

Doc Code: PA..

Document Description: Power of Attorney

PTO/AIA/82A (07-12)

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

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**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 or equivalent) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5. If the Power of Attorney by Applicant form is not accompanied by this transmittal form or an equivalent, the Power of Attorney will not be recognized in the application.

Application Number			
Filing Date			
First Named Inventor	Inderpal Singh Mumick		
Title	Sender Driven Call Completion System		
Art Unit			
Examiner Name			
Attorney Docket Number	KIRU-12NP-US		
SIGNATURE of Applicant or Patent Practitioner			
Signature	/a tankha/	Date	12 December 2013
Name	Ashok Tankha	Telephone	856-266-5145
Registration Number	33802		
NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications.			
☒ *Total of <u>1</u> forms are submitted.			

This collection of information is required by 37 CFR 1.31, 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 1.31 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

POWER OF ATTORNEY BY APPLICANT

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

- ☐ I hereby appoint 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 equivalent):

OR

- ☒ I hereby appoint Practitioner(s) named below 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 equivalent):

Name	Registration Number		Name	Registration Number
Ashok Tankha	33802			

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

- ☐ The address associated with the above-mentioned Customer Number.

OR

- ☐ The address associated with Customer Number:

OR

☒ Firm or Individual Name

Ashok Tankha

Address

36 Greenleigh Drive

City

Sewell

State

NJ

Zip

08080

Country

USA

Telephone

856-266-5145

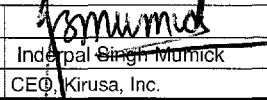
Email

ash@ipprocurement.com

I am the Applicant:

- ☐ Inventor or Joint Inventor
- ☐ Legal Representative of a Deceased or Legally Incapacitated Inventor
- ☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign
- ☐ 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)

SIGNATURE of Applicant for Patent

Signature		Date	6 Dec 2013
Name	Indupal Singh Mumick	Telephone	
Title and Company	CEO, Kirusa, Inc.		

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

- ☒ *Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.31, 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.**

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	KIRU-12NP-US
		Application Number	
Title of Invention	Sender Driven Call Completion System		
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		
	Inderpal	Singh	Mumick			
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service						
City	Berkely Heights	State/Province	NJ	Country of Residence	US	
Mailing Address of Inventor:						
Address 1	85 Swenson Circle, Berkely Heights,					
Address 2	NJ 07922, USA					
City	Berkely Heights	State/Province	NJ			
Postal Code	07922	Country	US			
Inventor 2					Remove	
Legal Name						
Prefix	Given Name	Middle Name	Family Name	Suffix		
	Surinder	Singh	Anand			
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service						
City	Highland Park	State/Province	NJ	Country of Residence	US	
Mailing Address of Inventor:						
Address 1	502 Leia Ln, Highland Park, NJ 08904, USA					
Address 2						
City	Highland Park	State/Province	NJ			
Postal Code	08904	Country	US			
Inventor 3					Remove	
Legal Name						
Prefix	Given Name	Middle Name	Family Name	Suffix		
	Raja	N.	Moorthy			
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service						

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	KIRU-12NP-US
		Application Number	
Title of Invention	Sender Driven Call Completion System		

City	Fairless Hills	State/Province	PA	Country of Residence	US
------	----------------	----------------	----	----------------------	----

Mailing Address of Inventor:

Address 1	611 Arlington Road, Fairless Hills,		
Address 2	PA 19030, USA		
City	Fairless Hills	State/Province	PA
Postal Code	19030	Country	US

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

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.

Name 1	Ashok Tankha	Name 2	
Address 1	36 Greenleigh drive		
Address 2			
City	Sewell	State/Province	NJ
Country	US	Postal Code	08080
Phone Number	856-266-5145	Fax Number	856-374-0246
Email Address	ash@ipprocurement.com		Add Email Remove Email

Application Information:

Title of the Invention	Sender Driven Call Completion System		
Attorney Docket Number	KIRU-12NP-US	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)		Suggested Figure for Publication (if any)	

Publication Information:

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

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

Representative Information:

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	KIRU-12NP-US
		Application Number	
Title of Invention	Sender Driven Call Completion System		

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)
Prefix	Given Name	Middle Name	Family Name	Suffix	Remove			
	Ashok		Tankha					
Registration Number	33802							
Additional Representative Information blocks may be generated within this form by selecting the Add button.								

Domestic Benefit/National Stage Information:

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

Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	non provisional of	61737274	2012-12-14
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			

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(d). 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(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove			
Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ⁱ (if applicable)
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	KIRU-12NP-US
		Application Number	
Title of Invention	Sender Driven Call Completion System		

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

☒	This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
-------------------------------------	--

Authorization to Permit Access:

☒	Authorization to Permit Access to the Instant Application by the Participating Offices
If 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 World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application. In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application. In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.	

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		
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	

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	KIRU-12NP-US
		Application Number	
Title of Invention	Sender Driven Call Completion System		

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	Kirusa, Inc.
-------------------	--------------

Mailing Address Information For Applicant:

Address 1		139 South Street, Suite 205,	
Address 2		New Providence, NJ 07974, USA	
City		New Providence	State/Province NJ
Country	US	Postal Code	07974
Phone Number		Fax Number	
Email Address			

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

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.

Assignee 1				
Complete this section only if non-applicant assignee information is desired to be included on the patent application publication in accordance with 37 CFR 1.215(b). Do not include in this section 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), as the patent application publication will include the name of the applicant(s).				
If the Assignee is an Organization check here. ☐				
Prefix	Given Name	Middle Name	Family Name	Suffix

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	KIRU-12NP-US
		Application Number	
Title of Invention	Sender Driven Call Completion System		

Mailing Address Information For Non-Applicant Assignee:			
Address 1			
Address 2			
City		State/Province	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			
Additional Assignee Data may be generated within this form by selecting the Add button.			

Signature:

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications.					
Signature	/a tankha/		Date (YYYY-MM-DD)	2013-12-12	
First Name	Ashok	Last Name	Tankha	Registration Number	33802
Additional Signature may be generated within this form by selecting the Add button.					

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 FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) ☒ Declaration Submitted With Initial Filing OR ☐ Declaration Submitted After Initial Filing (surcharge (37 CFR 1.16(f)) required)	Attorney Docket Number	KIRU-12NP-US
	First Named Inventor	Inderpal Singh Mumick
	COMPLETE IF KNOWN	
	Application Number	
	Filing Date	
	Art Unit	
		Examiner Name

Sender Driven Call Completion System

(Title of the Invention)

As a below named inventor, I hereby declare that:

This declaration is directed to:

☒ The attached application,

OR

☐ United States Application Number or PCT International application number _____
filed on _____.

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

I believe 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.

Authorization To Permit Access To Application by Participating Office

☒ If 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 World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the above-identified patent application is filed access to the above-identified patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the above-identified patent application is filed to have access to the above-identified patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the above-identified patent application with respect to: 1) the above-identified patent application-as-filed; 2) any foreign application to which the above-identified patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above-identified patent application; and 3) any U.S. application-as-filed from which benefit is sought in the above-identified patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Offices.

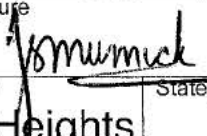
[Page 1 of 2]

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 21 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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DECLARATION — Utility or Design Patent Application

Direct all correspondence to: ☐		The address associated with Customer Number:		OR ☒		Correspondence address below	
Name Ashok Tankha							
Address 36 Greenleigh Drive							
City Sewell			State NJ		Zip 08080		
Country USA		Telephone 856-266-5145		Email ash@ipprocure.com			
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. Petitioner/applicant is advised that documents which form the record of a patent application (such as the PTO/SB/01) are placed into the Privacy Act system of records DEPARTMENT OF COMMERCE, COMMERCE-PAT-7, System name: <i>Patent Application Files</i>. Documents not retained in an application file (such as the PTO-2038) are placed into the Privacy Act system of COMMERCE/PAT-TM-10, System name: <i>Deposit Accounts and Electronic Funds Transfer Profiles</i>.							
LEGAL NAME OF SOLE OR FIRST INVENTOR:							
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)							
Inderpal Singh Mumick							
Inventor's Signature 					Date (Optional)		
Residence: City Berkely Heights		State NJ		Country USA			
Mailing Address 85 Swenson Circle, Berkely Heights, NJ 07922, USA							
City Berkely Heights		State NJ		Zip 07922		Country USA	
☒ Additional inventors are being named on the <u>1</u> supplemental sheet(s) PTO/AIA/10 attached hereto							

[Page 2 of 2]

SUPPLEMENTAL SHEET FOR DECLARATION

ADDITIONAL INVENTOR(S)

Supplemental Sheet (for PTO/AIA/08,09)

Page 1 of 1

Legal Name of Additional Joint Inventor, if any:

(E.g., Given Name (first and middle (if any)) and Family Name or Surname)

Surinder Singh Anand

Inventor's
Signature

Surinder Singh Anand

Date (Optional)

Residence: City Highland Park

State NJ

Country USA

502 Leia Ln, Highland Park, NJ 08904, USA

Mailing Address

City Highland Park

State NJ

Zip 08904

Country USA

Legal Name of Additional Joint Inventor, if any:

(E.g., Given Name (first and middle (if any)) and Family Name or Surname)

Raja N. Moorthy

Inventor's
Signature

Date (Optional)

Residence: City Fairless Hills

State PA

Country USA

611 Arlington Road, Fairless Hills, PA 19030, USA

Mailing Address

City Fairless Hills

State PA

Zip 19030

Country USA

Legal Name of Additional Joint Inventor, if any:

(E.g., Given Name (first and middle (if any)) and Family Name or Surname)

Inventor's
Signature

Date (Optional)

Residence: City

State

Country

Mailing Address

City

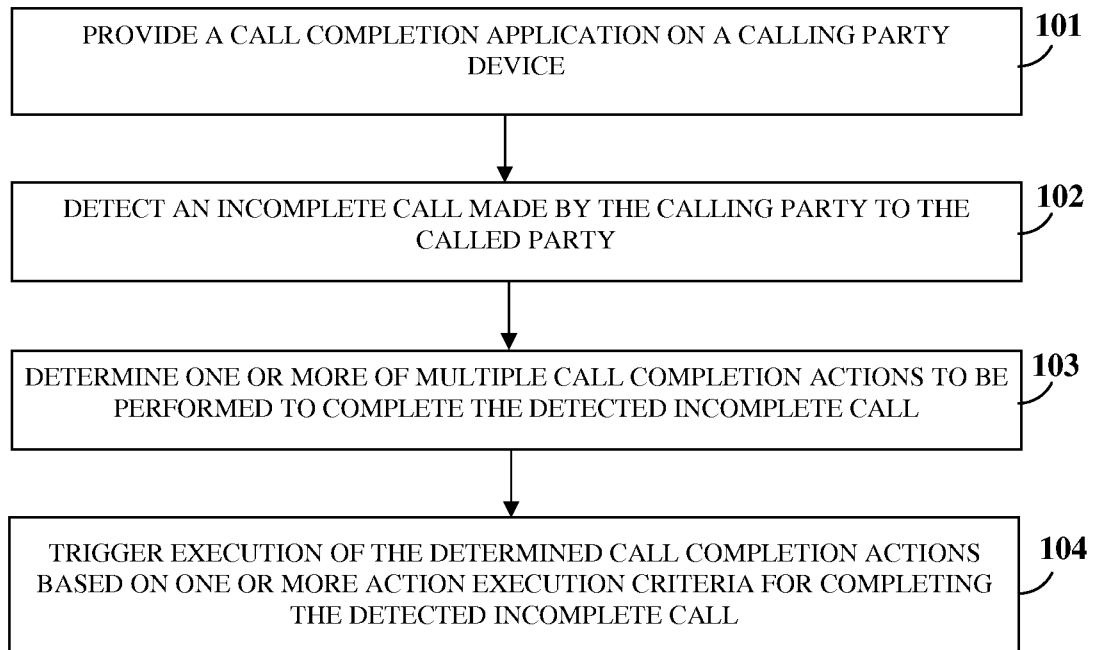
State

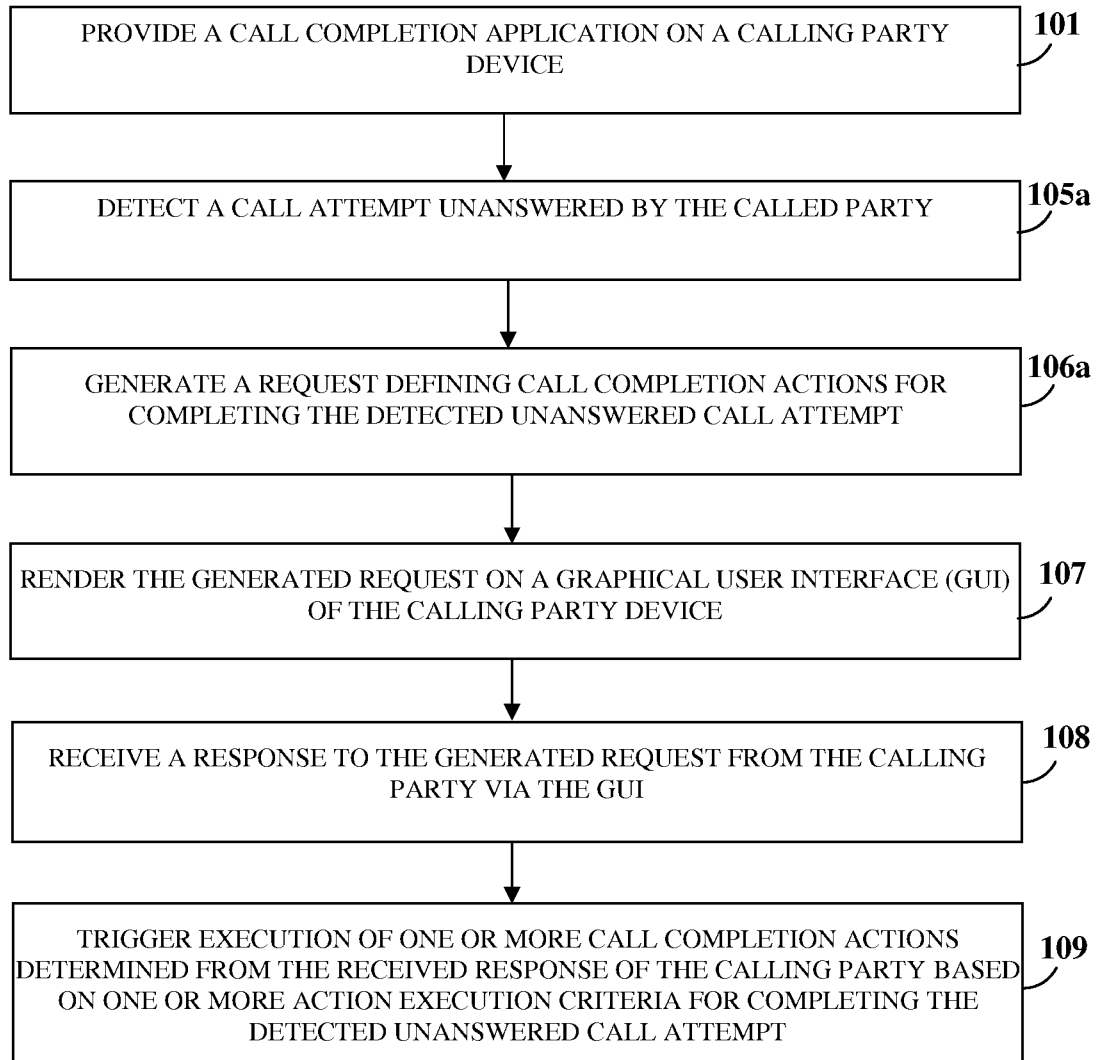
Zip

Country

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**FIG. 1A**

**FIG. 1B**

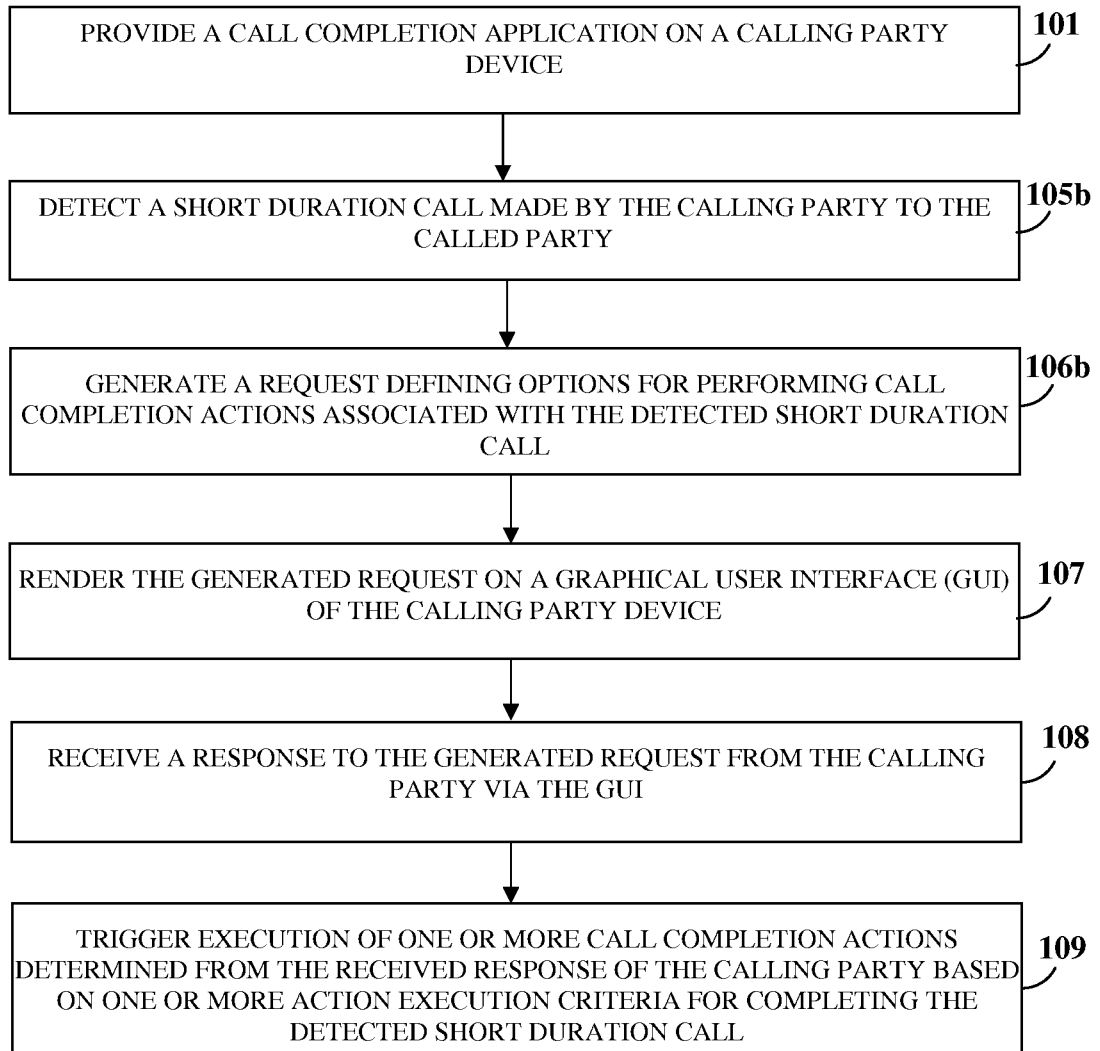


FIG. 1C

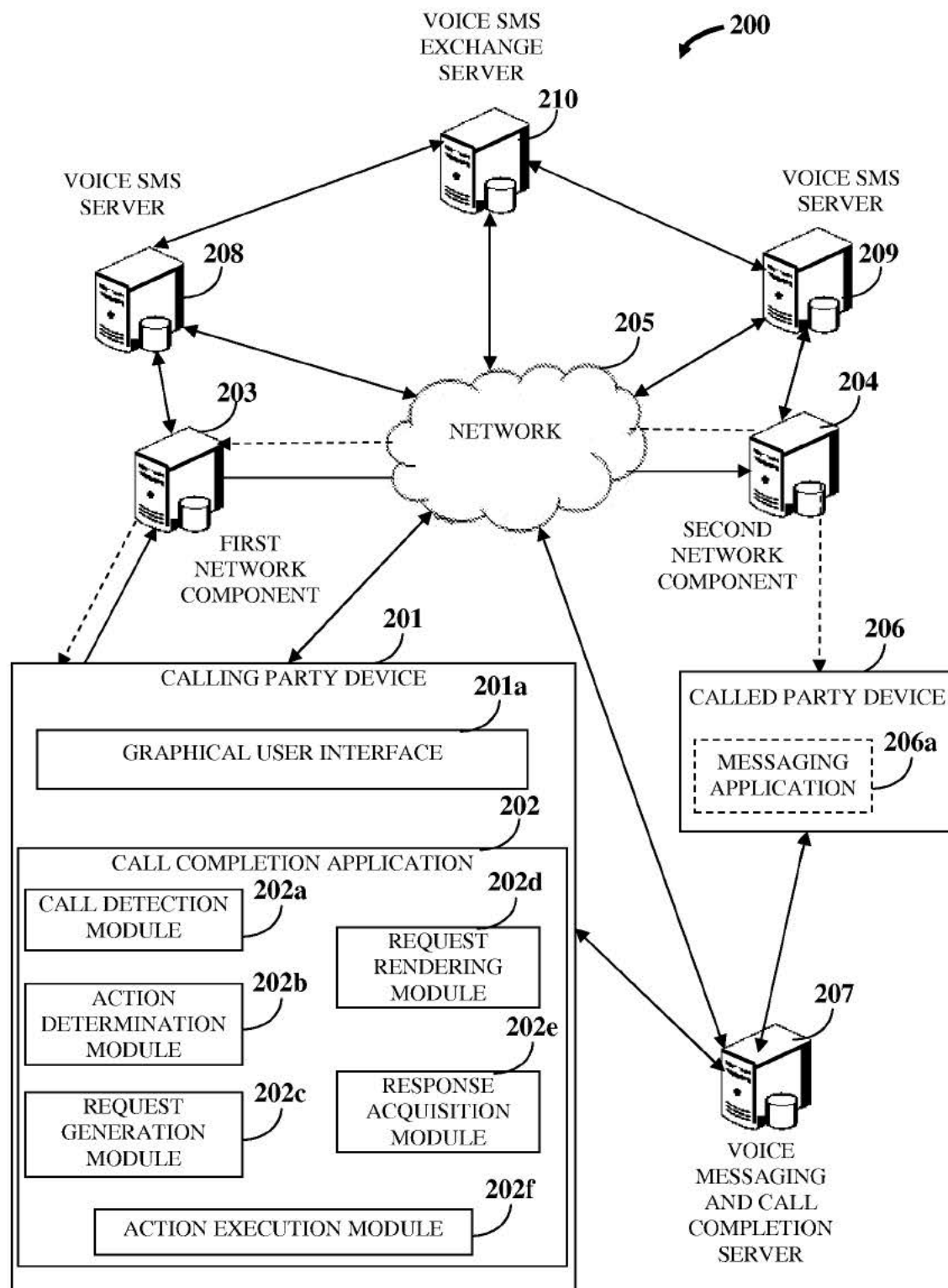


FIG. 2

DETECTION OF AN UNANSWERED CALL ATTEMPT ON A CALLING PARTY DEVICE WITH AN ANDROID™ OPERATING SYSTEM COMPRISES THE FOLLOWING STEPS:

A. DETECT THE CHANGE OF STATE OF THE ANDROID CALLING PARTY DEVICE BETWEEN THE FOLLOWING: IDLE, OFF_HOOK, AND RINGING USING `onCallStateChanged()` TO REQUEST THE ANDROID™ OPERATING SYSTEM TO ISSUE A CALLBACK TO THE CALL COMPLETION APPLICATION ON THE ANDROID CALLING PARTY DEVICE.

B. THE FOLLOWING CHANGE OF CALL STATES RELATE TO INCOMING CALLS (MISSED OR ANSWERED) THAT CAN BE IGNORED BY THE CALL COMPLETION APPLICATION:

I. IDLE TO RINGING TO IDLE: AN INCOMING CALL THAT WAS NOT ANSWERED.

II. IDLE TO RINGING TO OFF_HOOK TO IDLE: AN INCOMING CALL THAT WAS ANSWERED AND THEN ENDED.

III. IDLE TO RINGING TO OFF_HOOK TO RINGING TO OFF_HOOK TO IDLE: AN INCOMING CALL THAT WAS ANSWERED FOLLOWED BY ANOTHER INCOMING CALL (WHICH MAY OR MAY NOT HAVE BEEN ANSWERED), AND FINALLY THE CALL ENDS.

C. THE FOLLOWING CHANGE OF CALL STATES REPRESENTS AN OUTGOING CALL ATTEMPT THAT MAY OR MAY NOT HAVE BEEN ANSWERED.

I. IDLE TO OFF_HOOK TO IDLE: AN OUTGOING CALL ATTEMPT.

II. TO DIFFERENTIATE BETWEEN CALLS THAT ARE ANSWERED AND UNANSWERED, FETCH THE LAST ENTRY FOR OUTGOING CALLS FROM THE CALL LOG USING THE `CallLog.getLastOutgoingCall`. CHECK THE VALUE OF THE “DURATION” FIELD IN THE CALL LOG. IF THE VALUE OF DURATION IS 0, IT INDICATES THAT THE CALL WAS NOT ANSWERED.

FIG. 3

DETECTION OF AN UNANSWERED CALL ATTEMPT ON A CALLING PARTY DEVICE WITH AN iOS® MOBILE OPERATING SYSTEM COMPRISES THE FOLLOWING STEPS:

A. REGISTER THE CALL COMPLETION APPLICATION WITH THE iOS USING `callEventHandler()` TO BE NOTIFIED ABOUT ANY CHANGE IN THE CALL STATE.

B. DETECT THE CHANGE OF STATE OF THE iOS CALLING PARTY DEVICE BETWEEN THE FOLLOWING: `CTCallStateDisconnected`, `CTCallStateDialing`, `CTCallStateConnected`, AND `CTCallStateIncoming`.

C. THE FOLLOWING CHANGE OF CALL STATES RELATE TO INCOMING CALLS (MISSED OR ANSWERED) THAT CAN BE IGNORED BY THE CALL COMPLETION APPLICATION:

I. `CTCallStateDisconnected` TO `CTCallStateIncoming` TO `CTCallStateDisconnected`: AN INCOMING CALL THAT WAS NOT ANSWERED.

II. `CTCallStateDisconnected` TO `CTCallStateIncoming` TO `CTCallStateConnected` TO `CTCallStateDisconnected`: AN INCOMING CALL THAT WAS ANSWERED AND THEN ENDED.

III. `CTCallStateDisconnected` TO `CTCallStateIncoming` TO `CTCallStateConnected` TO `CTCallStateIncoming` TO `CTCallStateConnected` TO `CTCallStateDisconnected`. AN INCOMING CALL THAT WAS ANSWERED, FOLLOWED BY ANOTHER INCOMING CALL (WHICH MAY OR MAY NOT HAVE BEEN ANSWERED), AND FINALLY THE CALL ENDS.

D. THE FOLLOWING CHANGE OF CALL STATES REPRESENTS AN OUTGOING CALL ATTEMPT THAT HAS BEEN ANSWERED.

I. `CTCallStateDisconnected` TO `CTCallStateDialing` TO `CTCallStateConnected` TO `CTCallStateDisconnected`: AN OUTGOING CALL THAT WAS ANSWERED.

E. THE FOLLOWING CHANGE OF CALL STATES REPRESENTS AN OUTGOING CALL ATTEMPT THAT HAS NOT BEEN ANSWERED.

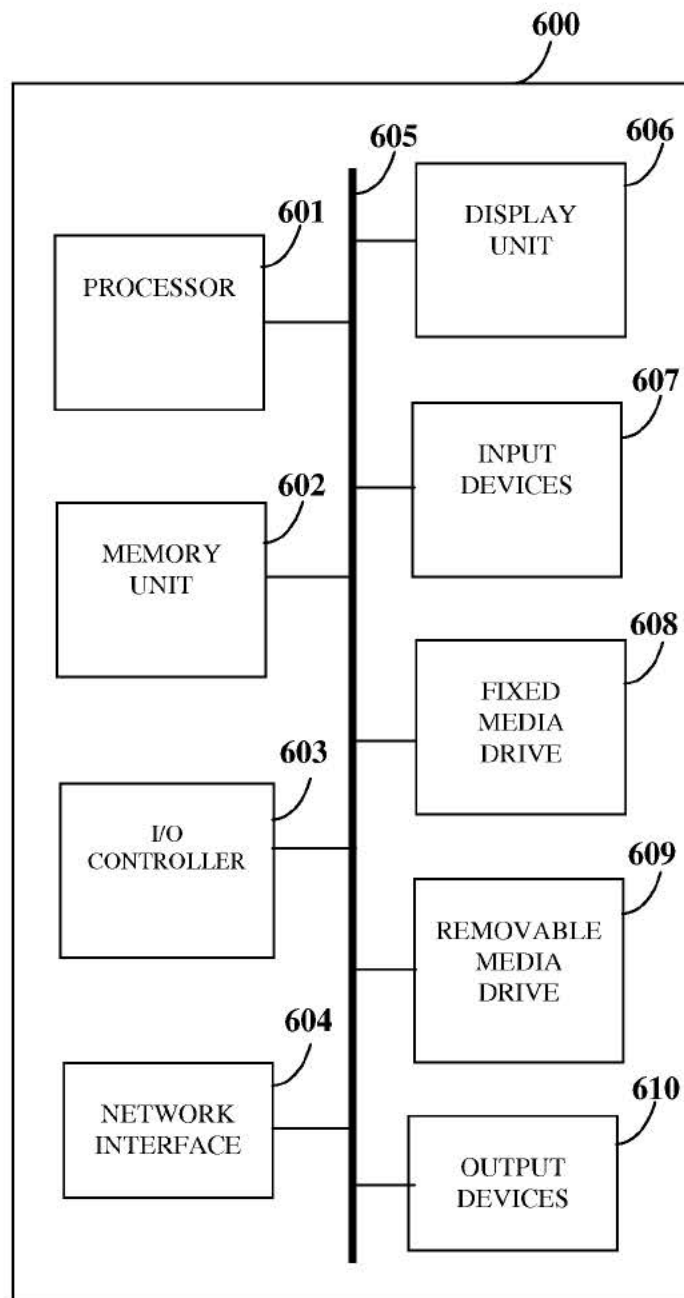
I. `CTCallStateDisconnected` TO `CTCallStateDialing` TO `CTCallStateDisconnected`: AN OUTGOING CALL ATTEMPT THAT WAS NOT ANSWERED.

FIG. 4

LIST OF CALL COMPLETION ACTIONS AVAILABLE TO THE
CALLING PARTY:

1. SEND A TEXT MESSAGE
2. SEND A VOICE MESSAGE
3. SEND A VIDEO MESSAGE
4. SEND A PRE-RECORDED MESSAGE
5. SEND A MISSED CALL ALERT
6. BE ALERTED WHEN THE CALLED PARTY IS AVAILABLE
7. ADD TO REMINDER
8. ADD TO CALENDAR
9. SEND A DIRECT MESSAGE ON TWITTER
10. POST TO THE CALLED PARTY'S FACEBOOK PAGE
11. SEND A PRIVATE CHAT MESSAGE TO THE CALLED
PARTY'S FACEBOOK IDENTITY

FIG. 5

**FIG. 6**

Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		Sender Driven Call Completion System		
First Named Inventor/Applicant Name:		Inderpal Singh Mumick		
Filer:		Ashok Tankha		
Attorney Docket Number:		KIRU-12NP-US		
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	70	70
Utility Search Fee	2111	1	300	300
Utility Examination Fee	2311	1	360	360
Pages:				
Claims:				
Claims in excess of 20	2202	14	40	560
Independent Claims in Excess of 3	2201	2	210	420
Miscellaneous-Filing:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1710

SENDER DRIVEN CALL COMPLETION SYSTEM

CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This application claims priority to and the benefit of provisional patent application number 61/737,274 titled “Sender Driven Call Completion System”, filed in the United States Patent and Trademark Office on December 14, 2012. The specification of the above referenced patent application is incorporated herein by reference in its entirety.

BACKGROUND

[0002] Call completion systems such as voicemail are widely prevalent in Europe, the United States of America (USA), etc., both within a network and out of the network and have been used for a number of applications, for example, for sending voice messages and voice related information in the case of incomplete calls. A conventional call completion system typically relies on a preconfigured establishment of a feature in the network of a called party to receive a message on behalf of the called party who is a recipient of a call. Consider an example where a calling party originates a voice call, or attempts to place a voice call to a called party. In a conventional call completion system, the phone number and the network of the called party is configured such that if a calling party attempts to establish a voice call with the called party and the called party does not accept the voice call, the calling party is offered an option to record and send a voice message, or alternatively, a short message service (SMS) message, etc., automatically to the called party indicating that the called party missed a call. However, this call completion service can operate only when the network is set up on behalf of the called party. The network needs to configure the call completion service on behalf of the called party to enable the calling party to send a message to the called party. The configuration of the call completion service is typically triggered manually by the called party or performed automatically by the network for the called party. That is, the configuration of the call completion service involves a configuration of a set of parameters corresponding

to a contact number of the called party before the calling party is offered an option to send a message.

[0003] Such conventional call completion solutions, for example, voicemail, are often insufficient since the calling party does not get to decide on whether a voice message can be sent to the called party, that is, the calling party is dependent on the called party having enabled a voice message service for receipt of voice messages. Furthermore, all message transactions need to be mandatorily performed via the network. Therefore, if the network fails to configure a message service for the called party, the called party is unable to receive a message from the calling party.

[0004] Hence, there is a long felt but unresolved need for a method and a system that complete an incomplete call made by a calling party to a called party by executing a call completion action, for example, setting up a reminder, transmitting voice messages, text messages, missed call alerts, notifications of a call attempt, etc., to the called party, etc., independent of a preconfigured call completion service on the called party's network or a called party device, and that provide a sender, that is, the calling party the option to drive or trigger execution of the call completion action.

SUMMARY OF THE INVENTION

[0005] This summary is provided to introduce a selection of concepts in a simplified form that are further disclosed in the detailed description of the invention. This summary is not intended to identify key or essential inventive concepts of the claimed subject matter, nor is it intended for determining the scope of the claimed subject matter.

[0006] The method and the system disclosed herein address the above stated need for completing an incomplete call made by a calling party to a called party by executing a call completion action, for example, one that leads to setting up a reminder, or one that leads to transmitting a voice message, a text message, a missed call alert, a notification of a call attempt, other calling party driven messages, etc., to the called party, etc.,

independent of a preconfigured call completion service on the called party's network or a called party device, and for providing a sender, that is, the calling party the option to drive or trigger execution of the call completion action. As used herein, the term "sender" refers to a user, for example, a calling party who initiates a call to a recipient or a called party and wants to communicate with the recipient. Also, as used herein, the phrase "called party device" refers to a communication device of a called party who is a recipient or an intended recipient of a call made by the calling party. The method and the system disclosed herein therefore allow the calling party to perform an action, for example, communicate with the called party in lieu of the initial incomplete voice call attempt made by the calling party. The method and the system disclosed herein enable a seamless execution of an action by the calling party, for example, an action that leads to a seamless transmission of a message from the calling party to the called party when the call is not completed, where the calling party is prompted automatically to perform an action, for example, transmit a message, when the call is not completed. Furthermore, the method and the system disclosed herein implement a call completion service without any dependence on the underlying network to support call completion for the called party, with the calling party equipped with sufficient information and capability to trigger execution of the action.

[0007] The method and the system disclosed herein, for example, enable transmission of a voice message by a calling party to a called party when a network component or a called party device is not configured to offer a call completion option to the calling party to leave a voice message. The method and the system disclosed herein provide a call completion application executable by at least one processor on a calling party device. As used herein, the phrase "calling party device" refers to a communication device of a calling party who originates a call or attempts to place a call to a called party. The calling party device and the called party device are, for example, mobile phones, smart phones, tablet computing devices, network enabled computing devices, etc. The call completion application on the calling party device detects an incomplete call made by the calling party to the called party. As used herein, the phrase "incomplete call" refers to a call made by a calling party to a called party, that is not received or completed by the called

party, or not connected to the called party device, for example, because the called party is busy, is in an out of coverage area, is unreachable, etc., or the called party device is switched off, or the call is not answered by the called party, or due to network congestion, etc. In an embodiment, the phrase “incomplete call” also refers to a call of a short duration, referred to as a “short duration call”, made by a calling party to a called party, that is considered incomplete as the duration of the call is too short for an intended communication to occur between the calling party and the called party. In an embodiment, the call completion application on the calling party device monitors the incomplete call as the incomplete call progresses from the incomplete call being initiated, the incomplete call being answered or rejected, and the incomplete call being terminated.

[0008] On detecting an incomplete call, the call completion application on the calling party device determines one or more of multiple call completion actions to be performed to complete the detected incomplete call. The call completion actions comprise, for example, setting a reminder to call back the called party at a configurable time, recording media data on the calling party device, transmitting the media data to the called party device, transmitting a missed call alert to the called party device, transmitting a notification of the detected incomplete call to the called party device, transmitting a notification on availability of the called party, transmitting the media data to a social networking platform, transmitting an automated message requesting the called party to call back the calling party when available, etc., and any combination thereof. As used herein, the term “media data” refers to a stored form of media, for example, sounds, images, videos, text data, etc., produced and recorded for the purpose of audibly listening to a reproduction of those sounds or for the purpose of viewing a reproduction of the images, videos, text data, etc. The media data comprise, for example, one of text data, audio data, video data, audiovisual data, image data, multimedia data, message data, etc., and any combination thereof. In an embodiment, the call completion application determines the call completion actions based on a duration of the detected incomplete call. In another embodiment, the call completion application determines the call completion actions based on one or more of configurable criteria. The configurable criteria comprise, for example, user configuration of the call completion application on

the calling party device, call settings configured on the calling party device, network characteristics, device characteristics, etc.

[0009] In another embodiment, the call completion application determines the call completion actions as follows: On detecting an incomplete call, the call completion application on the calling party device generates a request defining the call completion actions for completing the detected incomplete call. The call completion application renders the generated request on a graphical user interface (GUI) of the calling party device and receives a response to the generated request from the calling party via the GUI. That is, the calling party's call completion application determines the intent of the calling party for performing an appropriate action for communicating with the called party based on the received response. The response comprises, for example, a selection of one or more of the call completion actions to be executed for completing the detected incomplete call.

[0010] The call completion application on the calling party device triggers execution of one or more call completion actions determined based on the duration of the detected incomplete call, or determined based on the configurable criteria, or determined from the received response of the calling party, based on one or more action execution criteria for completing the detected incomplete call. For example, the calling party's call completion application transmits a message of the calling party to the called party device via the network based on one or more action execution criteria. The action execution criteria comprise, for example, configuration of call completion actions on the calling party device, a presence or an absence of a message box and/or a messaging application for receiving media data on a network account of the called party or on the called party device, a presence or an absence of a data connection from the calling party device to a network, a presence or an absence of a messaging service in a network component of the calling party, a presence or an absence of a messaging service in a network component of the called party, reach of the messaging service to deliver the media data to the network component of the called party or to the called party device, network options provided to the calling party device and the called party device by the network to which the calling

party device and the called party device are connected, call completion preferences configured by the call completion application on the calling party device, etc. In an embodiment, the call completion application determines the call completion action to be executed, including a mode of transmission of the media data, for example, a media message from the calling party device to the called party device via a network based on one or more of the action execution criteria.

[0011] Disclosed herein is a method for completing a call attempt made by a calling party to a called party. The call attempt is made by the calling party to contact the called party and establish a communications link with the called party. The call completion application on the calling party device monitors call attempts, manages multiple call completion actions selectable by the calling party, and manages completion of the call attempt for the calling party. The call completion application on the calling party device detects a call attempt unanswered by the called party. The call completion application generates a request defining the call completion actions for completing the detected unanswered call attempt. The call completion application renders the generated request on the GUI of the calling party device and receives a response to the generated request from the calling party via the GUI. The call completion application triggers execution of one or more call completion actions determined from the received response of the calling party based on one or more of the action execution criteria for completing the detected unanswered call attempt. In an embodiment, the call completion application on the calling party device determines the call completion action to be executed, including a mode of transmission of media data, for example, a media message from the calling party device to the called party device via the network based on the received response and one or more of the action execution criteria.

[0012] In an embodiment, the call completion application on the calling party device detects a call attempt answered by the called party and generates a request defining options for performing the call completion actions associated with the detected answered call attempt for completing the detected answered call attempt. In this embodiment, the answered call attempt is a short duration call interpreted by the call completion

application on the calling party device as an incomplete call. The options are, for example, based on the length or duration of the detected answered call attempt. The options comprise, for example, setting a reminder to call back the called party at a configurable time, recording media data on the calling party device, transmitting the media data to the called party device, transmitting a notification of the call attempt to the called party device, transmitting media data to a social networking platform, transmitting an automated message requesting the called party to call back the calling party when available, etc., and any combination thereof. The call completion application renders the generated request on the GUI of the calling party device and receives a response to the generated request from the calling party via the GUI. The response comprises a selection of one or more of the defined options. The call completion application triggers execution of the selected call completion actions determined from the received response of the calling party based on one or more of the action execution criteria for completing the detected answered call attempt. In this embodiment, the call completion application addresses answered calls of duration, for example, less than about 2 seconds, where no intended communication has occurred between the calling party and the called party. The call completion application considers these short duration answered calls as incomplete as the time of 2 seconds is too short to have a conversation and therefore the call completion application provides the option of completing the call to the calling party.

BRIEF DESCRIPTION OF THE DRAWINGS

[0013] The foregoing summary, as well as the following detailed description of the invention, is better understood when read in conjunction with the appended drawings. For the purpose of illustrating the invention, exemplary constructions of the invention are shown in the drawings. However, the invention is not limited to the specific methods and components disclosed herein. The description of a structure or a method step referenced by a numeral in a drawing carries over to the description of that structure or method step shown by that same numeral in any subsequent drawing herein.

[0014] FIG. 1A illustrates a method for completing an incomplete call made by a calling party to a called party.

[0015] FIG. 1B illustrates an embodiment of the method for completing an incomplete call made by a calling party to a called party.

[0016] FIG. 1C illustrates another embodiment of the method for completing an incomplete call made by a calling party to a called party.

[0017] FIG. 2 exemplarily illustrates a system for completing an incomplete call made by a calling party to a called party.

[0018] FIG. 3 exemplarily illustrates an algorithm executable by a processor of a calling party device with an Android™ operating system of Google Inc., configured to detect an unanswered call attempt made by a calling party using the calling party device to a called party.

[0019] FIG. 4 exemplarily illustrates an algorithm executable by a processor of a calling party device with an iOS® mobile operating system of Apple Inc., configured to detect an unanswered call attempt made by a calling party using the calling party device to a called party.

[0020] FIG. 5 exemplarily illustrates a menu displayed on a graphical user interface of a calling party device, showing a list of call completion actions available to a calling party for completing an incomplete call made by the calling party to a called party.

[0021] FIG. 6 exemplarily illustrates the architecture of a computer system employed by a call completion application for completing an incomplete call made by a calling party to a called party.

DETAILED DESCRIPTION OF THE INVENTION

[0022] FIG. 1A illustrates a method for completing an incomplete call made by a calling party to a called party. As used herein, the phrase “calling party” refers to a user who originates a call or attempts to place a call to a called party using a calling party device. Also, as used herein, the phrase “calling party device” refers to a communication device of the calling party. Also, as used herein, the phrase “called party” refers to a user who is a recipient or an intended recipient of a call made by the calling party. The method disclosed herein enables execution of an action, for example, setting up a reminder or transmission of a message by a calling party to a called party, etc., when a network component associated with the called party or a called party device is not configured for offering the calling party the option to send a message to the called party. As used herein, the phrase “called party device” refers to a communication device of the called party. Examples of the calling party device and the called party device are a mobile phone, a smart phone, a tablet computing device, a portable computing device, a personal digital assistant, a touch centric device, a network enabled computing device, etc. The calling party device and the called party device may also be hybrid devices that combine the functionality of multiple devices. Examples of a hybrid device comprise a cellular telephone that includes a media player functionality, a gaming device that includes a wireless communications capability, a cellular telephone that includes game and electronic mail (email) functions, a portable device that receives email, supports mobile telephone calls, has music player functionality, and supports web browsing, etc.

[0023] The method disclosed herein provides **101** a call completion application executable by at least one processor on a calling party device. The method disclosed herein is implemented using a computer system as disclosed in the detailed description of FIG. 6. The call completion application is a software application that can be downloaded and implemented on the calling party device. A sender, that is, the calling party initiates a call to a recipient, that is, the called party, when the sender wants to communicate with the recipient. A first network component receives a call attempt from the calling party to contact the called party. The call attempt is made by the calling party to contact the called party and establish a communications link between the calling party and the called party.

The first network component routes the call attempt to a second network component for establishing a communications link between the calling party and the called party. As used herein, the terms “first network component” and “second network component” refer, for example, to a mobile switching center (MSC), a base station subsystem (BSS), a radio access network (RAN), a telephone exchange, a telephone switch, etc., serving the calling party and the called party respectively. The first network component is, for example, an originating switch or an originating mobile switching center (MSC) associated with the calling party. The second network component is, for example, a terminating switch or a terminating mobile switching center (MSC) associated with the called party. The second network component is either the same as the first network component or one of multiple network components excluding the first network component.

[0024] The call completion application on the calling party device detects **102** an incomplete call made by the calling party to the called party. In an embodiment, the incomplete call is a call made by a calling party to a called party, that is not received or completed by the called party, or not connected to the called party device due to the occurrence of one or more of multiple events comprising, for example, the called party being busy, the called party device being in an out of coverage area, the called party device being unreachable, the called party device being switched off, network congestion, the call not being answered by the called party, etc. In another embodiment, the incomplete call is a call of a short duration, also referred to as a “short duration call”, made by a calling party to a called party, that is considered incomplete as the duration of the call is too short for an intended communication to occur between the calling party and the called party. In an embodiment, the call completion application on the calling party device monitors the incomplete call as the incomplete call progresses from the incomplete call being initiated, the incomplete call being answered or rejected, and the incomplete call being terminated. The call completion application checks the status of the call that terminates as well as the duration of the call to determine if the call was incomplete or not. Consider an example where a calling party A calls a called party B. The called party device of called party B is not reachable and does not offer a message service. Consider an example where the calling party A uses a smart phone as the calling

party device. The call completion application on the smart phone of the calling party A monitors a disconnection of the call attempted by the calling party A and determines that the call attempt to called party B was unanswered. The call completion application monitors all disconnects by requesting an operating system of the calling party device to inform the call completion application whenever a call ends. The call completion application also considers short duration answered calls, for example, of a duration of less than about 2 seconds, where no intended communication has occurred between the calling party and the called party, as incomplete.

[0025] On detecting the incomplete call, the call completion application on the calling party device determines **103** one or more of multiple call completion actions to be performed to complete the detected incomplete call. The call completion actions comprise, for example, setting a reminder to call back the called party at a configurable time, recording media data on the calling party device, transmitting the media data to the called party device, transmitting a missed call alert to the called party device, transmitting a notification of the detected incomplete call to the called party device, transmitting a notification on availability of the called party, transmitting the media data to a social networking platform, transmitting an automated message requesting the called party to call back the calling party when available, etc., and any combination thereof. As used herein, the term “media data” refers to a stored form of media, for example, sounds, images, videos, text data, etc., produced and recorded for the purpose of audibly listening to a reproduction of those sounds or for the purpose of viewing a reproduction of the images, videos, text data, etc. The media data comprise, for example, one of text data, audio data, video data, audiovisual data, image data, multimedia data, message data, etc., and any combination thereof. The media data can be stored, for example, as a media clip, a media message, etc., or in any digital format. As used herein, the term “media message” refers to a message that can be recorded on the calling party device. The media message is, for example, a text message, or an audio message, or a video message, or an audiovisual message, or a picture message, or a multimedia message, etc., or any combination thereof.

[0026] In an embodiment, the call completion application on the calling party device determines the call completion actions based on a duration of the detected incomplete call. For example, for short duration calls, the call completion actions determined by the call completion application comprise, for example, setting a reminder to call the called party again, sending a text message to the called party, sending an automated message to the called party requesting the called party to call back the calling party when he/she is free, etc. In an embodiment, the call completion application determines the call completion actions based on one or more configurable criteria. The configurable criteria comprise, for example, user configuration of the call completion application on the calling party device, call settings configured on the calling party device, network characteristics, device characteristics, etc. In this embodiment, the calling party does not need to intervene or select a call completion action on a per call basis. For example, a calling party can configure sending a missed call alert to a called party device, each time a call to a specific number of the called party results in being unanswered due to the called party device being switched off. The call completion application automatically sends the missed call alert to the called party device, on detection of the incomplete call.

[0027] In another embodiment, the call completion application on the calling party device generates a request defining the call completion actions for completing the detected incomplete call. The call completion application defines the call completion actions to be provided to the calling party based on one or more of the configurable criteria comprising, for example, call settings configured on the calling party device by the calling party, network characteristics, device characteristics, etc. The call completion application, for example, generates a query message for the calling party, defining the call completion actions for completing the detected incomplete call using a message. The call completion application renders the generated request on a graphical user interface (GUI) of the calling party device. The GUI is, for example, a mobile based downloadable application interface. The call completion application receives a response to the generated request from the calling party via the GUI. The response comprises, for example, a selection of one or more of the call completion actions to be executed for completing the detected incomplete call. In an example, on detecting that there was an incomplete call to

called party B, the call completion application on the calling party device of calling party A generates a pop up message, “Do you want to send called party B a message?”, on the GUI of the calling party device. In another example, the call completion application on the calling party device of calling party A generates a pop up message with a menu of call completion actions, for example, “Do you want to send called party B (a) a voice message, (b) a text message, (c) a video message, (d) a missed call alert, (e) a pre-recorded message, or (f) set a reminder to call called party B?”

[0028] The call completion application on the calling party device triggers **104** execution of the call completion actions determined based on the duration of the detected incomplete call, or determined based on the configurable criteria, or determined from the received response of the calling party, based on one or more action execution criteria for completing the detected incomplete call. For example, the call completion application on the calling party device triggers preparation of recording and transmission of a message to the called party device, on receiving a confirmation response to the generated request from the calling party via the GUI. In another example, the call completion application, on detecting an incomplete call, generates a request defining an option to set a reminder for the calling party to call the called party again. The call completion application creates the reminder, for example, in the form of a calendar entry for the calling party to remind the calling party to call back the called party at a particular time. The action execution criteria are a set of factors that determine an appropriate method for executing a call completion action, for example, transmitting a message to the called party device. The action execution criteria comprise, for example, configuration of call completion actions on the calling party device, for example, the calling party’s mobile phone, a presence or an absence of a message box and/or a messaging application for receiving media data such as a message on a network account of the called party and/or on the called party device, a presence or an absence of a data connection from the calling party device to a data network, a presence or an absence of a messaging service in the network component of the calling party, a presence or an absence of a messaging service in the network component of the called party, reach of the messaging service to deliver the media data to the network of the called party or to the called party device, network options provided to

the calling party device and the called party device by the data network to which the calling party device and the called party device are connected, call completion preferences configured by the call completion application on the calling party device, etc.

[0029] In an embodiment, the call completion application on the calling party device determines a mode of transmission of the media data, for example, in the form of a voice message, a text message, a missed call alert, a notification of a call attempt, etc., from the calling party device to the called party device via a network based on the received response from the calling party and/or the action execution criteria. That is, the calling party's call completion application determines the appropriate mode and method of transmitting the message to the called party device of called party B. For example, the calling party's call completion application determines whether to transmit the message directly to the called party device or to transmit the message through a voice short message service (SMS) server. As used herein, the term "voice SMS" refers to a multimodal SMS service that allows exchange of text SMS messages integrated with voice content. The calling party's call completion application transmits the message recorded or selected by the calling party to the called party device via a network based on the determined mode of transmission of the message. In an example, the calling party's call completion application transmits a message recorded by the calling party to the called party device using a multimedia messaging service (MMS), an SMS, etc.

[0030] Consider an example where the call completion application on the calling party device is not able to distinguish between a scenario when the calling party was presented with an option of sending a message but decided not to send the message, and a scenario when the calling party did not have an option to complete the incomplete call. The calling party may be unable to complete the incomplete call, for example, due to an absence of a messaging configuration or a call completion service configuration on the called party device. In an embodiment, the method disclosed herein provisions a software application in the network in a cloud computing environment. As used herein, the phrase "cloud computing environment" refers to a processing environment comprising configurable computing physical and logical resources, for example, networks, servers, storage,

applications, services, etc., and data distributed over a network, for example, the internet. The cloud computing environment provides on-demand network access to a shared pool of the configurable computing physical and logical resources. The call completion application on the calling party device communicates with the provisioned software application at the end of an incomplete call, that is, subsequent to an unanswered call attempt. The software application in the network has access to multiple call completion servers, thereby allowing the software application in the network to access the messaging and call completion configuration, the network services subscribed by the called party, etc. The software application in the network retrieves the status of the call, that is, whether the calling party can send a message to the called party and transmits a notification message to the call completion application on the calling party device. The calling party's call completion application thereby determines an absence of a call completion service on the called party device and/or a failure of a configuration of the call completion service by the network component of the called party, on detecting the incomplete call. The call completion application on the calling party device accordingly generates call completion options for transmitting a message, for example, an option to "Send a voice message" or not to the called party. For example, if the call completion application on the calling party device determines that the calling party was offered an option to record and send a voice message to the called party as part of an unanswered call attempt, but decided against sending the voice message, then the call completion application may decide to offer the option to "Send a Text SMS", and not offer an option to "Send a Voice SMS".

[0031] In an embodiment, the call completion application on the calling party device triggers recording of the message on the calling party device. In an example, the call completion application on the calling party device may record a message locally on the calling party device, for example, a calling party's mobile phone, and transmit the recorded message to the called party using an over-the-top (OTT) data connection. As used herein, an "over-the-top" data transmission refers to transmission of data, for example, a voice message in a digitized format, independent of the control of the configured network components, from the calling party to the called party. In another

example, the call completion application on the calling party device delivers the voice message as an MMS message to the called party device. If the message is only text, the call completion application on the calling party device delivers the message as an SMS message to the called party device. In another example, the call completion application on the calling party device initiates the composition of a voice SMS call, for example, by dialing “*” followed by a phone number of the called party. In another example, the call completion application on the calling party device may record a message locally on the calling party device and transmit the recorded message to a voice SMS server in the network using the over-the-top (OTT) data connection. The voice SMS server in the network then delivers the message to the called party as a voice SMS. Consider an example where a calling party A has clicked on an option provided on the GUI of the calling party device affirming that calling party A wants to transmit a voice message to a called party B. The call completion application on the calling party device of calling party A determines the mode of transmission of a voice message as a local recording and OTT message delivery via the data network. The call completion application on the calling party device of calling party A then displays a notification message, for example, “Start speaking”, thereby allowing the calling party to drive or trigger the voice message service. Therefore, the call completion application on the calling party device determines the method by which a message needs to be transmitted to the called party device and transmits the message to the called party device accordingly.

[0032] In an embodiment, the called party device is provided with a local message store for storing incoming messages, for example, as part of a voice messaging application installed on the called party device. In another embodiment, the messages for the called party are stored in a cloud based server to be contacted by the called party for retrieving the messages. In another embodiment, a voice SMS server of calling party A or called party B notifies called party B, for example, by an SMS text message indicating that the calling party A has transmitted a voice message, along with instructions for opening or accessing the voice message. In another embodiment, the voice SMS server of calling party A or called party B initiates delivery of messages to called party B, for example, by an outbound delivery (OBD) mechanism. As used herein, the term “outbound delivery

mechanism” refers to a method by which a messaging service, for example, a voice messaging service delivers messages to a called party device by initiating a voice call from the call completion application on the calling party device to the called party, and playing the messages, for example, voice messages during the voice call after the called party has answered the call. The called party does not have to dial a number to initiate a call to access the messages.

[0033] FIG. **1B** illustrates an embodiment of the method for completing an incomplete call made by a calling party to a called party. In this embodiment, the incomplete call is an unanswered call. The method disclosed herein is implemented using a computer system as disclosed in the detailed description of FIG. **6**. The call completion application is provided **101** on a calling party device as disclosed in the detailed description of FIG. **1A**. The call completion application monitors call attempts, manages multiple call completion actions selectable by the calling party, and manages the completion of the call attempt for the calling party. The call completion application on the calling party device detects **105a** a call attempt unanswered by the called party. As used herein, the term “unanswered call attempt” refers to a call attempt made by a calling party to a called party, that is not received or answered by the called party, or not connected to a called party device due to an occurrence of, for example, a busy signal, an out of coverage signal, an unreachable signal, a switched off signal, network congestion, an unanswered signal from the called party, etc. The call completion application detects the unanswered call attempt, for example, when the called party device is switched off or when the called party is busy or on another call, or when the called party is not answering. The call completion application generates **106a** a request defining the call completion actions for completing the detected unanswered call attempt. The call completion application renders **107** the generated request on the graphical user interface (GUI) of the calling party device. The call completion application receives **108** a response to the generated request from the calling party via the GUI. The call completion application triggers **109** execution of one or more call completion actions determined from the received response of the calling party based on one or more of the action execution criteria disclosed in the detailed description of FIG. **1A**, for completing the detected unanswered call attempt. In

an embodiment, the call completion application determines the call completion action to be executed, including a mode of transmission of a media message from the calling party device to the called party device via a network based on the received response and one or more of the action execution criteria.

[0034] FIG. 1C illustrates another embodiment of the method for completing an incomplete call made by a calling party to a called party. In this embodiment, the incomplete call is a short duration call that does not enable an intended communication to occur between the calling party and the called party. The method disclosed herein is implemented using a computer system as disclosed in the detailed description of FIG. 6. The call completion application is provided **101** on the calling party device as disclosed in the detailed description of FIG. 1A. The call completion application on the calling party device detects **105b** a call attempt answered by the called party, that is, a short duration call made by the calling party to the called party. The call completion actions for completing the short duration call is similar to those for an unanswered call with some variations, for example, in the message conveyed to the called party or the reason for the incomplete call displayed on the calling party device. The call completion application generates **106b** a request defining options for performing the call completion actions associated with the detected short duration call for completing the detected short duration call. The options are, for example, based on the length or duration of the detected short duration call. The options comprise, for example, setting a reminder to call back the called party at a configurable time, recording media data on the calling party device, transmitting the media data to the called party device, transmitting a notification of the call attempt to the called party device, transmitting media data to a social networking platform, transmitting an automated message requesting the called party to call back the calling party when available, etc., and any combination thereof. The call completion application renders **107** the generated request on the graphical user interface (GUI) of the calling party device. For example, for short duration calls, the call completion application displays a message such as “Looks like the called party could not talk to you at this time. Do you want to send a message to the called party?”, or “That was a short call. Do you want to send a pre-recorded message to the called party?”, or “Was there a problem with

this call? Do you want to send (a) a voice message, (b) a text message, (c) a video message, (d) a pre-recorded message, or (e) set a reminder to call the called party?”, etc., on the calling party device. The call completion application receives **108** a response to the generated request from the calling party via the GUI. The response comprises a selection of one or more of the defined options. The call completion application triggers **109** execution of one or more of the call completion actions determined from the received response of the calling party based on one or more of the action execution criteria disclosed in the detailed description of FIG. **1A**, for completing the detected short duration call. For example, the call completion application transmits a message to the called party device via the network, based on the determined mode of transmission of the message and one or more of the action execution criteria. In this embodiment, the call completion application addresses answered calls of duration, for example, of less than about 2 seconds, where no intended communication has occurred between the calling party and the called party. The call completion application considers these short duration answered calls as incomplete.

[0035] FIG. **2** exemplarily illustrates a system **200** for completing an incomplete call made by a calling party to a called party. The system **200** disclosed herein enables transmission of a message, for example, a voice message, a text message, a missed call alert, a notification of a call attempt, etc., from a calling party device **201** to a called party device **206**, when a second network component **204** associated with the called party or the called party device **206** is not configured for offering the calling party an option to complete the incomplete call. The calling party device **201** comprises a non-transitory computer readable storage medium configured to store the call completion application **202** and at least one processor communicatively coupled to the non-transitory computer readable storage medium. As used herein, the term “non-transitory computer readable storage medium” refers to all computer readable media, for example, non-volatile media such as optical discs or magnetic disks, volatile media such as a register memory, a processor cache, etc., and transmission media such as wires that constitute a system bus coupled to the processor, except for a transitory, propagating signal. The processor is configured to execute the call completion application **202** on the calling party device **201**.

[0036] The calling party device **201** is associated with a first network component **203** and the called party device **206** is associated with a second network component **204**. The first network component **203** is, for example, an originating mobile switching center (MSC). The second network component **204** is, for example, a terminating MSC. The calling party device **201**, the called party device **206**, and their associated network components **203** and **204** communicate with a network **205**. The network **205** is a telephone network and/or a data network that connects exchanges, switches, etc. The network **205** is, for example, a wired telephony network, a wireless network, a voice call network, a signaling system number 7 (SS7) network, an internet protocol data network, another data network, etc. The calling party makes a call attempt to contact the called party and establish a communications link between the calling party and the called party. When the calling party attempts to make a call using the calling party device **201**, for example, a mobile phone, a smart phone, a personal digital assistant (PDA), a tablet computing device, etc., to contact the called party, the calling party device **201** of the calling party connects to the network **205** via the first network component **203**.

[0037] The calling party device **201** of the calling party connects to the first network component **203**. The called party device **206**, for example, a mobile phone, a smart phone, a personal digital assistant (PDA), a tablet communication device, etc., of the called party connects to the second network component **204**. The first network component **203** serves the calling party and receives the call attempt from the calling party. The first network component **203** routes a call made by the calling party to an appropriate destination based on a dialed number via the network **205**. The first network component **203** routes the received call attempt to the second network component **204** via the network **205** for establishing the communications link between the calling party and the called party. The second network component **204** receives the call attempt from the first network component **203** via the network **205** and in turn routes the received call attempt to the called party device **206**. If the second network component **204** detects that the call attempt is incomplete, for example, unanswered by the called party device **206**, the second network component **204** redirects the unanswered call attempt to the first

network component **203** via the network **205**. The first network component **203** then redirects the unanswered call attempt to the call completion application **202** on the calling party device **201**.

[0038] A voice messaging and call completion server **207** is disposed between the calling party device **201** and the called party device **206** via the network **205**. The voice messaging and call completion server **207** facilitates transmission of messages between the calling party device **201** and the called party device **206** during the event of an unanswered call attempt or a short duration call. The voice messaging and call completion server **207** stores the messages in the form of a queue. The storage of the message depends on the method used to deliver the message. In an embodiment, the voice messaging and call completion server **207** communicates with voice short message service (SMS) servers **208** and **209** and a voice SMS exchange server **210** via the network **205** for delivering messages using a voice short message service (SMS). For example, if the message is delivered using a voice SMS, a voice SMS server **208** associated with the calling party stores the message in the first network component **203** of the calling party's carrier. If the carrier of the calling party is the same as the carrier of the called party, then there is a single voice SMS server **208**. In another example, where the carrier of the calling party is different from the carrier of the called party, and if the carriers of the calling party and the called party are using a voice SMS exchange service via the voice SMS exchange server **210**, a voice SMS server **209** associated with the called party stores the message in the second network component **204** of the called party's carrier. The called party can call a short code or a number to listen to the message.

[0039] In another example, an outbound delivery mechanism of the voice SMS server **208** delivers the message to the called party. The called party accesses the messages sent by the calling party from the voice SMS server **208** if there is no voice SMS exchange service, or from the voice SMS server **209** in case there is a voice SMS exchange service. In another example, if the called party has a smart phone with a smart phone client installed in the called party's smart phone, then, in an embodiment, the call completion application **202** can directly deliver the message to the called party using the voice

messaging and call completion server **207** but bypassing the voice SMS server **208**. In another embodiment, the message is first routed to a cloud based voice messaging server and the message is stored on the voice messaging server in the cloud computing environment. A copy of the message may then be downloaded by the client on the called party device **206** using a messaging application **206a**. The messaging application **206a** is compatible with the call completion application **202** on the calling party device **201** and the voice messaging and call completion server **207**. If the calling party sends a text message or a missed call alert, the SMS message or the text message sent over the network **205**, is sent to the called party device **206**. The method and the system **200** disclosed herein therefore notify the called party about the message sent by the calling party, for example, via a text SMS message or a text message over a data network.

[0040] The call completion application **202** on the calling party device **201** comprises a call detection module **202a**, an action determination module **202b**, and an action execution module **202f**. The call detection module **202a** detects an incomplete call, for example, an unanswered call, a short duration call, etc., made by the calling party to the called party. The call detection module **202a** further monitors the incomplete call on the calling party device **201** as the incomplete call progresses from the incomplete call being initiated, the incomplete call being answered or rejected, and the incomplete call being terminated. Furthermore, in an embodiment, the call detection module **202a** of the call completion application **202** on the calling party device **201**, in communication with a software application in the network **205**, determines an absence of a message service on the called party device **206** and/or a failure of a configuration of the message service by the second network component **204** associated with the called party, on detecting an incomplete call.

[0041] The action determination module **202b** determines one or more of multiple call completion actions to be performed to complete the detected incomplete call. In an embodiment, the action determination module **202b** determines one or more of multiple call completion actions based on a duration of the detected incomplete call. In another embodiment, the action determination module **202b** determines one or more of multiple

call completion actions based on one or more of configurable criteria comprising, for example, user configuration of the call completion application **202** on the calling party device **201**, call settings configured on the calling party device **201**, network characteristics, device characteristics, etc. The action execution module **202f** triggers execution of the determined call completion actions based on one or more of the action execution criteria for completing the detected incomplete call. The action execution module **202f** further determines a mode of transmission of media data from the calling party device **201** to the called party device **206** via the network **205** based on one or more of the action execution criteria.

[0042] The call completion application **202** further comprises a request generation module **202c**, a request rendering module **202d**, and a response acquisition module **202e**. The request generation module **202c** generates a request defining call completion actions for completing the detected incomplete call. The request rendering module **202d** renders the generated request on a graphical user interface (GUI) **201a** of the calling party device **201**. The response acquisition module **202e** receives a response to the generated request from the calling party via the GUI **201a**. The action execution module **202f** triggers the execution of the call completion actions determined from the received response of the calling party based on one or more of the action execution criteria for completing the detected incomplete call. If the call completion action determined from the received response is the transmission of a message, the action execution module **202f** triggers transmission of the message recorded by the calling party to the called party device **206** via the network **205** based on the determined mode of transmission of the message and one or more of the action execution criteria as disclosed in the detailed description of FIG. 1A.

[0043] In an embodiment, the call detection module **202a** detects a call attempt unanswered by the called party. In this embodiment, the request generation module **202c** generates a request defining call completion actions for completing the detected unanswered call attempt. In another embodiment, the call detection module **202a** detects a call attempt answered by the called party, that is, a short duration call. In this

embodiment, the request generation module **202c** generates a request defining options for performing call completion actions associated with the detected short duration call for completing the detected short duration call. The request rendering module **202d** renders the generated request on the GUI **201a** of the calling party device **201**. The response acquisition module **202e** receives a response to the generated request from the calling party via the GUI **201a**. The action execution module **202f** triggers execution of one or more of the call completion actions determined from the received response of the calling party based on one or more of the action execution criteria for completing the detected unanswered call attempt or the detected short duration call.

[0044] In an embodiment, the voice messaging and call completion server **207** manages the transmission of the message recorded by the calling party to the called party device **206** via the network **205**. The voice messaging and call completion server **207** stores all the voice messages, missed call alerts, other messages, etc., exchanged between the calling party device **201** and the called party device **206** in one or more databases. The voice messaging and call completion server **207** accepts messages sent by the call completion application **202** on the calling party device **201** and delivers the messages to the called party device **206**. The mechanism used for delivery of the messages may vary based on the type of message, for example, a voice message, a text message, a missed call alert, etc., as well as the capability and the connectivity of the called party device **206**, for example, based on a presence or an absence of a message box for receiving a message from the calling party, a presence or an absence of data connectivity on the called party device **206**, etc.

[0045] FIG. 3 exemplarily illustrates an algorithm executable by a processor of a calling party device **201** with an Android™ operating system of Google Inc., configured to detect an unanswered call attempt made by a calling party using the calling party device **201** to a called party. The call completion application **202** provided on the calling party device **201**, exemplarily illustrated in FIG. 2, detects the unanswered call attempt. The call completion application **202** monitors the call attempt as the call attempt progresses from a call being initiated, a call being answered or rejected, and a call ending.

The call completion application **202** checks a status of the call that ends and a duration of the call to determine whether the call is incomplete. The call completion application **202** detects a change of state of the call between the following: “idle”, “off_hook”, and “ringing” using a function “onCallStateChanged()” to request the Android™ operating system to issue a callback to the call completion application **202**. The call completion application **202** may ignore the change of call states, for example, ““idle” to “ringing” to “idle””, ““idle” to “ringing” to “off_hook” to “idle””, and ““idle” to “ringing” to “off_hook” to “ringing” to “off_hook” to “idle””, related to incoming calls that may be missed calls or answered calls. A change of state of the call from “idle” to “ringing” to “idle” represents an incoming call that was not answered. A change of state of the call from “idle” to “ringing” to “off_hook” to “idle” represents an incoming call that was answered and then ended. A change of state of the call from “idle” to “ringing” to “off_hook” to “ringing” to “off_hook” to “idle” represents an incoming call that was answered, followed by another incoming call which may or may not have been answered, and then ended. The change of call states, for example, ““idle” to “off_hook” to “idle”” represent an outgoing call attempt that may or may not have been answered. A change of state of the call from “idle” to “off_hook” to “idle” represents an outgoing call attempt. The call completion application **202** determines the difference between an answered call attempt and an unanswered call attempt by fetching the last entry for outgoing calls from a call log using a function “Calllog.getLastOutgoingCall”. The call completion application **202** checks the value of the “duration” field in the call log. A value of 0 in the “duration” field indicates that the call was not answered. A value of 2 or more in the “duration” field indicates that the call was answered. A value greater than 0 but less than 2 in the “duration” field represents a short duration call that is also considered as an incomplete call by the call completion application **202**.

[0046] FIG. 4 exemplarily illustrates an algorithm executable by a processor of a calling party device **201** with an iOS® mobile operating system of Apple Inc., configured to detect an unanswered call attempt made by a calling party using the calling party device **201** to a called party. The call completion application **202** provided on the calling party device **201** as exemplarily illustrated in FIG. 2, detects the unanswered call attempt.

The call completion application **202** monitors the call attempt as the call attempt progresses from a call being initiated, the call being answered or rejected, and the call ending. The call completion application **202** checks the status of the calls that end and their duration to determine if the calls are incomplete or not. The call completion application **202** is registered with iOS[®] using a function “callEventHandler()” to be notified about any change in the call state. The call completion application **202** detects a change of state of the call from the following: “CTCallStateDisconnected”, “CTCallStateDialing”, “CTCallStateConnected”, and “CTCallStateIncoming”. The call completion application **202** may ignore the change of call states, for example, ““CTCallStateDisconnected” to “CTCallStateIncoming” to “CTCallStateDisconnected””, ““CTCallStateDisconnected” to “CTCallStateIncoming” to “CTCallStateConnected” to “CTCallStateDisconnected””, and “CTCallStateDisconnected” to “CTCallStateIncoming” to “CTCallStateConnected” to “CTCallStateIncoming” to “CTCallStateConnected” to “CTCallStateDisconnected”. A change of state of the call from “CTCallStateDisconnected” to “CTCallStateIncoming” to “CTCallStateDisconnected” represents an incoming call that was not answered. A change of state of the call from “CTCallStateDisconnected” to “CTCallStateIncoming” to “CTCallStateConnected” to “CTCallStateDisconnected” represents an incoming call that was answered and then ended. A change of state of the call from “CTCallStateDisconnected” to “CTCallStateIncoming” to “CTCallStateConnected” to “CTCallStateIncoming” to “CTCallStateConnected” to “CTCallStateDisconnected” represents an incoming call that was answered, followed by another incoming call which may or may not have been answered, and then ended. A change of state of the call from “CTCallStateDisconnected” to “CTCallStateDialing” to “CTCallStateConnected” to “CTCallStateDisconnected” represents an outgoing call that was answered. A change of state of the call from “CTCallStateDisconnected” to “CTCallStateDialing” to “CTCallStateDisconnected” represents an outgoing call that was not answered.

[0047] For purposes of illustration, the detailed description of FIGS. **3-4** refers to example algorithms for detecting an unanswered call attempt on a calling party device **201** with an Android[™] operating system of Google Inc., and on a calling party device **201**

with an iOS[®] mobile operating system of Apple Inc.; however the scope of the method and the system **200** disclosed herein is not limited to detection of an unanswered call attempt on a calling party device **201** with the Android[®] operating system or the iOS[®] mobile operating system, as disclosed in the detailed description of FIGS. **3-4**, but may be extended to include other algorithms for detecting an unanswered call attempt or a short duration call on different communication devices with different operating systems. Furthermore, the scope of the method and the system **200** disclosed herein is extended to include different methods for detecting incomplete calls based on the calling party's inputs and preferences.

[0048] FIG. **5** exemplarily illustrates a menu displayed on a graphical user interface (GUI) **201a** of a calling party device **201** exemplarily illustrated in FIG. **2**, showing a list of call completion actions available to a calling party for completing an incomplete call made by the calling party to a called party. The list of call completion actions comprises, for example, "Send a Text Message", "Send a Voice Message", "Send a Video Message", "Send a Pre-recorded Message", "Send a Missed Call Alert", "Be Alerted when the Called Party is Available", "Add to Reminder", "Add to Calendar", "Send a Direct Message on Twitter[®]", "Post to the Called Party's Facebook[®] Page", "Send a Private Chat Message to the Called Party's Facebook[®] Identity", etc. The call completion application **202**, exemplarily illustrated in FIG. **2**, generates a pop up message with a menu of the call completion actions on the GUI **201a** of the calling party device **201**. The call completion application **202** selectively displays one or more of the call completion actions based on factors such as the reason for the call attempt not being completed such as no reply, busy, switched off, etc., the reason the call attempt was not answered, the call completion actions' settings selected by the calling party, and based on the network and device characteristics of the calling party device **201**. Moreover, the call completion application **202** displays the "Post to the Called Party's Facebook[®] Page" option and/or the "Send a Private Chat Message to the Called Party's Facebook[®] Identity" option on the GUI **201a** of the calling party device **201** only if both the calling party and the called party have an identity on Facebook[®] of Facebook, Inc., and the calling party's Facebook[®] identity has permission to post to the called party's Facebook[®] page" and/or to send a

private chat message to the called party's Facebook[®] identity. Similarly, the call completion application **202** displays the "Send a Direct Message to Twitter[®]" option on the GUI **201a** of the calling party device **201** only if both the calling party and the called party have an identity on Twitter[®] of Twitter, Inc., and the calling party's Twitter[®] identity has the permission to send a direct message to the called party's Twitter[®] identity. If the called party's carrier has the provision for alerting the calling party when the called party is available, then the call completion application **202** displays the "Be Alerted when the Called Party is Available" option on the GUI **201a** of the calling party device **201**. If the call was incomplete because the called party chose not to answer the call or rejected the call, then the call completion application **202** does not display the "Be alerted when the Called Party is available" option on the GUI **201a** of the calling party device **201**.

[0049] FIG. 6 exemplarily illustrates the architecture of a computer system **600** employed by the call completion application **202** for completing an incomplete call made by a calling party to a called party. The calling party device **201** exemplarily illustrated in FIG. 2 employs the architecture of the computer system **600** exemplarily illustrated in FIG. 6. The computer system **600** is programmable using a high level computer programming language. The computer system **600** may be implemented using programmed and purposeful hardware. The call completion application **202** on the calling party device **201** communicates with the called party device **206** via the network **205**, for example, a short range network or a long range network.

[0050] The computer system **600** comprises, for example, a processor **601**, a non-transitory computer readable storage medium such as a memory unit **602** for storing programs and data, an input/output (I/O) controller **603**, a network interface **604**, a data bus **605**, a display unit **606**, input devices **607**, a fixed media drive **608**, output devices **610**, etc. The computer system **600** may optionally comprise a removable media drive **609** for receiving removable media. The processor **601** refers to any one or more microprocessors, central processing unit (CPU) devices, finite state machines, computers, microcontrollers, digital signal processors, logic, a logic device, an electronic circuit, an

application specific integrated circuit (ASIC), a field-programmable gate array (FPGA), a chip, etc., or any combination thereof, capable of executing computer programs or a series of commands, instructions, or state transitions. The processor **601** may also be implemented as a processor set comprising, for example, a general purpose microprocessor and a math or graphics co-processor. The processor **601** is selected, for example, from the Intel[®] processors such as the Itanium[®] microprocessor or the Pentium[®] processors, Advanced Micro Devices (AMD[®]) processors such as the Athlon[®] processor, UltraSPARC[®] processors, microSPARC[®] processors, hp[®] processors, International Business Machines (IBM[®]) processors such as the PowerPC[®] microprocessor, the MIPS[®] reduced instruction set computer (RISC) processor of MIPS Technologies, Inc., RISC based computer processors of ARM Holdings, Motorola[®] processors, Qualcomm[®] processors, etc. The calling party device **201** is not limited to a computer system **600** employing a processor **601**. The computer system **600** may also employ a controller or a microcontroller. The processor **601** executes the modules, for example, **202a**, **202b**, **202c**, **202d**, **202e**, **202f**, etc., of the call completion application **202**.

[0051] The memory unit **602** is used for storing programs, applications, and data. For example, the call detection module **202a**, the action determination module **202b**, the request generation module **202c**, the request rendering module **202d**, the response acquisition module **202e**, the action execution module **202f**, etc., of the call completion application **202** are stored in the memory unit **602** of the computer system **600**. The memory unit **602** is, for example, a random access memory (RAM) or another type of dynamic storage device that stores information and instructions for execution by the processor **601**. The memory unit **602** also stores temporary variables and other intermediate information used during execution of the instructions by the processor **601**. The computer system **600** further comprises a read only memory (ROM) or another type of static storage device that stores static information and instructions for the processor **601**. The I/O controller **603** controls input actions and output actions performed by the call completion application **202**.

[0052] The network interface **604** enables connection of the computer system **600** to the network **205**. For example, the calling party device **201** connects to the network **205** via the network interface **604**. In an embodiment, the network interface **604** is provided as an interface card also referred to as a line card. The network interface **604** comprises, for example, one or more of an infrared (IR) interface, an interface implementing Wi-Fi[®] of the Wireless Ethernet Compatibility Alliance, Inc., a universal serial bus (USB) interface, a FireWire[®] interface of Apple, Inc., an Ethernet interface, a frame relay interface, a cable interface, a digital subscriber line (DSL) interface, a token ring interface, a peripheral controller interconnect (PCI) interface, a local area network (LAN) interface, a wide area network (WAN) interface, interfaces using serial protocols, interfaces using parallel protocols, and Ethernet communication interfaces, asynchronous transfer mode (ATM) interfaces, a high speed serial interface (HSSI), a fiber distributed data interface (FDDI), interfaces based on transmission control protocol (TCP)/ internet protocol (IP), interfaces based on wireless communications technology such as satellite technology, radio frequency (RF) technology, near field communication, etc. The data bus **605** permits communications between the modules, for example, **202a**, **202b**, **202c**, **202d**, **202e**, **202f**, etc., of the call completion application **202**.

[0053] The display unit **606**, via the graphical user interface (GUI) **201a**, displays information, display interfaces, user interface elements such as text fields, checkboxes, text boxes, windows, selectable icons, etc., for rendering a generated request on the GUI **201a** of the calling party device **201**, for allowing a calling party to respond to the generated request, etc. The display unit **606** comprises, for example, a liquid crystal display, a plasma display, an organic light emitting diode (OLED) based display, etc. The input devices **607** are used for inputting data into the computer system **600**. The calling party uses the input devices **607** to provide a response to the generated request to the call completion application **202**, for example, by selecting call completion actions on the GUI **201a** for completing the detected incomplete call. The input devices **607** are, for example, a keyboard such as an alphanumeric keyboard, a microphone, a joystick, a pointing device such as a computer mouse, a touch pad, a light pen, a physical button, a touch

sensitive display device, a track ball, a pointing stick, any device capable of sensing a tactile input, etc.

[0054] Computer applications and programs are used for operating the computer system **600**. The programs are loaded onto the fixed media drive **608** and, in an embodiment, into the memory unit **602** of the computer system **600** via the removable media drive **609**. In an embodiment, the computer applications and programs may be loaded directly via the network **205**. Computer applications and programs are executed by double clicking a related icon displayed on the display unit **606** using one of the input devices **607**. The output devices **610** output the results of operations performed by the call completion application **202**. For example, the call completion application **202** renders and displays the generated request to the calling party using the output devices **610**.

[0055] The processor **601** executes an operating system, for example, the Linux[®] operating system, the Unix[®] operating system, any version of the Microsoft[®] Windows[®] operating system, the Mac OS of Apple Inc., the IBM[®] OS/2, VxWorks[®] of Wind River Systems, inc., QNX Neutrino[®] developed by QNX Software Systems Ltd., the Palm OS[®], the Solaris operating system developed by Sun Microsystems, Inc., the Android[™] operating system of Google, Inc., the Windows Phone[®] operating system of Microsoft Corporation, the BlackBerry[®] operating system of Research in Motion Limited, the iOS[®] operating system of Apple Inc., the Symbian[®] operating system of Symbian Foundation Limited, etc. The computer system **600** employs the operating system for performing multiple tasks. The operating system is responsible for management and coordination of activities and sharing of resources of the computer system **600**. The operating system further manages security of the computer system **600**, peripheral devices connected to the computer system **600**, and network connections. The operating system employed on the computer system **600** recognizes, for example, inputs provided by the calling party using one of the input devices **607**, the output display, files, and directories stored locally on the fixed media drive **608**, for example, a hard drive. The operating system on the computer system **600** executes different programs using the processor **601**. The processor **601** and

the operating system together define a computer platform for which application programs in high level programming languages are written.

[0056] The processor **601** of the computer system **600** employed by the call completion application **202** retrieves instructions defined by the call detection module **202a**, the action determination module **202b**, the request generation module **202c**, the request rendering module **202d**, the response acquisition module **202e**, the action execution module **202f**, etc., of the call completion application **202** for performing respective functions disclosed in the detailed description of FIG. 2. The processor **601** retrieves instructions for executing the modules, for example, **202a**, **202b**, **202c**, **202d**, **202e**, **202f**, etc., of the call completion application **202** from the memory unit **602**. A program counter determines the location of the instructions in the memory unit **602**. The program counter stores a number that identifies the current position in the program of each of the modules, for example, **202a**, **202b**, **202c**, **202d**, **202e**, **202f**, etc., of the call completion application **202**. The instructions fetched by the processor **601** from the memory unit **602** after being processed are decoded. The instructions are stored in an instruction register in the processor **601**. After processing and decoding, the processor **601** executes the instructions, thereby performing one or more processes defined by those instructions.

[0057] At the time of execution, the instructions stored in the instruction register are examined to determine the operations to be performed. The processor **601** then performs the specified operations. The operations comprise arithmetic operations and logic operations. The operating system performs multiple routines for performing a number of tasks required to assign the input devices **607**, the output devices **610**, and memory for execution of the modules, for example, **202a**, **202b**, **202c**, **202d**, **202e**, **202f**, etc., of the call completion application **202**. The tasks performed by the operating system comprise, for example, assigning memory to the modules, for example, **202a**, **202b**, **202c**, **202d**, **202e**, **202f**, etc., of the call completion application **202**, and to data used by the call completion application **202**, moving data between the memory unit **602** and disk units, and handling input/output operations. The operating system performs the tasks on request by the operations and after performing the tasks, the operating system transfers the

execution control back to the processor **601**. The processor **601** continues the execution to obtain one or more outputs. The outputs of the execution of the modules, for example, **202a**, **202b**, **202c**, **202d**, **202e**, **202f**, etc., of the call completion application **202** are displayed to the calling party on the display unit **606**.

[0058] For purposes of illustration, the detailed description refers to the call completion application **202** being run locally on the computer system **600**; however the scope of the method and the system **200** disclosed herein is not limited to the call completion application **202** being run locally on the computer system **600** via the operating system and the processor **601**, but may be extended to run remotely over the network **205** by employing a web browser and a remote server, a mobile phone, or other electronic devices. One or more portions of the computer system **600** may be distributed across one or more computer systems (not shown) coupled to the network **205**.

[0059] Disclosed herein is also a computer program product comprising a non-transitory computer readable storage medium that stores computer program codes comprising instructions executable by at least one processor **601** for completing an incomplete call made by the calling party to the called party. The computer program product comprises a first computer program code for detecting an incomplete call from a calling party device **201** to a called party device **206**, where the incomplete call is an unanswered call or a call that is not connected to the called party device **206**, or a short duration call; a second computer program code for determining one or more of multiple call completion actions to be performed to complete the detected incomplete call; and a third computer program code for triggering execution of the determined call completion actions based on one or more action execution criteria for completing the detected incomplete call. The computer program product disclosed herein further comprises a fourth computer program code for generating a request defining call completion actions for completing the detected incomplete call; a fifth computer program code for rendering the generated request on the GUI **201a** of the calling party device **201**; and a sixth computer program code for receiving a response to the generated request from the calling party device **201** via the GUI **201a**. The third computer program code triggers the

execution of the call completion actions determined from the received response based on one or more of the action execution criteria for completing the detected incomplete call.

[0060] The second computer program code determines one or more of the call completion actions to be performed to complete the detected incomplete call based on one or more of the configurable criteria comprising, for example, user configuration of the call completion application **202** on the calling party device **201**, etc. The computer program product disclosed herein further comprises a seventh computer program code for determining a mode of transmission of media data from the calling party device **201** to the called party device **206** via the network **205** based on the received response and one or more of the action execution criteria. The computer program product disclosed herein further comprises one or more additional computer program codes for completing an incomplete call made by the calling party to the called party. In an embodiment, a single piece of computer program code comprising computer executable instructions performs one or more steps of the method disclosed herein for completing the incomplete call made by the calling party to the called party.

[0061] The computer program codes comprising computer executable instructions are embodied on the non-transitory computer readable storage medium. The processor **601** of the computer system **600** retrieves these computer executable instructions and executes them. When the computer executable instructions are executed by the processor **601**, the computer executable instructions cause the processor **601** to perform the steps of the method for completing the incomplete call made by the calling party to the called party.

[0062] It will be readily apparent that the various methods, algorithms, and computer programs disclosed herein may be implemented on computer readable media appropriately programmed for computing devices. As used herein, the term “computer readable media” refers to non-transitory computer readable media that participate in providing data, for example, instructions that may be read by a computer, a processor or a similar device. Non-transitory computer readable media comprise all computer readable media, for example, non-volatile media, volatile media, and transmission media, except

for a transitory, propagating signal. Non-volatile media comprise, for example, optical discs or magnetic disks and other persistent memory volatile media including a dynamic random access memory (DRAM), which typically constitutes a main memory. Volatile media comprise, for example, a register memory, a processor cache, a random access memory (RAM), etc. Transmission media comprise, for example, coaxial cables, copper wire, fiber optic cables, modems, etc., including wires that constitute a system bus coupled to a processor, etc. Common forms of computer readable media comprise, for example, a floppy disk, a flexible disk, a hard disk, magnetic tape, a laser disc, a Blu-ray Disc[®], any magnetic medium, a compact disc-read only memory (CD-ROM), a digital versatile disc (DVD), any optical medium, a flash memory card, punch cards, paper tape, any other physical medium with patterns of holes, a random access memory (RAM), a programmable read only memory (PROM), an erasable programmable read only memory (EPROM), an electrically erasable programmable read only memory (EEPROM), a flash memory, any other memory chip or cartridge, or any other medium from which a computer can read.

[0063] The computer programs that implement the methods and algorithms disclosed herein may be stored and transmitted using a variety of media, for example, the computer readable media in a number of manners. In an embodiment, hard-wired circuitry or custom hardware may be used in place of, or in combination with, software instructions for implementation of the processes of various embodiments. Therefore, the embodiments are not limited to any specific combination of hardware and software. In general, the computer program codes comprising computer executable instructions may be implemented in any programming language. Some examples of programming languages that can be used comprise C, C++, C#, Objective-C, Java[®], JavaScript[®], Fortran, Ruby, Pascal, Perl[®], Python[®], Visual Basic[®], hypertext preprocessor (PHP), Microsoft[®].NET, etc. Other object-oriented, functional, scripting, and/or logical programming languages may also be used. The computer program codes or software programs may be stored on or in one or more mediums as object code. Various aspects of the method and the system disclosed herein may be implemented as programmed elements, or non-programmed elements, or any suitable combination thereof.

[0064] The present invention can be configured to work in a network environment comprising one or more computers that are in communication with one or more devices via a network. The computers may communicate with the devices directly or indirectly, via a wired medium or a wireless medium such as the Internet, a local area network (LAN), a wide area network (WAN) or the Ethernet, a token ring, or via any appropriate communications mediums or combination of communications mediums. Each of the devices comprises processors, some examples of which are disclosed above, that are adapted to communicate with the computers. In an embodiment, each of the computers is equipped with a network communication device, for example, a network interface card, a modem, or other network connection device suitable for connecting to a network. Each of the computers and the devices executes an operating system, some examples of which are disclosed above. While the operating system may differ depending on the type of computer, the operating system will continue to provide the appropriate communications protocols to establish communication links with the network. Any number and type of machines may be in communication with the computers.

[0065] The foregoing examples have been provided merely for the purpose of explanation and are in no way to be construed as limiting of the present invention disclosed herein. While the invention has been described with reference to various embodiments, it is understood that the words, which have been used herein, are words of description and illustration, rather than words of limitation. Further, although the invention has been described herein with reference to particular means, materials, and embodiments, the invention is not intended to be limited to the particulars disclosed herein; rather, the invention extends to all functionally equivalent structures, methods and uses, such as are within the scope of the appended claims. Those skilled in the art, having the benefit of the teachings of this specification, may affect numerous modifications thereto and changes may be made without departing from the scope and spirit of the invention in its aspects.

Electronic Acknowledgement Receipt

EFS ID:	17649284
Application Number:	14105158
International Application Number:	
Confirmation Number:	1097
Title of Invention:	Sender Driven Call Completion System
First Named Inventor/Applicant Name:	Inderpal Singh Mumick
Customer Number:	64188
Filer:	Ashok Tankha
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Attorney Docket Number:	KIRU-12NP-US
Receipt Date:	12-DEC-2013
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Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 1710
RAM confirmation Number	9220
Deposit Account	503291
Authorized User	TANKHA, ASHOK
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	KIRU-12NP-US_Application_Data_Sheet1.pdf	115027 0dbb853855516a3af730b04a2767cbc4b4593d0e	no	7
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
2	Oath or Declaration filed	KIRU-12NP-US_Declaration1.pdf	524418 f4e16558a6c801f358ace163596aa3844f7bce4d	no	3
Warnings:					
Information:					
3	Power of Attorney	KIRU-12NP-US_POA1.pdf	420565 e8b52c5eda92119e493470acd9840709904baa5b	no	2
Warnings:					
Information:					
4	Transmittal of New Application	KIRU-12NP-US_Transmittal1.pdf	279797 a66d6cb8503e4eeeb65fb6ebc2bb4452498f48fb	no	1
Warnings:					
Information:					
5		KIRU-12NP-US_Specification.pdf	189261 e48682faca1618d37067c29f64c653a0c00beeb2	yes	50
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	36	
	Claims		37	49	
	Abstract		50	50	
Warnings:					
Information:					
6	Drawings-only black and white line drawings	KIRU-12NP-US_Drawings.pdf	53292 f33975d87f370eb8fb42588bac43c48c389ad8e0	no	8
Warnings:					
Information:					

7	Fee Worksheet (SB06)	fee-info.pdf	37514 7be6ad72f896dcf925f2718b5fa6cbe01d95e009	no	2
Warnings:					
Information:					
Total Files Size (in bytes):				1619874	
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ABSTRACT

A method and a system for completing an incomplete call made by a calling party to a called party, provide a call completion application on a calling party device. The call completion application detects an incomplete call, which is a call that is not connected to a called party device or a short duration call that does not enable an intended communication to occur between the calling party and the called party. The call completion application determines one or more call completion actions, for example, setting a reminder, transmitting media data, etc., to be performed to complete the incomplete call, for example, based on user selections, a duration of the incomplete call, user configuration of the call completion application on the calling party device, etc. The call completion application triggers execution of the determined call completion actions based on one or more action execution criteria for completing the incomplete call.

CLAIMS

We claim:

1. A method for completing an incomplete call made by a calling party to a called party, comprising:

providing a call completion application executable by at least one processor on a calling party device;

detecting said incomplete call made by said calling party to said called party, by said call completion application on said calling party device;

determining one or more of a plurality of call completion actions to be performed by said call completion application on said calling party device to complete said detected incomplete call; and

triggering execution of said determined one or more of said call completion actions by said call completion application on said calling party device based on one or more of action execution criteria for said completion of said detected incomplete call.

2. The method of claim 1, wherein said incomplete call is a call that is not connected to a called party device due to occurrence of one or more of a plurality of events, wherein said events comprise said called party being busy, said called party device being in an out of coverage area, said called party device being unreachable, said called party device being switched off, network congestion, and said call not being answered by said called party.

3. The method of claim 1, wherein said incomplete call is a call of a short duration that does not enable an intended communication to occur between said calling party and said called party.
4. The method of claim 1, wherein said one or more of said call completion actions are determined by said call completion application based on a duration of said detected incomplete call.
5. The method of claim 1, wherein said action execution criteria comprise configuration of said call completion actions on said calling party device, one of a presence and an absence of one or more of a message box and a messaging application for receiving media data on one of a network account of said called party and a called party device, one of a presence and an absence of a data connection from said calling party device to a network, one of a presence and an absence of a messaging service in a network component of said called party, one of a presence and an absence of a messaging service in a network component of said calling party, reach of said messaging service to deliver said media data to one of said network component of said called party and said called party device, network options provided to said calling party device and said called party device by said network to which said calling party device and said called party device are connected, and call completion preferences configured by said call completion application on said calling party device.
6. The method of claim 1, wherein said determination of said one or more of said call completion actions to be performed by said call completion application on said calling party device to complete said detected incomplete call comprises:

generating a request defining said call completion actions for completing said detected incomplete call, by said call completion application on said calling party device;

rendering said generated request on a graphical user interface of said calling party device by said call completion application; and

receiving a response to said generated request from said calling party by said call completion application via said graphical user interface, wherein said call completion application is configured to trigger said execution of said one or more of said call completion actions determined from said received response of said calling party based on one or more of said action execution criteria for said completion of said detected incomplete call.

7. The method of claim 1, wherein said determination of said one or more of said call completion actions to be performed by said call completion application on said calling party device to complete said detected incomplete call is based on one or more of configurable criteria.
8. The method of claim 7, wherein said configurable criteria comprise user configuration of said call completion application on said calling party device, call settings configured on said calling party device, network characteristics, and device characteristics.
9. The method of claim 1, wherein said call completion actions comprise setting a reminder to call back said called party at a configurable time, recording media data on said calling party device, transmitting said media data to a called party device, transmitting a missed call alert to said called party device, transmitting a notification of said detected incomplete call to said called party device, transmitting a notification on availability of said called party, transmitting said media data to a social networking platform, transmitting an automated message requesting said called party to call back said calling party when available, and any combination thereof.

10. The method of claim 9, wherein said media data comprises one of text data, audio data, video data, audiovisual data, image data, multimedia data, message data, and any combination thereof.
11. The method of claim 1, further comprising determining a mode of transmission of media data from said calling party device to a called party device via a network, by said call completion application on said calling party device based on one or more of said action execution criteria.
12. The method of claim 1, further comprising monitoring said incomplete call by said call completion application on said calling party device as said incomplete call progresses from said incomplete call being initiated, said incomplete call being one of answered and rejected, and said incomplete call being terminated.
13. A method for completing a call attempt made by a calling party to a called party, comprising:
 - providing a call completion application executable by at least one processor on a calling party device, wherein said call completion application is configured to monitor call attempts, manage a plurality of call completion actions selectable by said calling party, and manage said completion of said call attempt for said calling party;
 - detecting a call attempt unanswered by said called party, by said call completion application on said calling party device;
 - generating a request defining said call completion actions for completing said detected unanswered call attempt, by said call completion application on said calling party device, wherein said call completion application on said calling party device is configured to render said generated request on a graphical user interface

of said calling party device and receive a response to said generated request from said calling party via said graphical user interface; and

triggering execution of one or more of said call completion actions determined from said received response of said calling party, by said call completion application on said calling party device based on one or more of action execution criteria for said completion of said detected unanswered call attempt.

14. The method of claim 13, wherein said action execution criteria comprise configuration of said call completion actions on said calling party device, one of a presence and an absence of one or more of a message box and a messaging application for receiving media data on one of a network account of said called party and a called party device, one of a presence and an absence of a data connection from said calling party device to a network, one of a presence and an absence of a messaging service in a network component of said called party, one of a presence and an absence of a messaging service in a network component of said calling party, reach of said messaging service to deliver said media data to one of said network component of said called party and said called party device, network options provided to said calling party device and said called party device by said network to which said calling party device and said called party device are connected, and call completion preferences configured by said call completion application on said calling party device.
15. The method of claim 13, further comprising determining a mode of transmission of a message from said calling party device to a called party device via a network, by said call completion application on said calling party device based on said received response and one or more of said action execution criteria.
16. The method of claim 13, further comprising:

detecting a call attempt answered by said called party, by said call completion application on said calling party device;

generating a request defining options for performing said call completion actions associated with said detected answered call attempt for completing said detected answered call attempt, by said call completion application on said calling party device, wherein said options are based on length of said detected answered call attempt, and wherein said call completion application on said calling party device is configured to render said generated request on said graphical user interface of said calling party device and receive a response to said generated request from said calling party via said graphical user interface; and

triggering execution of one or more of said call completion actions determined from said received response of said calling party, by said call completion application on said calling party device, based on one or more of said action execution criteria for said completion of said detected answered call attempt.

17. A system for completing an incomplete call made by a calling party to a called party, comprising:

a non-transitory computer readable storage medium configured to store a call completion application on a calling party device;

at least one processor communicatively coupled to said non-transitory computer readable storage medium, said at least one processor configured to execute said call completion application on said calling party device; and

said call completion application on said calling party device, comprising:

a call detection module configured to detect said incomplete call made by said calling party to said called party;

an action determination module configured to determine one or more of a plurality of call completion actions to be performed to complete said detected incomplete call; and

an action execution module configured to trigger execution of said determined one or more of said call completion actions based on one or more of action execution criteria for said completion of said detected incomplete call.

18. The system of claim 17, wherein said incomplete call is a call that is not connected to a called party device due to occurrence of one or more of a plurality of events, wherein said events comprise said called party being busy, said called party device being in an out of coverage area, said called party device being unreachable, said called party device being switched off, network congestion, and said call not being answered by said called party.
19. The system of claim 17, wherein said incomplete call is a call of a short duration that does not enable an intended communication to occur between said calling party and said called party.
20. The system of claim 17, wherein said action determination module is further configured to determine said one or more of said call completion actions based on a duration of said detected incomplete call.
21. The system of claim 17, wherein said action execution criteria comprise configuration of said call completion actions on said calling party device, one of a presence and an absence of one or more of a message box and a messaging application for receiving media data on one of a network account of said called party and a called party device, one of a presence and an absence of a data connection from said calling party device to a network, one of a presence and an absence of a messaging service in a network

component of said called party, one of a presence and an absence of a messaging service in a network component of said calling party, reach of said messaging service to deliver said media data to one of said network component of said called party and said called party device, network options provided to said calling party device and said called party device by said network to which said calling party device and said called party device are connected, and call completion preferences configured by said call completion application on said calling party device.

22. The system of claim 17, wherein said call completion application further comprises:

a request generation module configured to generate a request defining said call completion actions for completing said detected incomplete call;

a request rendering module configured to render said generated request on a graphical user interface of said calling party device; and

a response acquisition module configured to receive a response to said generated request from said calling party via said graphical user interface, wherein said action execution module is further configured to trigger said execution of said one or more of said call completion actions determined from said received response of said calling party based on one or more of said action execution criteria for said completion of said detected incomplete call.

23. The system of claim 17, wherein said action determination module is further configured to determine said one or more of said call completion actions to be performed to complete said detected incomplete call based on one or more of configurable criteria, wherein said configurable criteria comprise user configuration of said call completion application on said calling party device, call settings configured on said calling party device, network characteristics, and device characteristics.

24. The system of claim 17, wherein said call completion actions comprise setting a reminder to call back said called party at a configurable time, recording media data on said calling party device, transmitting said media data to a called party device, transmitting a missed call alert to said called party device, transmitting a notification of said detected incomplete call to said called party device, transmitting a notification on availability of said called party, transmitting said media data to a social networking platform, transmitting an automated message requesting said called party to call back said calling party when available, and any combination thereof.
25. The system of claim 24, wherein said media data comprises one of text data, audio data, video data, audiovisual data, image data, multimedia data, message data, and any combination thereof.
26. The system of claim 17, wherein said action execution module is further configured to determine a mode of transmission of media data from said calling party device to a called party device via a network based on one or more of said action execution criteria.
27. The system of claim 17, wherein said call detection module is further configured to monitor said incomplete call on said calling party device as said incomplete call progresses from said incomplete call being initiated, said incomplete call being one of answered and rejected, and said incomplete call being terminated.
28. A system for completing a call attempt made by a calling party to a called party, comprising:
- a non-transitory computer readable storage medium configured to store a call completion application on a calling party device;

at least one processor communicatively coupled to said non-transitory computer readable storage medium, said at least one processor configured to execute said call completion application on said calling party device; and

said call completion application configured to monitor call attempts, manage a plurality of call completion actions selectable by said calling party, and manage said completion of said call attempt for said calling party, said call completion application on said calling party device, comprising:

a call detection module configured to detect a call attempt unanswered by said called party;

a request generation module configured to generate a request defining said call completion actions for completing said detected unanswered call attempt;

a request rendering module configured to render said generated request on a graphical user interface of said calling party device;

a response acquisition module configured to receive a response to said generated request from said calling party via said graphical user interface; and

an action execution module configured to trigger execution of one or more of said call completion actions determined from said received response of said calling party based on one or more of action execution criteria for said completion of said detected unanswered call attempt.

29. A computer program product comprising a non-transitory computer readable storage medium, said non-transitory computer readable storage medium storing computer

program codes that comprise instructions executable by at least one processor, said computer program codes comprising:

a first computer program code for detecting an incomplete call from a calling party device to a called party device, wherein said incomplete call is one of a call that is not connected to said called party device and a call of short duration;

a second computer program code for determining one or more of a plurality of call completion actions to be performed to complete said detected incomplete call; and

a third computer program code for triggering execution of said determined one or more of said call completion actions based on one or more of action execution criteria for said completion of said detected incomplete call.

30. The computer program product of claim 29, wherein said action execution criteria comprise configuration of said call completion actions on said calling party device, one of a presence and an absence of one or more of a message box and a messaging application for receiving media data on one of a network account of a called party and said called party device, one of a presence and an absence of a data connection from said calling party device to a network, one of a presence and an absence of a messaging service in a network component of said called party, one of a presence and an absence of a messaging service in a network component of said calling party, reach of said messaging service to deliver said media data to one of said network component of said called party and said called party device, network options provided to said calling party device and said called party device by said network to which said calling party device and said called party device are connected, and call completion preferences configured on said calling party device.

31. The computer program product of claim 29, wherein said computer program codes further comprise:

a fourth computer program code for generating a request defining said call completion actions for completing said detected incomplete call;

a fifth computer program code for rendering said generated request on a graphical user interface of said calling party device; and

a sixth computer program code for receiving a response to said generated request from said calling party device via said graphical user interface, wherein said third computer program code is configured to trigger said execution of said one or more of said call completion actions determined from said received response based on one or more of said action execution criteria for said completion of said detected incomplete call.

32. The computer program product of claim 29, wherein said second computer program code is configured to determine said one or more of said call completion actions to be performed to complete said detected incomplete call based on one or more of configurable criteria, wherein said configurable criteria comprise user configuration of said call completion application on said calling party device, call settings configured on said calling party device, network characteristics, and device characteristics.
33. The computer program product of claim 29, wherein said call completion actions comprise setting a reminder to call back a called party at a configurable time, recording media data on said calling party device, transmitting said media data to said called party device, transmitting a missed call alert to said called party device, transmitting a notification of said detected incomplete call to said called party device, transmitting a notification on availability of said called party, transmitting said media data to a social networking platform, transmitting an automated message requesting said called party to call back a calling party when available, and any combination thereof, wherein said media data comprises one of text data, audio data, video data,

audiovisual data, image data, multimedia data, message data, and any combination thereof.

34. The computer program product of claim 29, wherein said computer program codes further comprise a seventh computer program code for determining a mode of transmission of media data from said calling party device to said called party device via a network based on one or more of said action execution criteria.

UTILITY PATENT APPLICATION TRANSMITTAL <i>(Only for new nonprovisional applications under 37 CFR 1.53(b))</i>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Attorney Docket No.</td> <td>KIRU-12NP-US</td> </tr> <tr> <td>First Inventor</td> <td>Inderpal Singh Mumick</td> </tr> <tr> <td>Title</td> <td>Sender Driven Call Completion System</td> </tr> <tr> <td>Express Mail Label No.</td> <td></td> </tr> </table>	Attorney Docket No.	KIRU-12NP-US	First Inventor	Inderpal Singh Mumick	Title	Sender Driven Call Completion System	Express Mail Label No.	
Attorney Docket No.	KIRU-12NP-US								
First Inventor	Inderpal Singh Mumick								
Title	Sender Driven Call Completion System								
Express Mail Label No.									

APPLICATION ELEMENTS <i>See MPEP chapter 600 concerning utility patent application contents.</i> 1. ☐ Fee Transmittal Form. <i>(PTO/SB/17 or equivalent)</i> 2. ☒ Applicant claims small entity status. <i>See 37 CFR 1.27.</i> 3. ☒ Specification. [Total Pages <u>50</u>] <i>Both the claims and abstract must start on a new page. (For information on the preferred arrangement, see MPEP § 608.01(a))</i> 4. ☒ Drawing(s). [35 U.S.C. 113] [Total Sheets <u>3</u>] 5. ☒ Inventor's Oath or Declaration. [Total Sheets <u>3</u>] <i>(excluding substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e))</i> a. ☒ Newly executed (original or copy) b. ☐ A copy from a prior application (37 CFR 1.63(d)) 6. ☒ Application Data Sheet. <i>*See Note below. See 37 CFR 1.76 (PTO/AIA/14 or equivalent)</i> 7. ☐ CD-ROM or CD-R. <i>In duplicate, large table or Computer Program (Appendix)</i> ☐ Landscape Table on CD 8. Nucleotide and/or Amino Acid Sequence Submission. <i>(if applicable, items a. - c. are required)</i> a. ☐ Computer Readable Form (CRF) b. ☐ Specification Sequence Listing on: i. ☐ CD-ROM or CD-R (2 copies); or ii. ☐ Paper c. ☐ Statements verifying identity of above copies	ACCOMPANYING APPLICATION PARTS 9. ☐ Assignment Papers. <i>(cover sheet & document(s))</i> Name of Assignee <u>Kirusa, Inc.</u> 10. ☐ 37 CFR 3.73(c) Statement. ☒ Power of Attorney. <i>(when there is an assignee)</i> 11. ☐ English Translation Document. <i>(if applicable)</i> 12. ☐ Information Disclosure Statement. <i>(PTO/SB/08 or PTO-1449)</i> ☐ Copies of citations attached 13. ☐ Preliminary Amendment. 14. ☐ Return Receipt Postcard. <i>(MPEP § 503) (Should be specifically demanded)</i> 15. ☐ Certified Copy of Priority Document(s). <i>(if foreign priority is claimed)</i> 16. ☐ Nonpublication Request. <i>Under 35 U.S.C. 122(b)(2)(B)%. Applicant must attach form PTO/SB/35 or equivalent.</i> 17. ☐ Other: _____
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***Note:** (1) Benefit claims under 37 CFR 1.78 and foreign priority claims under 1.55 **must** be included in an Application Data Sheet (ADS).
 (2) For applications filed under 35 U.S.C. 111, the application must contain an ADS specifying the applicant if the applicant is an assignee, person to whom the inventor is under an obligation to assign, or person who otherwise shows sufficient proprietary interest in the matter. See 37 CFR 1.46(b).

16. CORRESPONDENCE ADDRESS					
☐ The address associated with Customer Number: _____ OR ☒ Correspondence address below					
Name	Ashok Tankha				
Address	36 Greenleigh Drive				
City	Sewell	State	NJ	Zip Code	08090
Country	USA	Telephone	856-266-5145	Email	ash@ipprocurement.com
Signature	/a tankha/			Date	12 December 2013
Name (Print/Type)	Ashok Tankha			Registration No. (Attorney/Agent)	33802

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 422 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on this 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-PATO-0199 and select option 2.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 14/105,158				
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	70	N/A				
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	300	N/A				
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	360	N/A				
TOTAL CLAIMS (37 CFR 1.16(i))	34 minus 20 =	* 14		x 40 =	560	OR				
INDEPENDENT CLAIMS (37 CFR 1.16(h))	5 minus 3 =	* 2		x 210 =	420					
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	1710	TOTAL				
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		
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY		
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.										



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/105,158	12/12/2013	Inderpal Singh Mumick	KIRU-12NP-US

CONFIRMATION NO. 1097

FORMALITIES LETTER



0000000065744611

Date Mailed: 01/02/2014

Ashok Tankha
36 Greenleigh Drive
Sewell, NJ 08080

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing.

Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- A surcharge as set forth in 37 CFR 1.16(f) was not received.

The surcharge is due for any one of:

- late submission of the basic filing fee, search fee, or examination fee,
- late submission of inventor's oath or declaration,
- filing an application that does not contain at least one claim on filing, or
- submission of an application filed by reference to a previously filed application.

SUMMARY OF FEES DUE:

The fee(s) required for a small entity within **TWO MONTHS** from the date of this Notice to avoid abandonment is/are:

- \$ 70 surcharge.
- \$(.00) Previous Payment Amount.
- \$ 70 TOTAL FEE BALANCE DUE.

Items Required To Avoid Processing Delays:

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file an oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):
Raja N. Moorthy

Replies must be received in the USPTO within the set time period or must include a proper Certificate of Mailing or Transmission under 37 CFR 1.8 with a mailing or transmission date within the set time period. For more information and a suggested format, see Form PTO/SB/92 and MPEP 512.

Replies should be mailed to:

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

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web, including a copy of this Notice and selecting the document description "Applicant response to Pre-Exam Formalities Notice".

<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

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

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

/rmohamed/

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



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/105,158	12/12/2013	Inderpal Singh Mumick	KIRU-12NP-US

Ashok Tankha
36 Greenleigh Drive
Sewell, NJ 08080

CONFIRMATION NO. 1097
POA ACCEPTANCE LETTER



0000000065732762

Date Mailed: 01/02/2014

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 12/12/2013.

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

/ygenet/

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



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APPLICATION NUMBER	FILING OF 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO.	TOT CLAIMS	IND CLAIMS
14/105,158	12/12/2013	2653	1710	KIRU-12NP-US	34	5

CONFIRMATION NO. 1097

FILING RECEIPT



Date Mailed: 01/02/2014

Ashok Tankha
36 Greenleigh Drive
Sewell, NJ 08080

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)

Inderpal Singh Mumick, Berkely Heights, NJ;
Surinder Singh Anand, Highland Park, NJ;
Raja N. Moorthy, Fairless Hills, PA;

Applicant(s)

Kirusa, Inc., New Providence, NJ

Assignment For Published Patent Application

Kirusa, Inc., New Providence, NJ

Power of Attorney:

Ashok Tankha--33802

Domestic Priority data as claimed by applicant

This appln claims benefit of 61/737,274 12/14/2012

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 - A proper **Authorization to Permit Access to Application by Participating Offices** (PTO/SB/39 or its equivalent) has been received by the USPTO.

If Required, Foreign Filing License Granted: 12/24/2013

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/105,158**

Projected Publication Date: 06/19/2014

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

Sender Driven Call Completion System

Preliminary Class

379

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

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

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Title 37, Code of Federal Regulations, 5.11 & 5.15

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NOT GRANTED

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

DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)		Attorney Docket Number	KIRU-12NP-US
		First Named Inventor	Inderpal Singh Mumick
☐ Declaration Submitted With Initial Filing OR ☒ Declaration Submitted After Initial Filing (surcharge (37 CFR 1.16(f)) required)		COMPLETE IF KNOWN	
		Application Number	14/105,158
		Filing Date	12/12/2013
		Art Unit	
		Examiner Name	

Sender Driven Call Completion System

(Title of the Invention)

As a below named inventor, I hereby declare that:

This declaration is directed to:

☒ The attached application,

OR

☐ United States Application Number or PCT International application number _____
filed on _____.

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

I believe 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.

Authorization To Permit Access To Application by Participating Office



If 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 World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the above-identified patent application is filed access to the above-identified patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the above-identified patent application is filed to have access to the above-identified patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the above-identified patent application with respect to: 1) the above-identified patent application-as-filed; 2) any foreign application to which the above-identified patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above-identified patent application; and 3) any U.S. application-as-filed from which benefit is sought in the above-identified patent application.

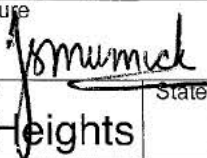
In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Offices.

[Page 1 of 2]

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 21 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.

DECLARATION — Utility or Design Patent Application

Direct all correspondence to: ☐		The address associated with Customer Number:		OR		☒ Correspondence address below	
Name Ashok Tankha							
Address 36 Greenleigh Drive							
City Sewell			State NJ		Zip 08080		
Country USA		Telephone 856-266-5145			Email ash@ipprocure.com		
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. Petitioner/applicant is advised that documents which form the record of a patent application (such as the PTO/SB/01) are placed into the Privacy Act system of records DEPARTMENT OF COMMERCE, COMMERCE-PAT-7, System name: <i>Patent Application Files</i>. Documents not retained in an application file (such as the PTO-2038) are placed into the Privacy Act system of COMMERCE/PAT-TM-10, System name: <i>Deposit Accounts and Electronic Funds Transfer Profiles</i>.							
LEGAL NAME OF SOLE OR FIRST INVENTOR:							
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)							
Inderpal Singh Mumick							
Inventor's Signature 					Date (Optional)		
Residence: City Berkely Heights		State NJ		Country USA			
Mailing Address 85 Swenson Circle, Berkely Heights, NJ 07922, USA							
City Berkely Heights		State NJ		Zip 07922		Country USA	
☒ Additional inventors are being named on the <u>1</u> supplemental sheet(s) PTO/AIA/10 attached hereto							

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SUPPLEMENTAL SHEET FOR DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental Sheet (for PTO/AIA/08,09)

Page 1 of 1

Legal Name of Additional Joint Inventor, if any:

(E.g., Given Name (first and middle (if any)) and Family Name or Surname)

Surinder Singh Anand

Inventor's
Signature

Surinder Singh Anand

Date (Optional)

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Highland Park

State

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Country

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Mailing Address

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State

NJ

Zip

08904

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USA

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(E.g., Given Name (first and middle (if any)) and Family Name or Surname)

Raja N. Moorthy

Inventor's
Signature

Raja N. Moorthy

Date (Optional)

Residence: City

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Fairless Hills

State

PA

Zip

19030

Country

USA

Legal Name of Additional Joint Inventor, if any:

(E.g., Given Name (first and middle (if any)) and Family Name or Surname)

Inventor's
Signature

Date (Optional)

Residence: City

State

Country

Mailing Address

City

State

Zip

Country

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Electronic Patent Application Fee Transmittal				
Application Number:		14105158		
Filing Date:		12-Dec-2013		
Title of Invention:		Sender Driven Call Completion System		
First Named Inventor/Applicant Name:		Inderpal Singh Mumick		
Filer:		Ashok Tankha		
Attorney Docket Number:		KIRU-12NP-US		
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Late Filing Fee for Oath or Declaration	2051	1	70	70
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				70

Electronic Acknowledgement Receipt

EFS ID:	18064569
Application Number:	14105158
International Application Number:	
Confirmation Number:	1097
Title of Invention:	Sender Driven Call Completion System
First Named Inventor/Applicant Name:	Inderpal Singh Mumick
Correspondence Address:	Ashok Tankha - 36 Greenleigh Drive - Sewell NJ 08080 US 8562665145 ash@ipprocurement.com
Filer:	Ashok Tankha
Filer Authorized By:	
Attorney Docket Number:	KIRU-12NP-US
Receipt Date:	29-JAN-2014
Filing Date:	12-DEC-2013
Time Stamp:	23:38:53
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 70

RAM confirmation Number	9941				
Deposit Account	503291				
Authorized User	TANKHA, ASHOK				
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)					
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Oath or Declaration filed	KIRU-12NP-US_Declaration.pdf	4073777	no	3
			90b247d9015fb04050c9f2a4cf98fe43d0d02d46		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	29867	no	2
			dd8a211b2aae049fe79e3adb667a1995a67de14e		
Warnings:					
Information:					
Total Files Size (in bytes):			4103644		
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P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OF 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO.	TOT CLAIMS	IND CLAIMS
14/105,158	12/12/2013	2653	1780	KIRU-12NP-US	34	5

CONFIRMATION NO. 1097

UPDATED FILING RECEIPT



Date Mailed: 02/10/2014

Ashok Tankha
36 Greenleigh Drive
Sewell, NJ 08080

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)

Inderpal Singh Mumick, Berkely Heights, NJ;
Surinder Singh Anand, Highland Park, NJ;
Raja N. Moorthy, Fairless Hills, PA;

Applicant(s)

Kirusa, Inc., New Providence, NJ

Assignment For Published Patent Application

Kirusa, Inc., New Providence, NJ

Power of Attorney:

Ashok Tankha--33802

Domestic Priority data as claimed by applicant

This appln claims benefit of 61/737,274 12/14/2012

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 - A proper **Authorization to Permit Access to Application by Participating Offices** (PTO/SB/39 or its equivalent) has been received by the USPTO.

If Required, Foreign Filing License Granted: 12/24/2013

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/105,158**

Projected Publication Date: 06/19/2014

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

Sender Driven Call Completion System

Preliminary Class

379

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

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

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Title 37, Code of Federal Regulations, 5.11 & 5.15

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 14/105,158				
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	70		N/A			
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	300		N/A			
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	360		N/A			
TOTAL CLAIMS (37 CFR 1.16(i))	34	minus 20 =	*	14	x 40 =	560	OR			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	5	minus 3 =	*	2	x 210 =	420				
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	1710		TOTAL			
APPLICATION AS AMENDED - PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	MINUS	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	
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	MINUS	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.										

Electronic Acknowledgement Receipt

EFS ID:	19140846
Application Number:	14105158
International Application Number:	
Confirmation Number:	1097
Title of Invention:	Sender Driven Call Completion System
First Named Inventor/Applicant Name:	Inderpal Singh Mumick
Correspondence Address:	Ashok Tankha - 36 Greenleigh Drive - Sewell NJ 08080 US 8562665145 ash@ipprocurement.com
Filer:	Ashok Tankha
Filer Authorized By:	
Attorney Docket Number:	KIRU-12NP-US
Receipt Date:	28-MAY-2014
Filing Date:	12-DEC-2013
Time Stamp:	03:35:51
Application Type:	Utility under 35 USC 111(a)

Payment information:

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

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	KIRU-12NP_US_Transmittal_Letter.pdf	351945	no	2
			279c712e26ea9a703e220d938c33c8ae529a9fa1		
Warnings:					
Information:					
2	Miscellaneous Incoming Letter	KIRU-12NP_US_Certification_Statement.pdf	16983	no	1
			b9dcee36e8a7c4a2d9391e90c0e513fd872b61ab		
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	KIRU-12NP-US_IDS.pdf	612307	no	4
			de6c3dc002919d27282616152b399da357cbbcad		
Warnings:					
Information:					
Total Files Size (in bytes):			981235		
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TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	14/105,158
	Filing Date	12 December 2014
	First Named Inventor	Inderpal Singh Mumick
	Art Unit	NA
	Examiner Name	Not Assigned
Total Number of Pages in This Submission	Attorney Docket Number	KIRU-12NP_US

ENCLOSURES (Check all that apply)		
☐ Fee Transmittal Form ☐ Fee Attached ☐ Amendment/Reply ☐ After Final ☐ Affidavits/declaration(s) ☐ Extension of Time Request ☐ Express Abandonment Request ☒ Information Disclosure Statement ☐ Certified Copy of Priority Document(s) ☐ Reply to Missing Parts/ Incomplete Application ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53	☐ Drawing(s) ☐ Licensing-related Papers ☐ Petition ☐ Petition to Convert to a Provisional Application ☐ Power of Attorney, Revocation Change of Correspondence Address ☐ Terminal Disclaimer ☐ Request for Refund ☐ CD, Number of CD(s) _____ ☐ Landscape Table on CD	☐ After Allowance Communication to TC ☐ Appeal Communication to Board of Appeals and Interferences ☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) ☐ Proprietary Information ☐ Status Letter ☒ Other Enclosure(s) (please identify below): Certification Statement
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Lipton, Weinberger & Husick		
Signature	/s tankha/		
Printed name	Ashok Tankha		
Date	05-27-2014	Reg. No.	33802

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States 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 shown below:			
Signature			
Typed or printed name		Date	

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether 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.
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		14105158	
	Filing Date		2013-12-12	
	First Named Inventor	Inderpal Singh Mumick		
	Art Unit	NA		
	Examiner Name	NA		
	Attorney Docket Number	KIRU-12NP-US		

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	6064874	A	2000-05-16	Metro One Telecommunications, Inc.			
If you wish to add additional U.S. Patent citation information please click the Add button.							Add	
U.S.PATENT APPLICATION PUBLICATIONS							Remove	
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear		
	1	20030112945	A1	2003-06-19	Wendell Brown et al.			
	2	20060104429	A1	2006-05-18	Wim Wouterse et al.			
	3	20100296644	A1	2010-11-25	Alfonso Pisani et al.			
	4	20090143085	A1		Kirusa Inc.			
If you wish to add additional U.S. Published Application citation information please click the Add button.							Add	
FOREIGN PATENT DOCUMENTS							Remove	
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² j	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

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

Application Number		14105158
Filing Date		2013-12-12
First Named Inventor	Inderpal Singh Mumick	
Art Unit	NA	
Examiner Name	NA	
Attorney Docket Number	KIRU-12NP-US	

	1							☐
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NON-PATENT LITERATURE DOCUMENTS

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1		☐

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	
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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	14105158
Filing Date	2013-12-12
First Named Inventor	Inderpal Singh Mumick
Art Unit	NA
Examiner Name	NA
Attorney Docket Number	KIRU-12NP-US

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	/a tankha/	Date (YYYY-MM-DD)	2014-05-28
Name/Print	Ashok Tankha	Registration Number	33802

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

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these 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).
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re. application of:
Application No.: 14/105,158
Filed: 12 December 2013
First Named Applicant: Inderpal Singh Mumick
Title: Sender Driven Call Completion System

Attorney Docket #: KIRU-12NP-US

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

Certification Statement

Sir/Madam,

With reference to the above mentioned application, each item listed in the Information Disclosure Statement submitted herewith was cited in the PCT Search Report mailed on 3 April 2014.

If there are any further inquiries with regard to this submission, you are requested to contact the undersigned.

Respectfully Submitted,

Date: 27 May 2014

/s tankha/
Ashok Tankha, Esq.
Attorney for Applicant
Reg. No. 33802
Phone: 856-266-5145

Correspondence Address
36 Greenleigh Drive
Sewell, NJ 08080
Fax: 856-374-0246
Email: ash@ipprocure.com



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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/105,158	12/12/2013	Inderpal Singh Mumick	KIRU-12NP-US

CONFIRMATION NO. 1097

PUBLICATION NOTICE



0000000069122464

Ashok Tankha
36 Greenleigh Drive
Sewell, NJ 08080

Title:Sender Driven Call Completion System

Publication No.US-2014-0169539-A1

Publication Date:06/19/2014

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently <http://www.uspto.gov/patft/>.

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

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently <http://pair.uspto.gov/>. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		14105158
	Filing Date		2013-12-12
	First Named Inventor	Inderpal Singh Mumick	
	Art Unit	NA 2653	
	Examiner Name	NA /Solomon Bezuayehu/	
	Attorney Docket Number	KIRU-12NP-US	

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	6064874	A	2000-05-16	Metro One Telecommunications, Inc.			
If you wish to add additional U.S. Patent citation information please click the Add button.							Add	
U.S.PATENT APPLICATION PUBLICATIONS							Remove	
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear		
	1	20030112945	A1	2003-06-19	Wendell Brown et al.			
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	4	20090143085	A1		Kirusa Inc.			
If you wish to add additional U.S. Published Application citation information please click the Add button.							Add	
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Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² j	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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	Filing Date		2013-12-12
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	Examiner Name	NA /Solomon Bezuayehu/	
	Attorney Docket Number	KIRU-12NP-US	

	1								☐
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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
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	1		☐
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EXAMINER SIGNATURE			
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Examiner Signature	/Solomon Bezuayehu/	Date Considered	02/23/2015
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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	14105158
Filing Date	2013-12-12
First Named Inventor	Inderpal Singh Mumick
Art Unit	NA
Examiner Name	NA
Attorney Docket Number	KIRU-12NP-US

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☒ See attached certification statement.

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

☐ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/a tankha/	Date (YYYY-MM-DD)	2014-05-28
Name/Print	Ashok Tankha	Registration Number	33802

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /S.E

<i>Index of Claims</i> 	Application/Control No. 14105158	Applicant(s)/Patent Under Reexamination MUMICK ET AL.
	Examiner SOLOMON BEZUAYEHU	Art Unit 2653

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

☐ Claims renumbered in the same order as presented by applicant		☐ CPA		☐ T.D.		☐ R.1.47			
CLAIM		DATE							
Final	Original	02/23/2015							
	1	✓							
	2	✓							
	3	✓							
	4	✓							
	5	✓							
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	7	✓							
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	32	✓							
	33	✓							
	34	✓							



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BIB DATA SHEET

CONFIRMATION NO. 1097

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.		
14/105,158	12/12/2013	379	2653	KIRU-12NP-US		
APPLICANTS Kirusa, Inc., New Providence, NJ, Assignee (with 37 CFR 1.172 Interest); INVENTORS Inderpal Singh Mumick, Berkely Heights, NJ; Surinder Singh Anand, Highland Park, NJ; Raja N. Moorthy, Fairless Hills, PA; ** CONTINUING DATA ***** This appln claims benefit of 61/737,274 12/14/2012 ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** ** SMALL ENTITY ** 12/24/2013						
Foreign Priority claimed	☐ Yes ☒ No	☐ Met after Allowance	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
35 USC 119(a-d) conditions met	☐ Yes ☒ No		NJ	8	34	5
Verified and	/SOLOMON G BEZUAYEHU/ Examiner's Signature		Initials			
Acknowledged						
ADDRESS Ashok Tankha 36 Greenleigh Drive Sewell, NJ 08080 UNITED STATES						
TITLE Sender Driven Call Completion System						
FILING FEE RECEIVED 1780	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						

Search Notes 	Application/Control No. 14105158	Applicant(s)/Patent Under Reexamination MUMICK ET AL.
	Examiner SOLOMON BEZUAYEHU	Art Unit 2653

CPC- SEARCHED		
Symbol	Date	Examiner
(H04M1/274575 OR H04W28/04 OR H04W76/02 OR H04W76/06 OR H04W84/042).CPC.	2/23/2015	Bezuayehu

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
379	88.01-88.19	2/23/2015	bezuayehu
455	465	2/23/2015	bezuayehu

SEARCH NOTES		
Search Notes	Date	Examiner
PGPUB;EPO;JPO;USPAT	2/23/2015	bezaueyhu

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

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	(US-20030119520-\$).did.	US-PGPUB	ADJ	ON	2015/02/23 06:09
L2	7	(auto\$3 near2 re\$dial\$5) AND (H04M1/274575 OR H04W28/04 OR H04W76/02 OR H04W76/06 OR H04W84/042).CPC.)	US-PGPUB	ADJ	ON	2015/02/23 06:09
L3	9959	(379/40,51,100.14,88.01-88.19 or 455/465).ccls.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2015/02/23 06:13
L4	7	(auto\$3 near2 re\$dial\$5) AND 3	US-PGPUB	ADJ	ON	2015/02/23 06:13
S2	257	(re\$dial\$3 or re\$try\$3) with (software or application) with (caller or calling)	US-PGPUB; USPAT	ADJ	OFF	2014/04/30 15:54
S3	257	S2 and (@ad<"20121214" or @rlad<"20121214" or @ptad<"20121214")	US-PGPUB; USPAT	ADJ	OFF	2014/04/30 15:54
S4	19	S2 same (incomplet\$3 or un\$answer\$3 or answer\$3)	US-PGPUB; USPAT	ADJ	OFF	2014/04/30 15:55
S5	19	S4 and (@ad<"20121214" or @rlad<"20121214" or @ptad<"20121214")	US-PGPUB; USPAT	ADJ	OFF	2014/04/30 15:55
S6	1972	(determin\$3 or detect\$3) near4 (call near4 (incomplete or un\$answered or answered)	US-PGPUB; USPAT	ADJ	OFF	2014/04/30 16:06
S7	32	S6 same (re\$dial\$3 or re\$try\$3)	US-PGPUB; USPAT	ADJ	OFF	2014/04/30 16:06
S8	32	S7 and (@ad<"20121214" or @rlad<"20121214" or @ptad<"20121214")	US-PGPUB; USPAT	ADJ	OFF	2014/04/30 16:06
S10	43	(device or apparatus or phone) near5 initiat\$3 near5 call near3 again	US-PGPUB; USPAT	ADJ	OFF	2014/04/30 17:28
S11	43	S10 and (@ad<"20121214" or @rlad<"20121214" or @ptad<"20121214")	US-PGPUB; USPAT	ADJ	OFF	2014/04/30 17:28
S12	4959	(determin\$3 or detect\$3) with (call) with (incomplet\$3 or un\$answered or answer)	US-PGPUB; USPAT	ADJ	OFF	2014/04/30 19:41
S13	247	S12 same ((call near3 again) or schedul\$3 or re\$dial\$3)	US-PGPUB; USPAT	ADJ	OFF	2014/04/30 19:43
S14	124	S13 same (device or GUI or phone or apparatus)	US-PGPUB; USPAT	ADJ	OFF	2014/04/30 19:43
S15	124	S14 and (@ad<"20121214" or @rlad<"20121214" or @ptad<"20121214")	US-PGPUB; USPAT	ADJ	OFF	2014/04/30 19:44
S16	1002	(re\$dial\$3) with (answer\$3 or incomplet\$5 or un\$answer\$3)	US-PGPUB; USPAT; EPO;	ADJ	ON	2015/02/22 11:15

			JPO			
S17	952	S16 and (@ad<"20121214" or @rlad<"20121214" or @ptad<"20121214")	US-PGPUB; USPAT	ADJ	OFF	2015/02/22 11:16
S18	516	S17 and ("379" or "455").clas.	US-PGPUB; USPAT	ADJ	OFF	2015/02/22 11:16
S19	180	auto\$6 with (re\$dial\$3) with (answer\$3 or incomplet\$5 or un\$answer\$3)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2015/02/22 21:05
S20	166	S19 and (@ad<"20121214" or @rlad<"20121214" or @ptad<"20121214")	US-PGPUB; USPAT	ADJ	OFF	2015/02/22 21:05
S21	135	S20 and ("379" or "455").clas.	US-PGPUB; USPAT	ADJ	OFF	2015/02/22 21:05
S22	77	(auto\$6 near2 (re\$dial\$3)).ti.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2015/02/22 21:50
S23	29	S22 and (@ad<"20121214" or @rlad<"20121214" or @ptad<"20121214")	US-PGPUB; USPAT	ADJ	OFF	2015/02/22 21:50
S24	12	S23 and (busy)	US-PGPUB; USPAT	ADJ	OFF	2015/02/22 21:51
S25	0	S24 not (S21 or S23)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2015/02/22 21:57
S26	1002	(re\$dial\$3) with (answer\$3 or incomplet\$5 or un\$answer\$3)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2015/02/22 22:03
S27	952	S26 and (@ad<"20121214" or @rlad<"20121214" or @ptad<"20121214")	US-PGPUB; USPAT	ADJ	OFF	2015/02/22 22:03
S28	516	S27 and ("379" or "455").clas.	US-PGPUB; USPAT	ADJ	OFF	2015/02/22 22:03
S29	380	S28 not (S21 or S23)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2015/02/22 22:03
S30	172	S29 and ("455").clas.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2015/02/22 22:11
S31	84	S30 and busy	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2015/02/22 22:13
S32	2	"US 20140169539"	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2015/02/22 22:25
S33	1064	(select\$5 or option) near3 (re\$dial\$5)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2015/02/23 01:16
S34	823	(select\$5) near3 (re\$dial\$5)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2015/02/23 01:17
S35	137	S34 and (busy)	US-PGPUB; USPAT	ADJ	OFF	2015/02/23 01:18
S36	32	S35 and ("455").clas.	US-PGPUB; USPAT; EPO;	ADJ	ON	2015/02/23 01:19

			JPO			
S37	544	(prompt\$5) near5 (re\$dial\$5)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2015/02/23 01:27
S38	78	S37 and (busy)	US-PGPUB; USPAT	ADJ	OFF	2015/02/23 01:28
S39	78	S38 and (@ad<"20121214" or @rlad<"20121214" or @ptad<"20121214")	US-PGPUB; USPAT	ADJ	OFF	2015/02/23 01:28
S40	670	(display or screen) near5 (re\$dial\$5)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2015/02/23 01:41
S41	19	S40 same busy	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2015/02/23 01:41
S42	13	S41 and (@ad<"20121214" or @rlad<"20121214" or @ptad<"20121214")	US-PGPUB; USPAT	ADJ	OFF	2015/02/23 01:41
S43	67	((prompt\$5) near5 (re\$dial\$5)) same (screen or display\$5)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2015/02/23 01:44
S44	63	S43 and (@ad<"20121214" or @rlad<"20121214" or @ptad<"20121214")	US-PGPUB; USPAT	ADJ	OFF	2015/02/23 01:44
S45	12	S44 and busy	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2015/02/23 01:44
S46	43446	(transmission mode)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2015/02/23 02:28
S47	4015	select\$5 near3 (transmission mode)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2015/02/23 02:29
S48	2	"US 20060242588"	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	ON	2015/02/23 02:45
S49	363	(re\$dial\$3) same reject\$2	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2015/02/23 03:12
S50	162	(re\$dial\$3) with reject\$2	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2015/02/23 03:12
S51	143	S50 and (@ad<"20121214" or @rlad<"20121214" or @ptad<"20121214")	US-PGPUB; USPAT	ADJ	OFF	2015/02/23 03:12
S52	19	S51 and ("379" or "455").clas.	US-PGPUB; USPAT	ADJ	OFF	2015/02/23 03:13

EAST Search History (Interference)

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Notice of References Cited	Application/Control No. 14/105,158		Applicant(s)/Patent Under Reexamination MUMICK ET AL.	
	Examiner SOLOMON BEZUAYEHU		Art Unit 2653	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,627,875 A	05-1997	Kapsales, Peter	455/567
*	B	US-2002/0101970 A1	08-2002	Contractor, Sunil	379/209.01
*	C	US-2003/0119520 A1	06-2003	Yoshioka et al.	455/456
*	D	US-2006/0242588 A1	10-2006	Ybarra et al.	715/748
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	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.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/105,158	12/12/2013	Inderpal Singh Mumick	KIRU-12NP-US	1097
7590 Ashok Tankha 36 Greenleigh Drive Sewell, NJ 08080			EXAMINER BEZUAYEHU, SOLOMON G	
			ART UNIT 2653	PAPER NUMBER
			MAIL DATE 02/27/2015	DELIVERY MODE PAPER

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.

Office Action Summary	Application No. 14/105,158	Applicant(s) MUMICK ET AL.	
	Examiner SOLOMON BEZUAYEHU	Art Unit 2653	AIA (First Inventor to File) Status Yes

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

Period for Reply

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

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

Status

1) ☒ Responsive to communication(s) filed on 12/12/2013.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

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

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

Disposition of Claims*

5) ☒ Claim(s) 1-34 is/are pending in the application.
5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☒ Claim(s) 1-34 is/are rejected.

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

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

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

Application Papers

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

11) ☒ The drawing(s) filed on 12/12/2013 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

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

Certified copies:

a) ☐ All b) ☐ Some** c) ☐ None of the:

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

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

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

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

Attachment(s)

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

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date 05/28/2014.

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

4) ☐ Other: _____.

Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-34 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter because the claim(s) as a whole, considering all claim elements both individually and in combination, do not amount to significantly more than an abstract idea. The claims are directed to the abstract idea (i.e. detecting incomplete call, determining the completion action, and triggering the completion action), which is a method of organizing human activities. The claim lacks detail steps and hardware performing the steps. Those steps can be performed by human. The additional element(s) or combination of elements in the claim(s) other than the abstract idea per se amount(s) to no more than: recitation of generic computer structure that serves to perform generic computer functions that are well-understood, routine, and conventional activities previously known to the pertinent industry. Viewed as a whole, these additional claim element(s) do not provide meaningful limitation(s) to transform the abstract idea into a patent eligible application of the abstract idea such that the claim(s) amounts to significantly more than the abstract idea itself. Therefore, the claim(s) are rejected under 35 U.S.C. 101 as being directed to non-statutory subject matter.

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)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale or otherwise available to the public before the effective filing date of the claimed invention.

3. Claims 1-5, 7, and 17-21 are rejected under 35 U.S.C. 102 (a)(1) as being anticipated by Yashioka et al. (Pub. No. US 20030119520).

Regarding claims 1, 7, and 17, Yashioka teaches a method for completing an incomplete call made by a calling party to a called party [Abstract], comprising: providing a call completion application (program) executable by at least one processor on a calling party device [Para. 18, 23 and 26]; detecting said incomplete call made by said calling party to said called party, by said call completion application on said calling party device [Para. 27 and 28]; determining one or more of a plurality of call completion actions (redial by choosing from plurality of phone numbers) to be performed by said call completion application on said calling party device to complete said detected incomplete call [Para. 28, 29, fig. 3A step 114] ; and triggering execution of said determined one or more of said call completion actions (redialing) by said call completion application on said calling party device based on one or more of action execution criteria for said completion of said detected incomplete call [Para. 28, 29, fig. 3A, steps 114, 118 and related description].

Regarding claims 2 and 18, Yashioka teaches wherein said incomplete call is a call that is not connected to a called party device due to occurrence of one or more of a plurality of events, wherein said events comprise said called party being busy, said called party device being in an out of coverage area, said called party device being unreachable, said called party device being switched off, network congestion, and said call not being answered by said called party [Para. 28].

Regarding claims 3 and 19, Yashioka teaches wherein said incomplete call is a call of a short duration that does not enable an intended communication to occur between said calling party and said called party [Para. 31 *“If the controller 30 receives a channel disorder signal from the radio transceiver 12 in step 102 or if the controller 30 receives no response from the radio transceiver 12 for a time period exceeding an allowable time period in step 120, then the control is passed to step 122”* it’s clear no response was being detected in the short duration (time period)].

Regarding claims 4 and 20, Yashioka teaches wherein said one or more of said call completion actions are determined by said call completion application based on a duration of said detected incomplete call [Para. 28-31, fig. 3A and related description].

Regarding claims 5 and 21, Yashioka teaches wherein said action execution criteria comprise configuration of said call completion actions on said calling party device, one of a presence and an absence of one or more of a message box and a messaging application for receiving media data on one of a network account of said called party and a called party device, one of a presence and an absence of a data connection from said calling party device to a network, one of a presence and an absence of a messaging service in a network component of said called party, one of a presence and an absence of a messaging service in a network component of said calling party, reach of said messaging service to deliver said media data to one of said network component of said called party and said called party device, network options provided to said calling party device and said called party device by said network to which said calling party device and said called party device are connected, and call completion preferences configured by said call completion application on said calling party device [Para. 28-31].

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 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 6, 8-10, 13, 14, 16, 22-25, and 28-33 are rejected under 35 U.S.C. 103 as being unpatentable over Yashioka et al. (Pub. No. US 20030119520) in view of Honig et al. (Pub. No. US 20120201367).

Regarding claims 6 and 22, Yashioka doesn't explicitly teach the claimed limitation.

However, Honig teaches wherein said determination of said one or more of said call completion actions to be performed by said call completion application on said calling party device to complete said detected incomplete call comprises: generating a request (prompt) defining said call completion actions (redial) for completing said detected incomplete call, by said call completion application on said calling party device [Para. 28, fig. 2, 3, and related description]; rendering said generated request on a graphical user interface of said calling party device by said call completion application [Para. 28, fig. 2, 3, and related description]; and receiving a response to said generated request from said calling party by said call completion application via said graphical user interface, wherein said call completion application is configured to trigger said execution of said one or more of said call completion actions determined from said received response of said calling party based on one or more of said action execution criteria for said completion of said detected incomplete call [Para. 28, fig. 2, 3, and related description].

It would have been obvious to one of ordinary skill in the art, at the time of this invention was made, to modify Yashioka to in order to give user reconnecting option, feature as taught by Honig; because the modification enable the subscriber to save time by redialing to still busy called party line.

Regarding claims 8, 23, and 32 Yashioka in view of Honig teaches all limitation as stated above. Furthermore, Honig teaches said configurable criteria comprise user configuration of said call completion application on said calling party device, call settings configured on said calling party device, network characteristics, and device characteristics [fig. 1-3 and related description].

Regarding claims 9 and 24, Yashioka in view of Honig teaches all limitation above. Furthermore, Honig teaches wherein said call completion actions comprise setting a reminder to call back said called party at a configurable time, recording media data on said calling party device, transmitting said media data to a called party device, transmitting a missed call alert to said called party device, transmitting a notification of said detected incomplete call to said called party device, transmitting a notification on availability of said called party, transmitting said media data to a social networking platform, transmitting an automated message requesting said called party to call back said calling party when available, and any combination thereof [fig. 2, 3 and related description].

Regarding claims 10 and 25, Yashioka in view of Honig teaches all limitation above. Furthermore, Honig teaches wherein said media data comprises one of text data, audio data [Para. 22, 37, and 44].

Regarding claims 13, 28, and 29, Yashioka teaches a method for completing a call attempt made by a calling party to a called party [Abstract], comprising: providing a call completion application executable by at least one processor on a calling party device, wherein said call completion application is configured to monitor call attempts, manage a plurality of call completion actions selectable by said calling party, and manage said completion of said call attempt for said calling party [Para. 28, 29, fig. 3A]; detecting a call attempt unanswered by said called party, by said call completion application on said calling party device [Para. 28, 29, fig. 3A]; and triggering execution of one or more of said call completion actions (redial) determined from said received response of said calling party, by said call completion application on said calling party device based on one or more of action execution criteria for said completion of said detected unanswered call attempt [Para. 28, 29, fig. 3A, steps 114, 118 and related description].

However, Yashioka doesn't explicitly teach generating a request defining said call completion actions for completing said detected unanswered call attempt, by said call completion application on said calling party device, wherein said call completion application on said calling party device is configured to render said generated request on a graphical user interface of said calling party device and receive a response to said generated request from said calling party via said graphical user interface.

Honig teaches wherein said determination of said one or more of said call completion actions to be performed by said call completion application on said calling party device to complete said detected incomplete call comprises: generating a request (prompt) defining said call completion actions (redial) for completing said detected incomplete call, by said call completion application on said calling party device [Para. 28, fig. 2, 3, and related description]; rendering said generated request on a graphical user interface of said calling party device by said call completion application [Para. 28, fig. 2, 3, and related description]; and receiving a response to said generated request from said calling party by said call completion application via said graphical user interface, wherein said call completion application is configured to trigger said execution of said one or more of said call completion actions determined from said received response of said calling party based on one or more of said action execution criteria for said completion of said detected incomplete call [Para. 28, fig. 2, 3, and related description].

It would have been obvious to one of ordinary skill in the art, at the time of this invention was made, to modify Yashioka to in order to give user reconnecting option, feature as taught by Honig; because the modification enable the subscriber to save time by redialing to still busy called party line.

Regarding claims 14 and 30, Yashioka teaches wherein said action execution criteria comprise configuration of said call completion actions on said calling party device, one of a presence and an absence of one or more of a message box and a messaging application for receiving media data on one of a network account of said

called party and a called party device, one of a presence and an absence of a data connection from said calling party device to a network, one of a presence and an absence of a messaging service in a network component of said called party, one of a presence and an absence of a messaging service in a network component of said calling party, reach of said messaging service to deliver said media data to one of said network component of said called party and said called party device, network options provided to said calling party device and said called party device by said network to which said calling party device and said called party device are connected, and call completion preferences configured by said call completion application on said calling party device [Para. 28-31].

Regarding claims 16 and 31, Yashioka in view of Honig teaches the all claim limitation as stated above. Furthermore, Honig teaches detecting a call attempt answered by said called party, by said call completion application on said calling party device; generating a request defining options for performing said call completion actions associated with said detected answered call attempt for completing said detected answered call attempt, by said call completion application on said calling party device, wherein said options are based on length of said detected answered call attempt, and wherein said call completion application on said calling party device is configured to render said generated request on said graphical user interface of said calling party device and receive a response to said generated request from said calling party via said graphical user interface; and triggering execution of one or more of said call completion actions

determined from said received response of said calling party, by said call completion application on said calling party device, based on one or more of said action execution criteria for said completion of said detected answered call attempt [Para. 28, fig. 2, 3, and related description].

Regarding claim 33, Yashioka in view of Honig teaches all limitation above. Furthermore, Honig teaches wherein said call completion actions comprise setting a reminder to call back said called party at a configurable time, recording media data on said calling party device, transmitting said media data to a called party device, transmitting a missed call alert to said called party device, transmitting a notification of said detected incomplete call to said called party device, transmitting a notification on availability of said called party, transmitting said media data to a social networking platform, transmitting an automated message requesting said called party to call back said calling party when available, and any combination thereof [fig. 2, 3 and related description]; wherein said media data comprises one of text data, audio data, video data, audiovisual data, image data, multimedia data, message data, and any combination thereof [fig. 1-3 and related description].

6. Claims 11 and 26 are rejected under 35 U.S.C. 103 as being unpatentable over Yashioka et al. (Pub. No. US 20030119520) in view of Ybarra et al. (Pub. No. US 20060242588).

Regarding claims 11 and 26, Yashioka doesn't explicitly teach the claimed limitation.

However, Ybarra determining a mode/type of transmission of media data from said calling party device to a called party device via a network, by said call completion application on said calling party device based on one or more of said action execution criteria [fig. 2, 6, 12, 13 and related description].

It would have been obvious to one of ordinary skill in the art, at the time of this invention was made, to modify Yashioka to teach the claimed limitation, feature as taught by Ybarra; because the modification enable the subscriber select type of message to send.

7. Claims 12 and 27 are rejected under 35 U.S.C. 103 as being unpatentable over Yashioka et al. (Pub. No. US 20030119520) in view of Contractor (Pub. No. US 20020101970).

Regarding claims 12 and 27, Yashioka teaches monitoring said incomplete call by said call completion application on said calling party device as said incomplete call progresses from said incomplete call being initiated, and said incomplete call being terminated [Abstract "*Once a call is established after the call origination, in response to a detection of disconnection of the call caused not by a user but by a channel disorder, a call termination process executed.*".

However, Yashioka doesn't explicitly teach call rejection.

Contractor teaches the called party answer or rejecting the incoming call [Para. 59].

It would have been obvious to one of ordinary skill in the art, at the time of this invention was made, to modify Yashioka to reject the incoming call, feature as taught by Contractor; because the modification enable the subscriber rejection unwanted calls before they reach voicemail.

8. Claims 15 and 34 are rejected under 35 U.S.C. 103 as being unpatentable over Yashioka et al. (Pub. No. US 20030119520) in view of Honig et al. (Pub. No. US 20120201367) further in view of Ybarra et al. (Pub. No. US 20060242588).

Regarding claims 15 and 34, Yashioka in view of Honig doesn't explicitly teach the claimed limitation.

However, Ybarra determining a mode/type of transmission of media data from said calling party device to a called party device via a network, by said call completion application on said calling party device based on one or more of said action execution criteria [fig. 2, 6, 12, 13 and related description].

It would have been obvious to one of ordinary skill in the art, at the time of this invention was made, to modify Yashioka in view of Honig to teach the claimed limitation, feature as taught by Ybarra; because the modification enable the subscriber select type of message to send.

Remark: overcoming the 101 rejection, and adding Claims 5 and 9 into the independent claims, it **might** place the claims in good condition for allowance.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SOLOMON BEZUAYEHU whose telephone number is (571)270-7452. The examiner can normally be reached on Monday through Friday 9 a.m-4 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, FAN TSANG can be reached on 571-272-7547. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/SOLOMON BEZUAYEHU/

Examiner, Art Unit 2653

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re. application of:

Application No.: 14/105,158

Filed: 12/12/2013

Applicant: Kirusa, Inc.

Title: Sender Driven Call Completion
System

Examiner: Bezuayehu, Solomon G

Art Unit: 2653

Attorney Docket No.: KIRU-12NP-US

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

Response to Non-Final Office Action

Examiner Bezuayehu:

In response to the non final office action dated February 27, 2015, please amend the above-referenced application as follows:

Amendments to the Claims are listed on page 2 of this response.

Remarks begin on page 16 of this response.

Privacy Act Statement

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

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

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

Electronic Patent Application Fee Transmittal				
Application Number:		14105158		
Filing Date:		12-Dec-2013		
Title of Invention:		Sender Driven Call Completion System		
First Named Inventor/Applicant Name:		Inderpal Singh Mumick		
Filer:		Ashok Tankha		
Attorney Docket Number:		KIRU-12NP-US		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension - 2 months with \$0 paid	2252	1	300	300
Miscellaneous:				
Total in USD (\$)				300

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re. application of:

Application No.: 14/105,158

Filed: 12/12/2013

Applicant: Kirusa, Inc.

Title: Sender Driven Call Completion
System

Examiner: Bezuayehu, Solomon G

Art Unit: 2653

Attorney Docket No.: KIRU-12NP-US

Mail Stop Amendment

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

TRANSMITTAL LETTER

1. **Attachments:** We are transmitting herewith the attached papers for the above identified patent application:

☒ **Response to office action (23 pages); and**

☒ **Petition for 2 month time extension, Form PTO/AIA/22.**

2. **Fees:**

a. **\$300 for 2 month time extension.**

3. **General Authorization to charge or credit fees:** The Director is hereby authorized to charge any underpayment of fee or any other fee that may be required to deposit account # **503291**.

4. **Certificate Of Transmission Under 37 § CFR 1.8:** The undersigned hereby certifies that this Transmittal Letter and the papers as described in paragraph 1 hereinabove, are being electronically transmitted to the United States Patent and Trademark Office **via the USPTO electronic filing system** on this **27th** day of **July 2015**.

Respectfully submitted,

Date: July 27, 2015

/a tankha/
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Remarks

The Present Invention and the Pending Claims

The present invention relates generally to a computer implemented method and system for completing an incomplete call made by a calling party to a called party.

Claims 1-5, 7-8, 10-12, 17-21, 23, 25, 27, 29-30, 32 are currently pending.

Reconsideration and allowance of the pending claims is respectfully requested.

Summary of the Office Action

Claims Rejection

Claims 1-34 are rejected under 35 USC. 101 because the claimed invention is directed to non-statutory subject matter because the claim(s) as a whole, considering all claim elements both individually and in combination, do not amount to significantly more than an abstract idea.

Claims 1-5, 7, and 17-21 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Yashioka et al. (hereinafter Yashioka, Pub. No. US 20030119520).

Claims 6, 8-10, 13, 14, 16, 22-25, and 28-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yashioka in view of Honig et al. (hereinafter Honig, Pub. No. US 20120201367).

Claims 11 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yashioka in view of Ybarra et al. (Ybarra hereinafter, Pub. No. US 20060242588).

Claims 12 and 27 are rejected under 35 U.S.C. 103 as being unpatentable over Yashioka in view of Contractor et al. (Contractor hereinafter, Pub. No. US 20020101970).

Claims 15 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yashioka in view of Honig further in view of Ybarra.

Amendments to the Claims

Claims 1-5, 7-8, 10-12, 17-21, 23, 25, 27, 29, 32 are currently amended.

The office action states: **“Claims 1-34 are rejected under 35 USC. 101 because the claimed invention is directed to non-statutory subject matter because the claim(s) as a whole, considering all claim elements both individually and in combination, do not amount to significantly more than an abstract idea.”**

The applicant respectfully disagrees to the rejection of claims 1-34 under 35 U.S.C. 101.

The office action while rejecting claims 1-34 states that:

“The claims are directed to the abstract idea of detecting incomplete call, determining the completing action and triggering the complete action, which is a method of organizing human activities. The claim lacks detail steps and hardware performing the steps. Those steps can be performed by human. The additional element(s) or combination of elements in the claim(s) other than the abstract idea per se amount(s) to no more than (i) mere instructions to implement the idea on a computer, and/or (ii) recitation of generic computer structure that serves to perform generic computer functions that are well—understood, routine, and conventional activities previously known to the pertinent industry. Viewed as a whole, these additional claim element(s) do not provide meaningful limitation(s) to transform the abstract idea into a patent eligible application of the abstract idea such that the claim(s) amounts to significantly more than the abstract idea itself. Therefore, the claim(s) are rejected under 35 USC 101 as being directed to non-statutory subject matter.”

Applicant respectfully disagrees with the above characterization of Applicant's claims and submits that the claims are not merely "directed to the abstract idea of detecting incomplete call, determining the completing action and triggering the complete action" and are not merely a method of organizing human activities. Applicant maintains that the claims are patent-eligible under 35 U.S.C. 101 and the claims do not merely recite an abstract idea for the following reasons:

1. There is no evidence on record to establish that the claims **merely** recite an abstract idea of detecting incomplete call through a call completion application. Amended claim 1 recites a method for completing an incomplete call made by a calling party to a called party by a call completion application which includes the steps of detecting an incomplete call made by the calling party to the called party, receiving one or more of a plurality of call completion actions to be performed by call completion application on the calling party device to complete the detected incomplete call, and triggering execution of the received one or more of the call completion actions by the call completion application on the calling party device based on one or more of action execution criteria for the completion of detected incomplete call.
2. The claim as a whole provides meaningful limitation and/or method steps which amounts to significantly more than an abstract idea.

The Federal Register Vol. 79, No. 241, December 16, 2014 **provides guidelines for subject matter eligibility. These guidelines, posted on the United States Patent and Trademark Office website**, require a determination of whether the claim(s) **as a whole** are directed to a law of nature, natural phenomenon, or an abstract idea. The office action states that the claims as a whole amounts to providing information through a mobile application to which the applicant strongly disagrees. The transfer of information is merely a step (limitation) in the claim and the claim as a whole cannot be characterized on the basis of a limitation in a claim. The claims as a whole recites significantly more than transfer of information. Therefore, applicant submits that the office action merely points out a limitation in the claim and characterizes the claims on the basis of only a limitation in the claims and not the claim as a whole.

For the reasons presented above, applicant submits that the claims as a whole do not recite an abstract idea and hence passes the first test of not being an abstract idea per the guidelines published in the Federal Register Vol. 79, No. 241, December 16, 2014.

Furthermore, the amended claim also disclose steps which use hardware elements such as processor, calling party device, called party device to perform the computer implemented method.

Accordingly, applicant submits that claims 1-32 qualify as eligible subject matter under 34 U.S.C. 101 and submits that the rejection of claims 1-32 under 35 U.S.C. 101 be reconsidered and withdrawn.

The office action further states: **“Claims 1-5, 7, and 17-21 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Yashioka et al. (U.S. Patent Application Publication No. 20030119520; “Yashioka” hereinafter).”**

In response to the rejection of claims 1, 7, and 17 under 35 U.S.C. 102(a)(1), applicant respectfully submits Yashioka does not teach or suggest all the limitations in amended claim 1. Applicant discloses a computer implemented method for completing an incomplete call made by a calling party to a called party. Amended claim 1 recites a call completion application is executable by at least one processor in a calling party device. The call completion application detects the incomplete call made by the calling party to the called party, where the incomplete call is a call that is not connected to a called party device due to occurrence of one or more of a plurality of events. One or more of a plurality of call completion actions are selectively received from the calling party device to complete the detected incomplete call, the plurality of the call completion actions being selected according to one or more responses provided by said calling party through a graphical user interface of the calling party device. The received one or more of call completion actions are triggered for execution by said call completion application on the calling party device based on one or more of action execution criteria for the completion of detected incomplete call.

Yashioka does not teach or suggest “receiving one or more of a plurality of call completion actions to be performed by said call completion application on said calling party device to complete said detected incomplete call, wherein said plurality of call completion actions are selected according to one or more responses provided by said calling party through a graphical user interface of said calling party device”.

In contrast, Yashioka discloses, *inter alia*, a cellular telephone apparatus for establishing and maintaining a call even in case of a failure in call establishment or call due to a busy state of a called party or a communications channel disorder. In response to a request for call origination for a destination telephone number, a call is originated for the destination telephone number. In case of a failure in the call origination, a call termination process is executed and then the call origination is retried. Retrying the call depends on a change in the state of called party. Further, **“.....one or more of a plurality of call completion actions...” of applicant’s amended claim 1 is not disclosed or suggested in** Yashioka’s **method of** redial by choosing from a plurality of phone numbers. Furthermore, the plurality call completion actions recited in applicant’s amended claim 1 does not depend on a change in state of the called party’s device.

Furthermore, applicant’s amended claim 1 recites that call completion actions comprise setting a reminder to call back said called party at a configurable time, recording media data on said calling party device, transmitting said media data to a called party device, transmitting a missed call alert to said called party device, transmitting a notification of said detected incomplete call to said called party device, transmitting a notification on availability of said called party, transmitting said media data to a social networking platform, transmitting an automated message requesting said called party to call back said calling party when available, and any combination thereof (refer to para [0025] of applicant’s original application).

In contrast, Yashioka discloses, *inter alia*, a call originated for a substitution telephone number as the retrying operation, if busy state of a called telephone terminal is identified by the destination telephone number. The retrying operation is enabled during the failure of call establishment, when the failure is due to communication channel

disorder such as congestion, or weak wave, or busy state of the called party. Therefore, Yashioka fails to teach or suggest the following limitations in amended claim 1:

“detecting said incomplete call made by said calling party to said called party, by said call completion application on said calling party device, wherein said incomplete call is a call that is not connected to a called party device due to occurrence of one or more of a plurality of events”, and

“receiving one or more of a plurality of call completion actions to be performed by said call completion application on said calling party device to complete said detected incomplete call, wherein said plurality of call completion actions are selected according to one or more responses provided by said calling party through a graphical user interface of said calling party device, wherein said call completion actions comprise setting a reminder to call back said called party at a configurable time, recording media data on said calling party device, transmitting said media data to a called party device, transmitting a missed call alert to said called party device, transmitting a notification of said detected incomplete call to said called party device, transmitting a notification on availability of said called party, transmitting said media data to a social networking platform, transmitting an automated message requesting said called party to call back said calling party when available, and any combination thereof”.

Applicant therefore submits that amended claim 1 is not anticipated by Yashioka, and respectfully requests that the rejection of claim 1 under 35 U.S.C. 102(a) (1) be reconsidered and withdrawn.

For the same reason presented for amended claim 1, applicant submits that the corresponding system claim 17 is also not anticipated by Yashioka. Applicant therefore respectfully requests that the rejection of claim 17 under 35 U.S.C. 102(a) (1) be reconsidered and withdrawn.

Claim 7 depends on amended claim 1. Since amended claim 1 is not anticipated by Yashioka, dependent claim 7 is also not anticipated by Yashioka. Applicant therefore respectfully requests that the rejection of claim 7 under 35 U.S.C. 102(a) (1) be reconsidered and withdrawn

Claims 2-5 are dependent on amended claim 1, and claims 18-21 are dependent on amended claim 17. Since amended claims 1 and 17 are not anticipated by Yashioka, applicant submits that dependent claims 2-5 and 18-21 are also not anticipated by Yashioka. Applicant therefore respectfully requests that the rejection of dependent claims 2-5 and 18-21 under 35 U.S.C. 102(a) (1) be reconsidered and withdrawn.

The office action further states: **“Claims 6, 8-10, 13, 14, 16, 22-25, and 28-33 are rejected under 35 U.S.C. 103 as being unpatentable over Yashioka in view of Honig et al. (hereinafter Honig, Pub. No. US 20120201367).”**

Applicant has amended claims 1 and 17 to recite the following limitations recited in original claims 6 and 22:

“wherein said plurality of call completion actions are selected according to one or more responses provided by said calling party through a graphical user interface of said calling party device, wherein said call completion actions comprise setting a reminder to call back said called party at a configurable time, recording media data on said calling party device, transmitting said media data to a called party device, transmitting a missed call alert to said called party device, transmitting a notification of said detected incomplete call to said called party device, transmitting a notification on availability of said called party, transmitting said media data to a social networking platform, transmitting an automated message requesting said called party to call back said calling party when available, and any combination thereof” and

“triggering execution of said received one or more of said call completion actions by said call completion application on said calling party device based on one or more of action execution criteria for said completion of detected incomplete call”.

Amended claim 1 recites **receiving one or more of a plurality of call completion actions to be performed by a call completion application on a calling party device to complete a detected incomplete call. The call completion actions are selected according to one or more responses provided by a calling party through a graphical user interface of the calling party device** (see applicant’s original application, para [0042]). The calling party’s response is received when the calling party selects one or more call completion actions to complete the incomplete call. The calling party selects one or more call completion actions without having to wait for a change in state of the called party’s device.

Yashioka in view of Honig does not teach or suggest **“receiving a response to said generated request from said calling party by said call completion application via said graphical user interface.....”**. In contrast, Honig discloses, *inter alia*, a technology by which a caller can set his or her phone to automatically sense a called party’s telephone line, independent of any carrier-provided monitoring service, **until the line becomes free or caller-configuration limit is reached**. At para [0028], Honig discloses that the user is prompted to inform the line being free, **with a redial option provided**. In order to realize that the line has become available, **the user needs to be looking at the caller device for audible and/or other notifications such as vibration, flashing screen display. The user has to wait till a change of state in the called party’s telephone line, before using the redial option**.

For the reasons stated above, applicant submits that even if of Yashioka and Honig are combined as suggested in the office action, there is no reasonable expectation of success in arriving at applicant’s claim 1, or claim 17, a system claim that is synonymous to claim 1. Therefore, claims 1 and 17 are non-obvious over Yashioka in view of Honig.

Claims 8 depends on claim 7 which further depends on amended claim 1. Since amended claim 1 is non-obvious over Yashioka in view of Honig, applicant submits that amended claim 8 is also non-obvious over Yashioka in view of Honig. Applicant therefore respectfully requests that the rejection of claim 8 under 35 U.S.C. 103 be reconsidered and withdrawn.

For the same reason as presented for Claim 8, the corresponding system claim 23 is non-obvious over Yashioka in view of Honig. Applicant therefore respectfully requests that the rejection of claim 23 under 35 U.S.C. 103 be reconsidered and withdrawn.

For the same reason as presented for Claim 8, the corresponding computer program product claim 32 is non-obvious over Yashioka in view of Honig. Applicant therefore respectfully requests that the rejection of claim 32 under 35 U.S.C. 103 be reconsidered and withdrawn.

Applicant has amended claims 1 and 17 to recite the following limitations recited in original claims 9 and 24:

“wherein said call completion actions comprise setting a reminder to call back said called party at a configurable time, recording media data on said calling party device, transmitting said media data to a called party device, transmitting a missed call alert to said called party device, transmitting a notification of said detected incomplete call to said called party device, transmitting a notification on availability of said called party, transmitting said media data to a social networking platform, transmitting an automated message requesting said called party to call back said calling party when available, and any combination thereof”.

Call completion actions of applicant’s amended claim 1 comprise setting a reminder to call back said called party at a configurable time, recording media data on said calling party device, transmitting said media data to a called party device,

transmitting a missed call alert to said called party device, transmitting a notification of said detected incomplete call to said called party device, transmitting a notification on availability of said called party, transmitting said media data to a social networking platform, transmitting an automated message requesting said called party to call back said calling party when available, and any combination thereof (refer to para [0025] of applicant's patent application).

In contrast, Yashioka discloses, *inter alia*, a call originated for a substitution telephone number as the retrying operation if busy state of a called telephone terminal is identified by the destination telephone number.

Claim 10 depends on amended claim 1. Since amended claim 1 is non-obvious over Yashioka in view of Honig, applicant submits that dependent claim 10 is also non-obvious over Yashioka in view of Honig. Applicant therefore respectfully requests that the rejection of claim 10 under 35 U.S.C. 103 be reconsidered and withdrawn.

For the same reason as presented for Claim 10, the corresponding system claim 25 is also non-obvious over Yashioka in view of Honig. Applicant therefore respectfully requests that the rejection of claim 25 under 35 U.S.C. 103 be reconsidered and withdrawn.

Claims 13 and 28 are canceled herein rendering the rejection moot.

In response to rejection of claim 29, applicant submits that claim 29 is a computer program product corresponding to amended claim 1. Since amended claim 1 is non-obvious over Yashioka in view of Honig, applicant submits that claim 29 is also non-obvious over Yashioka in view of Honig. Applicant therefore respectfully requests that the rejection of claim 29 under 35 U.S.C. 103 be reconsidered and withdrawn.

Claim 14 is canceled herein rendering the rejection moot.

Claim 30 depends on claim 29. Since claim 30 is non-obvious over Yashioka in view of Honig, applicant submits that claim 30 is also non-obvious over Yashioka in view of Honig. Applicant therefore respectfully requests that the rejection of claim 30 under 35 U.S.C. 103 be reconsidered and withdrawn.

Claims 16, 31 and 33 are canceled herein rendering the rejection moot.

The office action further states: “**Claims 11 and 26 are rejected under 35 U.S.C. 103 as being unpatentable over Yashioka in view of Ybarra et al. (Ybarra hereinafter, Pub. No. US 20060242588)**”

Applicant’s claims 11 and 26 recites: “determining a mode of transmission of media data from said calling party device to a called party device via a network, by said call completion application on said calling party device **based on one or more of said action execution criteria**”.

In contrast, Yabarra discloses a system for a portable device. The portable device may include reception of a schedule for the transmission of data to an external device, determination, **based at least in part on the schedule, that the data is to be transmitted**, and, in response to the determination, transmission of the data from the portable device to the external device.

Therefore, claims 11 and 26 are non-obvious over Yashioka in view of Ybarra. Applicant therefore respectfully requests that the rejections of claims 11 and 26 under 35 U.S.C. 103 be reconsidered and withdrawn.

The office action further states: “**Claims 12 and 27 are rejected under 35 U.S.C. 103 as being unpatentable over Yashioka in view of Contractor et al. (Contractor hereinafter, Pub. No. US 20020101970).**”

Applicant’s claims 12 and 27 recite: “.....**monitoring said incomplete call by said call completion application on said calling party device as said incomplete call**”

progresses from said incomplete call being initiated, said incomplete call being one of answered and rejected, and said incomplete call being terminated”. Paragraph [0024] of applicant’s original application discloses that the call completion application on the calling party device monitors the incomplete call as the incomplete call progresses from the incomplete call being initiated, the incomplete call being answered or rejected, and the incomplete call being terminated. An incomplete call in applicant’s original patent application is a call made by a calling party to a called party, that is not received or completed by the called party, or not connected to the called party device due to the occurrence of one or more of multiple events comprising, for example, the called party being busy, the called party device being in an out of coverage area, the called party device being unreachable, the called party device being switched off, network congestion, the call not being answered by the called party, etc.

Yashioka in view of Contractor does not teach or suggest the above limitation.

In contrast, Contractor at paragraph [0059] discloses, *inter alia*, a process which provides indication to the calling party that it is attempting to complete a call from the called party. The indication is voice synthesis. The **process prompts the called party for connection selection** (e.g., “You have received a call from [the calling party]. Would you like to proceed with this call? Say “yes” or press “1” to proceed with this call. Say “no” or press “2” to reject this call”). If the calling party selects to connect (i.e., proceed with the call), the call is connected with the calling party.

Therefore, even if Yashioka and Contractor are combined as suggested in the office action, the combination will not teach or suggest several limitations in amended claims 12 and 27. Therefore, claims 12 and 27 are non-obvious over Yashioka in view of Contractor. Applicant therefore respectfully requests that the rejections of claim 12 under 35 U.S.C. 103 be reconsidered and withdrawn.

The office action further states “**Claims 15 and 34 are rejected under 35 U.S.C. 103 as being unpatentable over Yashioka in view of Honig further in view of Ybarra.**”

Claim 15 is canceled; accordingly the rejection of claim 15 is moot.

Claim 34 depends on amended computer program product claim 29 which corresponds to amended independent claim 1. Even if Yashioka, Honig and Ybarra are combined, the combination will not teach or suggest all the limitations in amended claims 1 and 29. Therefore, amended claims 1 and 29 are not anticipated by Yashioka in view of Honig further in view of Ybarra.

Therefore, claim 34 is non-obvious over Yashioka in view of Honig and Ybarra. Applicant therefore respectfully requests that the rejections of claim 24 under 35 U.S.C. 103 be reconsidered and withdrawn.

Conclusion

Applicant respectfully requests that a timely Notice of Allowance be issued in this case. In the interest of compact prosecution, if the prosecution of the application can be advanced or if a claim may be made potentially allowable by an Examiner's amendment, applicant requests Examiner Bezuayehu to call the undersigned with the proposed amendment.

Respectfully submitted,

Date: July 27, 2015

/s tankha/
Ashok Tankha
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Electronic Acknowledgement Receipt

EFS ID:	23038630
Application Number:	14105158
International Application Number:	
Confirmation Number:	1097
Title of Invention:	Sender Driven Call Completion System
First Named Inventor/Applicant Name:	Inderpal Singh Mumick
Correspondence Address:	Ashok Tankha - 36 Greenleigh Drive - Sewell NJ 08080 US 8562665145 ash@ipprocurement.com
Filer:	Ashok Tankha
Filer Authorized By:	
Attorney Docket Number:	KIRU-12NP-US
Receipt Date:	27-JUL-2015
Filing Date:	12-DEC-2013
Time Stamp:	23:21:01
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 300

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Amendment to the Claims

Claim 1 (currently amended): A computer implemented method for completing an incomplete call made by a calling party to a called party, comprising:

providing a call completion application executable by at least one processor on a calling party device;

detecting said incomplete call made by said calling party to said called party, by said call completion application on said calling party device, wherein said incomplete call is a call that is not connected to a called party device due to occurrence of one or more of a plurality of events;

~~determining~~ receiving one or more of a plurality of call completion actions to be performed by said call completion application on said calling party device to complete said detected incomplete call, wherein said plurality of call completion actions are selected according to one or more responses provided by said calling party through a graphical user interface of said calling party device, wherein said call completion actions comprise setting a reminder to call back said called party at a configurable time, recording media data on said calling party device, transmitting said media data to a called party device, transmitting a missed call alert to said called party device, transmitting a notification of said detected incomplete call to said called party device, transmitting a notification on availability of said called party, transmitting said media data to a social networking platform, transmitting an automated message requesting said called party to call back said calling party when available, and any combination thereof;
and

triggering execution of said ~~determined~~ received one or more of said call completion actions by said call completion application on said calling party

device based on one or more of action execution criteria for said completion of detected incomplete call.

Claim 2 (currently amended): The computer implemented method of claim 1, ~~wherein said incomplete call is a call that is not connected to a called party device due to occurrence of one or more of a plurality of events,~~ wherein said events comprise said called party being busy, said called party device being in an out of coverage area, said called party device being unreachable, said called party device being switched off, network congestion, and said call not being answered by said called party.

Claim 3 (currently amended): The computer implemented method of claim 1, wherein said incomplete call is a call of a short duration that does not enable an intended communication to occur between said calling party and said called party.

Claim 4 (currently amended): The computer implemented method of claim 1, wherein said one or more of said call completion actions are ~~determined~~ received by said call completion application based on a duration of said detected incomplete call.

Claim 5 (currently amended): The computer implemented method of claim 1, wherein said action execution criteria comprise configuration of said call completion actions on said calling party device, one of a presence and an absence of one or more of a message box and a messaging application for receiving media data on one of a network account of said called party and a called party device, one of a presence and an absence of a data connection from said calling party device to a network, one of a presence and an absence of a messaging service in a network component of said called party, one of a presence and an absence of a messaging service in a network component of said calling party, reach of said messaging service to deliver said media data to one of said network component of said called party and said called party device, network options provided to said calling party device and said called party device by said network to which said

calling party device and said called party device are connected, and call completion preferences configured by said call completion application on said calling party device.

Claim 6 (canceled)

Claim 7 (currently amended): The computer implemented method of claim 1, wherein said ~~determination of said~~ one or more of said call completion actions to be performed by said call completion application on said calling party device to complete said detected incomplete call is based on one or more of configurable criteria configured by said calling party.

Claim 8 (currently amended): The computer implemented method of claim 7, wherein said configurable criteria configured by said calling party comprise ~~user configuration of said call completion application on said calling party device~~, call settings configured on said calling party device, network characteristics, and device characteristics.

Claim 9 (canceled)

Claim 10 (currently amended): The computer implemented method of claim [[9]] 1, wherein said media data comprises one of text data, audio data, video data, audiovisual data, image data, multimedia data, message data, and any combination thereof.

Claim 11 (currently amended): The computer implemented method of claim 1, further comprising determining a mode of transmission of media data from said calling party device to a called party device via a network, by said call completion application on said calling party device based on one or more of said action execution criteria.

Claim 12 (currently amended): The computer implemented method of claim 1, further comprising monitoring said incomplete call by said call completion application on said calling party device as said incomplete call progresses from said incomplete call being

initiated, said incomplete call being one of answered and rejected, and said incomplete call being terminated.

Claim 13 (canceled)

Claim 14 (canceled)

Claim 15 (canceled)

Claim 16 (canceled)

Claim 17 (currently amended): A computer system for completing an incomplete call made by a calling party to a called party, comprising:

a non-transitory computer readable storage medium configured to store a call completion application on a calling party device;

at least one processor communicatively coupled to said non-transitory computer readable storage medium, said at least one processor configured to execute said call completion application on said calling party device; and

said call completion application on said calling party device, comprising:

a call detection module configured to detect said incomplete call made by said calling party to said called party;

an action determination module configured to ~~determine~~ receive one or more of a plurality of call completion actions to be performed to complete said detected incomplete call wherein said plurality of call completion actions are selected according to one or more responses provided by said calling party through a graphical user interface of said calling party

device, and wherein said call completion actions comprise setting a reminder to call back said called party at a configurable time, recording media data on said calling party device, transmitting said media data to a called party device, transmitting a missed call alert to said called party device, transmitting a notification of said detected incomplete call to said called party device, transmitting a notification on availability of said called party, transmitting said media data to a social networking platform, transmitting an automated message requesting said called party to call back said calling party when available, and any combination thereof; and

an action execution module configured to trigger execution of said ~~determined~~ received one or more of said call completion actions based on one or more of action execution criteria one or more responses selected by said calling party for said completion of said detected incomplete call.

Claim 18 (currently amended): The computer system of claim 17, wherein said incomplete call is a call that is not connected to a called party device due to occurrence of one or more of a plurality of events, wherein said events comprise said called party being busy, said called party device being in an out of coverage area, said called party device being unreachable, said called party device being switched off, network congestion, and said call not being answered by said called party.

Claim 19 (currently amended): The computer system of claim 17, wherein said incomplete call is a call of a short duration that does not enable an intended communication to occur between said calling party and said called party.

Claim 20 (currently amended): The computer system of claim 17, wherein said action determination module is further configured to ~~determine~~ receive said one or more of said call completion actions based on a duration of said detected incomplete call.

Claim 21 (currently amended): The computer system of claim 17, wherein said action execution criteria comprise configuration of said call completion actions on said calling party device, one of a presence and an absence of one or more of a message box and a messaging application for receiving media data on one of a network account of said called party and a called party device, one of a presence and an absence of a data connection from said calling party device to a network, one of a presence and an absence of a messaging service in a network component of said called party, one of a presence and an absence of a messaging service in a network component of said calling party, reach of said messaging service to deliver said media data to one of said network component of said called party and said called party device, network options provided to said calling party device and said called party device by said network to which said calling party device and said called party device are connected, and call completion preferences configured by said call completion application on said calling party device.

Claim 22 (canceled)

Claim 23 (currently amended): The computer system of claim 17, wherein said action determination module is further configured to ~~determine~~ receive said one or more of said call completion actions to be performed to complete said detected incomplete call based on one or more of configurable criteria, wherein said configurable criteria configured by said calling party comprise ~~user configuration of said call completion application on said calling party device~~, call settings configured on said calling party device, network characteristics, and device characteristics.

Claim 24 (canceled)

Claim 25 (currently amended): The computer system of claim ~~[[24]]~~ 17, wherein said media data comprises one of text data, audio data, video data, audiovisual data, image data, multimedia data, message data, and any combination thereof.

Claim 26 (currently amended): The computer system of claim 17, wherein said action execution module is further configured to determine a mode of transmission of media data from said calling party device to a called party device via a network based on one or more of said action execution criteria.

Claim 27 (currently amended): The computer system of claim 17, wherein said call detection module is further configured to monitor said incomplete call on said calling party device as said incomplete call progresses from said incomplete call being initiated, said incomplete call being one of answered and rejected, and said incomplete call being terminated.

Claim 28 (canceled)

Claim 29 (currently amended): A computer program product comprising a non-transitory computer readable storage medium, said non-transitory computer readable storage medium storing computer program codes that comprise instructions executable by at least one processor, said computer program codes comprising:

a first computer program code for detecting an incomplete call from a calling party device to a called party device, wherein said incomplete call is one of a call that is not connected to said called party device and a call of short duration;

a second computer program code for ~~determining~~ receiving one or more of a plurality of call completion actions to be performed to complete said detected incomplete call, wherein said plurality of call completion actions are selected according to one or more responses provided by said calling party through a graphical user interface of said calling party device, wherein said call completion actions comprise setting a reminder to call back said called party at a configurable time, recording media data on said calling party device, transmitting said media data to a called party device, transmitting a missed call alert to said called party device, transmitting a notification of said detected incomplete call to said called

party device, transmitting a notification on availability of said called party, transmitting said media data to a social networking platform, transmitting an automated message requesting said called party to call back said calling party when available, and any combination thereof; and

a third computer program code for triggering execution of said ~~determined~~ received one or more of said call completion actions based on one or more of action execution criteria for said completion of said detected incomplete call.

Claim 30 (original): The computer program product of claim 29, wherein said action execution criteria comprise configuration of said call completion actions on said calling party device, one of a presence and an absence of one or more of a message box and a messaging application for receiving media data on one of a network account of a called party and said called party device, one of a presence and an absence of a data connection from said calling party device to a network, one of a presence and an absence of a messaging service in a network component of said called party, one of a presence and an absence of a messaging service in a network component of said calling party, reach of said messaging service to deliver said media data to one of said network component of said called party and said called party device, network options provided to said calling party device and said called party device by said network to which said calling party device and said called party device are connected, and call completion preferences configured on said calling party device.

Claim 31 (canceled)

Claim 32 (currently amended): The computer program product of claim 29, wherein said second computer program code is configured to ~~determine~~ receive said one or more of said call completion actions to be performed to complete said detected incomplete call based on one or more of configurable criteria, wherein said configurable criteria comprise user configuration of said call completion application on said calling party device, call

settings configured on said calling party device, network characteristics, and device characteristics.

Claim 33 (canceled)

Claim 34 (original): The computer program product of claim 29, wherein said computer program codes further comprise a seventh computer program code for determining a mode of transmission of media data from said calling party device to said called party device via a network based on one or more of said action execution criteria.

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 14/105,158		Filing Date 12/12/2013		☐ To be Mailed		
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO										
APPLICATION AS FILED – PART I										
(Column 1)		(Column 2)								
FOR	NUMBER FILED	NUMBER EXTRA			RATE (\$)	FEE (\$)				
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A			N/A					
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A			N/A					
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A			N/A					
TOTAL CLAIMS (37 CFR 1.16(i))	34 minus 20 =	* 14			x \$40 =	560				
INDEPENDENT CLAIMS (37 CFR 1.16(h))	5 minus 3 =	* 2			x \$210 =	420				
☐ 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	980				
APPLICATION AS AMENDED – PART II										
(Column 1)		(Column 2)		(Column 3)						
AMENDMENT	07/27/2015	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))	* 23	Minus	** 34	= 0	x \$40 =		0		
	Independent (37 CFR 1.16(h))	* 3	Minus	***5	= 0	x \$210 =		0		
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						TOTAL ADD'L FEE		0		
(Column 1)		(Column 2)		(Column 3)						
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))	*	Minus	**	=	x \$ =				
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x \$ =				
	☐ 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. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.										

LIE
/GLENN BURNS JR/

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.

<i>Index of Claims</i> 	Application/Control No. 14105158	Applicant(s)/Patent Under Reexamination MUMICK ET AL.
	Examiner SOLOMON BEZUAYEHU	Art Unit 2653

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

☐ Claims renumbered in the same order as presented by applicant		☐ CPA		☐ T.D.		☐ R.1.47			
CLAIM		DATE							
Final	Original	02/23/2015	08/08/2015						
1	1	✓	=						
2	2	✓	=						
3	3	✓	=						
4	4	✓	=						
5	5	✓	=						
	6	✓	-						
6	7	✓	=						
7	8	✓	=						
	9	✓	-						
8	10	✓	=						
9	11	✓	=						
10	12	✓	=						
	13	✓	-						
	14	✓	-						
	15	✓	-						
	16	✓	-						
11	17	✓	=						
12	18	✓	=						
13	19	✓	=						
14	20	✓	=						
15	21	✓	=						
	22	✓	-						
16	23	✓	=						
	24	✓	-						
17	25	✓	=						
18	26	✓	=						
19	27	✓	=						
	28	✓	-						
20	29	✓	=						
21	30	✓	=						
	31	✓	-						
22	32	✓	=						
	33	✓	-						
23	34	✓	=						



UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590
ASHOK TANKHA
36 GREENLEIGH DRIVE
SEWELL, NJ 08080

08/19/2015

EXAMINER

BEZUAYEHU, SOLOMON G

ART UNIT

PAPER NUMBER

2653

DATE MAILED: 08/19/2015

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/105,158	12/12/2013	Inderpal Singh Mumick	KIRU-12NP-US	1097

TITLE OF INVENTION: Sender Driven Call Completion System

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0	\$0	\$480	11/19/2015

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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

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

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

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or **Fax** (571)-273-2885

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

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

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

7590 08/19/2015
ASHOK TANKHA
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Certificate of Mailing or Transmission

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

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/105,158	12/12/2013	Inderpal Singh Mumick	KIRU-12NP-US	1097

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nonprovisional	SMALL	\$480	\$0	\$0	\$480	11/19/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
BEZUAYEHU, SOLOMON G	2653	379-088230

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

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

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

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

(A) NAME OF ASSIGNEE

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

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

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

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

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

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

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

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

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

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

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



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08/19/2015

EXAMINER

BEZUAYEHU, SOLOMON G

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

2653

DATE MAILED: 08/19/2015

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

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

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

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

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

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

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 14/105,158	Applicant(s) MUMICK ET AL.	
	Examiner SOLOMON BEZUAYEHU	Art Unit 2653	AIA (First Inventor to File) Status Yes

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

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

1. ☒ This communication is responsive to amendment filed on 07/27/2015.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

3. ☒ The allowed claim(s) is/are 1-5, 7, 8, 10-12, 17-21, 23, 25-27, 29-30, 32, and 34. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

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

Certified copies:

a) ☐ All b) ☐ Some *c) ☐ None of the:

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

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

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

* Certified copies not received: _____.

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

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

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

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

Attachment(s)

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

/SOLOMON BEZUAYEHU/ Examiner, Art Unit 2653	
--	--

DETAILED ACTION

REASONS FOR ALLOWANCE

1. Claims 1-5, 7-8, 10-12, 17-21, 23, 25-27, 29-30, 32 and 34 are allowed.

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

2. Independent claim 1 is allowable over the cited art for reasons discloses below:

The cited references are: Yashioka et al. (Pub. No. US 20030119520), Tal et al. (Pub. No. US 20070047695), and Anderl et al. (Pub. No. US 20090143085).

Yashioka teaches redialing the telephone number in response to the first attempt being unsuccessful.

Tal teaches providing a menu for the caller to choose call completion service in response to uncompleted call.

Anderl teaches creating and sending a message in response to the call attempt being unsuccessful.

However, the prior arts in the record alone or in combination fail to teach, "plurality of call completion actions are selected according to one or more responses provided by said calling party through a graphical user interface of said calling party device, wherein said call completion actions comprise setting a reminder to call back said called party at a configurable time, recording media data on said calling party device, transmitting said media data to a called party device, transmitting a missed call alert to said called party device, transmitting a notification of said detected incomplete call to

said called party device, transmitting a notification on availability of said called party, transmitting said media data to a social networking platform, transmitting an automated message requesting said called party to call back said calling party when available”

Independent claims 17 and 29 are allowed for the same reason as claim 1.

Dependent claims 2-5, 7-8, 10-12, 18-21, 23, 25-27, 30, 32, and 34 are allowed for being dependent on claims 1, 17, and 29.

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

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to SOLOMON BEZUAYEHU whose telephone number is (571)270-7452. The examiner can normally be reached on Monday through Friday 9 a.m-4 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, FAN TSANG can be reached on 571-272-7547. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/SOLOMON BEZUAYEHU/

Examiner, Art Unit 2653

Notice of References Cited	Application/Control No. 14/105,158		Applicant(s)/Patent Under Reexamination MUMICK ET AL.	
	Examiner SOLOMON BEZUAYEHU		Art Unit 2653	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,577,881 B1	06-2003	Ehara, Tatsuji	455/563
*	B	US-2004/0086100 A1	05-2004	Moore et al.	379/201.01
*	C	US-2006/0013195 A1	01-2006	Son et al.	370/352
*	D	US-7,020,269 B1	03-2006	Park et al.	379/355.01
*	E	US-2007/0047695 A1	03-2007	Tal et al.	379/067.1
*	F	US-2009/0143085 A1	06-2009	Anderl et al.	455/466
*	G	US-8,880,120 B1	11-2014	Lavian et al.	455/556.1
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	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.

EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	525	(option or menu or select\$5) with call with (un\$complet\$5 or in\$complet\$6 or (no\$2 near answer\$5))	US-PGPUB; USPAT	ADJ	OFF	2015/08/08 21:07
L3	106	2 and re\$dial\$4	US-PGPUB; USPAT	ADJ	OFF	2015/08/08 21:10
L4	105	3 and (@ad<"20121214" or @rlad<"20121214" or @ptad<"20121214")	US-PGPUB; USPAT	ADJ	OFF	2015/08/08 21:11
L9	9655	(option or menu or select\$5 or prompt\$5) with call with (un\$complet\$5 or in\$complet\$6 or (no\$2 near answer\$5) or answer\$3)	US-PGPUB; USPAT	ADJ	OFF	2015/08/08 21:15
L10	83	9 same re\$dial\$4	US-PGPUB; USPAT	ADJ	OFF	2015/08/08 21:15

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L7	52	((option or menu or select\$5 or prompt\$5) with call with (un\$complet\$5 or in\$complet\$6 or (no\$2 near answer\$5))).clm.	USPAT; UPAD	ADJ	OFF	2015/08/08 21:13
L8	51	7 and (@ad<"20121214" or @rlad<"20121214" or @ptad<"20121214")	USPAT; UPAD	ADJ	OFF	2015/08/08 21:14

8/ 8/ 2015 9:39:43 PM

C:\Users\sbezuayehu\Documents\EAST\Workspaces\14105158.wsp

Issue Classification 	Application/Control No. 14105158	Applicant(s)/Patent Under Reexamination MUMICK ET AL.
	Examiner SOLOMON BEZUAYEHU	Art Unit 2653

☐ Claims renumbered in the same order as presented by applicant															
☐ CPA															
☐ T.D.															
☐ R.1.47															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	11	17		33										
2	2	12	18	23	34										
3	3	13	19												
4	4	14	20												
5	5	15	21												
	6		22												
6	7	16	23												
7	8		24												
	9	17	25												
8	10	18	26												
9	11	19	27												
10	12		28												
	13	20	29												
	14	21	30												
	15		31												
	16	22	32												

		Total Claims Allowed:	
(Assistant Examiner)		23	
(Date)			
/SOLOMON BEZUAYEHU/ Examiner.Art Unit 2653	08/08/2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Search Notes 	Application/Control No. 14105158	Applicant(s)/Patent Under Reexamination MUMICK ET AL.
	Examiner SOLOMON BEZUAYEHU	Art Unit 2653

CPC- SEARCHED		
Symbol	Date	Examiner
(H04M1/274575 OR H04W28/04 OR H04W76/02 OR H04W76/06 OR H04W84/042).CPC.	8/8/2015	Bezuayehu

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
379	88.01-88.23	8/8/2015	bezuayehu
455	465, 466	8/8/2015	bezuayehu

SEARCH NOTES		
Search Notes	Date	Examiner
PGPUB;EPO;JPO;USPAT	8/8/2015	bezaueyhu

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
379	88.01-88.23	8/8/2015	bezuayehu

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Electronic Acknowledgement Receipt

EFS ID:	23685343
Application Number:	14105158
International Application Number:	
Confirmation Number:	1097
Title of Invention:	Sender Driven Call Completion System
First Named Inventor/Applicant Name:	Inderpal Singh Mumick
Correspondence Address:	ASHOK TANKHA - 36 GREENLEIGH DRIVE - SEWELL NJ 08080 US 8562665145 ash@ipprocurement.com
Filer:	Ashok Tankha
Filer Authorized By:	
Attorney Docket Number:	KIRU-12NP-US
Receipt Date:	05-OCT-2015
Filing Date:	12-DEC-2013
Time Stamp:	00:59:35
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 480

RAM confirmation Number	7569				
Deposit Account	503291				
Authorized User	TANKHA, ASHOK				
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)					
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	KIRU-12NP- US_Issue_Fee_Form.pdf	187674	no	1
			2d8979065632e1b5a9462810883069306f4acd15		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30094	no	2
			d2a0e9778b411a1f556ee8312b46dfd2ef2203a5		
Warnings:					
Information:					
Total Files Size (in bytes):			217768		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

Electronic Patent Application Fee Transmittal				
Application Number:		14105158		
Filing Date:		12-Dec-2013		
Title of Invention:		Sender Driven Call Completion System		
First Named Inventor/Applicant Name:		Inderpal Singh Mumick		
Filer:		Ashok Tankha		
Attorney Docket Number:		KIRU-12NP-US		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Utility Appl Issue Fee	2501	1	480	480

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

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax **(571)-273-2885**

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

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

ASHOK TANKHA
36 GREENLEIGH DRIVE
SEWELL, NJ 08080

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 transmittal.

Certificate of Mailing or Transmittal

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

Depositor's name:
(Signature):
DATE:

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY'S DOC. REF. NO.	CONFIRMATION NO.
140/05,158	12/12/2013	Jinderpal Singh Muncuk	KIRU-12NP-US	1097

TITLE OF INVENTION: Sender Driven Call Completion System

APPL. TYPE	ENTITY STATUS	ISSUE FEE DTL	PUBLICATION FEE DTL	ISSUE FEE DTL	TOTAL FEE(S) DTL	DATE DUE
nonprovisional	SMALL	5480	50	50	3480	11/19/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
DEZUAYEIRA, SOLOMON G	2653	379-088240

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

- ☐ Change of correspondence address for Change of Correspondence Address form PTO/SB/122 attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1. Ash Tankha
2. Lipton, Weinberger & Husick
3. _____

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

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 1.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

Kirusa, Inc.

(B) RESIDENCE (CITY and STATE OR COUNTRY)

New Providence, New Jersey, USA

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☒ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first resupply any previously paid issue fee shown above)

- ☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2018 is attached.
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form)

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

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

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

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

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

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

Authorized Signature /s/ tankha/

Date 05 October 2015

Typed or printed name Ashok Tankha

Registration No. 33802

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99) Change(s) applied to document,	Application Number		14105158	
	Filing Date		2013-12-12	
	First Named Inventor	Inderpal Singh Mumick		
	Art Unit	NA 2653		
	Examiner Name	NA /Solomon Bezuayehu/		
Attorney Docket Number		KIRU-12NP-US		

/J.E.B./

8/27/2015

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	6064874	A	2000-05-16	~~Cox, et al.~~ Metro One Telecommunications, Inc.	

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

Add

U.S. PATENT APPLICATION PUBLICATIONS						Remove
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20030112945	A1	2003-06-19	Wendell Brown et al.	
	2	20060104429	A1	2006-05-18	Wim Wouterse et al.	
	3	20100296644	A1	2010-11-25	Alfonso Pisani et al.	
	4	20090143085	A1		Kirusa Inc.	

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

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FOREIGN PATENT DOCUMENTS								Remove
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² j	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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UNITED STATES DEPARTMENT OF COMMERCE
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/105,158	11/10/2015	9185227	KIRU-12NP-US	1097

7590 10/21/2015
ASHOK TANKHA
36 GREENLEIGH DRIVE
SEWELL, NJ 08080

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):

Kirusa, Inc., New Providence, NJ;
Inderpal Singh Mumick, Berkely Heights, NJ;
Surinder Singh Anand, Highland Park, NJ;
Raja N. Moorthy, Fairless Hills, PA;

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APPLICATION NUMBER	PATENT NUMBER	GROUP ART UNIT	FILE WRAPPER LOCATION
14/105,158	9185227	2653	9200



Correspondence Address/Fee Address Change

The following fields have been set to Customer Number 64188 on 07/17/2020

- Correspondence Address
- Maintenance Fee Address

The address of record for Customer Number 64188 is:

64188
ASHOK TANKHA
36 GREENLEIGH DRIVE
SEWELL, NJ 08080

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court **for the Eastern District of Texas, Marshall Division** on the following

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

DOCKET NO. 2:21-cv-00437	DATE FILED 11/29/2021	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF MULTIMODAL MEDIA LLC		DEPENDANT ZTE CORPORATION
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 7,929,949	4/19/2011	Multimodal Media LLC
2 8,107,978	1/31/2012	Multimodal Media LLC
3 9,185,227	11/10/2015	Multimodal Media LLC
4 10,552,030	2/4/2020	Multimodal Media LLC
5		

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

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE

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

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
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☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:21-cv-00436	DATE FILED 11/29/2021	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF MULTIMODAL MEDIA LLC		DEPENDANT GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 7,929,949	4/19/2011	Multimodal Media LLC
2 8,107,978	1/31/2012	Multimodal Media LLC
3 9,185,227	11/10/2015	Multimodal Media LLC
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