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UTILITY PATENT APPLICATION TRANSMITTAL <i>(Only for new nonprovisional applications under 37 CFR 1.53(b))</i>	Attorney Docket No.	1179.0236 (583-6.6USCON2)
	First Inventor	N. Nahum
	Title	Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot
	Express Mail Label No.	

APPLICATION ELEMENTS <i>See MPEP chapter 600 concerning utility patent application contents.</i>	ADDRESS TO: Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450
1. ☒ Fee Transmittal Form. (PTO/SB/17 or equivalent) 2. ☐ Applicant claims small entity status. See 37 CFR 1.27. 3. ☒ Specification. [Total Pages <u>44</u>] Both the claims and abstract must start on a new page (For information on the preferred arrangement, see MPEP § 608.01(a)) 4. ☒ Drawing(s). (35 U.S.C. 113) [Total Sheets <u>14</u>] 5. Inventor's Oath or Declaration. [Total Sheets <u>2</u>] (including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e)) a. ☐ Newly executed (original or copy) b. ☒ A copy from a prior application (37 CFR 1.63(d)) 6. ☒ Application Data Sheet. *See Note below. See 37 CFR 1.76 (PTO/AIA/14 or equivalent) 7. ☐ CD-ROM or CD-R. in duplicate, large table or Computer Program (Appendix) ☐ Landscape Table on CD 8. Nucleotide and/or Amino Acid Sequence Submission. (if applicable, items a. – c. are required) 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. (cover sheet & document(s)) Name of Assignee _____ 10. ☐ 37 CFR 3.73(c) Statement. ☒ Power of Attorney. (when there is an assignee) 11. ☐ English Translation Document. (if applicable) 12. ☐ Information Disclosure Statement. (PTO/SB/08 or PTO-1449) ☐ Copies of citations attached 13. ☐ Preliminary Amendment. 14. ☐ Return Receipt Postcard. (MPEP § 503) (Should be specifically itemized) 15. ☐ Certified Copy of Priority Document(s). (if foreign priority is claimed) 16. ☐ Nonpublication Request. Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent. 17. ☐
*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).	

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INVOKING AN AUTOMATIC PROCESS IN A WEB-BASED TARGET SYSTEM
USING A CHAT-BOT

CROSS-REFERENCE TO RELATED APPLICATION

5 [0001] This application is a continuation of U.S. Patent Application No. 17/026,305, entitled “AUTOMATION PROCESS DEFINITION FOR A NATURAL LANGUAGE INTERFACE”, which is a continuation of U.S. Patent Application No. 16/358,467, entitled “CHAT-BASED APPLICATION INTERFACE FOR AUTOMATION“, which is a national phase of PCT application No. PCT/IL2018/051168, which claims the benefit
10 of provisional patent application No. 62/581,714 filed November 5, 2017, which is hereby incorporated by reference in its entirety without giving rise to disavowment.

TECHNICAL FIELD

15 [0002] The present disclosure relates to user interfaces in computerized system in general, and to user-interfaces for automation processes that utilize chat bots, in particular.

BACKGROUND

20 [0003] A Chat bot is a computer program implementing natural language interface to conduct a conversation via auditory or textual methods with the user. Chat bots are typically used in dialog systems for various practical purposes including customer service or information acquisition. Some chatterbots use sophisticated natural language processing systems, but many simpler systems scan for keywords within the input, then pull a reply with the most matching keywords, or the most similar wording pattern, from
25 a database.

[0004] Nowadays, chat bots are starting to appear everywhere. From providing functionality via known communication services, such as FACEBOOK™, TELEGRAM™, or the like, to manipulating Internet of Things (IoT) devices via voice commands, such as using a smart speaker (e.g., GOOGLE HOME™, AMAZON
30 ECHO™, or the like).

[0005] Implementing a new functionality via a chat bot may be a complicated task. For example, in the AMAZON ECHO™ ecosystem, developers can develop new "skills" using dedicated Application Programming Interface (API). A new skill for the smart speaker is a cloud-based service that is programmed to handle requests when invoked by

5 the program of the smart speaker.

BRIEF SUMMARY

[0007] One exemplary embodiment of the disclosed subject matter is a method comprising: using a natural language interface, receiving input from a user; determining, based on the input from the user, an automation process to be executed, wherein the automation process is an automation process of a computer program having a user interface; and executing the automation process, wherein said executing comprises utilizing the user interface of the computer program to input data thereto or execute functionality thereof.

[0008] Optionally, the natural language interface is a chat bot service operable to converse with the user in natural language.

[0009] Optionally, the automation process is a parameterized automation process having a parameter, wherein the chat bot service is configured to prompt the user to provide a value for the parameter, wherein said executing comprises utilizing the value of the parameter.

[0010] Optionally, the user interface is a Graphical User Interface (GUI) comprising one or more input fields, wherein said utilizing the user interface comprises inputting data received by the natural language interface to the one or more input fields.

[0011] Optionally, the user interface is a Graphical User Interface (GUI) comprising one or more interactable GUI elements, wherein said utilizing the user interface comprises performing interface interaction with the one or more interactable GUI elements.

[0012] Optionally, said executing is performed without utilizing an Application Programming Interface (API) of the computer program.

[0013] Optionally, the automation process comprises a sequence of steps, wherein each step is selected from a group consisting of: a page redirect step; a click element step; a hovering over element step; a set focus to element step; a select value from list step; a fill input field with value step; a prompt user step; a time-wait step; and a condition-wait step.

[0014] Optionally, said determining comprises selecting the automation process from a database retaining a plurality of user-defined automation processes; wherein the database

is updatable by one or more users via a Graphical User Interface (GUI) capable of defining new automation processes and updating existing automation processes retained therein.

5 [0015] Optionally, the automation process defines an operation to be performed with respect to an element in the user interface, wherein the automation process identifies the element based on a plurality of parameters of the element; wherein said executing the automation process comprises identifying the element in the user interface, wherein said identifying the element comprises computing a similarity score for each element in the user interface using the plurality of parameters of the element, and selecting a selected
10 element having a highest similarity score, wherein the highest similarity score is at least above a predetermined threshold.

[0016] Optionally, the computer program is one of: a web-based application, a native mobile application, or a desktop program.

[0017] Optionally, the method comprises: generating a link, wherein the link is
15 configured to cause said executing upon clicking thereon, wherein the natural language interface provides the link to the user.

[0018] Optionally, the link comprises a conversation identifier of a conversation session between the user and the natural language interface, wherein the natural language interface is configured to store one or more values of parameters obtained from the user
20 during the conversation in a database in a manner associated with the conversation identifier, wherein said executing comprises retrieving, using the conversation identifier passed by the link, the one or more values of parameters from the database, wherein said utilizing the user interface is performed using the one or more values of the parameters.

[0019] Optionally, said executing is performed on a client device of the user.

25 [0020] Optionally, the natural language interface is a voice-based service, wherein the voice-based service is configured to receive vocal commands from a human user.

[0021] Another exemplary embodiment of the disclosed subject matter is a method for defining an automation process to be invoked in response to a conversation of a user with a natural language interface, the method comprising: defining a conversation to be
30 implemented by a natural language interface, wherein the conversation is configured to

obtain from the user one or more values to one or more parameters; associating the conversation with the automation process, wherein the automation process is configured to utilize a user interface of a computer program to input data thereto or execute functionality thereof, wherein the automation process is a parameterized automation process depending on the one or more parameters; and publishing the conversation to be accessible to a user via the natural language interface, wherein the user is enabled to interact with the natural language interface in accordance with the conversation, whereby the parameterized automation process is invoked automatically by the natural language interface and using one or more values provided by the user to the natural language interface for the one or more parameters.

[0022] Optionally, said defining comprises determining a conversation flow, wherein the conversation flow defines an order between conversation elements, wherein the conversation elements comprise at least a question element and an action element, wherein the action element is associated with automation process.

[0023] Optionally, the conversation elements comprise at least one of: a message element and a condition element.

[0024] Optionally, the conversation elements comprise a second action element associated with a second automation process, whereby the natural language interface is configured to selectively invoke either the automation process or the second automation process based on interaction with the user.

[0025] Optionally, the natural language interface is associated with a plurality of conversations, wherein the plurality of conversations comprise the conversation; wherein each of the plurality of conversations is associated with one or more terms, wherein the natural language interface is configured to select a conversation from the plurality of conversations based on a user intent matching the one or more terms, wherein the user intent is determined based on interaction of the user with the natural language interface.

[0026] Optionally, the natural language interface is implemented by a third-party messaging service, wherein the natural language interface is configured to generate and provide the user with a link, wherein interaction with the link is configured to cause execution of the automation process.

[0027] Optionally, the link comprises a conversation identifier of a conversation between the user and the natural language interface, wherein the one or more values are configured to be stored in a database by the natural language interface and retrieved, using the conversation identifier, by a client device executing the automation process.

- 5 [0028] Optionally, the link comprises the one or more values, thereby providing the one or more values to the automation process.

[0029] Yet another exemplary embodiment of the disclosed subject matter is a computerized apparatus having a processor and coupled memory, the processor being adapted to perform: using a natural language interface, receiving input from a user;
10 determining, based on the input from the user, an automation process to be executed, wherein the automation process is an automation process of a computer program having a user interface; and executing the automation process, wherein said executing comprises utilizing the user interface of the computer program to input data thereto or execute functionality thereof.

- 15 [0030] Optionally, the automation process is a parameterized automation process having a parameter, wherein the natural language interface is configured to prompt the user to provide a value for the parameter, wherein said executing comprises utilizing the value of the parameter.

[0031] Optionally, the user interface is a Graphical User Interface (GUI) comprising
20 one or more input fields, wherein said utilizing the user interface comprises inputting data received by the natural language interface to the one or more input fields.

[0032] Optionally, the user interface is a Graphical User Interface (GUI) comprising one or more interactable GUI elements, wherein said utilizing the user interface comprises performing interface interaction with the one or more interactable GUI
25 elements.

[0033] Optionally, said executing is performed without utilizing an Application Programming Interface (API) of the computer program.

[0034] Optionally, said determining comprises selecting the automation process from a database retaining a plurality of user-defined automation processes; wherein the database
30 is updatable by one or more users via a Graphical User Interface (GUI) capable of

defining new automation processes and updating existing automation processes retained therein.

[0035] Optionally, the automation process defines an operation to be performed with respect to an element in the user interface, wherein the automation process identifies the element based on a plurality of parameters of the element; wherein said executing the automation process comprises identifying the element in the user interface, wherein said identifying the element comprises computing a similarity score for each element in the user interface using the plurality of parameters of the element, and selecting a selected element having a highest similarity score, wherein the highest similarity score is at least above a predetermined threshold.

[0036] Optionally, said processor is further adapted to generate a link, wherein the link is configured to cause said executing upon clicking thereon, wherein the natural language interface provides the link to the user.

[0037] Optionally, the link comprises a conversation identifier of a conversation session between the user and the natural language interface, wherein the natural language interface is configured to store one or more values of parameters obtained from the user during the conversation in a database in a manner associated with the conversation identifier, wherein said executing comprises retrieving, using the conversation identifier passed by the link, the one or more values of parameters from the database, wherein said utilizing the user interface is performed using the one or more values of the parameters.

[0038] Optionally, said executing is performed on a client device of the user.

[0039] Yet another exemplary embodiment of the disclosed subject matter is a computerized apparatus for defining an automation process to be invoked in response to a conversation of a user with a natural language interface, wherein said computerized apparatus comprising a processor and coupled memory, the processor being adapted to perform: defining a conversation to be implemented by a natural language interface, wherein the conversation is configured to obtain from the user one or more values to one or more parameters; associating the conversation with the automation process, wherein the automation process is configured to utilize a user interface of a computer program to input data thereto or execute functionality thereof, wherein the automation process is a parameterized automation process depending on the one or more parameters; and

publishing the conversation to be accessible to a user via the natural language interface, wherein the user is enabled to interact with the natural language interface in accordance with the conversation, whereby the parameterized automation process is invoked automatically by the natural language interface and using one or more values provided
5 by the user to the natural language interface for the one or more parameters.

[0040] Optionally, said defining comprises determining a conversation flow, wherein the conversation flow defines an order between conversation elements, wherein the conversation elements comprise at least a question element and an action element, wherein the action element is associated with automation process.

10 [0041] Optionally, the conversation elements comprise at least one of: a message element and a condition element.

[0042] Optionally, the conversation elements comprise a second action element associated with a second automation process, whereby the natural language interface is configured to selectively invoke either the automation process or the second automation
15 process based on interaction with the user.

[0043] Optionally, the natural language interface is associated with a plurality of conversations, wherein the plurality of conversations comprise the conversation; wherein each of the plurality of conversations is associated with one or more terms, wherein the natural language interface is configured to select a conversation from the plurality of
20 conversations based on a user intent matching the one or more terms, wherein the user intent is determined based on interaction of the user with the natural language interface.

[0044] Optionally, the natural language interface is implemented by a third-party messaging service, wherein the natural language interface is configured to generate and provide the user with a link, wherein interaction with the link is configured to cause
25 execution of the automation process.

[0045] Optionally, the link comprises a conversation identifier of a conversation between the user and the natural language interface, wherein the one or more values are configured to be stored in a database by the natural language interface and retrieved, using the conversation identifier, by a client device executing the automation process.

[0046] Optionally, the link comprises the one or more values, thereby providing the one or more values to the automation process.

[0047] Yet another exemplary embodiment of the disclosed subject matter is a non-transitory computer readable medium retaining program instructions, which program instructions when read by a processor, cause the processor to perform: using a natural language interface, receiving input from a user; determining, based on the input from the user, an automation process to be executed, wherein the automation process is an automation process of a computer program having a user interface; and executing the automation process, wherein said executing comprises utilizing the user interface of the computer program to input data thereto or execute functionality thereof.

[0048] Optionally, the automation process is a parameterized automation process having a parameter, wherein the natural language interface is configured to prompt the user to provide a value for the parameter, wherein said executing comprises utilizing the value of the parameter.

[0049] Optionally, the user interface is a Graphical User Interface (GUI) comprising one or more input fields, wherein said utilizing the user interface comprises inputting data received by the natural language interface to the one or more input fields.

[0050] Optionally, the user interface is a Graphical User Interface (GUI) comprising one or more interactable GUI elements, wherein said utilizing the user interface comprises performing interface interaction with the one or more interactable GUI elements.

[0051] Optionally, said executing is performed without utilizing an Application Programming Interface (API) of the computer program.

[0052] Optionally, said determining comprises selecting the automation process from a database retaining a plurality of user-defined automation processes; wherein the database is updatable by one or more users via a Graphical User Interface (GUI) capable of defining new automation processes and updating existing automation processes retained therein.

[0053] Optionally, the automation process defines an operation to be performed with respect to an element in the user interface, wherein the automation process identifies the

element based on a plurality of parameters of the element; wherein said executing the automation process comprises identifying the element in the user interface, wherein said identifying the element comprises computing a similarity score for each element in the user interface using the plurality of parameters of the element, and selecting a selected
5 element having a highest similarity score, wherein the highest similarity score is at least above a predetermined threshold.

[0054] Optionally, the program instructions further cause the processor to generate a link, wherein the link is configured to cause said executing upon clicking thereon, wherein the natural language interface provides the link to the user.

10 [0055] Optionally, the link comprises a conversation identifier of a conversation session between the user and the natural language interface, wherein the natural language interface is configured to store one or more values of parameters obtained from the user during the conversation in a database in a manner associated with the conversation identifier, wherein said executing comprises retrieving, using the conversation identifier
15 passed by the link, the one or more values of parameters from the database, wherein said utilizing the user interface is performed using the one or more values of the parameters.

[0056] Optionally, said executing is performed on a client device of the user.

[0057] Yet another exemplary embodiment of the disclosed subject matter is a non-transitory computer readable medium for defining an automation process to be invoked
20 in response to a conversation of a user with a natural language interface, the non-transitory computer readable medium retaining program instructions, which program instructions when read by a processor, cause the processor to perform: defining a conversation to be implemented by a natural language interface, wherein the conversation is configured to obtain from the user one or more values to one or more parameters;
25 associating the conversation with the automation process, wherein the automation process is configured to utilize a user interface of a computer program to input data thereto or execute functionality thereof, wherein the automation process is a parameterized automation process depending on the one or more parameters; and publishing the conversation to be accessible to a user via the natural language interface,
30 wherein the user is enabled to interact with the natural language interface in accordance with the conversation, whereby the parameterized automation process is invoked

automatically by the natural language interface and using one or more values provided by the user to the natural language interface for the one or more parameters.

[0058] Optionally, said defining comprises determining a conversation flow, wherein the conversation flow defines an order between conversation elements, wherein the conversation elements comprise at least a question element and an action element,
5 wherein the action element is associated with automation process.

[0059] Optionally, the conversation elements comprise at least one of: a message element and a condition element.

[0060] Optionally, the conversation elements comprise a second action element
10 associated with a second automation process, whereby the natural language interface is configured to selectively invoke either the automation process or the second automation process based on interaction with the user.

[0061] Optionally, the natural language interface is associated with a plurality of conversations, wherein the plurality of conversations comprise the conversation; wherein
15 each of the plurality of conversations is associated with one or more terms, wherein the natural language interface is configured to select a conversation from the plurality of conversations based on a user intent matching the one or more terms, wherein the user intent is determined based on interaction of the user with the natural language interface.

[0062] Optionally, the natural language interface is implemented by a third-party
20 messaging service, wherein the natural language interface is configured to generate and provide the user with a link, wherein interaction with the link is configured to cause execution of the automation process.

[0063] Optionally, the link comprises a conversation identifier of a conversation between the user and the natural language interface, wherein the one or more values are
25 configured to be stored in a database by the natural language interface and retrieved, using the conversation identifier, by a client device executing the automation process.

[0064] Optionally, the link comprises the one or more values, thereby providing the one or more values to the automation process.

THE BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

[0065] The present disclosed subject matter will be understood and appreciated more fully from the following detailed description taken in conjunction with the drawings in which corresponding or like numerals or characters indicate corresponding or like components. Unless indicated otherwise, the drawings provide exemplary embodiments or aspects of the disclosure and do not limit the scope of the disclosure. In the drawings:

[0066] Figure 1 shows an illustration of an environment, in accordance with some exemplary embodiments of the disclosed subject matter;

[0067] Figures 2A-2C show flowcharts of methods, in accordance with some exemplary embodiments of the disclosed subject matter;

[0068] Figure 3 shows a flowchart of a method, in accordance with some exemplary embodiments of the disclosed subject matter;

[0069] Figures 4A-4B show schematic illustrations of user interfaces, in accordance with the disclosed subject matter;

[0070] Figures 5A-5E show schematic illustrations of user interfaces, in accordance with the disclosed subject matter;

[0071] Figure 6 shows a schematic illustration of a user interface, in accordance with the disclosed subject matter; and

[0072] Figures 7A-7B show schematic illustrations of user interfaces, in accordance with the disclosed subject matter.

DETAILED DESCRIPTION

[0073] One technical problem dealt with by the disclosed subject matter is to provide for a user-friendly manner of defining functionality of chat bots. In particular, defining automation processes to be invoked by chat bots, either dedicated chat bots, such as implemented on a target system where the functionality is invoked, or even using third-party services, such as FACEBOOK MESSENGER™ are the communication platform for the chat bot service, which later invokes the automation process itself on the target system.

[0074] The chat bot may be a service that simplifies the end-user experience by collecting data from him and executing a predefined automation flow on the target system. The chat bot may implement a natural language interface, such as a text-based conversation, an oral conversation, or the like. The target system, generally referred to as the computer program, may be a website, a web-based system, a native mobile application (e.g., executed in a protected sandbox), a desktop application (e.g., executed in a process of a non-sandbox-based operating system), or the like. The target system may have a user interface, such as a Graphical User Interface (GUI), that the user may utilize in order to activate the functionalities of the target system.

[0075] As an example, if the user wishes to buy stocks on his bank account, he can use the website of the bank. Alternatively, the user may converse with a chat bot that is provided on the bank's website that is capable of asking her all the relevant information for filling the online stock purchase form and then run a predefined automation on top of the bank's website.

[0076] As yet another example, a third-party messaging service may be used to converse with a chat bot service. For example, SLACK™ and TELEGRAM™ allow defining chat bot services as users in the chat service. Users can communicate with such non-human users in the same manner they communicate with other human users. For example, the user may chat with a chat bot named "HR Bot" who may provide Human Resources (HR)-related functionality.

[0077] It may be desired to enable defining the chat bots without the need of using dedicated APIs, programming languages, or the like. It may be desired that non-programmers may be able to define the automations that are invoked by the chat bots.

[0078] In some cases, adoption of new software may be a challenge to companies. Enterprises may use many different software tools for different purposes, such as HR, Customer Relation Management (CRM), Finance, Task Management, Project planning, or the like. Integration of a new system into an organization may be a challenge as it may
5 require migrating large amounts of employees to new platforms, requiring that the users be trained in using the new system. A chat bot, on the other hand, may abstract away the actual system. Instead of relying on the user's familiarity with the system, the automation process may be in charge of the actual use of the system. The chat bot may simply extract the user's intention, identify the relevant action to be performed, and extract relevant
10 information to be used as part of the automation process.

[0079] Another technical problem may be to enable defining automation processes in a manner that enables them to be implemented even if changes are performed to the underlying platform. For example, it may be desired that the automation process will continue working even in the face of layout modifications of the front-end of the program
15 or website. In some cases, it may be desired to be able to identify elements selected during the definition of the automation process during execution thereof. The identification may be a non-trivial task if no unique identifier exists, as may be the case in many instances. Still, it may be desired to be able to identify such element correctly so as to apply the actions defined by the automation process.

[0080] One technical solution provided by the disclosed subject matter may be to use a
20 natural language interface to receive input from the user, and based thereon, select an automation process to be executed. The automation process may be executed in a manner that manipulates the GUI of the target system, in a similar manner to the manner in which the user operates. As a result, definition of the automation process may be defined by
25 non-programmers.

[0081] Defining the automation process based on performing actions in the GUI enables the automation process to perform any functionality that the user can perform, without relying on dedicated APIs and without requiring any line of code. The parameters of the conversation, as well as the flow of the automation process, may be defined using a point
30 and click editor, or other user interface that can be used by any non-programmer users.

[0082] In some cases, if the target system is replaced, the same chat bot conversation may be used to gather the relevant information and the automation process that is invoked may be replaced. The underlying system may be abstracted away and the user may use the simple and convenient chat bot service as the only user interface.

5 [0083] Additionally or alternatively, different functionalities may be implemented and there may be no limit to what the chat bot can invoke, except for the limitations of the target system's own capabilities. A novice user may define in a simple manner the parameters of the conversation that the chat bot implements, and the automation process that would be executed based thereon. Using this seemingly simple techniques, a fast and
10 efficient manner of providing chat bot functionalities is enabled.

[0084] In some exemplary embodiments, the chat bot may be implemented on a different system than the target system itself, such as a third-party messaging service. As a result, it may be desired to enable third-party messaging service to invoke the automation process in a simple manner and without relying on coding or on dedicated
15 APIs. In some exemplary embodiments, the chat bot service may generate a link, such as a web link (e.g., a link to a website), a deeplink to a mobile application (e.g., waze:// link to the WAZE™ mobile application), a link to a local desktop agent (e.g., walkme:// link to the WALKME™ desktop agent), or the like. The link may be presented to the user in the messaging service and the user may click the link. In response to the link being
20 clicked, the target system may be opened and the automation process may be executed.

[0085] In some exemplary embodiments, the chat bot may collect information to be used as part of the automation process, such as values to be inputted in input fields, selections to be made in the GUI of the target system, or the like. The information may be provided to the automation process via the link. In some cases, the link may comprise
25 a query string indicating a conversation identifier. The conversation identifier may be a unique identifier of the chat bot session with the user. Before generating the link, the information gathered by the chat bot may be stored in a database with a record whose key is the conversation identifier. After the link is traversed, the conversation identifier is obtained from the query string, and the record is retrieved from the database using the
30 conversation identifier. The collected information itself may be used by the client device when executing the automation process. Additionally or alternatively, the link may

comprise the values of the parameters themselves explicitly in the link, enabling to avoid using a database to indirectly pass the information and instead pass it directly via the link.

[0086] In some exemplary embodiments, a chat bot service may be associated with different conversation flows. Each conversation flow may be associated with one or more automation processes that can be invoked. A non-programmer user may define the association therebetween and define when each conversation flow is selected, and in which conditions, each automation process is invoked.

[0087] An automation process may be a dynamically adaptable tutorial, such as described in U.S. Patent No. 9,922,008, issued Mar. 20, 2018, entitled "Calling Scripts Based Tutorials", which is hereby incorporated by reference in its entirety for all purposes without giving rise to disavowment. The automation process may define a sequence of steps to be performed. In some exemplary embodiments, some steps may be associated with control flow of the sequence, such as a branching step. Additionally or alternatively, some steps may be associated with performing an action on a GUI element, also referred to as widget. Additionally or alternatively, some steps may be associated with a condition that is based on content of a GUI element.

[0088] In some exemplary embodiments, there may be a unique identifier for the widget. For example, a unique id for each element, A Cascading Style Sheet (CSS) selector in a web application, a path to a mobile element, or the like. Selection may be implemented using such unique identifier.

[0089] In some exemplary embodiments, there may not be any unique identifier for the widget. For example, the widget may be a button, having a text label "SET", a color parameter, a length parameter, a height parameter, an associated URL that is activated upon clicking thereon, or the like. None of the parameters may be unique to the widget itself. Still, it may be desired to provide for an identification manner of a widget. Additionally or alternatively, the widget may be modified in the GUI, such as its color may be changed, its text may be modified, it may be enlarged or shrunk and the URL may be switched.

[0090] In some exemplary embodiments, the identification may be performed in a probabilistic manner. Each widget of the same target type appearing in the relevant screen of the GUI may be examined. Each of the parameters used for identifying the widget-of-

interest is compared to the parameter of the examined widget and a similarity score may be computed. The examined widget having the highest similarity score may be determined to be the widget-of-interest. In some exemplary embodiments, in case the highest similarity score is below a predetermined threshold, it may be determined that the widget-of-interest was not located. It is noted that the parameters used for identification of the widget-of-interest may be a subset of the available parameters thereof. Additionally or alternatively, existing parameters in the examined widget that are not part of the parameters of widget-of-interest may reduce the similarity score. Consider, for example, a button widget which does not have a URL to be followed upon click. A button widget that does comprise such URL is less likely to be the same widget-of-interest than another widget that does not have a URL. Additionally or alternatively, the parameters may comprise relative parameters indicating relations to other widgets, such as encapsulated within another element, located in a relative location to another widget, or the like. As the overall layout may expect to remain similar in different version of the target system, such relative parameters may be useful as a hint to indicate whether the examined widget is indeed the widget-of-interest. The relative parameters may refer to other elements, who may be also be identified in a probabilistic manner themselves. Additionally or alternatively, the other elements may be identified using a unique identifier, or using another method.

[0091] One technical effect of the disclosed subject matter may be to provide abstraction of the way users, such as employees in an organization and clients of an enterprise, use different platforms and simplify complicated processes for them with a unified, and simple, conversational-based user interface.

[0092] Another technical effect may be to provide a chat bot designing process that does not require coding or using designated API. This may allow to bypass the requirement of having the target system expose an API for each potential functionality. Instead, the GUI itself, which already exists in the target system, is used as the API-substitute. Exposing an API may be time-consuming task in some cases, but in many cases it may not be feasible as the target system may be owned by a third-party who may not wish to expose an API and who may not wish to allow external automation.

[0093] Yet another technical effect may be to avoid security issues. With API calls, there may be potential security issues, if the API is manipulated. Instead, the disclosed subject matter uses the GUI itself, and the actions may be performed behalf of a logged-in user, under her authority. No additional security issues are created due to the use of the disclosed subject matter, as opposed to potential vulnerabilities that may be introduced when an API is published and made available.

[0094] Yet another technical effect may be enabling abstraction of the interface of the target system. Modifications to the target system's interface may be transparent to the automation process, which may continue to function as before, due to its dynamic capabilities. Additionally or alternatively, even extensive changes in the UI and even replacing the target system altogether may be handled quickly and simply using the disclosed subject matter by modifying the automation process accordingly and adjusting the chat bot to invoke the modified automation process instead of the original one. The conversation itself may still follow the same flow and the user may be unaware of the extensive modifications to the underlying target system.

[0095] The disclosed subject matter may provide for one or more technical improvements over any pre-existing technique and any technique that has previously become routine or conventional in the art.

[0096] Additional technical problem, solution and effects may be apparent to a person of ordinary skill in the art in view of the present disclosure.

[0097] Referring now to Figure 1 showing a computerized environment in accordance with some exemplary embodiments of the disclosed subject matter.

[0098] A Chat Bot Editor 110. Editor 110 may enable a non-programmer user (not shown) to define a flow of conversation for a chat bot. The user may define which questions the bot would ask, which remarks it will make, flow control operations that may be based on evaluated conditions, such as branching operations, or the like. Additionally or alternatively, the user may define for a conversation flow which automation process is invoked thereby and which parameters are passed thereto. Additionally or alternatively, the user may define that a conversation is associated with multiple automation processes, one of which may be selected based on the interaction with the user. Additionally or alternatively, Editor 110 may define several different

conversation for a single chat bot (e.g., HR Bot). The bot may be defined to select the correct conversation to follow based on user input, such as explicit selection, implicit identified intent, or the like.

5 [0099] In some exemplary embodiments, Editor 110 may be configured to store the definitions of the conversation in a database, such as Conversation Definitions 102. Conversation Definitions 102 can be accessed at runtime when the chat bot service is being executed.

[00100] Launcher Module 120 may be configured to provide a launcher widget in the target system. For example, a bot-icon may be presented in a corner of the screen of the
10 GUI. Pressing on the bot-icon may launch the Chat Bot Front-End Module 130.

[00101] Chat Bot Front-End Module 130 may be configured to enable a User 190 to interact with a chat bot. User 190 may converse with the chat bot using natural language, such as using written text in a messenger-like UI, using oral conversation such as by providing oral instructions that may be translated to text using speech-to-text methods,
15 or the like. Chat Bot Front-End Module 130 may be a front-end of the chat bot that may be implemented by a dialog processor service (not shown) that may be executed, for example, by a cloud-based platform. In some exemplary embodiments, the dialog processor service may be a microservice. The dialog processor service may access Conversation Definitions 102 to determine the flow of conversation, to determine which
20 question to ask the user, what to do with the provided answer, match values to parameters, or the like.

[00102] In some exemplary embodiments, Chat Bot Front-End Module 130 may be a front-end of a third-party communication service that enables integration of a chat bot service, such as using a non-human user representing the chat bot.

25 [00103] Upon a determination of an automation process to be invoked, as may be determined by the dialog processor service based on the Conversation Definitions 102 of the executed conversation, an Automation Execution Module 140 may be invoked. Automation Execution Module 140 may be configured to execute, on the client-side, the automation process. In some cases, the automation process may be a dynamically
30 adaptable tutorial that is invoked. Additionally or alternatively, the automation process may be a dynamically adaptable process that is not a tutorial per se, as the process may

not require that each step be shown and explained to the user. In some cases, the process may be performed automatically or semi-automatically. For example, consider a vacation request from an HR bot. The process may be performed automatically to prepare the vacation request by filling a relevant online form. The automation process may request
5 that the user validate the content of the form before its submission, and hence it may require some user assistance.

[00104] In some exemplary embodiments, Automation Execution Module 140 may utilize client-side code for website target systems. For example, a JavaScript library running on the website itself and executed by the browser may be utilized. The JavaScript
10 library may be embedded in the code of the website. Additionally or alternatively, the JavaScript library may be imported into the code of the website. Additionally or alternatively, the JavaScript library may be injected to the HTML code using a browser extension on the fly, to provide a solution that need not cooperation of the owner of the website. The client-side code (e.g., JavaScript library) may have access to read and write
15 the entire HTML code of each web page. Thus, the automation may be able to find elements in the HTML, check their values and manipulate them. The automation may also change the page's URL and create new elements on the page (for example: popup balloons).

[00105] In some exemplary embodiments, Automation Execution Module 140 may
20 utilize a native library which runs in the host application in case of mobile applications. Mobile applications may be executed on a sandboxed-based operating system, such as iOS™ or ANDROID™, where each application is executed in a separate sandbox. A Software Development Kit (SDK) of the native library can be compiled with the host application if the owner of the host application cooperates. Additionally or alternatively,
25 the SDK may be injected from outside, obviating the need cooperation of the owner of the application. In such a case, the cooperation of the User 190 may be required, such as by installing a program for injecting the SDK to the host application. As the SDK is injected to the host application, the automation may access the UI elements of the application and this is able to find elements, check their values and manipulate them.
30 New elements may also be created, as needed, on the fly.

[00106] In some exemplary embodiments, Automation Execution Module 140 may execute automation process on a desktop application that is executed on a non-sandboxed operating system, such as WINDOWS™ or LINUX™. An agent may be installed on the user device. The agent may access other applications, including their UI elements,
5 manipulate such elements and create new elements.

[00107] One or more of the above-mentioned components may be connected to a Network 105, such as intranet, Local Area Network (LAN), the Internet, or the like.

[00108] Referring now to Figure 2A showing a flowchart of a method, in accordance with some exemplary embodiments of the disclosed subject matter.

10 [00109] On Step 210, a chat bot is launched. The chat bot may be launched in response to a user clicking on a launch icon, in response to a user command, in response to a user clicking on a physical button, in response to a vocal command (e.g., "OK Siri", "Hey Google"), or the like. In some exemplary embodiments, the user may launch a third-party communication service, such as WHATSAPP™, TELEGRAM™, SLACK™, or the like,
15 and select to converse with a non-human user, representing a chat bot.

[00110] On Step 220, a conversation of the chat bot is selected. The conversation may be selected based on explicit selection by the user, based on implicit selection inferred from the user's intent, or the like. The chat bot may be associated with a plurality of potential conversations, defined in a definitions database, such as 102 of Figure 1. Based
20 on processing of the user's interaction with the chat bot, such as using Natural Language Processing (NLP) techniques, it may be determined which conversation is the most likely conversation and such a conversation may be suggested to the user for confirmation.

[00111] On Step 230, the conversation may be implemented. The chat bot service may execute the conversation flow by following the flow defined for the conversation (232).
25 The flow may define announcements that the chat bot service would provide to the user. The announcements may appear as part of a conversation that the chat bot provides, either in written or vocal communication, depending on the modality of the chat bot. The announcements may be fixed and predetermined. Additionally or alternatively, the announcements may be parameterized and be modified based on previous answers by the
30 user, previous messages provided by the user, based on user-related data, contextual information, or the like. The flow may define conditions for evaluation and branching

instructions or other control flow instructions that rely on the evaluated value. The flow may define questions configured to extract information from the human user (234). The questions may define a name of a parameter to which the information would be assigned and a type and/or a domain thereof (e.g., text, text matching a predetermined pattern, an integer, an integer within a range, or the like). The values of the parameters may be utilized for setting values of parameters in a parameterized automation process, thereby adjusting the parameterized automation process based on the answers of the user. The adjustment may comprise causing the automation process to input user-defined values to input texts, select different elements, set different conditions, or the like.

10 [00112] On Step 240, an automation process may be selected. The automation process may be selected based on the flow of the conversation. In some exemplary embodiments, a conversation may be associated with several automation processes that are selected based on the user's interaction with the chat bot. Additionally or alternatively, the conversation may be associated with a single conversation that is selected upon reaching
15 the end of the flow of the conversation.

[00113] On Step 250, the automation process may be executed. In some exemplary embodiments, the automation process may be a parameterized automation process that is executed using the values of the parameters obtained during the conversation session (e.g., Step 234). The automation process may be executed on the client device. In some
20 exemplary embodiments, the user may a-priori install a computer program product on her client device, such as a desktop agent, a browser extension, or the like, to enable execution of automation processes for target programs and systems that do provide direct support for the disclosed subject matter. Additionally or alternatively, in case of a target program that is supported by the disclosed subject matter, such as a website already
25 having embedded therein the relevant client-side code, no installation of an additional client-side program may be required.

[00114] The automation process may be defined by a user of an editor, such as system operator. The definitions of the automation process may be stored in a database and retrieved on the client-side for execution. The automation may be a flow that comprises
30 steps in a predefined order. The flow may comprise control flow steps, such as branching

steps that depend on conditions. After a step is executed, a succeeding step in the flow may be executed.

[00115] In some exemplary embodiments, the following actions can be defined in the editor and will then cause the corresponding steps to occur in an automation:

- 5 [00116] A split step may comprise a parameter of type "Rules". Upon execution of the split step, the parameter of the steps may be evaluated. If the rule is evaluated to true, a true branch is traversed to reach to a next step (e.g. "then step"). If the rule is evaluated to false, a false branch is traversed to reach to a different step (e.g., "else step").

- 10 [00117] A redirect to a URL step may comprise a String parameter named URL and a Boolean parameter named "Don't redirect if URL is identical". If the "Don't redirect if URL is identical" parameter is false or if the current URL of the browser does not equal the URL parameter, the browser is redirected to the URL parameter.

- 15 [00118] Clicking on screen elements step may comprise an element description of the element-of-interest. The element-of-interest may be identified in the GUI, such as based on a unique identifier, based on a probabilistic method, or the like. The automation process interacts with the element-of-interest and simulates a click action thereon. As an example, the element-of-interest may be a clickable object, a button, or the like.

- 20 [00119] Hovering on screen elements step may comprise an element-of-interest. The element-of-interest may be identified in the GUI, such as based on a unique identifier, based on a probabilistic method, or the like. The automation process interacts with the element-of-interest and simulates a mouse hover event over the element-of-interest. As an example, the element-of-interest may be a menu element, an element having a tooltip, or the like.

- 25 [00120] Focusing on screen elements step may comprise an element-of-interest. The element-of-interest may be identified in the GUI, such as based on a unique identifier, based on a probabilistic method, or the like. The automation process interacts with the element-of-interest and simulates an element focus event for the element-of-interest. For example, the element-of-interest may be a text input field which may be manipulated to receive focus, enabling the inputting of texts thereto.

[00121] Select list value of on-screen elements step may comprise an element-of-interest and a String value. The element-of-interest may be identified in the GUI, such as based on a unique identifier, based on a probabilistic method, or the like. The automation process interacts with the element-of-interest and simulates a selection of the value from the list defined in the element-of-interest.

[00122] Filling an input field step may comprise an element-of-interest, a String text, a parameter name, or the like. The value to be inputted to the element-of-interest can be a fixed value (the String text parameter). Additionally or alternatively, the value may be retrieved from a parameter, whose value is set during the conversation. The name of the parameter may be provided as a parameter to the step (e.g., parameter name). The element-of-interest may be identified in the GUI, such as based on a unique identifier, based on a probabilistic method, or the like. The automation process interacts with the element-of-interest and simulates a user filling input to the element-of-interest, either a fixed value or a value of the parameter.

[00123] Prompting the user step. The automation process may prompt the user, such as using a popup, a balloon, a tooltip, or the like. As an example, if the user is required to enter her password, this step may be used. The step may comprise a String variable named "prompt text" providing the content of the prompt itself, a parameter defining a type of prompt, or the like. In some exemplary embodiments, the step may comprise an element-to-bound which may be used as an anchor point to which the prompt is tied. The element-to-bound may be identified in the GUI, such as based on a unique identifier, based on a probabilistic method, or the like.

[00124] Wait for a predefined time step may comprise an integer variable named "seconds". The step may be executed by starting a timer for the number of seconds defined in the step. After the time elapses, the automation process continues execution.

[00125] Wait for a condition step may comprise a wait condition provided in the form of a variable of type "Rules". For example, a wait step may be defined to wait for an on-screen element to appear.

[00126] Show a message step may be a step for presenting a message to the user. The message may be used for indicating, for example, success of the automation. A message content may be defined for the message step.

[00127] Variables of type "Rules" may comprise one or more Boolean statements that are connected using logical operators, such as OR, AND, XOR, IFF, or the like. The disclosed subject matter may support a plurality of statements. Non-limiting examples are described: an on screen element exists, does not exist, visible, hidden, or the like; a
5 statement regarding a text label of an on screen element (e.g., String conditions such as contains, length, or the like); a statement regarding a text of the current URL (e.g., String conditions such as contains, length, substring, etc.); checking values of in-app variables; checking an in-app storage value (e.g., cookies, etc.); checking browser type; checking operating system type; checking current date/time; or the like.

10 [00128] Referring now to Figure 2B showing a flowchart of a method, in accordance with some exemplary embodiments of the disclosed subject matter.

[00129] In Figure 2B, a chat bot implemented using a third-party platform is utilized. The chat bot conversation is performed in the user interface of the platform, which may not have a configurable interface, let alone one that does not require programming and
15 using of APIs, to the target system.

[00130] On Step 260a, after the automation process to be executed is selected (240), a link is generated. The link comprises all the information needed for the automation process. For example, if the automation process is a parameterized automation process, the link may comprise the values of the parameters. In some exemplary embodiments,
20 the link may comprise a query string indicating the values of each parameter of the parameterized automation process. Additionally or alternatively, the link may be defined to invoke a GET HTTP request, a POST HTTP request, or the like, to pass the values of the parameters to the invoked location. As an example, a link for an automation process in the mobile application WAZE™ may be:
25 waze://?automationFlowId=123¶m1=abc¶m2=def, defining the values of two parameters (param1, param2).

[00131] On Step 262, the link is provided to the user via the chat bot session. As an example, the chat bot may provide a message stating: "Click here and I'll do what you asked: [URL]", where URL is replaced with the generated link.

[00132] On Step 264, after the user clicked on the link, the automation process may be executed. In case of a parameterized automation process, the values of the parameters may be retrieved from the link.

5 [00133] In some exemplary embodiments, the invocation of the automation process in a desktop application may comprise a link in Uniform Resource Identifier (URI) scheme to the local desktop agent may be provided. After the link is traversed, the local desktop agent may launch the target desktop application. If the agent determines that the target desktop application is already operating, it may avoid re-launching it.

10 [00134] Referring now to Figure 2C showing a flowchart of a method, in accordance with some exemplary embodiments of the disclosed subject matter.

[00135] On Step 260b, a link with a conversation identifier may be generated. Similarly to the link of Step 260a, the link provides the values of the parameters. However, instead of explicitly providing the values in the link, a unique conversation session identifier is allocated and used to identify the conversation session. Consider again the example of
15 the WAZE™ mobile application, the link may be: waze:///conversationResultId=123, wherein the conversationResultId is the conversation session identifier.

[00136] On Step 261, the values of the parameters, as determined during the implementation of the conversation based on the user's responses (Step 230), are stored in a database accessible from the target system. The parameters are stored in a record
20 retrievable using the conversation session identifier (e.g., conversationResultId).

[00137] On Step 266, the parameters values may be retrieved from the record using the conversation session identifier. In some exemplary embodiments, after retrieval thereof, the record may be deleted and the unique session identifier may be released to be reused for other sessions. Additionally or alternatively, the client device may store in its local
25 storage the information retrieved from the server.

[00138] Referring now to Figure 3 showing a flowchart of a method, in accordance with some exemplary embodiments of the disclosed subject matter.

[00139] On Step 310, a new conversation is created. The new conversation is to be defined by the administrator user. Additionally or alternatively, the conversation may be
30 an existing conversation that is being updated. In some exemplary embodiments, the

conversation may have a name, keywords useful for matching user's response to the conversation, or the like.

[00140] On Step 320, a conversation flow may be defined. The conversation flow may define the announcements of the chat bot, the questions the chat bot asks, the parameters
5 that the chat bot asks for and attempts to retrieve from the user's responses, which may be provided in natural language, the control flow conditions on the conversation flow and the like.

[00141] On Step 330, one or more automation processes may be associated with the conversation. The user may define, for example, using a click-and-point GUI, which
10 automation process would be invoked and when, with respect to the conversation flow. Conversation flows having branch operations may be associated with more than a single automation process. Additionally or alternatively, a plurality of automation processes may be performed sequentially (either immediately one after the other, or with intermediate questions therebetween).

[00142] On Step 340, the conversation may be published and made available to be
15 implemented by a chat bot service. In some exemplary embodiments, the publication may assign the conversation to a specific bot. For example, HR Bot may be assigned several conversations that are different from those of a CRM Bot.

[00143] Referring now to Figure 4A showing a schematic illustration of a user interface,
20 in accordance with the disclosed subject matter.

[00144] Screen 400 exemplifies a bot editor GUI. Bots 405 is selected and in Bots Pane
410, all defined bots are listed. Bot 420 is named HRExpert (422), has an assigned identifier and is already active (Published Status 424). Bot 420 may be edited, modified, or made unpublished. Additionally or alternatively, a new bot may be defined using the
25 Add Button 430.

[00145] A published bot may be accessible via a launcher defined to be able to launch it. In some exemplary embodiments, the publication is implemented by updating a database to cause the launcher to be able to launch the bot. Additionally or alternatively, publication through third-party platforms may include creation of a non-human user and
30 assigning conversation therewith to be processed by a chat bot conversation microprocess

that is configured to access a database to determine parameters of the conversations of the bot. The publication may include updating the databases accordingly. In some exemplary embodiments, a publication of a bot may comprise publishing all (previously unpublished) conversations used by the bot.

5 [00146] Referring now to Figure 4B showing a schematic illustration of a user interface, in accordance with the disclosed subject matter.

[00147] In Bot Details Editor 440, the details of Bot 420 of Figure 4A are shown. Name 442 may be modified to a user-defined name. A Greeting Message 444 of Bot 420 may also be defined. A set of Conversations 446 that Bot 420 can implemented are selected.
10 The user may add or remove conversations. Currently, Conversations 446 comprise three different conversations: Open New Requisition (446a), Add Expanses (446b), and Add New Employee (446c). In some cases, Bot 420 may indicate, upon activation, suggested conversations, and such conversations are indicated in List 448. Additionally or alternatively, Toggle 450 may be turned on to indicate that the conversations are only
15 selected from a list and are not inferred from the user's intent as determined from conversation in natural language. An Error Message 452 is defined in case no conversation can be matched.

[00148] In some exemplary embodiments, a list of Launchers 454, such as Launcher 454a, indicate launchers that are defined to launch Bot 420. Additionally or alternatively,
20 Launchers 454 may also include a launcher representing a non-human-user in a platform, such as a SLACK™ user representing the HR Bot, Bot 420.

[00149] Modifications to the bot may be saved or discarded. In some cases, the user may decide to make a bot unavailable for use of the users, using Unpublish Button 460.

[00150] Referring now to Figure 5A showing a schematic illustration of a user interface,
25 in accordance with the disclosed subject matter.

[00151] Screen 500 exemplifies a conversation editor GUI, after Conversations widget 505 is selected. Conversations Pane 510 lists existing conversations (520a, 520b, 520c), indicating for each their identifier, name, display name, production status (512, 514, 516, 518). In some exemplary embodiments, actions of each conversation may be listed under
30 an Actions Column 519. Each conversation may be edited, modified, made unpublished,

or the like. Additionally, or alternatively, a new conversation may be defined using the Add Button 530.

[00152] Conversations 520a, 520b, 520c are available through Bot 420, as is illustrated in Conversations 446 in Figure 4B. However, some conversations may be made available
5 by other bots. Additionally or alternatively, the same conversation may be made available by several different bots.

[00153] A conversation that is made published may be updated in a database that provides the information of the conversation for implementation by bots that are determined to be able to perform said conversation.

10 [00154] Referring now to Figure 5B showing a schematic illustration of a user interface, in accordance with the disclosed subject matter.

[00155] In Conversation Details Editor 540, the details of Conversation 520c of Figure 5A are shown. Name 542 and Display Name 544 may be modified to user-defined names. Keywords Field 546 lists keywords that may be used to match the conversation to the
15 user. In some exemplary embodiments, the user's intent may be extracted from her input, that is provided in natural language. Matching the terms, directly or indirectly, to the terms in Keywords Field 546 may indicate an intent of the user, which may be used to select Conversation 420c for implementation. In the illustrated example, the terms are "new", "employee" and "new employee" (546a, 546b, 546c).

20 [00156] In some exemplary embodiments, a conversation flow may be defined by the user, using the GUI and without requiring coding capabilities or API invocations. The user may add new steps to Conversation 420c using Buttons 552, 554, 556, 558. Add Message Button 552 may be configured to add a message step, in which a message to be provided by the chat bot to the user is defined. The definition may be explicit (e.g., fixed
25 text). Additionally, or alternatively, the definition may provide leeway for the chat bot to personalize and implement based on the user's information and the context of the conversation. Add Question Button 554 may be configured to add a question step, in which the chat bot may attempt to retrieve information from the user. The question step may define the type of input to be gathered and a name of a parameter for referring to the
30 user-provided value thereof. Add Condition Button 556 may be configured to add a condition step, in which a condition is evaluated and two alternative flows are selected

based thereon. The user may define the condition, as well as the selected next steps for each possibility. Add Action Button 558 may be configured to add an action step, in which an automation process is executed. The user may define how to execute a parameterized automation process and may match the parameters provided during the conversation with the parameters to be provided to the automation process. In some cases, the user may also define how environment variables, user-associated data, or other available data sources not gathered by the natural language interface of the chat bot, may be used as parameters of the parameterized automation process.

[00157] Step 550a may be a message step, in which the bot acknowledges that the conversation commences and tells the user that the bot would assist her in adding a new employee to the system. The step indicates a next step, which may be selected from a dropdown list of the steps already defined for Conversation 520c.

[00158] Step 550b may be a question step, in which the bot attempt to obtain an employee identifier of the new employee. Similarly, Steps 550c, 550d, 550e, 550f are questions steps in which the name of the employee, email address and his business unit are obtained from the user.

[00159] Step 550g, which may be defined as the step following Step 550f, may be a condition step. The condition step may define a condition to be evaluated and based thereon the flow could continue in different paths. In case the condition is true, a success-next step is used (defined as Step 550i in the illustrated example). In case the condition is evaluated to false, a fail-next step is followed (defined in the illustrated example as Step 550h).

[00160] Steps 550h and 550i are action steps in which an automation process is executed. In the illustrated example, the conversation could end in an execution of one of two automation processes. However, it is noted that a conversation may be configured to end in a specific (single) automation process. Additionally or alternatively, in some cases, a conversation may execute a plurality of automation processes in sequence, one after the other. In such a case, after a first automation process is executed, a second phase of questions may be implemented before executing the second automation process. In some embodiments, the second automation process may be executed directly after the first automation process finishes, and without intervening steps in between.

[00161] Referring now to Figure 5C showing a schematic illustration of a user interface, in accordance with the disclosed subject matter. Figure 5C illustrates an editor of an action step for Action Step 550h of Figure 5B.

[00162] The action step editor enables modification to the various parameters of the action step. The name of the action step may be provided in Step Name Field 560. The user may select an automation process in Automation Selector 562. Selector 562 may enable selection from existing automation processes created by the user, or by other users. The automation process may be a dynamically adaptable tutorial, such as described in U.S. Patent No. 9,922,008, issued Mar. 20, 2018, entitled "Calling Scripts Based Tutorials". The illustrated embodiment refers to the automation processes as Smart Walk-Thru. However, it is noted that the automation process may be completely automatic, a semi-automatic process requiring user's validation, or a walkthrough illustrating for the user how the GUI of the target system can be used to perform the action on a step-by-step basis.

[00163] In some exemplary embodiments, the automation process may be a parameterized automation process that can be provided with values to its parameters. In some exemplary embodiments, parameter values may be mandatory. The user may associate parameters gathered by the conversation (e.g., by Question Step 550b, 550c, 550d, 550e of Figure 5B). Additionally, or alternatively, the user may associate parameters available to the chat bot, such as based on the user credentials, environment variables, or the like.

[00164] In some exemplary embodiments, Parameter 564a may be selected to refer to Employee ID, gathered by Question Step 550b of Figure 5B. Parameter 564a may be matched to Automation Parameter 564b, `#{employeeID}`. As another example, Parameter 566a may be selected to refer to First Name, gathered by Question Step 550c of Figure 5B. Parameter 566a may be matched to Automation Parameter 566b, `#{firstName}`. As yet another example, Parameter 568a may be selected to refer to Last Name, gathered by Question Step 550d of Figure 5B. Parameter 568a may be matched to Automation Parameter 568b, `#{lastName}`. In some exemplary embodiments, the user may select an automation parameter from a list instead of or in addition to identifying the parameter using its explicit name, as is exemplified by the illustrated embodiment.

[00165] Add Field Button 570 may be configured to add a new matching entry for matching an additional parameter to another automation parameter.

[00166] In some exemplary embodiments, the user may define Delay 572, indicating a delay after the step is evaluated and before it is executed. This may be useful for ensuring
5 the user is able to see the end of the conversation in the chat bot user interface.

[00167] In some exemplary embodiments, Update Button 574 may be configured to update the action based on the user's input in the illustrated screen.

[00168] Referring now to Figure 5D showing a schematic illustration of a user interface, in accordance with the disclosed subject matter. Figure 5D illustrates an editor of a
10 question step for Question Step 550b of Figure 5B.

[00169] The name of the question step, used for the designer of the conversation, may be provided in Step Name Field 580. The text of the question – either fixed or modifiable based on the conversation's context – may be defined in Text Field 584.

[00170] In some exemplary embodiments, the type of variable to be obtained may be
15 defined in Type Field 582. In some exemplary embodiments, the type may be an integer, a real number, a string, a date, or the like. The designer may define any type of variable, may define a domain thereof, may define constraints on the allowed values, such as using conditions, domains, excluded patterns, acceptable patterns, or the like.

[00171] In some exemplary embodiments, suggested values may be defined using
20 Suggestions List 586. The suggestions may be fixed values, values determined based on the context of the conversation, information associated with the user conversing with the chat bot, or the like.

[00172] Additionally or alternatively, Toggle 588 may be turned on to indicate that the values of the answer can only be selected from Suggestions List 586. If Toggle 588 is
25 turned off, other values may be acceptable as well. In some exemplary embodiments, constraints on acceptable values may be defined using conditions, domains, patterns, or the like.

[00173] Upon completing of designing the question, Update Question Button 590 may be pressed to save the new definitions.

[00174] Referring now to Figure 5E showing a schematic illustration of a user interface, in accordance with the disclosed subject matter. Figure 5E illustrates an editor of a condition step for Condition Step 550g of Figure 5B.

5 [00175] A Step Name Field 592 may be used to define a name of the condition step by the designer.

[00176] Condition Builder 594 pane may enable the designer to construct a complex condition. Atomic rules on parameters, such as values obtained during question steps, may be evaluated. As is exemplified in the figure, a rule which examines the value of Business Unit (extracted in Step 550f) is defined. The rule determines whether the value
10 is equal to a fixed value. Additionally or alternatively, other operators can be used instead of "equal to". Additionally or alternatively, the comparison may be with a value of another parameter, a string created based thereon, such as a substring thereof or application of a pattern thereon, or the like. Additional rules may be defined and they may be used to create a complex condition, comprised of logical evaluation of several
15 rules, connected by logical operators such as AND, OR, XOR, NOT, or the like.

[00177] Button 598 may be used to update the condition step in the conversation.

[00178] In some exemplary embodiments, Connections 599 may be used to retrieve field information from external systems, such as for example, SALESFORCE™. As an example, the SALESFORCE™ platform may comprise a field that contains the list of
20 countries. The chat bot may be enabled to retrieve this list and allow the user to select a value from the list. In some exemplary embodiments, Connections 599 may be used as an alternative to manually creating a copy of the same information in definitions of the conversation of the chat bot. Connections 599 may also enable automatically synchronizing potential values to be inputted via the natural language user interface with
25 values of lists, fields, sets, enumerators, or the like, that are already maintained and potentially updated from time to time, in a third-party platforms already used by the organization.

[00179] Referring now to Figure 6 showing a schematic illustration of a user interface, in accordance with the disclosed subject matter. Figure 6 illustrates an editor of an
30 automation process. The automation process may be presented in a similar manner to the manner showing a flow of a conversation, or vice versa. In some exemplary

embodiments, the automation process may be defined exclusively for being performed by a bot. Additionally or alternatively, the automation process may be defined also as for tutorial purposes. The same automation process may be modified and be used for dual purposes – walkthrough and bot-operation. Walkthrough messages to the user and call
5 for actions may be matched by automatic rules for performing the action using parameters provided by the chat bot. In some exemplary embodiments, a parameterized automation process may be defined. If a value of a parameter of the automation process is not provided to the entity implementing the automation process, a default callout message may be provided and the user may be asked to provide the information by herself. Hence,
10 the default callout message may be the message used by the tutorial as a call for action for the user.

[00180] Step 610 may be a message step, providing a message to the user, such as a message indicating an automation is in progress.

[00181] Step 612 may be a page redirect step, where a browser is redirected to a URL.

15 [00182] Step 614 may be a condition step, where a condition is evaluated. Based on the value of the condition, a "YES" branch or a "NO" branch may be taken. As an example, if a "NO" branch is taken, an additional step, Step 616, may be performed to set the state of the browser at a desired state (which was examined in Step 614).

[00183] Steps 618, 620, 622 may be used to input employee identifier, first name and
20 last name, respectively. The GUI of the target system, such as the HTML pages used by the website to allow the user to interact with the web-based system, may be manipulated to input the information gathered by the chat bot and associated with automation parameters (e.g., in Figure 5C).

[00184] Steps 624, 626, 628 may input additional information, such as defined
25 automatically based on current context, based on user information, or the like. In some exemplary embodiments, the additional information may be predetermined and fixed. For example, "employmentStatus" may be set of "Employee" as the automation process is that of adding a new employee.

[00185] Step 630 may select a reporting manager for the new employee from a list of
30 potential managers. The selection may be made based on user provided input in the

conversation, based on automatically determined operation during the automation, or the like.

[00186] On Step 632, a save button in the GUI of the target system may be pressed to save the newly inputted information.

- 5 [00187] Save Button 650 may be pressed to save any updated made to the automation process, such as adding new steps, modifying existing steps, removing steps, changing order in the steps, or the like.

[00188] Additional manners of defining and updating an automation process are described in U.S. Patent No. 9,922,008, issued Mar. 20, 2018, entitled "Calling Scripts
10 Based Tutorials".

[00189] Referring now to Figure 7A showing a schematic illustration of a user interface, in accordance with the disclosed subject matter.

[00190] Screen 700 shows a user interface of the user with a chat bot. The chat bot may have already been launched using a launcher (not shown), such as a button on the button-
15 right corner of the screen. The bot may provide a greeting message upon launching (Message 705). The greeting message may be based on the definition of the chat bot (e.g., 444 of Figure 4A).

[00191] The user may converse with the chat bot using a chat-like interface. A message in free text may be entered into Text Field 720 and provided upon the user pressing enter
20 or the Send Button 725. Additionally or alternatively, speech to text may be employed to analyze speech of the user and generate a text string based thereon. The text string may be entered to Text Field 720 and inputted (e.g., Send Button 725 may be pressed).

[00192] Additionally or alternatively, the user may select a conversation from suggested conversations of the bot (710). The user may select the conversation by pressing it or by
25 stating in the Text Field 720 the name of the conversation.

[00193] Referring now to Figure 7B, where the user indicated in Message 730 that she wants to add a new employee. The chat bot may start to implemented the conversation flow of the selected conversation. For example, the flow shown in Editor 540 of Figure 5B. A Message 732 is shown as an outcome of Step 550a, then the chat bot follows Step

550b and attempts to obtain from the user an employee id (Message 732). The user may reply using Text Field 720 and indicate an identifier (123456).

[00194] The present invention may be a system, a method, and/or a computer program product. The computer program product may include a computer readable storage medium (or media) having computer readable program instructions thereon for causing a processor to carry out aspects of the present invention.

[00195] The computer readable storage medium can be a tangible device that can retain and store instructions for use by an instruction execution device. The computer readable storage medium may be, for example, but is not limited to, an electronic storage device, a magnetic storage device, an optical storage device, an electromagnetic storage device, a semiconductor storage device, or any suitable combination of the foregoing. A non-exhaustive list of more specific examples of the computer readable storage medium includes the following: a portable computer diskette, a hard disk, a random access memory (RAM), a read-only memory (ROM), an erasable programmable read-only memory (EPROM or Flash memory), a static random access memory (SRAM), a portable compact disc read-only memory (CD-ROM), a digital versatile disk (DVD), a memory stick, a floppy disk, a mechanically encoded device such as punch-cards or raised structures in a groove having instructions recorded thereon, and any suitable combination of the foregoing. A computer readable storage medium, as used herein, is not to be construed as being transitory signals per se, such as radio waves or other freely propagating electromagnetic waves, electromagnetic waves propagating through a waveguide or other transmission media (e.g., light pulses passing through a fiber-optic cable), or electrical signals transmitted through a wire.

[00196] Computer readable program instructions described herein can be downloaded to respective computing/processing devices from a computer readable storage medium or to an external computer or external storage device via a network, for example, the Internet, a local area network, a wide area network and/or a wireless network. The network may comprise copper transmission cables, optical transmission fibers, wireless transmission, routers, firewalls, switches, gateway computers and/or edge servers. A network adapter card or network interface in each computing/processing device receives computer readable program instructions from the network and forwards the computer

readable program instructions for storage in a computer readable storage medium within the respective computing/processing device.

[00197] Computer readable program instructions for carrying out operations of the present invention may be assembler instructions, instruction-set-architecture (ISA) instructions, machine instructions, machine dependent instructions, microcode, firmware instructions, state-setting data, or either source code or object code written in any combination of one or more programming languages, including an object oriented programming language such as Smalltalk, C++ or the like, and conventional procedural programming languages, such as the "C" programming language or similar programming languages. The computer readable program instructions may execute entirely on the user's computer, partly on the user's computer, as a stand-alone software package, partly on the user's computer and partly on a remote computer or entirely on the remote computer or server. In the latter scenario, the remote computer may be connected to the user's computer through any type of network, including a local area network (LAN) or a wide area network (WAN), or the connection may be made to an external computer (for example, through the Internet using an Internet Service Provider). In some embodiments, electronic circuitry including, for example, programmable logic circuitry, field-programmable gate arrays (FPGA), or programmable logic arrays (PLA) may execute the computer readable program instructions by utilizing state information of the computer readable program instructions to personalize the electronic circuitry, in order to perform aspects of the present invention.

[00198] Aspects of the present invention are described herein with reference to flowchart illustrations and/or block diagrams of methods, apparatus (systems), and computer program products according to embodiments of the invention. It will be understood that each block of the flowchart illustrations and/or block diagrams, and combinations of blocks in the flowchart illustrations and/or block diagrams, can be implemented by computer readable program instructions.

[00199] These computer readable program instructions may be provided to a processor of a general purpose computer, special purpose computer, or other programmable data processing apparatus to produce a machine, such that the instructions, which execute via the processor of the computer or other programmable data processing apparatus, create

means for implementing the functions/acts specified in the flowchart and/or block diagram block or blocks. These computer readable program instructions may also be stored in a computer readable storage medium that can direct a computer, a programmable data processing apparatus, and/or other devices to function in a particular manner, such that the computer readable storage medium having instructions stored therein comprises an article of manufacture including instructions which implement aspects of the function/act specified in the flowchart and/or block diagram block or blocks.

[00200] The computer readable program instructions may also be loaded onto a computer, other programmable data processing apparatus, or other device to cause a series of operational steps to be performed on the computer, other programmable apparatus or other device to produce a computer implemented process, such that the instructions which execute on the computer, other programmable apparatus, or other device implement the functions/acts specified in the flowchart and/or block diagram block or blocks.

[00201] The flowchart and block diagrams in the Figures illustrate the architecture, functionality, and operation of possible implementations of systems, methods, and computer program products according to various embodiments of the present invention. In this regard, each block in the flowchart or block diagrams may represent a module, segment, or portion of instructions, which comprises one or more executable instructions for implementing the specified logical function(s). In some alternative implementations, the functions noted in the block may occur out of the order noted in the figures. For example, two blocks shown in succession may, in fact, be executed substantially concurrently, or the blocks may sometimes be executed in the reverse order, depending upon the functionality involved. It will also be noted that each block of the block diagrams and/or flowchart illustration, and combinations of blocks in the block diagrams and/or flowchart illustration, can be implemented by special purpose hardware-based systems that perform the specified functions or acts or carry out combinations of special purpose hardware and computer instructions.

[00202] The terminology used herein is for the purpose of describing particular embodiments only and is not intended to be limiting of the invention. As used herein, the

singular forms "a", "an" and "the" are intended to include the plural forms as well, unless the context clearly indicates otherwise. It will be further understood that the terms "comprises" and/or "comprising," when used in this specification, specify the presence of stated features, integers, steps, operations, elements, and/or components, but do not
5 preclude the presence or addition of one or more other features, integers, steps, operations, elements, components, and/or groups thereof.

[00203] The corresponding structures, materials, acts, and equivalents of all means or step plus function elements in the claims below are intended to include any structure, material, or act for performing the function in combination with other claimed elements
10 as specifically claimed. The description of the present invention has been presented for purposes of illustration and description, but is not intended to be exhaustive or limited to the invention in the form disclosed. Many modifications and variations will be apparent to those of ordinary skill in the art without departing from the scope and spirit of the invention. The embodiment was chosen and described in order to best explain the
15 principles of the invention and the practical application, and to enable others of ordinary skill in the art to understand the invention for various embodiments with various modifications as are suited to the particular use contemplated.

CLAIMS

What is claimed is:

1. A chat-bot program product, wherein the chat-bot program product comprises non-transitory computer readable medium retaining program instructions, which
5 program instructions when read by a processor, cause the processor to:
 - receive a user instruction from a user using a natural language interface;
 - determine to implement an automation process on a web-based target system in response to the user instruction;
 - collect information to be used as part of the automation process; and
 - 10 implement the automation process by interacting with a Graphical User Interface (GUI) of the web-based target system and simulating user input to the GUI of the web-based target system, wherein the automation process is performed with respect to third-party web-based target system and without relying on an Application Programming Interface (API) exposed by the web-based target system, wherein the implementation of the automatic process
15 comprises:
 - automatically and without user input, filling in a text input field in the GUI of the web-based target system; and
 - automatically and without user input, interacting with a widget
20 in the GUI to cause the web-based target system to perform a predefined functionality.
2. The chat-bot program product of Claim 1, wherein the chat-bot program product is configured to implement the automation process by a client device used by the user.
3. The chat-bot program product of Claim 2, wherein the chat-bot program product is
25 configured to implement the automation process by a browser that is executed by the client device.
4. The chat-bot program product of Claim 1, wherein the chat-bot program product is configured to converse with the user in natural language using a vocal interface.

5. The chat-bot program product of Claim 1, wherein the automation process is configured to automatically fill information in an online form, wherein the online form comprises the text input field, wherein the widget is configured to invoke submission of the online form, wherein the chat-bot program product is configured to request user validation from the user before submitting the online form.
6. The chat-bot program product of Claim 1, wherein the information comprises information of the user, whereby personalizing the automation process.
7. The chat-bot program product of Claim 1, wherein the chat-bot program product is configured to utilize credentials of the user, whereby the chat-bot is privy to user-specific information.
8. The chat-bot program product of Claim 1, wherein implementation of the automation process is performed by automatically identifying the widget in the GUI and by automatically identifying the text input field in the GUI.
9. A method comprising:
 - receiving a user instruction from a user using a natural language interface of a chat-bot;
 - determining to implement an automation process on a web-based target system in response to the user instruction;
 - collecting information to be used as part of the automation process; and
 - implementing the automation process by interacting with a Graphical User Interface (GUI) of the web-based target system and simulating user input to the GUI of the web-based target system, wherein the automation process is performed with respect to third-party web-based target system and without relying on an Application Programming Interface (API) exposed by the web-based target system, wherein said implementing the automatic process comprises:
 - automatically and without user input, filling in a text input field in the GUI of the web-based target system; and

automatically and without user input, interacting with a widget
in the GUI to cause the web-based target system to perform a
predefined functionality.

10. The method of Claim 9, wherein said implementing is performed by a client device
5 used by the user.
11. The method of Claim 10, wherein said implementing is performed by a browser that
is executed by the client device.
12. The method of Claim 9, wherein the chat-bot is configured to converse with the user
in natural language using a vocal interface.
- 10 13. The method of Claim 9, wherein the automation process is configured to
automatically fill information in an online form in the GUI, wherein the online form
comprises the text input field, wherein the widget is configured to invoke submission
of the online form, wherein the method further comprises requesting user validation
from the user before submitting the online form.
- 15 14. The method of Claim 9, wherein the information comprises information of the user,
whereby personalizing the automation process.
15. The method of Claim 9, wherein said implementing the automation process
comprises:
 - automatically identifying the widget in the GUI; and
 - 20 automatically identifying the text input field in the GUI.
16. A computerized apparatus comprising a processor and coupled memory, the
processor being adapted to perform:
 - 25 receiving a user instruction from a user using a natural language interface of
a chat-bot;
 - determining to implement an automation process on a web-based target
system in response to the user instruction;

- collecting information to be used as part of the automation process; and
implementing the automation process by interacting with a Graphical User
Interface (GUI) of the web-based target system and simulating user input to the
GUI of the web-based target system, wherein the automation process is
5 performed with respect to third-party web-based target system and without
relying on an Application Programming Interface (API) exposed by the web-
based target system, wherein said implementing the automatic process comprises:
automatically and without user input, filling in a text input field
in the GUI of the web-based target system; and
10 automatically and without user input, interacting with a widget
in the GUI to cause the web-based target system to perform a
predefined functionality.
17. The computerized apparatus of Claim 16, wherein the computerized apparatus is a
client device used by the user, wherein said implementing is performed by a browser
15 that is executed by the client device.
18. The computerized apparatus of Claim 16, wherein the chat-bot is configured to
converse with the user in natural language using a vocal interface.
19. The computerized apparatus of Claim 16, wherein the automation process is
configured to automatically fill information in an online form in the GUI, wherein
20 the online form comprises the text input field, wherein the widget is configured to
invoke submission of the online form, wherein the method further comprises
requesting user validation from the user before submitting the online form.
20. The computerized apparatus of Claim 16, wherein said implementing the automation
process comprises:
25 automatically identifying the widget in the GUI; and
automatically identifying the text input field in the GUI.

ABSTRACT

A method, apparatus and product for chat-based application interface for automation. Using a natural language interface, receiving user input. Based on the user input, determining an automation process of a computer program having a user interface (UI), to be executed. The automation process is executed by utilizing the UI to input data thereto or execute functionality thereof. Additionally or alternatively, a conversation to be implemented by a natural language interface may be defined. The conversation is configured to obtain from the user one or more values corresponding to one or more parameters. The conversation is associated with a parameterized automation process depending on the one or more parameters. The parameterized automation process is invoked automatically by a natural language interface and using one or more values provided by the user to the natural language interface for the one or more parameters.

15

Electronic Patent Application Fee Transmittal				
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First Named Inventor/Applicant Name:		Nir NAHUM		
Filer:		MARK I KOFFSKY		
Attorney Docket Number:		1179.0236 (583-6.6USCON2)		
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UTILITY SEARCH FEE	1111	1	700	700
UTILITY EXAMINATION FEE	1311	1	800	800
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Claims:				
Miscellaneous-Filing:				
Petition:				
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Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
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6		Spec.pdf	284606	yes	44
			ea307bfed76b546a40adedc2f49176b8cda63f39		
	Multipart Description/PDF files in .zip description				
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	Specification		1	39
	Claims		40	43
	Abstract		44	44
Warnings:				
Information:				
7	Fee Worksheet (SB06)	fee-info.pdf	44540	no
			783e59f8eba750e603139a71ea20f2f51999be70	2
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		Application Number	
Title of Invention	Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot		
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.			

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☐ 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.)

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Title of Invention	Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot		

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For further information see 37 CFR 1.33(a).

☐ An Address is being provided for the correspondence information of this application.

Customer Number	106928		
Email Address	patent@koffskyschwalb.com	Add Email	Remove Email
Email Address	mikuspto@gmail.com	Add Email	Remove Email

Application Information:

Title of the Invention	Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot		
Attorney Docket Number	1179.0236 (583-6.6USCON2)	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)		Suggested Figure for Publication (if any)	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

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

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

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
--------------------	--	--	---

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	1179.0236 (583-6.6USCON2)
		Application Number	
Title of Invention	Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot		
Customer Number	106928		

Domestic Benefit/National Stage Information:

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

Prior Application Status	Pending	Remove			
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
	Continuation of	17206305	2020-09-21		
Prior Application Status	Patented	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
17206305	Continuation of	16358467	2019-03-19	10819694	2020-10-27
Prior Application Status	Pending	Remove			
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
16358467	Continuation of	PCT/IL2018/051168	2018-11-04		
Prior Application Status	Expired	Remove			
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
PCT/IL2018/051168	Claims benefit of provisional	62581714	2017-11-05		
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button. Add					

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)ⁱ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

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

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	1179.0236 (583-6.6USCON2)
		Application Number	
Title of Invention	Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot		
Additional Foreign Priority Data may be generated within this form by selecting the Add button. Add			

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

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	1179.0236 (583-6.6USCON2)
		Application Number	
Title of Invention	Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot		

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	1179.0236 (583-6.6USCON2)
		Application Number	
Title of Invention	Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot		

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.			
Applicant	1	Remove	
If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.			
		Clear	
☒ Assignee		Legal Representative under 35 U.S.C. 117	
		Joint Inventor	
Person to whom the inventor is obligated to assign.		Person who shows sufficient proprietary interest	
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:			
Name of the Deceased or Legally Incapacitated Inventor: 			
If the Applicant is an Organization check here. ☒			
Organization Name		WalkMe LTD.	
Mailing Address Information For Applicant:			
Address 1		3 Kremenetski St.	
Address 2			
City		Tel Aviv	State/Province
Country		IL	Postal Code
Phone Number			Fax Number
Email Address			
Additional Applicant Data may be generated within this form by selecting the Add button.			Add

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	1179.0236 (583-6.6USCON2)
		Application Number	
Title of Invention	Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot		

Assignee 1				
Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.				
				Remove
If the Assignee or Non-Applicant Assignee is an Organization check here.				☐
Prefix	Given Name	Middle Name	Family Name	Suffix
Mailing Address Information For Assignee including Non-Applicant Assignee:				
Address 1				
Address 2				
City		State/Province		
Country i		Postal Code		
Phone Number		Fax Number		
Email Address				
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.				Add

Signature:

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

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

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

Signature	/Mark I. Koffsky/		Date (YYYY-MM-DD)	2022-01-18
First Name	Mark	Last Name	Koffsky	Registration Number
				41906
Additional Signature may be generated within this form by selecting the Add button.				Add

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	1179.0236 (583-6.6USCON2)
		Application Number	
Title of Invention	Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot		

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

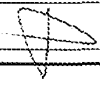
The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection 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.

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.

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

Title of Invention	CHAT-BASED APPLICATION INTERFACE FOR AUTOMATION
As the below named inventor, I hereby declare that: This declaration is directed to: ☒ The attached application, or ☐ United States application or PCT international application number _____ filed on _____ The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. WARNING: Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.	
LEGAL NAME OF INVENTOR Inventor: Shlomi SASSON Date (Optional): 1/5/19 Signature: 	
Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.	

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

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

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

Title of
Invention

CHAT-BASED APPLICATION INTERFACE FOR AUTOMATION

As the below named inventor, I hereby declare that:

This declaration
is directed to:



The attached application, or



United States application or PCT international application number _____
filed on _____.

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

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001
by fine or imprisonment of not more than five (5) years, or both.

WARNING:

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

LEGAL NAME OF INVENTOR

Inventor: Nir NAHUM

Date (Optional): Mar 17, 2019

Signature: _____

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

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

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

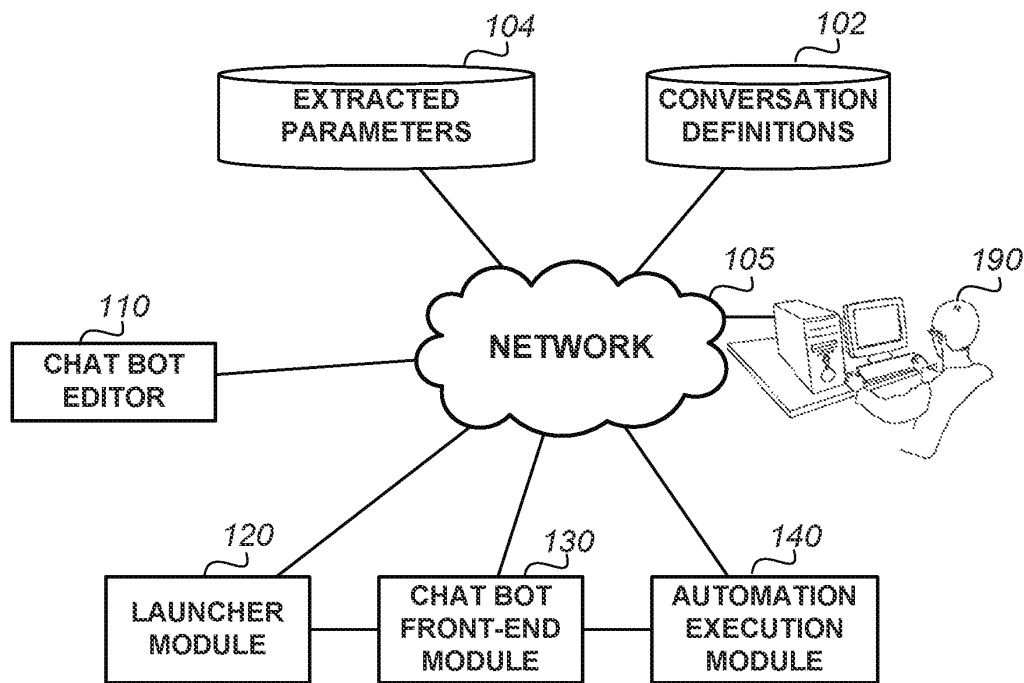


FIG. 1

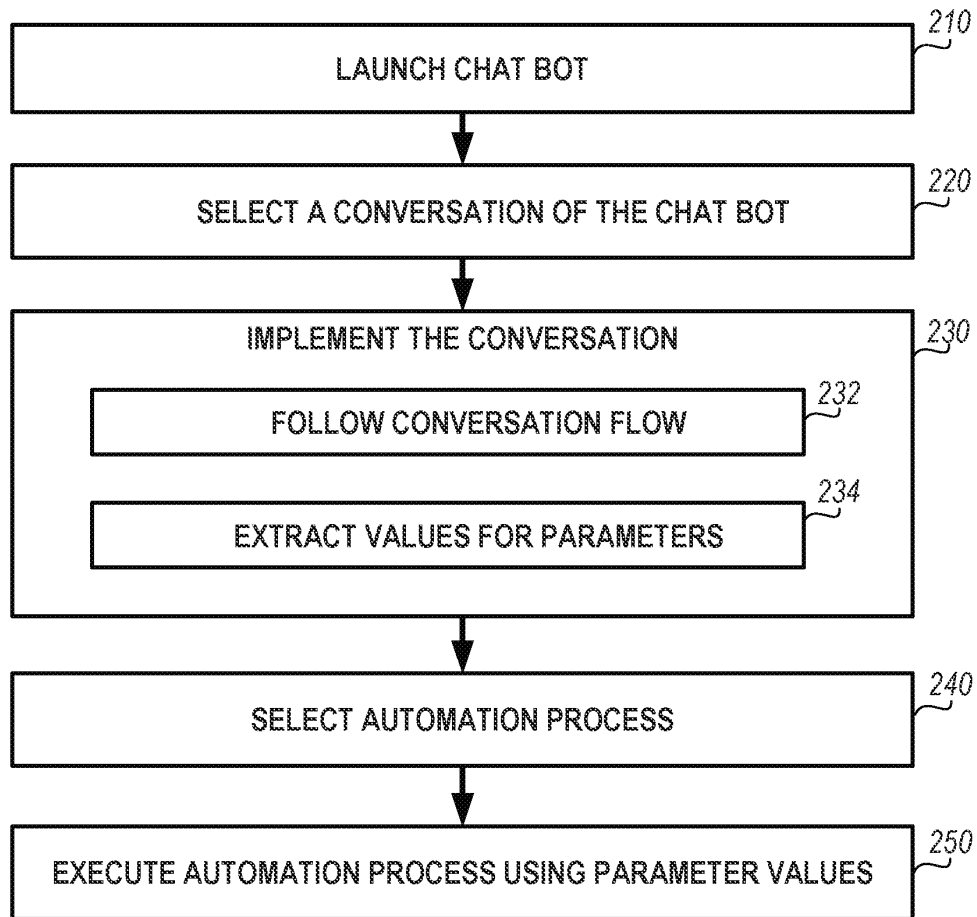


FIG. 2A

3/14

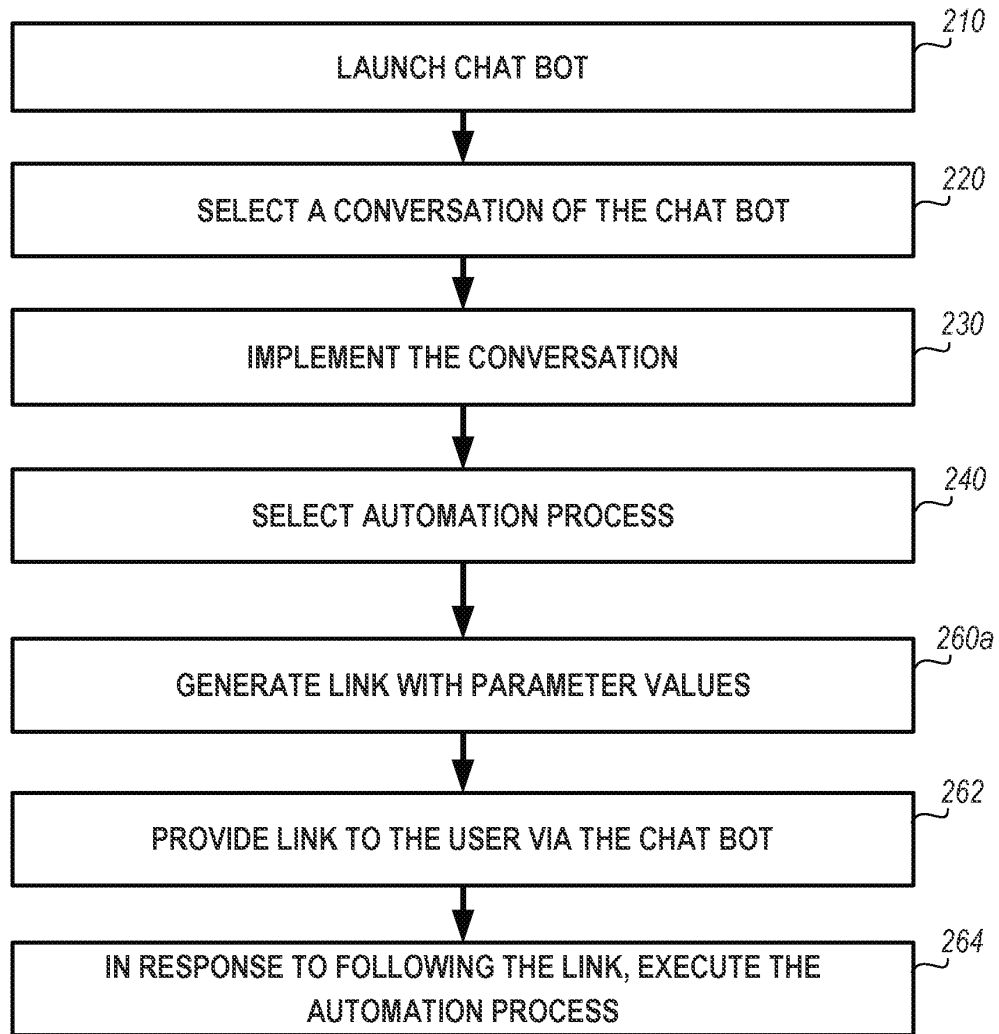


FIG. 2B

4/14

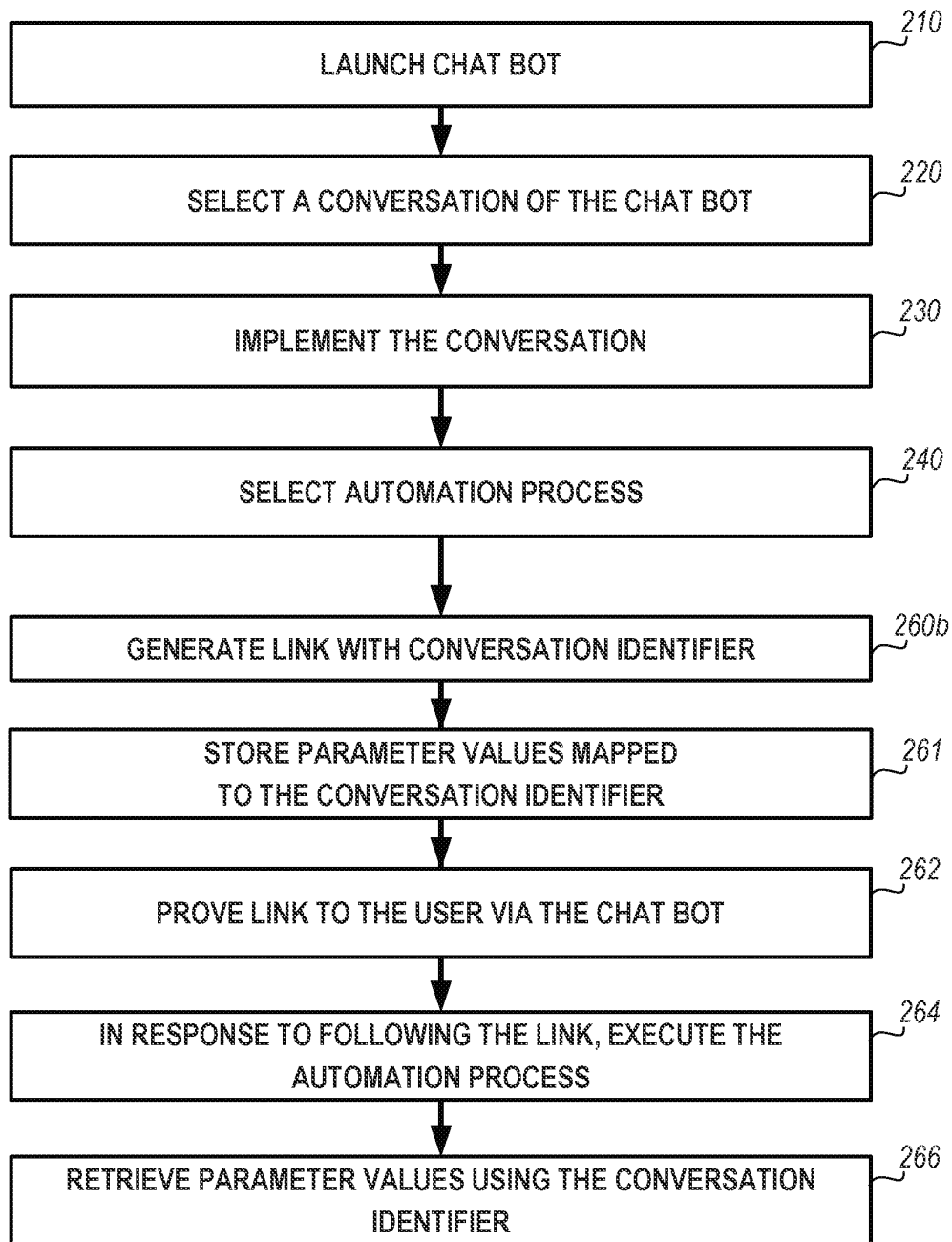


FIG. 2C

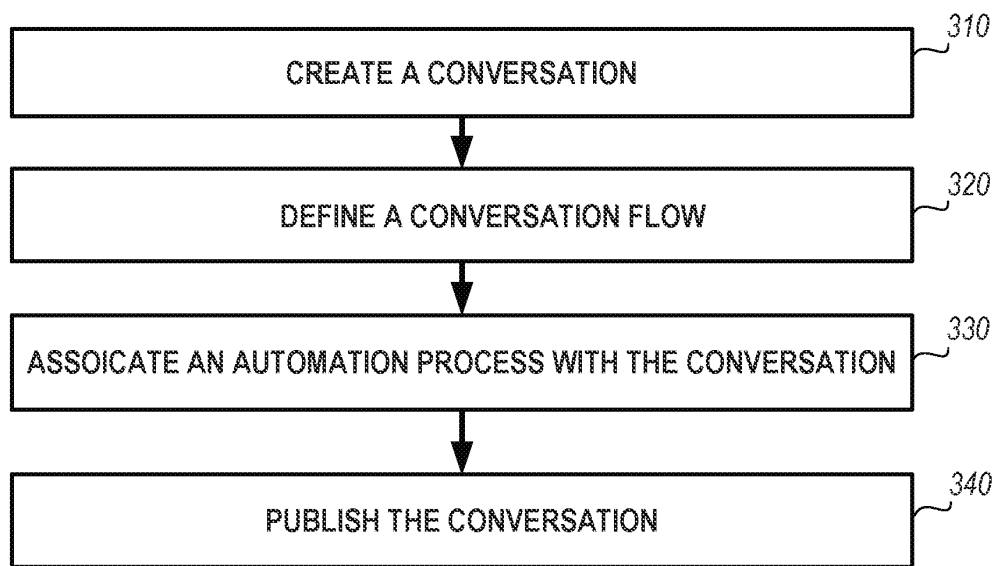


FIG. 3

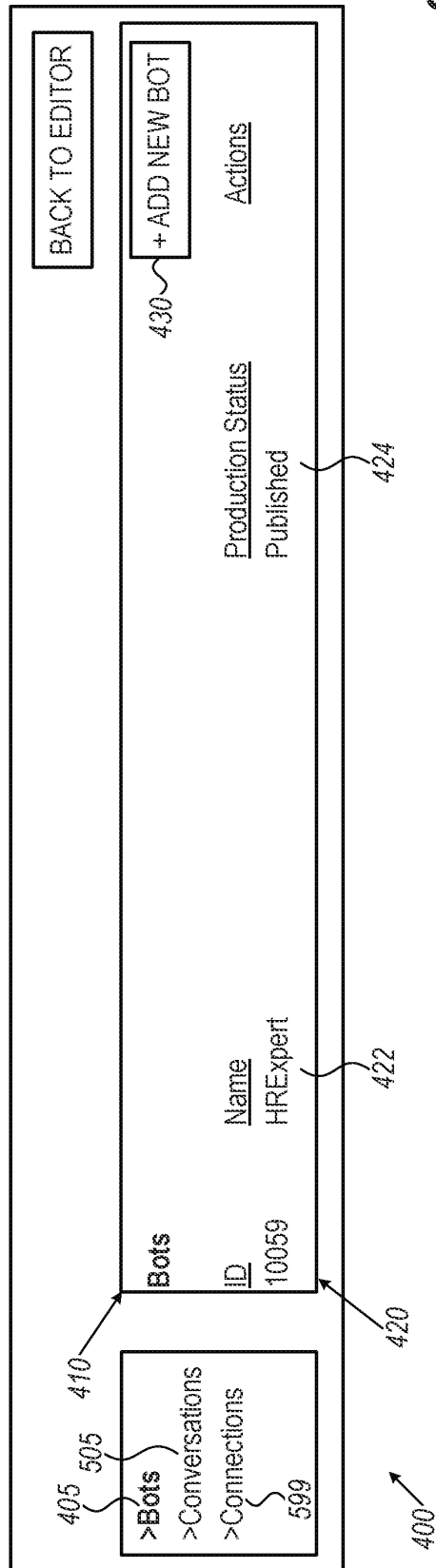


Fig. 4A

← Bots

HRExpert

405 505

>Bots
>Conversations
>Connections
599

440

✓ Bot Settings

* Name

HRExpert 442

* Greeting Messages

Hi! How can I help you today? Please remember I'm a bot. 444

* Assign Conversations (3)

446a 446b 446c 446

Open New Requisition x Add Expenses x Add New Employee x

* Set conversation as suggested

Open New Requisition x Add Expenses x Add New Employee x

Accept Suggested Conversations Only 448

450 ☒

* Message When No Matched Conversations 452

I'm sorry I didn't get your answer, I'm only a bot. Try to be more specific

✓ Launchers

Assign Launchers

ActionBot - 175295 x 454a 454

> Default Text And Messages

> Custom style

460 UNPUBLISH

Fig. 4B

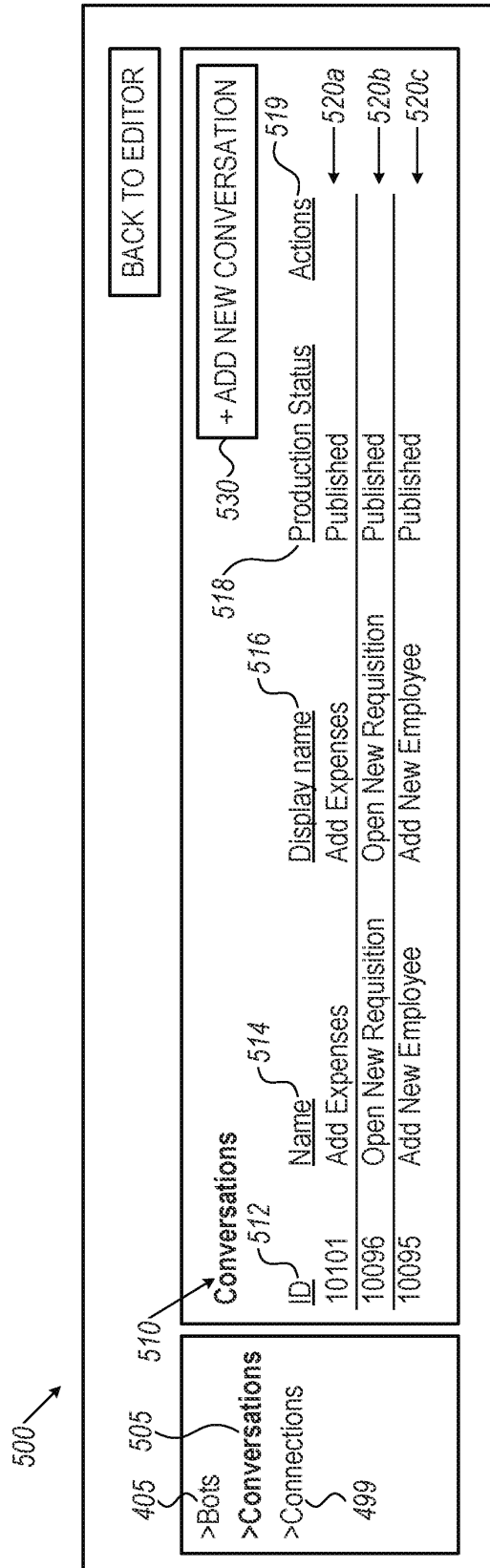


Fig. 5A

>Bots

>Conversations

>Connections

← Conversations

Add New Employee

✓ Conversation Settings

* Name 542

* Display Name 544

* Keyword To Search By (Intent)

Add New Employee

Add New Employee

new x

employee x

new employee x

546

ADD MESSAGE 552

ADD QUESTION 554

ADD CONDITION 556

ADD ACTION 558

Type	ID	Name	Next step	Actions
...	10497	Start	Employee ID	550a
?	10498	Employee ID	First Name	550b
?	10500	First Name	Last Name	550c
?	10501	Last Name	Email	550d
?	10512	Email	Business Unit	550e
?	10513	Business Unit	Business Unit = Grand Avenue ?	550f
🔗	10548	Business Unit = Grand Avenue ?		550g
↑			Success step:	550h
			Fail step:	550i
🔔	10520	Add New Employee - Orange Blossom		
🔔	10547	Add new Employee - Grand Avenue		

UNPUBLISH

Fig. 5B

405

505

>Bots

>**Conversations**

>Connections

599

← Conversations

Add New Employee – Orange Blossom

* Action Name

Add New Employee – Orange Blossom 560

Smart Walk-Thru

Bot - Add New Employee (1811969) 562 v

Data The Smart Walk – Thru Requires

564a Employee ID v	Name As	\${employeeID} 564b
566a First Name v	Name As	\${firstName} 566b
568a Last Name v	Name As	\${lastName} 568b
Email v	Name As	\${email}
Business Unit v	Name As	\${businessUnit}

+ Add Field

* Delay

572 1000
Milliseconds

574 UPDATE ACTION IN THE CONVERSATION

Fig. 5C

← Add New Employee

EMPLOYEE ID

>Bots

>Conversations

>Connections

▽ Question Settings

* Question Name

Employee ID 580 ▾

* Question Type

Number 582 ▾

* Question Text

What would be the employee ID? (Please use numbers) 584

Suggestions

586

Accept Suggests Only

588 ☒

* Error Message

I'm sorry I didn't understand, let's try again.

* Delay

0 Milliseconds

590 UPDATE QUESTION

Fig. 5D

505
>Bots
>Conversations
>Connections
599

← Add New Employee
Business Unit - Grand Avenue

Condition settings
* Condition Name
Business Unit = Grand Avenue ?
592

* Condition builder
Business Unit ▾ equal to ▾ Grand Avenue ▾ And ▾ Recycle bin
594

Suggested values ▾
+ ADD NEW RULE
596

UPDATE CONDITION IN THE CONVERSATION ~ 598

Fig. 5E

13/14

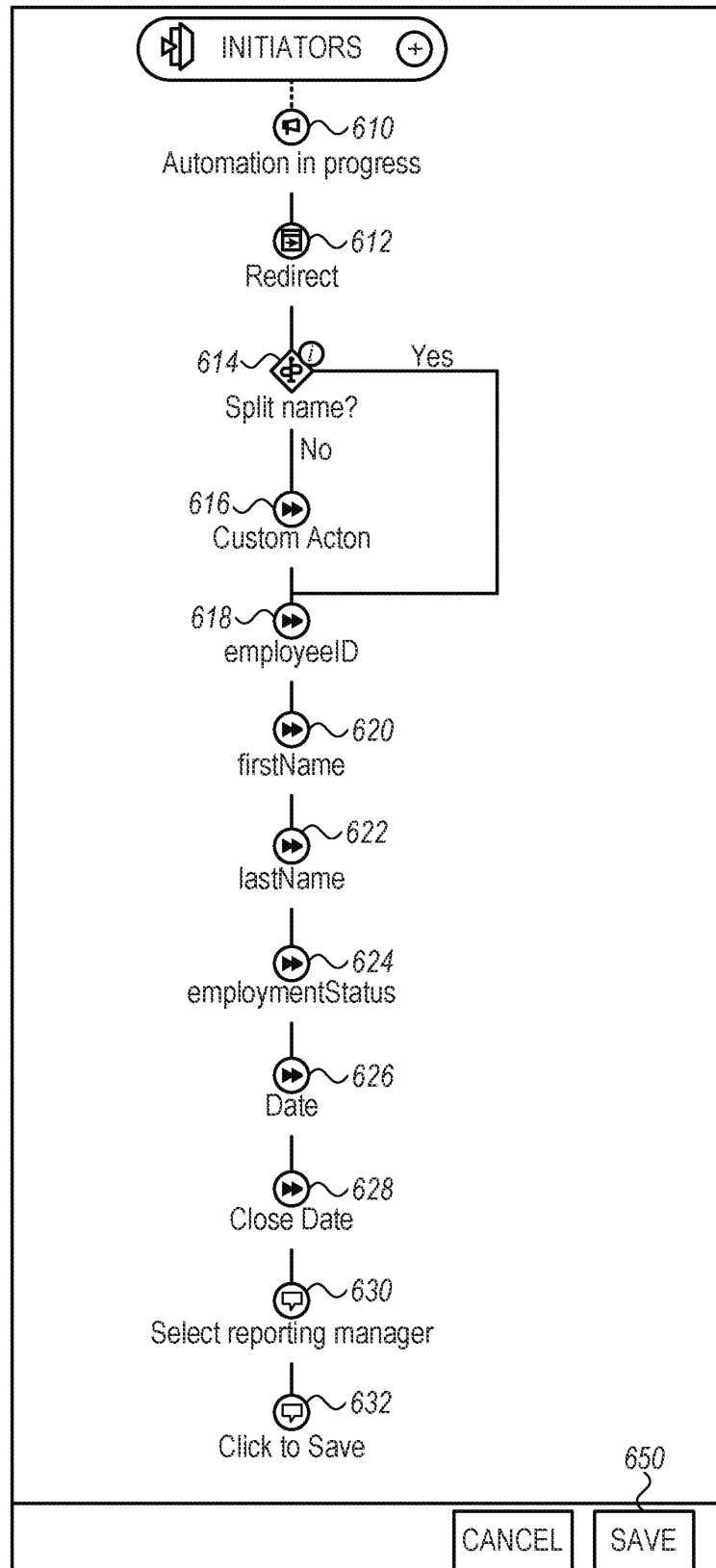


Fig. 6

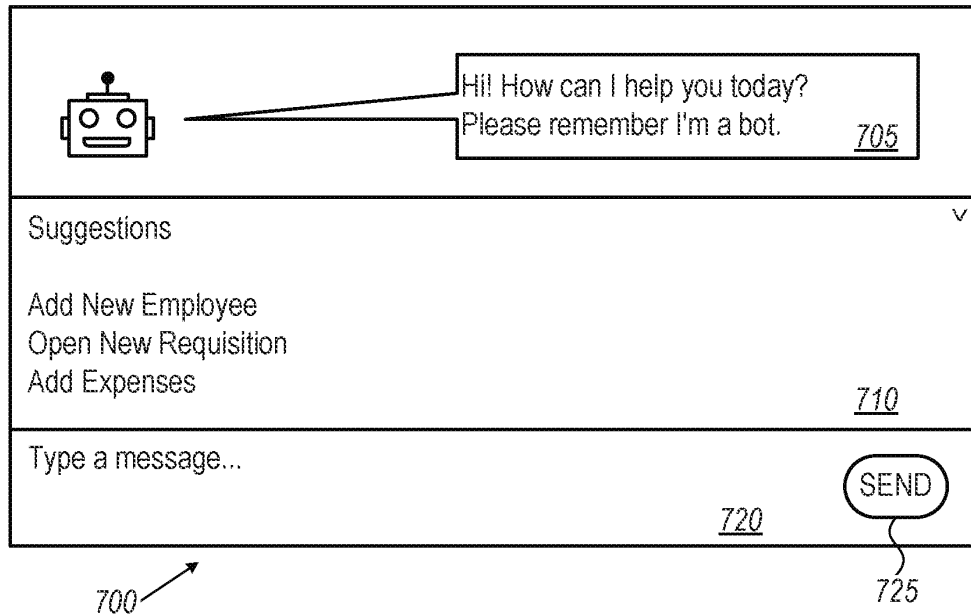


Fig. 7A

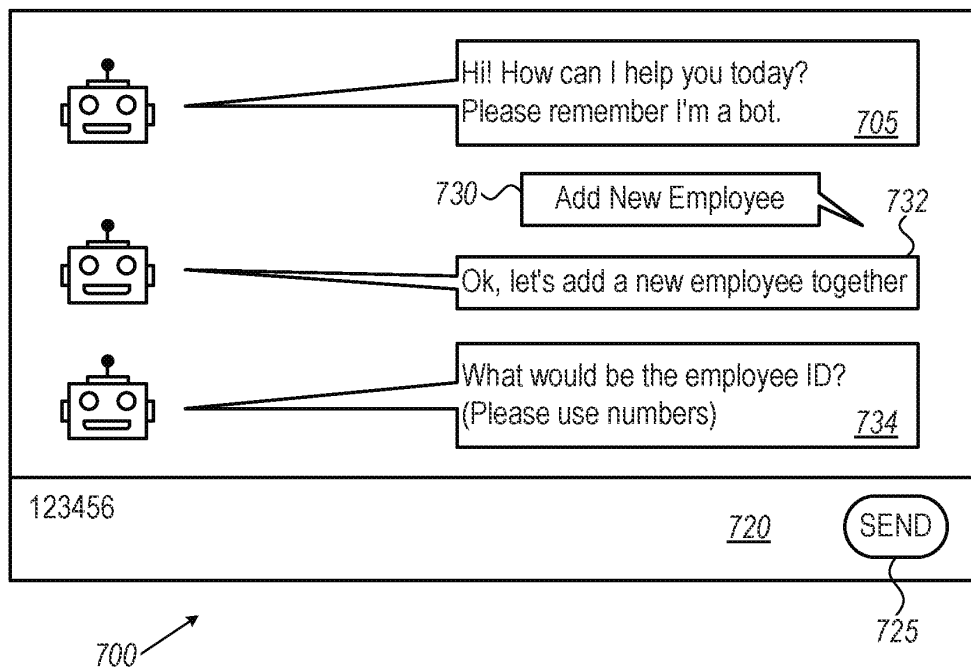


Fig. 7B

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA/82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	Herewith
Filing Date	January 18, 2021
First Named Inventor	Nir Nahum
Title	Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot
Art Unit	TBD
Examiner Name	TBD
Attorney Docket Number	1179.0236 (583-6.6USCON2)

SIGNATURE of Applicant or Patent Practitioner

Signature	/Mark I. Koffsky/	Date (Optional)	
Name	Mark I. Koffsky	Registration Number	41906
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

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

☐

*Total of _____ forms are submitted.

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

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

Doc Code: PA..

Document Description: Power of Attorney

PTO/AIA/82B (07-13)

Approved for use through 11/30/2014. OMB 0651-0051

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

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

POWER OF ATTORNEY BY APPLICANT

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

Application Number	Filing Date

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

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

106928

OR

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

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

☒ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number:

OR

Firm or Individual Name				
Address				
City	State	Zip		
Country				
Telephone	Email			

I am the Applicant (If the Applicant is a juristic entity, list the Applicant name in the box):

WalkMe LTD.

- ☐ Inventor or Joint Inventor (title not required below)
- ☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)
- ☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)
- ☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

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

Signature	Date (Optional)
David Sussely	12/03/2019
Name	
Title	VP Finance

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

☐ Total of forms are submitted.

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

SCORE Placeholder Sheet for IFW Content

Application Number: 17577530

Document Date: 01/18/2022

The presence of this form in the IFW record indicates that the following document type was received in electronic format on the date identified above. This content is stored in the SCORE database.

Since this was an electronic submission, there is no physical artifact folder, no artifact folder is recorded in PALM, and no paper documents or physical media exist. The TIFF images in the IFW record were created from the original documents that are stored in SCORE.

- Drawing

At the time of document entry (noted above):

- USPTO employees may access SCORE content via DAV or via the SCORE web page.
- External customers may access SCORE content via PAIR using the Supplemental Content tab.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 17/577,530				
APPLICATION AS FILED - PART I										
(Column 1)		(Column 2)		SMALL ENTITY		OTHER THAN SMALL ENTITY				
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)			
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	320			
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A	700			
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	800			
TOTAL CLAIMS (37 CFR 1.16(j))	20	minus 20 = *			OR	x 100 =	0.00			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3	minus 3 = *			OR	x 480 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL		TOTAL	1820			
APPLICATION AS AMENDED - PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=	OR	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
TOTAL ADD'L FEE								OR	TOTAL ADD'L FEE	
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=	OR	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
TOTAL ADD'L FEE								OR	TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.										



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United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
17/577,530	01/18/2022	2192	1820	1179.0236 (583-6.6USCON2)	20	3

CONFIRMATION NO. 5885

FILING RECEIPT



106928
Koffsky Schwalb LLC
500 Seventh Avenue
8th Floor
New York, NY 10018

Date Mailed: 01/28/2022

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

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

Inventor(s)

Nir NAHUM, Tel Aviv, ISRAEL;
Shlomi SASSON, Givat Zeev, ISRAEL;

Applicant(s)

WalkMe LTD., Tel Aviv, ISRAEL;

Power of Attorney: The patent practitioners associated with Customer Number 106928

Domestic Priority data as claimed by applicant

This application is a CON of 17/206,305 03/19/2021 *
which is a CON of 16/358,467 03/19/2019 PAT 10819664
which is a CON of PCT/IL2018/051168 11/04/2018
which claims benefit of 62/581,714 11/05/2017
(*)Data provided by applicant is not consistent with PTO records.

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

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

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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

If Required, Foreign Filing License Granted: 01/26/2022

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/577,530**

Projected Publication Date: 05/05/2022

Non-Publication Request: No

Early Publication Request: No
Title

Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot

Preliminary Class

717

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific

page 2 of 4

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).

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

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

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

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

NOT GRANTED

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

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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.

CORRECTED ADS FORM

Application Number	17577530
Title of Invention	Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot

Inventor Information

****If no data is shown, no data has been corrected****

	Data of Record	Updated Data
Order Number		
Name		

Residence Information

Residency		
City		
State		
Country of Residence		

Mailing Address of Inventor

Address 1		
Address 2		
City,State/Province, Postal Code		
Country		

Application Information

	Data of Record	Updated Data
Title of Invention	Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot	
Attorney Docket Number	1179.0236 (583-6.6USCON2)	
Entity Type	Regular Undiscounted	

Domestic Benefit/National Stage Information

****If no data is shown, no data has been corrected****

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing 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(a).

	Data of Record	Updated Data
Prior Application Status	pending	
Application Number	17577530	
Continuity Type	CON	
Prior Application Number	~~17206305~~	<u>17026305</u>
Filing Date (YYYY-MM-DD)	~~2021-03-19~~	<u>2020-09-21</u>
Patent Number		
Issue Date (YYYY-MM-DD)		

		Data of Record	Updated Data
	Prior Application Status	patented	
	Application Number	17206305	
	Continuity Type	CON	
	Prior Application Number	16358467	
	Filing Date (YYYY-MM-DD)	2019-03-19	
	Patent Number	10819664	
	Issue Date (YYYY-MM-DD)	2020-10-27	
		Data of Record	Updated Data
	Prior Application Status		
	Application Number	16358467	
	Continuity Type	CON	
	Prior Application Number	PCT/IL2018/051168	
	Filing Date (YYYY-MM-DD)	2018-11-04	
	Patent Number		
	Issue Date (YYYY-MM-DD)		
		Data of Record	Updated Data
	Prior Application Status	pending	
	Application Number	PCT/IL2018/051168	
	Continuity Type	PRO	
	Prior Application Number	62581714	
	Filing Date (YYYY-MM-DD)	2017-11-05	
	Patent Number		
	Issue Date (YYYY-MM-DD)		

Foreign Priority Information

****If no data is shown, no data has been corrected****

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX) the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

	Data of Record	Updated Data
Application Number		
Country		
Filing Date		
Access Code		

Applicant Information

****If no data is shown, no data has been corrected****

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.

	Data of Record	Updated Data
Applicant Type		
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		
Applicant is an Organization		
Name		
Organization Name		
Address 1		

Address 2		
City,State/Province,Postal Code		
Country		
Phone Number		
Fax Number		
Email Address		

Assignee Information including Non-Applicant Assignee Information

****If no data is shown, no data has been corrected****

Providing this information in the application data sheet does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded in the Office

	Data of Record	Updated Data
Order		
Applicant is an Organization		
Name		
Organization Name		

Mailing Address

Address 1		
Address 2		
City,State/Province,Postal Code		
Country		
Phone Number		
Fax Number		

Email Address		
---------------	--	--

Signature

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b).

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

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

Signature	/Mark I. Koffsky/	Registration Number	41906
First Name	Mark	Last Name	Koffsky

Electronic Acknowledgement Receipt	
EFS ID:	44864598
Application Number:	17577530
International Application Number:	
Confirmation Number:	5885
Title of Invention:	Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot
First Named Inventor/Applicant Name:	Nir NAHUM
Customer Number:	106928
Filer:	MARK I KOFFSKY
Filer Authorized By:	
Attorney Docket Number:	1179.0236 (583-6.6USCON2)
Receipt Date:	28-JAN-2022
Filing Date:	18-JAN-2022
Time Stamp:	14:45:57
Application Type:	Utility under 35 USC 111(a)

Payment information:

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

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet to update/ correct info	CorrectedADS.pdf	129603	no	6
			ba00ae2b35b7e2b76d994e9fb537399916758b7f1		

Warnings:

Information:	
Total Files Size (in bytes):	129603
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.	

CORRECTED ADS FORM

Application Number	17577530
Title of Invention	Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot

Inventor Information

****If no data is shown, no data has been corrected****

	Data of Record	Updated Data
Order Number		
Name		

Residence Information

Residency		
City		
State		
Country of Residence		

Mailing Address of Inventor

Address 1		
Address 2		
City,State/Province, Postal Code		
Country		

Application Information

	Data of Record	Updated Data
Title of Invention	Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot	
Attorney Docket Number	1179.0236 (583-6.6USCON2)	
Entity Type	Regular Undiscounted	

Domestic Benefit/National Stage Information

****If no data is shown, no data has been corrected****

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121,365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing 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(a).

	Data of Record	Updated Data
Prior Application Status	pending	
Application Number	17577530	
Continuity Type	CON	
Prior Application Number	17026305	
Filing Date (YYYY-MM-DD)	2020-09-21	
Patent Number		
Issue Date (YYYY-MM-DD)		

	Data of Record	Updated Data
Prior Application Status		<u>patented</u>
Application Number		<u>17026305</u>
Continuity Type		<u>CON</u>
Prior Application Number		<u>16358467</u>
Filing Date (YYYY-MM-DD)		<u>2019-03-19</u>
Patent Number		<u>10819664</u>
Issue Date (YYYY-MM-DD)		<u>2020-10-27</u>

	Data of Record	Updated Data
Prior Application Status		<u>expired</u>
Application Number		<u>16358467</u>
Continuity Type		<u>CON</u>
Prior Application Number		<u>PCT/IL2018/051168</u>
Filing Date (YYYY-MM-DD)		<u>2018-11-04</u>
Patent Number		
Issue Date (YYYY-MM-DD)		

	Data of Record	Updated Data
Prior Application Status		<u>expired</u>
Application Number		<u>PCT/IL2018/051168</u>
Continuity Type		<u>PRO</u>
Prior Application Number		<u>62581714</u>
Filing Date (YYYY-MM-DD)		<u>2017-11-05</u>
Patent Number		
Issue Date (YYYY-MM-DD)		

Foreign Priority Information

****If no data is shown, no data has been corrected****

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX) the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

	Data of Record	Updated Data
Application Number		
Country		
Filing Date		
Access Code		

Applicant Information

****If no data is shown, no data has been corrected****

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.

	Data of Record	Updated Data
Applicant Type		
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		
Applicant is an Organization		
Name		
Organization Name		
Address 1		

Address 2		
City,State/Province,Postal Code		
Country		
Phone Number		
Fax Number		
Email Address		

Assignee Information including Non-Applicant Assignee Information

****If no data is shown, no data has been corrected****

Providing this information in the application data sheet does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded in the Office

	Data of Record	Updated Data
Order		
Applicant is an Organization		
Name		
Organization Name		

Mailing Address

Address 1		
Address 2		
City,State/Province,Postal Code		
Country		
Phone Number		
Fax Number		

Email Address		
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Signature

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b).

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

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

Signature	/Mark I. Koffsky/	Registration Number	41906
First Name	Mark	Last Name	Koffsky

Electronic Acknowledgement Receipt	
EFS ID:	44886539
Application Number:	17577530
International Application Number:	
Confirmation Number:	5885
Title of Invention:	Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot
First Named Inventor/Applicant Name:	Nir NAHUM
Customer Number:	106928
Filer:	MARK I KOFFSKY
Filer Authorized By:	
Attorney Docket Number:	1179.0236 (583-6.6USCON2)
Receipt Date:	01-FEB-2022
Filing Date:	18-JAN-2022
Time Stamp:	10:54:15
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet to update/ correct info	CorrectedADS.pdf	131008	no	6
			972b21b72a74c93d247eb25525ff2a923dd1c356		

Warnings:

Information:	
Total Files Size (in bytes):	131008
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.	



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO.	TOT CLAIMS	IND CLAIMS
17/577,530	01/18/2022	2192	1820	1179.0236 (583-6.6USCON2)	20	3

CONFIRMATION NO. 5885
CORRECTED FILING RECEIPT



106928
Koffsky Schwalb LLC
500 Seventh Avenue
8th Floor
New York, NY 10018

Date Mailed: 02/01/2022

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

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

Inventor(s)

Nir NAHUM, Tel Aviv, ISRAEL;
Shlomi SASSON, Givat Zeev, ISRAEL;

Applicant(s)

WalkMe LTD., Tel Aviv, ISRAEL;

Power of Attorney: The patent practitioners associated with Customer Number 106928

Domestic Priority data as claimed by applicant

This application is a CON of 17/026,305 09/21/2020

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

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

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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

If Required, Foreign Filing License Granted: 01/26/2022

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/577,530**

Projected Publication Date: 05/12/2022

Non-Publication Request: No

Early Publication Request: No
Title

Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot

Preliminary Class

713

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

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

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

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

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

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.



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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
17/577,530	01/18/2022	Nir NAHUM	1179.0236 (583-6.6USCON2)

CONFIRMATION NO. 5885

IMPROPER CFR REQUEST



106928
Koffsky Schwalb LLC
500 Seventh Avenue
8th Floor
New York, NY 10018

Date Mailed: 02/01/2022

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Power of Attorney, Claims, Fees, System Limitations, and Miscellaneous

In response to your request for a corrected Filing Receipt, the Office is unable to comply with your request because:

- The ADS submitted on 01/28/2022 was not properly marked up to show the desired changes. For information being changed relative to the information already of record, additions must be shown with underlining, and deletions must be shown with strike-through or brackets. See 37 CFR 1.76(c)(2)

In order to make changes to the information of record, an ADS must be properly signed and properly marked up relative to the current information of record.

Proper signature: The ADS must be signed with a handwritten signature or proper S-signature by:

- A patent practitioner, with the practitioner's registration number accompanying the signature (e.g., immediately below or adjacent to the signature), or
- The applicant, if the applicant is an individual other than the inventor(s) and no power of attorney has been appointed, or
- All of the inventors, if no other applicant has been established and no power of attorney has been appointed.

A proper S-signature consists of only letters and/or Arabic numerals, with appropriate spaces and commas, periods, apostrophes, or hyphens for punctuation contained between a first single forward slash mark before, and a second single forward slash mark after, the S-signature.

Proper markings: The ADS must identify the changes being made with underlining for insertions and strike-through or brackets for text removed. No other markings or indications are acceptable. Where an ADS providing corrected or updated information does not contain all of the sections of the ADS, the entire section in which changes are being made must be included in the ADS. Information of record can generally be found on the latest filing receipt.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/ttran/



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www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
17/577,530	01/18/2022	2192	1820	1179.0236 (583-6.6USCON2)	20	3

CONFIRMATION NO. 5885

CORRECTED FILING RECEIPT



0000000131580410

106928
Koffsky Schwalb LLC
500 Seventh Avenue
8th Floor
New York, NY 10018

Date Mailed: 02/03/2022

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

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Inventor(s)

Nir NAHUM, Tel Aviv, ISRAEL;
Shlomi SASSON, Givat Zeev, ISRAEL;

Applicant(s)

WalkMe LTD., Tel Aviv, ISRAEL;

Power of Attorney: The patent practitioners associated with Customer Number 106928

Domestic Priority data as claimed by applicant

This application is a CON of 17/026,305 09/21/2020 PAT 11258732
which is a CON of 16/358,467 03/19/2019 PAT 10819664
which is a CON of PCT/IL2018/051168 11/04/2018
which claims benefit of 62/581,714 11/05/2017

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

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

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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

If Required, Foreign Filing License Granted: 01/26/2022

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/577,530**

Projected Publication Date: 05/12/2022

Non-Publication Request: No

Early Publication Request: No
Title

Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot

Preliminary Class

713

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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page 2 of 4

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).

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

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

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

NOT GRANTED

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

SelectUSA

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

technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.



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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
17/577,530	01/18/2022	Nir NAHUM	1179.0236 (583-6.6USCON2)

CONFIRMATION NO. 5885

106928
Koffsky Schwalb LLC
500 Seventh Avenue
8th Floor
New York, NY 10018

PUBLICATION NOTICE



Title:Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot

Publication No.US-2022-0150251-A1

Publication Date:05/12/2022

NOTICE OF PUBLICATION OF APPLICATION

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

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

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

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 <https://portal.uspto.gov/pair/PublicPair>. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

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



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/577,530	01/18/2022	Nir NAHUM	1179.0236 (583-6.6USCON2)	5885
106928	7590	11/10/2022	EXAMINER	
Koffsky Schwalb LLC 500 Seventh Avenue 8th Floor New York, NY 10018			SHIBEROU, MAHELET	
			ART UNIT	PAPER NUMBER
			2171	
			NOTIFICATION DATE	DELIVERY MODE
			11/10/2022	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

eofficeaction@appcoll.com
mikuspto@gmail.com
patent@koffskyschwalb.com

DETAILED ACTION

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.
2. This Office Action is in responsive tot the Application filed on 1/18/2022. Claims 1-20 are pending in the case.

Double Patenting

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

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

result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP § 2146 *et seq.* for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

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

3. Claims 1, 9, and 16 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1, 19, and 29 of U.S. Patent No. 10819664. Although the claims at issue are not identical, they are not patentably distinct from each other because claims 1, 19, and 29 of U.S. Patent No. 10819664 contain every element of claims claim 1, 9, and 16 of the instant application and thus anticipate the claim of the instant application

Instant Application 17/577530	US 10819664 B2
Claims 1,9,16, A chat-bot program product, wherein the chat-bot program product comprises non-transitory	Claims 1, 19, 29, A method comprising:

computer readable medium retaining program instructions, which program instructions when read by a processor, cause the processor to: <u>receive a user instruction from a user using a natural language interface;</u> determine to implement an automation process on a web-based target system in response to the user instruction; <u>collect information to be used as part of the automation process; and</u> <u>implement the automation process by interacting with a Graphical User Interface (GUI) of the web-based target system and simulating user input to the GUI of the web-based target system,</u>	<u>using a natural language interface,</u> <u>receiving input from a user as part of a natural language conversation between the natural language interface and the user, wherein the natural language conversation comprises a first natural language input from the user, a natural language feedback on the first natural language input from the natural language interface, and a second natural language input from the user in response to the natural language feedback:</u> <u>determining, based on the first and second natural language inputs from the user, an automation process configured to perform an automation of a sequence of interactions with a displayed user</u>
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wherein the automation process is performed with respect to third-party web-based target system and without relying on an Application Programming Interface (API) exposed by the web-based target system, wherein the implementation of the automatic process comprises: <u>automatically and without user input, filling in a text input field in the GUI of the web-based target system; and</u> <u>automatically and without user input, interacting with a widget in the GUI to cause the web-based target system to perform a predefined functionality.</u>	<u>interface of a computer program and to simulate user interactions with the displayed user interface of the computer program, wherein the user interface of the computer program is configured to be displayed on a screen, wherein each interaction of the sequence of interactions comprises an action selected from a group consisting of inputting data to the displayed user interface and executing a functionality of the displayed user interface; and</u> <u>executing the automation process, wherein said executing comprises utilizing the displayed user interface of the computer program to perform the sequence of interactions.</u>
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Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MAHELET SHIBEROU whose telephone number is

(571)270-7493. The examiner can normally be reached Monday-Friday 9:00 AM-5:00 PM Eastern Time.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Ell can be reached on 571-270-3264. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: <https://patentcenter.uspto.gov>. Visit <https://www.uspto.gov/patents/apply/patent-center> for more information about Patent Center and <https://www.uspto.gov/patents/docx> for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MAHELET SHIBEROU/
Primary Examiner, Art Unit 2171

<i>Index of Claims</i> 	Application/Control No. 17/577,530	Applicant(s)/Patent Under Reexamination NAHUM et al.
	Examiner MAHELET SHIBEROU	Art Unit 2171

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

CLAIMS									
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47									
CLAIM		DATE							
Final	Original	11/05/2022							
	1	✓							
	2	✓							
	3	✓							
	4	✓							
	5	✓							
	6	✓							
	7	✓							
	8	✓							
	9	✓							
	10	✓							
	11	✓							
	12	✓							
	13	✓							
	14	✓							
	15	✓							
	16	✓							
	17	✓							
	18	✓							
	19	✓							
	20	✓							

<i>Search Notes</i> 	Application/Control No. 17/577,530	Applicant(s)/Patent Under Reexamination NAHUM et al.
	Examiner MAHELET SHIBEROU	Art Unit 2171

CPC - Searched*		
Symbol	Date	Examiner
H04L51/02 G06F40/134 G06F3/0482 G06F3/0483 G06F3/16 G06F3/167 G06F9/542 G06F16/284 G06F16/248 G06F3/04895 G06F17/279	11/05/2022	MS

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

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

Search Notes		
Search Notes	Date	Examiner
Inventor Search	11/05/2022	MS
PE2E Search	11/05/2022	MS
Text Search	11/05/2022	MS

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

/MAHELET SHIBEROU/ Primary Examiner, Art Unit 2171	
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L354	23	L352 and (H04L51/02 OR G06F40/134 OR G06F3/0482 OR G06F3/0483 OR G06F3/16 OR G06F3/167 OR G06F9/542 OR G06F16/284 OR G06F16/248 OR G06F3/04895 OR G06F17/279).CPC.	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/21 08:45 AM
L355	136	L352 and @ad<"20171105"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/10/21 08:56 AM
L356	652	(conversation or chat\$3 or dialog) with (chatbot or chat\$bot or bot or (digital or intelligent) near assist\$4) with (interaction or input\$3) with (GUI or user adj interface or form or input near2 field or content or document)	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/10/21 09:03 AM
L357	359	L356 and (H04L51/02 OR G06F40/134 OR G06F3/0482 OR G06F3/0483 OR G06F3/16 OR G06F3/167 OR G06F9/542 OR G06F16/284 OR G06F16/248 OR G06F3/04895 OR G06F17/279).CPC.	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/21 09:03 AM
L358	93	L357 and @ad<"20171105"	(US-PGPUB; USPAT)	OR	OFF	OFF	2021/10/21 09:04 AM
L359	16	((("NAHUM") near3 ("Nir")) OR (("SASSON") near3 ("Shlomi"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2021/10/21 09:04 AM
L360	1	16/358467.app.	(USPAT)	OR	ON	ON	2022/11/05 09:21 AM
L361	1	17/577530.app.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:25 AM
L362	2	16/358467.app.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L363	4	("20160094492" "20160300570" "20160352658" "20170289071").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L364	15	("20100169792" "20100251128" "20160171119" "20150339942" "20020194164" "8024660" "20110185288" "20140310596" "20120317481" "	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM

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L366	2	("20110213642 "20170310613").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
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L368	98	((chat adj bot) or (virtual adj agent) or (virtual adj assistance)) same (web or webpage or user adj interface) near3 (form or input adj field or data adj entry)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L369	12	("20100082620 "20160358234 "20140081925 "20140108308 "20150193693 "9229800 "20160217119 "7685144 "20170032029 "20110029862 "20160217124 "20170091320").PN.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
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L372	17	"20060129379".pn. "20120078611".pn. "8594997".pn. "20050210061".pn. "20130103384".pn. "20190087398".pn. "7613719".pn. "20070174350".pn. "9015030".pn. "20020063734".pn. "20180137178".pn. "20110214067".pn. "20090077494".pn. "20060020886".pn. "20120110459".pn. "9058105".pn. "20160260433".pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L373	1	"9015030".pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
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L377	27	(Nahum near3 Nir).inv.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L378	6	(Sasson near3 Shlomi).inv.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L379	1127	(chat near3 bot) with (user adj interface or	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM

L380	248	application) (chat near3 bot) with (user adj interface or application) with (input or command)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L381	121	((chat adj bot) or (virtual adj agent) or (virtual adj assistance)) same (web or webpage or user adj interface or application) near3 (form or input adj field or data adj entry or table)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L382	199	L46 and (G06F3/0482 OR G06F16/284 OR G06F16/248 OR G06F3/04895 OR G06F3/167).CPC.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L383	34	("6539080" "6604075" "20010056479" "20030012344" "7146323" "7222074" "20030035519" "6570974" "20050135571" "6807529" "6895084" "7275086" "6624803" "6633846" "20030078779" "7437357" "20030078987" "6925288" "7177862" "20020161647" "20050182770" "6311182" "20020164000" "6567745" "6587786" "6587822" "6615177" "20040205614" "6401094" "6996609" "20020128821" "5915001" "7143042" "7487440").PN.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L384	1127	(chat near3 bot) with (user adj interface or application)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L385	208	L52 and (G06F3/0482 OR G06F3/0483 OR G06F3/16 OR G06F3/167 OR G06F9/542 OR G06F16/284 OR G06F16/248 OR G06F3/04895 OR G06F17/279).CPC.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L386	2	"20180137178".pn. "20050210061".pn.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L387	104	(non-human or non near2 human or robot) near3 (chat) with (website or webpage or	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM

L388	16	service) ("7379087" "200701861 72" "7861176" "200100 32244" "8335825" "201 20072440" "7305350" " 8271509" "2013033253 7" "20120036245" "201 20036245" "7263526" " 20030037110" "200902 34926" "8335495" "200 10054064" "201000768 37" "20010032244" "20 090234926" "7305350" " "8271509" "8335495").P N.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L389	0	(non-human or non near2 human or robot or chat adj bot) near3 (help or assistance) near3 (suggest\$3 or recommend\$3 or feedback) near7 (website or webpage or application or program or form or user adj interface)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L390	69	(non-human or non near2 human or robot or chat adj bot) near3 (help or assistance) same (suggest\$3 or recommend\$3 or feedback) same (website or webpage or application or program or form or user adj interface)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L391	66	(chat adjs bot) near3 (list\$3 or present\$3 or display\$3) same (help or assistance) same (suggest\$3 or recommend\$3 or feedback) same (website or webpage or application or program or form or user adj interface)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L392	6	"20180144126".pn. "20180189408".pn. "20070168480".pn. "20170237692".pn. "20180189795".pn. "20090281966".pn.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L393	175	(chat adj bot or bot or robot) with (complet\$3	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM

L394	2100	or finish\$3 or help\$3 or assist\$4) with (task or job or interaction) near3 (application or web or website or webpage or program)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L395	2	(chat adj bot or bot or robot) near4 (convers\$4 or chat\$3 or messag\$3) near3 user	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L396	76	("20150063556" "20170324866").PN.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L397	212	((chat adj bot or bot or robot) near4 (convers\$4 or chat\$3 or messag\$3) near3 user) with (task or (fill\$3 or complet\$3) near2 (form or field))	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L398	31	((chat adj bot or bot or robot) near4 (convers\$4 or chat\$3 or messag\$3) near3 user) near3 service	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L399	1	((chat adj bot or bot or robot) near4 (convers\$4 or chat\$3 or messag\$3) near3 user) near3 (interact\$3 near3 (application or user adj interface))	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
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L401	3	(application or user adj interface or program or website or webpage or web) near5 ((chat adj bot or bot or robot) near4 (convers\$4 or chat\$3 or messag\$3) near3 user)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L402	3	"20180005216".pn. "20190207875".pn. "20180005215".pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L403	2	"20190287537".pn. "20190066694".pn. "20180102989".pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L404	1	16/358467.app.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L405	11	"20160283463".pn. "20040083092".pn. "20140278343".pn. "10419489".pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM

L406	13	"20170293610".pn. "20180081950".pn. "20180212904".pn. "9201865".pn. "20090229264".pn. "8346563".pn. "20140019116".pn. ("9130900" "9201865" "20090313055" "20120150922" "20100125456" "20130110519" "6952665" "20130198360" "20110035452" "20120271640" "7103553" "20090248587" "10042836").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L407	9	"20140006082".pn. "20180039478".pn. "20190310824".pn. "20100318398".pn. "20140012574".pn. "20180039477".pn. "20180144308".pn. "20140343950".pn."20140115456".pn.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L408	8	("20120209586" "20120265528" "20100077085" "20120016678" "20050203757" "20130019320" "6636831" "7921156" "20050203757" "7921156").PN.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L409	1127	(chat near3 bot) with (user adj interface or application)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L410	208	L93 and (G06F3/0482 OR G06F3/0483 OR G06F3/16 OR G06F3/167 OR G06F9/542 OR G06F16/284 OR G06F16/248 OR G06F3/04895 OR G06F17/279).CPC.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L411	208	L94 and (G06F3/0482 OR G06F3/0483 OR G06F3/16 OR G06F3/167 OR G06F9/542 OR G06F16/284 OR G06F16/248 OR G06F3/04895 OR G06F17/279).CPC.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L412	71	(user adj interface or GUI) with (chat near bot) with (input\$4 or	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM

L413	4	click\$4 or execut\$3) (chat near bot) with (interact\$3 near3 display\$3 near4 (application or user adj interface or GUI))	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L414	419	(chat near bot) same (interact\$3 or input\$3) with (application or user adj interface or GUI)	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L415	154	(chat near bot) same (interact\$3 or input\$3 or click\$3 or enter\$3 or navigat\$3 or fill\$3) near3 (data or information or region or page or field) same (application or form or page or user adj interface or GUI)	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L416	0	(natural near language) with (assist\$4 or help\$3 or perform\$3) with (interact\$3 or input\$3 or click\$3 or enter\$3 or navigat\$3 or fill\$3) near3 (data or information or region or page or field) with (application or form or page or user adj interface or GUI)	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L417	26	(chat near bot) with (assist\$4 or help\$3 or perform\$3) with (interact\$3 or input\$3 or click\$3 or enter\$3 or navigat\$3 or fill\$3) near3 (data or information or region or page or field) with (application or form or page or user adj interface or GUI)	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L418	1291	(chat near bot) with (interact\$3 or input\$3 or click\$3 or enter\$3 or navigat\$3 or fill\$3)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L419	176	L102 and G06f3/048\$.CPC.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L420	445	(chat near bot) with (interact\$3 or input\$3) with (application or user adj interface or GUI)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L421	27	(Nahum near3 Nir).inv.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05

L422	6	(Sasson near3 Shlomi).inv.	(US-PGPUB; USPAT)	OR	OFF	OFF	09:40 AM 2022/11/05
L423	2	16/358467.app.	(US-PGPUB; USPAT)	OR	OFF	OFF	09:40 AM 2022/11/05
L424	13	("20160171119" "20150339942" "20020194164" "8024660" "20110185288" "20140310596" "20120317481" "20140068498" "8984441" "20120022951" "20150310488" "20070300174" "20080313149").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	09:40 AM 2022/11/05
L425	10638	(voice or vocal or speech or speaker or natural adj language or chat near bot) near6 (interact\$4 or manipul\$3 or navigat\$3 or action) near6 (document or application)	(US-PGPUB; USPAT)	OR	OFF	OFF	09:40 AM 2022/11/05
L426	9102	(interact\$4 or manipul\$3 or navigat\$3 or action) near6 (document or application) near4 (voice or vocal or speech or speaker or natural adj language or chat near bot)	(US-PGPUB; USPAT)	OR	OFF	OFF	09:40 AM 2022/11/05
L427	6729	L111 and @ad<"20171105"	(US-PGPUB; USPAT)	OR	OFF	OFF	09:40 AM 2022/11/05
L428	669	L114 and (G06F3/0482, G06F3/16, G06F40/10, G06F3/16, G06F3/167).CPC.	(US-PGPUB; USPAT)	OR	OFF	OFF	09:40 AM 2022/11/05
L429	107	(interact\$4 or manipul\$3 or navigat\$3 or action) near6 (document or application) near4 ((chat adj bot) or (virtual adj agent) or (virtual adj assistance))	(US-PGPUB; USPAT)	OR	OFF	OFF	09:40 AM 2022/11/05
L430	130	(interact\$4 or manipul\$3 or navigat\$3 or action) near6 (document or application) near4 ((chat adj bot) or (virtual adj agent) or (virtual adj assistance))	(US-PGPUB; USPAT)	OR	ON	ON	09:40 AM 2022/11/05
L431	5	("20100138239" "20120	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05

L432	98	084096 "20140013199 "20140324477 "6826 727").PN. (natural near3 language or chat near bot) near4 (interact\$4 or manipulat\$3 or navigat\$3 or fill\$3 or complet\$3) near4 (document)	(US-PGPUB; USPAT)	OR	ON	ON	09:40 AM 2022/11/05 09:40 AM
L433	2202	(natural near language or (chat adj bot) or (virtual adj agent) or (virtual adj assistance) or smart adj speaker or voice or vocal or speech) with (smart near4 (document or application))	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L434	536	(smart near4 (document or application)) with (voice or vocal or speech) with (input or command)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L435	63	(smart near4 (document or application)) with (voice or vocal or speech) with (input or command) with (navigat\$4 or manipulat\$3 or fill\$3 or hover\$3 or click\$3 or select\$4 or scroll\$3 or flip\$3 or highlight\$3)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L436	7	("20120265528 "20100 077085 "20120016678 "20050203757 "2013 0019320 "6636831 "7 921156 "20050203757 "7921156").PN.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L437	13	("20010032244 "83358 25 "20120072440 "73 05350 "8271509 "201 30332537 "201200362 45 "20120036245 "72 63526 "20030037110" "20090234926 "83354 95 "20010054064 "20 100076837 "20010032 244 "20090234926 "7 305350 "8271509 "83 35495").PN.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L438	7	("20120265528 "20100 077085 "20120016678 "20050203757 "2013 0019320 "6636831 "7	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM

L439	10	921156 "20050203757 "7921156").PN. ("20120150922 "20100 125456 "20130110519 "6952665 "20130198 360 "20110035452 "2 0120271640 "7103553 "20090248587 "1004 2836").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L440	1	"20140249830".pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L441	1	"20180137178".pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L442	3	convers\$3 with chat near3 bot with (webpage or web near page)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L443	57	(conversation or natural near language) same chat near3 bot same (webpage or web near page)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L444	16	("20090007011 "70279 75 "9369410 "201501 42704 "7027975 "200 90070113 "8346563 "2 0150142704 "834656 3 "8001469 "2010000 5081 "9472185 "2015 0014270 "2016034337 8 "20170116982 "871 9200 "9043407 "2010 0005081 "2014034395 0 "9472185 "2014003 4395").PN.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L445	50	("20020133347" "20030046689" "20030182391" "20040162724" "20040210661" "20050015350" "20060069546" "20060150119" "20060155765" "20070203693" "20140297568" "6570555" "8001250" "8311513" "8630961" "8719200").PN. OR ("9369410").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/11/05 09:40 AM
L446	6	"20180239837".pn. "8949377".pn. "20080089490".pn. "9042540".pn. "7962578".pn.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/11/05 09:40 AM

L447	3	"20190103111".pn. (chat\$bot or chat near2 bot or conversational near2 agent) with (communicat\$3 or convers\$4) with (natural\$language or natural near2 language) with (help\$3 or assist\$3 or process\$3 or execut\$3) with (navigat\$3 or fill\$3 near out or hover\$3 or click\$3 or redirect\$3) with (page or webpage or GUI or user adj interface or web)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/11/05 09:40 AM
L448	231	(chat\$bot or chat near2 bot or conversational near2 agent) with (communicat\$3 or convers\$4) with (natural\$language or natural near2 language)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/11/05 09:40 AM
L449	1	"20170366479".pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/11/05 09:40 AM
L450	2	16/358467.app.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/11/05 09:40 AM
L451	29	("20120260263" "83269 28" "8825735" "866024 4" "20070172063" "200 80288467" "200900554 85" "7437292" "775255 4" "8204984" "2003018 2391" "8250192" "2008 0025328" "7747785" "7 949869" "8027839" "20 070043878" "20100122 082" "8769028" "20170 324866" "7287057" "78 70199" "9043407" "201 70324868" "201603220 50" "20030220972" "20 090234638" "8352873" "8787553").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/11/05 09:40 AM
L452	17	("6158011" "7043230" "20030163739" "20050010811" "20030217105" "5311596" "20030093480" "6874090" "6496932" "20020004831" "6894999" "6574628" "6401080" "20050193203" "20030163739" "20030093480" "20040073795" "6580718" "6477578").P	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/11/05 09:40 AM

L453	152	N. bank near4 bot	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/11/05 09:40 AM
L454	19	("20170324866" "20190 215282" "20190370629 " "20080307038" "2016 0300570" "2020009963 3" "20160100130" "201 60300570" "201703248 67" "20010048449" "20 020198009" "20180025 726" "9794199" "20160 308799" "9794199" "20 170230312" "20160360 039" "20180090137" "2 0170230312" "2017018 0284" "20170358296" "2 0160352656").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/11/05 09:40 AM
L455	9	((website or webpage or web) near3 bank) near4 bot	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/11/05 09:40 AM
L456	9	(website or webpage or web) near4 automation near4 bot	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/11/05 09:40 AM
L457	230	(website or webpage or web) near4 (chat or conversation) near4 bot	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/11/05 09:40 AM
L458	9	("20080294619" "20170 116982" "20170230312 " "20170310613" "6418 440" "8630961" "89302 96" "9369410" "937285 8").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/11/05 09:40 AM
L459	17	("20160110071" "20190 236137" "20120296638 " "20190188326" "2012 0232885" "2018003969 5" "8566102" "2019014 7029" "20170116982" "2 0180246877" "201603 42702" "20170116982" "2 0120245944" "20180 365567" "20190228099 " "7783642" "9548050" "2 0170147554").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/11/05 09:40 AM
L460	21	("20030182391" "20050102065" "20050125370" "20070043878" "20070168480" "20090281966" "20110078105" "20160352658" "20170048170" "20170357638"	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/11/05 09:40 AM

L461	10	"20180039618" "20180083894" "20180083898" "20180083901" "20180102989" "20180107461" "20180109526" "20180210874" "6363301" "6754647" "9959868").PN. OR ("10333868").URPN. (chat\$bot or chat near2 bot or conversational near2 agent) with (communicat\$3 or convers\$4) with (natural\$language or natural near2 language) with (navigat\$3 or interaction or fill\$3 near out or hover\$3 or click\$3 or redirect\$3 or highlight\$3 or focus\$3) with (page or webpage or GUI or user adj interface or web or form)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/11/05 09:40 AM
L462	10	("10218649" "20130275 164" "9031586" "10068 174" "20150348551" "9 031216" "10116596" "2 0090006391" "2013029 7317" "20030182391"). PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L463	24	("20030097301" "20030182391" "20070016585" "20070174244" "20070219901" "20080263458" "20090006333" "20090254417" "20090276400" "20090313115" "20100114684" "20100180217" "20100274796" "20110151899" "20130167044" "20140074951" "20140136506" "20140255895" "7603413" "9031216").PN. OR ("10218649").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/11/05 09:40 AM
L464	21	(chatbot near7 (hover\$3 or click\$3 or	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/11/05 09:40 AM

L465	7	manipulat\$3)) near4 (user adj interface or object or UI or application or webpage or web) ("10542077" 20080120 380" 20090077212" 2 0160226829" 2016023 2339" 20170078448" 20170329466").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/11/05 09:40 AM
L466	150	("20010044791" 20020 072951" 20020082892 " 20020129352" 2002 0140731" 2002014399 7" 20020162090" 200 20165742" 200300049 71" 20030018705" 20 030018830" 20030066 031" 20030066032" 2 0030069936" 2003007 0000" 20030070004" 20030070005" 200300 74418" 20030120675" "20030151633" 20030 159136" 20030187921 " 20030189600" 2003 0204427" 2003020619 2" 20030225730" 200 40001092" 200400104 89" 20040015981" 20 040027388" 20040128 001" 20040186860" 2 0040193510" 2004019 9489" 20040199536" 20040199543" 200402 49854" 20040260534" "20040260659" 20040 268299" 20050050555 " 20050091098" 2006 0021019" 2008024997 2" 20090063414" 200 90100342" 200901777 44" 20110247051" 20 120042218" 20120218 958" 20120233137" 2 0130212497" 2013021 8948" 20130218949" 20130218966" 201302 47216" 5577188" 560 8872" 5649104" 5715 450" 5761419" 58190 38" 5821937" 583161 0" 5873096" 5918159" 5963953" 6092083" 6161149" 6169534" 6 178425" 6189011" 62 16135" 6233617" 626	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/11/05 09:40 AM

L467	6988	6669" "6295530" "6324 568" "6324693" "63361 37" "6367077" "639360 5" "6405220" "6434550" "6446089" "6535909" "6 6549908" "6553563" "6 560461" "6574635" "65 77726" "6601087" "660 4117" "6604128" "6609 150" "6621834" "66540 32" "6665648" "666565 5" "6684438" "6711565" "6724399" "6728702" "6 6728960" "6732095" "6 732100" "6732111" "67 54681" "6763351" "676 3501" "6768904" "6772 229" "6782383" "68043 30" "6826565" "682658 2" "6826745" "6829655" "6842748" "6850895" "6 6850949" "7062502" "7 069231" "7181758" "72 89976" "7340411" "735 6482" "7401094" "7412 455" "7508789" "76206 55" "7698160" "773047 8" "7779475" "8014943" "8015495" "8032297" "8 8082301" "8095413" "8 095594" "8209308" "82 75836" "8457545" "848 4111" "8490025" "8504 945" "8510045" "85106 64" "8566301" "864610 3" "D454139").PN. (chatbot or chat-bot or chat near bot or robot) near7 (interact\$3 or hover\$3 or click\$3 or manipulat\$3 or typing or entering or fill or filling) near4 (user adj interface or object or UI or application or webpage or website or web or form or document or electronic adj2 form)	(US-PGPUB; USPAT; EPO; JPO; IBM_TDB)	OR	ON	ON	2022/11/05 09:40 AM
L468	4854	(chatbot or chat-bot or chat near bot or robot) near3 (interact\$3 or hover\$3 or click\$3 or manipulat\$3 or typing or entering or fill or filling) near4 (user adj interface or object or UI	(US-PGPUB; USPAT; EPO; JPO; IBM_TDB)	OR	ON	ON	2022/11/05 09:40 AM

		or application or webpage or website or web or form or document or electronic adj2 form)					
L469	220	L169 and G06F3/048\$.CPC.	(US-PGPUB; USPAT; EPO; JPO; IBM_TDB)	OR	ON	ON	2022/11/05 09:40 AM
L470	5	("20190347142" "20190132264" "20190228068" "20190132264" "20190392285" "20190171758").PN.	(US-PGPUB; USPAT; EPO; JPO; IBM_TDB)	OR	ON	ON	2022/11/05 09:40 AM
L471	1544	(chatbot or chat-bot or chat near bot or robot) near7 (interact\$3 or hover\$3 or click\$3) near4 (element or UI or object)	(US-PGPUB; USPAT; EPO; JPO; IBM_TDB)	OR	ON	ON	2022/11/05 09:40 AM
L472	156	(chatbot or chat-bot or chat near bot) near7 (interact\$3 or hover\$3 or click\$3) near4 (element or UI or object or user adj interface)	(US-PGPUB; USPAT; EPO; JPO; IBM_TDB)	OR	ON	ON	2022/11/05 09:40 AM
L473	39	(chatbot or chat-bot or chat near bot) with (fill\$3 or highlight\$3) with (form or field or box) with (application or webpage or user adj interface or form or PDF)	(US-PGPUB; USPAT; EPO; JPO; IBM_TDB)	OR	ON	ON	2022/11/05 09:40 AM
L474	19	("20120041903" "20150066479" "20180097749" "20150178371" "20170116173" "20130317826" "20050022106" "20140122619" "20160308795" "20180314689" "20160042359" "20130268260" "20180240135" "20140279050" "20160099843" "20170116173" "20180025726" "20170344532" "20130275875" "20080275694").PN.	(US-PGPUB; USPAT; EPO; JPO; IBM_TDB)	OR	ON	ON	2022/11/05 09:40 AM
L475	7	"10530718".pn. "20190147029".pn. "10121186".pn. "20180217970".pn. "20170236196".pn.	(US-PGPUB; USPAT; EPO; JPO; IBM_TDB)	OR	ON	ON	2022/11/05 09:40 AM
L476	10	("20130262574" "20180095940" "20180121394" "20190034395" "8938669" "9348803"	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/11/05 09:40 AM

L477	143	"9456012").PN. OR ("10530718").URPN. (chatbot or chat-bot or chat near bot) same (fill\$3 or highlight\$3 or flag\$3) same (form or field or box or element or object) same (application or webpage or user adj interface or form or PDF)	(US-PGPUB; USPAT; EPO; JPO; IBM_TDB)	OR	ON	ON	2022/11/05 09:40 AM
L478	2	"20180143758".PN. "20040226002".PN.	(US-PGPUB; USPAT; EPO; JPO; IBM_TDB)	OR	ON	ON	2022/11/05 09:40 AM
L479	7	("20180143758" "20040 226002" "20140195621 " "20180239837" "2014 0019884" "2008000526 9" "20190130073").PN.	(US-PGPUB; USPAT; EPO; JPO; IBM_TDB)	OR	ON	ON	2022/11/05 09:40 AM
L480	8	"20120221331".pn. "20190147029".pn. "8718242".pn. "20190332358".pn. "10217462".pn. "20200034399".pn. "20200226663".pn. "20090187410".pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L481	2	16/358467.app.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L482	1	"8462917".pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L483	79	("20010056479" "20020078140" "20020128821" "20020164000" "20030012183" "20030012344" "20030078779" "20030078987" "20030093428" "20030200094" "20040128136" "20040205614" "20050076089" "20050131625" "20050135571" "20050182770" "20070226198" "20090292529" "20100098224" "20120221331" "5913193" "5915001" "6173263" "6233544" "6266637" "6311182" "6345250" "6366883" "6401094" "6456699" "6466654" "6505158"	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/11/05 09:40 AM

		"6539080" "6567745" "6570974" "6587786" "6587822" "6604075" "6604090" "6615177" "6624803" "6633846" "6636504" "6662340" "6807529" "6832196" "6859776" "6859910" "6895084" "6925288" "6934684" "6944592" "6983307" "6996609" "7038807" "7099453" "7143042" "7146323" "7177862" "7197460" "7200677" "7222074" "7275086" "7366766" "7373300" "7434162" "7437357" "7487440" "7577593" "7580842" "7609829" "7660400" "7869998" "8060369" "8065151" "8090583" "8175230").PN. OR ("8462917").URPN.					
L484	8	(webpage near5 (dialog or conversation)) near6 (fill\$3 with field)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L485	72	(webpage near5 (dialog or conversation)) near6 (chatbot or bot or agent)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L486	9	("20130226925" "20150026155" "20150364057" "20150378975" "20160350336").PN. OR ("10558693").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/11/05 09:40 AM
L487	16	(webpage near5 (dialog or conversation)) same (fill\$3 with field)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L488	595	(webpage or document or website or browser or application) same (dialog or conversation or chatbot or chat\$bot or chat near bot) same (fill\$3 with field)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L489	598	(webpage or document or website or browser or application) same (dialog or conversation or chatbot or chat\$bot or chat near bot) same (fill\$3 with field)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L490	54	L191 and G06F3/048\$.CPC.	(US-PGPUB; USPAT; EPO; JPO; IBM_TDB)	OR	ON	ON	2022/11/05 09:40 AM

L491	37	L191 and G06F40/174.cpc.	(US-PGPUB; USPAT; EPO; JPO; IBM_TDB)	OR	ON	ON	2022/11/05 09:40 AM
L492	39373	(webpage or document or website or browser or application) near7 (conversation or chatbot or chat\$bot or chat near bot or natural adj language)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L493	37	L193 and G06F40/174.cpc.	(US-PGPUB; USPAT; EPO; JPO; IBM_TDB)	OR	ON	ON	2022/11/05 09:40 AM
L494	55	(chatbot or chat\$bot or chat near bot or natural adj language) near4 (fill\$4 near3 (form or field))	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L495	104	(chatbot or chat\$bot or chat near bot or virtual adj agent or non\$humand adj agent) same (fill\$4 near4 (form or field))	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L496	20	("20160110071" "20190188326" "20180039695" "20190147029" "20120245944" "20180365567" "7783642" "20160342702" "20170116982" "20190228099" "20130246435" "20120232885" "20170147554" "20190236137" "8566102" "20180246877" "20080114800" "9548050" "20120296638" "20120150838").PN.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L497	2	16/358467.app.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L498	27	(Nahum near3 Nir).inv.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L499	6	(Sasson near3 Shlomi).inv.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L500	14	("20100251128" "20160171119" "20150339942" "20020194164" "8024660" "20110185288" "20140310596" "20120317481" "20140068498" "8984441" "20120022951" "20150310488" "20070300174" "20080313149").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L501	2200	(webpage or document or website or browser or application) near5	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM

L502	29	(chatbot or chat\$bot or chat near bot or virtual adj assistance) (webpage or document or website or browser or application) near5 (chatbot or chat\$bot or chat near bot or virtual adj assistance) near5 (convers\$4 or messag43 or talk43 or help\$3) near5 (action or activit\$3 or task or interaction)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L503	8	("20080010259" "20120016678" "20120303273" "20140331176" "20150198452" "20170103088" "20190003849").PN. OR ("10749823").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/11/05 09:40 AM
L504	280	(webpage or document or website or browser or application) same (chatbot or chat\$bot or chat near bot or virtual adj assistance) same (convers\$4 or messag43 or talk43 or help\$3) same (action or activit\$3 or task or interaction)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L505	53	L208 and @ad<"20171105"	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L506	40	("7295664" "6466654" "20040128136" "20070226198" "7366766" "7373300" "6539080" "6604075" "20010056479" "20030012344" "7146323" "7222074" "20030035519" "6570974" "20050135571" "6807529" "6895084" "7275086" "6624803" "6633846" "20030078779" "7437357" "20030078987" "6925288" "7177862" "20020161647" "20050182770" "6311182" "20020164000" "6567745" "6587786" "6587822" "6615177" "20040205614" "6401094" "6996609" "20020128	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM

L507	104	821" "5915001" "7143042" "7487440").PN. (chatbot or chat\$bot or chat near bot or virtual adj agent or (non\$human or robotic) adj agent) same (fill\$4 near4 (form or field))	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L508	318	L205 and (G06F3/0482 OR G06F3/0483 OR G06F3/16 OR G06F3/167 OR G06F9/542 OR G06F16/284 OR G06F16/248 OR G06F3/04895 OR G06F17/279).CPC.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L509	28	L205 and G06F40/174.cpc.	(US-PGPUB; USPAT; EPO; JPO; IBM_TDB)	OR	ON	ON	2022/11/05 09:40 AM
L510	6	("20060112123" "20130110803" "20130110810" "7613719" "8145990" "8935277").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L511	79	(conversation or chata\$3 or communication or messag\$3) with (chat adj bot or chat\$bot or chat near bot or virtual adj agent or virtual adj assistance) with (web or webpage or website or user adj interface) with (form or input adj field or data adj entry)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L512	208	(conversation or chat\$3 or communicat\$4 or messag\$3) with (chat adj bot or chat\$bot or chat near bot or virtual adj agent or virtual adj assistance) with (web or webpage or website or user adj interface) with (form or input adj field or data adj entry)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L513	50	(conversation or chat\$3 or communicat\$4 or messag\$3) with (chat adj bot or chat\$bot or chat near bot or virtual adj agent or virtual adj assistance) with (web or webpage or website or user adj interface) with ((fill\$3 or complet\$3 or	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM

L514	1	input\$2) near3 (form or input adj field) or data adj entry) "9922008".pn.	(USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L515	17	("6158011" "7043230" "20030163739" "20050010811" "20030217105" "5311596" "20030093480" "6874090" "6496932" "20020004831" "6894999" "6574628" "6401080" "20050193203" "20030163739" "20030093480" "20040073795" "6580718" "6477578").P N.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L516	22	("6624803" "6633846" "20030078779" "7437357" "20030078987" "6925288" "7177862" "20020161647" "20050182770" "6311182" "20020164000" "6567745" "6587786" "6587822" "6615177" "20040205614" "6401094" "6996609" "20020128821" "5915001" "7143042" "7487440").P N.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L517	11	("20050042593" "20070015118" "20070239760" "20080288922" "7506248" "7546585" "7555743" "7617519" "8065610" "8717383").PN. OR ("9922008").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/11/05 09:40 AM
L518	20	("20050055210" "20050203751" "20110060587" "20020091528" "20120166178" "20130152092" "20150242385" "7266537" "8311835" "20140297282" "20040083092" "20080082329" "6999930" "7228275" "2009150156" "8024196" "20110060587" "20130268260" "20140380285" "8024196" "20140297282" "20150242385" "6868385" "7647225" "20020091528" "8332218").PN .	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM

L519	2	16/358467.app.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L520	72	script\$2 near5 chatbot	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L521	10	("20070239760" "7555743" "20080288922" "20070015118" "8065610" "20080288922" "7546585" "7617519" "8717383" "20070015118" "7506248" "20050042593" "20070239760" "20050042593").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L522	1	"20070172063".pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L523	4	chatbot with sequenc\$4 with automat\$4	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L524	1	15/395543.app.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L525	31	("10051103" "20170324868" "20180158068" "20120203846" "20120042263" "20130166275" "20140244744" "20150347432" "20170098284" "20170236196" "2014081636" "20140143683" "20130129076" "20140237057" "20180174020" "20130080928" "20180052928" "20130311621" "20160117740" "20170076264" "20120290950" "20120084811" "20140258032" "10332170" "9191615" "20180150524" "20130232204" "20170324867" "20100030578" "20150254675" "20150163358").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L526	5	chatbot same imitat\$3 same interaction	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L527	1	"20170329466".pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L528	53	HR adj2 chatbot	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L529	105	form adj2 chatbot	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L530	301	(website or web or webpage) same chatbot near5 (click\$3 or hover\$3 or select\$4 or interact\$3 or manipul\$3)	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM

L531	29	(website or web or webpage) same chatbot near5 (click\$3 or hover\$3 or select\$4 or interact\$3 or manipul\$3 or fill\$3) near5 (user adj interface or UI or element or menu or form or input adj field or object)	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L532	12	chatbot with (fill\$up or fill\$4) with (form or field)	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L533	161	chatbot same (fill\$up or fill\$4 or complet\$3) same (form or field)	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L534	2	("20170293681" "20170330077").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L535	2	"20180143758".pn. "20040226002".pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L536	19	("20010037265" "20140341369" "20120016678" "20170249592" "20120016678" "20170249592" "20130275164" "20110057029" "20150286943" "20120059896" "20150286943" "20130007648" "20160112362" "20130110518" "20130268260" "20140058967" "20170242852" "6366925" "7558782" "20150310446" "20170011383" "20180181922").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L537	12	chatbot with (fill\$up or fill\$4 or complet\$3) with (form or field) with (data or value or information)	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L538	7	chatbot with (activat\$3 or interact\$3) with (pointer or cursor or mouse)	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L539	81	chatbot near4 input\$3 near4 data	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L540	6	("20140250195" "20150161615" "20180068365" "20190034828" "20190140986" "20190149489").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L541	8	("20080010259" "20120016678" "20120303273" "20140331176" "20150198452"	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/11/05 09:40 AM

L542	3	"20170103088" "20190003849").PN. OR ("10749823").URPN. "9213687".pn. "20140279050".pn.	(US-PGPUB; USPAT; EPO; JPO; IBM_TDB)	OR	ON	ON	2022/11/05 09:40 AM
L543	1	"20160110502".pn.	(US-PGPUB; USPAT; EPO; JPO; IBM_TDB)	OR	ON	ON	2022/11/05 09:40 AM
L544	3	"20190243889".pn. "20190220727".pn. "20140122056".pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L545	41	("20120120184" "20140 337048" "20190311792 " "20040109470" "2013 0167025" "2013021250 1" "20170000422" "959 1996" "20140278605" " 6665647" "8771206" "1 0628635" "2011012620 7" "20120075464" "201 40171834" "201602538 90" "20190259475" "20 120229634" "20130127 620" "7233872" "20190 385749" "20170337274 " "20190116212" "2002 0196944" "2014012869 1" "20150109442" "200 90094285" "201801897 56" "20050035862" "20 070238936" "20120025 989" "20130237395" "2 0130289449" "2014024 3686" "20160217264" " 20120179067" "201401 48733" "20140232600" " "20160267327" "20170 147154" "20190282130 ").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L546	2	16/358467.app.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L547	2	"9947319".pn. "8630961".pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L548	2	"20190068527".pn. "20070172063".pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L549	14	chatbot near3 (simulat\$3 or imitat\$3) near4 (hover\$3 or click\$3 or focus\$3 or fill\$4 or interact\$4)	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L550	22	(chat near bot or chat\$bot or chatbot) near3 (simulat\$3 or imitat\$3) near4 (hover\$3 or click\$3 or	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM

L551	2	focus\$3 or fill\$4 or interact\$4) 17/026305.app.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L552	22	("20060129379" "20180349556" "20070172063" "20190138600" "20050210061" "9509799" "10749823" "20160352658" "20170289071" "20180137178" "20120265528" "20140115456" "20170293610" "20160300570" "20190068527" "20190103111" "20160094492" "20190043106" "20030058369" "20120016678" "20140249830" "20180183735").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L553	2	17/026305.app.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L554	28	((("NAHUM") near3 ("Nir")) OR (("SASSON") near3 ("Shlomi"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/11/05 09:40 AM
L555	1	"20180137178".pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L556	2	"20180349556".pn. "20140249830".pn.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L557	3	(chatbot near4 builder) with (parameter or input near field)	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L558	6	("20120041903" "20140122618" "20180107461" "20190034409" "20190132264" "20190182382").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L559	4	(chatbot near4 build\$4) near7 (parameter or input near3 field or value)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L560	62	(chatbot or bot) with (build\$4 or publish) with (parameter or input near3 field or value)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L561	2	"20180349556".pn. "20140249830".pn.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L562	1	"9247029".pn.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L563	61	(build\$4 or publish\$4) with (chat same (bot)) with conversation	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L564	6	(build\$4 or publish\$3)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05

L565	2	same (conversation or chat\$4) same (chatbot or bot) same (parameter near5 value) "20140351744".pn. "20120204191".pn.	(US-PGPUB; USPAT)	OR	ON	ON	09:40 AM 2022/11/05 09:40 AM
L566	6	("20120041903" "20140122618" "20180107461" "20190034409" "20190132264" "20190182382").PN.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L567	8	16/136284.app. or 16/136293.app. or 16/132491.app. or "10478734".pn. or "10857462".pn. or "8684840".pn.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L568	2	17/026305.app.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L569	1	"20180137178".pn.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L570	1	16/358467.app.	(USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L571	4	"10277743".pn. "20180189347".pn. "20190037077".pn. "10897539".pn.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L572	637	(chatbot or bot) with (add\$3 or insert\$4 or fill\$3) with (field or entry or form)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L573	107	(chatbot or bot) with (add\$3 or insert\$4 or fill\$3) with (field or entry or form) with (value or parameter)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L574	16	(arnon near3 mazza).inv.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L575	19	form-fill\$3 with (chatbot or bot)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L576	1528	(form-fill\$3 or input\$4 or field or entry or enter or fill\$3) with (value or parameter) with (chatbot or bot)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L577	873	L317 and @ad<"20171105"	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L578	44	L318 and (H04L51/02 OR G06F40/134 OR G06F3/0482 OR G06F3/0483 OR G06F3/16 OR G06F3/167 OR	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM

L579	5	G06F9/542 OR G06F16/284 OR G06F16/248 OR G06F3/04895 OR G06F17/279).CPC. (form-fill\$3 or (data or input\$4) near3 (form or field or entry or enter\$3 or fill\$3)) with (value near5 parameter) with (chatbot or bot)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L580	1225	(form-fill\$3 or (data or input\$4) near3 (form or field or entry or enter\$3 or fill\$3)) with (chatbot or bot)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L581	532	L322 and @ad<"20171105"	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L582	92	L323 and (H04L51/02 OR G06F40/134 OR G06F3/0482 OR G06F3/0483 OR G06F3/16 OR G06F3/167 OR G06F9/542 OR G06F16/284 OR G06F16/248 OR G06F3/04895 OR G06F17/279).CPC.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L583	73	L323 and (H04L51/02).CPC.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L584	28	((("NAHUM") near3 ("Nir")) OR (("SASSON") near3 ("Shlomi"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/11/05 09:40 AM
L585	17	(build\$4 or publish\$3 or develop\$3) same (conversation or chat\$4 or dialogue) same (chatbot or bot) same (parameter near5 value)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L586	21	(build\$4 or publish\$3 or develop\$3) same (conversation or chat\$4 or dialogue) same (chatbot or bot) same (parameter near5 (data or value))	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L587	15	("20100169792" "20100 251128" "20160171119 " "20150339942" "2002 0194164" "8024660" "2 0110185288" "2014031 0596" "20120317481" " 20140068498" "898444	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM

L588	30	1" "20120022951" "20150310488" "20070300174" "20080313149").PN . ("20170324868" "20180158068" "20120203846" "20120042263" "20130166275" "20140244744" "20150347432" "20170098284" "20170236196" "20140081636" "20140143683" "20130129076" "20140237057" "20180174020" "20130080928" "20180052928" "20130311621" "20160117740" "20170076264" "20120290950" "20120084811" "20140258032" "10332170" "9191615" "20180150524" "20130232204" "20170324867" "20100030578" "20150254675" "20150163358").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L589	3	("20110321008" "20130254139" "20170084273").PN.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L590	2	17/026305.app.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L591	28	((("NAHUM") near3 ("Nir")) OR ((("SASSON") near3 ("Shlomi")))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/11/05 09:40 AM
L592	36	(build\$4 or defin\$4) with (chatbot or bot or intelligent near assist\$4) with (parameter\$4 near4 (process or operation or input\$3))	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L593	37	(build\$4 or defin\$4) with (chatbot or bot or intelligent near assist\$4) with (parameter\$4 near4 (process or operation or input\$3))	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L594	13	("10009465" "10498674" "10680986" "11012384" "20100070448" "20150100943" "20170019487" "20170147297" "20170230312" "20180322380" "20190182184" "20200143797" "2020015	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM

L595	25	0839").PN. ("10594635" "10680986" "20040078444" "20050086309" "20060129455" "20120215871" "20130262309" "20140122619" "20170048170" "20180196796" "20180219921" "20180322380" "20180324116" "20180331980" "20190034409" "20190068527" "20190124020" "20190182184" "20190325868" "20200097221" "20200143797" "20200342873" "20200342874" "20200344186").PN. OR ("11012384").URPN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/11/05 09:40 AM
L596	11	("20170270431" "93694 10" "20170269972" "94 01989" "9736088" "745 4469" "7039654" "7861 252" "20170308811" "2 0170237692" "9264393 " "9369410").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/11/05 09:40 AM
L597	2	"20200169559".pn. "20150113449".pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/11/05 09:40 AM
L598	2	"20180107461".pn. "20180090141".pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/11/05 09:40 AM
L599	43	(build\$3 or built or defin\$4) with (auto\$5 near4 (process or operation)) with (chatbot or chat near bot or bot or (digital or intelligent) near assistant)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/11/05 09:40 AM
L600	11	(chatbot or chat\$bot or bot or (digital or intelligent) near assist\$4) with simulat\$3 near4 (interaction or input\$3) with (GUI or user adj interface or form or input near field or content or document)	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L601	5	("20180173205" "20180	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05

L602	1	275858 "20150029195 "20130346842 "2018 0225077").PN. (defin\$4 or build\$3) with (conversation or chat\$3 or dialog) with (chatbot or chat\$bot or bot or (digital or intelligent) near assist\$4) with simulat\$3 near4 (interaction or input\$3) with (GUI or user adj interface or form or input near2 field or content or document)	(US-PGPUB; USPAT)	OR	OFF	OFF	09:40 AM 2022/11/05 09:40 AM
L603	209	(defin\$4 or build\$3) same (conversation or chat\$3 or dialog) same(chatbot or chat\$bot or bot or (digital or intelligent) near assist\$4) same (interaction or input\$3) with (GUI or user adj interface or form or input near2 field or content or document)	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L604	130	L346 and (H04L51/02 OR G06F40/134 OR G06F3/0482 OR G06F3/0483 OR G06F3/16 OR G06F3/167 OR G06F9/542 OR G06F16/284 OR G06F16/248 OR G06F3/04895 OR G06F17/279).CPC.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L605	20	("10025567" "20150350443" "20170213157" "20170279906" "20170286269" "20170315714" "20170344622" "20180054400" "20180054523" "20180300311" "20180308476" "20180358006" "20180359198" "20190042561" "20190043106" "20190124020" "20190132264" "7881440"	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/11/05 09:40 AM

L606	303	"9961191").PN. OR ("10839798").URPN. (chatbot or chat\$bot or bot or (digital or intelligent) near assist\$4) with (automation near3 process)	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L607	20	(chatbot or chat\$bot or bot or (digital or intelligent) near assist\$4) with (automation near3 process) with (GUI or user adj interface or document)	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L608	27	(chatbot or chat\$bot or bot or (digital or intelligent) near assist\$4) with (automation near3 process) with (GUI or user adj interface or document)	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L609	303	(chatbot or chat\$bot or bot or (digital or intelligent) near assist\$4) with (automation near3 process)	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L610	35	L352 and (H04L51/02 OR G06F40/134 OR G06F3/0482 OR G06F3/0483 OR G06F3/16 OR G06F3/167 OR G06F9/542 OR G06F16/284 OR G06F16/248 OR G06F3/04895 OR G06F17/279).CPC.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L611	35	L352 and (H04L51/02 OR G06F40/134 OR G06F3/0482 OR G06F3/0483 OR G06F3/16 OR G06F3/167 OR G06F9/542 OR G06F16/284 OR G06F16/248 OR G06F3/04895 OR G06F17/279).CPC.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L612	136	L352 and @ad<"20171105"	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L613	865	(conversation or chat\$3	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05

		or dialog) with (chatbot or chat\$bot or bot or (digital or intelligent) near assist\$4) with (interaction or input\$3) with (GUI or user adj interface or form or input near2 field or content or document)					09:40 AM
L614	488	L356 and (H04L51/02 OR G06F40/134 OR G06F3/0482 OR G06F3/0483 OR G06F3/16 OR G06F3/167 OR G06F9/542 OR G06F16/284 OR G06F16/248 OR G06F3/04895 OR G06F17/279).CPC.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L615	96	L357 and @ad<"20171105"	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 09:40 AM
L616	28	((("NAHUM") near3 ("Nir")) OR (("SASSON") near3 ("Shlomi"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	OFF	OFF	2022/11/05 09:40 AM
L617	1	16/358467.app.	(USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L618	1	17/577530.app.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 09:40 AM
L623	2144	(conversation OR chat\$3 OR dialog) WITH (chatbot OR chat\$bot OR bot OR (digital OR intelligent) NEAR assist\$4) WITH (interaction OR input\$3) WITH (GUI OR user ADJ interface OR form OR input near2 field OR content OR document)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2022/11/05 10:01 AM
L624	488	L623 AND (H04L51/02 OR G06F40/134 OR G06F3/0482 OR G06F3/0483 OR G06F3/16 OR G06F3/167 OR G06F9/542 OR G06F16/284 OR G06F16/248 OR G06F3/04895 OR	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/05 10:01 AM

L626	96	G06F17/279).CPC. L624 AND @ad<"20171105"	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 10:02 AM
L627	439	(chatbot OR bot) WITH (add\$3 OR insert\$4 OR fill\$3) WITH (field OR entry OR form) WITH (value OR parameter OR data)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/11/05 10:02 AM
L628	144	L627 AND @ad<"20171105"	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/05 10:03 AM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

Discover

Map

chat bot filling form

TIC

1 - 50

Generating chat bots from web api specifications

Automatic generation of a chat bot from an API specification to carry out a dialogue with a user and invoke an API call described in the API specification. Based on input API specification, a conversational bot specification representing a dialog flow is constructed. A natural language expression is...

INTL BUSINESS MACHINES CORP [+1]

WO2019042736A1 : WIPO Applications : 2019-03-07 : 4

System, device, and method of configuring and automatically operating a user-engagement flow

System, device, and method of efficiently configuring and automatically operating a user- engagement flow of operations, particularly in response to estimated risk factors, behavioral signals, and the particular context or functionality in which signals are obtained or collected. A computerized...

BIOCATCH LTD

WO202212356A1 : WIPO Applications : 2022-06-16 : 4

Generating chat bots from web api specifications

Automatic generation of a chat bot from an API specification to carry out a dialogue with a user and invoke an API call described in the API specification. Based on input API specification, a conversational bot specification representing a dialog flow is constructed. A natural language expression is...

INTL BUSINESS MACHINES CORP

US20190267637 : US Applications : 2019-08-19 : 4

Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot

A method, apparatus and product for chat-based application interface for automation. Using a natural language interface, receiving user input. Based on the user input, determining an automation process of a computer program having a user interface (UI), to be executed. The automation process is...

WALKME LTD

US20220160251 : US Applications : 2022-05-12 : 4

Generating chat bots from web API specifications

Automatic generation of a chat bot from an API specification to carry out a dialogue with a user and invoke an API call described in the API specification. Based on input API specification, a conversational bot specification representing a dialog flow is constructed. A natural language expression is...

INTL BUSINESS MACHINES CORP

US10879631 : US Patents : 2020-06-09 : 4

Relevance

Publication Date

First Our Assignees by Relevance

INTL BUSINESS MACHIN...	(73)
BIOCATCH LTD	(8)
WALKME LTD	(7)
MICROSOFT TECH LICE...	(177)
LIVEPERSON INC	(23)
ROBERT BOSCH GMBH	(1)
GENESYS CLOUD SRVC I...	(77)
ORACLE INTL CORP	(28)

Charts based on top 1500 results

More V

Result 1



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PATENT AND TRADEMARK OFFICE**

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

APPROVAL LETTER

APPLICATION #
17/577,530

FILING DATE
01/18/2022

APPLICANT/PATENT UNDER REEXAMINATION
Nir NAHUM

Title of Invention

Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot

Electronic terminal disclaimer filed on 11/19/2022

☒ Approved

This patent is subject to a Terminal Disclaimer

Approved / Disapproved by: Electronic Terminal Disclaimer automatically approved



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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
17/577,530

RECEIPT DATE / TIME
11/19/2022 05:02:17 PM ET

ATTORNEY DOCKET #
1179.0236 (583-6.6USCON2)

Title of Invention

Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot

Application Information

APPLICATION TYPE Utility - Nonprovisional Application
under 35 USC 111(a)

PATENT # -

CONFIRMATION # 5885

FILED BY Mark Koffsky

PATENT CENTER # 61201690

FILING DATE 01/18/2022

CUSTOMER # 106928

FIRST NAMED INVENTOR Nir NAHUM

CORRESPONDENCE ADDRESS -

AUTHORIZED BY -

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
petition-request.pdf	3	Terminal Disclaimer-Filed (Electronic)	48 KB
grantLetter.pdf	1	Terminal Disclaimer-Electronic- Approved	19 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
petition-request.pdf	B9A00D950277EBD61EEBCAA0825536791FD45B4D52A988BD6 4EC831EA0BED93208B75F98B6973988C3B851DD0D6476F6AF

04189C4A5AFA30FF8D85D8A4E64732

grantLetter.pdf

B652FDB2D3F43494D607C0CD586860D9EC70D91847CD88A44
3B1EADF82730661346D19E63FA30F54B94871F53619B45A9D5
F4486A32251373A554B8F23258525

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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



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PATENT AND TRADEMARK OFFICE**

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ELECTRONIC PAYMENT RECEIPT

APPLICATION # 17/577,530	RECEIPT DATE / TIME 11/19/2022 05:02:17 PM ET	ATTORNEY DOCKET # 1179.0236 (583-6.6USCON2)
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Title of Invention

Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	5385	FILED BY	Mark Koffsky
PATENT CENTER #	61201690	AUTHORIZED BY	-
CUSTOMER #	106928	FILING DATE	01/18/2022
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Nir NAHUM

Payment Information

PAYMENT METHOD CARD / 4004	PAYMENT TRANSACTION ID E2022A1H02581265	PAYMENT AUTHORIZED BY Mark Koffsky
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FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
1814	STATUTORY DISCLAIMER, INCLUDING TERMINAL DISCLAIMER	170.00	1	170.00
TOTAL AMOUNT:				\$170.00

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New Applications Under 35 U.S.C. 111

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

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TERMINAL DISCLAIMER TO OBTAIN A PROVISIONAL DOUBLE PATENTING REJECTION OVER A PENDING "REFERENCE" APPLICATION

APPLICATION # 17577530 FILING DATE 01/18/2022 FIRST NAMED INVENTOR Nir NAHUM ATTORNEY DOCKET # 1179.0236 (583-6.6USCON2)

Title of Invention

Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot



Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action



This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.

Owner	Percent interest
WALKME LTD.	100%
Total	100%

The owner(s) of percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of any patent granted on pending reference Application Number(s)

Application #	Filing Date
---------------	-------------

as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference application. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and any patent granted on the reference application are commonly owned. This agreement runs with any patent granted on the

instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term of any patent granted on said reference application, "as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference application," in the event that any such patent granted on the pending reference application: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321, has all claims canceled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as shortened by any terminal disclaimer filed prior to its grant.

The owner(s) of percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent number(s)

Patent #

10819664

as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later:

- expires for failure to pay a maintenance fee;
- is held unenforceable;
- is found invalid by a court of competent jurisdiction;
- is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
- has all claims canceled by a reexamination certificate;
- is reissued; or
- is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.



Terminal disclaimer fee under 37 CFR 1.20(d) included with Electronic Terminal Disclaimer request.

Applicant claims the following entity status:

Regular Undiscounted

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I certify, in accordance with 37 CFR 1.4(d)(4) that I am: An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application

Signature	Name	Registration #
/Mark I. Koffsky/	Mark Koffsky	41906

* Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner). Form PTO/SB/96 may be used for making this certification. See MPEP 324.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number: 17/577,530
Filing Date: January 18, 2022
First Named Inventor: Nir NAHUM
Art Unit: 2171
Examiner: Mahelet SHIBEROU
Title: Invoking an Automatic Process in a Web-Based Target System
Using a Chat-Bot
Attorney Docket No.: 1179.0236 (583-6.6USCON2)

RESPONSE TO NON-FINAL ACTION

In response to the Office action dated November 10, 2022, applicant notes that the sole open issue is an obvious-type double patenting rejection over US Patent No. 10,819,664. In response, applicant is herewith filing a terminal disclaimer over this patent. Accordingly, a Notice of Allowance is requested.

Respectfully submitted,

Dated: November 19, 2022

/Mark I. Koffsky/

Mark I. Koffsky
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New York, NY 10018
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UNITED STATES
PATENT AND TRADEMARK OFFICE

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

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
17/577,530

RECEIPT DATE / TIME
11/19/2022 05:05:32 PM ET

ATTORNEY DOCKET #
1179.0236 (583-6.6USCON2)

Title of Invention

Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot

Application Information

APPLICATION TYPE Utility - Nonprovisional Application
under 35 USC 111(a)

PATENT # -

CONFIRMATION # 5885

FILED BY Mark Koffsky

PATENT CENTER # 61201692

FILING DATE 01/18/2022

CUSTOMER # 106928

FIRST NAMED INVENTOR Nir NAHUM

CORRESPONDENCE ADDRESS -

AUTHORIZED BY -

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
Transmittal.pdf	1	Amendment/Request for Reconsideration-After Non-Final Rejection	94 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
Transmittal.pdf	38FCB56FC8358F4951D895205EC64F7B284EF3B65F35778493 BAD192374F4E641B844708FFF0D18D4F6D41D7FE02E5D80FB 6E39A9C9A7B16DB2DF91A06E866A8

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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NOTICE OF ALLOWANCE AND FEE(S) DUE

106928 7590 12/09/2022
Koffsky Schwalb LLC
500 Seventh Avenue
8th Floor
New York, NY 10018

EXAMINER

SHIBEROU, MAHELET

ART UNIT

PAPER NUMBER

2171

DATE MAILED: 12/09/2022

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/577,530	01/18/2022	Nir NAHUM	1179.0236 (583-6.6USCON2)	5885

TITLE OF INVENTION: Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	03/09/2023

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. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

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

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

PART B - FEE(S) TRANSMITTAL

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

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

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

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

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

106928 7590 12/09/2022
Koffsky Schwalb LLC
500 Seventh Avenue
8th Floor
New York, NY 10018

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

Certificate of Mailing or Transmission

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/577,530	01/18/2022	Nir NAHUM	1179.0236 (583-6.6USCON2)	5885

TITLE OF INVENTION: Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	03/09/2023

EXAMINER	ART UNIT	CLASS-SUBCLASS
SHIBEROU, MAHELET	2171	713-175000

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

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

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

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

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

1 _____

2 _____

3 _____

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

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

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

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

4a. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

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

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

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

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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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/577,530	01/18/2022	Nir NAHUM	1179.0236	5885
106928	7590	12/09/2022	(583 6.6USCON2)	
Koffsky Schwalb LLC			EXAMINER	
500 Seventh Avenue			SHIBEROU, MAHELET	
8th Floor				
New York, NY 10018			ART UNIT	
			PAPER NUMBER	
			2171	

DATE MAILED: 12/09/2022

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

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

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

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

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

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

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

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 17/577,530	Applicant(s) NAHUM et al.	
	Examiner MAHELET SHIBEROU	Art Unit 2171	AIA (FITF) Status Yes

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

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

1. ☒ This communication is responsive to the Amendment filed on 11/19/2022.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

3. ☒ The allowed claim(s) is/are 1-20 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
Certified copies:
a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
* Certified copies not received: _____.

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

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

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

Attachment(s)

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

/MAHELET SHIBEROU/ Primary Examiner, Art Unit 2171	
---	--

Notice of Pre-AIA or AIA Status

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

Terminal Disclaimer

2. The terminal disclaimer filed on 11/19/2022 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of Patent #10819664 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Allowable Subject Matter

3. Claim1-20 are allowed.

REASONS FOR ALLOWANCE

4. The following is an examiner's statement of reasons for allowance: The cited prior arts alone or in combination do not expressly teach the limitations cited in the claims, and therefore the claims are allowed.

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."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MAHELET SHIBEROU whose telephone number is (571)270-7493. The examiner can normally be reached Monday-Friday 9:00 AM-5:00 PM Eastern Time.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Ell can be reached on 571-270-3264. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: <https://patentcenter.uspto.gov>. Visit <https://www.uspto.gov/patents/apply/patent-center> for more information about Patent Center and <https://www.uspto.gov/patents/docx> for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MAHELET SHIBEROU/
Primary Examiner, Art Unit 2171

Notice of References Cited	Application/Control No. 17/577,530		Applicant(s)/Patent Under Reexamination NAHUM et al.	
	Examiner MAHELET SHIBEROU		Art Unit 2171	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20030058369-A1	03-2003	Takechi, Hideaki	H04L12/2805	375/E7.003
*	B	US-20050210061-A1	09-2005	Chang, Su Chin	G06F16/243	707/999.102
*	C	US-20060129379-A1	06-2006	Ramsey; William D.	G06F40/30	704/9
*	D	US-20180137178-A1	05-2018	Corbett; David J.	G06F3/04895	1/1
*	E	US-9509799-B1	11-2016	Cronin; John	G06F3/0484	1/1
*	F	US-20120016678-A1	01-2012	Gruber; Thomas Robert	G06F40/40	704/E21.001
*	G	US-20120265528-A1	10-2012	Gruber; Thomas Robert	G10L15/183	704/235
*	H	US-20140115456-A1	04-2014	White; Brent-Kaan William	G10L15/22	715/708
*	I	US-20170293610-A1	10-2017	Tran; Bao	G06Q10/109	1/1
*	J	US-20140249830-A1	09-2014	Gallopyn; Guido	G16Z99/00	705/2
*	K	US-20180349556-A1	12-2018	Owen; Donald Eugene	G16H15/00	1/1
*	L	US-10749823-B1	08-2020	Popa; Georgeta	G06F16/29	1/1
*	M	US-20070172063-A1	07-2007	Biggs; Todd S.	H04L51/04	380/255

FOREIGN PATENT DOCUMENTS

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

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

U.S. Patent and Trademark Office
PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 20221130

Notice of References Cited	Application/Control No. 17/577,530		Applicant(s)/Patent Under Reexamination NAHUM et al.	
	Examiner MAHELET SHIBEROU		Art Unit 2171	Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20180183735-A1	06-2018	Naydonov; Oleg	H04L51/02	1/1
*	B	US-20190043106-A1	02-2019	Talmor; Yoram	G06N20/00	1/1
*	C	US-20190068527-A1	02-2019	CHEN; Jiang	G06Q10/00	1/1
*	D	US-20190103111-A1	04-2019	Tiwari; Mitul	G06F16/3329	1/1
*	E	US-20190138600-A1	05-2019	Krishnan; Arvind	G10L15/22	1/1
*	F	US-20180090141-A1	03-2018	Periorellis; Panos	G10L15/1815	1/1
*	G	US-20180107461-A1	04-2018	Balasubramanian; Barath	G06F8/38	1/1
*	H	US-10839798-B2	11-2020	Krishnan; Arvind	G10L15/22	1/1
*	I	US-20190124020-A1	04-2019	Bobbarjung; Deepak	G06Q20/123	1/1
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

U.S. Patent and Trademark Office
PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 20221130

Issue Classification 	Application/Control No. 17/577,530	Applicant(s)/Patent Under Reexamination NAHUM et al.
	Examiner MAHELET SHIBEROU	Art Unit 2171

CPC						
Symbol					Type	Version
H04L	/	51	/	02	F	2013-01-01
G06F	/	3	/	16	I	2013-01-01
G06F	/	40	/	35	I	2020-01-01
G06F	/	40	/	134	I	2020-01-01
H04L	/	63	/	0823	I	2013-01-01
H04L	/	63	/	0884	I	2013-01-01
H04L	/	63	/	123	I	2013-01-01
H04L	/	63	/	20	I	2013-01-01
G06F	/	3	/	0482	I	2013-01-01
G06F	/	3	/	0483	I	2013-01-01
G06F	/	3	/	167	I	2013-01-01
G06F	/	9	/	542	I	2013-01-01
H04L	/	2463	/	082	A	2013-01-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version
/		/		

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 20	
/MAHELET SHIBEROU/ Primary Examiner, Art Unit 2171 (Primary Examiner) _____ (Date) 30 November 2022		O.G. Print Claim(s) 1	O.G. Print Figure 1

U.S. Patent and Trademark Office

Part of Paper No.: 20221130

Issue Classification 	Application/Control No. 17/577,530	Applicant(s)/Patent Under Reexamination NAHUM et al.
	Examiner MAHELET SHIBEROU	Art Unit 2171

INTERNATIONAL CLASSIFICATION			
CLAIMED			
G06F		3	048

NON-CLAIMED			

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

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

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/MAHELET SHIBEROU/ Primary Examiner, Art Unit 2171	30 November 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office

Part of Paper No.: 20221130

Issue Classification 	Application/Control No. 17/577,530	Applicant(s)/Patent Under Reexamination NAHUM et al.
	Examiner MAHELET SHIBEROU	Art Unit 2171

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☒ T.D. ☐ R.1.47															
CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 20	
/MAHELET SHIBEROU/ Primary Examiner, Art Unit 2171 (Primary Examiner) _____ (Date) 30 November 2022		O.G. Print Claim(s) 1	O.G. Print Figure 1

U.S. Patent and Trademark Office

Part of Paper No.: 20221130

<i>Index of Claims</i> 	Application/Control No. 17/577,530	Applicant(s)/Patent Under Reexamination NAHUM et al.
	Examiner MAHELET SHIBEROU	Art Unit 2171

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

CLAIMS									
☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☒ T.D. ☐ R.1.47									
CLAIM		DATE							
Final	Original	11/05/2022	11/30/2022						
	1	✓	=						
	2	✓	=						
	3	✓	=						
	4	✓	=						
	5	✓	=						
	6	✓	=						
	7	✓	=						
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	14	✓	=						
	15	✓	=						
	16	✓	=						
	17	✓	=						
	18	✓	=						
	19	✓	=						
	20	✓	=						

<i>Search Notes</i> 	Application/Control No. 17/577,530	Applicant(s)/Patent Under Reexamination NAHUM et al.
	Examiner MAHELET SHIBEROU	Art Unit 2171

CPC - Searched*		
Symbol	Date	Examiner
H04L51/02 G06F40/134 G06F3/0482 G06F3/0483 G06F3/16 G06F3/167 G06F9/542 G06F16/284 G06F16/248 G06F3/04895 G06F17/279	11/05/2022	MS
H04L51/02 G06F40/134 G06F3/0482 G06F3/0483 G06F3/16 G06F3/167 G06F9/542 G06F16/284 G06F16/248 G06F3/04895 G06F17/279	11/30/2022	MS

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

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

Search Notes		
Search Notes	Date	Examiner
Inventor Search	11/05/2022	MS
PE2E Search	11/05/2022	MS
Text Search	11/05/2022	MS
Update PE2E Search	11/30/2022	MS
Update Inventor Search	11/30/2022	MS
Update Text Search - IP.com and Google Patents	11/30/2022	MS

/MAHELET SHIBEROU/ Primary Examiner, Art Unit 2171	
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<i>Search Notes</i> 	Application/Control No. 17/577,530	Applicant(s)/Patent Under Reexamination NAHUM et al.
	Examiner MAHELET SHIBEROU	Art Unit 2171

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	East Interference Search	11/30/2022	MS

/MAHELET SHIBEROU/ Primary Examiner, Art Unit 2171	
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Patents

INVOKING AN AUTOMATIC PROCESS IN A WEB-BASED TARGET SYSTEM USING A

INVOKING AN AUTOMATIC PROCESS IN A WEB-BASED TARGET SYSTEM USING A CHAT-BOT;

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Sort by: Relevance ▾ Group by: None ▾ Deduplicate by: Family ▾ Results / page: 10 ▾

Invoking an Automatic Process in a Web-Based Target System Using a Chat-BotWO EP US • [US20220186051A1](#) • Nir Nahum • Walkme Ltd.

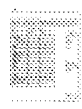
Priority 2017-11-05 • Filed 2022-01-18 • Published 2022-05-12

A method, apparatus and product for chat-based application interface for automation. Using a natural language interface, receiving user input. Based on the user input, determining an automation process of a computer program having a user interface (UI), to be executed. The automation process is ...

Mesh network personal emergency response applianceUS • [US10617479B2](#) • Bao Tran • Koninklijke Philips N.V.

Priority 2006-06-30 • Filed 2018-07-26 • Granted 2019-12-31 • Published 2019-12-31

A monitoring system using an activity sensor to determine patterns of activity based upon the user activity occurring over time.

Enhanced syndicationUS • [US8200778B2](#) • James F. Moore • Newslike Media Group, Inc.

Priority 2005-02-01 • Filed 2005-09-10 • Granted 2012-06-12 • Published 2012-06-12

A variety of tools and techniques are disclosed for managing, viewing, publishing, searching, clustering, and otherwise manipulating data streams. Data streams such as RSS data feeds may be searched, aggregated, and filtered into a processed feed. The processed feed, along with rules used to ...

Techniques for automated self-adjusting corporation-wide feature discovery and ...US • [US1147537B2](#) • Alberto Polesi • Oracle International Corporation

Priority 2019-09-14 • Filed 2020-06-04 • Granted 2022-10-18 • Published 2022-10-18

The present disclosure relates to systems and methods for a self-adjusting corporation-wide discovery and integration feature of a machine learning system that can review a client's data store, review the labels for the various data schema, and effectively map the client's data schema to ...

Identity verification and management systemWO EP US CN JP KR CA • [KR20220015871A](#) • 스텝톤 앨런 황순 • ㈜5아이디, 아이앤씨

Priority 2019-05-17 • Filed 2020-05-15 • Published 2022-02-10

The disclosed embodiments include identity verification and management services that allow users to authenticate their identity during registration and access and change their identity information through a secure portal. The registration process includes collecting various identification data and ...

Automatic message selection with a chatbotUS • [US9736739B2](#) • Michael G. Marar • The Delfin Project, Inc.

Priority 2008-05-21 • Filed 2011-10-20 • Granted 2014-05-27 • Published 2014-05-27

Disclosed is a novel system and process to use information gathered by a chatbot system including explanations why a potential customer is discontinuing a transaction. The transaction in one example is a sales transaction. This information is associated with the potential customer. Using this ...

System and method for tracking, utilizing predicting, and implementing online ...US • [US8102846A2](#) • Stephan HEATH • Stephan HEATH

Priority 2011-09-15 • Filed 2012-01-27 • Granted 2018-10-16 • Published 2018-10-16

Systems and methods are provided for combined social behavior tracking, online surveillance and web bot software technologies via a mobile device or computer for tracking online consumer behavior and data, cookies, embedded advertisements, predicting online consumer behavior, buying patterns by ...

Systems and methods for invoking chatbots in a channel based communication ...US • [US1018737B2](#) • Richard Smullen • Pipestream Inc.

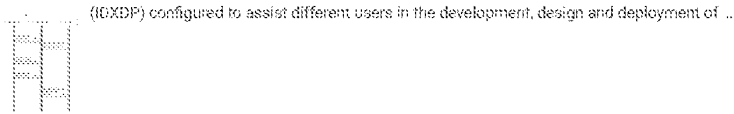
Priority 2015-03-25 • Filed 2017-03-07 • Granted 2019-01-22 • Published 2019-01-22

The disclosed systems and methods join a user to a sub-channel within a primary communication channel. A message from the user comprises a user identifier and a text communication. The communication is compared to each tag in each set of tags in a plurality of sets of tags, each set of tags being ...

System and method implementing campaign products and services within an ...US • [US11246731B2](#) • William K. Brulin • Kony, Inc.

Priority 2018-11-21 • Filed 2019-09-26 • Granted 2022-02-15 • Published 2022-02-15

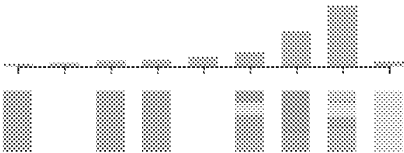
The present disclosure relates to digital experience development platforms and, more particularly, one or more components, systems and methods thereof of an intelligent digital experience development platform



System and method for social networking interactions using online consumer ...

US • US10217117B2 • Stephen HEATH • Stephen HEATH
Priority 2011-09-15 • Filed 2012-02-08 • Granted 2019-02-26 • Published 2019-02-26
Systems and methods are provided using combined technologies for social networking interactions using tracking, predicting, and implementing online consumer communications, browsing behavior, buying patterns, and advertisements and affiliate advertising and communications, for online coupons, ...

Top 1000 results by filing date



Relative count of top 5 values

Assignees	Inventors	CPCs
Genesys Telecommunications Laboratories, Inc		1
International Business Machines Corporation		1
Oracle International Corporation		
Microsoft Technology Licensing, LLC		1
Livestorm, Inc.		1
Expand		

L1125	11	"20200344186").PN. OR ("11012384").URPN. ("20170270431" "93694 10" "20170269972" "94 01989" "9736088" "745 4469" "7039654" "7861 252" "20170308811" "2 0170237692" "9264393 " "9369410").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/11/30 08:46 PM
L1126	2	"20200169559".pn. "20150113449".pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/11/30 08:46 PM
L1127	2	"20180107461".pn. "20180090141".pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/11/30 08:46 PM
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L1129	11	(chatbot or chat\$bot or bot or (digital or intelligent) near assist\$4) with simulat\$3 near4 (interaction or input\$3) with (GUI or user adj interface or form or input near field or content or document)	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/30 08:46 PM
L1130	5	("20180173205" "20180 275858" "20150029195 " "20130346842" "2018 0225077").PN.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/30 08:46 PM
L1131	1	(defin\$4 or build\$3) with (conversation or chat\$3 or dialog) with (chatbot or chat\$bot or bot or (digital or intelligent) near assist\$4) with simulat\$3 near4 (interaction or input\$3) with (GUI or user adj interface or form or input near2 field or content or document)	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/30 08:46 PM
L1132	216	(defin\$4 or build\$3) same (conversation or chat\$3 or dialog) same(chatbot or chat\$bot or bot or (digital or intelligent) near assist\$4) same (interaction or input\$3)	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/30 08:46 PM

L1133	133	with (GUI or user adj interface or form or input near2 field or content or document) L346 and (H04L51/02 OR G06F40/134 OR G06F3/0482 OR G06F3/0483 OR G06F3/16 OR G06F3/167 OR G06F9/542 OR G06F16/284 OR G06F16/248 OR G06F3/04895 OR G06F17/279).CPC.	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/30 08:46 PM
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L1137	27	(chatbot or chat\$bot or bot or (digital or intelligent) near assist\$4) with (automation near3 process) with (GUI or user adj interface or	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/30 08:46 PM

L1138	305	document) (chatbot or chat\$bot or bot or (digital or intelligent) near assist\$4) with (automation near3 process)	(US-PGPUB; USPAT)	OR	OFF	OFF	2022/11/30 08:46 PM
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L1146	1	("Nir") OR (("SASSON") near3 ("Shlomi"))).INV. 16/358467.app.	USOCR; EPO; JPO; DERWENT) (USPAT)	OR	ON	ON	08:46 PM 2022/11/30 08:46 PM
L1147	1	17/577530.app.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/30 08:46 PM
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L1149	501	L623 AND (H04L51/02 OR G06F40/134 OR G06F3/0482 OR G06F3/0483 OR G06F3/16 OR G06F3/167 OR G06F9/542 OR G06F16/284 OR G06F16/248 OR G06F3/04895 OR G06F17/279).CPC.	(US-PGPUB; USPAT)	OR	ON	ON	2022/11/30 08:46 PM
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L1157	1	"10819664".pn.	(US-PGPUB; USPAT)	OR	ON	ON	08:46 PM 2022/11/30

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N281	49	((chat near bot or chat\$bot or chatbot) interact\$4 user adj interface).clm.	(US-PGPUB; USPAT)	AND	OFF	OFF	2020/08/26 03:57 PM
N283	1	((chat near bot or chat\$bot or chatbot) sequence automation).clm.	(US-PGPUB; USPAT)	AND	OFF	OFF	2020/08/26 04:32 PM
N361	28	((chat\$bot or chat near bot or chatbot) conversation interact\$4 user adj interface).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2021/10/21 09:08 AM
N362	2	(defin\$4 conversation (chat\$bot or chat near bot or chatbot) automation process user adj interface).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2021/10/21 09:09 AM
N363	2	(defin\$4 conversation (chat\$bot or chat near bot or chatbot) automation process).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2021/10/21 09:09 AM
N364	128	((chat near bot or chat\$bot or chatbot) interact\$4 user adj interface).clm.	(US-PGPUB; USPAT)	AND	OFF	OFF	2022/11/30 08:07 PM
N365	4	((chat near bot or chat\$bot or chatbot) sequence automation).clm.	(US-PGPUB; USPAT)	AND	OFF	OFF	2022/11/30 08:07 PM
N366	42	((chat\$bot or chat near bot or chatbot) conversation interact\$4 user adj interface).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2022/11/30 08:07 PM
N367	2	(defin\$4 conversation (chat\$bot or chat near bot or chatbot)	(US-PGPUB; USPAT)	AND	ON	ON	2022/11/30 08:07 PM

N368	2	automation process user adj interface).clm. (defin\$4 conversation (chat\$bot or chat near bot or chatbot) automation process).clm.	(US-PGPUB; USPAT)	AND	ON	ON	2022/11/30 08:07 PM
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Discover

-ID-Analyze

An application record may define values of t...

☐ 1 - 50

☐ 1. Methods For Remote Configuration Of Software Applications
 Methods for remotely configuring application software on a user device are described. The application software defines at least one operating parameter having a set of pre-defined values which change the way the application interacts with the operating system. The operating parameter can be...
 BLACKBERRY LTD
 US20170206100 : US Applications : 2017-07-20 : 4

☐ 2. Methods for remote configuration of software applications
 Methods for remotely configuring application software on a user device are described. The application software defines at least one operating parameter having a set of pre-defined values which change the way the application interacts with the operating system. The operating parameter can be...
 BLACKBERRY LTD
 US20140208088 : US Applications : 2014-07-24 : 4

☐ 3. Methods for remote configuration of software applications
 Methods for remotely configuring application software on a user device are described. The application software defines at least one operating parameter having a set of pre-defined values which change the way the application interacts with the operating system. The operating parameter can be...
 BLACKBERRY LTD
 US8845934 : US Patents : 2017-05-09 : 4

☐ 4. Methods for remote configuration of software applications
 Methods for remotely configuring application software on a user device are described. The application software defines at least one operating parameter having a set of pre-defined values which change the way the application interacts with the operating system. The operating parameter can be...
 BLACKBERRY LTD
 US11207845 : US Patents : 2020-02-01 : 4

☐ 5. Data generation
 A method includes receiving data indicative of a number of times each of one or more rules was executed by a data processing application during processing of one or more records; based on the number of times each of the rules was executed by the data processing application, determining a content...
 AB INITIO TECH LLC

Relevance

Publication Date

First Our Assignees by Relevance

BLACKBERRY LTD	(14)
AB INITIO TECH LLC	(229)
IAV GMBH ING GES AUT...	(1)
ORACLE AMERICA INC	(2)
HUAWEI TECH CO LTD	(6)
BULL SA	(12)
LEXISNEXIS RISK SOLUTI...	(47)
INITIO SOFTWARE INC	(10)

Charts based on top 1500 results

☐ Result 7 ☐

[More v](#)

Bibliographic Data

Application No: 17/577,530

Foreign Priority claimed: ☐ Yes ☒ No

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

Verified and Acknowledged: /MAHELET SHIBEROU/

Examiner's Signature

Initials

Title:

Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
01/18/2022	713	2171	1179.0236 (583-6.6USCON2)
RULE			

APPLICANTS

WalkMe LTD., Tel Aviv, ISRAEL

INVENTORS

Nir NAHUM, Tel Aviv, ISRAEL

Shlomi SASSON, Givat Zeev, ISRAEL

CONTINUING DATA

This application is a CON of 17026305 09/21/2020 PAT 11258732

17026305 is a CON of 16358467 03/19/2019 PAT 10819664

16358467 is a CON of PCT/IL2018/051168 11/04/2018

PCT/IL2018/051168 has PRO of 62581714 11/05/2017

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

01/26/2022

STATE OR COUNTRY

ISRAEL

ADDRESS

Koffsky Schwalb LLC

500 Seventh Avenue

8th Floor

New York, NY 10018

UNITED STATES

FILING FEE RECEIVED

\$1,820



UNITED STATES
PATENT AND TRADEMARK OFFICE

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

ISSUE FEE TRANSMITTAL FORM

APPLICATION #	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET #
17577530	01/18/2022	Nir NAHUM	1179.0236 (583-6.6USCON2)

Title of Invention

Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot

Application Information

APPLICATION TYPE	Nonprovisional Application under 35 USC 111(a)	DATE DUE	03/09/2023
CONFIRMATION #	5885	ISSUE FEE DUE	\$ 1200
EXAMINER	MAHELET SHIBEROU	PUBLICATION DUE	\$ 0
GROUP ART UNIT	2171	TOTAL FEES DUE	\$1200
CLASS - SUBCLASS	713/175000	PREV. PAID FEE	\$ 0
ENTITY STATUS	Regular Undiscounted		

1. CHANGE OF CORRESPONDENCE ADDRESS AND/OR INDICATION OF FEE ADDRESS (37 CFR 1.33 & 1.363)

Correspondence Address

Maintenance Fee Address

CURRENT ADDRESS

CURRENT ADDRESS



Change of correspondence address requested, system generated AIA/122-PC form attached



Fee address indication requested, system generated SB/47-PC form attached

2. ENTITY STATUS

Change in Entity Status

NEW STATUS

3. THE FOLLOWING FEES ARE SUBMITTED



Issue Fee



Publication Fee



Advance Order - # of copies:

4. FEE AUTHORIZATION



I authorize USPTO to apply my previously paid issue fee to the current fees due



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5. FIRM AND/OR ATTORNEY NAMES TO BE PRINTED

NOTE: If no name is listed, no name will be printed

For printing on the patent front page, list to be displayed as entered

6. ASSIGNEE NAME(S) AND RESIDENCE DATA TO BE PRINTED

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.

WALKME LTD.

TEL AVIV, ISRAEL

Corporation

Signature

I certify, in accordance with 37 CFR 1.4(d)(4) that I am an attorney or agent registered to practice before the Patent and Trademark Office who has filed and has been granted power of attorney in this application. I also

certify that this Fee(s) Transmittal form is being transmitted to the USPTO via Patent Center on the date indicated below.

Signature	Name	Registration #	Date
/Mark I. Koffsky/	Mark Koffsky	41906	12/13/2022



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Alexandria, VA 22313 - 1450
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
17/577,530

RECEIPT DATE / TIME
12/13/2022 08:45:09 AM ET

ATTORNEY DOCKET #
1179.0236 (583-6.6USCON2)

Title of Invention

Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot

Application Information

APPLICATION TYPE Utility - Nonprovisional Application
under 35 USC 111(a)

PATENT # -

CONFIRMATION # 5885

FILED BY Mark Koffsky

PATENT CENTER # 61289768

FILING DATE 01/18/2022

CUSTOMER # 106928

FIRST NAMED INVENTOR Nir NAHUM

CORRESPONDENCE ADDRESS -

AUTHORIZED BY -

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
web85b.pdf	3	Issue Fee Payment (PTO-85B)	62 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
web85b.pdf	DA1DAF1CA236C4180C3A3FA785CDC6DF22551E6FD265474C 98A92CB8CC8C4DC65190219F8B248EB98A33B7CBD486AA56 9EE42B7F58A65D01B9429A8B75D587E4

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

described in MPEP 503.

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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



**UNITED STATES
PATENT AND TRADEMARK OFFICE**

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ELECTRONIC PAYMENT RECEIPT

APPLICATION # 17/577,530	RECEIPT DATE / TIME 12/13/2022 08:45:09 AM ET	ATTORNEY DOCKET # 1179.0236 (583-6.6USCON2)
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Title of Invention

Invoking an Automatic Process in a Web-Based Target System Using a Chat-Bot

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	5385	FILED BY	Mark Koffsky
PATENT CENTER #	61289768	AUTHORIZED BY	-
CUSTOMER #	106928	FILING DATE	01/18/2022
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Nir NAHUM

Payment Information

PAYMENT METHOD CARD / 4004	PAYMENT TRANSACTION ID E2022BC945242030	PAYMENT AUTHORIZED BY Mark Koffsky
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FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
1501	UTILITY ISSUE FEE	1200.00	1	1200.00
TOTAL AMOUNT:				\$1,200.00

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New Applications Under 35 U.S.C. 111

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

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

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage

submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

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



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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/577,530	01/17/2023	11558317	1179.0236 (583-6.6USCON2)	5885

106928 7590 12/28/2022
Koffsky Schwalb LLC
500 Seventh Avenue
8th Floor
New York, NY 10018

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 Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

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