# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 Assignment ID: PATI413553

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
LINC GLOBAL, INC.	02/28/2024

## **RECEIVING PARTY DATA**

Company Name:	RS1Needle, Inc.
Street Address:	951 20th Street
Internal Address:	#540
City:	Denver
State/Country:	COLORADO
Postal Code:	80201

## **PROPERTY NUMBERS Total: 6**

Property Type	Number
Application Number:	62862128
Application Number:	16528926
Application Number:	16853527
Application Number:	17181013
Application Number:	17303783
Application Number:	17572801

## **CORRESPONDENCE DATA**

**Fax Number:** 7205364900

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.

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Correspondent Name: Neugeboren O'Dowd PC

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Address Line 2: Suite 220

Address Line 4: Louisville, COLORADO 80027

ATTORNEY DOCKET NUMBER:	2303.1000
NAME OF SUBMITTER:	RENE ROSKAM
SIGNATURE:	RENE ROSKAM
DATE SIGNED:	08/22/2024

# Total Attachments: 9 source=IPAssignment\_Final\_1#page1.tiff source=IPAssignment\_Final\_1#page2.tiff source=IPAssignment\_Final\_1#page3.tiff source=IPAssignment\_Final\_1#page4.tiff source=IPAssignment\_Final\_1#page5.tiff source=IPAssignment\_Final\_1#page6.tiff source=IPAssignment\_Final\_1#page7.tiff source=IPAssignment\_Final\_1#page8.tiff source=IPAssignment\_Final\_1#page9.tiff

### INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT

THIS INTELLECTION PROPERTY ASSIGNMENT AGREEMENT (this "IP Assignment") is made and entered into as of February 28, 2024, by and between RS1NEEDLE, INC., a Delaware corporation ("Buyer") and LINC GLOBAL, INC., a Delaware corporation (the "Seller"), pursuant to that certain Asset Purchase Agreement, dated February 28, 2024, between Buyer and Seller (the "Purchase Agreement"). Capitalized terms used but not defined herein shall have the meanings ascribed to them in the Purchase Agreement.

## **ARTICLE I**

WHEREAS, pursuant to the Purchase Agreement and effective as of the date hereof, the Seller has agreed to sell, transfer, convey, assign, and deliver to Buyer, and Buyer has agreed to purchase and accept from the Seller, among certain other assets, all of the Seller's right, title and interest in, to and under all Assigned Intellectual Property, in exchange for the purchase price described in the Purchase Agreement, and subject to all other terms and conditions of the Purchase Agreement; and

WHEREAS, pursuant to Section 1.1(c) of the Purchase Agreement, the parties hereto wish to evidence such sale, transfer, conveyance, assignment and delivery of the Assigned Intellectual Property in this IP Assignment.

**Now, Therefore**, in consideration of the mutual promises, covenants and agreements contained in this IP Assignment and the Purchase Agreement and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows as of the date hereof:

Section 1. Assignment. The Seller hereby irrevocably sells, transfers, conveys, assigns and delivers to Buyer all of the Seller's right, title and interest in, to and under the Assigned Intellectual Property, including but not limited to the assigned IP Registrations set forth on Schedule A attached hereto and incorporated hereby, and any goodwill associated therewith, free and clear of any Encumbrances (other than Permitted Encumbrances), and subject to the conditions and limitations set forth in the Purchase Agreement. The Seller expressly assigns to Buyer the right to sue on its own behalf for present and future infringement of the aforementioned Assigned Intellectual Property and to retain all proceeds thereof. Buyer hereby purchases, receives and accepts from the Seller all of the Seller's rights, title and interest in and to the Assigned Intellectual Property, including but not limited to, the right to sue on its own behalf for present and future infringement of the aforementioned Assigned Intellectual Property and to retain all proceeds thereof, free and clear of any Encumbrances (other than Permitted Encumbrances), upon the terms of, and subject to the conditions and limitations set forth in, the Purchase Agreement.

**Section 2. Recordation and Further Actions**. The Seller authorizes the Commissioner for Patents, the Commissioner for Trademarks and the Register of Copyrights and

any other Governmental Entities to record and register this IP Assignment upon request by Buyer and issue any letters related thereto. The Seller agrees to execute and deliver such additional documents, instruments, conveyances and assurances and take such further actions as may be reasonably required to carry out the provisions hereof and give effect to the transactions contemplated by this IP Assignment. Without limiting the foregoing, the Seller agrees that, upon request by Buyer, the Seller will do such lawful acts, including the execution of papers, that may be reasonably required for obtaining, sustaining, reissuing, or enforcing the Assigned Intellectual Property in Buyer's name in the United States and throughout the world, and for perfecting, recording, or maintaining the title of Buyer, and Buyer's successors and assigns, in and to the Assigned Intellectual Property in the United States and throughout the world. In the event that Buyer is unable for any reason to secure the Seller's signature to any document that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing the Assigned Intellectual Property in the United States and throughout the world, or for perfecting, recording, or maintaining the title of Buyer, and Buyer's successors and assigns, in and to the Assigned Intellectual Property in the United States and throughout the world, the Seller hereby irrevocably designates and appoints Buyer and Buyer's duly authorized officers and agents as the Seller's agents and attorneys-in-fact to act for and on the Seller's behalf to execute any such document, all with the same legal force and effect as if executed by the Seller.

- **Section 3. Terms of the Purchase Agreement**. The terms of the Purchase Agreement, including, but not limited to, the representations, warranties, covenants, agreements and indemnities set forth therein, are incorporated herein by this reference. In the event of any conflict or inconsistency between the terms of the Purchase Agreement and the terms of this IP Assignment, the terms of the Purchase Agreement shall govern.
- **Section 4. Counterparts**. This IP Assignment may be executed in counterparts, each of which shall be deemed an original, but all of which together shall be deemed to be one and the same agreement. A signed copy of this IP Assignment delivered by facsimile, e-mail or other means of electronic transmission (including DocuSign) shall be deemed to have the same legal effect as delivery of an original signed copy of this IP Assignment.
- **Section 5. Successors and Assigns**. This IP Assignment shall be binding upon and inure to the benefit of the parties hereto and their respective successors, legal representatives and assigns.
- **Section 6. Governing Law**. This IP Assignment shall be governed by and construed in accordance with the internal laws of the State of Delaware, without giving effect to any choice or conflict of law provision or rule that would cause the application of the laws of any other jurisdiction, and without reference to any rules of construction regarding the party responsible for the drafting hereof.

[SIGNATURE PAGES FOLLOW]

IN WITNESS WHEREOF, the parties hereto have caused this INTELLECTION PROPERTY ASSIGNMENT AGREEMENT to be executed as of the date first written above.

SELLER:	BUYER:	
LINC GLOBAL, INC.	RS1NEEDLE, INC.	
By: Fang Clung	By:	
Name:	Name:	
Γitle: ŒΟ	Title:	

**REEL: 068374 FRAME: 0259** 

IN WITNESS WHEREOF, the parties hereto have caused this INTELLECTION PROPERTY ASSIGNMENT AGREEMENT to be executed as of the date first written above.

SELLER:	BUYER:
LINC GLOBAL, INC.	RS1Needle, Inc.
By:	By: Exista Morgan
Name:	Name: Krista Morgan
Γitle:	Title: Gp

**REEL: 068374 FRAME: 0260** 

# SCHEDULE A

# ASSIGNED IP REGISTRATIONS

[see attached]

ation value set by the first action ager state change triggered by the first act	information value set by the first action agent or a system state change triggered by the first action agent.	
A system for a virtual assistant platform, a campiter-executable instructions, and congruence to generate a paurality of information value from the passed user imput from more utterrances applicating of information agents to a perform a user; a reactive applicating of information agents to a perform a user a plurality of information agents to a possible instructions to implement a natural language understanding (NLU) and the processor is configured to execute the computer-executable instructions to implement a natural language understanding (NLU) and the processor is configured to execute the computer-executable instructions to implement a natural language understanding (NLU) and the processor is configured to execute the computer and the configured to execute the computer and configured to execute the configured to exec	ess or is or is from from user; in at user; in at ein at ein at ein at	ess or is or is from from user; in at user; in at ein at ein at ein at
A system for a virtual assistant platform, comprising:  at least one memory device that stores computer-executable instructions; and at least one processor configured to access the memory device, wherein the processor is executable instructions to:  receive one or more utterances from a user; generate a parsed user input and/or contextual data, and/or the at least one information agents.  The present invention is a scalable multi-sen assistant platform that can construct a fluid action agents are managed by a masterbot or arbitic penerate a parsed user input from the one or assistant platform automatically handles dia generation, arbitration and optimization to sunderstanding (NLU) module; and action optimization to sunderstanding (NLU) module; arbitration and optimization arbitration and optimization to sunderstanding (NLU) module; arbitration and optimization arbitration and optimization and optimi	ris er;	The present invention is a scalable multi-service virtual assistant platform that can construct a fluid and dynamic dialogue by assembling responses to end user utterances from two kinds of agents, information agents and action agents. The information agents and action agents. The information agents and action agents are managed by a masterbot or arbiter. The virtual assistant can gain new skills by getting instructions about a new service expressed in a form of pre-requisites and action combinations; the virtual error pre-requisites and action combinations; the virtual error pre-requisites from the end user, and eventually to take generation, arbitration and optimization to survey prerequisites from the end user, and eventually to take previous the present invention allows a large number of services to implemented using a small number of building blocks. These building blocks can be used to to assemble a nucle larger number of services. In turn, each service can be delivered through a large variety of conversations with end users, enabling a fluid and
Representative Claim 1 Abstract		
US Service Mark Application No. 31/51,1108 (Sugnirie ret. no. 51/65006) To SPEECH BUBBLE logo, Inis application was allowed on 2023-09-19, and we are currently under an extendable deadline to submit a Statement of Use with supporting evidence.	ment of Use with supporting evidence.	ment of Use with supporting evidence.

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Scalable Multi-Service Virtual Assistant Platform Using Machine Learning	Masterbot Architecture in a Scalable Multi-Service Virtual Assistant Platform	Action Agent Architecture in a Scalable Multi-Service Virtual Assistant Platform
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A system for a virtual assistant platform, comprising: at least one memory device that stores computer-executable instructions, and at least one processor configured to access the memory device, wherein the processor is confligured to execute the computer-executable instructions to implement a plurality of information agents to obtain at least one information while from a passed user input and/or contextual data from one or more contextual data sources, wherein the parsed user input is generated from one or more utterances received from a user; a plurality of action agents to perform one or input, the contextual data, and/or the at least one information value, and	A system for a virtual assistant platform, comprising: at least one memory device that stores computer-executable instructions; and at least one processor configured to access the memory device, wherein the processor is configured to execute the computer-executable instructions to implement: a plurality of information agents to obtain at least one information value from a parised user input and/or contextual data from one or more contextual data sources, wherein the parsed user input is generated from one or more actions in response to the parsed user input seponses to the parsed user input the contextual data, and/or the at least one information value; and	A system for a wirtual assistant platform, comprising: at least one memory device that stores computer-executable instructions; and at least one processor configured to access the memory device, wherein the processor is configured to execute the computer-executable instructions to implement: a natural language understanding (NLLL) module to generate a parsed user input from one or more utterances received from a user; a plurality of information agents to obtain at least one information value from the parsed user input and/or contextual data; and/or the at least one information agents to be persed user imput, the contextual data, and/or the at least one information value, wherein the plurality one information value, wherein the plurality
Ine present invention is a masterbot architecture in a scalable multi-service virtual assistant platform that can construct a fluid and dynamic dialogue by assembling responses to end user utterances from two kinds of agents, information agents and action agents. A plurality of information agents and action agents. A plurality of information agents and action agents and perform contextual data, a plurality of action agents perform one or more actions in response to the parsed user input, the contextual data, and/or the information input, the contextual data, and/or the information value. A masterbot arbitrates an activation of the plurality of information agents and the plurality of action agents. The masterbot comprises access to a machine-learning module to select an appropriate action agent, where one or more information agents are activated based on the selected appropriate action agent.	The present invention is a masterbota architecture in a scalable multi-service virtual assistant platform that can construct a fluid and dynamic dialogue by assembling responses to end user utterances from two kinds of agents, information agents partial and action agents. A plurality of information agents obtain at least one information value from a parsed user input and/or contextual data. A plurality of action agents perform one or more actions in response to the parsed user input, the contextual data, and/or the information value. A masterbot arbitrates an activation of the plurality of information agents and the plurality of action agents and the plurality of information agents and the plurality of information agent appropriate action agent; a prerequisite vondiletor to validate that one or more perequisite conditions of the selected action agent have been met; and an action invocation module to perform one or more selected actions of the selected action agent have been met; and an action invocation module to perform one or more selected actions of the selected action.	ne present invention is an action agent architecture in a scalable multi-service virtual assistant platform that can construct a fluid and dynamic dialogue by assembling responses to end user utterances from two kinds of agents, information agents and action agents. A plurality of information agents and action agents perform contextual data, a plurality of sciton agents perform one or more actions in response to the parsed user input, the contextual data, and/or an information agents input, the contextual data, and/or an information agent input, the contextual data, and/or an information agent are created through a declarative language by specifying one or more action invocation parameters, one or more action invocation parameters, one or more information agents as prerequisites, and one or more responses. A natural language generation (NLG) module renders a response back to the user after the one or more actions are
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le multi-service virtual rucca filuid and responses to end user esponses to end user on agents and action bot or arbiter. The expressed in a form of ations, the virtual handles dialogue handles dialogue and eventually to take was a large number of cocks can be used to of services in turn, ough a large variety of abing a fluid and abing a fluid and	rect multi-service virtual rect a fluid and responses to end user responses to end user nots, information agents and action bot or arbiter. The expressed in a form of attors, the virtual handles dialogue hadies of the totake was a large number of small number of cocks can be used to of services in turn, ough a large variety of abling a fluid and	le multi-service virtual ruct a fluid and ruct a fluid and user responses to end user responses to end user no agents and action bot or arbiter. The lexibility of the virtual handles dialogue handles dialogue handles dialogue handles dialogue handles dialogue was a large number of small number of small number of ocservices. In turn, ough a large variety of abling a fluid and
The present invention is a scalable multi-service virtual assistant platform that can construct a fluid and dynamic dialogue by assembling responses to end user utterances from two kinds of agents, information agents and action agents. The information agents are managed by a masterbot or arbiter. The instructions about a new service expressed in a form of pre-requisites and action combinations; the virtual assistant tapform automatically handles dialogue generation, arbitration and optimization to survey prerquisites from the end user, and eventually to take action. The present invention allows a large number of services to implemented using a small number of assemble a much larger number of services. In turn, each service can be delivered through a large variety of conversations with end users, enabling a fluid and	The present invention is a scalable multi-service virtual assistant platform that can construct a fluid and dynamic dialogue by assembling responses to end user utterances from two kinds of agents, information agents and action agents from two kinds of agents, information agents and action agents. The information agents are managed by a masterbot or arbiter. The virtual assistant can gain new skills by getting firstructions about a new service expressed in a form of pre-requisites and action combinations; the virtual assistant platform automatically handles dialogue generation, arbitration and optimization to survey prerequisites from the end user, and eventually to take action. The present invention allows a large number of services to implemented using a small number of services to implemented using a small number of assemble a much larger number of services. In turn, each service can be delivered through a large variety of conversations with end users, enabling a fluid and	The present invention is a scalable multi-service virtual assistant platform that can construct a fluid and dynamic dialogue by assembling responses to end user utterances from two kinds of agents, information agents and action agents. The information agents and action agents. The information agent and action agents are managed by a masterbot or arbiter. The instructions about a new service expressed in a form of pre-requisites and action combinations; the virtual assistant platform automatically handles dialogue generation, arbitration and optimization to survey prerequisites from the end user, and eventually to take action. The present invention allows a large number of building blocks. These building blocks can be used to assemble a much larger number of services to implemented using a small number of building blocks. These building blocks can be used to assemble a much larger number of services to be delivered through a large variety of conversations with end users, enabling a fluid and
A system for a virtual assistant platform, comprising: at least one memory device that stores computer-executable instructions; and at least one processor configured to access the memory device, wherein the processor is configured to execute the computer-executable instructions to: receive one or more utterances from a user; generate a parsed user input from the one or more utterances using a natural language understanding (NLU) module; obtain at least one information value from the parsed user input and/or contextual data using a plurality of information agents; perform one or more actions in response to the parsed user input, the contextual data, and/or the at least one information value	A system for a virtual assistant platform, or a virtual assistant platform, at least one memory device that stores computer-executable instructions; and at least one processor configured to access the memory device, wherein the processor is configured to execute the computer-executable instructions to:  receive one or more utterances from a user; generate a parsed user input from the one or more utterances using a natural language understanding (NLU) module;  obtain at least one information value from the parsed user input and/or contextual data using a plurality of information in response to the parsed user input, the contextual data, perform one or more actions in response to the parsed user input, the contextual data, and/or the at least one information value.	A system for a virtual assistant platform, comprising: at least one memory device that stores computer-executable instructions; and at least one processor configured to access the memory device, wherein the processor is configured to execute the computer-executable instructions to: receive one or more utterances from a user; generate a paised user input from the one or more utterances using a natural language understanding (NLU) module: a long language understanding (NLU) module: a lorg language understanding the processor contextual data using a plurality of information agents; perform our or more actions in response to the parsed user input, the contextual data using a parsed user input and/or the second user input and/or the s
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Methods and Systems for Deploying and Managing Scalable Multi-Service Virtual Assistant Platform	Methods and Systems for Deploying and Managing Scalable Multi-Service Virtual Assistant Platform	Methods and Systems for Deploying and Managing Scalable Multi-Service Virtual Assistant Platform
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Methods and Systems for Deploying and Managing Scalable Multi-Service Virtual Assistant Platform	
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platform, comprising: at least one memory device that stores computer-executable instructions; and at least one processor configured to access the memory device, wherein the processor is configured to execute the computer-executable instructions to implement: a natural language understanding (NLU) module configured to receive one or more utterances from a user and generate computer-readable natural language input (NLI); a plurality of information unit from the NLI; a purality of action agents configured to obtain an information unit from the perform one or more actions in response	A system for a multi-service virtual assistant
partform, comprising:  at least one memory device that stores computer-executable instructions; and at least one processor configured to access the memory device, wherein the processor configured to execute the computer- executable instructions to implement: executable instructions about a new service expressed in a form of pre-requisites and action module configured to receive one or more utterances from a user and generate expressed in a form of pre-requisites and action module configured to receive one or more utterances from a user and generate expressed in a form of pre-requisites and action computer-readable natural language input automatically handles dialogue generation, arbitration and optimization to survey prerequisites from the end user, and eventually to take a plurality of information unit from the from the end user, and eventual assistant platform action blocks. The information about a new service expressed in a form of pre-requisites and action action in from a user and generate computer-readable natural language input from the end user, and eventually to take from the end user, and eventually to take a plurality of information unit from the from the end user, and eventual assistant platform actions and optimization to survey prerequisites from the end user, and eventually to take from the end user, and eventually to take from the end user, and eventually to take a plurality of action agents configured to services to implemented using a small number of building blocks.	A system for a multi-service virtual assistant   The present invention is a scalable multi-service virtual
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**RECORDED: 08/22/2024**