

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
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EPAS ID: PAT7410106

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	RELEASE OF SECURITY INTEREST IN INTELLECTUAL PROPERTY RECORDED AT 036099/0682

**CONVEYING PARTY DATA**

Name	Execution Date
SILICON VALLEY BANK	06/24/2022

**RECEIVING PARTY DATA**

<b>Name:</b>	INTERACTIONS LLC
<b>Street Address:</b>	31 HAYWARD STREET,
<b>Internal Address:</b>	SUITE E,
<b>City:</b>	FRANKLIN
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02038

**PROPERTY NUMBERS Total: 11**

Property Type	Number
Application Number:	10839536
Application Number:	12551864
Application Number:	12618742
Application Number:	12618743
Application Number:	12985174
Application Number:	13070865
Application Number:	13708264
Application Number:	13935230
Application Number:	13936440
Application Number:	14136003
Application Number:	14050658

**CORRESPONDENCE DATA**

Fax Number:

*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.*

Phone: 3124564206

Email: rsiddiqui@sidley.com

Correspondent Name: RAZA SIDDIQUI

Address Line 1: ONE SOUTH DEARBORN

PATENT

**Address Line 2:** SIDLEY AUSTIN LLP  
**Address Line 4:** CHICAGO, ILLINOIS 60603

**ATTORNEY DOCKET NUMBER:** 100107-30130

**NAME OF SUBMITTER:** RAZA SIDDIQUI

**SIGNATURE:** /razasiddiqui/

**DATE SIGNED:** 06/30/2022

**Total Attachments: 37**

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## RELEASE OF SECURITY INTEREST IN INTELLECTUAL PROPERTY

This Release of Security Interest in Intellectual Property (“**Release**”) is made as of June 24, 2022, (“**Effective Date**”) by **SILICON VALLEY BANK**, a California corporation (“**Bank**”) in favor of **INTERACTIONS LLC**, a Delaware limited liability company (“**Grantor**”). Capitalized terms used but not otherwise defined herein have the meaning given to them in the applicable IP Security Agreement (as defined below).

### Recitals

**WHEREAS**, pursuant to (i) that certain Amended and Restated Loan and Security Agreement, dated as of February 25, 2014, between Bank and the Grantor, as amended, restated, amended and restated, supplemented or otherwise modified from time to time (the “**AR LSA**”), (ii) that certain Second Amended and Restated Loan and Security Agreement, dated as of June 29, 2017, by and among the Bank, the Grantor, and Interactions Corporation (the “**Parent**”), as amended, restated, amended and restated, supplemented or otherwise modified from time to time (the “**2nd AR LSA**”), which amends and restates the AR LSA in its entirety, and (iii) that certain Mezzanine Loan and Security Agreement, dated as of June 3, 2019, by and among the Bank, the Grantor, and the Parent, as amended, restated, amended and restated, supplemented or otherwise modified from time to time (the “**Mezz LSA**”, and together with the AR LSA and 2nd AR LSA, each a “**Loan Agreement**” and collectively, the “**Loan Agreements**”), Bank agreed to make certain advances of money and to extend certain financial accommodations to Grantor and the Parent and certain other parties in the amounts and manner set forth in the Loan Agreement;

**WHEREAS**, pursuant to the Loan Agreements, Grantor executed those certain agreements described on Annex I attached hereto (the “**IP Security Agreements**”), in favor of Bank, whereby Grantor granted to Bank a security interest in all of the Intellectual Property Collateral, including, without limitation those properties listed on Annex II attached hereto, to secure the Obligations (as defined in the applicable Loan Agreement); and

**WHEREAS**, Grantor has requested Bank release its security interest in all right, title and interest in, to and under all of the Intellectual Property Collateral, terminate the IP Security Agreements, and reassign its interest to Grantor.

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and upon the terms set forth in this Release, Bank hereby agrees as follows:

### Agreement

1. Bank hereby terminates the IP Security Agreements and releases, terminates and discharges, without representation, recourse or warranty whatsoever, all of its rights in, to and under, including its security interest in, and right of setoff against, all of the Intellectual Property Collateral, whether granted in connection with the Loan Agreement, the IP Security Agreements or any other agreement or document delivered in connection with any Loan Agreement or any IP Security Agreement, and Bank hereby reassigns any and all right, title and interest (if any) that Bank may have in, to or under all of the Intellectual Property Collateral to Grantor.
2. Bank agrees, at Grantor’s expense, to cooperate with Grantor and to provide Grantor with the

information and additional authorization reasonably required or desirable to effect the release of Bank's security interest in the released Intellectual Property Collateral described herein.


3. Bank authorizes Grantor or Grantor's authorized representative or designee to record this Release with the United States Patent and Trademark Office and U.S. Copyright Office or any other governmental entities as evidence of such release and termination.

[Signature Page to Follow]

IN WITNESS WHEREOF, the parties have executed this Release of Security Interest In Intellectual Property Agreement by their duly authorized signatories as of the Effective Date.

BANK:

SILICON VALLEY BANK

  
Name: FRANK GRECCIA  
Title: Director  
Date: 6/24/22

## ANNEX I

### **TRADEMARKS**

Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Reel/Frame: 6665/0001 Executed on June 3, 2019)

Amended and Restated Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Reel/Frame: 6094/0225 Executed on June 29, 2019)

### **PATENTS**

Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Reel/Frame: 036099/0682 Executed on Dec 15, 2014)

First Amendment to Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Reel/Frame: 036100/0925 Executed on July 09, 2015)

Amended and Restated Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Reel/Frame: 043039/0808 Executed on June 29, 2017)

Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Reel/Frame: 049388/0082 Executed on June 03, 2019)

First Amendment to Amended and Restated Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Reel/Frame: 049388/0152 Executed on June 03, 2019)

Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Reel/Frame: 049387/0687 Executed on June 03, 2019)

Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Reel/Frame: 056735/0713 Executed on May 27, 2021)

Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Reel/Frame: 056735/0728 Executed on May 27, 2021)

### **COPYRIGHTS**

Amended and Restated Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Volume 9947 Document 233 Executed on June 29, 2017)

Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Volume 9981 Document 932 Executed on June 3, 2019)

First Amendment to Amended and Restated Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Volume 9981 Document 933 Executed on June 3, 2019)

Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Volume 9974 Document 436 Executed on June 3, 2019)

Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Volume 9970

Document 854 Executed on June 3, 2019)

**ANNEX 2**

**TRADEMARKS**

Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Reel/Frame: 6665/0001 Executed on June 3, 2019)

<u>Description</u>	Registration/ Application Number	Registration/ Application Date
CURO	5049031	September 27, 2016
HUMANTOUCH	4248289	November 27, 2012

Amended and Restated Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Reel/Frame: 6094/0225 Executed on June 29, 2019)

<u>Description</u>	Registration/ Application Number	Registration/ Application Date
UNDERSTANDING ENABLED	3965227	5/24/2011
HUMANTOUCH	4248289	11/27/2012
CURO	5049031	9/27/2016



**PATENTS**

Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Reel/Frame: 036099/0682 Executed on Dec 15, 2014)

FILE #	TITLE	SERIAL #	FILING DATE	PATENT #	GRANT DATE	STATUS
28151-18387/AU	Apparatus and Method for Processing Service Interactions	2004237227	5/5/04	2004237227	10/27/11	Issued
28151-18387/EP	Apparatus and Method for Processing Service Interactions	47513635	5/5/04			Pending
28151-18387/IN	A Method for Operating an Interactive Response System	2875CHENP2005	5/5/04	245680	01/28/11	Issued
28151-18387/NZ	Apparatus and Method for Processing Service Interactions	543885	5/5/04	543885	01/07/10	Issued
28151-18387/US	Apparatus and Method for Processing Service Interactions	10639536	5/5/04	7606718	10/20/09	Issued
28151-18511/US	Apparatus and Method for Processing Service Interactions	12551864	9/1/09	8332231	12/11/12	Issued
28151-18512/US	Real-Time Transcription	12618742	11/15/09			Pending
28151-18513/US	Conference Call Management System	12618743	11/15/09	8223844	07/17/12	Issued
28151-17643/US	Automated Speech Recognition System for Natural Language Understanding	12985174	1/5/11	8560321	10/15/13	Issued
28151-18469/US	Automated Speech Recognition Proxy System For Natural Language Understanding	13070865	3/24/11	8484031	7/9/13	Issued
28151-18387/CA	Apparatus and Method for Processing Service Interactions	2524591	5/5/04			Pending
28151-22373/US	Apparatus and Method for Processing Service Interactions	13708264	12/7/12	8484042	7/9/13	Issued
28151-23908/US	Apparatus and Method for Processing Service Interactions	13835230	7/3/13	8626520	1/7/14	Issued
28151-23981/US	Automated Speech Recognition Proxy System for Natural Language Understanding	13836440	7/8/13			Pending
28151-25248/US	Apparatus and Method for Processing Service Interactions	14136003	12/20/13			Pending
	Automated Recognition System for Natural Language Understanding	14050658	10/10/13			Pending

First Amendment to Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Reel/Frame: 036100/0925 Executed on July 09, 2015)

TITLE	COUNTRY	PATENT NO.	ISSUE DATE	OWNER	STATUS
Apparatus and Method For Processing Service Interactions	United States	7,606,718	October 20, 2009	Interactions LLC	Expires: December 11, 2026
Apparatus and Method For Processing Service Interactions	United States	8,332,231	December 11, 2012	Interactions LLC	Expires: March 3, 2026
Conference Call Management System	United States	8,223,944	July 17, 2012	Interactions LLC	Expires: April 17, 2025
Automated Speech Recognition System for Natural Language Understanding	United States	8,560,321	October 15, 2013	Interactions LLC	Expires: February 17, 2032
Automated Speech Recognition Proxy System For Natural Language Understanding	United States	8,484,031	July 9, 2013	Interactions LLC	Expires: December 5, 2031
Apparatus and Method For Processing Service Interactions	United States	8,484,042	July 9, 2013	Interactions LLC	Expires: May 5, 2024
Apparatus and Method For Processing Service Interactions	United States	8,626,520	January 7, 2014	Interactions LLC	Expires: May 5, 2024
Apparatus and Method For Processing Service Interactions	Australia	2004237227	May 5, 2004	Interactions LLC	Expires: May 5, 2024
A Method For Operating an Interactive Response System	India	245680	January 23, 2011	Interactions LLC	Expires: November 3, 2025
Apparatus and Method for Processing Services Interactions	New Zealand	543885	January 7, 2010	Interactions LLC	Renewal Due Date: May 5, 2017 Expires: May 5, 2024

PATENT TITLE	COUNTRY	PATENT NO.	ISSUE DATE	OWNER	STATUS
Apparatus and Method for Phonetically Screening Predetermined Character Strings	United States	6804650	October 12, 2004	Interactions LLC	Expires: December 20, 2020
Apparatus and Method for Phonetically Screening Predetermined Character Strings	United States	7337117	February 26, 2008	Interactions LLC	Expires: December 20, 2020
Systems and Methods for Extracting Meaning From Multimodal Inputs Using Finite-State Devices	United States	6868383	March 15, 2005	Interactions LLC	Expires: June 14, 2023
Systems and Methods for Extracting Meaning From Multimodal Inputs Using Finite-State Devices	United States	7295975	November 13, 2007	Interactions LLC	Expires: August 13, 2022
Systems and Methods for Extracting Meaning From Multimodal Inputs Using Finite-State Devices	United States	8103502	January 24, 2012	Interactions LLC	Expires: July 26, 2023
Systems and Methods for Extracting Meaning From Multimodal Inputs Using Finite-State Devices	United States	8214212	July 3, 2012	Interactions LLC	Expires: July 12, 2021
Systems and Methods for Extracting Meaning From Multimodal Inputs Using Finite-State Devices	United States	8353916	January 15, 2013	Interactions LLC	Expires: July 12, 2021
Systems and Methods for Extracting Meaning From Multimodal Inputs Using Finite-State Devices	United States	8626507	January 7, 2014	Interactions LLC	Expires: July 12, 2021
Systems and Methods for Automatic Speech Recognition	United States	7451085	November 11, 2008	Interactions LLC	Expires: June 05, 2023
System and Method for Providing a Compensated Speech Recognition Model for Speech Recognition	United States	7996220	August 9, 2011	Interactions LLC	Expires: April 17, 2022
System and Method for Voice Synthesis	United States	7305340	December 4, 2007	Interactions LLC	Expires: July 03, 2024
System and Method for Configuring Voice Synthesis	United States	8086459	December 27, 2011	Interactions LLC	Expires: June 05, 2022
System and Method for Configuring Voice Synthesis	United States	8620668	December 31, 2013	Interactions LLC	Expires: June 05, 2022
System and Method for Configuring Voice Synthesis	United States	7624017	November 24, 2009	Interactions LLC	Expires: June 05, 2022
System and Method of Providing Conversational Visual Prosody for	United States	7136818	November 14, 2006	Interactions LLC	Expires: February

PATENT TITLE	COUNTRY	PATENT NO.	ISSUE DATE	OWNER	STATUS
Talking Heads					Expires: 22, 2024
System and Method of Providing Conversational Visual Prosody for Talking Heads	United States	8131551	March 6, 2012	Interactions LLC	Expires: June 17, 2022
System and Method of Context-Sensitive Help for Multi-Modal Dialog Systems	United States	7177815	February 13, 2007	Interactions LLC	Expires: April 27, 2025
Method of Active Learning for Automatic Speech Recognition	United States	7149687	December 12, 2006	Interactions LLC	Expires: May 12, 2025
Method of Active Learning for Automatic Speech Recognition	United States	8650033	February 11, 2014	Interactions LLC	Expires: May 12, 2025
System and Method for Blending Synthetic Voices	United States	7454348	November 18, 2008	Interactions LLC	Expires: May 27, 2026
System and Method for Blending Synthetic Voices	United States	7966186	June 21, 2011	Interactions LLC	Expires: August 14, 2024
System and Method for Unsupervised and Active Learning for Automatic Speech Recognition	United States	7533019	May 12, 2009	Interactions LLC	Expires: February 28, 2026
System and Method for Unsupervised and Active Learning for Automatic Speech Recognition	United States	8024190	September 20, 2011	Interactions LLC	Expires: December 23, 2023
System and Method for Unsupervised and Active Learning for Automatic Speech Recognition	United States	8155960	April 10, 2012	Interactions LLC	Expires: December 23, 2023
System and Method for Unsupervised and Active Learning for Automatic Speech Recognition	United States	8504363	August 6, 2013	Interactions LLC	Expires: December 23, 2023
Method and Apparatus for Automatically Building Conversational Systems	United States	7668400	February 9, 2010	Interactions LLC	Expires: March 23, 2026
Method and Apparatus for Automatically Building Conversational Systems for Filling Out forms	Canada	2490430		Interactions LLC	Expires: December 14, 2024
Method and Apparatus for Automatically Building Conversational Systems	United States	8175230	May 8, 2012	Interactions LLC	Expires: July 09, 2024
Method and Apparatus for Automatically Building Conversational Systems	United States	8462917	June 11, 2013	Interactions LLC	Expires: December 19, 2023
Method and Apparatus for Automatically Building	United States	8718242	May 6, 2014	Interactions LLC	

PATENT TITLE	COUNTRY	PATENT NO.	ISSUE DATE	OWNER	STATUS
Conversational Systems					
System and Method of Generating Responses to Text-Based Messages	United States	8082151	December 20, 2011	Interactions LLC	Expires: July 26, 2030
System and Method of Generating Responses to Text-Based Messages	United States	8296140	October 23, 2012	Interactions LLC	Expires: January 03, 1900
System and Method of Generating Responses to Text-Based Messages	United States	8566096	October 22, 2013	Interactions LLC	Expires: September 18, 2027
Transparent Voice Registration and Verification Method and System	United States	8077836	December 13, 2011	Interactions LLC	Expires: August 15, 2030
Transparent Voice Registration and Verification Method and System	United States	8406382	March 26, 2013	Interactions LLC	Expires: July 30, 2026
System and Method for Recognizing Speech with Dialect Grammars	United States	8635068	January 21, 2014	Interactions LLC	Expires: December 16, 2031
System and Method for Pronunciation Modeling	United States	8073693	December 6, 2011	Interactions LLC	Expires: April 30, 2030
System and Method for Pronunciation Modeling	United States	8862478	October 14, 2014	Interactions LLC	
System and Method for Standardized Speech Recognition Infrastructure	United States	8374867	February 12, 2013	Interactions LLC	Expires: July 20, 2031
System and Method for Standardized Speech Recognition Infrastructure	United States	8532992	September 10, 2013	Interactions LLC	
System and Method for Standardized Speech Recognition Infrastructure	United States	8781831	July 15, 2014	Interactions LLC	Expires: July 20, 2031
Method and Apparatus for Managing Routing in a Network	United States	7911976	March 22, 2011	Interactions LLC	
Methods, Apparatus and Articles of Manufacture to Manage Routing In Networks	United States	8451754	May 28, 2013	Interactions LLC	
System and Method for Audibly Presenting Selected Text	United States	8239201	August 7, 2012	Interactions LLC	Expires: June 08, 2031
System and Method for Audibly Presenting Selected Text	United States	8489400	July 16, 2013	Interactions LLC	
System and Method for Training Adaptation-Specific Acoustic Models for Automatic Speech Recognition	United States	8600749	December 3, 2013	Interactions LLC	Expires: April 23, 2032

PATENT TITLE	COUNTRY	PATENT NO.	ISSUE DATE	OWNER	STATUS
System and Method for Enhancing Voice-enabled Search Based On Automated Demographic Identification	United States	8401853	March 19, 2013	Interactions LLC	Expires: September 29, 2031
System and Method for Combining Speech Recognition Outputs From a Plurality of Domain-Specific Speech Recognizers Via Machine Learning	United States	8812321	August 19, 2014	Interactions LLC	
Voice Over IP Based Voice Biometric Authentication	United States	7254383	August 7, 2007	Interactions LLC	Expires: October 21, 2024
Voice Over IP Based Voice Biometric Authentication	China P.R.	2008800217084		Interactions LLC	
Voice Over IP Based Voice Biometric Authentication	United States	7995995	August 9, 2011	Interactions LLC	Expires: October 21, 2024
Voice Over IP Based Biometric Authentication	United States	8615219	December 24, 2013	Interactions LLC	Expires: October 21, 2024
System and Method for a Targeted Tuning Module of Speech Recognition Systems	United States	7589837	August 25, 2009	Interactions LLC	Expires: October 20, 2026
System and Method for Targeted Tuning of a Speech Recognition System	United States	8401851	March 19, 2013	Interactions LLC	Expires: April 13, 2025
System and Method for Targeted Tuning of a Speech Recognition System	United States	8751232	June 10, 2014	Interactions LLC	Expires: August 12, 2024
System and Method for Optimizing Prompts for Speech-enabled Applications	United States	7043435	May 9, 2006	Interactions LLC	Expires: October 28, 2024
System and Method for Facilitating Call Routing Using Speech Recognition	United States	7653549	January 26, 2010	Interactions LLC	Expires: October 28, 2024
Evaluating Prompt Alternatives for Speech-Enabled Applications	United States	8112282	February 7, 2012	Interactions LLC	Expires: October 28, 2024
System and Method for Speech Recognition-enabled Automatic Call Routing	United States	7242751	July 10, 2007	Interactions LLC	Expires: December 06, 2024
System and Method for Processing Speech	United States	7720203	May 18, 2010	Interactions LLC	Expires: December 06, 2024
System and Method for Processing Speech	United States	8306192	November 6, 2012	Interactions LLC	Expires: December 06, 2024

TITLE	COUNTRY	APPL. NO.	APPL. DATE	OWNER	STATUS
Real-Time Transcription	United States	12/618,742	November 15, 2009	Interactions LLC	Pending Published: March 11, 2010 Publication No.: 2010/0085815
Apparatus and Method For Processing Service Interactions	United States	14/136,003	December 20, 2013	Interactions LLC	Published: April 24, 2014 Publication No.: 2014/0112460
Automated Speech Recognition Proxy System for Natural Language Understanding	United States	13/936,440	July 8, 2013	Interactions LLC	Filed for publishing.
Automated Recognition Proxy System for Natural Language Understanding	United States	14/050,658	October 10, 2013	Interactions LLC	Unpublished
Apparatus and Method for Processing Service Interactions	Canada	2524591	May 5, 2004		Pending
Apparatus and Method for Processing Service Interactions	Europe	47513635	May 5, 2004		Pending
Automated Speech Recognition Proxy System for Natural Language Understanding	Japan	Application to be based on U.S. Application No. 13/936,440		Interactions LLC	Not yet filed.

PATENT TITLE	COUNTRY	APPL. NO.	APPL. DATE	OWNER	STATUS
Updating of Acoustic Parameters Associated with the Acoustic Environment of a Handheld Device	United States	60/240243	October 13, 2000	Interactions LLC	Pending
System and Method for Configuring Voice Synthesis	United States	14/080874	November 26, 2013	Interactions LLC	Pending
System and Method of Providing Conversational Visual Prosody for Talking Heads	United States	60/380954	May 16, 2002	Interactions LLC	Pending
System and Method of Context-Sensitive Help for Multi-Modal Dialog Systems	United States	11/619268	January 3, 2007	Interactions LLC	Pending
Context Sensitive Help for Multi-Modal Dialogue Systems	United States	60/394336	July 8, 2002	Interactions LLC	Pending
Method of Active Learning for Automatic Speech Recognition	United States	14/176439	February 10, 2014	Interactions LLC	Pending
Active Learning for Automatic Speech Recognition	United States	60/399311	July 29, 2002	Interactions LLC	Pending
System and Method for Unsupervised and Active Learning for Automatic Speech Recognition	United States	13/959351	August 5, 2013	Interactions LLC	Pending
System and Method for Unsupervised and Active Learning for Automatic Speech Recognition	United States	14/551739	November 24, 2014	Interactions LLC	Pending
Method and Apparatus for Automatically Building Conversational Systems for Filling Out forms	European Patent Convention	04230013.9	December 15, 2004	Interactions LLC	Pending
Method and Apparatus for Automatically Building Conversational Systems for Filling Out forms	Hong Kong	05111571.9	December 15, 2005	Interactions LLC	Pending
Transparent Voice Registration and Verification Method and System	United States	13/767460	February 14, 2013	Interactions LLC	Pending
Transparent Voice Registration and Verification Method and System	United States	14/526933	October 29, 2014	Interactions LLC	Pending
System and Method for Recognizing Speech with Dialect Grammars	United States	14/139235	December 23, 2013	Interactions LLC	Pending
System and Method for Recognizing Speech with Dialect	United States	14/554164	November 26, 2014	Interactions LLC	Pending



PATENT TITLE	COUNTRY	APPL. NO.	APPL. DATE	OWNER	STATUS
Grammars					
System and Method for Pronunciation Modeling	United States	14/488844	September 17, 2014	Interactions LLC	Pending
System and Method for Standardized Speech Recognition Infrastructure	United States	14/330739	July 14, 2014	Interactions LLC	Pending
Methods, Apparatus and Articles of Manufacture to Manage Routing In Networks	United States	13/875909	May 2, 2013	Interactions LLC	Pending
System and Method for Audibly Presenting Selected Text	United States	13/943242	July 16, 2013	Interactions LLC	Pending
Movie On Demand with Speech On Mobile	United States	61/096787	September 13, 2008	Interactions LLC	Pending
System and Method for Enhancing Voice-Enabled Search Based On Automated Demographic Identification	United States	13/847173	March 19, 2013	Interactions LLC	Pending
System and Method for Combining Speech Recognition Outputs From a Plurality of Domain-Specific Speech Recognizers Via Machine Learning	United States	14/459719	August 14, 2014	Interactions LLC	Pending
Voice Over IP Based Voice Biometric Authentication	Japan	2007-523788	June 28, 2005	Interactions LLC	Pending
Voice Over IP Based Voice Biometric Authentication	India	420/CHENP/2007	July 28, 2005	Interactions LLC	Pending
Voice Over IP Based Voice Biometric Authentication	European Patent Convention	05775329.5	July 28, 2005	Interactions LLC	Pending
Voice Over IP Based Voice Biometric Authentication	Mexico	MX/a/2007/001051	July 28, 2005	Interactions LLC	Pending
Voice Over IP Based Voice Biometric Authentication	Canada	2564463	July 28, 2005	Interactions LLC	Pending
Voice Over IP Based Voice Biometric Authentication	Republic of Korea	70080005/2007	July 28, 2005	Interactions LLC	Pending
Voice Over IP Based Voice Biometric Authentication	PCT	US05/026700	July 28, 2005	Interactions LLC	Pending
Voice Over IP Based Biometric Authentication	United States	14/082588	November 18, 2013	Interactions LLC	Pending
System and Method for Targeted Tuning of a Speech Recognition System	United States	14/262192	April 25, 2014	Interactions LLC	Pending
System and Method for Optimizing Prompts for Speech-Enabled Applications	United States	11/363456	February 27, 2006	Interactions LLC	Pending

PATENT TITLE	COUNTRY	APPL. NO.	APPL. DATE	OWNER	STATUS
System and Method for Speech Recognition-enabled Automatic Call Routing	PCT	PCT/US2005/041473	November 14, 2005	Interactions LLC	Pending
System and Method for Processing Speech	United States	13/644305	October 4, 2012	Interactions LLC	Pending

Amended and Restated Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Reel/Frame: 043039/0808 Executed on June 29, 2017)

<u>Description</u>	<u>Registration/ Application Number</u>	<u>Registration/ Application Date</u>
Conference call management system	8223944	7/17/2012
Automated speech recognition proxy system for natural language understanding	8484031	7/9/2013
Apparatus and method for processing service interactions	8484042	7/9/2013
Automated speech recognition system for natural language understanding	8560321	10/15/2013
Apparatus and method for processing service interactions	8626520	1/7/2014
Apparatus and method for processing service interactions	7606718	10/20/2009
Apparatus and method for processing service interactions	8332231	12/11/2012
Method of active learning for automatic speech recognition	8990084	3/24/2015
System and method for standardized speech recognition infrastructure	9053704	6/9/2015
System and method for recognizing speech with dialect grammar	9082405	7/14/2015
Methods, apparatus and articles of manufacture to manage routing in networks	9083606	7/14/2015
System and method for processing speech	9112972	8/18/2015
System and method for audibly presenting selected text	9117445	8/25/2015
Voice over IP based voice biometric authentication	9118671	8/25/2015
System and method for unsupervised and active learning for automatic speech recognition	9147394	9/29/2015
System and method for enhancing voice-enabled search based on automated demographic identification	9189483	11/17/2015
Automated speech recognition proxy system for natural language understanding	9245525	1/26/2016
System and method for standardized speech recognition infrastructure	9336773	5/10/2016
System and method for processing speech	9350862	5/24/2016
System and method for recognizing speech with dialect grammars	9361880	6/9/2015

System and method for targeting tuning of a speech recognition system	9368111	6/14/2016
Transparent voice registration and verification method and system	936577	6/14/2016
System and method for unsupervised and active learning for automatic speech recognition	9378732	6/28/2016
System and method for pronunciation modeling	9431011	8/30/2016
System and method for configuring voice synthesis based on environment	9460703	10/4/2016
Automated recognition system for natural language understanding	9472185	10/18/2016
System and method for audibly presenting selected text	9558737	1/31/2017
Voice over IP based biometric authentication	9614841	4/4/2017
METHODS, APPARATUS AND ARTICLES OF MANUFACTURE TO MANAGE ROUTING IN NETWORKS	14/734448	6/9/2015
VOICE OVER IP BASED BIOMETRIC AUTHENTICATION	14/805334	11/19/2015
System And Method For Enhancing Voice-Enabled Search Based On Automated Demographic Identification	14/877709	10/7/2015
Automated Speech Recognition Proxy System for Natural Language Understanding	14/958833	12/3/2015
SYSTEM AND METHOD FOR UNSUPERVISED AND ACTIVE LEARNING FOR AUTOMATIC SPEECH RECOGNITION	15/169271	5/31/2016
Apparatus and Method for Processing Service Interactions	14/136003	12/20/2013
Automated Recognition System for Natural Language Understanding	15/251868	8/30/2016
REAL-TIME TRANSCRIPTION	12/618742	11/15/2009

Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Reel/Frame: 049388/0082 Executed on June 03, 2019)

First Amendment to Amended and Restated Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Reel/Frame: 049388/0152 Executed on June 03, 2019)

Note: The schedule below pertains to both the agreements listed above recorded under RF049388/0082 and RF049388/0152, respectively.

(Schedule starts on next page)

























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Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Reel/Frame:  
049387/0687 Executed on June 03, 2019)

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Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Reel/Frame: 056735/0713 Executed on May 27, 2021)

Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Reel/Frame: 056735/0728 Executed on May 27, 2021)

Note: The schedule below pertains to both agreements listed above recorded under RF056735/0713 and RF056735/0728, respectively.

<u>Description</u>	<u>Registration/ Application Number</u>	<u>Registration/ Application Date</u>
Bootstrapping Multilingual Natural Language Understanding via Machine Translation	10,891,435	January 12, 2021
Proxy for Selective Use of Human and Artificial Intelligence in a Natural Language Understanding System	10,789,943	September 29, 2020
Accelerating Agent Performance in a Natural Language Processing System	10,621,282	April 14, 2020
Automated Recognition System for Natural Language Understanding	10,810,997	October 20, 2020
Underspecification of Intents in a Natural Language Processing System	10,796,100	October 6, 2020

## COPYRIGHTS

Amended and Restated Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Volume 9947 Document 233 Executed on June 29, 2017)

Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Volume 9981 Document 932 Executed on June 3, 2019)

First Amendment to Amended and Restated Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Volume 9981 Document 933 Executed on June 3, 2019)

Note: The schedule below pertains to the three agreements listed above recorded under V9947D233, V9981D932 and V9981D933, respectively.

No.	Title
1.	Intent analyst scoring system.
2.	Intent analyst dispute/training technique.
3.	Intent analyst self-directed break management system.
4.	Intent analyst training system.
5.	Human assisted ASR tuning.
6.	iRouter.
7.	Master resource scheduler (MRS)
8.	iAgent.
9.	iAgent manager.
10.	Conversation handler.
11.	Prompt factory.
12.	iMonitor.
13.	iApprover.
14.	iReporter.
15.	iScream.
16.	Standard script modules (phone capture, payment capture and processing, address capture, telephone troubleshooting, other industry and CRM generic blocks)
17.	iAdmin.
18.	Review server.
19.	Workflow server.
20.	AimStatBot.
21.	XML scripts.

No.	Title
22.	Source code.
23.	DemoManager.
24.	iSim.
25.	Data commander.
26.	Cell test framework.
27.	iQueue.
28.	Interactions service bus.
29.	Fuzzy name capture.
30.	Warhammer.
31.	G3.

Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Volume 9974 Document 436 Executed on June 3, 2019)

Intellectual Property Security Agreement by Interactions LLC in favor of Silicon Valley Bank (Volume 9970 Document 854 Executed on June 3, 2019)

Note: The recordation information at the U.S. Copyright Office for the two agreements listed above did not contain any titles.