



APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/979,080	09/24/2019	10424290	358721-US-CNT	6520

69316 7590 09/04/2019

MICROSOFT CORPORATION
ONE MICROSOFT WAY
REDMOND, WA 98052

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

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

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

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

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

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

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

Microsoft Technology Licensing, LLC, Redmond, WA;
Gautam Deora, Hyderabad, INDIA;
Vikas Verma, Hyderabad, INDIA;
Saumya Chandra, Hyderabad, INDIA;
Manoj Lalavat, Hyderabad, INDIA;
Sonia Singh, Hyderabad, INDIA;
Badhri Ravikumar, Hyderabad, INDIA;
Anushree Bansal, Hyderabad, INDIA;
Snehita Peddi, Hyderabad, INDIA;

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

PART B - FEE(S) TRANSMITTAL

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

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

By fax, send to: (571)-273-2885

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

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

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

69316 7590 07/05/2019
MICROSOFT CORPORATION
ONE MICROSOFT WAY
REDMOND, WA 98052

Certificate of Mailing or Transmission

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/979,080	05/14/2018	Gautam Deora	358721-US-CNT	6520

TITLE OF INVENTION: Cross Device Companion Application For Phone

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	10/07/2019

EXAMINER	ART UNIT	CLASS-SUBCLASS
TIEU, BINH KIEN	2656	379-142010

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

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

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 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 International IP Law Group, PLLC

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)

Microsoft Technology Licensing, LLC

Redmond, Washington

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) ☐ Advance Order - # of Copies

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

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

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 50-4474

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

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

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

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

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

Authorized Signature /Barry D. Blount/

Date August 13, 2019

Typed or printed name Barry D. Blount

Registration No. 35,069

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	§	
Gautam Deora, et al.	§	Confirmation No. 6520
	§	
Serial No.: 15/979,080	§	Group Art Unit: 2656
	§	
Filed: May 14, 2018	§	Examiner: Tieu, Binh Kien
	§	
For: CROSS DEVICE COMPANION	§	Atty. Docket: 358721-US-CNT
APPLICATION FOR PHONE	§	
	§	

MAIL STOP ISSUE FEE

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

CERTIFICATE OF TRANSMISSION OR MAILING
37 C.F.R. 1.8

I hereby certify that this correspondence is being transmitted by facsimile to the United States Patent and Trademark Office in accordance with 37 C.F.R. § 1.6(d), or is being transmitted via the Office electronic filing system in accordance with 37 C.F.R. § 1.6(a)(4), or is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below:

August 13, 2019

Date

/Barry D. Blount/

Barry D. Blount, Reg. No. 35,069

Sir:

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

On July 5, 2019, a Notice of Allowability and a Notice of Allowance and Fee(s) Due was mailed for the above-referenced application. Attached to the Notice of Allowability, the Examiner provided a Statement of Reasons for Allowance. The Applicant respectfully asserts that the allowed claims recite a variety of unique features, including, but not limited to, the claim language cited by the Examiner in the Notice of Allowability. Therefore, although the Applicant gratefully acknowledges the Examiner's allowance of the present claims, the Applicant does not

concede that the reasons for allowance given by the Examiner are the only differences between the claims and the prior art.

Respectfully submitted,

Date: August 13, 2019

/Barry D. Blount/
Barry D. Blount
Reg. No. 35,069
(832) 375-0200

CORRESPONDENCE ADDRESS:

Microsoft Corporation
Patent Group Docketing Dept.
One Microsoft Way
Redmond, WA 98052

Electronic Patent Application Fee Transmittal

Application Number:	15979080			
Filing Date:	14-May-2018			
Title of Invention:	Cross Device Companion Application For Phone			
First Named Inventor/Applicant Name:	Gautam Deora			
Filer:	Barry D. Blount/Helen Tinsley			
Attorney Docket Number:	358721-US-CNT			
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:				
UTILITY APPL ISSUE FEE	1501	1	1000	1000

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1000

Electronic Acknowledgement Receipt

EFS ID:	36858045
Application Number:	15979080
International Application Number:	
Confirmation Number:	6520
Title of Invention:	Cross Device Companion Application For Phone
First Named Inventor/Applicant Name:	Gautam Deora
Customer Number:	69316
Filer:	Barry D. Blount/Helen Tinsley
Filer Authorized By:	Barry D. Blount
Attorney Docket Number:	358721-US-CNT
Receipt Date:	13-AUG-2019
Filing Date:	14-MAY-2018
Time Stamp:	13:34:59
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 1000
RAM confirmation Number	E20198CD36338466
Deposit Account	
Authorized User	

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

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	358721-US-CNT_Payment_of_Issue_fee-cpdf.pdf	179716 dc1706efe45fe50d634b21c93892b288bf41a739	no	1
Warnings:					
Information:					
2	Post Allowance Communication - Incoming	Comments_on_Reasons_for_Al- lowance.pdf	18803 ccc3e3de72b6c3e700225fcc12d09b2ae3151f90	no	2
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30248 44d28e60d9c9cb647d33a542c3b56ff659fdbc96	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			228767		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

69316 7590 07/05/2019
MICROSOFT CORPORATION
ONE MICROSOFT WAY
REDMOND, WA 98052

EXAMINER	
TIEU, BINH KIEN	
ART UNIT	PAPER NUMBER

2656

DATE MAILED: 07/05/2019

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/979,080	05/14/2018	Gautam Deora	358721-US-CNT	6520

TITLE OF INVENTION: Cross Device Companion Application For Phone

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	10/07/2019

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

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

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

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

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Commissioner for Patents
P.O. Box 1450
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69316 7590 07/05/2019
MICROSOFT CORPORATION
ONE MICROSOFT WAY
REDMOND, WA 98052

Certificate of Mailing or Transmission

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER	ART UNIT	CLASS-SUBCLASS
TIEU, BINH KIEN	2656	379-142010

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

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 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,

1 _____

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

2 _____

3 _____

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

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document 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 ☐ Government4a. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

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

☐ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

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

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

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

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/979,080	05/14/2018	Gautam Deora	358721-US-CNT	6520
69316	7590	07/05/2019	EXAMINER	
MICROSOFT CORPORATION			TIEU, BINH KIEN	
ONE MICROSOFT WAY			ART UNIT	
REDMOND, WA 98052			PAPER NUMBER	
			2656	
DATE MAILED: 07/05/2019				

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

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

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

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

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

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

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

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of the Patent Owner Ex. 2103

Notice of Allowability	Application No. 15/979,080	Applicant(s) Deora et al.	
	Examiner BINH K TIEU	Art Unit 2656	AIA (FITF) Status Yes

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

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

1. ☒ This communication is responsive to 06/24/2019.
☐ 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 2-21. 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 _____ 3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____ 4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____	5. ☐ Examiner's Amendment/Comment 6. ☒ Examiner's Statement of Reasons for Allowance 7. ☐ Other _____
---	---

/Binh Kien Tieu/
Primary Examiner, Art Unit 2656

DETAILED ACTION

Allowable Subject Matter

1. Claims 2-21 are allowed.

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

Independent claims 2, 17, and 21 were rejected under 35 U.S.C. § 103 as being obvious over U.S. Patent Application Publication No. 2015/0110261 by Ricci (hereinafter "Ricci") in view of U.S. Patent No. 9,866,684 to Eilts et al. (hereinafter "Eilts") or U.S. Patent Application Publication No. 2013/0215125 by Mahajan et al. (hereinafter "Mahajan") in the Final Office Action, mailed on 04/22/2019.

In the rejection, the applied references have a common assignee, Microsoft Technology Licensing, LLC., with the instant application (see page 2 of the Final Office Action) which required the Applicants to establish a statement pursuant to the 35 U.S.C. 102(b)(2)(C), not later than the effective filing date of the presently claimed invention, that both Eilts and Mahajan were owned by the same person or subject to an obligation of assignment to the same person.

In the response to the Final Office Action, the Applicants filed a statement, on pages 6 and 7 in the remarks dated on 06/05/2019, and stated that both Eilts and Mahajan, each was initially assigned to Microsoft Corporation. Prior to the filing of the present application, the same assignee as the present application. This assignment occurred on October 14, 2014 prior to the filing date of the present application. See Attachment 1.

The above statement is made in satisfaction of the requirements of 35 U.S.C. § 102(b)(2)(C) and accordingly, Eilts and Mahajan cannot be asserted as prior art against the present application.

Therefore, claims 2-21 are allowed with the same reasons set forth above.

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."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BINH TIEU whose telephone number is (571)272-7510. The examiner can normally be reached on 9-5. The Examiner's fax number is (571) 273-7510 and E-mail address: BINH.TIEU@USPTO.GOV.

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, CURTIS KUNTZ can be reached on (571) 272-7499.

Any response to this action should be mailed or handed carry deliveries to:

Commissioner of Patents and Trademarks

401 Dulany Street
Alexandria, VA 22314

Or faxed to: (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 FAIR system, see <http://pair-direct.uspto.gov>. If you have any questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Binh Kien Tieu/
Primary Examiner, Art Unit 2656

Date: July 2019

<i>Notice of References Cited</i>	Application/Control No. 15/979,080		Applicant(s)/Patent Under Reexamination Deora et al.	
	Examiner BINH K TIEU		Art Unit 2656	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-20180176367-A1	06-2018	Eilts; Jason Mathew	H04M3/42042	1/1
*	B	US-20170011740-A1	01-2017	GAUCI; Jason John	G06F17/28	1/1
*	C	US-20180027108-A1	01-2018	Yuen; Jenny	H04M1/72569	345/171
*	D	US-20140258503-A1	09-2014	Tong; Aaron	H04L12/1827	709/224
	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					
	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.

Issue Classification 	Application/Control No. 15/979,080	Applicant(s)/Patent Under Reexamination Deora et al.	
	Examiner BINH K TIEU	Art Unit 2656	

CPC						
Symbol					Type	Version
G10L	/	15	/	065	F	2013-01-01
H04M	/	3	/	42042	I	2013-01-01
H04L	/	67	/	306	I	2013-01-01
G06F	/	3	/	002	I	2013-01-01
G10L	/	15	/	00	I	2013-01-01
G10L	/	15	/	22	I	2013-01-01
G10L	/	15	/	26	I	2013-01-01
H04M	/	1	/	575	I	2013-01-01
H04M	/	1	/	72583	I	2013-01-01
H04M	/	1	/	72597	I	2013-01-01
H04W	/	8	/	26	I	2013-01-01
G06F	/	3	/	04842	I	2013-01-01
G06Q	/	10	/	109	I	2013-01-01
H04M	/	1	/	274516	I	2013-01-01
H04M	/	1	/	56	I	2013-01-01
H04M	/	1	/	72522	I	2013-01-01
H04M	/	7	/	0024	I	2013-01-01
H04L	/	67	/	22	I	2013-01-01
G06Q	/	10	/	101	I	2013-01-01
G06Q	/	10	/	107	I	2013-01-01
G06N	/	20	/	00	A	2019-01-01
H04M	/	3	/	42221	A	2013-01-01
H04M	/	3	/	4365	A	2013-01-01
H04M	/	7	/	0036	A	2013-01-01
H04W	/	88	/	02	A	2013-01-01
H04M	/	2203	/	2011	A	2013-01-01
H04M	/	2203	/	2038	A	2013-01-01
H04M	/	2250	/	68	A	2013-01-01
H04M	/	2201	/	40	A	2013-01-01
H04M	/	2250	/	60	A	2013-01-01
H04W	/	76	/	10	A	2018-02-01

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/Binh Kien Tieu/ Primary Examiner, Art Unit 2656	01 July 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

<i>Issue Classification</i> 	Application/Control No. 15/979,080	Applicant(s)/Patent Under Reexamination Deora et al.
	Examiner BINH K TIEU	Art Unit 2656

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version

NONE (Assistant Examiner) (Date)		Total Claims Allowed: 20	
/Binh Kien Tieu/ Primary Examiner, Art Unit 2656 (Primary Examiner) (Date)		01 July 2019 O.G. Print Claim(s)	O.G. Print Figure 1

Issue Classification 	Application/Control No. 15/979,080	Applicant(s)/Patent Under Reexamination Deora et al.
	Examiner BINH K TIEU	Art Unit 2656

INTERNATIONAL CLASSIFICATION			
CLAIMED			
H04M	/	3	/ 42
G10L	/	15	/ 065

NON-CLAIMED			
	/		/

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS
379	142.01

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					
379	142.04	142.14	142.17			

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/Binh Kien Tieu/ Primary Examiner, Art Unit 2656	01 July 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Issue Classification 	Application/Control No. 15/979,080	Applicant(s)/Patent Under Reexamination Deora et al.
	Examiner BINH K TIEU	Art Unit 2656

☐ 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	9	10	18	19										
1	2	10	11	19	20										
2	3	11	12	20	21										
3	4	12	13												
4	5	13	14												
5	6	14	15												
6	7	15	16												
7	8	16	17												
8	9	17	18												

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 20	
/Binh Kien Tieu/ Primary Examiner, Art Unit 2656 (Primary Examiner) _____ (Date) _____		01 July 2019	O.G. Print Claim(s) 1
			O.G. Print Figure 1

<i>Index of Claims</i> 	Application/Control No. 15/979,080	Applicant(s)/Patent Under Reexamination Deora et al.
	Examiner BINH K TIEU	Art Unit 2656

✓	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	10/22/2018	04/16/2019	07/01/2019						
	1	-	-	-						
1	2	✓	✓	=						
2	3	✓	✓	=						
3	4	✓	✓	=						
4	5	✓	✓	=						
5	6	✓	✓	=						
6	7	✓	✓	=						
7	8	✓	✓	=						
8	9	✓	✓	=						
9	10	✓	✓	=						
10	11	✓	✓	=						
11	12	✓	✓	=						
12	13	✓	✓	=						
13	14	✓	✓	=						
14	15	✓	✓	=						
15	16	✓	✓	=						
16	17	✓	✓	=						
17	18	✓	✓	=						
18	19	✓	✓	=						
19	20	✓	✓	=						
20	21	✓	✓	=						

Search Notes 	Application/Control No. 15/979,080	Applicant(s)/Patent Under Reexamination Deora et al.
	Examiner BINH K TIEU	Art Unit 2656

CPC - Searched*		
Symbol	Date	Examiner
H04L 65/1069, 65/1093, 51/04, 51/32	10/22/2018	BKT
H04M 2201/20, 2201/40, 3/44, 2203/251, 2203/352, 2203/353, 3/2209, 1/64, 3/493	10/22/2018	BKT
G06Q 10/10	10/22/2018	BKT
UPDATED SEARCHES	07/01/2019	BKT

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
379	88.19, 88.2, 93.17, 93.23, 142.01, 142.06, 142.09, 142.14, 142.17, 245, 247	10/22/2018	BKT
UPDATED	SEARCHES	04/16/2019	BKT
UPDATED	SEARCHES	07/01/2019	BKT

* 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
WEST DATABASES TERMS SEARCHES	10/22/2018	BKT
WEST DATABASES TERMS SEARCHES	04/16/2019	BKT

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
379	142.01, 142.01, 142.14, 142.17	07/01/2019	BKT

/Binh Kien Tieu/ Primary Examiner, Art Unit 2656	
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<i>Search Notes</i> 	Application/Control No. 15/979,080	Applicant(s)/Patent Under Reexamination Deora et al.
	Examiner BINH K TIEU	Art Unit 2656

/Binh Kien Tieu/ Primary Examiner, Art Unit 2656	
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	§	
Gautam Deora, et al.	§	Confirmation No. 6520
	§	
Serial No.: 15/979,080	§	Group Art Unit: 2656
	§	
Filed: May 14, 2018	§	Examiner: Tieu, Binh Kien
	§	
For: CROSS DEVICE COMPANION	§	Atty. Docket: 358721-US-CNT
APPLICATION FOR PHONE	§	
	§	

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Alexandria, VA 22313-1450

CERTIFICATE OF TRANSMISSION OR MAILING
37 C.F.R. 1.8

I hereby certify that this correspondence is being transmitted by facsimile to the United States Patent and Trademark Office in accordance with 37 C.F.R. § 1.6(d), or is being transmitted via the Office electronic filing system in accordance with 37 C.F.R. § 1.6(a)(4), or is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below:

June 24, 2019

Date

/Barry D. Blount/

Barry D. Blount, Reg. No. 35,069

AFTER FINAL RESPONSE
PURSUANT TO 37 C.F.R. § 1.116

In response to a Final Office Action dated April 22, 2019, the Applicants respectfully consider the enclosed statement pursuant to 35 U.S.C. 102(b)(2)(C) to show co-ownership of the references asserted by the Examiner, thereby obviating the indicated references. *See generally* M.P.E.P. § 717.02. The purpose of the statement set forth below is to place the case in condition for allowance based on feedback from the Examiner.

The Applicants assert that no fee is due in connection with the filing of this document because no fee is specified in the fee schedule set forth in the Code of Federal Regulations. However, should any fee under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to this document, the Commissioner is hereby authorized to deduct said fee from Deposit Account No. 50-4474; Order No. 358721-US-CNT. Authorized by Deposit Account user /Barry D. Blount, Reg. No. 35,069/ Barry D. Blount.

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 15/979,080	Filing Date 05/14/2018	☐ To be Mailed
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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 \$460 =	
☐ 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)	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT	06/24/2019		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	
	Total (37 CFR 1.16(i))	*	20	Minus	** 20	= 0
	Independent (37 CFR 1.16(h))	*	3	Minus	*** 3	= 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
AMENDMENT			CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	
	Total (37 CFR 1.16(i))	*		Minus	**	=
	Independent (37 CFR 1.16(h))	*		Minus	***	=
	☐ Application Size Fee (37 CFR 1.16(s))					
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					
TOTAL ADD'L FEE						
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.						SLIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".						/LISA E FULTON/
*** 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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	§	
Gautam Deora, et al.	§	Confirmation No. 6520
	§	
Serial No.: 15/979,080	§	Group Art Unit: 2656
	§	
Filed: May 14, 2018	§	Examiner: Tieu, Binh Kien
	§	
For: CROSS DEVICE COMPANION	§	Atty. Docket: 358721-US-CNT
APPLICATION FOR PHONE	§	
	§	

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June 24, 2019

Date

/Barry D. Blount/

Barry D. Blount, Reg. No. 35,069

AFTER FINAL RESPONSE
PURSUANT TO 37 C.F.R. § 1.116

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LISTING OF THE CLAIMS

The text of all pending claims, along with their current status, is set forth below.

1. (Canceled).
2. (Previously Presented) A method of providing context to a phone call, the method comprising:
 - receiving the phone call;
 - selecting a document that is relevant to the phone call based on tracking data that relates to a speech-to-text transcript of the phone call, the speech-to-text transcript generated by a cloud service, and data describing (i) a type of communication describing the phone call, and (ii) a subject of the phone call, the subject comprising an application associated with the phone call and a predetermined activity time; and
 - presenting the document.
3. (Previously Presented) The method of claim 2, comprising producing and storing previous tracking data associated with a previous phone call, wherein the previous tracking data associated with the previous phone call describes a previous type of communication of the previous phone call, and a previous subject of the previous phone call.
4. (Previously Presented) The method of claim 3, wherein the previous tracking data describes a previous document selected during the previous phone call.
5. (Previously Presented) The method of claim 4, wherein the previous tracking data describes a previous application used during the previous phone call, a previous search

performed during the previous phone call, and a previous note taken during the previous phone call.

6. (Previously Presented) The method of claim 2, comprising receiving an identifier of a caller that initiates the phone call.

7. (Previously Presented) The method of claim 6, wherein the identifier of the caller comprises an email address of the caller.

8. (Previously Presented) The method of claim 6, wherein the identifier comprises a social media identifier of the caller.

9. (Previously Presented) The method of claim 2, wherein the type of communication comprises one of a social communication, a work communication, a travel communication, an informational communication, a familial communication, an emergency communication, or a commercial communication.

10. (Previously Presented) The method of claim 2, where the subject of the phone call comprises one of a purchase, a payment, an appointment to be made, an appointment to keep, a communication to make, an edit to the document, and an edit to a presentation.

11. (Previously Presented) The method of claim 2, comprising selecting one or more devices associated with a recipient of the phone call to present the document.

12. (Previously Presented) The method of claim 11, where the one or more devices comprise one or more of a phone of the recipient, a tablet computer of the recipient, a laptop computer of the recipient, a desktop computer of the recipient, or a vehicle-based computer of the recipient.

13. (Previously Presented) The method of claim 11, wherein the one or more devices are selected based on one or more of a workload of the devices, and a proximity of the devices to the recipient.

14. (Previously Presented) The method of claim 2, comprising selecting a computer application based on the tracking data.

15. (Previously Presented) The method of claim 14, comprising selecting one or more devices associated with a recipient of the phone call based on a proximity of the devices to the recipient of the phone call.

16. (Previously Presented) The method of claim 15, comprising launching the computer application on the one or more devices.

17. (Previously Presented) A computer-readable storage device comprising computer-executable instructions that when executed by a computer processor, cause the computer processor to:

receive a phone call;

select a document that is relevant to the phone call based on tracking data that relates to a speech-to-text transcript of the phone call, the speech-to-text transcript generated by a cloud service, and data describing (i) a type of communication describing the phone call, and (ii) a subject of the phone call, the subject comprising an application associated with the phone call and a predetermined activity time;

select one or more devices associated with a recipient of the phone call to present the document; and

present the document on the one or more devices.

18. (Previously Presented) The computer-readable storage device of claim 17, wherein the computer-executable instructions cause the computer processor to produce and store previous tracking data associated with a previous phone call.

19. (Previously Presented) The computer-readable storage device of claim 18, wherein the previous tracking data describes a previous type of communication describing the previous phone call, and a previous subject of the previous phone call.

20. (Previously Presented) The computer-readable storage device of claim 19, wherein the previous tracking data describes a previous document selected during the previous phone call, a previous search performed during the previous phone call, and a previous note taken during the previous phone call.

21. (Previously Presented) An apparatus, comprising:
a processing unit;
a memory comprising computer-executable code that, when executed by the processing unit, cause the processing unit to:
receive a phone call;
select a computer application that is relevant to the phone call based on tracking data that relates to a speech-to-text transcript of the phone call, the speech-to-text transcript generated by a cloud service, and data describing (i) a type of communication describing the phone call, and (ii) a subject of the phone call, the subject comprising the computer application associated with the phone call and a predetermined activity time;
select one or more devices associated with a recipient of the phone call to execute the computer application; and
execute the computer application on the one or more devices.

REMARKS

The Applicants are filing this statement “pursuant to 35 U.S.C. § 102(b)(2)(C) establishing that, not later than the effective filing date of the claimed invention, the subject matter disclosed [in the asserted references] and the claimed invention were either owned by the same person or subject to an obligation of assignment to the same person or subject to a joint research agreement.” Office Action, p. 3. Accordingly, the Applicant’s assert the rejection under 35 U.S.C. § 103 is overcome.

Statement Pursuant to 35 U.S.C. § 102(b)(2)(C)

In the Final Office Action, the Examiner rejected independent claims 2, 17, and 21 under 35 U.S.C. § 103 as being obvious over U.S. Patent Application Publication No. 2015/0110261 by Ricci (hereinafter “Ricci”) in view of U.S. Patent No. 9,866,684 to Eilts et al. (hereinafter “Eilts”) or U.S. Patent Application Publication No. 2013/0215125 by Mahajan et al. (hereinafter “Mahajan”). As Examiner notes in the Final Office Action, “[t]he applied references have a common [assignee], Microsoft Technology Licensing, LLC., with the instant application.” Final Office Action, p. 2. The Applicants assert that, not later than the effective filing date of the presently claimed invention, both Eilts and Mahajan were owned by the same person or subject to an obligation of assignment to the same person.

Statement for Eilts

Eilts was and is assigned to Microsoft Technology Licensing, LLC, the same assignee as the present application. This statement is made in satisfaction of the requirements of 35 U.S.C. § 102(b)(2)(C) and accordingly, Eilts cannot be asserted as prior art against the present application.

Statement for Mahajan

Mahajan was and was initially assigned to Microsoft Corporation. Prior to the filing of the present application, Mahajan was assigned to Microsoft Technology Licensing, LLC,

the same assignee as the present application. This assignment occurred on October 14, 2014 prior to the filing date of the present application. *See* Attachment 1. This statement is made in satisfaction of the requirements of 35 U.S.C. § 102(b)(2)(C) and accordingly, Mahajan cannot be asserted as prior art against the present application.

The Applicants respectfully request withdrawal of the rejections under 35 U.S.C. § 103.

The statements made above, pursuant to 35 U.S.C. § 102(b)(2)(C) show that both Mahajan and Eilts cannot be asserted as prior art references for a 103 analysis. Accordingly, the remaining references asserted by the Examiner fail to disclose all of the elements of claims 2-21. Accordingly, those claims cannot be rendered obvious by the cited references.

Conclusion

The Applicants therefore respectfully request withdrawal of the rejections under 35 U.S.C. § 103. An indication of the allowability of those claims is earnestly solicited. If the Examiner wishes to discuss any issue regarding the present Response After Final Rejection by way of the telephone conference, the Examiner is kindly invited to contact the undersigned attorney at the telephone number indicated below.

Respectfully submitted,

Date: June 24, 2019

/Barry D. Blount/
Barry D. Blount
Reg. No. 35,069
International IP Law Group, PLLC
(832) 375-0200

CORRESPONDENCE ADDRESS:

Microsoft Corporation
Patent Group Docketing Dept.
One Microsoft Way
Redmond, WA 98052-

Attachment 1
For After Final Response
for Serial no. 15/979,080

**Assignment abstract of title for Application 13398351**

Invention title/Inventor	Patent	Publication	Application	PCT	International registration
SURFACING BUSINESS	9369562	20130215125	13398351		
APPLICATIONS BASED	Jun 14, 2016	Aug 22, 2013	Feb 16, 2012		
ON CALLING ACTIVITIES					
MILIND MAHAJAN,					
AMIT KUMAR					

Assignments (2 total)**Assignment 2**

Reel/frame	Execution date	Date recorded	Properties	Pages
034544/0541	Oct 14, 2014	Dec 9, 2014	3231	406

Conveyance

ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignors

MICROSOFT CORPORATION

Correspondent

CPA GLOBAL LIMITED
LIBERATION HOUSE
CASTLE STREET
ST HELIER, JE1 1BL JERSEY

Assignee

MICROSOFT TECHNOLOGY LICENSING, LLC
ONE MICROSOFT WAY
REDMOND, WASHINGTON 98052**Assignment 1**

Reel/frame	Execution date	Date recorded	Properties	Pages
031181/0480	Feb 14, 2012	Sep 11, 2013	1	3

Conveyance

ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignors

MAHAJAN, MILIND
KUMAR, AMIT

Correspondent

SHOOK, HARDY & BACON L.L.P.
2555 GRAND BLVD.
INTELLECTUAL PROPERTY DEPT.
KANSAS CITY, MO 64108-2613

Assignee

MICROSOFT CORPORATION
ONE MICROSOFT WAY
REDMOND, WASHINGTON 98052

Electronic Acknowledgement Receipt

EFS ID:	36393163
Application Number:	15979080
International Application Number:	
Confirmation Number:	6520
Title of Invention:	Cross Device Companion Application For Phone
First Named Inventor/Applicant Name:	Gautam Deora
Customer Number:	69316
Filer:	Barry D. Blount/Helen Tinsley
Filer Authorized By:	Barry D. Blount
Attorney Docket Number:	358721-US-CNT
Receipt Date:	24-JUN-2019
Filing Date:	14-MAY-2018
Time Stamp:	17:17:32
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		358721-US-CNT- Rule_116_Amendment_After_ Final_filed_6-24-19-w-A.pdf	66101 e9c93bfde69134ab879920bb9f7b66c5005 e372e	yes	9

Multipart Description/PDF files in .zip description			
Document Description	Start	End	
Response After Final Action	1	1	
Claims	2	5	
Applicant Arguments/Remarks Made in an Amendment	6	9	
Warnings:			
Information:			
Total Files Size (in bytes):		66101	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.			



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/979,080	05/14/2018	Gautam Deora	358721-US-CNT	6520
69316	7590	06/05/2019		
MICROSOFT CORPORATION ONE MICROSOFT WAY REDMOND, WA 98052			EXAMINER TIEU, BINH KIEN	
			ART UNIT	PAPER NUMBER
			2656	
			NOTIFICATION DATE	DELIVERY MODE
			06/05/2019	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):

chriochs@microsoft.com
usdoCKET@microsoft.com

<i>Applicant-Initiated Interview Summary</i>	Application No. 15/979,080	Applicant(s) Deora et al.	
	Examiner BINH K TIEU	Art Unit 2656	AIA (FITF) Status Yes

All participants (applicant, applicants representative, PTO personnel):

(1) BINH KIEN. TIEU. (3) ____.

(2) Applicants' Rep. Mr. Barry D. Blount. (4) ____.

Date of Interview: 30 May 2019.

Type: ☒ Telephonic ☐ Video Conference
 ☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
 If Yes, brief description: ____.

Issues Discussed ☐101 ☐112 ☐102 ☐103 ☒Others
 (For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 2-21.

Identification of prior art discussed: Eilts et al. (US 9,866,684).

Substance of Interview
 (For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Discussed about filing a statement by the applicants to be sufficient to establish that the AIA 35 U.S.C. 102(b)(2)(C) exception applies or to overcome the rejection under 35 U.S.C. 103 in the Final Office Action. The statement declares or provides the claimed invention under examination and the subject matter disclosed in the U.S. patent document applied as a prior art to be commonly owned by the same person or subject to an obligation of assignment to the same person. Examiner also suggested to the MPEP, chapter 2100, section 2154.02(c) for prior art exception under AIA 35 U.S.C. 102(b)(2)(c)..

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.

☐ Attachment

/Binh Kien Tieu/ Primary Examiner, Art Unit 2656	
---	--

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiners responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicants correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,-
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicants record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiners version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, Interview Record OK on the paper recording the substance of the interview along with the date and the examiners initials.



UNITED STATES PATENT AND TRADEMARK OFFICE

USPTO Automated Interview Request (AIR)

May 23 2019

This paper requesting to schedule and/or conduct an interview is appropriate because:

This submission is requested to be accepted as an authorization for this interview to communicate via the internet. Recognizing that Internet communications are not secure, I hereby authorize the USPTO to communicate with the undersigned concerning scheduling of the interview via video conference, instant messaging, or electronic mail, and to conduct the interview in accordance with office practice including video conferencing.

Name(s) :

Barry D Blount

S-signature:

/Barry D Blount/

Registration Number:

35069

U.S. Application Number:

15979080

Confirmation Number:

6520

E-mail Address:

barry.blount@iiplg.com

Phone Number:

+1 8323750201

Proposed Time of Interview:

5-30-2019 11:00 AM ET

Preferred Interview Type:

Telephonic

I am the applicant or applicant's representative for this application.

Topic for Discussion:

Current rejection under section 103



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/979,080	05/14/2018	Gautam Deora	358721-US-CNT	6520
69316	7590	04/22/2019		
MICROSOFT CORPORATION ONE MICROSOFT WAY REDMOND, WA 98052			EXAMINER TIEU, BINH KIEN	
			ART UNIT	PAPER NUMBER
			2656	
			NOTIFICATION DATE	DELIVERY MODE
			04/22/2019	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):

chriochs@microsoft.com
usdoCKET@microsoft.com

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. 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, 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.

This application currently names joint inventors. In considering patentability of the claims the examiner presumes that the subject matter of the various claims was commonly owned as of the effective filing date of the claimed invention(s) absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and effective filing dates of each claim that was not commonly owned as of the effective filing date of the later invention in order for the examiner to consider the applicability of 35 U.S.C. 102(b)(2)(C) for any potential 35 U.S.C. 102(a)(2) prior art against the later invention.

2. Claims 2, 6-17 and 21 are rejected under 35 U.S.C. 103 as being obvious over Ricci (US 2015/0110261, ***as cited in the previous Office Action***) in view of Eilts et al. (US 9,866,684) or Mahahan et al. (US 2013/0215125).

The applied references have a common, **Microsoft Technology Licensing, LLC**, with the instant application. Based upon the earlier effectively filed date of the reference, it constitutes prior art under 35 U.S.C. 102(a)(2).

This rejection under 35 U.S.C. 103 might be overcome by: (1) a showing under 37 CFR 1.130(a) that the subject matter disclosed in the reference was obtained directly or indirectly from the inventor or a joint inventor of this application and is thus not prior art in accordance with 35 U.S.C. 102(b)(2)(A); (2) a showing under 37 CFR 1.130(b) of a prior public disclosure under 35 U.S.C. 102(b)(2)(B); or (3) a statement pursuant to 35 U.S.C. 102(b)(2)(C) establishing that, not later than the effective filing date of the claimed invention, the subject matter disclosed and the claimed invention were either owned by the same person or subject to an obligation of assignment to the same person or subject to a joint research agreement. See generally MPEP § 717.02.

Regarding claim 2, Ricci teaches a method of providing context to a phone call, the method comprising:

receiving the phone call *(i.e., receiving a contact (para. [0039]) and the contact is established or setup; para. [0085])*,

selecting a document that is relevant to the phone call based on tracking data *(i.e., based on the identified keywords, documents are proactively retrieved; (para. [0086]))* that relates to a speech-to-text transcript of the phone call, the speech-to-text transcript generated by a cloud service *(i.e., the keywords from all one or more audio, video stream, etc., which is automatically converted by the virtual assistant module 172, as shown in figure 1, para. [0086])*, and data describing (i) a type of communication describing the phone call *(i.e., an email; para. [0086])*, and (ii) a subject of the phone call *(i.e., a personal or business call, electronic calendar entry description, subject identifier, etc., para. [0086]; also see para. [0087])*, and

presenting the document *(i.e., the document can be popped up a communication device or computer associated with the user; para. [0107], [0122] and [023])*.

It should be noticed that Ricci failed to clearly teach the feature of the subject comprising an application associated with the phone call and a predetermined activity time, as amended to the claim and argued by the Applicants in their remarks. However, Eilts et al. ("Eilts") teaches a process for real-time data exchange between users on a phone call wherein the data of the phone call comprising a subject string which is run on a GPS application. For example, a receiver (i.e., a called party) has a dinner party at a predetermined activity time and an incoming call from a dinner party participant who is late for the dinner party, and the GPS application displays GPS data indicating the late participant is driving around the neighborhood, the display may indicate the likelihood that the late participant needs directions to the dinner party. When the call is answered and the host (the receiver or called party) is providing directions to the dinner party (col.10, lines 16-30). Mahahan et al. ("Mahahan") also teaches a similar concept on surfacing business applications based on calling activities, such as booking airplane tickets and/or trip planning on a predetermined activities time (para. [0015]).

Therefore, it would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to incorporate the subject comprising an application associated with the phone call and a predetermined activity time, as taught by Eilts and Mahahan, into view of Ricci in order to automatically and quickly present the application and content at the time of receiving or during the phone call without manually searches for the application and content.

Regarding claim 6, Ricci further teaches the virtual assistant module 172 receives the call, identifies the third party telephone number of the external communication device 116 (i.e., caller's device) and attempts to determine identity of the third party (i.e., caller) and the collected information, such as an identifier of the caller, is provided to the first user (i.e., called party), via an association module 190 of the first user's device (para. [0085]).

Regarding claim 7, Ricci further teaches the log of incoming and outgoing calls with the identifier of the caller comprising email address of the caller (para. [0087]). Also, Ricci teaches the feature of automatically opening an email with email addresses of the user and named party (para. [0086]).

Regarding claim 8, Ricci further teaches the feature of searching the identity of the third party (such as a calling party or caller) by sending a search request to location service 112 which interacts with the social network(s) 124 and the search result (collected information) is sent to the user (para. [0085]). Thus, the requested/collected information comprises a social media identifier of the caller.

Regarding claim 9, Ricci further teaches the communication with email creation involved of either a personal or business name. Thus, the communication is either a business or commercial communication or a personal or familial communication (para. [0086]).

Regarding claim 10, Ricci further teaches the limitations of the claim, such as involving invoice, order numbers, etc. in para. [0087].

Regarding claim 11, Ricci further teaches the limitations of the claim, such as involving invoice, order numbers, etc. in para. [0092].

Regarding claim 12, Ricci further teaches the communication devices 156a-n (para. [0076]) and computers 152a-p (para. [0074] and [0092]).

Regarding claim 13, Ricci further teaches that if the retrieved document required word process application, the text equivalent can be emailed to the user or forwarded to the user's corresponding computer 152 (based on a workload of the user's corresponding computer)(para. [0090]) and corresponding display segment is identified and presented to the user either by way of the user's communication device 156 or computer 152 (based on a proximity of the devices 156 and 152 to the user) (para. [0092]).

Regarding claim 14, Ricci further teaches the limitations of the claim, such as opening email application in para. [0086], display summary in word processing application in para. [0090], and presenting corresponding display segment of inbound or outbound contact for the other party in one of the different applications, para. [0092].

Regarding claims 15 and 16, Ricci also teaches the limitations of the claim in para. [0086], [0090] and [0092].

Regarding claim 17, Ricci teaches a computer-readable storage device comprising computer-executable instructions that when executed by a computer processor *(i.e., in a memory of the communication server 136, as shown in figure 1; para. [0079])*, cause the computer processor to:

receive the phone call *(i.e., receiving a contact (para. [0039]) and the contact is established or setup; para. [0085])*;

select a document that is relevant to the phone call based on tracking data *(i.e., based on the identified keywords, documents are proactively retrieved; (para. [0086]))* that relates to a speech-to-text transcript of the phone call, the speech-to-text

transcript generated by a cloud service (*i.e., the keywords from all one or more audio, video stream, etc., which is automatically converted by the virtual assistant module 172, as shown in figure 1, para. [0086]*), and data describing (i) a type of communication describing the phone call (*i.e., an email; para. [0086]*), and (ii) a subject of the phone call (*i.e., a personal or business call, electronic calendar entry description, subject identifier, etc., para. [0086]; also see para. [0087]*), and

present the document (*i.e., the document can be popped up a communication device or computer associated with the user; para. [0107], [0122] and [023]*).

It should be noticed that Ricci failed to clearly teach the feature of the subject comprising an application associated with the phone call and a predetermined activity time, as amended to the claim and argued by the Applicants in their remarks. However, Eilts et al. ("Eilts") teaches a process for real-time data exchange between users on a phone call wherein the data of the phone call comprising a subject string which is run on a GPS application. For example, a receiver (*i.e., a called party*) has a dinner party at a predetermined activity time and an incoming call from a dinner party participated who is late for the dinner party, and the GPS application displays GPS data indicating the late participant is driving around the neighborhood, the display may indicate the likelihood that the late participant needs directions to the dinner party. When the call is answered and the host (the receiver or called party) is providing directions to the dinner party (col.10, lines 16-30). Mahahan et al. ("Mahahan") also teaches a similar concept on surfacing business applications based on calling activities, such as booking airplane tickets and/or trip planning on a predetermined activities time (para. [0015]).

Therefore, it would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to incorporate the subject comprising an

application associated with the phone call and a predetermined activity time, as taught by Eilts and Mahahan, into view of Ricci in order to automatically and quickly present the application and content at the time of receiving or during the phone call without manually searches for the application and content.

Regarding claim 21, Ricci teaches an apparatus, comprising:

a processing unit (*i.e., a communication server 136, as shown in figure 1*);

a memory comprising computer-executable code that, when executed by the processing unit (*i.e., a memory of the communication server 136, para. [0079]*), cause the processing unit to:

receive the phone call (*i.e., receiving a contact (para. [0039]) and the contact is established or setup; para. [0085]*);

select a document that is relevant to the phone call based on tracking data (*i.e., based on the identified keywords, documents are proactively retrieved; (para. [0086])*) that relates to a speech-to-text transcript of the phone call, the speech-to-text transcript generated by a cloud service (*i.e., the keywords from all one or more audio, video stream, etc., which is automatically converted by the virtual assistant module 172, as shown in figure 1, para. [0086]*), and data describing (i) a type of communication describing the phone call (*i.e., an email; para. [0086]*), and (ii) a subject of the phone call (*i.e., a personal or business call, electronic calendar entry description, subject identifier, etc., para. [0086]; also see para. [0087]*), and

present the document (*i.e., the document can be popped up a communication device or computer associated with the user; para. [0107], [0122] and [023]*).

It should be noticed that Ricci failed to clearly teach the feature of the subject comprising an application associated with the phone call and a predetermined activity

time, as amended to the claim and argued by the Applicants in their remarks. However, Eilts et al. ("Eilts") teaches a process for real-time data exchange between users on a phone call wherein the data of the phone call comprising a subject string which is run on a GPS application. For example, a receiver (i.e., a called party) has a dinner party at a predetermined activity time and an incoming call from a dinner party participant who is late for the dinner party, and the GPS application displays GPS data indicating the late participant is driving around the neighborhood, the display may indicate the likelihood that the late participant needs directions to the dinner party. When the call is answered and the host (the receiver or called party) is providing directions to the dinner party (col.10, lines 16-30). Mahahan et al. ("Mahahan") also teaches a similar concept on surfacing business applications based on calling activities, such as booking airplane tickets and/or trip planning on a predetermined activities time (para. [0015]).

Therefore, it would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to incorporate the subject comprising an application associated with the phone call and a predetermined activity time, as taught by Eilts and Mahahan, into view of Ricci in order to automatically and quickly present the application and content at the time of receiving or during the phone call without manually searches for the application and content.

3. Claims 3, 18 and 19 are rejected under 35 U.S.C. 103 as being unpatentable over Ricci (US 2015/0110261) in view of Eilts et al. (US 9,866,684) or Mahahan et al. (US 2013/0215125) as applied to claims 2 and 17 above, and further in view of

Anderson (US 2010/0074421) or Akavaram et al. (US 2015/0244668) (***Anderson and Akavaram were also cited in the previous Office Action***).

Regarding claims 3, 18 and 19, Ricci, Eilts and Mahahan, in combination, teaches all subject matters as claimed above, except for features of producing and storing previous tracking data associated with a previous phone call, wherein the previous tracking data associated with the previous phone call describes a previous type of communication of the previous phone call, and a previous subject of the previous phone call. However, Anderson teaches a data center, such as the data center 108 as shown in figure 1. The data center comprises a plurality of attributes, which includes the previous call attributes 208, as shown in figure 2, including type and subject of previous call (para. [0039]). Akavaram et al. ("Akavaram") teaches a plurality of databases 131 and a mining engine 130, as shown in figure 1, (para. [0019]). Previous communications or past communication of a user may mined for harvesting list of recipients and subject matter/ communication purposes of these previous communications or past communications with the user. The previous communications also comprises type of communication a user makes with a recipient, etc. (para. [0014] and [0020]).

Therefore, it would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to incorporate the use of the features of producing and storing previous tracking data associated with a previous phone call, wherein the previous tracking data associated with the previous phone call describes a previous type of communication of the previous phone call, and a previous subject of the previous phone call, as taught by Anderson or Akavaram, into view of

Ricci, Eilts and Mahahan in order to predict and setup activities of future calls for the user.

4. Claims 4, 5 and 20 are rejected under 35 U.S.C. 103 as being unpatentable over Ricci (US 2015/0110261) in view of Eilts et al. (US 9,866,684), Mahahan et al. (US 2013/0215125), Anderson (US 2010/0074421) or Akavaram et al. (US 2015/0244668) as applied to claims 1-3, 17-19 above, and further in view of Gordon (US 2018/032997, **also cited in the previous Office Action**).

Regarding claim 4, Ricci, Eilts, Mahahan, Anderson and Akavaram, in combination, teaches all subject matters as claimed above, except for features of wherein the previous tracking data describes a previous document selected during the previous phone call. However, Gordon teaches one or more pieces of content for identifying document selected and transmitted by one of communication participants during a previous communication (para. [1600]).

Therefore, it would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to incorporate the use of the features of wherein the previous tracking data describes a previous document selected during the previous phone call, as taught by Gordon, in to view of Ricci, Eilts, Mahahan, Anderson and Akavaram in order to predict and setup activities of future calls for the user.

Regarding claims 5 and 20, Ricci teaches the features of searching information of the third party (i.e., the calling party or caller) via different databases during a phone call, and updating data repositories, such as locally stored contact lists, etc. for

futures calls. Thus, the features of updating the data repositories and other locally stored contact lists during the call today are features of storing previous information of the previous phone call for the future calls (para. [0085]). Ricci further teaches a third operation to perform automatic tracking and billing, i.e., of a client record, including opening an email, retrieving a document, as described in para. [0086], as described a previous application used by the user for billing purposes (para. [0087] and [0089]). Thus, the combination of teachings of Ricci and Gordon teach the limitations of the claim.

Response to Arguments

5. Applicant's arguments with respect to claims 2-21 have been considered but are moot in view of the new ground(s) of rejection.

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 response to this final action is set to expire THREE MONTHS from the date of this action. In the event a first response 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 will the statutory period for response expire later than SIX MONTHS from the date of this final action.

Any response to this final action should be mailed to:

Box AF

**Commissioner of Patents and Trademarks
Washington, D.C. 20231**

Or faxed to:

**(703) 872-9314 or (571) 273-8300 (for formal communications;
Please mark "EXPEDITED PROCEDURE")**

Or:

**If it is an informal or draft communication, please label
"PROPOSED" or "DRAFT")**

Hand Carry Deliveries to:
Customer Service Window
(Randolph Building)
401 Dulany Street
Alexandria, VA 22314

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BINH TIEU whose telephone number is (571)272-7510. The examiner can normally be reached on 9-5. The Examiner's fax number is (571) 273-7510 and E-mail address: BINH.TIEU@USPTO.GOV.

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, CURTIS KUNTZ can be reached on (571) 272-7499.

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>. If you have any questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Binh Kien Tieu/
Primary Examiner, Art Unit 2656

Date: April 2019

Notice of References Cited	Application/Control No. 15/979,080		Applicant(s)/Patent Under Reexamination Deora et al.	
	Examiner BINH K TIEU		Art Unit 2656	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-9866684-B2	01-2018	Eilts; Jason	H04M3/42042	1/1
*	B	US-20130215125-A1	08-2013	MAHAJAN; MILIND	H04M1/72525	345/522
	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					
	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.

<i>Index of Claims</i> 	Application/Control No. 15/979,080	Applicant(s)/Patent Under Reexamination Deora et al.
	Examiner BINH K TIEU	Art Unit 2656

✓	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	10/22/2018	04/16/2019							
	1	-	-							
	2	✓	✓							
	3	✓	✓							
	4	✓	✓							
	5	✓	✓							
	6	✓	✓							
	7	✓	✓							
	8	✓	✓							
	9	✓	✓							
	10	✓	✓							
	11	✓	✓							
	12	✓	✓							
	13	✓	✓							
	14	✓	✓							
	15	✓	✓							
	16	✓	✓							
	17	✓	✓							
	18	✓	✓							
	19	✓	✓							
	20	✓	✓							
	21	✓	✓							

<i>Search Notes</i> 	Application/Control No. 15/979,080	Applicant(s)/Patent Under Reexamination Deora et al.
	Examiner BINH K TIEU	Art Unit 2656

CPC - Searched*		
Symbol	Date	Examiner
H04L 65/1069, 65/1093, 51/04, 51/32	10/22/2018	BKT
H04M 2201/20, 2201/40, 3/44, 2203/251, 2203/352, 2203/353, 3/2209, 1/64, 3/493	10/22/2018	BKT
G06Q 10/10	10/22/2018	BKT

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
379	88.19, 88.2, 93.17, 93.23, 142.01, 142.06, 142.09, 142.14, 142.17, 245, 247	10/22/2018	BKT
UPDATED	SEARCHES	04/16/2019	BKT

* 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
WEST DATABASES TERMS SEARCHES	10/22/2018	BKT
WEST DATABASES TERMS SEARCHES	04/16/2019	BKT

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

/Binh Kien Tieu/ Primary Examiner, Art Unit 2656	
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WEST Search History for Application 15979080

Creation Date: 2019041617:42

Prior Art Searches

Query	DB	Hits	Op.	Plur.	Thes.	Date
application same relevant same phone call	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	829	ADJ	YES		04-15-2019
(application same relevant same phone call) same subject	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	48	ADJ	YES		04-15-2019
(application same relevant same phone call same subject) and document	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	36	ADJ	YES		04-15-2019
(application same relevant same phone call same subject) and (document or content)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	45	ADJ	YES		04-15-2019

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	§	
Gautam Deora, et al.	§	Confirmation No. 6520
	§	
Serial No.: 15/979,080	§	Group Art Unit: 2656
	§	
Filed: May 14, 2018	§	Examiner: Tieu, Binh Kien
	§	
For: CROSS DEVICE COMPANION	§	Atty. Docket: 358721-US-CNT
APPLICATION FOR PHONE	§	
	§	

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

CERTIFICATE OF TRANSMISSION OR MAILING 37 C.F.R. 1.8	
I hereby certify that this correspondence is being transmitted by facsimile to the United States Patent and Trademark Office in accordance with 37 C.F.R. § 1.6(d), or is being transmitted via the Office electronic filing system in accordance with 37 C.F.R. § 1.6(a)(4), or is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below:	
January 18, 2019 Date	/Barry D. Blount/ Barry D. Blount, Reg. No. 35,069

Sir:

**AMENDMENT AND RESPONSE TO
OFFICE ACTION DATED OCTOBER 26, 2018**

In response to an Office Action dated October 26, 2018, the Applicants are providing the following Amendment and Response.

The Applicants assert that no fee is due in connection with the filing of this document because no fee is specified in the fee schedule set forth in the Code of Federal Regulations. However, should any fee under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to this document, the Commissioner is hereby authorized to deduct said fee from Deposit Account No. 50-4474; Order No. 358721-US-CNT. Authorized by Deposit Account user /Barry D. Blount, Reg. No. 35,069/ Barry D. Blount.

AMENDMENTS TO THE CLAIMS

Please amend claims 2, 17, and 21 as shown below. Pursuant to 37 C.F.R. § 1.121(c), the text of all pending claims, along with their current status, is set forth below.

1. (Canceled).
2. (Currently Amended) A method of providing context to a phone call, the method comprising:
 - receiving the phone call;
 - selecting a document that is relevant to the phone call based on tracking data that relates to a speech-to-text transcript of the phone call, the speech-to-text transcript generated by a cloud service, and data describing (i) a type of communication describing the phone call, and (ii) a subject of the phone call, the subject comprising an application associated with the phone call and a predetermined activity time; and
 - presenting the document.
3. (Previously Presented) The method of claim 2, comprising producing and storing previous tracking data associated with a previous phone call, wherein the previous tracking data associated with the previous phone call describes a previous type of communication of the previous phone call, and a previous subject of the previous phone call.
4. (Previously Presented) The method of claim 3, wherein the previous tracking data describes a previous document selected during the previous phone call.
5. (Previously Presented) The method of claim 4, wherein the previous tracking data describes a previous application used during the previous phone call, a previous search

performed during the previous phone call, and a previous note taken during the previous phone call.

6. (Previously Presented) The method of claim 2, comprising receiving an identifier of a caller that initiates the phone call.

7. (Previously Presented) The method of claim 6, wherein the identifier of the caller comprises an email address of the caller.

8. (Previously Presented) The method of claim 6, wherein the identifier comprises a social media identifier of the caller.

9. (Previously Presented) The method of claim 2, wherein the type of communication comprises one of a social communication, a work communication, a travel communication, an informational communication, a familial communication, an emergency communication, or a commercial communication.

10. (Previously Presented) The method of claim 2, where the subject of the phone call comprises one of a purchase, a payment, an appointment to be made, an appointment to keep, a communication to make, an edit to the document, and an edit to a presentation.

11. (Previously Presented) The method of claim 2, comprising selecting one or more devices associated with a recipient of the phone call to present the document.

12. (Previously Presented) The method of claim 11, where the one or more devices comprise one or more of a phone of the recipient, a tablet computer of the recipient, a laptop computer of the recipient, a desktop computer of the recipient, or a vehicle-based computer of the recipient.

13. (Previously Presented) The method of claim 11, wherein the one or more devices are selected based on one or more of a workload of the devices, and a proximity of the devices to the recipient.

14. (Previously Presented) The method of claim 2, comprising selecting a computer application based on the tracking data.

15. (Previously Presented) The method of claim 14, comprising selecting one or more devices associated with a recipient of the phone call based on a proximity of the devices to the recipient of the phone call.

16. (Previously Presented) The method of claim 15, comprising launching the computer application on the one or more devices.

17. (Currently Amended) A computer-readable storage device comprising computer-executable instructions that when executed by a computer processor, cause the computer processor to:

receive a phone call;

select a document that is relevant to the phone call based on tracking data that relates to a speech-to-text transcript of the phone call, the speech-to-text transcript generated by a cloud service, and data describing (i) a type of communication describing the phone call, and (ii) a subject of the phone call, the subject comprising an application associated with the phone call and a predetermined activity time;

select one or more devices associated with a recipient of the phone call to present the document; and

present the document on the one or more devices.

18. (Previously Presented) The computer-readable storage device of claim 17, wherein the computer-executable instructions cause the computer processor to produce and store previous tracking data associated with a previous phone call.

19. (Previously Presented) The computer-readable storage device of claim 18, wherein the previous tracking data describes a previous type of communication describing the previous phone call, and a previous subject of the previous phone call.

20. (Previously Presented) The computer-readable storage device of claim 19, wherein the previous tracking data describes a previous document selected during the previous phone call, a previous search performed during the previous phone call, and a previous note taken during the previous phone call.

21. (Currently Amended) An apparatus, comprising:
a processing unit;
a memory comprising computer-executable code that, when executed by the processing unit, cause the processing unit to:
receive a phone call;
select a computer application that is relevant to the phone call based on tracking data that relates to a speech-to-text transcript of the phone call, the speech-to-text transcript generated by a cloud service, and data describing (i) a type of communication describing the phone call, and (ii) a subject of the phone call, the subject comprising the computer application associated with the phone call and a predetermined activity time;
select one or more devices associated with a recipient of the phone call to execute the computer application; and
execute the computer application on the one or more devices.

REMARKS

The Applicants are filing this Amendment and Response in response to an Office Action dated October 26, 2018. At the time of the Office Action, claims 2-21 were pending. In response to the Office Action, the Applicants have amended claims 2, 17, and 21. No new matter has been added by way of these amendments. Upon entry of the amendments, claims 2-21 remain pending. Based on the foregoing amendments and the following remarks, the Applicants respectfully assert that all pending claims are in condition for allowance.

In the Office Action, the Examiner rejected claims 2, 6-17, and 21 under 35 U.S.C. § 102(a)(2) as being anticipated by U.S. Patent Application Publication No. 2015/0110261 by Ricci (hereinafter “Ricci”). Further, the Examiner rejected claims 3, 18, and 19 under 35 U.S.C. § 103 as being unpatentable over Ricci, in view of U.S. Patent Application Publication No. 2010/0074421 by Anderson (hereinafter “Anderson”) and U.S. Patent Application Publication No. 2015/0244668 by Akavaram et al. (hereinafter “Akavaram”). Lastly, the Examiner rejected claims 4, 5, and 20 under 35 U.S.C. § 103 as being unpatentable over Ricci, in view of Anderson and Akavaram as applied to claims 2 and 3, and further in view of U.S. Patent Application Publication No. 2018/0032997 by Gordon et al. (hereinafter “Gordon”). These rejections are discussed in detail below.

Non-Statutory Double Patenting Rejection

The Applicants respectfully request that the Examiner hold the provisional non-statutory double patenting rejection of claims 2-21 in abeyance pending the identification of allowable subject matter. Once allowable subject matter is identified, with no further rejections except for the non-statutory double rejection, the Applicants are willing to file a Terminal Disclaimer, if needed.

Claim Rejection under 35 U.S.C. § 102(a)(2)

With regard to the rejection of claims 2, 6-17, and 21 under 35 U.S.C. § 102(a)(2), the Examiner specifically stated that:

Regarding claim 2, Ricci teaches a method of providing context to a phone call, the method comprising: receiving the phone call (*i.e., receiving a contact (para. [0039]) and the contact is established or setup; para. [0085]*); selecting a document that is relevant to the phone call based on tracking data (*i.e., based on the identified keywords, documents are proactively retrieved; (para. [0086])*) that relates to a speech-to-text transcript of the phone call, the speech-to-text transcript generated by a cloud service (*i.e., the keywords from all one or more audio, video stream, etc., which is automatically converted by the virtual assistant module 172, as shown in figure 1, para. [0086]*), and data describing (i) a type of communication describing the phone call (*i.e., an email; para. [0086]*), and (ii) a subject of the phone call (*i.e., a personal or business call, electronic calendar entry description, subject identifier, etc., para. [0086]; also see para. [0087]*); and presenting the document (*i.e., the document can be popped up a communication device or computer associated with the user; para. [0107], [0122] and [023]*).

Office Action, pp. 2-3 (emphasis in original). Independent claims 17 and 21 were rejected for similar reasons. *See* Office Action, pp. 4-6.

Anticipation under 35 U.S.C. § 102 can be found only if a single reference shows exactly what is claimed. *Titanium Metals Corp. v. Banner*, 778 F.2d 775, 227 U.S.P.Q. 773 (Fed. Cir. 1985). For a prior art reference to anticipate under 35 U.S.C. § 102, every element of the claimed invention must be identically shown in a single reference. *In re Bond*, 910 F.2d 831, 15 U.S.P.Q.2d 1566 (Fed. Cir. 1990). To maintain a proper rejection under 35 U.S.C. § 102, a single reference must teach each and every limitation of the rejected claim. *Atlas Powder v. E.I. duPont de Nemours & Co.*, 750 F.2d 1569, 224

U.S.P.Q. 409 (Fed. Cir. 1984). The prior art reference also must show the *identical* invention “*in as complete detail as contained in the ... claim*” to support a *prima facie* case of anticipation. *Richardson v. Suzuki Motor Co.*, 868 F.2d 1226, 1236, 9 U.S.P.Q. 2d 1913,1920 (Fed. Cir. 1989) (emphasis added). Accordingly, the Applicants need only point to a single element not found in the cited reference to demonstrate that the cited reference fails to anticipate the claimed subject matter.

Claims 2, 6-17, and 21 are not anticipated by Ricci.

Independent claim 2 recites “selecting a document that is relevant to the phone call based on tracking data that relates to a speech-to-text transcript of the phone call, the speech-to-text transcript generated by a cloud service, and data describing (i) a type of communication describing the phone call, and (ii) a subject of the phone call, the subject comprising an application associated with the phone call and a predetermined activity time.” (Emphasis added). Independent claims 17 and 21 include similar recitations. As stated in the specification,

[0029] Method 300 includes, at 350, selecting a computer application that is relevant to the phone call. The computer application may be selected based, at least in part, on the first data and the second data. For example, if the first data indicates that this is a business call and the second data indicates that it’s about editing a document, then a word processing application suitable for editing the document may be started and presented on one or more devices available to a recipient of the phone call. The computer application relevant to the phone call may be, for example, an email application, a word processing application, a presentation processing application, a search application, a social media application, a calendar application, a payment application, or other application. Identifying and automatically starting and presenting a relevant application saves time and reduces the overhead associated with context switching.

[0041] Therefore, in one embodiment, the first logic 532 accesses data that was accessed by the party within a pre-determined time before the phone call or during the phone call. The pre-determined time before the phone call may be measured in clock time (e.g., 1 minute, 5 minutes) or may be measured in activity time (e.g., most recent action, 5 most recent actions). The data accessed by the party may include, for example, email data, text data, word processing data, presentation data, telephonic data, and social media data. The social media data may include, for example, posts made or viewed by the caller, videos made or viewed by the caller, or other social media information.

Specification, paras. [0029] and [0041].

By contrast, Ricci describes techniques for monitoring user actions and performing operations related to the user actions. Ricci, para. [0008]. For example, Ricci describes analyzing a voice conversation between a subscriber and a nonsubscriber. Ricci, para. [0086]. Ricci further describes a virtual assistant module that can identify keywords from the voice conversation and open files related to the subscriber or nonsubscriber and the keywords. *Id.* However, Ricci fails to describe selecting a document based on an application associated with a phone call and a predetermined activity time. In fact, Ricci is silent as to the predetermined activity time of the present claims. Accordingly, Ricci cannot describe “selecting a document that is relevant to the phone call based on tracking data that relates to a speech-to-text transcript of the phone call, the speech-to-text transcript generated by a cloud service, and data describing (i) a type of communication describing the phone call, and (ii) a subject of the phone call, the subject comprising an application associated with the phone call and a predetermined activity time,” as generally recited in the present claims. Thus, Ricci cannot anticipate the present claims.

For at least the reasons discussed above, Ricci cannot anticipate independent claims 2, 17, and 21, or their respective dependent claims 6-16. Accordingly, the Applicants

respectfully request that the Examiner withdraw the rejection under 35 U.S.C. § 102(a)(2), and allow the claims to issue.

Claim Rejections under 35 U.S.C. § 103

The Applicants respectfully traverse the rejection of claims 3, 18, and 19 under 35 U.S.C. § 103 as being unpatentable over Ricci, in view of Anderson and Akavaram.

The burden of establishing a *prima facie* case of obviousness falls on the Examiner. *Ex parte Wolters and Kuypers*, 214 U.S.P.Q. 735 (B.P.A.I. 1979). To establish *prima facie* obviousness of a claimed invention, all the claim limitations must be taught or suggested by the prior art. *In re Royka*, 180 U.S.P.Q. 580 (C.C.P.A. 1974). Although a showing of obviousness under 35 U.S.C. § 103 does not require an express teaching, suggestion or motivation to combine prior art references, such a showing has been described by the Supreme Court as providing a “helpful insight” into the obviousness inquiry. *KSR Int’l. Co. v. Teleflex, Inc.*, No. 04-1350, 550 U.S. 398, 401, 82 U.S.P.Q.2d 1385, 1389 (2007). Moreover, obviousness cannot be established by a mere showing that each claimed element is present in the prior art. *Id.* The Examiner must cite a compelling reason why a person having ordinary skill in the art would combine known elements in order to support a proper rejection under 35 U.S.C. § 103. *Id.*

Second, when prior art references require a selected combination to render obvious a subsequent invention, there must be some reason for the combination other than the hindsight gained from the invention itself, *i.e.*, something in the prior art as a whole must suggest the desirability, and thus the obviousness, of making the combination. *Uniroyal Inc. v. Rudkin-Wiley Corp.*, 837 F.2d 1044, 5 U.S.P.Q.2d 1434 (Fed. Cir. 1988). One cannot, in hindsight, selectively pick among isolated disclosures to deprecate a claimed invention. *In re Fine*, 837 F.2d 1071, 5 U.S.P.Q.2d 1596, 1600 (Fed. Cir. 1988).

Ricci, Anderson, and Akavaram, alone or in any type of combination, fail to disclose all of the elements of claims 3, 18, and 19.

The Applicants respectfully traverse the rejection of claims 3, 18, and 19 as being unpatentable over Ricci, in view of Anderson and Akavaram. Claims 3, 18, and 19 ultimately depend from claims 2 and 17, which are allowable over Ricci for at least the reasons discussed above. Furthermore, Anderson and Akavaram do not remedy the deficiencies of Ricci, either alone or in any hypothetical combination.

Rather, Anderson describes techniques for automated telemarketing based on potential customer data. Anderson, para. [0007]. For example, Anderson describes initiating a phone call, receiving a notification that a potential customer has answered the phone call, sending a verbal greeting to the potential customer, and updating potential customer data based on a conversation with the potential customer. *Id.* However, Anderson fails to describe selecting a document based on an application associated with a phone call and a predetermined activity time. In fact, Anderson is silent as to the predetermined activity time of the present claims. Accordingly, Anderson cannot describe “selecting a document that is relevant to the phone call based on tracking data that relates to a speech-to-text transcript of the phone call, the speech-to-text transcript generated by a cloud service, and data describing (i) a type of communication describing the phone call, and (ii) a subject of the phone call, the subject comprising an application associated with the phone call and a predetermined activity time,” as generally recited in the present claims.

Furthermore, Akavaram describes techniques for tailoring communication methodologies across various communication platforms. Akavaram, para. [0003]. For example, Akavaram describes suggesting which interpersonal communication platform (ICP) to employ for target recipients or suggesting the use of a tailored communication platform (TCP) for analyzing past communications of a user. *Id.* However, Akavaram fails to describe selecting a document based on an application associated with a phone call and a predetermined activity time. In fact, Akavaram is silent as to the predetermined activity

time of the present claims. Accordingly, Akavaram cannot describe “selecting a document that is relevant to the phone call based on tracking data that relates to a speech-to-text transcript of the phone call, the speech-to-text transcript generated by a cloud service, and data describing (i) a type of communication describing the phone call, and (ii) a subject of the phone call, the subject comprising an application associated with the phone call and a predetermined activity time,” as generally recited in the present claims.

For at least the reasons discussed above, the cited references, alone or in any sort of hypothetical combinations, fail to disclose all of the elements of claims 3, 18, and 19. Therefore, the Applicants respectfully request that the Examiner withdraw the rejection under 35 U.S.C. § 103 and allow the claims to issue.

Ricci, Anderson, Akavaram, and Gordon, alone or in any type of combination, fail to disclose all of the elements of claims 4, 5, and 20.

The Applicants respectfully traverse the rejection of claims 4, 5, and 20 as being unpatentable over Ricci, in view of Anderson and Akavaram as applied to claims 2 and 3, and further in view of Gordon. Claims 4, 5, and 20 ultimately depend from claims 2 and 17, which are allowable over Ricci, Anderson, and Akavaram for at least the reasons discussed above. Furthermore, Gordon does not remedy the deficiencies of Ricci, Anderson, and Akavaram, either alone or in any hypothetical combination.

Rather, Gordon describes techniques for determining whether to prompt an action by a platform associated with a mobile device. Gordon, para. [0003]. For example, Gordon describes displaying a user input prompt on a mobile device in response to the mobile device establishing communication with a point-of-sale terminal. *Id.* However, Gordon fails to describe selecting a document based on an application associated with a phone call and a predetermined activity time. In fact, Gordon is silent as to the predetermined activity time of the present claims. Accordingly, Gordon cannot describe “selecting a document that is relevant to the phone call based on tracking data that relates to a speech-to-text

transcript of the phone call, the speech-to-text transcript generated by a cloud service, and data describing (i) a type of communication describing the phone call, and (ii) a subject of the phone call, the subject comprising an application associated with the phone call and a predetermined activity time,” as generally recited in the present claims.

For at least the reasons discussed above, the cited references, alone or in any sort of hypothetical combinations, fail to disclose all of the elements of claims 4, 5, and 20. Therefore, the Applicants respectfully request that the Examiner withdraw the rejection under 35 U.S.C. § 103 and allow the claims to issue.

The Applicants respectfully request withdrawal of the rejections under 35 U.S.C. 103.

The cited references relied upon by the Examiner, either alone or in any sort of hypothetical combination; fail to disclose all of the elements of claims 3-5 and 18-20. Accordingly, those claims cannot be rendered obvious by the cited references. The Applicants therefore respectfully request withdrawal of the rejections under 35 U.S.C. § 103(a). An indication of the allowability of those claims is earnestly solicited.

Conclusion

The Applicants respectfully assert that all pending claims are in condition for allowance. However, if the Examiner wishes to discuss any issue regarding the present

application by way of a telephone conference, the Examiner is kindly invited to contact the undersigned attorney at the telephone number indicated below.

Respectfully submitted,

Date: January 18, 2019

/Barry D. Blount/
Barry D. Blount
Reg. No. 35,069
(832) 375-0200

CORRESPONDENCE ADDRESS:

Microsoft Corporation
Patent Group Docketing Dept.
One Microsoft Way
Redmond, WA 98052

Electronic Acknowledgement Receipt

EFS ID:	34905394
Application Number:	15979080
International Application Number:	
Confirmation Number:	6520
Title of Invention:	Cross Device Companion Application For Phone
First Named Inventor/Applicant Name:	Gautam Deora
Customer Number:	69316
Filer:	Barry D. Blount/Yvonne Martinez
Filer Authorized By:	Barry D. Blount
Attorney Docket Number:	358721-US-CNT
Receipt Date:	18-JAN-2019
Filing Date:	14-MAY-2018
Time Stamp:	17:54:08
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		358721-US-CNT- Response_to_Non- Final_OA_due_1-26-19.pdf	80748	yes	14
			66a016cbc8bf6f5975963844e5871a0d7e2a8690		

Multipart Description/PDF files in .zip description			
Document Description	Start	End	
Amendment/Req. Reconsideration-After Non-Final Reject	1	1	
Claims	2	5	
Applicant Arguments/Remarks Made in an Amendment	6	14	

Warnings:

Information:

Total Files Size (in bytes):	80748
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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

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

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 15/979,080	Filing Date 05/14/2018	☐ To be Mailed
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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), (l), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 = *		x \$100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 = *		x \$460 =	
☐ 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)	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT	01/18/2019		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	x \$100 = 0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0	x \$460 = 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
AMENDMENT			CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	
	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".						/DELEACHES M YOUNG/
*** 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.
15/979,080	05/14/2018	Gautam Deora	358721-US-CNT	6520
69316	7590	10/26/2018		
MICROSOFT CORPORATION ONE MICROSOFT WAY REDMOND, WA 98052			EXAMINER TIEU, BINH KIEN	
			ART UNIT	PAPER NUMBER
			2656	
			NOTIFICATION DATE	DELIVERY MODE
			10/26/2018	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):

chriochs@microsoft.com
usdoCKET@microsoft.com

Continuation of Application Papers 11): 05/14/2018

DETAILED ACTION

Response to Amendment

1. The Applicants' preliminary amendment filed, on 05/14/2018 was received and entered. As the results, the original independent claim 1 was cancelled. New claims 2-21 were added, wherein claims 2, 17 and 21 are independent claims in this application at this time.

Claim Rejections - 35 USC § 102

2. 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)(2) the claimed invention was described in a patent issued under section 151, or in an application for patent published or deemed published under section 122(b), in which the patent or application, as the case may be, names another inventor and was effectively filed before the effective filing date of the claimed invention.

3. Claims 2, 6-17 and 21 are rejected under 35 U.S.C. 102(a)(2) as being anticipated by Ricci (US 2015/0110261).

Regarding claim 2, Ricci teaches a method of providing context to a phone call, the method comprising:

receiving the phone call (*i.e., receiving a contact (para. [0039]) and the contact is established or setup; para. [0085]*);

selecting a document that is relevant to the phone call based on tracking data (*i.e., based on the identified keywords, documents are proactively retrieved; (para. [0086])*) that relates to a speech-to-text transcript of the phone call, the speech-to-text transcript generated by a cloud service (*i.e., the keywords from all one or more audio,*

video stream, etc., which is automatically converted by the virtual assistant module 172, as shown in figure 1, para. [0086]), and data describing (i) a type of communication describing the phone call ***(i.e., an email; para. [0086])***, and (ii) a subject of the phone call ***(i.e., a personal or business call, electronic calendar entry description, subject identifier, etc., para. [0086]; also see para. [0087])***; and

presenting the document ***(i.e., the document can be popped up a communication device or computer associated with the user; para. [0107], [0122] and [023])***.

Regarding claim 6, Ricci further teaches the virtual assistant module 172 receives the call, identifies the third party telephone number of the external communication device 116 (i.e., caller's device) and attempts to determine identity of the third party (i.e., caller) and the collected information, such as an identifier of the caller, is provided to the first user (i.e., called party), via an association module 190 of the first user's device (para. [0085]).

Regarding claim 7, Ricci further teaches the log of incoming and outgoing calls with the identifier of the caller comprising email address of the caller (para. [0087]). Also, Ricci teaches the feature of automatically opening an email with email addresses of the user and named party (para. [0086]).

Regarding claim 8, Ricci further teaches the feature of searching the identity of the third party (such as a calling party or caller) by sending a search request to location service 112 which interacts with the social network(s) 124 and the search result (collected information) is sent to the user (para. [0085]). Thus, the requested/collected information comprises a social media identifier of the caller.

Regarding claim 9, Ricci further teaches the communication with email creation involved of either a personal or business name. Thus, the communication is either a

business or commercial communication or a personal or familial communication (para. [0086]).

Regarding claim 10, Ricci further teaches the limitations of the claim, such as involving invoice, order numbers, etc. in para. [0087].

Regarding claim 11, Ricci further teaches the limitations of the claim, such as involving invoice, order numbers, etc. in para. [0092].

Regarding claim 12, Ricci further teaches the communication devices 156a-n (para. [0076]) and computers 152a-p (para. [0074] and [0092]).

Regarding claim 13, Ricci further teaches that if the retrieved document required word process application, the text equivalent can be emailed to the user or forwarded to the user's corresponding computer 152 (based on a workload of the user's corresponding computer)(para. [0090]) and corresponding display segment is identified and presented to the user either by way of the user's communication device 156 or computer 152 (based on a proximity of the devices 156 and 152 to the user)(para. [0092]).

Regarding claim 14, Ricci further teaches the limitations of the claim, such as opening email application in para. [0086], display summary in word processing application in para. [0090], and presenting corresponding display segment of inbound or outbound contact for the other party in one of the different applications, para. [0092].

Regarding claims 15 and 16, Ricci also teaches the limitations of the claim in para. [0086], [0090] and [0092].

Regarding claim 17, Ricci teaches a computer-readable storage device comprising computer-executable instructions that when executed by a computer

processor (*i.e., in a memory of the communication server 136, as shown in figure 1; para. [0079]*), cause the computer processor to:

receive the phone call (*i.e., receiving a contact (para. [0039]) and the contact is established or setup; para. [0085]*);

select a document that is relevant to the phone call based on tracking data (*i.e., based on the identified keywords, documents are proactively retrieved; (para. [0086])*) that relates to a speech-to-text transcript of the phone call, the speech-to-text transcript generated by a cloud service (*i.e., the keywords from all one or more audio, video stream, etc., which is automatically converted by the virtual assistant module 172, as shown in figure 1, para. [0086]*), and data describing (i) a type of communication describing the phone call (*i.e., an email; para. [0086]*), and (ii) a subject of the phone call (*i.e., a personal or business call, electronic calendar entry description, subject identifier, etc., para. [0086]; also see para. [0087]*); and

present the document (*i.e., the document can be popped up a communication device or computer associated with the user; para. [0107], [0122] and [023]*).

Regarding claim 21, Ricci teaches an apparatus, comprising:

a processing unit (*i.e., a communication server 136, as shown in figure 1*);

a memory comprising computer-executable code that, when executed by the processing unit (*i.e., a memory of the communication server 136, para. [0079]*), cause the processing unit to:

receive the phone call (*i.e., receiving a contact (para. [0039]) and the contact is established or setup; para. [0085]*);

select a document that is relevant to the phone call based on tracking data (*i.e., based on the identified keywords, documents are proactively retrieved; (para. [0086])*)

that relates to a speech-to-text transcript of the phone call, the speech-to-text transcript generated by a cloud service (*i.e., the keywords from all one or more audio, video stream, etc., which is automatically converted by the virtual assistant module 172, as shown in figure 1, para. [0086]*), and data describing (i) a type of communication describing the phone call (*i.e., an email; para. [0086]*), and (ii) a subject of the phone call (*i.e., a personal or business call, electronic calendar entry description, subject identifier, etc., para. [0086]; also see para. [0087]*); and

present the document (*i.e., the document can be popped up a communication device or computer associated with the user; para. [0107], [0122] and [023]*).

Claim Rejections - 35 USC § 103

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, 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.

This application currently names joint inventors. In considering patentability of the claims the examiner presumes that the subject matter of the various claims was commonly owned as of the effective filing date of the claimed invention(s) absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and effective filing dates of each claim that was not commonly owned as of the effective filing date of the later invention in order for the examiner to consider the applicability of 35 U.S.C. 102(b)(2)(C) for any potential 35 U.S.C. 102(a)(2) prior art against the later invention.

5. Claims 3, 18 and 19 are rejected under 35 U.S.C. 103 as being unpatentable over Ricci (US 2015/0110261) in view of Anderson (US 2010/0074421) or Akavaram et al. (US 2015/0244668).

Regarding claims 3, 18 and 19, Ricci teaches all subject matters as claimed above, except for features of producing and storing previous tracking data associated with a previous phone call, wherein the previous tracking data associated with the previous phone call describes a previous type of communication of the previous phone call, and a previous subject of the previous phone call. However, Anderson teaches a data center, such as the data center 108 as shown in figure 1. The data center comprises a plurality of attributes, which includes the previous call attributes 208, as shown in figure 2, including type and subject of previous call (para. [0039]). Akavaram et al. ("Akavaram") teaches a plurality of databases 131 and a mining engine 130, as shown in figure 1, (para. [0019]). Previous communications or past communication of a user may mined for harvesting list of recipients and subject matter/ communication purposes of these previous communications or past communications with the user. The previous communications also comprises type of communication a user makes with a recipient, etc. (para. [0014] and [0020]).

Therefore, it would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to incorporate the use of the features of producing and storing previous tracking data associated with a previous phone call, wherein the previous tracking data associated with the previous phone call describes a previous type of communication of the previous phone call, and a previous subject of

the previous phone call, as taught by Anderson or Akavaram, into view of Ricci in order to predict and setup activities of future calls for the user.

6. Claims 4, 5 and 20 are rejected under 35 U.S.C. 103 as being unpatentable over Ricci (US 2015/0110261) in view of Anderson (US 2010/0074421) or Akavaram et al. (US 2015/0244668) as applied to claims 2 and 3 above, and further in view of Gordon (US 2018/032997).

Regarding claim 4, Ricci, Anderson and Akavaram, in combination teaches all subject matters as claimed above, except for features of wherein the previous tracking data describes a previous document selected during the previous phone call. However, Gordon teaches one or more pieces of content for identifying document selected and transmitted by one of communication participants during a previous communication (para. [1600]).

Therefore, it would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to incorporate the use of the features of wherein the previous tracking data describes a previous document selected during the previous phone call, as taught by Gordon, in to view of Ricci, Anderson and Akavaram in order to predict and setup activities of future calls for the user.

Regarding claims 5 and 20, Ricci teaches the features of searching information of the third party (i.e., the calling party or caller) via different databases during a phone call, and updating data repositories, such as locally stored contact lists, etc. for futures calls. Thus, the features of updating the data repositories and other locally stored contact lists during the call today are features of storing previous information of the

previous phone call for the future calls (para. [0085]). Ricci further teaches a third operation to perform automatic tracking and billing, i.e., of a client record, including opening an email, retrieving a document, as described in para. [0086], as described a previous application used by the user for billing purposes (para. [0087] and [0089]). Thus, the combination of teachings of Ricci and Gordon teach the limitations of the claim.

Double Patenting

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

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on nonstatutory double patenting provided the reference application or patent either is shown to be

commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP §§ 706.02(l)(1) - 706.02(l)(3) for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/patent/patents-forms. The filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to www.uspto.gov/patents/process/file/efs/guidance/eTD-info-l.jsp.

8. Claims 2-21 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-20 of U.S. Patent No. 10,002,607. Although the claims at issue are not identical, they are not patentably distinct from each other because the claims of the present application are broader in scope than the claims of the patent and/or recited in different words (In re KARLSON (CCPA) 136 USPQ 184 (1963)).

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BINH TIEU whose telephone number is (571)272-7510. The examiner can normally be reached on 9-5. The Examiner's fax number is (571) 273-7510 and E-mail address: BINH.TIEU@USPTO.GOV.

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, CURTIS KUNTZ can be reached on (571) 272-7499.

Any response to this action should be mailed or handed carry deliveries to:

Commissioner of Patents and Trademarks

401 Dulany Street
Alexandria, VA 22314

Or faxed to: (571) 273-8300

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/Binh Kien Tieu/
Primary Examiner, Art Unit 2656

Date: October 2018

<i>Notice of References Cited</i>	Application/Control No. 15/979,080		Applicant(s)/Patent Under Reexamination	
	Examiner BINH K TIEU		Art Unit 2656	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-20180032997-A1	02-2018	Gordon; George A.	G06Q20/3224	1/1
*	B	US-20150244668-A1	08-2015	Akavaram; Vikrant	H04L51/36	709/206
*	C	US-20100074421-A1	03-2010	Anderson; David J.	H04M3/5158	379/88.04
*	D	US-20150110261-A1	04-2015	Ricci; Christopher P.	H04M3/4931	379/216.01
*	E	US-8898219-B2	11-2014	Ricci; Christopher	H04M3/4931	709/203
*	F	US-8909693-B2	12-2014	Frissora; Anthony	G06F9/543	709/203
	G					
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	I					
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FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Search Notes 	Application/Control No. 15/979,080	Applicant(s)/Patent Under Reexamination Deora et al.
	Examiner BINH K TIEU	Art Unit 2656

CPC - Searched*		
Symbol	Date	Examiner
H04L 65/1069, 65/1093, 51/04, 51/32	10/22/2018	BKT
H04M 2201/20, 2201/40, 3/44, 2203/251, 2203/352, 2203/353, 3/2209, 1/64, 3/493	10/22/2018	BKT
G06Q 10/10	10/22/2018	BKT

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
379	88.19, 88.2, 93.17, 93.23, 142.01, 142.06, 142.09, 142.14, 142.17, 245, 247	10/22/2018	BKT

* 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
WEST DATABASES TERMS SEARCHES	10/22/2018	BKT

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

/Binh Kien Tieu/ Primary Examiner, Art Unit 2656	
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<i>Index of Claims</i> 	Application/Control No. 15/979,080	Applicant(s)/Patent Under Reexamination Deora et al.
	Examiner BINH K TIEU	Art Unit 2656

✓	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	10/22/2018								
	1	-								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								
	10	✓								
	11	✓								
	12	✓								
	13	✓								
	14	✓								
	15	✓								
	16	✓								
	17	✓								
	18	✓								
	19	✓								
	20	✓								
	21	✓								

Doc code: IDS

PTO/SB/08a (02-18)

Doc description: Information Disclosure Statement (IDS) Filed

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 (Not for submission under 37 CFR 1.99)

Application Number	15979080
Filing Date	2018-05-14
First Named Inventor	Gautam Deora
Art Unit	2652
Examiner Name	Not Yet Assigned
Attorney Docket Number	358721-US-CNT

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	6078914	A	2000-06-20	Redfern, Darren M.	
	2	7302280	B2	2007-11-27	Hinckley, et al.	
	3	7324947	B2	2008-01-29	Jordan, et al.	
	4	7640160	B2	2009-12-29	Di Cristo, et al.	
	5	7818176	B2	2010-10-19	Freeman, et al.	
	6	8117268	B2	2012-02-14	Jablokov, et al.	
	7	8275618	B2	2012-09-25	Ganong, III, William F.	
	8	8296383	B2	2012-10-23	Lindahl, Aram M.	

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

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Filing Date	2018-05-14
First Named Inventor	Gautam Deora
Art Unit	2652
Examiner Name	Not Yet Assigned
Attorney Docket Number	358721-US-CNT

9	8660847	B2	2014-02-25	Soemo, et al.	
10	8731942	B2	2014-05-20	Cheyre, et al.	
11	8792627	B2	2014-07-29	Begeja, et al.	
12	9117447	B2	2015-08-25	Gruber, et al.	
13	9172795	B1	2015-10-27	Rathod, Amit Nandkishore	

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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	20030063732	A1	2003-04-03	Mcknight, Russell F.	
	2	20080091426	A1	2008-04-17	Rempel, et al.	
	3	20080107100	A1	2008-05-08	Begeja, et al.	
	4	20090313553	A1	2009-12-17	Thornton, et al.	

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

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First Named Inventor	Gautam Deora
Art Unit	2652
Examiner Name	Not Yet Assigned
Attorney Docket Number	358721-US-CNT

5	20110231773	A1	2011-09-22	Dhara, et al.
6	20120021730	A1	2012-01-26	Vendrow, Vlad
7	20130007150	A1	2013-01-03	Hertz, et al.
8	20130332536	A1	2013-12-12	Kho, et al.
9	20140241514	A1	2014-08-28	Madhavapeddi, et al.
10	20140337249	A1	2014-11-13	Bank, et al.
11	20140337751	A1	2014-11-13	Lim, et al.
12	20150128058	A1	2015-05-07	Anajwala, Sarangkumar Jagdishchandra
13	20150254675	A1	2015-09-10	Kannan, et al.
14	20160134579	A1	2016-05-12	Buddenbaum, et al.

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Application Number	15979080
Filing Date	2018-05-14
First Named Inventor	Gautam Deora
Art Unit	2652
Examiner Name	Not Yet Assigned
Attorney Docket Number	358721-US-CNT

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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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	*Final Office Action Issued in US Patent Application No. 14/988,350", Mailed Date: October 13, 2017, 14 Pages.	
	2	*Non Final Office Action Issued in US Patent Application No. 14/988,350", Mailed Date: March 10, 2017, 13 Pages.	
	3	*Non Final Office Action Issued in US Patent Application No. 14/988,350", Mailed Date: July 12, 2016, 7 Pages.	
	4	*Notice of Allowance Issued in US Patent Application No. 14/988,350", Mailed Date: February 23, 2018, 7 Pages.	
	5	*Notice of Allowance Issued in US Patent Application No. 14/988,350", Mailed Date: November 03, 2016, 8 Pages.	
	6	NAPIERSKI, JASON, "Speech Analytics: The Key to Extracting Valuable Data from Calls", Retrieved From https://web.archive.org/web/20140915172824/http://callminer.com/speech-analytics-key-extracting-valuable-data-calls/ , May 02, 2014, 2 Pages.	
	7	*International Search Report and Written Opinion Issued in PCT Application No. PCT/US2016/069055", Mailed Date: April 07, 2017, 16 Pages.	

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(Not for submission under 37 CFR 1.99)

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Filing Date	2018-05-14
First Named Inventor	Gautam Deora
Art Unit	2652
Examiner Name	Not Yet Assigned
Attorney Docket Number	358721-US-CNT

8	WOOLLASTON, VICTORIA, "The App that Lets Deaf People 'Hear' Phone Calls: Padius Converts Speech to Text in Real Time", Retrieved From http://www.dailymail.co.uk/sciencetech/article-2965063/The-app-lets-deaf-people-hear-phone-calls-Padius-converts-speech-text-real-time.html , February 23, 2015, 6 Pages.
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Examiner Signature	/Binh Kien Tieu/	Date Considered	10/22/2018
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	15979080
Filing Date	2018-05-14
First Named Inventor	Gautam Deora
Art Unit	2652
Examiner Name	Not Yet Assigned
Attorney Docket Number	358721-US-CNT

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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	/Barry D. Blount/	Date (YYYY-MM-DD)	2018-05-18
Name/Print	Barry D. Blount	Registration Number	35069

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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WEST Search History for Application 15979080

Creation Date: 2018102217:27

Prior Art Searches

Query	DB	Hits	Op.	Plur.	Thes.	Date
speech-to-text with transcript	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	424	ADJ	YES		10-12-2018
(speech-to-text with transcript) same related same (call or communication or session)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	21	ADJ	YES		10-12-2018
(speech-to-text with transcript) and cloud	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	163	ADJ	YES		10-12-2018
type with (communication or call or session)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	923458	ADJ	YES		10-12-2018
(type with (communication or call or session)) and (speech-to-text with transcript and cloud)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	118	ADJ	YES		10-12-2018
subject with (call or communication or session)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	121885	ADJ	YES		10-12-2018
(subject with (call or communication or session)) and (type with (communication or call or session) and speech-to-text with transcript and cloud)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	17	ADJ	YES		10-12-2018
20150110261	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	ADJ	YES		10-18-2018
(20150110261) and update	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1	ADJ	YES		10-18-2018

8898219	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	ADJ	YES		10-18-2018
previous with phone call	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1412	ADJ	YES		10-18-2018
(previous with phone call) and (8898219)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	ADJ	YES		10-18-2018
(output\$4 or produc\$3) with previous(data or information)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	3810	ADJ	YES		10-18-2018
((output\$4 or produc\$3) with previous(data or information)) and (previous with phone call)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	0	ADJ	YES		10-18-2018
stor\$3 same (previous with phone call)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	605	ADJ	YES		10-18-2018
type with communication	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	815163	ADJ	YES		10-18-2018
(type with communication) same (previous with phone call)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	34	ADJ	YES		10-18-2018
(type with communication same previous with phone call) and (stor\$3 same previous with phone call)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	17	ADJ	YES		10-18-2018
type with (communication or call)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	897019	ADJ	YES		10-19-2018
previous with (phone call)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	1412	ADJ	YES		10-19-2018

(previous with (phone call)) same (type with (communication or call))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	64	ADJ	YES		10-19-2018
(stor\$3 or sav\$3) with (previous with (phone call))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	111	ADJ	YES		10-19-2018
((stor\$3 or sav\$3) with previous with (phone call)) and (previous with (phone call) same type with (communication or call))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	15	ADJ	YES		10-19-2018
type with subject	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	299662	ADJ	YES		10-19-2018
(type with subject) same (previous with (phone call))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	ADJ	YES		10-19-2018
type same subject	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	706975	ADJ	YES		10-19-2018
previous (call or communication)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	14169	ADJ	YES		10-19-2018
(previous (call or communication)) same (type same subject)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	64	ADJ	YES		10-19-2018
(sav\$3 or stor\$3) same (information or data) same previous	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	284468	ADJ	YES		10-19-2018
((sav\$3 or stor\$3) same (information or data) same previous) and (previous (call or communication) same type same subject)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	40	ADJ	YES		10-19-2018
20100074421	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	3	ADJ	YES		10-19-2018

type with (call or communication)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	897019	ADJ	YES		10-19-2018
(type with (call or communication)) and (20100074421)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	ADJ	YES		10-19-2018
previous(call or communication)same document	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	292	ADJ	YES		10-19-2018
(sav\$3 or stor\$3) same (information or data) same previous	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	284468	ADJ	YES		10-19-2018
((sav\$3 or stor\$3) same (information or data) same previous) and (previous(call or communication)same document)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	165	ADJ	YES		10-19-2018
previous (document or application) same previous (phone or telephone)(call or communication)_	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	n/a	ADJ	YES		10-19-2018
previous (document or application) same previous(phone call)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	4	ADJ	YES		10-19-2018
previous (document or application) same (previous call or past (call or communication))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	2	ADJ	YES		10-19-2018
(telephone or phone)call	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	236409	ADJ	YES		10-19-2018
((telephone or phone)call) and ((sav\$3 or stor\$3) same (information or data) same previous and previous(call or communication)same document)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	82	ADJ	YES		10-19-2018



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BIB DATA SHEET

CONFIRMATION NO. 6520

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.		
15/979,080	05/14/2018	379	2656	358721-US-CNT		
RULE						
APPLICANTS Microsoft Technology Licensing, LLC, Redmond, WA; INVENTORS Gautam Deora, Hyderabad, INDIA; Vikas Verma, Hyderabad, INDIA; Saumya Chandra, Hyderabad, INDIA; Manoj Lalavat, Hyderabad, INDIA; Sonia Singh, Hyderabad, INDIA; Badhri Ravikumar, Hyderabad, INDIA; Anushree Bansal, Hyderabad, INDIA; Snehita Peddi, Hyderabad, INDIA; ** CONTINUING DATA ***** This application is a CON of 14/988,350 01/05/2016 PAT 10002607 ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 06/05/2018						
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☒ No Verified and /BINH KIEN TIEU/ Acknowledged Examiner's Signature		☐ Met after Allowance /BKT/ Initials	STATE OR COUNTRY INDIA	SHEETS DRAWINGS 8	TOTAL CLAIMS 20	INDEPENDENT CLAIMS 3
ADDRESS MICROSOFT CORPORATION ONE MICROSOFT WAY REDMOND, WA 98052 UNITED STATES OF AMERICA						
TITLE Cross Device Companion Application For Phone						
FILING FEE RECEIVED 1720	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:			☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit		



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/979,080	05/14/2018	Gautam Deora	358721-US-CNT

CONFIRMATION NO. 6520

PUBLICATION NOTICE



OC000000102295086

69316
MICROSOFT CORPORATION
ONE MICROSOFT WAY
REDMOND, WA 98052

Title:Cross Device Companion Application For Phone

Publication No.US-2018-0261208-A1

Publication Date:09/13/2018

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.

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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
15/979,080	05/14/2018	2652	1720	358721-US-CNT	20	3

CONFIRMATION NO. 6520

FILING RECEIPT

69316
MICROSOFT CORPORATION
ONE MICROSOFT WAY
REDMOND, WA 98052



Date Mailed: 06/06/2018

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

Inventor(s)

Gautam Deora, Hyderabad, INDIA;
Vikas Verma, Hyderabad, INDIA;
Saumya Chandra, Hyderabad, INDIA;
Manoj Lalavat, Hyderabad, INDIA;
Sonia Singh, Hyderabad, INDIA;
Badhri Ravikumar, Hyderabad, INDIA;
Anushree Bansal, Hyderabad, INDIA;
Snehita Peddi, Hyderabad, INDIA;

Applicant(s)

Microsoft Technology Licensing, LLC, Redmond, WA;

Assignment For Published Patent Application

Microsoft Technology Licensing, LLC, Redmond, WA

Power of Attorney: The patent practitioners associated with Customer Number 69316

Domestic Priority data as claimed by applicant

This application is a CON of 14/988,350 01/05/2016 PAT 10002607

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

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

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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

If Required, Foreign Filing License Granted: 06/05/2018

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/979,080**

Projected Publication Date: 09/13/2018

Non-Publication Request: No

Early Publication Request: No
Title

Cross Device Companion Application For Phone

Preliminary Class

379

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

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 15/979,080			
APPLICATION AS FILED - PART I									
(Column 1)		(Column 2)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY			
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)		
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	300		
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A	660		
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	760		
TOTAL CLAIMS (37 CFR 1.16(j))	20	minus 20 = *			OR	x 100 =	0.00		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3	minus 3 = *				x 460 =	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	1720		
APPLICATION AS AMENDED - PART II									
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY	
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)	
	Total (37 CFR 1.16(i))	*	Minus **	=	x =	OR	x =		
	Independent (37 CFR 1.16(h))	*	Minus ***	=	x =	OR	x =		
	Application Size Fee (37 CFR 1.16(s))					OR			
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					OR			
			TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE			
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)	
	Total (37 CFR 1.16(i))	*	Minus **	=	x =	OR	x =		
	Independent (37 CFR 1.16(h))	*	Minus ***	=	x =	OR	x =		
	Application Size Fee (37 CFR 1.16(s))					OR			
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					OR			
			TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.									

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		15979080
	Filing Date		2018-05-14
	First Named Inventor	Gautam Deora	
	Art Unit	2652	
	Examiner Name	Not Yet Assigned	
	Attorney Docket Number	358721-US-CNT	

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	6078914	A	2000-06-20	Redfern, Darren M.	
	2	7302280	B2	2007-11-27	Hinckley, et al.	
	3	7324947	B2	2008-01-29	Jordan, et al.	
	4	7640160	B2	2009-12-29	Di Cristo, et al.	
	5	7818176	B2	2010-10-19	Freeman, et al.	
	6	8117268	B2	2012-02-14	Jablokov, et al.	
	7	8275618	B2	2012-09-25	Ganong, III, William F.	
	8	8296383	B2	2012-10-23	Lindahl, Aram M.	

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

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Filing Date	2018-05-14
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Art Unit	2652
Examiner Name	Not Yet Assigned
Attorney Docket Number	358721-US-CNT

9	8660847	B2	2014-02-25	Soemo, et al.
10	8731942	B2	2014-05-20	Cheyer, et al.
11	8792627	B2	2014-07-29	Begeja, et al.
12	9117447	B2	2015-08-25	Gruber, et al.
13	9172795	B1	2015-10-27	Rathod, Amit Nandkishore

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U.S.PATENT APPLICATION PUBLICATIONS

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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	20030063732	A1	2003-04-03	Mcknight, Russell F.	
	2	20080091426	A1	2008-04-17	Rempel, et al.	
	3	20080107100	A1	2008-05-08	Begeja, et al.	
	4	20090313553	A1	2009-12-17	Thornton, et al.	

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

Application Number		15979080
Filing Date		2018-05-14
First Named Inventor	Gautam Deora	
Art Unit	2652	
Examiner Name	Not Yet Assigned	
Attorney Docket Number	358721-US-CNT	

5	20110231773	A1	2011-09-22	Dhara, et al.	
6	20120021730	A1	2012-01-26	Vendrow, Vlad	
7	20130007150	A1	2013-01-03	Hertz, et al.	
8	20130332536	A1	2013-12-12	Kho, et al.	
9	20140241514	A1	2014-08-28	Madhavapeddi, et al.	
10	20140337249	A1	2014-11-13	Bank, et al.	
11	20140337751	A1	2014-11-13	Lim, et al.	
12	20150128058	A1	2015-05-07	Anajwala, Sarangkumar Jagdishchandra	
13	20150254675	A1	2015-09-10	Kannan, et al.	
14	20160134579	A1	2016-05-12	Buddenbaum, et al.	

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

Application Number	15979080
Filing Date	2018-05-14
First Named Inventor	Gautam Deora
Art Unit	2652
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Attorney Docket Number	358721-US-CNT

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

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	*Final Office Action Issued in US Patent Application No. 14/988,350", Mailed Date: October 13, 2017, 14 Pages.	
	2	*Non Final Office Action Issued in US Patent Application No. 14/988,350", Mailed Date: March 10, 2017, 13 Pages.	
	3	*Non Final Office Action Issued in US Patent Application No. 14/988,350", Mailed Date: July 12, 2016, 7 Pages.	
	4	*Notice of Allowance Issued in US Patent Application No. 14/988,350", Mailed Date: February 23, 2018, 7 Pages.	
	5	*Notice of Allowance Issued in US Patent Application No. 14/988,350", Mailed Date: November 03, 2016, 8 Pages.	
	6	NAPIERSKI, JASON, "Speech Analytics: The Key to Extracting Valuable Data from Calls", Retrieved From https://web.archive.org/web/20140915172824/http://callminer.com/speech-analytics-key-extracting-valuable-data-calls/ , May 02, 2014, 2 Pages.	
	7	*International Search Report and Written Opinion Issued in PCT Application No. PCT/US2016/069055", Mailed Date: April 07, 2017, 16 Pages.	

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STATEMENT BY APPLICANT**
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Application Number	15979080
Filing Date	2018-05-14
First Named Inventor	Gautam Deora
Art Unit	2652
Examiner Name	Not Yet Assigned
Attorney Docket Number	358721-US-CNT

8

WOOLLASTON, VICTORIA, "The App that Lets Deaf People 'Hear' Phone Calls: Pedius Converts Speech to Text in Real Time", Retrieved From <http://www.dailymail.co.uk/sciencetech/article-2965063/The-app-lets-deaf-people-hear-phone-calls-Pedius-converts-speech-text-real-time.html>, February 23, 2015, 6 Pages.

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EXAMINER SIGNATURE

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

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

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

Application Number	15979080
Filing Date	2018-05-14
First Named Inventor	Gautam Deora
Art Unit	2652
Examiner Name	Not Yet Assigned
Attorney Docket Number	358721-US-CNT

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	/Barry D. Blount/	Date (YYYY-MM-DD)	2018-05-18
Name/Print	Barry D. Blount	Registration Number	35069

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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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:	32650222
Application Number:	15979080
International Application Number:	
Confirmation Number:	6520
Title of Invention:	Cross Device Companion Application For Phone
First Named Inventor/Applicant Name:	Gautam Deora
Customer Number:	69316
Filer:	Barry D. Blount/Helen Tinsley
Filer Authorized By:	Barry D. Blount
Attorney Docket Number:	358721-US-CNT
Receipt Date:	18-MAY-2018
Filing Date:	
Time Stamp:	13:45:54
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	358721-US-CNT-NPL1.pdf	1197659	no	14
			28d80d08996e087492d547dda6ceb4d4cd53c5b8		

Warnings:

Patent Owner Ex. 2103

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Information:					
2	Non Patent Literature	358721-US-CNT-NPL2.pdf	1077781	no	13
			f65ed492c03eea71ebc4c7f66c22a75f0bea1661		
Warnings:					
Information:					
3	Non Patent Literature	358721-US-CNT-NPL3.pdf	544771	no	7
			72c7c5ea55c26dd4382682f66847e8ffdbb4ef1d		
Warnings:					
Information:					
4	Non Patent Literature	358721-US-CNT-NPL4.pdf	2581802	no	7
			c2fc71335305841f1aa7b3e8e6ca540d7ccb65f9		
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Information:					
5	Non Patent Literature	358721-US-CNT-NPL5.pdf	883186	no	8
			19c2e5a594cd5fa90b5a916ea6212fb4ca1c2d4d		
Warnings:					
Information:					
6	Non Patent Literature	358721-US-CNT-NPL6.pdf	235763	no	2
			ccf6cee668f2e9115eb93c24f280ab639d4f8489		
Warnings:					
Information:					
7	Non Patent Literature	358721-US-CNT-NPL7.pdf	2398146	no	16
			fc92f4dd2f156081b535ea495e1c80868132a0ed		
Warnings:					
Information:					
8	Non Patent Literature	358721-US-CNT-NPL8.pdf	950595	no	6
			1caf1b0330e03fd0157517eb806ae1de8e1f9c6		
Warnings:					
Information:					

9	Transmittal Letter	358721-US-CNT_Cover_Sheet.pdf	26093 79bde53ce13bc754842204b832fb69821df11f0b	no	3
Warnings:					
Information:					
10	Information Disclosure Statement (IDS) Form (SB08)	358721-US-CNT-IDS.pdf	1126311 6eaf70a84eb4d17861c00047dc8d30a3e52ba357	no	7
Warnings:					
Information:					
Total Files Size (in bytes):			11022107		
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.					

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

To:
 Minhas, Sandip
 MICROSOFT CORPORATION
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 One Microsoft Way
 Redmond WA 98052-6399
 ETATS-UNIS D'AMERIQUE

NOTIFICATION OF TRANSMITTAL OF
 THE INTERNATIONAL SEARCH REPORT AND
 THE WRITTEN OPINION OF THE INTERNATIONAL
 SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing (day/month/year) 7 April 2017 (07-04-2017)	
Applicant's or agent's file reference 358721-PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US2016/069055	International filing date (day/month/year) 29 December 2016 (29-12-2016)
Applicant MICROSOFT TECHNOLOGY LICENSING, LLC	

1. ☒ 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 of WIPO, 34 chemin des Colombettes
 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 338.82.70

For more detailed instructions, see 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 applicant's 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 **19 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 VAN RIJSSEL, Debbie Tel: +31 (0)70 340-4719
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PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 358721-PCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2016/069055	International filing date (<i>day/month/year</i>) 29 December 2016 (29-12-2016)	(Earliest) Priority Date (<i>day/month/year</i>) 5 January 2016 (05-01-2016)
Applicant MICROSOFT TECHNOLOGY LICENSING, LLC		

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.

☒ 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:

- ☒ 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**,

- ☒ 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**,

- ☒ 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. 1

- ☒ 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

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2016/069055

A. CLASSIFICATION OF SUBJECT MATTER

INV. H04M1/57	H04M3/42	H04M1/725	H04M1/247	H04M1/64
H04M1/656	H04M1/658	H04M1/82	H04M3/436	G06F3/00
G06F17/20	G10L15/00	G10L15/22	G10L15/26	G06F3/0484

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)

H04M

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 2011/231773 A1 (DHARA KRISHNA KISHORE [US] ET AL) 22 September 2011 (2011-09-22) abstract figures 4-7 paragraph [0032] - paragraph [0043]	1-10
A	US 2014/337751 A1 (LIM MELISSA [US] ET AL) 13 November 2014 (2014-11-13) abstract paragraph [0027] - paragraph [0030] paragraph [0052] - paragraph [0054]	1,10
A	US 2003/063732 A1 (MCKNIGHT RUSSELL F [US]) 3 April 2003 (2003-04-03) abstract figure 2 paragraph [0009]	1,10
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Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

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

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

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

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

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

"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

31 March 2017

Date of mailing of the international search report

07/04/2017

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040
Fax: (+31-70) 340-3016

Authorized officer

Papadakis, Georgios

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2016/069055

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2015/128058 A1 (ANAJWALA SARANGKUMAR JAGDISHCHANDRA [IN]) 7 May 2015 (2015-05-07) abstract paragraph [0004] - paragraph [0019] -----	1-10
A	US 9 172 795 B1 (RATHOD AMIT NANDKISHORE [IN]) 27 October 2015 (2015-10-27) the whole document -----	1-10
A	US 2013/332536 A1 (KHO NANCY ELLEN [US] ET AL) 12 December 2013 (2013-12-12) abstract figures 3, 4, 6 paragraph [0036] - paragraph [0048] paragraph [0050] -----	1-10

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2016/069055

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2011231773 A1	22-09-2011	CN 102193972 A	21-09-2011
		DE 102011014130 A1	27-10-2011
		DE 102011014232 A1	10-11-2011
		GB 2479046 A	28-09-2011
		US 2011228922 A1	22-09-2011
		US 2011231396 A1	22-09-2011
		US 2011231409 A1	22-09-2011
		US 2011231773 A1	22-09-2011
		US 2013304924 A1	14-11-2013
		US 2016005005 A1	07-01-2016
US 2014337751 A1	13-11-2014	CN 105229565 A	06-01-2016
		EP 2997441 A2	23-03-2016
		US 2014337751 A1	13-11-2014
		WO 2014186303 A2	20-11-2014
US 2003063732 A1	03-04-2003	EP 1298895 A2	02-04-2003
		JP 2003152859 A	23-05-2003
		US 2003063732 A1	03-04-2003
US 2015128058 A1	07-05-2015	NONE	
US 9172795 B1	27-10-2015	US 9172795 B1	27-10-2015
		WO 2016022737 A1	11-02-2016
US 2013332536 A1	12-12-2013	US 2013329876 A1	12-12-2013
		US 2013332536 A1	12-12-2013

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/US2016/069055

TITLE: CROSS DEVICE COMPANION APPLICATION FOR PHONE

APPLICANT: MICROSOFT TECHNOLOGY LICENSING, LLC

IPC CLASSIFICATION: H04M1/57, H04M3/42, H04M1/725, H04M1/247, H04M1/64, H04M1/656, H04M1/658, H04M1/82, H04M3/436, G06F3/00, G06F17/20, G10L15/00, G10L15/22, G10L15/26, G06F3/0484, H04L29/12, H04L29/08, H04W8/26

EXAMINER: Papadakis, Georgios

CONSULTED DATABASES: WPI, EPODOC, ANSERA

CLASSIFICATION SYMBOLS DEFINING EXTENT OF THE SEARCH:

IPC:

CPC: H04M1/575, H04M1/72583/LOW, H04M1/72597/LOW

FI/F-TERMS:

KEYWORDS OR OTHER ELEMENTS FEATURING THE INVENTION:

call context
call transcript
speech recognition
machine learning
call relevant documents
call relevant application

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

see form PCT/ISA/220

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.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.
PCT/US2016/069055

International filing date (day/month/year)
29.12.2016

Priority date (day/month/year)
05.01.2016

International Patent Classification (IPC) or both national classification and IPC
INV. H04M1/57 H04M3/42 H04M1/725 H04M1/247 H04M1/64 H04M1/656 H04M1/658 H04M1/82 H04M3/436
G06F3/00 G06F17/20 G10L15/00 G10L15/22 G10L15/26 G06F3/0484 H04L29/12 H04L29/08 H04W8/26

Applicant
MICROSOFT TECHNOLOGY LICENSING, LLC

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 43bis.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 notified the International Bureau under Rule 66.1bis(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:



European Patent Office
P.B. 5818 Patentlaan 2
NL-2280 HV Rijswijk - Pays Bas
Tel. +31 70 340 - 2040
Fax: +31 70 340 - 3016

Date of completion of
this opinion

see form
PCT/ISA/210

Authorized Officer

Papadakis, Georgios

Telephone No. +31 70 340-0



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:
 - ☐ in the form of an Annex C/ST.25 text file.
 - ☐ on paper or in the form of an image file.
 - b. ☐ furnished together with the international application under PCT Rule 13*ter*.1(a) for the purposes of international search only in the form of an Annex C/ST.25 text file.
 - c. ☐ furnished subsequent to the international filing date for the purposes of international search only:
 - ☐ in the form of an Annex C/ST.25 text file (Rule 13*ter*.1(a)).
 - ☐ on paper or in the form of an image file (Rule 13*ter*.1(b) and Administrative Instructions, Section 713).
4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that forming part of the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additional comments:

Box No. V Reasoned statement under Rule 43b/s.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	<u>1-10</u>
	No: Claims	
Inventive step (IS)	Yes: Claims	
	No: Claims	<u>1-10</u>
Industrial applicability (IA)	Yes: Claims	<u>1-10</u>
	No: Claims	

2. Citations and explanations

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

1 **Re Item V**

Reference is made to the following documents:

- D1 US 2011/231773 A1 (DHARA KRISHNA KISHORE [US] ET AL) 22 September 2011 (2011-09-22)
- D2 US 2014/337751 A1 (LIM MELISSA [US] ET AL) 13 November 2014 (2014-11-13)
- D3 US 2003/063732 A1 (MCKNIGHT RUSSELL F [US]) 3 April 2003 (2003-04-03)
- D4 US 2015/128058 A1 (ANAJWALA SARANGKUMAR JAGDISHCHANDRA [IN]) 7 May 2015 (2015-05-07)

1.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1, 10 does not involve an inventive step in the sense of Article 33(3) PCT.

1.1.1 Claim 1: D1 discloses a computerized method, comprising:

- receiving, from a process running on a phone that initiates a phone call, an identifier of a caller that initiated the phone call (fig. 6: step 602);
- receiving first data that describes an intention associated with the phone call (see feature below);
- receiving second data that describes an action associated with the phone call (see feature below);
- presenting third data that describes the caller, where the third data is based, at least in part, on the identifier (fig 6 step 602: context of phone call; §[0027]: *"However, the example below is described in the just-in-time context of an incoming communication. Just-in-time context can be determined based on one or more of a caller, a recipient, a time of day, a scheduled event, a previous communication, document contents, address books, location, and so forth. In one illustrative example, a caller makes a telephone call to a recipient. The recipient's telephone or other communication device identifies the caller and examines the recipient's previous interactions with the caller"*);
- selecting a computer application that is relevant to the phone call based, at

least in part, on the first data and the second data (fig 6: step 604 and 606: identifying and retrieving on resource based on the context: §[0045]: "resources can include a document, an agenda, a web page", each one of the disclosed presented implies a corresponding application);

- presenting the computer application on one or more devices available to a recipient of the phone call (fig 6: step 608, presenting the resource);

- selecting a piece of electronic content relevant to the phone call based, at least in part, on the first data and second data (fig 6: step 604 and 606: identifying and retrieving on resource based on the context: §[0045]: "resources can include a document, an agenda, a web page");

- presenting the electronic content to the recipient using one or more members of the one or more devices (fig 6: step 608, presenting the resource);

- ~~• selectively producing fourth data that describes an action to be performed after the phone call is terminated;~~

- ~~• selectively presenting the fourth data; and~~

- ~~• selectively storing the fourth data.~~

The subject-matter of claim 1, differs from D1 in that according to claim 1 the method is *selectively producing fourth data that describes an action to be performed after the phone call is terminated, where the fourth data describes a purchase, a payment, an appointment to be made, an appointment to keep, a communication to make, a document to edit, or a presentation to edit, where the communication to make is a phone call, an email, a text, or a social media post; selectively presenting the fourth data; selectively storing the fourth data;*

The objective technical problem to be solved may be regarded as how to *provide automated secretariat services to the callee.*

However, such a solution proposed by claim 1 to the above posed problem is common in the art (see e.g. D2: §§[0028], [0029], [0054]; D3: §[0009]). Since D1 is also concerned about providing similar automated services to the callee, the incorporation of this well-known feature would be straightforward to the skilled person.

Therefore, the subject-matter of claim 1 is not considered inventive within the meaning of Article 33(3) PCT.

- 1.1.2 Claim 10: D1 discloses a computer-readable storage device storing computer-executable instructions that when executed by a computer control the computer to perform a method, the method comprising:
- receiving, from a process running on a phone that initiates a phone call, an identifier of a caller that initiated the phone call (fig. 6: step 602), ~~where the identifier of the caller includes a device identifier of the phone that initiates the phone call, a location of the phone that initiates the phone call, an email address of the caller, and a social media identifier of the caller;~~
 - receiving a ~~text-based~~ transcript of the phone call, where the text-based transcript is produced by a natural language processing (NLP) service ~~operating in the cloud;~~
 - receiving first data that describes an intention associated with the phone call, ~~where the first data describes whether the phone call is a social communication, a work communication, a travel communication, an informational communication, a family communication, an emergency communication, or a commercial communication,~~ where the first data is selected from the text-based transcript (see feature below);
 - receiving second data that describes an action associated with the phone call, where the second data describes whether the phone call concerns a purchase, a payment, an appointment to be made, an appointment to keep, a communication to make, an edit to a document, or an edit to a presentation, where the second data is selected from the text-based transcript (fig 6 step 602 or fig 7 step 702 (the embodiments are linked see §[0041]): context of phone call; §[0027]: "However, the example below is described in the just-in-time context of an incoming communication. Just-in-time context can be determined based on one or more of a caller, a recipient, a time of day, a scheduled event, a previous communication, document contents, address books, location, and so forth. In one illustrative example, a caller makes a telephone call to a recipient. The recipient's telephone or other communication device identifies the caller and examines the recipient's previous interactions with the caller"; §[0042]: speech recognition is used to create and update the

communication context that is used in the future conversations, see also last feature below);

- presenting third data that describes the caller, where the third data is based, at least in part, on the identifier, where the third data describes a call participated in by the caller, an email accessed by the caller, a text accessed by the caller, a social media item accessed by the caller, a search performed by the caller, a document accessed by the caller, or a presentation accessed by the caller (see fig. 4);

- selecting a computer application that is relevant to the phone call based, at least in part, on the first data and the second data, where the computer application relevant to the phone call is an email application, a word processing application, a presentation processing application, a search application, a social media application, a calendar application, or a payment application (fig 6: step 604 and 606: identifying and retrieving on resource based on the context: *§[0045]: "resources can include a document, an agenda, a web page"*, each one of the disclosed presented implies a corresponding application);

- presenting the computer application on one or more devices available to a recipient of the phone call, where the one or more devices include a tablet computer of the recipient, a laptop computer of the recipient, a desktop computer of the recipient, or a vehicle-based computer of the recipient (fig 6: step 608, presenting the resource; *§[0032]: presenting data on tablet or desktop computer*), where a member of the one or more devices is selected to present the electronic content or to run the computer application ~~based, at least in part, on a workload on the member, on a proximity of the member to the recipient of the phone call, on the type of electronic content, or on the type of computer application;~~

- selecting a piece of electronic content relevant to the phone call based, at least in part, on the first data and second data, where the piece of content relevant to the phone call is a document, a presentation, an email, a social media post, a calendar entry, an invoice, or a receipt (fig 6: step 604 and 606: identifying and retrieving on resource based on the context: *§[0045]: "resources can include a document, an agenda, a web page"*);

- presenting the electronic content to the recipient using one or more members of the one or more devices (fig 6: step 608, presenting

the resource);

~~• selectively producing fourth data that describes an action to be performed after the phone call is terminated, where the fourth data describes a purchase, a payment, an appointment to be made, an appointment to keep, a communication to make, a document to edit, or a presentation to edit, where the communication to make is a phone call, an email, a text, or a social media post;~~

~~• selectively presenting the fourth data;~~

~~• selectively storing the fourth data;~~

• producing and storing tracking data that describes the intention associated with the phone call, the action associated with the phone call, an application used during the phone call, a content referenced during the phone call, a search performed during the phone call, or a note taken during the phone call (fig 7, :steps 704-706, see also feature below), and

• presenting the tracking data to a machine learning process that adapts how the NLP service will select data that describes an intention and will select data that describes an action for the caller in a subsequent phone call (fig §§[0039], [0042]: the system learns and adapts in order to select a future context, based on resources associated with the phonecall gathered also using speech processing. See also §§[0027], [0028], [0032]).

The subject-matter of claim 10 differs from D1 in that according to claim 1:

(i) The identifier of the caller includes *a device identifier of the phone that initiates the phone call, a location of the phone that initiates the phone call, an email address of the caller, and a social media identifier of the caller*, which may be regarded to solve the objective technical problem of *selecting the types of data to identify the caller to the callee*.

(ii) The call transcript *is saved in text based format*, which may be regarded to solve the objective technical problem of *selecting the data type to save the collected call resources (transcript data)*.

(iii) The Natural Language Processing Service *is located in the cloud*, which may be regarded to solve the objective technical problem of *selecting where to implement the aforementioned service*.

(iv) The first data describes whether the phone call *is a social communication, a work communication, a travel communication, an informational communication, a family communication, an emergency communication, or a commercial communication* which relates to non technical considerations regarding the call context.

(v) The member of the one or more devices which is selected to present the electronic content or to run the computer application *is based, at least in part, on a workload on the member, on a proximity of the member to the recipient of the phone call, on the type of electronic content, or on the type of computer application*, which may be regarded to solve the objective technical problem of *selecting the device to present the aforementioned application to the callee*.

(vi) *Selectively producing fourth data that describes an action to be performed after the phone call is terminated, where the fourth data describes a purchase, a payment, an appointment to be made, an appointment to keep, a communication to make, a document to edit, or a presentation to edit, where the communication to make is a phone call, an email, a text, or a social media post; selectively presenting the fourth data; selectively storing the fourth data;* which may be regarded to solve the objective technical problem of *providing automated secretariat services to the callee*.

No synergistic technical effect arises from any combination of the above differences (i)-(vi), which are considered as a mere juxtaposition of features. Therefore, they are treated independently for assessing inventive step.

Re feature (i): The above mentioned data types are commonly used telephone contact data types, the use of them as caller identifiers does not involve an inventive step.

Re feature (ii): A text based format (e.g. xml, see also D4: §[0035]) is very common in storing call logs, and does not involve an inventive step.

Re feature (iii): It is common to have a remote data processing service located in the cloud. D1 (see fig. 5) already discloses the communication context server being in the cloud, also hinting in the solution proposed by claim 10.

Re feature (iv): The claimed non technical features do not contribute to a solution of a technical problem and therefore neither to the presence of an inventive step.

Re feature (v): D1 already discloses that the content and the application may be presented in to any of a plurality of different devices. The proposed criteria in order to select the device, are considered obvious logical design choices for the skilled person that do not involve an inventive step.

Re feature (vi): Same arguments as for difference in §1.1.1 above apply, mutatis mutandis.

Since, according to the above analysis, none of the differences (i)-(vi) is considered to provide an inventive contribution over D1, the subject-matter of claim 1 is therefore not considered inventive within the meaning of Article 33(3) PCT.

- 1.2 Dependent claims 2-9 do not appear to contain any additional features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step (Article 33(3) PCT), the reasons being as follows:
 - 1.2.1 Claims 2-9: All the claimed features have already been discussed with respect to claim 10, see §1.1.2 above.

2 Re Item VII

Furthermore, the following deficiencies are mentioned:

- 2.1 Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in D1, D4-D6 is not mentioned in the description, nor are these documents identified therein.
- 2.2 Independent claims 1, 10 are not in the two-part form in accordance with Rule 6.3(b) PCT, with those features known in combination from the prior art being placed in the preamble (Rule 6.3(b)(i) PCT) and the remaining features being included in the characterising part (Rule 6.3(b)(ii) PCT).
- 2.3 The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor:	Gautam Deora	Attorney Docket No.:	358721-US-CNT
Application No.:	15/979,080	Group Art Unit:	Not Yet Assigned
Filed:	May 14, 2018	Confirmation Number:	6520
Customer No.:	69316	Examiner:	Not Yet Assigned

TITLE: Cross Device Companion Application For Phone

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

**STATEMENT FILED PURSUANT TO
THE DUTY OF DISCLOSURE UNDER 37 C.F.R. §§ 1.56, 1.97 AND 1.98**

Commissioner:

Pursuant to the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, the
Applicant requests consideration of this Information Disclosure Statement.

PART I: Compliance with 37 C.F.R. § 1.97

This Information Disclosure Statement is being filed before the issuance of Non-Final office action.

No fee or certification is required.

PART II: Additional Information

The Applicant hereby makes the following additional information of record in the above-identified application.

<u>Serial No.</u>	<u>Filing Date</u>	<u>Inventor(s)</u>
N/A	N/A	N/A

PART III: Remarks

The Applicant hereby makes of record in the above-identified application the information listed on the attached form PTO/SB/08A. The order of presentation of the references should not be construed as an indication of the importance of the references. Documents cited on the attached form PTO/SB/08A are enclosed unless otherwise indicated. It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO/SB/08A be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;
3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicant makes no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. § 102.

Notwithstanding any statement by the Applicant, the Applicant urges the Examiner to form his or her own conclusion regarding the relevance of the cited information. An early and favorable action is hereby requested.

Respectfully submitted,

Date May 18, 2018

By /Barry D. Blount/
Barry D. Blount
Reg. No. 35,069

Microsoft Corporation
One Microsoft Way
Redmond WA 98052-6399
Direct telephone (425) 707-9382

CERTIFICATE OF MAILING OR TRANSMISSION
(Under 37 CFR § 1.8(a)) or ELECTRONIC FILING

I hereby certify that this correspondence is being electronically deposited with the USPTO via EFS-Web on the date shown below:

May 18, 2018
Date

/Helen Tinsley/
Signature

Helen Tinsley
Printed Name

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/AIA/82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	
Filing Date	
First Named Inventor	Gautam Deora
Title	Cross Device Companion Application For Phone
Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	358721-US-CNT

SIGNATURE of Applicant or Patent Practitioner

Signature	/Barry D. Blount/	Date (Optional)	May 14, 2018
Name	Barry D. Blount	Registration Number	35,069
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

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



*Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

POWER OF ATTORNEY BY APPLICANT

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

Application Number

Filing Date

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



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

69316

OR



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

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



The address associated with the above-mentioned Customer Number

OR



The address associated with Customer Number:

69316

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):

Microsoft Technology Licensing, LLC



Inventor or Joint Inventor (title not required below)



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



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



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

SIGNATURE of Applicant for Patent

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

Signature

Date (Optional)

Name

Benjamin C. Landorf

Title

Secretary

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 forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEE 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 this 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.

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	358721-US-CNT
		Application Number	
Title of Invention	Cross Device Companion Application For Phone		
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		
	Gautam		Deora			
Residence Information (Select One) US Residency ☒ Non US Residency Active US Military Service						
City	Hyderabad	Country of Residence ⁱ		N		
Mailing Address of Inventor:						
Address 1		c/o Microsoft Corporation				
Address 2		One Microsoft Way				
City	Redmond	State/Province	WA			
Postal Code	98052	Country ⁱ	US			
Inventor	2				Remove	
Legal Name						
Prefix	Given Name	Middle Name	Family Name	Suffix		
	Vikas		Verma			
Residence Information (Select One) US Residency ☒ Non US Residency Active US Military Service						
City	Hyderabad	Country of Residence ⁱ		N		
Mailing Address of Inventor:						
Address 1		c/o Microsoft Corporation				
Address 2		One Microsoft Way				
City	Redmond	State/Province	WA			
Postal Code	98052	Country ⁱ	US			
Inventor	3				Remove	
Legal Name						

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	358721-US-CNT
		Application Number	
Title of Invention	Cross Device Companion Application For Phone		

Prefix	Given Name	Middle Name	Family Name	Suffix
	Saumya		Chandra	
Residence Information (Select One) US Residency ☒ Non US Residency Active US Military Service				
City	Hyderabad	Country of Residence ⁱ	N	

Mailing Address of Inventor:

Address 1	c/o Microsoft Corporation			
Address 2	One Microsoft Way			
City	Redmond	State/Province	WA	
Postal Code	98052	Country ⁱ	US	
Inventor	4	Remove		
Legal Name				

Prefix	Given Name	Middle Name	Family Name	Suffix
	Manoj		Lalavat	
Residence Information (Select One) US Residency ☒ Non US Residency Active US Military Service				
City	Hyderabad	Country of Residence ⁱ	N	

Mailing Address of Inventor:

Address 1	c/o Microsoft Corporation			
Address 2	One Microsoft Way			
City	Redmond	State/Province	WA	
Postal Code	98052	Country ⁱ	US	
Inventor	5	Remove		
Legal Name				

Prefix	Given Name	Middle Name	Family Name	Suffix
	Sonia		Singh	
Residence Information (Select One) US Residency ☒ Non US Residency Active US Military Service				
City	Hyderabad	Country of Residence ⁱ	N	

Mailing Address of Inventor:

Address 1	c/o Microsoft Corporation			
Address 2	One Microsoft Way			
City	Redmond	State/Province	WA	
Postal Code	98052	Country ⁱ	US	

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	358721-US-CNT
		Application Number	
Title of Invention	Cross Device Companion Application For Phone		

Inventor	6				Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Badhri		Ravikumar		
Residence Information (Select One) US Residency ☒ Non US Residency Active US Military Service					
City	Hyderabad	Country of Residence ⁱ		N	

Mailing Address of Inventor:

Address 1	c/o Microsoft Corporation				
Address 2	One Microsoft Way				
City	Redmond	State/Province	WA		
Postal Code	98052	Country ⁱ	US		

Inventor	7				Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Anushree		Bansal		
Residence Information (Select One) US Residency ☒ Non US Residency Active US Military Service					
City	Hyderabad	Country of Residence ⁱ		N	

Mailing Address of Inventor:

Address 1	c/o Microsoft Corporation				
Address 2	One Microsoft Way				
City	Redmond	State/Province	WA		
Postal Code	98052	Country ⁱ	US		

Inventor	8				Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Snehta		Peddi		
Residence Information (Select One) US Residency ☒ Non US Residency Active US Military Service					
City	Hyderabad	Country of Residence ⁱ		N	

Mailing Address of Inventor:

Address 1	c/o Microsoft Corporation				
Address 2	One Microsoft Way				

Patent Owner Ex. 2103

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	358721-US-CNT	
		Application Number		
Title of Invention	Cross Device Companion Application For Phone			
City	Redmond	State/Province	WA	
Postal Code	98052	Country	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	69316		
Email Address		Add Email	Remove Email

Application Information:

Title of the Invention	Cross Device Companion Application For Phone		
Attorney Docket Number	358721-US-CNT	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	8	Suggested Figure for Publication (if any)	1

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:

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	358721-US-CNT
		Application Number	
Title of Invention	Cross Device Companion Application For Phone		
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	69316		

Domestic Benefit/National Stage Information:

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

Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	14988350	2016-01-05
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			Add

Foreign Priority Information:

This section allows for the applicant to claim 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).

Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ⁱ (if applicable)	Remove
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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	358721-US-CNT
		Application Number	
Title of Invention	Cross Device Companion Application For Phone		

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	358721-US-CNT
	Application Number	
Title of Invention	Cross Device Companion Application For Phone	

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	358721-US-CNT
		Application Number	
Title of Invention	Cross Device Companion Application For Phone		

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	Microsoft Technology Licensing, LLC	
Mailing Address Information For Applicant:		
Address 1	One Microsoft Way	
Address 2		
City	Redmond	State/Province WA
Country	US	Postal Code 98052
Phone Number		Fax Number
Email Address		
Additional Applicant Data may be generated within this form by selecting the Add button. Add		

Assignee Information including Non-Applicant Assignee Information:

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	358721-US-CNT
		Application Number	
Title of Invention	Cross Device Companion Application For Phone		

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. ☒			
Organization Name	Microsoft Technology Licensing, LLC		
Mailing Address Information For Assignee including Non-Applicant Assignee:			
Address 1	One Microsoft Way		
Address 2			
City	Redmond	State/Province	WA
Country ⁱ	US	Postal Code	98052
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	/Barry D. Blount/		Date (YYYY-MM-DD)	2018-05-14
First Name	Barry D.	Last Name	Blount	Registration Number
				35,069
Additional Signature may be generated within this form by selecting the Add button. Add				

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	358721-US-CNT
		Application Number	
Title of Invention	Cross Device Companion Application For Phone		

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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.

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

Title of
Invention Cross Device Companion Application For Phone
MS# 358721.01

As the below named inventor, I hereby declare that:

This declaration is directed to: ☒ The attached application, or
☐ United States application or PCT international application number _____
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.

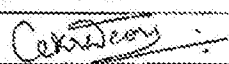
WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2036 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2036 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Gautam Deora

Date (Optional): 12/29/2015

Signature: 

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

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1460, Alexandria, VA 22313-1460.

If you need assistance in completing the form, call 1-800-PTO-2199 and select option 2.

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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	Cross Device Companion Application For Phone MS# 358721.01		
As the below named inventor, I hereby declare that: This declaration is directed to: ☒ The attached application, or ☐ United States application or PCT international application number _____ 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. WARNING: Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.			
LEGAL NAME OF INVENTOR			
Inventor: <u>Vikas Verma</u>		Date (Optional): <u>29 Dec 2015</u>	
Signature: <u><i>Vikas</i></u>			
Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.			

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

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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 **Cross Device Companion Application For Phone MS# 358721.01**

As the below named inventor, I hereby declare that:

This declaration is directed to:



The attached application, or



United States application or PCT international application number _____ 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.

WARNING:

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

LEGAL NAME OF INVENTOR

Inventor **Saumya Chandra**

Date (Optional) **29th Dec 2015**

Signature

Saumya Chandra

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

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to be used by the USPTO to process an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

Title of Invention	Cross Device Companion Application For Phone MS# 358721.01		
As the below named inventor, I hereby declare that:			
This declaration is directed to:	☒	The attached application, or	
	☐	United States application or PCT international application number _____ 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:	Manoj Lalavat		Date (Optional): 5/09/2016
Signature:			

Note: An application data sheet (PTO/GB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/D1 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1480, Alexandria, VA 22313-1480. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1480, Alexandria, VA 22313-1480.**

If you need assistance in completing the form, call 1-800-PTO-6196 and select option 2.

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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	Cross Device Companion Application For Phone MS# 358721.01
--------------------	---

As the below named inventor, I hereby declare that:

This declaration is directed to: ☒ The attached application, or
☐ United States application or PCT international application number _____
 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: Sonia Singh Date (Optional): 12/29/2010
 Signature: Sonia Singh

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

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

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

Title of
Invention

Cross Device Companion Application For Phone
MS# 358721.01

As the below named inventor, I hereby declare that:

This declaration
is directed to:



The attached application, or



United States application or PCT international application number _____
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: Badhri Ravikumar

Date (Optional): 12/29/2015

Signature: [Signature]

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

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-2199 and select option 3.

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

Title of Invention	Cross Device Companion Application For Phone MS# 358721.01
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As the below named inventor, I hereby declare that:

This declaration is directed to: ☒ The attached application, or
☐ United States application or PCT international application number _____
 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: Anushree Bansal Date (Optional): 30/12/2015
 Signature: *Anushree Bansal*

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

This collection of information is required by 35 U.S.C. 119 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-8199 and select option 2.

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

Title of Invention	Cross Device Companion Application For Phone MS# 358721.01
As the below named inventor, I hereby declare that: This declaration is directed to: ☒ The attached application, or ☐ United States application or PCT international application number _____ 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. WARNING: Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.	
LEGAL NAME OF INVENTOR Inventor: <u>Snehita Peddi</u> Date (Optional): <u>12/29/2015</u> Signature: <u><i>Snehita</i></u>	
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.	

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

1/8

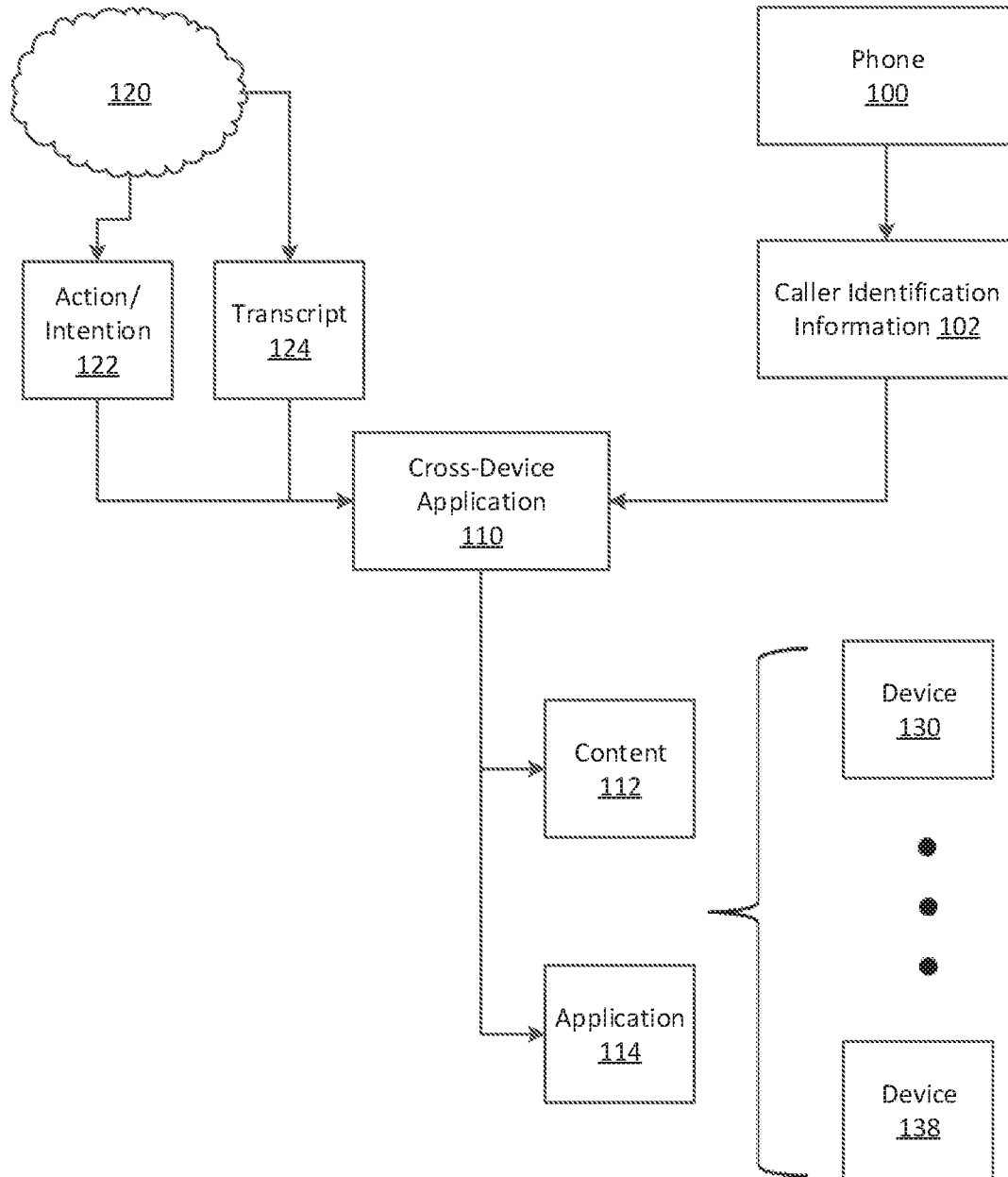


FIG. 1

2/8

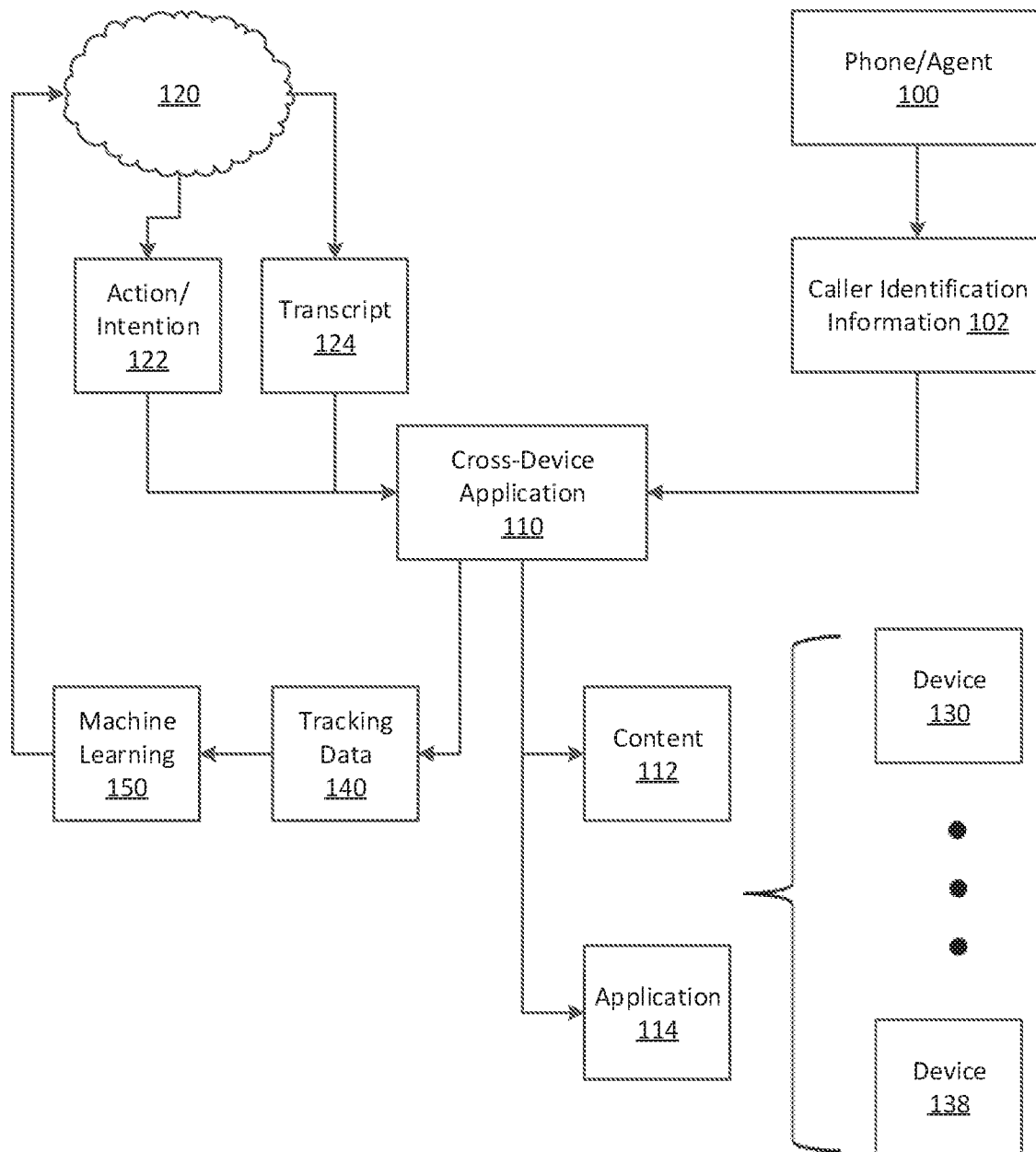


FIG. 2

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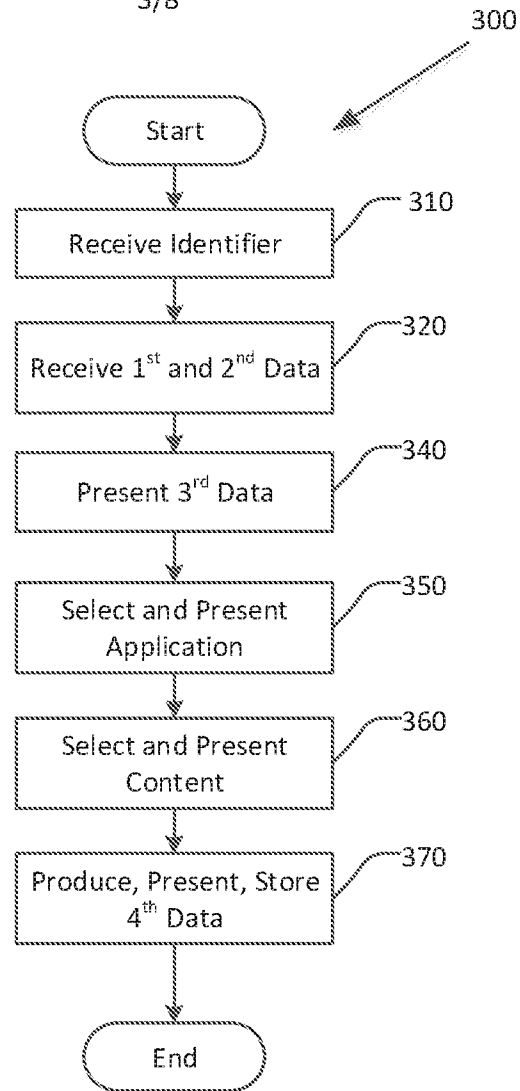


FIG. 3

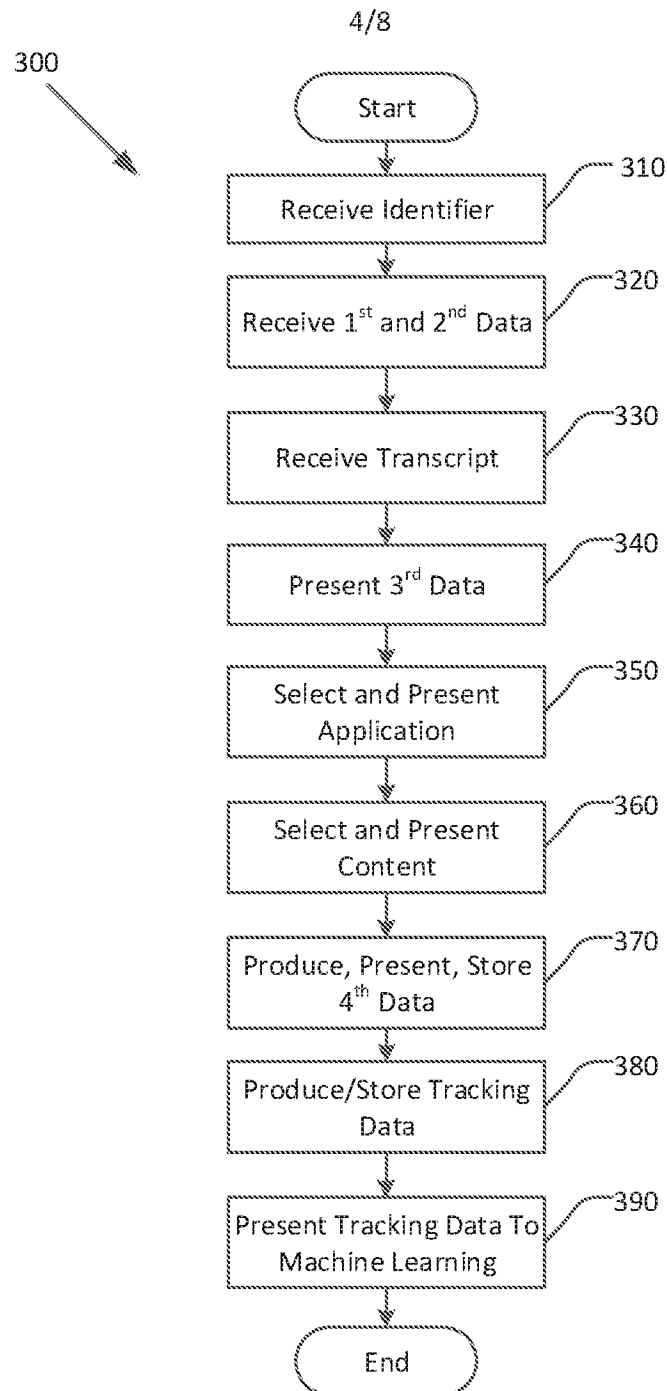


FIG. 4

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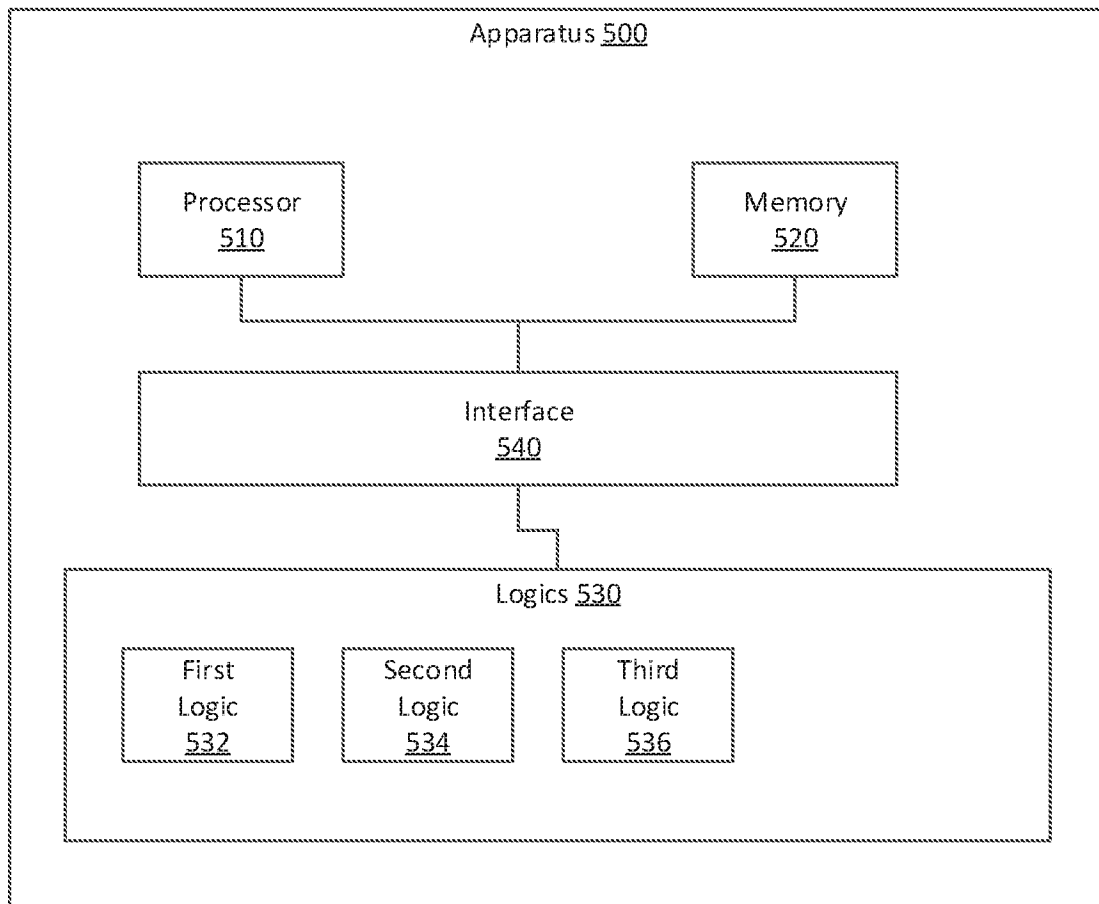


FIG. 5

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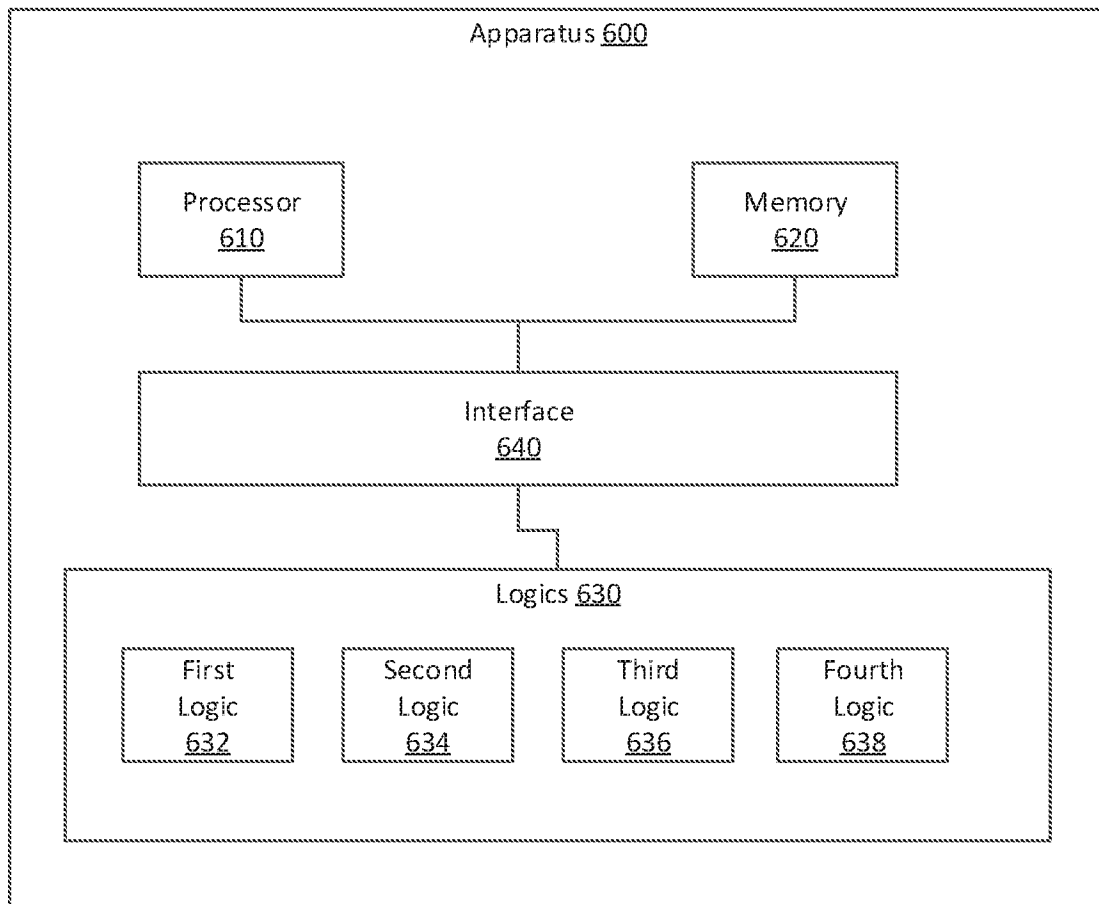


FIG. 6

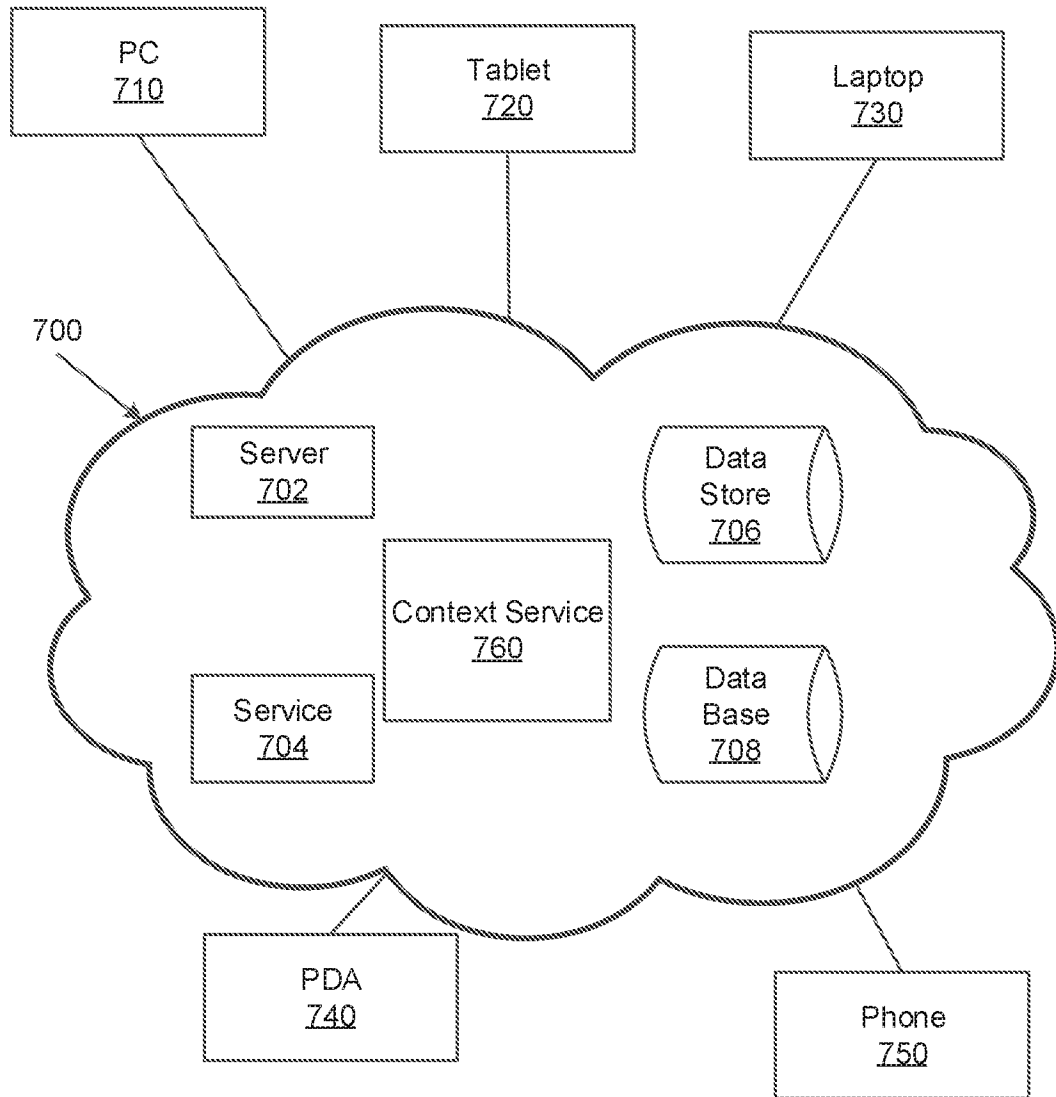


FIG. 7

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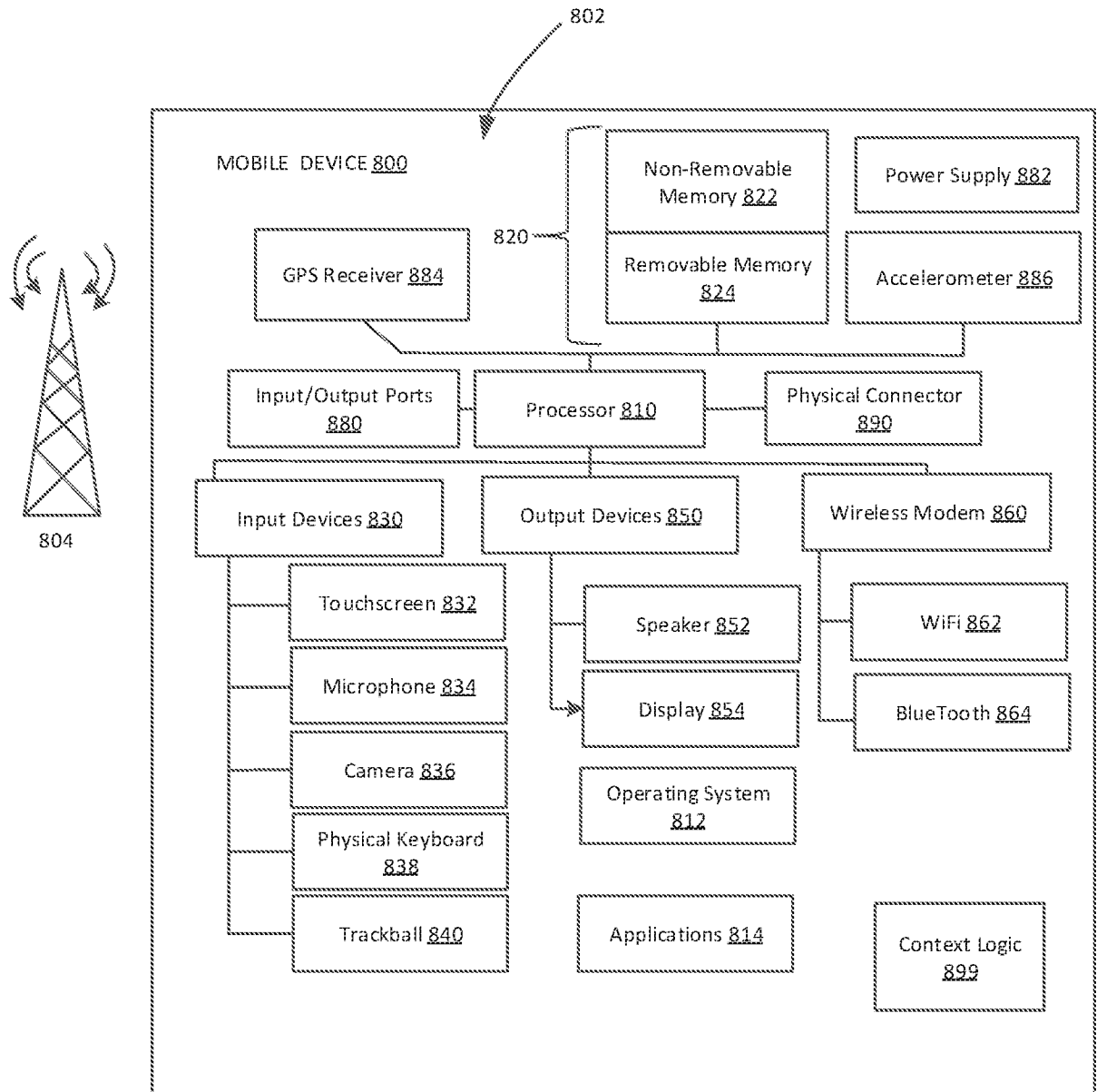


FIG. 8

Electronic Patent Application Fee Transmittal

Application Number:				
Filing Date:				
Title of Invention:	CROSS DEVICE COMPANION APPLICATION FOR PHONE			
First Named Inventor/Applicant Name:	Gautam DEORA			
Filer:	Barry D. Blount/Helen Tinsley			
Attorney Docket Number:	358721-US-CNT			
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	300	300
UTILITY SEARCH FEE	1111	1	660	660
UTILITY EXAMINATION FEE	1311	1	760	760
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 (\$)				1720

Electronic Acknowledgement Receipt

EFS ID:	32615226
Application Number:	15979080
International Application Number:	
Confirmation Number:	6520
Title of Invention:	CROSS DEVICE COMPANION APPLICATION FOR PHONE
First Named Inventor/Applicant Name:	Gautam DEORA
Customer Number:	69316
Filer:	Barry D. Blount/Helen Tinsley
Filer Authorized By:	Barry D. Blount
Attorney Docket Number:	358721-US-CNT
Receipt Date:	14-MAY-2018
Filing Date:	
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Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 1720
RAM confirmation Number	051518INTEFSW17475100
Deposit Account	
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The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		358721-US-CNT- Patent_Application.pdf	173048	yes	28
			8f1186825edd4db090c96c6df310332ea1482837		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	26	
	Claims		27	27	
	Abstract		28	28	
Warnings:					
Information:					
2		358721-US-CNT- Preliminary_Amendment-cpdf. pdf	29165	yes	6
			181b7153e4573b1677d028cda2c605aeaced3cff		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Preliminary Amendment		1	1	
	Claims		2	5	
	Applicant Arguments/Remarks Made in an Amendment		6	6	
Warnings:					
Information:					
3	Power of Attorney	358721-US-CNT_POA_CPDF. pdf	273605	no	3
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Warnings:					
Information:					

4	Application Data Sheet	358721-US-CNT-ADS.pdf	1823171	no	11
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Warnings:					
Information:					
5	Oath or Declaration filed	358721-US-CNT-Declarations_signed.pdf	1547614	no	8
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Warnings:					
Information:					
6	Drawings-only black and white line drawings	358721-US-CNT-Drawings-cpdf.pdf	118351	no	8
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7	Fee Worksheet (SB06)	fee-info.pdf	34869	no	2
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Warnings:					
Information:					
Total Files Size (in bytes):			3999823		
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CROSS DEVICE COMPANION APPLICATION FOR PHONE

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of United States Patent Application Serial No. 14/988,350, filed January 5, 2016, and entitled “CROSS DEVICE COMPANION APPLICATION FOR PHONE,” the application of which is incorporated herein in its entirety by reference.

BACKGROUND

[0002] Before caller-id, someone receiving a phone call had no idea who was calling. After caller-id, the recipient might have known who was calling, but wouldn't have known why. Even if the recipient knew who was calling and why, the recipient still might have had to take several actions to find documents and applications that were relevant to the phone call. Thus, phone calls were often seen as intrusions and may have been ignored rather than answered because the recipient had neither the time nor inclination to experience a context shift.

[0003] Conventionally, information stored on the receiving phone or elsewhere (e.g., telecommunications server, cloud, application) may have facilitated partially setting the context for a phone call. For example, when a call was received for which a calling number was available, the familiar caller-id feature may have been employed. In another example, when a call was received from a number for which identifying information had been stored, then that identifying information (e.g., name, photo, business) may have been displayed. The identifying information may have helped the user decide whether to answer the phone. Additionally, the identifying information may have helped the user switch between mental tasks. For example a user may have switched from thinking about a business matter to thinking about a family matter. The identifying information may also have helped the parties to the call save time since they may not have needed to identify each other. For example, if the person receiving the call already knew that the call was from their daughter, then the person receiving the call could have answered “hello Emma” instead of simply saying “hello.” Answering by name may have saved time because it

established in the caller's mind that the person receiving the call already knew their identity.

SUMMARY

[0004] This Summary is provided to introduce, in a simplified form, a selection of concepts that are further described below in the Detailed Description. This Summary is not intended to identify key features or essential features of the claimed subject matter, nor is it intended to be used to limit the scope of the claimed subject matter.

[0005] Example apparatus and methods facilitate establishing context for an incoming phone call. The context goes beyond conventional systems like caller id that rely only on information stored on the receiving device or elsewhere (e.g., telecommunications server) that can be retrieved based on a telephone number or other identifier associated with an incoming call. Example apparatus and methods facilitate providing additional context by identifying not just a party, but an intention (e.g., family matter, business matter) for a call and an action (e.g., make appointment, make purchase) to be taken in response to the call. The intention and action may be parsed out of a speech-to-text transcript of the phone call provided during the phone call. Once the intention and actions are identified, applications and content that are relevant to the phone call may be identified and automatically surfaced on devices available to the recipient or caller. Thus, rather than having to manually search for content and applications to display or edit the content, while talking on the phone, the content and applications may be automatically presented. Additionally, a to-do list of actions to be taken following the phone call may be automatically generated.

[0006] Example apparatus and methods use information about a party to a call to gather contextual information and to present that contextual information on, for example, a desktop or other related devices during and after a phone call. A computing device(s) may be controlled to display relevant content and a relevant application for a phone call during the phone call. A logic (e.g., circuit, hardware, firmware) may identify a party on the phone call based, at least in part, on data received from a phone used by the party. Information about the caller may be

acquired and displayed. For example, documents recently accessed by the caller, social media posts accessed by the caller, searches performed by the caller, or other information may be accessed and selectively displayed. Another logic may identify the relevant content and the relevant application based, at least in part, on text provided in a text-based transcript of the phone call. The text-based transcript may be provided in real time by a natural language processing (NLP) service during the phone call. The content and relevant application may also be identified by the documents/posts/searches/etc. identified for the caller. Another logic may control the device(s) to selectively present the relevant content and the relevant application. Content or applications that are accessed during the phone call may be tracked. A to-do list may be presented after the call. The to-do list may remind a party to the call of an action to be taken after the call. For example, a party may be reminded to make another call, to send an email, to make or keep an appointment, or other action.

BRIEF DESCRIPTION OF THE DRAWINGS

[0007] The accompanying drawings illustrate various example apparatus, methods, and other embodiments described herein. It will be appreciated that the illustrated element boundaries (e.g., boxes, groups of boxes, or other shapes) in the figures represent one example of the boundaries. In some examples, one element may be designed as multiple elements or multiple elements may be designed as one element. In some examples, an element shown as an internal component of another element may be implemented as an external component and vice versa. Furthermore, elements may not be drawn to scale.

[0008] Figure 1 illustrates an example environment associated with a phone call.

[0009] Figure 2 illustrates another example environment associated with a phone call.

[0010] Figure 3 illustrates an example method associated with phone call context setting by a cross device companion application.

[0011] Figure 4 illustrates an example method associated with phone call context setting by a cross device companion application.

[0012] Figure 5 illustrates an example apparatus associated with phone call context setting by a cross device companion application.

[0013] Figure 6 illustrates an example apparatus associated with phone call context setting by a cross device companion application.

[0014] Figure 7 illustrates an example cloud operating environment associated with phone call context setting by a cross device companion application.

[0015] Figure 8 illustrates an example mobile computing device configured to participate in context setting by a cross device companion application.

DETAILED DESCRIPTION

[0016] A busy person who receives a phone call may end up asking themselves “who am I talking to?” “why am I talking to them?” “what do I need to look up or what do I need in front of me on the computer to answer this call?” “what do I need to do in response to this call?” and other questions. Conventionally, the busy person might need to stop what they’re doing, search through their computer(s) to find documents, content, applications, or other items to answer the call. Conventionally, the busy person might need to remember what to do after the call is over and write down a note. If the call is a lengthy call, the to-do list may only include items that the busy person actually remembers, leaving some items off the list. Example apparatus and methods facilitate establishing context for a phone call, which answers the questions of “who am I talking to” and “why am I talking to them?” Example apparatus and methods also facilitate identifying intentions and actions for a phone call, which in turn facilitates answering the question “what do I need to look up to answer this call?” Example apparatus and methods may also track an entire call so that a to-do list includes all the relevant action items, not just the few that the busy person might remember and write down.

[0017] Consider a busy computer programmer standing at their desk working on a complicated device driver. The programmer’s cell phone may ring and caller-id may reveal that it is the programmer’s wife calling. The programmer knows that he has to answer the call because his wife is a doctor who is even more busy than the programmer and earlier that day she’d sent him an email that informed him that she was going to call him with some instructions for picking up the children.

Conventionally, the programmer might have to minimize his code windows and manually bring up some other applications (e.g., email, calendar, map search) so that he could remind himself of why his wife was calling, so he could figure out what time he was going to be free later in the afternoon, and so he would be able to store the address his wife was going to give him. This was if he even remembered why she was going to call in the first place.

[0018] Example applications and methods may identify that it is the programmer's wife that is calling, may automatically display her earlier email, and may determine that the call is a family matter and that she is likely calling about picking up the kids later in the day. Thus the calendar application and a map search program may also automatically be surfaced on device(s) (e.g., desktop computer, laptop computer, tablet computer) that are available to the programmer. In one embodiment, the applications or content may be displayed on a device based on the workload being experienced by the device (e.g., very active, inactive), the proximity of the device to the programmer (e.g., in his hand, within his grasp), or based on other factors.

[0019] During the call, the programmer's wife may give him the address at which the kids are to be collected and the time. The calendar application may automatically determine that the programmer has no conflicts and the map search program may automatically print out relevant maps. During the call, the programmer's wife may also ask him to pick up some food for dinner. Example apparatus and methods may therefore also bring up locations where the food can be purchased that are on or near the route for picking up the kids. When the call concludes, a to-do list may be presented on the programmer's phone, desktop, laptop, or other computing device(s). When the programmer gets in his car after work, the to-do list may automatically be presented on his car's computing system. Thus, not only will the programmer have a more pleasant, less intrusive phone call that doesn't require him to look up a bunch of information, but the programmer may actually remember what his wife told him and thus actually pick up the food, and the kids, at the appointed time, at the correct location. All of this may be achieved with a more seamless context shift at work and thus with a less painful context shift back to work.

[0020] Figure 1 illustrates an example environment associated with a phone call. A phone 100 provides caller identification information 102 to an example cross-

device application 110. Device 110 may be various types of devices including, but not limited to, a phone, a tablet computer, a laptop computer, a smart watch, or a desktop computer. A service 120, which may be located in the cloud, provides action/intention data 122 and a voice-to-text transcript 124 to the cross-device application 110. The cross-device application 110 identifies and surfaces content 112 and application 114, which may be displayed on devices 130 through 138. A member of the devices 130 through 138 may be selected for presenting the content 112 or application 114 based on the type of content, the type of application, a load on a device, a proximity of the device to a viewer, or on other criteria. In one embodiment, rather than receiving action/intention data 122 and voice-to-text transcript 124 from service 120, the action/intention data 122 or voice-to-text transcript 124 may be provided to devices 130-128 which may then produce content 112 or identify application 114.

[0021] Figure 2 illustrates another example environment associated with a phone call. In this example, cross-device application 110 also produces tracking data 140 that may be provided to machine learning 150 which will adapt how service 120 produces the action/intention data 122 in the future. The tracking data 140 may identify content that was accessed during the call, applications that were used during the call, or other information. The machine learning 150 may produce data that controls how a natural language processing (NLP) application or circuit available to service 120 will be adapted. In one embodiment, the tracking data may be produced at devices 130-138. In one embodiment, the machine learning 150 may occur at devices 130-138.

[0022] Some portions of the detailed descriptions that follow are presented in terms of algorithms and symbolic representations of operations on data bits within a memory. These algorithmic descriptions and representations are used by those skilled in the art to convey the substance of their work to others. An algorithm is considered to be a sequence of operations that produce a result. The operations may include creating and manipulating physical quantities that may take the form of electronic values. Creating or manipulating a physical quantity in the form of an electronic value produces a concrete, tangible, useful, real-world result.

[0023] It has proven convenient at times, principally for reasons of common usage, to refer to these signals as bits, values, elements, symbols, characters,

terms, numbers, and other terms. It should be borne in mind, however, that these and similar terms are to be associated with the appropriate physical quantities and are merely convenient labels applied to these quantities. Unless specifically stated otherwise, it is appreciated that throughout the description, terms including processing, computing, and determining, refer to actions and processes of a computer system, logic, processor, or similar electronic device that manipulates and transforms data represented as physical quantities (e.g., electronic values).

[0024] Example methods may be better appreciated with reference to flow diagrams. For simplicity, the illustrated methodologies are shown and described as a series of blocks. However, the methodologies may not be limited by the order of the blocks because, in some embodiments, the blocks may occur in different orders than shown and described. Moreover, fewer than all the illustrated blocks may be required to implement an example methodology. Blocks may be combined or separated into multiple components. Furthermore, additional or alternative methodologies can employ additional, not illustrated blocks.

[0025] Figure 3 illustrates an example method 300. Method 300 includes, at 310, receiving an identifier of a caller that initiated the phone call. The identifier may be received from a process (e.g., agent) running on a phone that initiates a phone call. The identifier of the caller may include, for example, a phone number, a device identifier of the phone that initiates the phone call, a location of the phone that initiates the phone call, an email address of the caller, a social media identifier of the caller, or other information. In one embodiment, the identifier may be provided as part of the phone call. In another embodiment, the identifier may be provided using a separate communication channel (e.g., text, email).

[0026] Method 300 includes, at 320, receiving first data that describes an intention associated with the phone call. The first data may be received at times including, before a call session or during a call session. The intention may identify whether the phone call is a social communication, a work communication, a travel communication, an informational communication, a family communication, an emergency communication, or a commercial communication. A social communication may be, for example, a call between friends or family that concerns going to a movie, going to a game, or just catching up. A work communication may be, for example, a call between co-workers, a boss and a worker, or other members

of an organization that concerns a business matter. A travel communication may concern planning a trip, reporting on a trip, or other similar activity. A family communication may be, for example, a call between family members that concerns the family (e.g., pick up kids, gift list for birthday party, medical instructions for aging parent). An emergency communication may be, for example, a call from a weather bureau that a tornado or tsunami is impending. A commercial communication may be, for example, a notification that an item has been purchased, that an item has been delivered, or other similar commercial activity.

[0027] Method 300 also includes, at 320, receiving second data that describes an action associated with the phone call. The second data may be received at times including, before a call session or during a call session. The action may describe whether the phone call concerns a purchase, a payment, an appointment to be made, an appointment to keep, a communication to make, an edit to a document, an edit to a presentation, or other action. A purchase may be, for example, an item to be bought online, an item to be bought at the store, or other item. The purchase may be described by an item, an amount, a time, and other parameters. A payment may be, for example, a rent payment to be made online, a car payment to be made by writing a check, a lunch money payment to be made at school, or other payment. The payment may be described by an item, by an amount, by a time, or by other parameters. An appointment to be made may be, for example, an online meeting to schedule, a physical meeting to schedule, or other type of meeting. The appointment may be described by participants, time, location, and other parameters. An appointment to keep may be, for example, an online meeting to attend, a physical meeting to attend, or other type of meeting to attend. The appointment may be described by participants, time, location, and other parameters. An edit to a document may be, for example, a sentence to add, a word to delete, a comment to make, or other change to the document. The edit may be described by an insertion, a deletion, and a location. An edit to a presentation may be, for example, a graphic to add, text to delete, an animation to include, or other item. The edit may be described by an insertion, a deletion, a change, and a location. The communication to make may be, for example, a phone call, an email, a text, or a social media post. The communication may be described by the desired parties, a desired time, and a desired medium.

[0028] Method 300 includes, at 340, presenting third data that describes the caller. The third data may be based, at least in part, on the identifier. Presenting the third data may include displaying the data, making an audible presentation, making a haptic presentation, or other communication of the data. For example, a picture of the caller may be displayed on a computer and the caller's name may be spoken, scrolled in Braille, or presented in other non-visual ways. The third data may describe not just who the caller is but what the caller has been doing that may be relevant to the phone call. For example, the third data may describe a call participated in by the caller. The description may include a start/end time, a transcript of the call, a summary of the call, photographs or documents reference in the phone call, or other information about the call. By way of illustration, if the caller just finished a call with a co-worker and now is calling you, then the transcript of that previous call may be relevant to this call and may help provide context for this call. The third data may describe an email accessed by the caller. By way of illustration, if the caller just sent you an email and now is calling, then that email may be relevant to the call. The third data may include photographs or documents referenced by or attached to the email. The third data may also describe other communications or actions by the caller including, for example, a text accessed by the caller, a social media item (e.g., Facebook® post, Twitter® tweet, Pinterest® pin) accessed by the caller, a search performed by the caller, a document accessed by the caller, or a presentation accessed by the caller. Information about these communications may be provided as part of identifying not just the caller, but what the caller has been doing recently that may be relevant to the phone call. In one embodiment, the third data may come from the cloud, may come from the caller, or may reside in local data already available to the caller.

[0029] Method 300 includes, at 350, selecting a computer application that is relevant to the phone call. The computer application may be selected based, at least in part, on the first data and the second data. For example, if the first data indicates that this is a business call and the second data indicates that it's about editing a document, then a word processing application suitable for editing the document may be started and presented on one or more devices available to a recipient of the phone call. The computer application relevant to the phone call may be, for example, an email application, a word processing application, a presentation

processing application, a search application, a social media application, a calendar application, a payment application, or other application. Identifying and automatically starting and presenting a relevant application saves time and reduces the overhead associated with context switching.

[0030] Method 300 includes, at 360, selecting a piece of electronic content relevant to the phone call. The piece of electronic content may be selected based, at least in part, on the first data and second data. For example, if the first data indicates that this is a business call and the second data indicates that it's about editing a document, then the document to be edited may be accessed and presented on one or more devices available to a recipient of the phone call. The piece of electronic content relevant to the phone call may be, for example, a document, a presentation, an email, a social media post, a calendar entry, an invoice, a receipt, or other information. By way of illustration, if a caller has just looked at an invoice and a check register and now is calling you, and you are a vendor for the caller, then it is likely that the caller is calling about a payment made or to be made on the invoice. Thus, the invoice and a payment record may be selected as content to be displayed. This may save considerable time looking for information during a phone call.

[0031] Method 300 includes, at 370, selectively producing fourth data that describes an action to be performed after the phone call is terminated. Once the fourth data is produced, it may be selectively presented and stored. The fourth data may describe, for example, a purchase, a payment, an appointment to be made, an appointment to keep, a communication to make, a document to edit, a presentation to edit, or other item and action. The fourth data may take the form of a to-do list or reminder list. The fourth data may take the form of information that can be provided in a to-do list or reminder list. The fourth data may describe what is to be done (e.g., edit a document), when it is to be done (e.g., before noon tomorrow), by whom it is to be done (e.g., worker name), or other information. Rather than have to hand write a note, the fourth data can be used for electronically reminding someone about a task or even assigning the task to a third party. The fourth data may be directed to a party to the call or to a third party.

[0032] The third data, the electronic content, the computer application, or the fourth data may be presented on different devices available to a party to the phone call. The devices may include, for example, a phone of the recipient, a tablet

computer of the recipient, a laptop computer of the recipient, a desktop computer of the recipient, a vehicle-based computer of the recipient, or other device. Different devices may be appropriate for different content or different applications at different times. Thus, a member of a set of devices available for presenting the electronic content or computer application may be selected based on factors including a workload on the member, a proximity of the member to the recipient of the phone call, the type of electronic content, the type of computer application, or other factor. By way of illustration, if a worker is running a desktop computer at 90% CPU utilization but has a tablet computer only running at 10% utilization, then the tablet computer may be selected. By way of further illustration, if a person has a laptop that is co-located with the person and a tablet computer that is a mile away, then the laptop may be selected. By way of further illustration, if the content to be presented is a video clip, then a device with a larger or higher resolution screen may be selected over a device with a smaller or lower resolution screen.

[0033] Figure 4 illustrates another embodiment of method 300. This embodiment also includes, at 330, receiving a text-based transcript of the phone call. The text-based transcript may be produced by a natural language processing (NLP) service. The NLP service may operate in the cloud. In one embodiment, the first data may be selected (e.g., parsed) from the text-based transcript. Similarly, the second data may be selected (e.g., parsed) from the text-based transcript. In one embodiment, the text-based transcript may be provided in real-time (e.g., while the parties are conversing).

[0034] Method 300 also includes, at 380, producing and storing tracking data. The tracking data may describe the intention associated with the phone call. For example, the tracking data may describe whether the phone call was a personal, business, or other type of call. The tracking data may describe an action associated with the phone call. For example, the tracking data may describe whether the phone call concerned setting up an appointment, setting up a call, making a purchase, or other action. The tracking data may describe an application used during the phone call by the caller or a recipient of the phone call. For example, if the recipient of the phone call opened up a browser application and searched for a location, then the tracking data may record which browser was used and what searches were performed. The tracking data may describe content referenced during the phone call

by the caller or the recipient of the phone call. For example, if the caller looked at a video during the call, then a link to the video or other identifying information about the video may be stored in the tracking data. The tracking data may describe a note taken during the phone call by the caller or the recipient of the phone call. For example, if the recipient used a stylus on their smartphone to make a note, the note may be captured and preserved. In one embodiment, the transcript may be annotated with tracking data that is produced during the phone call. The tracking data may be stored in a data store on the calling phone, in a data store on the phone that was called, on a data store associated with one of the devices available to the caller, in the cloud, or in other data stores.

[0035] Method 300 also includes, at 390, presenting the tracking data to a machine learning process. The machine learning process may adapt how the NLP service will select data that describes an intention in the future (e.g., in a subsequent phone call). The machine learning process may also adapt how the NLP service will select data that describes an action for the caller in the future. For example, if the NLP service presented first data that identified the call as a business call, and if the tracking data indicates that business-related documents were edited and that a business-related meeting was scheduled, then the machine learning may enhance or confirm the process that produced the first data. However, if the NLP service presented second data that identified that the action was a meeting to be kept, but the action actually turned out to be a purchase to be made, then the machine learning may diminish or negatively reinforce the process that produced the second data. Various machine learning techniques and approaches may be employed.

[0036] While Figures 3 and 4 illustrates various actions occurring in serial, it is to be appreciated that various actions illustrated in Figures 3 and 4 could occur substantially in parallel. By way of illustration, a first process could receive data, a second process could select content and applications, a third process could present content and applications, a fourth process could produce a to-do list, and a fifth process could produce, store, and provide tracking data. While five processes are described, it is to be appreciated that a greater or lesser number of processes could be employed and that lightweight processes, regular processes, threads, and other approaches could be employed.

[0037] In one example, a method may be implemented as computer executable instructions. Thus, in one example, a computer-readable storage device may store computer executable instructions that if executed by a machine (e.g., computer) cause the machine to perform methods described or claimed herein including method 300. While executable instructions associated with the above methods are described as being stored on a computer-readable storage device, it is to be appreciated that executable instructions associated with other example methods described or claimed herein may also be stored on a computer-readable storage device. In different embodiments the example methods described herein may be triggered in different ways. In one embodiment, a method may be triggered manually by a user. In another example, a method may be triggered automatically.

[0038] Figure 5 illustrates an apparatus 500 that includes a processor 510, a memory 520, a set 530 of logics, and an interface 540 that connects the processor 510, the memory 520, and the set 530 of logics. The processor 510 may be, for example, a microprocessor in a computer, a specially designed circuit, a field-programmable gate array (FPGA), an application specific integrated circuit (ASIC), a system-on-a-chip, a dual or quad processor, or other computer hardware. The memory 520 may store data associated with a transaction or instructions to be executed by processor 510. Apparatus 500 may be, for example, a computer, a laptop computer, a tablet computer, a personal electronic device, a smart phone, or other device that can access and process data or calls.

[0039] In one embodiment, the apparatus 500 may be a general purpose computer that has been transformed into a special purpose computer through the inclusion of the set 530 of logics. The set 530 of logics may be configured to control one or more computing devices to display to a party of a phone call a relevant content and a relevant application for the phone call during the phone call. For example, the set 530 of logics may be circuits or firmware in a computer that surface relevant content on an appropriate device that is visible to or otherwise available to the party to the phone call. By way of illustration, when the party is receiving a phone call from their boss concerning a presentation on which they are working, then the presentation may be displayed on a device having high resolution graphics capability and visible to the recipient. The presentation may be displayed without the parties having to locate it and share it on an application. By way of further

illustration, when the party is receiving a phone call from their friend about tickets to a sporting match, then a search engine may display a schematic of a stadium and lists of tickets available from various ticket brokers. The schematic and ticket sites may be presented without the parties having to manually locate the map or the broker sites. If the party is receiving the call in their car, then the information may be presented on the car computing system. If the party is receiving the call in their living room, then the information may be presented on their television or tablet computer. The parties do not need to select which device will present the content or application.

[0040] The set 530 of logics may include a first logic 532 that identifies the party on the phone call. The party may be identified based, at least in part, on data received from a phone used by the party. For example, the party may be identified by a phone number, by an alias, or by other information. In addition to simply identifying the party, the first logic 532 may identify what the party has been doing recently that may be relevant to the phone call. Consider what prompts a person to make a phone call. The person may be looking at something on the internet that reminds them to call their friend. Thus, recent internet (e.g., browsing) activity may be relevant to the call. Similarly, the person may have just finished editing a document at work. Finishing the edits may prompt the user to call a co-worker, boss, or employee. Thus, recent edits may be relevant to the call. In another example, a person may have just received an email that had some important information. The person may pick up the phone in response to the email. Thus, recent emails may be relevant to the call. Other recent activities may also be relevant.

[0041] Therefore, in one embodiment, the first logic 532 accesses data that was accessed by the party within a pre-determined time before the phone call or during the phone call. The pre-determined time before the phone call may be measured in clock time (e.g., 1 minute, 5 minutes) or may be measured in activity time (e.g., most recent action, 5 most recent actions). The data accessed by the party may include, for example, email data, text data, word processing data, presentation data, telephonic data, and social media data. The social media data may include, for example, posts made or viewed by the caller, videos made or viewed by the caller, or other social media information.

[0042] The set 530 of logics may also include a second logic 534 that identifies the relevant content and the relevant application. The relevant content and relevant application may be identified from text provided in a text-based transcript of the phone call. In one embodiment, the text-based transcript is provided in real time by a natural language processing (NLP) service during the phone call. Thus, during a phone call, a party to the phone call may be presented with a real-time voice-to-text transcript of the call. Interesting information in the transcript may be parsed to discern what content is relevant to the call and what applications are relevant to the call. For example, if the parties are discussing a presentation, then the computer file in which the presentation is stored is likely relevant content and a presentation viewing application is likely a relevant application. But if the parties are discussing a series of posts on a social media site, then the social media application is likely the relevant application and the thread of posts is likely the relevant content.

[0043] Different phone calls may have different purposes. Thus, in one embodiment, the second logic 534 selects the relevant content and the relevant application based, at least in part, on what the phone call concerns. The phone call may concern, for example, a family matter, a business matter, a social matter, or other type of matter. The phone call may also concern, for example, a physical meeting, a communication to be made, a transaction to be performed, an update to be made to the relevant content, or other action. By way of illustration, a family matter phone call may concern two family members agreeing to meet at a certain time (e.g., after work) and a certain location (e.g., favorite restaurant) for a certain purpose (e.g., dinner). This information may be used to bring up a website for the restaurant through which a reservation may be made and even through which dinner may be pre-ordered. The menu would be relevant content and the reservation system would be a relevant application. By way of further illustration, a business matter may concern a boss and worker who agree that the boss will complete the review of a document for the worker by a certain time. The document would be the relevant content and a document processing application (e.g., word processor, slide deck processor) would be a relevant application. By way of further illustration, a social matter phone call may concern two friends agreeing to go to a movie and that one of the friends should text their other friend to tell her when and where to meet.

The schedule for the theatre may be relevant content and an email or text application to communicate with the third friend may be a relevant application.

[0044] The set 530 of logics may also include a third logic 536 that controls one or more devices to selectively present the relevant content and the relevant application. The third logic 536 may identify what devices are available to present the relevant content and the relevant application and may then selectively distribute the relevant content to appropriate devices. A member of the devices may be selected to present the relevant content and to present the relevant application based on factors including a workload on the member, a proximity of the member to the recipient of the phone call, the type of relevant content, the type of the relevant application, or on other factors. By way of illustration, the third logic 536 may determine that a desktop system and a tablet computer are available to display relevant content and relevant applications. However, the third logic 536 may determine that the desktop system is operating above a threshold level (e.g., 90% processor usage) and is running a certain type of application (e.g. compiler) that ought not to be disturbed. The third logic 536 may also determine that the tablet computer is used less than a threshold amount (e.g., 25% processor usage) and is running another application (e.g., video game) that can be disturbed. The third logic 536 may therefore decide to present the relevant content and relevant application on the tablet computer rather than the desktop computer. By way of further illustration, the third logic 536 may determine that a party is in their car and that a smart phone, a laptop computer, and the car's computing system are within one meter of the party. The third logic 536 may determine that the car computing system is appropriate for presenting the relevant content and the relevant application rather than displaying them on the laptop computer.

[0045] Figure 6 illustrates an apparatus 600 that is similar to apparatus 500 (Figure 5). For example, apparatus 600 includes a processor 610, a memory 620, a set of logics 630 (e.g., 632, 634, 636) that correspond to the set of logics 530 (Figure 5) and an interface 640. However, apparatus 600 includes an additional fourth logic 638. The fourth logic 638 may update an electronic notification system with data that controls the electronic notification system to present an action item to the party on a member of the one or more devices. The action item may concern the physical meeting, the communication to be made, the transaction to be performed, or the

update to be made to the relevant content. This data may take the form of a to-do list, a reminder list, or other type of reminder. When the action item is a physical meeting, the to-do list may, for example, include a map annotated with a meeting time and location. When the action item is a communication to be made, the to-do list may, for example, include a link to an application through which the communication can be made and the parties to the communication. Certain fields (e.g., recipient, subject matter) may be pre-populated based on information processed during the phone call. When the action item is a transaction to be performed, the to-do list may include, for example, a link to a commercial application (e.g., shopping site) at which the transaction can be completed. Certain fields (e.g., object to be purchased) may be pre-populated based on information processed during the phone call. When the action item is an update to be made to a document, the to-do list may include a copy of the document. Different action items may produce different to-do list embodiments.

[0046] Figure 7 illustrates an example cloud operating environment 700. A cloud operating environment 700 supports delivering computing, processing, storage, data management, applications, and other functionality as an abstract service rather than as a standalone product. Services may be provided by virtual servers that may be implemented as one or more processes on one or more computing devices. In some embodiments, processes may migrate between servers without disrupting the cloud service. In the cloud, shared resources (e.g., computing, storage) may be provided to computers including servers, clients, and mobile devices over a network. Different networks (e.g., Ethernet, Wi-Fi, 802.x, cellular) may be used to access cloud services. Users interacting with the cloud may not need to know the particulars (e.g., location, name, server, database) of a device that is actually providing the service (e.g., computing, storage). Users may access cloud services via, for example, a web browser, a thin client, a mobile application, or in other ways.

[0047] Figure 7 illustrates an example context service 760 residing in the cloud. The context service 760 may rely on a server 702 or service 704 to perform processing and may rely on a data store 706 or database 708 to store data. While a single server 702, a single service 704, a single data store 706, and a single database 708 are illustrated, multiple instances of servers, services, data stores, and

databases may reside in the cloud and may, therefore, be used by the context service 760.

[0048] Figure 7 illustrates various devices accessing the context service 760 in the cloud. The devices include a computer 710, a tablet 720, a laptop computer 730, a personal digital assistant 740, and a mobile device (e.g., cellular phone, satellite phone) 750. The context service 760 may analyze a call and produce a transcript that is provided to various devices. The context service 760 may also identify action and intention information. In one embodiment, the action and intention information is extracted (e.g., parsed) from the transcript.

[0049] It is possible that different users at different locations using different devices may access the context service 760 through different networks or interfaces. In one example, the context service 760 may be accessed by a mobile device 750. In another example, portions of context service 760 may reside on a mobile device 750.

[0050] Figure 8 illustrates an example mobile device 800. While Figure 8 illustrates a mobile device 800, the embodiment is not intended to limit other more general apparatus described in, for example, figures 5 and 6. While a mobile device 800 is illustrated, context setting may also be practiced by devices including computers, tablets, voice over internet protocol devices, and other computing devices.

[0051] Figure 8 is a system diagram depicting an exemplary mobile device 800 that includes a variety of optional hardware and software components, shown generally at 802. Components 802 in the mobile device 800 can communicate with other components, although not all connections are shown for ease of illustration. The mobile device 800 can be a variety of computing devices (e.g., cell phone, smartphone, handheld computer, Personal Digital Assistant (PDA), etc.) and can allow wireless two-way communications with one or more mobile communications networks 804, such as a cellular or satellite networks.

[0052] Mobile device 800 can include a controller or processor 810 (e.g., signal processor, microprocessor, ASIC, or other control and processing logic circuitry) for performing tasks including signal coding, data processing, input/output processing, power control, or other functions. An operating system 812 can control the allocation

and usage of the components 802 and support application programs 814. The application programs 814 can include mobile computing applications (e.g., email applications, calendars, contact managers, web browsers, messaging applications), or other computing applications.

[0053] Mobile device 800 can include memory 820. Memory 820 can include non-removable memory 822 or removable memory 824. The non-removable memory 822 can include RAM, ROM, flash memory, a hard disk, or other memory storage technologies. The removable memory 824 can include flash memory or a Subscriber Identity Module (SIM) card, which is well known in GSM communication systems, or other memory storage technologies, such as “smart cards.” The memory 820 can be used for storing data or code for running the operating system 812 and the applications 814. Example data can include web pages, text, images, sound files, video data, or other data sets to be sent to or received from one or more network servers or other devices via one or more wired or wireless networks. The memory 820 can be used to store a subscriber identifier, such as an International Mobile Subscriber Identity (IMSI), and an equipment identifier, such as an International Mobile Equipment Identifier (IMEI). Such identifiers can be transmitted to a network server to identify users and equipment.

[0054] The mobile device 800 can support one or more input devices 830 including, but not limited to, a touchscreen 832, a microphone 834, a camera 836, a physical keyboard 838, or trackball 840. The mobile device 800 may also support output devices 850 including, but not limited to, a speaker 852 and a display 854. Other possible output devices (not shown) can include piezoelectric or other haptic output devices. Some devices can serve more than one input/output function. For example, touchscreen 832 and display 854 can be combined in a single input/output device. The input devices 830 can include a Natural User Interface (NUI). An NUI is an interface technology that enables a user to interact with a device in a “natural” manner, free from artificial constraints imposed by input devices such as mice, keyboards, remote controls, and others. Examples of NUI methods include those relying on speech recognition, touch and stylus recognition, gesture recognition both on screen and adjacent to the screen, air gestures, head and eye tracking, voice and speech, vision, touch, gestures, and machine intelligence. Other examples of a NUI include motion gesture detection using accelerometers/gyroscopes, facial

recognition, 3D displays, head, eye, and gaze tracking, immersive augmented reality and virtual reality systems, all of which provide a more natural interface, as well as technologies for sensing brain activity using electric field sensing electrodes (EEG and related methods). Thus, in one specific example, the operating system 812 or applications 814 can comprise speech-recognition software as part of a voice user interface that allows a user to operate the device 800 via voice commands. Further, the device 800 can include input devices and software that allow for user interaction via a user's spatial gestures, such as detecting and interpreting gestures to provide input to a gaming application.

[0055] A wireless modem 860 can be coupled to an antenna 891. In some examples, RF filters are used and the processor 810 need not select an antenna configuration for a selected frequency band. The wireless modem 860 can support two-way communications between the processor 810 and external devices. The modem 860 is shown generically and can include a cellular modem for communicating with the mobile communication network 804 and/or other radio-based modems (e.g., Bluetooth 864 or Wi-Fi 862). The wireless modem 860 may be configured for communication with one or more cellular networks, such as a GSM network for data and voice communications within a single cellular network, between cellular networks, or between the mobile device and a public switched telephone network (PSTN).

[0056] The mobile device 800 may include at least one input/output port 880, a power supply 882, a satellite navigation system receiver 884, such as a Global Positioning System (GPS) receiver, an accelerometer 886, or a physical connector 890, which can be a USB port, IEEE 1394 (FireWire) port, RS-232 port, or other port. The illustrated components 802 are not required or all-inclusive, as other components can be deleted or added.

[0057] Mobile device 800 may include a context logic 899 that is configured to provide a functionality for the mobile device 800. For example, context logic 899 may provide a client for interacting with a service (e.g., service 760, figure 7). Context logic 899 may provide or receive caller identification information. Context logic 899 may provide or receive action and intention information that facilitates establishing a context for a call. Context logic 899 may use the action and intention information to identify content or applications to access and provide on mobile device

800 or on other devices that are available to a party to a call. Context logic 899 may provide a to-do list that is surfaced on device 800 or other devices that are available to a party to a call.

Aspects of Certain Embodiments

[0058] In one embodiment, a computerized method includes receiving, from a process running on a phone that initiates a phone call, an identifier of a caller that initiated the phone call. The computerized method includes receiving first data that describes an intention associated with the phone call and receiving second data that describes an action associated with the phone call. The computerized method includes presenting third data that describes the caller, where the third data is based, at least in part, on the identifier. The computerized method includes selecting a computer application that is relevant to the phone call based, at least in part, on the first data and the second data and presenting the computer application on one or more devices available to a recipient of the phone call. The computerized method includes selecting a piece of electronic content relevant to the phone call based, at least in part, on the first data and second data and presenting the electronic content to the recipient using one or more members of the one or more devices. The computerized method includes selectively producing fourth data that describes an action to be performed after the phone call is terminated, selectively presenting the fourth data; and selectively storing the fourth data.

[0059] In one embodiment, the computerized method includes producing and storing tracking data that describes the intention associated with the phone call, the action associated with the phone call, an application used during the phone call by the caller or a recipient of the phone call, a content referenced during the phone call by the caller or the recipient of the phone call, a search performed during the phone call by the caller or the recipient of the phone call, or a note taken during the phone call by the caller or the recipient of the phone call.

[0060] In one embodiment, the identifier of the caller includes a device identifier of the phone that initiates the phone call, a location of the phone that initiates the phone call, an email address of the caller, or a social media identifier of the caller.

[0061] In one embodiment, the first data describes whether the phone call is a social communication, a work communication, a travel communication, an informational communication, a family communication, an emergency communication, or a commercial communication.

[0062] In one embodiment, the second data describes whether the phone call concerns a purchase, a payment, an appointment to be made, an appointment to keep, a communication to make, an edit to a document, or an edit to a presentation.

[0063] In one embodiment, the communication to make is a phone call, an email, a text, or a social media post.

[0064] In one embodiment, the third data describes a call participated in by the caller, an email accessed by the caller, a text accessed by the caller, a social media item accessed by the caller, a search performed by the caller, a document accessed by the caller, or a presentation accessed by the caller.

[0065] In one embodiment, the computer application relevant to the phone call is an email application, a word processing application, a presentation processing application, a search application, a social media application, a calendar application, or a payment application.

[0066] In one embodiment, the piece of content relevant to the phone call is a document, a presentation, an email, a social media post, a calendar entry, an invoice, or a receipt.

[0067] In one embodiment, the fourth data describes a purchase, a payment, an appointment to be made, an appointment to keep, a communication to make, a document to edit, or a presentation to edit.

[0068] In one embodiment, the computerized method includes receiving a text-based transcript of the phone call, where the text-based transcript is produced by a natural language processing (NLP) service operating in the cloud, and where the first data is selected from the text-based transcript and where the second data is selected from the text-based transcript.

[0069] In one embodiment, the one or more devices include a phone of the recipient, a tablet computer of the recipient, a laptop computer of the recipient, a desktop computer of the recipient, or a vehicle-based computer of the recipient.

[0070] In one embodiment, a member of the one or more devices is selected to present the electronic content or to run the computer application based, at least in part, on a workload on the member, on a proximity of the member to the recipient of the phone call, on the type of electronic content, or on the type of computer application.

[0071] In one embodiment, the computerized method includes presenting the tracking data to a machine learning process that adapts how a natural language processing (NLP) service will select data that describes an intention and will select data that describes an action for the caller in a subsequent phone call.

[0072] In one embodiment, an apparatus includes a processor, a memory, a set of logics configured to control one or more computing devices to display to a party of a phone call a relevant content and a relevant application for the phone call during the phone call, and an interface to connect the processor, the memory, and the set of logics. In one embodiment, the set of logics includes a first logic that identifies the party on the phone call based, at least in part, on data received from a phone used by the party, a second logic that identifies the relevant content and the relevant application based, at least in part, on text provided in a text-based transcript of the phone call, where the text-based transcript is provided in real time by a natural language processing (NLP) service during the phone call, and a third logic that controls the one or more devices to selectively present the relevant content and the relevant application.

[0073] In one embodiment, the first logic is configured to access data that was accessed by the party within a pre-determined time before the phone call or during the phone call, where the data accessed by the party includes email data, text data, word processing data, presentation data, telephonic data, and social media data.

[0074] In one embodiment, the second logic is configured to select the relevant content and the relevant application based, at least in part, on whether the phone call concerns a family matter, a business matter, or a social matter and on whether the phone call concerns a physical meeting, a communication to be made, a transaction to be performed, or an update to be made to the relevant content.

[0075] In one embodiment, the third logic is configured to identify the one or more devices available to present the relevant content and the relevant application, and to

selectively distribute the relevant content to the one or more devices, where a member of the one or more devices is selected to present the relevant content and to present the relevant application based, at least in part, on a workload on the member, on a proximity of the member to the recipient of the phone call, on the type of relevant content, or on the type of the relevant application.

[0076] In one embodiment, the apparatus includes a fourth logic that updates an electronic notification system with data that controls the electronic notification system to present an action item to the party on a member of the one or more devices, where the action item concerns the physical meeting, the communication to be made, the transaction to be performed, or the update to be made to the relevant content.

Definitions

[0077] The following includes definitions of selected terms employed herein. The definitions include various examples or forms of components that fall within the scope of a term and that may be used for implementation. The examples are not intended to be limiting. Both singular and plural forms of terms may be within the definitions.

[0078] “Computer-readable storage device”, as used herein, refers to a device that stores instructions or data. “Computer-readable storage device” does not refer to propagated signals. A computer-readable storage device may take forms, including, but not limited to, non-volatile media, and volatile media. Non-volatile media may include, for example, optical disks, magnetic disks, tapes, and other media. Volatile media may include, for example, semiconductor memories, dynamic memory, and other media. Common forms of a computer-readable storage devices may include, but are not limited to, a floppy disk, a flexible disk, a hard disk, a magnetic tape, other magnetic medium, an application specific integrated circuit (ASIC), a compact disk (CD), a random access memory (RAM), a read only memory (ROM), a memory chip or card, a memory stick, and other media from which a computer, a processor or other electronic device can read.

[0079] References to “one embodiment”, “an embodiment”, “one example”, and “an example” indicate that the embodiment(s) or example(s) so described may

include a particular feature, structure, characteristic, property, element, or limitation, but that not every embodiment or example necessarily includes that particular feature, structure, characteristic, property, element or limitation. Furthermore, repeated use of the phrase “in one embodiment” does not necessarily refer to the same embodiment, though it may.

[0080] “Data store”, as used herein, refers to a physical or logical entity that can store data. A data store may be, for example, a database, a table, a file, a list, a queue, a heap, a memory, a register, and other physical repository. In different examples, a data store may reside in one logical or physical entity or may be distributed between two or more logical or physical entities.

[0081] “Logic”, as used herein, includes but is not limited to hardware or firmware on a machine, or combinations of each to perform a function(s) or an action(s), or to cause a function or action from another logic, method, or system. Logic may include a software controlled microprocessor, a discrete logic (e.g., ASIC), an analog circuit, a digital circuit, a programmed logic device, a memory device containing instructions, and other physical devices. Logic may include one or more gates, combinations of gates, or other circuit components. Where multiple logical logics are described, it may be possible to incorporate the multiple logical logics into one physical logic. Similarly, where a single logical logic is described, it may be possible to distribute that single logical logic between multiple physical logics.

[0082] To the extent that the term “includes” or “including” is employed in the detailed description or the claims, it is intended to be inclusive in a manner similar to the term “comprising” as that term is interpreted when employed as a transitional word in a claim.

[0083] To the extent that the term “or” is employed in the detailed description or claims (e.g., A or B) it is intended to mean “A or B or both”. When the Applicant intends to indicate “only A or B but not both” then the term “only A or B but not both” will be employed. Thus, use of the term “or” herein is the inclusive, and not the exclusive use. See, Bryan A. Garner, A Dictionary of Modern Legal Usage 624 (2d. Ed. 1995).

[0084] Although the subject matter has been described in language specific to structural features or methodological acts, it is to be understood that the subject

matter defined in the appended claims is not necessarily limited to the specific features or acts described above. Rather, the specific features and acts described above are disclosed as example forms of implementing the claims.

Claims

What is claimed is:

1. A computerized method, comprising:

receiving from a process running on a phone that initiates a phone call, an identifier of a caller that initiated the phone call;
receiving first data that describes an intention associated with the phone call;
receiving second data that describes an action associated with the phone call;
presenting third data that describes the caller, where the third data is based, at least in part, on the identifier;
selecting a computer application that is relevant to the phone call based, at least in part on the first data and the second data;
presenting the computer application on one or more devices available to a recipient of the phone call;
selecting a piece of electronic content relevant to the phone call based, at least in part, on the first data and second data;
presenting the electronic content to the recipient using one or more members of the one or more devices;
selectively producing fourth data that describes an action to be performed after the phone call is terminated;
selectively presenting the fourth data; and
selectively storing the fourth data.

ABSTRACT

Example apparatus and methods concern establishing context for a phone call. A computing device is controlled to display content and applications that are relevant for the call during the call. A party on the call is identified using data received from a phone used by the party. The relevant content and the relevant application are identified using actions (e.g., purchase to make, call to make) and intentions (e.g., family matter, business matter) identified in text provided in a text-based transcript of the call. The text-based transcript is provided in real time by a natural language processing (NLP) service during the call. The devices are controlled to selectively present the relevant content and the relevant application to make the call more automated and more productive. A to-do list is automatically generated based on the intentions, the actions, and on subject matter or content discussed or accessed during the call.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	§	
Gautam Deora, et al.	§	Confirmation No. Unassigned
	§	
Serial No.: Unassigned	§	Group Art Unit: Unassigned
	§	
Filed:	§	Examiner: Unassigned
	§	
For: Cross Device Companion	§	Atty. Docket: 358721-US-CNT
Application For Phone	§	
	§	

Mail Stop Amendment
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37 C.F.R. 1.8

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March 14, 2017

/Barry D. Blount/

Date

Barry D. Blount, Reg. No. 35,069

PRELIMINARY AMENDMENT

Sir:

The Applicants hereby submit the following Preliminary Amendment with accompanying remarks.

AMENDMENTS TO THE CLAIMS

Please cancel claim 1, and add new claims 2-21, as shown below. Pursuant to 37 C.F.R. § 1.121(c), the text of all pending claims, along with their current status, is set forth below.

1. (Canceled)
2. (New) A method of providing context to a phone call, the method comprising:
receiving the phone call;
selecting a document that is relevant to the phone call based on tracking data that
relates to a speech-to-text transcript of the phone call, the speech-to-text
transcript generated by a cloud service, and data describing (i) a type of
communication describing the phone call, and (ii) a subject of the phone call;
and
presenting the document.
3. (New) The method of claim 2, comprising producing and storing previous
tracking data associated with a previous phone call, wherein the previous tracking data
associated with the previous phone call describes a previous type of communication of the
previous phone call, and a previous subject of the previous phone call.
4. (New) The method of claim 3, wherein the previous tracking data describes a
previous document selected during the previous phone call.
5. (New) The method of claim 4, wherein the previous tracking data describes a
previous application used during the previous phone call, a previous search performed during
the previous phone call, and a previous note taken during the previous phone call.

6. (New) The method of claim 2, comprising receiving an identifier of a caller that initiates the phone call.

7. (New) The method of claim 6, wherein the identifier of the caller comprises an email address of the caller.

8. (New) The method of claim 6, wherein the identifier comprises a social media identifier of the caller.

9. (New) The method of claim 2, wherein the type of communication comprises one of a social communication, a work communication, a travel communication, an informational communication, a familial communication, an emergency communication, or a commercial communication.

10. (New) The method of claim 2, where the subject of the phone call comprises one of a purchase, a payment, an appointment to be made, an appointment to keep, a communication to make, an edit to the document, and an edit to a presentation.

11. (New) The method of claim 2, comprising selecting one or more devices associated with a recipient of the phone call to present the document.

12. (New) The method of claim 11, where the one or more devices comprise one or more of a phone of the recipient, a tablet computer of the recipient, a laptop computer of the recipient, a desktop computer of the recipient, or a vehicle-based computer of the recipient.

13. (New) The method of claim 11, wherein the one or more devices are selected based on one or more of a workload of the devices, and a proximity of the devices to the recipient.

14. (New) The method of claim 2, comprising selecting a computer application based on the tracking data.

15. (New) The method of claim 14, comprising selecting one or more devices associated with a recipient of the phone call based on a proximity of the devices to the recipient of the phone call.

16. (New) The method of claim 15, comprising launching the computer application on the one or more devices.

17. (New) A computer-readable storage device comprising computer-executable instructions that when executed by a computer processor, cause the computer processor to:

- receive a phone call;
- select a document that is relevant to the phone call based on tracking data that relates to a speech-to-text transcript of the phone call, the speech-to-text transcript generated by a cloud service, and data describing (i) a type of communication describing the phone call, and (ii) a subject of the phone call;
- select one or more devices associated with a recipient of the phone call to present the document; and
- present the document on the one or more devices.

18. (New) The computer-readable storage device of claim 17, wherein the computer-executable instructions cause the computer processor to produce and store previous tracking data associated with a previous phone call.

19. (New) The computer-readable storage device of claim 18, wherein the previous tracking data describes a previous type of communication describing the previous phone call, and a previous subject of the previous phone call.

20. (New) The computer-readable storage device of claim 19, wherein the previous tracking data describes a previous document selected during the previous phone call, a previous search performed during the previous phone call, and a previous note taken during the previous phone call.

21. (New) An apparatus, comprising:

a processing unit;

a memory comprising computer-executable code that, when executed by the

processing unit, cause the processing unit to:

receive a phone call;

select a computer application that is relevant to the phone call based on

tracking data that relates to a speech-to-text transcript of the phone

call, the speech-to-text transcript generated by a cloud service, and

data describing (i) a type of communication describing the phone call,

and (ii) a subject of the phone call;

select one or more devices associated with a recipient of the phone call to

execute the computer application; and

execute the computer application on the one or more devices.

REMARKS

The Applicants are filing this Preliminary Amendment in order to cancel claim 1, and add claims 2-21. No new matter has been added by way of these amendments. Upon entry of the amendments, claims 2-21 remain pending.

If the Examiner wishes to discuss any issue regarding the present application by way of a telephone conference, the Examiner is kindly invited to contact the undersigned attorney at the telephone number indicated below.

Respectfully submitted,

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