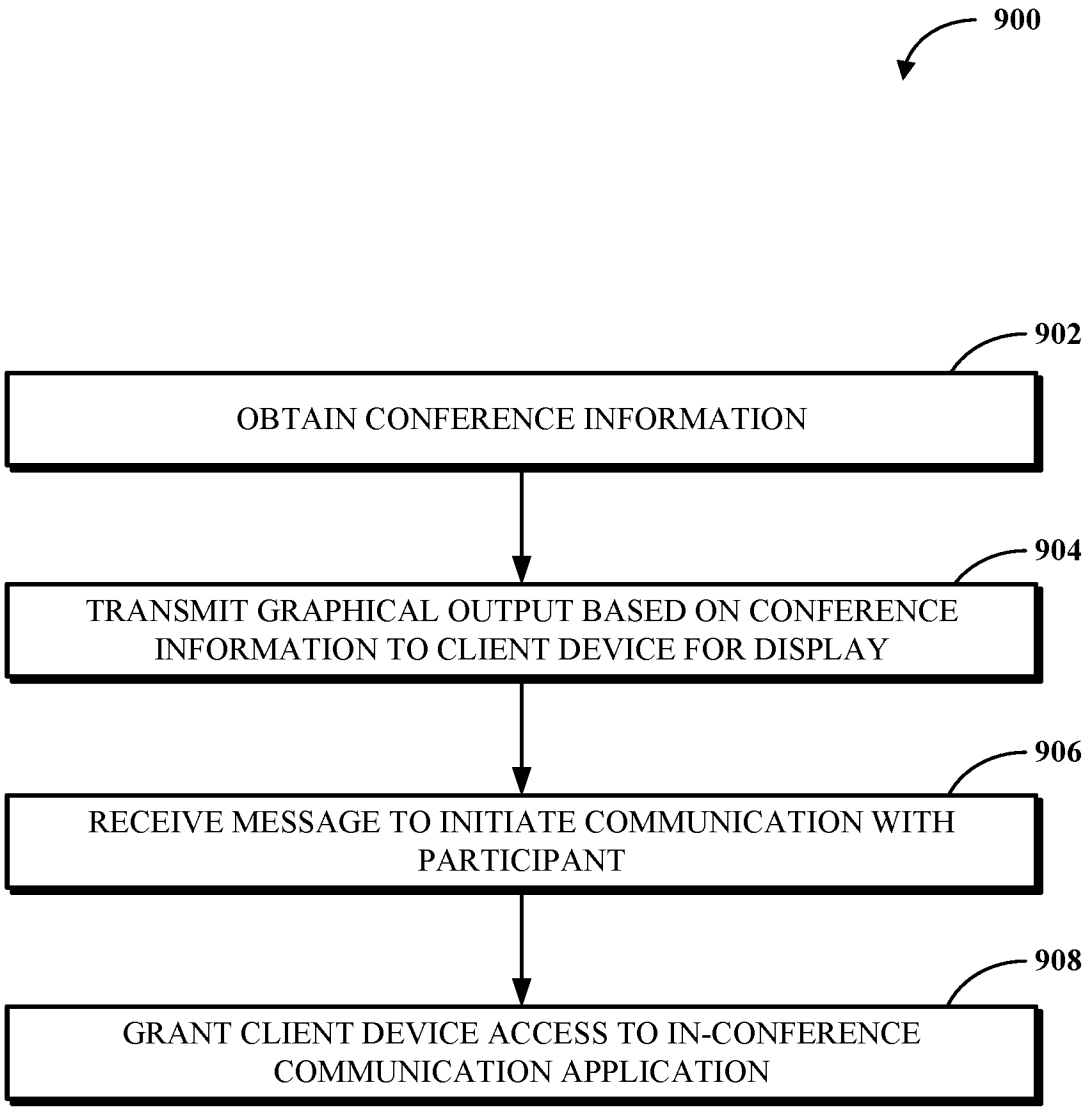

900
902
OBTAIN CONFERENCE INFORMATION
904
TRANSMIT GRAPHICAL OUTPUT BASED ON CONFERENCE INFORMATION TO CLIENT DEVICE FOR DISPLAY
906
RECEIVE MESSAGE TO INITIATE COMMUNICATION WITH PARTICIPANT
908
GRANT CLIENT DEVICE ACCESS TO IN-CONFERENCE COMMUNICATION APPLICATION

FIG. 9

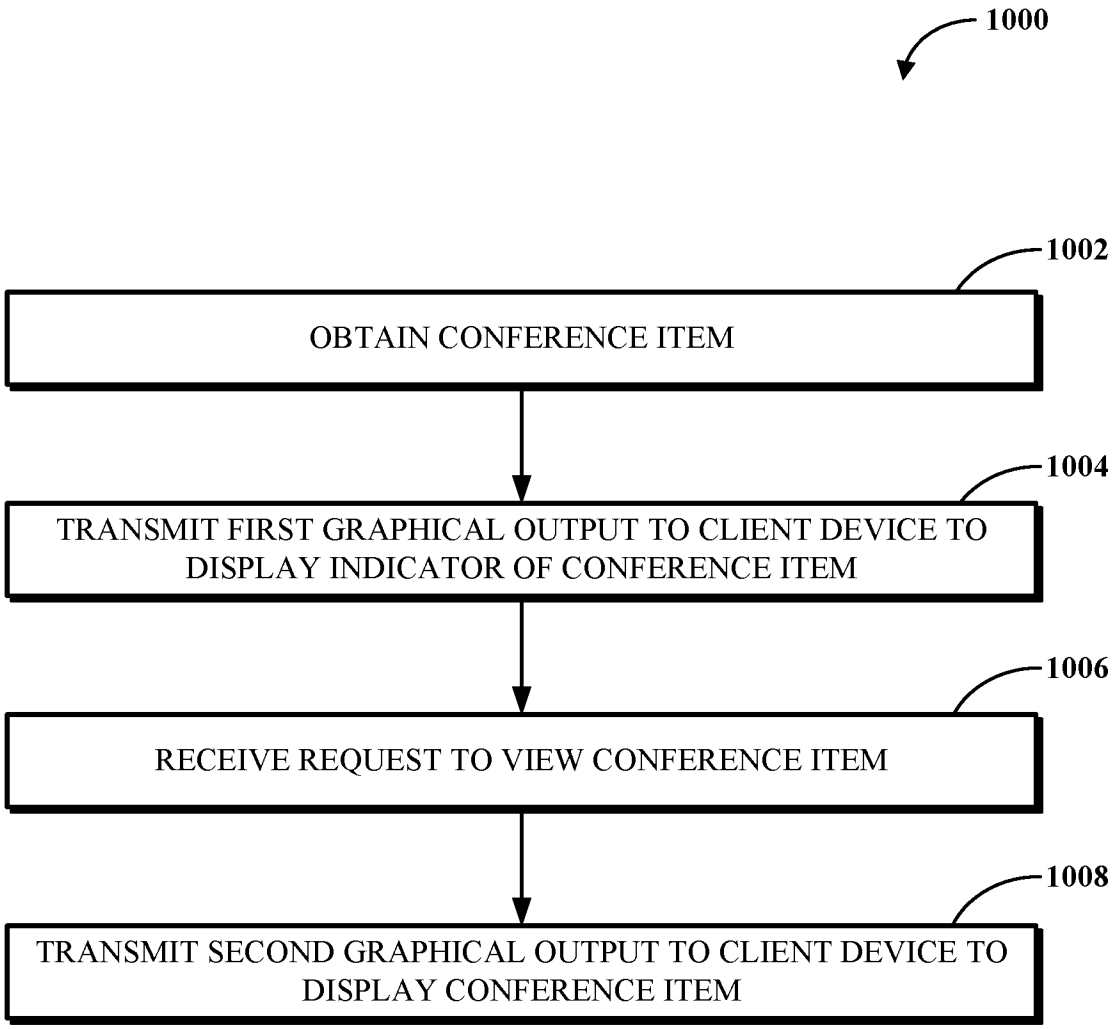

1000
1002
OBTAIN CONFERENCE ITEM
1004
TRANSMIT FIRST GRAPHICAL OUTPUT TO CLIENT DEVICE TO DISPLAY INDICATOR OF CONFERENCE ITEM
1006
RECEIVE REQUEST TO VIEW CONFERENCE ITEM
1008
TRANSMIT SECOND GRAPHICAL OUTPUT TO CLIENT DEVICE TO DISPLAY CONFERENCE ITEM

FIG. 10

PTO/AIA/01 (06-12)
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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	Previewing Conference Items Prior to Joining a Conference

As the below named inventor, I hereby declare that:

This declaration is directed to:

- [x] The attached application, or
- [ ] United States application or PCT international application number _____ filed on _____ .

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

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

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

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LEGAL NAME OF INVENTOR

Inventor: Nick Swerdlow Date (Optional) : Sep 9, 2021

Signature: Nick Swerdlow (Sep 9, 2021 11:02 PDT)

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