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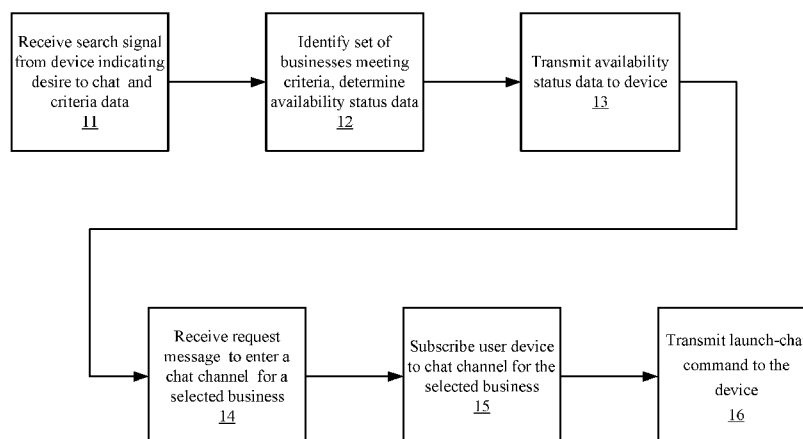
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(54) Title: APPARATUS AND METHOD FOR MANAGING USER CHAT EXPERIENCES WITH BUSINESSES



(57) Abstract: A computer-implemented method of managing a chat experience of a user desiring to chat with a selected one of a plurality of businesses or chat hosts utilizes in various aspects a chat management server running computer processes for communicating with user devices. In another aspect, a computer-implemented method of providing a chat experience to a user having a user device and desiring to chat with a selected one of a plurality of businesses utilizes computer processes running on the user device. Corresponding embodiments similarly provide an apparatus performing any of the foregoing methods. Other corresponding embodiments similarly provide a computer readable medium storing instructions, which when loaded into a computer, perform processes corresponding to any of the foregoing methods.



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Apparatus and Method for Managing User Chat Experiences with Businesses

Related Applications

[0001] The present application claims priority to U.S. Application No. 13/434,512, filed March 29, 2012 and entitled “Apparatus and Method for Managing User Chat Experiences with Businesses,” and U.S. Application No. 13/799,825, filed March 13, 2013 and entitled “Apparatus and Method for Managing User Chat Experiences with Businesses.”

Technical Field

[0002] The present invention relates to electronic messaging, and more particularly to apparatus and methods for managing user chat experiences with businesses.

Background Art

[0003] It is known in the prior art to make a chat session available to a user having a computer open to a web page of a company so that the user may contact the company about its goods or services. See for example, US patent 7,861,176. Other kinds of chat servers host video chat and location-based chat among individual users. See for example, US patent 7,379,087 and published application number 2003/0037110.

Summary of the Embodiments

[0004] In a first embodiment of the invention there is provided a computer-implemented method of managing a chat experience of a user desiring to chat with a selected one of a plurality of businesses. the method utilizes a chat management server running computer processes, and these processes include:

receiving a search signal over a first network from a device, under control of the user, to indicate that the user device is running a process configured to support a managed chat session and including data characterizing criteria for a business with which the user seeks to chat;

responsive to the search signal, identifying a set of businesses meeting the criteria, determining availability status data for each business in the set of businesses, and transmitting, to the device, availability status data for the set of businesses for display on the user's device;

receiving over the first network a request message originated by the user on the device to enter a chat channel established for a selected one of the set of businesses; and

responsive to the request message, subscribing the user device to the chat channel for the selected one of the set of businesses, and transmitting to the device, over the first network, a launch-chat command.

[0005] In a related embodiment, the computer processes further include associating a duration for the channel, and if the chat channel has not been previously closed by a party to the chat, then closing the chat channel effective as of the end of the duration. Optionally, the duration is established according to a user-specified default.

[0006] In another related embodiment, the request message originated by the user on the device to enter the chat channel has been issued responsive to a user selection, made graphically on a display of the device, of the set of businesses. Optionally, the data characterizing criteria for a business with which the user seeks to chat have resulted from a search initiated by the user. As a further option, the search has resulted by user selection of one of a set of pre-defined categories. Alternatively, the data characterizing criteria for a business with which the user seeks to chat have resulted from selection by the user to cause display of favorites saved by the user. Also alternatively, the data characterizing criteria for a business with which the user seeks to chat have resulted from selection by the user to cause display of businesses recently accessed by the user for purposes of chat.

[0007] In another related embodiment, the computer processes further include, responsive to the request message, determining a pattern, for the chat channel, for message routing to seats of the selected business based on availability status data for the selected business and business rules provided by the selected business. Optionally, the pattern includes routing all messages from the user to the same seat. Optionally, the pattern includes routing successive messages from the user to the next available seat that is not busy. Optionally, the pattern includes routing all messages from the user to a plurality of seats

simultaneously. In a further related embodiment, (i) business rules provided by the selected business specify a plurality of seat types, (ii) the availability data includes information enabling a user to make a selection corresponding to a specific seat type, (iii) the request message includes data indicative of the seat type corresponding to the selection made by the user, and (iv) subscribing the user device to the chat channel includes subscribing the user device in a manner consistent with the specific seat type.

[0008] In another related embodiment, the computer processes further include receiving, in the search signal, data indicating an approximate location of the device and transmitting availability data includes transmitting availability data for businesses based, at least in part, on the approximate location.

[0009] In another related embodiment, the computer processes further include storing chat content of the chat channel and archiving the content in a chat database in association with an identifier for the selected business and for the user. Optionally, the computer processes further include storing, in the chat database, chat metadata with the chat content. Optionally, the computer processes further include storing, in the chat database, data relating to an unsuccessful attempt by the user to initiate chat with one of the plurality of businesses. Optionally, the computer processes further include running a computerized analysis of the chat database, to identify chat performance measurements, for any given business, including at least one of : (a) what fraction of user requests to chat were followed by a response; (b) average time to first response per request; (c) average time to response, after the first response, per request; (d) average number of responses provided in a given chat session; and (e) what percentage of chat responses were made within a specified period of time.

[0010] In another related embodiment, identifying the set of businesses meeting the criteria includes determining from stored data whether the user is authorized by any given business meeting the criteria, and if so including the given business in the set of businesses and otherwise excluding the given business from the set of businesses.

[0011] In another related embodiment, the computer processes further include, prior to subscribing the user device to the chat channel for the selected one of the set of businesses, determining whether the selected one of the set of businesses requires further authorization by the business to enable the user to chat, and, if so, (i) transmitting to the device, over the first network, data establishing a form to be displayed on the device, configured to receive

user-supplied information establishing entitlement of the user to chat, (ii) receiving from the device such information, (iii) processing such information, and only if authorization is determined as a result of such information, allowing the subscribing of the user device to the chat channel.

[0012] In another related embodiment, the computer processes further include prior to receiving a search signal, receiving over the first network from the user's device a request and credentials for authentication of the user, determining if the credentials are valid, and if so, logging in the user device. Optionally, the user has at least one additional device, and the method further includes:

receiving over a second network from the at least one additional device a further request and further credentials for authentication of the user, determining if the further credentials are valid, and if so, logging in the at least one additional user device; and

subscribing the at least one additional device to the chat channel.

[0013] Optionally, the computer processes further include repeating each of the foregoing processes at least once so as to subscribe the user device to at least one additional chat channel for another business selected by the user, so that the user device may be simultaneously subscribed to a plurality of chat channels. Optionally, when the user has at least one additional device, the method further includes receiving over a second network from the at least one additional device a further request and further credentials for authentication of the user, determining if the further credentials are valid, and if so, logging in the at least one additional user device; and subscribing the at least one additional device to the plurality of chat channels.

[0014] In another related embodiment, the computer processes further include receiving a forward-chat message from the user over the first network; and responsive to the forward-chat message, forwarding to the user at a secondary electronic destination, in accordance with user-established settings, chat messages addressed to the user from the selected one of the set of businesses and forwarding to the selected one of the set of businesses each message from the user originating from the secondary electronic destination in response to a forwarded message from the selected one of the set of businesses. Optionally, the user-established settings specify forwarding to occur at all times when

forwarding is in effect. Alternatively, the user-established settings specify forwarding to occur only when the user device is not in communication with the server.

[0015] In another related embodiment, the computer processes further include, upon subscribing the user device to the chat channel, identifying the user in accordance with criteria established by the user. Optionally, the criteria are global and apply to all businesses with which the user engages in chat. Alternatively, the criteria are specified by the user as applicable to the selected one of the businesses.

[0016] In yet another related embodiment, the computer processes further include receiving from a business user, in one of the seats, of the selected business, that is subscribed to the chat channel, a transfer request message to transfer the user to chat with a different seat of the selected business; and responsive to the transfer request message, transferring the user device to chat with the different seat of the selected business. Alternatively, the computer processes further include receiving from a business user, in one of the seats, of the selected business, that is subscribed to the chat channel, a join request message to add to the chat channel at least one additional business user from the selected business; and responsive to the join request message, subscribing to the chat channel the at least one additional business user.

[0017] In another related embodiment, the computer processes further include running an installed application of the selected business, in accordance with business rules specified by the selected business, after the user has been subscribed to the chat channel. Optionally, running the installed application occurs automatically immediately after the user has been subscribed to the chat channel. Alternatively, running the installed application occurs when a business user of the selected business manually invokes the installed application. Alternatively, running the installed application occurs when triggered automatically by a response by the user in the course of chat.

[0018] In another embodiment of the present invention there is provided a computer-implemented method of managing a chat experience of a business user desiring to chat with a selected one of a plurality of other users. the method utilizes a chat management server running computer processes that include:

receiving a search signal over a first network from a device, under control of the business user, to indicate that the user device is running a process configured to

support a managed chat session and including data characterizing criteria for another user with whom the business user seeks to chat;

responsive to the search signal, identifying a set of users meeting the criteria, and for each user in the set of users, determining availability status, and transmitting, to the device, availability status data for the set of users for display on the business user's device;

receiving over the first network a request message originated by the business user on the device to enter a chat channel established for a selected one of the set of users; and

responsive to the request message, subscribing the user device to the chat channel for the selected one of the set of users, and transmitting to the device, over the first network, a launch-chat command.

[0019] In a related embodiment, identifying the set of users meeting the criteria includes excluding from the set any user who has not authorized receiving chat from the business of the business user, so that such user is not displayed on the business user's device. In a further related embodiment, of managing a chat experience of a given business user desiring to chat with a selected one of a plurality of other business users in the same business as the given business user, the set of users corresponds to at least some of other business users in the same business. Optionally, the data characterizing criteria for another user with whom the business user seeks to chat have resulted from a search initiated by the business user. Optionally, the search has resulted by business user selection of one of a set of pre-defined categories. Alternatively, the data characterizing criteria for a another user with whom the business user seeks to chat have resulted from selection by the business user to cause display of favorites saved by the business user. Alternatively, the data characterizing criteria for a another user with whom the business user seeks to chat have resulted from selection by the business user to cause display of users recently accessed by the business user for purposes of chat.

[0020] In a further related embodiment, the computer processes further include associating a duration for the channel, and if the chat channel has not been previously closed by a party to the chat, then closing the chat channel effective as of the end of the duration.

[0021] In a further related embodiment, the computer processes further include prior to receiving a search signal, receiving over the first network from the business user's device a request and credentials for authentication of the business user, determining if the credentials are valid, and if so, logging in the business user device. In a further related embodiment, the business user has at least one additional device, and the method further includes receiving over a second network from the at least one additional device a further request and further credentials for authentication of the business user, determining if the further credentials are valid, and if so, logging in the at least one additional device; and subscribing the at least one additional device to the chat channel. As a further option the computer processes further include repeating each of the foregoing processes at least once so as to subscribe the business user device to at least one additional chat channel for another user selected by the business user, so that the business user device may be simultaneously subscribed to a plurality of chat channels.

[0022] In a further related embodiment, the user has at least one additional device, and the method further includes receiving over a second network from the at least one additional device a further request and further credentials for authentication of the business user, determining if the further credentials are valid, and if so, logging in the at least one additional business user device; and subscribing the at least one additional device to the plurality of chat channels.

[0023] Corresponding embodiments similarly provide an apparatus performing any of the foregoing methods. Other corresponding embodiments similarly provide a computer readable medium storing instructions, which when loaded into a computer, perform processes corresponding to any of the foregoing methods.

[0024] In another embodiment, the invention provides a computer-implemented method of providing a chat experience to a user having a user device and desiring to chat with a selected one of a plurality of businesses. In this embodiment, the method utilizes computer processes running on the user device. The processes include:

transmitting to a chat management server a search signal, over a first network, to indicate that the user device is running a process configured to support a managed chat session and including data characterizing criteria for a business with which the user seeks to chat;

receiving, from the chat management server, over the first network, responsive to the search signal, availability status data for each business in a set of businesses meeting the criteria;

displaying the availability status data on the user's device;
responsive to a user selection of one of the set of businesses, transmitting over the first network, to the chat management server, a request message to enter a chat channel established for the selected one of the set of businesses;

receiving from the chat management server, over the first network, responsive to the request message, a launch-chat command, indicating that the user device has been subscribed to a chat channel for the selected one of the set of businesses, and transmitting to the device, over the first network; and

responsive to the launch-chat command, opening a chat display box on the user device to receive chat initiated by the user that is directed to the selected business.

[0025] In another embodiment, the invention provides a non-transitory computer readable medium encoded with instructions which, when loaded into a user device, establish processes for providing a chat experience to a user having the user device and desiring to chat with a selected one of a plurality of businesses. The processes include:

transmitting to a chat management server a search signal, over a first network, to indicate that the user device is running a process configured to support a managed chat session and including data characterizing criteria for a business with which the user seeks to chat;

receiving, from the chat management server, over the first network, responsive to the search signal, availability status data for each business in a set of businesses meeting the criteria;

displaying the availability status data on the user's device;
responsive to a user selection of one of the set of businesses, transmitting over the first network, to the chat management server, a request message to enter a chat channel established for the selected one of the set of businesses;

receiving from the chat management server, over the first network, responsive to the request message, a launch-chat command, indicating that the user device has

been subscribed to a chat channel for the selected one of the set of businesses, and transmitting to the device, over the first network; and

responsive to the launch-chat command, opening a chat display box on the user device to receive chat initiated by the user that is directed to the selected business.

[0026] In a first embodiment of the invention there is provided a computer-implemented method of managing a chat experience of a user desiring to chat with a selected one of a plurality of businesses. The method utilizes a chat management server running computer processes, and these processes include:

receiving a search signal over a first network from a device, under control of the user, to indicate that the user device is running a process configured to support a managed chat session and including data characterizing criteria for a business or chat host with which the user seeks to chat;

responsive to the search signal, identifying a set of businesses or chat hosts meeting the criteria, determining availability status data for each business or chat host in the set of businesses, and transmitting, to the device, availability status data for the set of businesses or chat hosts for display on the user's device;

receiving over the first network a request message originated by the user on the device to enter a chat channel established for a selected one of the set of businesses or chat hosts; and

responsive to the request message, subscribing the user device to the chat channel for the selected one of the set of businesses, and transmitting to the device, over the first network, a launch-chat command to initiate a chat session over the chat channel.

[0027] In a related embodiment, the computer processes further include associating a duration for the channel, and if the chat channel has not been previously closed by a party to the chat, then closing the chat channel effective as of the end of the duration. Optionally, the duration is established according to a user-specified default.

[0028] In another related embodiment, the request message originated by the user on the device to enter the chat channel has been issued responsive to a user selection, made graphically on a display of the device, of the set of businesses or chat hosts. Optionally, the

data characterizing criteria for a business or chat hosts with which the user seeks to chat have resulted from a search initiated by the user. As a further option, the search has resulted by user selection of one of a set of pre-defined categories. Alternatively, the data characterizing criteria for a business or chat host with which the user seeks to chat have resulted from selection by the user to cause display of favorites saved by the user. Also alternatively, the data characterizing criteria for a business or chat host with which the user seeks to chat have resulted from selection by the user to cause display of businesses or chat hosts recently accessed by the user for purposes of chat.

[0029] In another related embodiment, the computer processes further include, responsive to the request message, determining a pattern, for the chat channel, for message routing to seats of the selected business based on availability status data for the selected business and business rules provided by the selected business. Optionally, the pattern includes routing all messages from the user to the same seat. Optionally, the pattern includes routing successive messages from the user to the next available seat that is not busy. Optionally, the pattern includes routing all messages from the user to a plurality of seats simultaneously. In a further related embodiment, (i) business rules provided by the selected business specify a plurality of seat types, (ii) the availability data includes information enabling a user to make a selection corresponding to a specific seat type, (iii) the request message includes data indicative of the seat type corresponding to the selection made by the user, and (iv) subscribing the user device to the chat channel includes subscribing the user device in a manner consistent with the specific seat type.

[0030] In another related embodiment, the computer processes further include receiving, in the search signal, data indicating an approximate location of the device and transmitting availability data includes transmitting availability data for businesses based, at least in part, on the approximate location.

[0031] In another related embodiment, the computer processes further include storing chat content of the chat channel and archiving the content in a chat database in association with an identifier for the selected business or chat host and for the user. Optionally, the computer processes further include storing, in the chat database, chat metadata with the chat content. Optionally, the computer processes further include storing, in the chat database, data relating to an unsuccessful attempt by the user to initiate chat with one of the plurality of

businesses or chat hosts. Optionally, the computer processes further include running a computerized analysis of the chat database, to identify chat performance measurements, for any given business or chat host, including at least one of : (a) what fraction of user requests to chat were followed by a response; (b) average time to first response per request; (c) average time to response, after the first response, per request; (d) average number of responses provided in a given chat session; and (e) what percentage of chat responses were made within a specified period of time.

[0032] In another related embodiment, identifying the set of businesses or chat hosts meeting the criteria includes determining from stored data whether the user is authorized by any given business or chat host meeting the criteria, and if so including the given business or chat host in the set of businesses chat hosts and otherwise excluding the given business or chat host from the set of businesses or chat hosts.

[0033] In another related embodiment, wherein the selected one of the set of businesses or chat hosts is a selected business, the computer processes further include, prior to subscribing the user device to the chat channel for the selected one of the set of businesses, determining whether the selected one of the set of businesses requires further authorization by the business to enable the user to chat, and, if so, (i) transmitting to the device, over the first network, data establishing a form to be displayed on the device, configured to receive user-supplied information establishing entitlement of the user to chat, (ii) receiving from the device such information, (iii) processing such information, and only if authorization is determined as a result of such information, allowing the subscribing of the user device to the chat channel.

[0034] In another related embodiment, the computer processes further include prior to receiving a search signal, receiving over the first network from the user's device a request and credentials for authentication of the user, determining if the credentials are valid, and if so, logging in the user device. Optionally, the user has at least one additional device, and the method further includes:

receiving over a second network from the at least one additional device a further request and further credentials for authentication of the user, determining if the further credentials are valid, and if so, logging in the at least one additional user device; and

subscribing the at least one additional device to the chat channel.

[0035] Optionally, the computer processes further include repeating each of the foregoing processes at least once so as to subscribe the user device to at least one additional chat channel for another business selected by the user, so that the user device may be simultaneously subscribed to a plurality of chat channels. Optionally, when the user has at least one additional device, the method further includes receiving over a second network from the at least one additional device a further request and further credentials for authentication of the user, determining if the further credentials are valid, and if so, logging in the at least one additional user device; and subscribing the at least one additional device to the plurality of chat channels.

[0036] In another related embodiment, the computer processes further include receiving a forward-chat message from the user over the first network; and responsive to the forward-chat message, forwarding to the user at a secondary electronic destination, in accordance with user-established settings, chat messages addressed to the user from the selected one of the set of businesses or chat hosts and forwarding to the selected one of the set of businesses or chat hosts each message from the user originating from the secondary electronic destination in response to a forwarded message from the selected one of the set of businesses or chat hosts. Optionally, the user-established settings specify forwarding to occur at all times when forwarding is in effect. Alternatively, the user-established settings specify forwarding to occur only when the user device is not in communication with the server.

[0037] In another related embodiment, the computer processes further include, upon subscribing the user device to the chat channel, identifying the user in accordance with criteria established by the user. Optionally, the criteria are global and apply to all businesses with which the user engages in chat. Alternatively, the criteria are specified by the user as applicable to the selected one of the businesses.

[0038] In yet another related embodiment, the computer processes further include receiving from a business user, in one of the seats, of the selected business, that is subscribed to the chat channel, a transfer request message to transfer the user to chat with a different seat of the selected business; and responsive to the transfer request message, transferring the user device to chat with the different seat of the selected business. Alternatively, the computer processes further include receiving from a business user, in one of the seats, of the selected

business, that is subscribed to the chat channel, a join request message to add to the chat channel at least one additional business user from the selected business; and responsive to the join request message, subscribing to the chat channel the at least one additional business user.

[0039] In another related embodiment, the computer processes further include running an installed application of the selected business, in accordance with business rules specified by the selected business, after the user has been subscribed to the chat channel. Optionally, running the installed application occurs automatically immediately after the user has been subscribed to the chat channel. Alternatively, running the installed application occurs when a business user of the selected business manually invokes the installed application. Alternatively, running the installed application occurs when triggered automatically by a response by the user in the course of chat.

[0040] In another embodiment of the present invention there is provided a computer-implemented method of managing a chat experience of a business user desiring to chat with a selected one of a plurality of other users. the method utilizes a chat management server running computer processes that include:

- receiving a search signal over a first network from a device, under control of the business user, to indicate that the user device is running a process configured to support a managed chat session and including data characterizing criteria for another user with whom the business user seeks to chat;

- responsive to the search signal, identifying a set of users meeting the criteria, and for each user in the set of users, determining availability status, and transmitting, to the device, availability status data for the set of users for display on the business user's device;

- receiving over the first network a request message originated by the business user on the device to enter a chat channel established for a selected one of the set of users; and

- responsive to the request message, subscribing the user device to the chat channel for the selected one of the set of users, and transmitting to the device, over the first network, a launch-chat command.

[0041] In a related embodiment, identifying the set of users meeting the criteria includes excluding from the set any user who has not authorized receiving chat from the business of the business user, so that such user is not displayed on the business user's device. In a further related embodiment, of managing a chat experience of a given business user desiring to chat with a selected one of a plurality of other business users in the same business as the given business user, the set of users corresponds to at least some of other business users in the same business. Optionally, the data characterizing criteria for another user with whom the business user seeks to chat have resulted from a search initiated by the business user. Optionally, the search has resulted by business user selection of one of a set of pre-defined categories. Alternatively, the data characterizing criteria for a another user with whom the business user seeks to chat have resulted from selection by the business user to cause display of favorites saved by the business user. Alternatively, the data characterizing criteria for a another user with whom the business user seeks to chat have resulted from selection by the business user to cause display of users recently accessed by the business user for purposes of chat.

[0042] In a further related embodiment, the computer processes further include associating a duration for the channel, and if the chat channel has not been previously closed by a party to the chat, then closing the chat channel effective as of the end of the duration.

[0043] In a further related embodiment, the computer processes further include prior to receiving a search signal, receiving over the first network from the business user's device a request and credentials for authentication of the business user, determining if the credentials are valid, and if so, logging in the business user device. In a further related embodiment, the business user has at least one additional device, and the method further includes receiving over a second network from the at least one additional device a further request and further credentials for authentication of the business user, determining if the further credentials are valid, and if so, logging in the at least one additional device; and subscribing the at least one additional device to the chat channel. As a further option the computer processes further include repeating each of the foregoing processes at least once so as to subscribe the business user device to at least one additional chat channel for another user selected by the business user, so that the business user device may be simultaneously subscribed to a plurality of chat channels.

[0044] In a further related embodiment, the user has at least one additional device, and the method further includes receiving over a second network from the at least one additional device a further request and further credentials for authentication of the business user, determining if the further credentials are valid, and if so, logging in the at least one additional business user device; and subscribing the at least one additional device to the plurality of chat channels.

[0045] Corresponding embodiments similarly provide an apparatus performing any of the foregoing methods. Other corresponding embodiments similarly provide a computer readable medium storing instructions, which when loaded into a computer, perform processes corresponding to any of the foregoing methods.

[0046] In another embodiment, the invention provides a non-transitory computer readable medium encoded with instructions which, when loaded into a user device, establish processes for providing a chat experience to a user having the user device and desiring to chat with a selected one of a plurality of businesses. The processes include:

- transmitting to a chat management server a search signal, over a first network, to indicate that the user device is running a process configured to support a managed chat session and including data characterizing criteria for a business with which the user seeks to chat;

- receiving, from the chat management server, over the first network, responsive to the search signal, availability status data for each business in a set of businesses meeting the criteria;

- displaying the availability status data on the user's device;
- responsive to a user selection of one of the set of businesses, transmitting over the first network, to the chat management server, a request message to enter a chat channel established for the selected one of the set of businesses;

- receiving from the chat management server, over the first network, responsive to the request message, a launch-chat command, indicating that the user device has been subscribed to a chat channel for the selected one of the set of businesses, and transmitting to the device, over the first network; and

responsive to the launch-chat command, opening a chat display box on the user device to receive chat initiated by the user that is directed to the selected business.

Brief Description of the Drawings

[0047] The foregoing features of embodiments will be more readily understood by reference to the following detailed description, taken with reference to the accompanying drawings, in which:

[0048] Fig. 1 is a block diagram of processes implemented to subscribe a user to a chat channel with a business in accordance with an embodiment of the present invention;

[0049] Fig. 2 is a schematic representation of event-driven architecture as implemented in embodiments of the present invention to provide asynchronous communication in chat sessions;

[0050] Fig. 3 is a block diagram of processes implemented in accordance with an embodiment of the present invention to assign a user device to a chat channel for a selected business and seat type;

[0051] Fig. 4 is a block diagram of processes implemented in accordance with an embodiment of the present invention to establish availability data for a business that can be used as part of availability data supplied to a user device;

[0052] Fig. 5 is a block diagram of processes implemented in accordance with an embodiment of the present invention to provide messaging services over various user devices;

[0053] Fig. 6 is a block diagram of processes implemented in accordance with an embodiment of the present invention to monitor and to manage chat sessions;

[0054] Fig. 7 is a block diagram of processes implemented in accordance with an embodiment of the present invention to handle circumstances when a business is not available to engage in chat at the time when a user seeks a chat session;

[0055] Fig. 8 is a block diagram of architecture of a system for managing user chat experiences with businesses in accordance with an embodiment of the present invention, showing in particular the communication interface with users and businesses;

[0056] Fig. 9 is a block diagram of architecture of a system for managing user chat experiences with businesses in accordance with an embodiment of the present invention, showing in particular the components implementing business search capability and storage of data relating to users, businesses, chat messages, event logs, and other system information;

[0057] Fig. 10 is a block diagram of architecture of a system for managing user chat experiences with businesses in accordance with an embodiment of the present invention, showing in particular components that implement chat sessions as described herein;

[0058] Fig. 11 is block diagram of software components employed in an embodiment of the present invention for managing user chat experiences with businesses;

[0059] Fig. 12 is a representation of a screen presented to a user to sign up for an account with a system for managing user chat experiences with businesses in accordance with an embodiment of the present invention;

[0060] Fig. 13 is a representation of a screen presented to an existing user to log in to the of Fig. 12;

[0061] Fig. 14 is a representation of a screen presented to the logged-in user of Fig. 13 by which to search for businesses that are available for a chat session;

[0062] Fig. 15 is a representation of a screen presented to the user of Fig. 14 after conducting a search for “pizza”;

[0063] Fig. 16 is a representation of a screen presented to the user of Fig. 14 after conducting a search for “pizza” wherein the results are displayed on a map;

[0064] Fig. 17 is a representation [add launch-chat graphic] of a screen presented to the user of Fig. 16 after selecting the graphic identifying a particular pizza place appearing on the map of Fig. 16;

[0065] Fig. 18 is a representation of a screen presented to the user of Fig. 17 after selecting an option on the screen [to be added] to initiate a chat session;

[0066] Fig. 19 is a representation of a screen presented to the user of Fig. 14 by which to access “favorites”;

[0067] Fig. 20 is a representation of a computer screen displaying a web browser of presented to a logged-in user after running a search for “Burger king”;

[0068] Fig. 21 is a representation of a computer screen presented to the user of Fig. 20 who has selected to launch chat with one of the businesses identified in Fig. 20;

[0069] Fig. 22 is a representation of a computer screen presented to the user of Figs. 20-21 showing the user's chat history with a selected business;

[0070] Fig. 23 is a representation of a computer screen presented to the user of Figs. 20-22 showing the user's account settings;

[0071] Fig. 24 is a representation of a computer screen displaying a web browser presented to a logged-in business user after running a search for "Burger King";

[0072] Fig. 25 Fig. 25 is a representation of a computer screen presented to the business user of Fig. 24 who has made a selection to claim one of the businesses identified in Fig. 24;

[0073] Fig. 26 is a representation of a computer screen presented to the business user of Figs. 24-25 who has made a selection to claim the business by using the phone verification method;

[0074] Fig. 27 is a representation of a computer screen presented to the business user of Figs. 24-25 who has made a selection to claim the business by using the mail verification method;

[0075] Fig. 28 is a representation of a computer screen presented to the business user of Figs. 24-27 after completing a validation process;

[0076] Fig. 29 is a representation of a computer screen presented to the business user of Figs. 24-28 who has received one or more chat requests from other users;

[0077] Fig. 30 is a representation of a computer screen presented to the business user of Figs. 24-29 showing the user's chat history with a selected user;

[0078] Fig. 31 is a representation of a computer screen presented to the business user of Figs. 24-30 showing the user's account settings;

[0079] Fig. 32 is a representation of a computer screen presented to the business user of Figs. 24-31 showing the user's business settings;

[0080] Fig. 33 is a representation of a computer screen presented to the business user of Figs. 24-32 showing the user's business settings for managing business locations and locations administrators;

[0081] Fig. 34 is a representation of a computer screen presented to the business user of Figs. 24-33 showing the user's business settings for managing business seats, seats types and routing settings;

[0082] Fig. 35 is a representation of a computer screen presented to the business user of Figs. 24-34 showing the user's business settings for managing a specific business seat, including shifts/availability;

[0083] Fig. 36 is a representation of a computer screen presented to the business user of Figs. 24-34 showing notification settings, namely, chat forwarding by e-mail and SMS;

[0084] Fig. 37 is an exemplary user interface for subscribing to chat services offered through the chat management server;

[0085] Fig. 38 is an exemplary user interface for receiving information to create an account for chat services;

[0086] Fig. 39 is an exemplary user interface for adding and configuring profiles for an account;

[0087] Fig. 40 is an exemplary user interface for creating a chat host profile;

[0088] Fig. 41 is an exemplary user interface for creating a chat channel;

[0089] Figs. 42-44 are exemplary user interfaces for configuring seat operators (also referred to herein as "channel agents") for servicing a chat channel;

[0090] Fig. 45 is an exemplary user interface for managing a chat channel;

[0091] Fig. 46 is an exemplary user interface for searching for a business or event profile;

[0092] Fig. 47 is an exemplary user interface for searching for a chat host profile;

[0093] Fig. 48 is an exemplary user interface that displays a chat host profile to a user of the chat services;

[0094] Fig. 49 is an exemplary user interface that displays a business location profile to a user of the chat services;

[0095] Fig. 50 is an exemplary user interface used by a robot servicing a chat session;

[0096] Fig. 51 is an exemplary user interface used by a robot upon completion of a task for the chat session; and

[0097] Fig. 52 is an exemplary user interface that displays a business profile.

Detailed Description of Specific Embodiments

[0098] Definitions. As used in this description and the accompanying claims, the following terms shall have the meanings indicated, unless the context otherwise requires:

“Chat” means asynchronous interactive digital communication between two endpoints using at least one of text, video, voice, audio, and data files.

“Availability status data” means whether a chat channel has been opened for the business and optionally a rating of the responsiveness of the business, and optionally taking into account business rules established by the business. Availability status data may indicate status options including at least a plurality of the following: “away”, “off”, “busy”, “online”, and “open to receive messages even though not available for immediate chat”. Two parties to chat need not necessarily be online simultaneously in order for a chat channel to be opened for the parties.

A “user” is an individual who has an account with a system in accordance with an embodiment hereof for managing chat.

A “business user” is a “user” as defined herein who is registered as a user affiliated with a “claimed business”.

A “claimed business” is a business that has at least one “business user”.

A “chat channel” is a communication path between a user and a seat in a business selected by the user for engaging in chat. Each claimed business has at least one chat channel, and a claimed business may define a plurality of channels, wherein each channel can be assigned to a category of communication with the business. Moreover, each channel can be provided with a label that is visible to a user, so that the user can select a desired channel of the claimed business over which to engage in chat.

A “chat session” is a specific connection between at least one user who has been subscribed to a chat channel and at least one seat operator of the claimed business.

A “set” includes at least one member.

A “seat” is a chat node that can be staffed by an individual or robot (sometimes herein called an “installed application”) representing a given business in chat. Accordingly, when a user seeks to chat with a business having a plurality of seats, it is possible for the chat management server to subscribe the user to chat with a seat of the business that is not currently engaged in chat (or which currently has sufficient capacity to engage in chat) with

the user (assuming of course that the seat is being occupied by an individual representing the business in chat).

A seat is “busy” if the number of concurrent chat sessions associated with the seat reaches a pre-specified threshold.

A “seat operator” is an individual or robot occupying a seat and representing the claimed business.

A “chat host” is an individual or group for which there has been established a personal account to host chat and for which there is at least one assigned seat.

A “computer process” is the performance of a described function in a computer using computer hardware (such as a processor, field-programmable gate array or other electronic combinatorial logic, or similar device), which may be operating under control of software or firmware or a combination of any of these or operating outside control of any of the foregoing. All or part of the described function may be performed by active or passive electronic components, such as transistors or resistors. In using the term “computer process” we do not necessarily require a schedulable entity, or operation of a computer program or a part thereof, although, in some embodiments, a computer process may be implemented by such a schedulable entity, or operation of a computer program or a part thereof. Furthermore, unless the context otherwise requires, a “process” may be implemented using more than one processor or more than one (single- or multi-processor) computer.

A “user device” is a computer that is used by a user and implemented as a desktop unit, a laptop unit, a tablet, a smartphone, or as any other computer having access to a network.

A “search signal” is a signal originating from a user device to indicate that the user device is running a process configured to support a chat session managed in accordance with embodiments described herein and it includes data characterizing criteria for a business with which the user seeks to chat.

When a device of a particular user is “logged in”, the device is authorized by the chat management server to send communications from, and receive communications to, the particular user.

An “installed application” is an application, provided by a claimed business, that is configured to run, under conditions established by the business, after a user has been

subscribed to a chat channel in order to provide to provide communication functionality, between the business and the user, that is enhanced in comparison to simple chat. The application may be stored on the chat management server or on a server of the business.

“Business administrator” is a role assigned to a business user affiliated with a claimed business in which the business user is empowered by the chat management server to configure chat management settings pertinent to the claimed business.

“Location administrator” is a role assigned to a business user affiliated with a claimed business, as to a specific location of the claimed business, in which the business user is empowered by the chat management server to configure chat management settings pertinent to the claimed business solely with respect to the specific location.

“Business operator” is a role assigned to a business user affiliated with a claimed business in which the business user is not empowered by the chat management server to configure chat management settings for any other business user.

“Chat metadata” is data characterizing chat activity on the chat management server other than the specific content of the chat itself.

“RESTful” a set of architectural principles that govern operation of an application programming interface (API) for the chat management server described herein. These principles define structures that pertain to communication between clients and servers and are applicable, among other things, to how resource states are addressed and transferred over HTTP by a wide range of clients written in different languages.

[0099] Fig. 1 is a block diagram of processes implemented to subscribe a user to a chat channel with a business in accordance with an embodiment of the present invention. The processes are carried out on a chat management server. In process 11, the server receives a search signal over a first network from a device, under control of the user, to indicate that the user device is running a process configured to support a managed chat session. The search signal includes data characterizing criteria for a business with which the user seeks to chat.

[00100] In process 12 of Fig. 1, responsive to the search signal, the server identifies a set of businesses meeting the criteria, and for each business in the set of businesses, the server determines availability status data for each location. In process 13, the server transmits, to the device, availability status data for the set of businesses for display on the user’s device. In process 14 of Fig. 1, the server receives over the first network a request

message originated by the user on the device to enter a chat channel established for a selected one of the set of businesses. In process 15, responsive to the request message, the server subscribes the user device to the chat channel for the selected one of the set of businesses, and in process 16, the server transmits to the device, over the first network, a launch-chat command.

[00101] As we show in further detail below, although the processes have been described in connection with a single business with which the user of the device wishes to chat, embodiments herein support chatting of the user with a plurality of businesses. Also, although the processes have been described in connection with a single user device, embodiments herein support making chat history, and further chat, available to the user simultaneously on a plurality of devices. Of course, the processes illustrated with respect to a given user can be replicated with any number of other users who would use their own devices for engaging in chat with businesses of their own selection.

[00102] Fig. 2 is a schematic representation of event-driven architecture as implemented in embodiments of the present invention to provide asynchronous communication in chat sessions. Item 21 is a typical device of a user that makes a message post to the chat management server 22. The device 21 is subscribed to the same chat channel as the devices 23, 24, and 25 of other users. On receiving the message post from device 21, the server notifies the other devices subscribed to the same chat channel of the message, and so sends the notification to devices 23, 24, and 25. The event-driven architecture employed herein has the benefit of simplicity and scalability, while eliminate needless traffic associated with polling and other techniques used in the absence of event-driven architecture.

[00103] Fig. 3 is a block diagram of processes implemented in accordance with an embodiment of the present invention to assign a user device to a chat channel for a selected business and seat type. In process 31, the server receives a request message from a user device to enter a chat channel for a selected business and seat type. Before we explain the type of a seat, we point out that a business can engage a plurality of individuals to engage in chat with users. Each individual or robot allocated by the business to engage in chat occupies what we here call a “seat”. A seat, more particularly, is a chat node that can be staffed by an individual or a robot representing the business in chat. Accordingly, when a user seeks to chat with a business having a plurality of seats, it is possible for the chat

management server to subscribe the user to chat with a seat of the business that is not currently engaged in chat (or which currently has sufficient capacity to engage in chat) with the user (assuming of course that the seat is being occupied by an individual representing the business in chat).

[00104] In various embodiments of the present invention, when a user seeks to enter into chat with a business, the business may itself have established a structure for handling chat of various different types. For example, the business may assign one set of seats to handling chat relating to product returns, another set of seats to handling technical questions concerning product usage, and another set of seats to handle order inquiries. Each set of seats is a different “type” of seat. Each different type of seat we call in this description and in the accompanying claims a “channel”. Embodiments of the present invention therefore accommodate a plurality of seat types (that is, a plurality of channels) that can be assigned and configured by the business (namely, by the “business administrator”) according to its own needs. Moreover, the user need not be presented with a monolithic icon representing the entire business for purposes of chat. Instead, the business may choose to have the user experience a different icon for each channel—in other words, the user may press one icon to chat with the business about a product return, another icon to chat with the business about technical questions concerning product usage, and yet another icon to chat with the business about an order inquiry. Moreover, when a user seeks to review chat history (discussed below, for example, in connection with Fig. 22), the chat history will reflect the user’s chat experience for the channel (as opposed to simply chat with a given business operator), and the chat history will also show the name of the business operator in each chat session.

[00105] Returning now to Fig. 3, in process 31, the server receives a request message from a user device to enter a chat channel for a selected business and a seat type selected by the user. In process 32, responsive to the request message, the server determines the logical status for each seat operator, that is, determines whether an individual representing the business is currently occupying each seat. In process 33, the server determines physical availability status and device status for the user’s device. In process 34, the server selects one operator from a list of available operators, using a suitable algorithm,

such as round-robin or first-come-first served. If an operator is available, then in process 35, the server subscribes the user device to a chat channel for the selected business and the user.

[00106] Fig. 4 is a block diagram of processes implemented in accordance with an embodiment of the present invention to establish availability data for a business that can be used as part of availability data supplied to a user device. In process 41, the server receives a request message from a user device to determine availability for a selected business and seat type. The logical processes carried out by the chat management server have as a goal to notify the user if a selected business and seat type are available to engage in chat with the user. Accordingly, in process 42, responsive to the request message, the server determines if for the selected business and seat type there is at least one seat operator with status online. In process 43, the server compares seat capacity (maximum number of allowed chats per seat) and current number of opened chat channels for each seat, to determine if a new chat session can be created. In process 44, the server returns the status as available only if these criteria are satisfied. In various embodiments of the present invention, even if an operator is not currently available for the selected business, it may still be possible to subscribe the user to a chat channel, because in such a scenario the user's chat message can be forwarded to the business when an operator does become available. Whether the user is subscribed to a chat channel under such a condition, can be the subject of a configuration setting available to the business administrator.

[00107] Fig. 5 is a block diagram of processes implemented in accordance with an embodiment of the present invention to provide messaging services over various user devices. In process 51, the server receives a message in an active chat session from a device of a user who is engaged in chat in the chat session. In process 52, on receipt of the message, the server updates a cache of the active chat session; this cache stores on a current basis all messages in the chat. In process 53, the server determines what devices subscribed to the active chat session, other than the device issuing the message, are online. In process 54, the server sends the message directly to each online user device that is subscribed to this session (the devices having been identified in process 53) by syncing the user device with the active chat cache. In process 55, if any user has turned on forwarding, then the server forwards the message to any additional devices (determined by settings of the user) for which forwarded

has been enabled by such user. In process 56, the server archives the message by storing it in the chat database.

[00108] Fig. 6 is a block diagram of processes implemented in accordance with an embodiment of the present invention to monitor and to manage chat sessions. In process 61, the chat process begins. At the server level, in process 62 (as explained in further detail in connection Figs. 3 and 4), the chat management server receives the search signal, sends availability data, and subscribes the user device to an active chat session. In process 63, chatting begins. In process 64 (as explained further detail in connection with Fig. 5), each time a message is sent, the chat cache is updated and it is also synchronized with each online device that is subscribed to the chat session. Thus the process 64 is invoked when a user sends a message in process 68 or an operator sends a message in process 67. Similarly, process 64 is invoked every time there is a reconnection in process 616 following a disconnection as a result a connection problem in process 69 or connection closure in process 610 (each time identified by unsuccessful message delivery attempts by the server in process 615 or the passage of too much time to reconnect determined in process 617). If the time for reconnecting determined in process 617 has passed, the server will still attempt to perform forwarding in process 619 as discussed above, for example, in connection with process 55 of Fig. 5. The forwarding is performed for all devices specified in settings established by the user. Forwarding is attempted for all fallback devices in the order specified in accordance with processes 619, 620, and 621. If a duration has been established for expiration of the chat session, then in process 611 a session timer is checked to determine in process 614 whether the session has expired. In the event that it has expired, then in process 621 the chat session is closed and all participants in the chat are notified by updating the chat cache (as described in connection with process 64) and syncing it one last time with all online devices. Process 621 is also invoked if in process 613 the chat session is closed by the user or in process 612 the chat session is closed by the operator.

[00109] Fig. 7 is a block diagram of processes implemented in accordance with an embodiment of the present invention to handle circumstances when a business is not available to engage in chat at the time when a user seeks a chat session. The process starts in item 71. In process 72, the server receives a search signal from the user device and sends availability data in response, all as described in connection with previous figures. We now

address cases wherein the selected business is not available to engage at the time the user seeks to chat with the selected business. In one case, in process 73, the selected business is not a claimed business; in this case, the availability data already sent in process 72 has notified the user that the business is not available for chat. Nevertheless, the user may indicate interest in chatting with the business, in which the server receives and stores data indicating user interest in chat in process 77. This data can be used later in contacting the selected business.

[00110] In another case in Fig. 7, in process 74, the business is currently offline, and the availability data already sent in process 72 has notified the user that the business is currently offline. Depending on settings established by the business, the user may be given an opportunity to select between either having the user's device currently subscribed to a chat channel or being notified when the business has come back online, and in process 78, the server carries out processes consistent with the user's selection. Similarly, in another case, in process 75, the business is currently busy, and the availability data already sent in process 72 has notified the user that the business is currently busy. Depending on settings established by the business, the user may be given an opportunity to select between either having the user's device currently subscribed to a chat channel or being notified when the business has come back online, and in process 79, the server carries out processes consistent with the user's selection.

[00111] Fig. 8 is a block diagram of architecture of a system for managing user chat experiences with businesses in accordance with an embodiment of the present invention, showing in particular the communication interface with users and businesses. Item 810 is a common access layer for all user devices, and gateways to other systems. Through the access layer 810 all chat system features are exposed using an API interface that employs a RESTful architecture. Devices, such as desktop computer 81, which may for example, be an Apple MAC computer or a PC computer running Windows 7, laptop or tablet computer 82 or smartphone 83, connect through their web browser applications, using the HTTP protocol, to the web server 89, which in turn communicates with other components of the system through the API 810. Alternatively, the smartphone 83 may run a special application to communicate directly with the API 810. Chat messages can be alternatively delivered to a variety of electronic devices using different network protocols and appropriate gateways. Some

examples are the SMS Gateway 85, Email Gateway 86, and Jabber Gateway 87. The Core Business Application 813 contains all business logic and manages communication with external systems (such as the items discussed previously in this paragraph) and internal subsystems (such as Search, discussed in connection with Figs. 9, and Chat, discussed in connection with Fig. 10 below). The Business Application 813 may be replicated across multiple servers (represented as items 811 and 812) to support redundancy and scalability.

[00112] Fig. 9 is a block diagram of architecture of a system for managing user chat experiences with businesses in accordance with an embodiment of the present invention, showing in particular the components implementing business search capability and storage of data relating to users, businesses, chat metadata, event logs, and other system information. The Search component provides a common search interface for other components of the system through Search API (Façade) 90. The search logic 92, is implemented using Solr Shards, which is a distributed search application that uses multiple servers for load distribution, scalability and redundancy. Access to data storage is performed through Database layer interface 94 and a caching application (Memcache) 93. Data is distributed across multiple clustered database servers 95 for load distribution, scalability and redundancy.

[00113] Fig. 10 is a block diagram of architecture of a system for managing user chat experiences with businesses in accordance with an embodiment of the present invention, showing in particular components that implement chat sessions as described herein. There architecture here is similar to that described in connection with Fig. 9. The Chat component provides a commons chat interface for other components of the system through Chat API (Façade) 100. The chat logic 102 is implemented using a CometD event routing bus. Several CometD servers are grouped in OortCloud Cluster for load distribution, scalability and redundancy. Access to data storage for chat message archiving is performed through Database layer interface 103. Data is distributed across multiple clustered database servers 104 for load distribution, scalability and redundancy.

[00114] Fig. 11 is block diagram of software components employed in an embodiment of the present invention for managing user chat experiences with businesses. Software components are grouped in four logical groups. Item 111 represents key software components for general management of the whole system, and includes system

administration, internal user management, billing system and reporting system. Item 112 represents key software components that allow business users to manage their businesses, mainly for configuring business profile, managing seats, managing and viewing reports, configuring settings and viewing chat history. Item 113 represents key software components that allow users to manage profiles, favorites and viewing chat history. Item 114 represents key software components used by all users, such as chat system, notification system, search and availability management.

[00115] Fig. 12 is a representation of a screen presented to a user on a mobile user device running a dedicated application by which the user can sign up for an account with a system for managing user chat experiences with businesses in accordance with an embodiment of the present invention. The screen provides places for the user to provide a nickname, and e-mail address, and a password, and includes an icon that is selected to initiate sign-up. In this example, and in Figs. 13-19, a screen of a smartphone is represented, but similar screens may be shown on a web browser of a desktop or laptop computer.

[00116] Fig. 13 is a representation of a screen presented to an existing user on a mobile user device running a dedicated application by which the user can log in to the chat management server. The user supplies the user's e-mail address and password, and then selects the Login icon.

[00117] Fig. 14 is a representation of a screen presented to the logged-in user of Fig. 13 by which to search for businesses that are available for a chat session.

[00118] Fig. 15 is a representation of a screen presented to the user of Fig. 14 after conducting a search for "pizza".

[00119] Fig. 16 is a representation of a screen presented to the user of Fig. 14 after conducting a search for "pizza" wherein the results are displayed on a map to show the user the locations of businesses identified by the search.

[00120] Fig. 17 is a representation of a screen presented to the user of Fig. 16 after selecting the graphic identifying a particular pizza place appearing on the map of Fig. 16. This screen provides detail about the business, including contact information and address. An icon is provided to add the business to Favorites of the user (for chat purposes). Another graphic may be provided by which the user may launch chat with the business.

[00121] Fig. 18 is a representation of a screen presented to the user of Fig. 17 after selecting an option on the screen of Fig. 17 to initiate a chat session. In the present screen, the user has entered text constituting the user's first outbound chat.

[00122] Fig. 19 is a representation of a screen presented to the user of Fig. 14 in which are displayed graphics for businesses the user has saved as Favorites of the user for chat purposes.

[00123] Fig. 20 is a representation of a computer screen displaying a web browser of presented to a logged-in user after running a search for "Burger king". (Although the examples of Figs. 20 through 36 show computer screens displaying a web browser, similar screens can be accessed on a smartphone running a dedicated application or a suitable web browser.)

[00124] Fig. 21 is a representation of a computer screen (displaying a web browser) presented to the user of Fig. 20 who has selected to launch chat with one of the businesses identified in Fig. 20.

[00125] Fig. 22 is a representation of a computer screen presented to the user of Figs. 20-21 showing the user's chat history with a selected business. Here on the left side of the screen the user has selected the chat history of Burger King on a particular date, and the chat pertinent to the selected business is displayed to right.

[00126] Fig. 23 is a representation of a computer screen presented to the user of Figs. 20-22 showing the user's account settings, including primary e-mail address, whether chat should also be replicated by e-mail and SMS messages, as well as other settings indicated in the figure.

[00127] Fig. 24 is a representation of a computer screen displaying a web browser presented to a logged-in business user after running a search for "Burger King". It can be seen in this figure that for each location identified for the business, there is a clickable link on the question "Is this your business?"

[00128] Fig. 25 is a representation of a computer screen presented to the business user of Fig. 24 who has made a selection to claim one of the businesses identified in Fig. 24, by clicking on the on the question "Is this your business?" The result is the screen of this figure, where the location and contact information for the business are provided along with an icon that can be selected to claim the business.

[00129] Fig. 26 is a representation of a computer screen presented to the business user of Figs. 24-25 who has made a selection to claim the business by using the phone verification method. In this embodiment, when an individual has claimed the business, the individual is given a choice of methods by which to validate the claim, and the choice made by the individual is shown here to include a phone call.

[00130] Fig. 27 is a representation of a computer screen presented to the business user of Figs. 24-25 who has made a selection to claim the business by using the mail verification method. This screen is similar to that of Fig. 26, except that the business user has selected mail verification.

[00131] Fig. 28 is a representation of a computer screen presented to the business user of Figs. 24-27 after completing a validation process.

[00132] Fig. 29 is a representation of a computer screen presented to a business user, shown here as Joey's Pizza Shack, who is engaged in chat with a user.

[00133] Fig. 30 is a representation of a computer screen presented to the business user of Figs. 24-29 showing the user's chat history with a selected user. Here in the second column of the screen the user has selected chat history on a particular date with a particular user, and the chat for the selected user and the selected date is shown in the third column of the screen.

[00134] Fig. 31 is a representation of a computer screen presented to the business user of Figs. 24-30 showing the user's account settings, as to forwarding of chat via e-mail and SMS, use of nickname, etc.

[00135] Fig. 32 is a representation of a computer screen presented to the business user of Figs. 24-31 showing the user's business settings. The screen is too large to reproduce in a single figure, but includes credit card payment arrangements, provision for adding seats to the account, keywords that in a user's search that would trigger a listing of the business, business locations, business categories, and business users affiliated with the business.

[00136] Fig. 33 is a representation of a computer screen presented to the business user of Figs. 24-32 showing the user's business settings for managing business locations and locations administrators.

[00137] Fig. 34 is a representation of a computer screen presented to the business user of Figs. 24-33 showing the user's business settings for managing business seats, seats types and routing settings. The first third of the screen shows allocation of seat types. The types here have been designated by the business as "reservations", "support", and "business representative". Each type is given a color and business users for this business have been assigned seat types indicated by the color. The middle third of the screen lists business users available for seat assignments. The bottom third of the screen lets the business user select whether seat operators are assigned chat based on a round-robin or first come, first served basis.

[00138] Fig. 35 is a representation of a computer screen presented to the business user of Figs. 24-34 showing the user's business settings for managing a specific business seat, including shifts/availability.

[00139] Fig. 36 is a representation of a computer screen presented to the business user of Figs. 24-34 showing notification settings. Here the business user has selected to have consumer chat forwarded by e-mail and SMS (therein called "Phone").

[00140] Fig. 37 is an exemplary user interface for subscribing to chat services offered through the chat management server. In some embodiments, when a user installs an application related to chat services on a user device, the application displays this exemplary interface.

[00141] Fig. 38 is an exemplary user interface for receiving information to create an account for chat services. In this embodiment, the interface requires the name of the user and an e-mail address at which the user may be contacted.

[00142] Fig. 39 is an exemplary user interface for adding and configuring profiles for an account. In some embodiments, the user can create a business location profile or a chat host profile, to be described in more detail below. In some embodiments, the user can create a business event profile. The user can input information regarding the event into this profile, such as the name of the event, location, date, and schedule of activities. In some embodiments, the user can associate chat hosts so that the chat host profiles appear with the business event profile. Thus, from the business event profile, event attendees may identify chat hosts by their titles and initiate chat sessions regarding their concerns. In some

embodiments, the user selects a time and date when the chat service will delete the business event profile.

[00143] Fig. 40 is an exemplary user interface for creating a chat host profile. The interface includes a field for receiving the user's profile name (e.g., a "handle"). The interface also includes fields that receive additional contact information for the chat host, such as an address, a telephone number, and/or a website. In some embodiments, the interface includes privacy settings, such as allowing the user to conceal his or her actual name or keep his or her address private. The interface also allows the chat host to associate the profile with a business.

[00144] Fig. 41 is an exemplary user interface for creating a chat channel. In some embodiments, the chat channel is created as part of a chat host profile, although in other embodiments, the chat channel is created as part of a business location profile or a business event profile. The interface includes a field for the channel name, indicating the channel's purpose, and controls for configuring the expiration of the channel.

[00145] Figs. 42-44 are exemplary user interfaces for configuring seat operators (also referred to herein as "channel agents") for servicing a chat channel. The user interfaces include radio buttons to designate an individual chat host, other representatives of the business, or a robot for servicing chat sessions on the channel. Referring to Fig. 42, if the user elects to service the chat channel himself or herself, the user selects the checkbox corresponding to the medium (e.g., SMS, e-mail) through which the user will conduct chat sessions.

[00146] Referring to Fig. 43, if the user opts to designate other representatives for handling chat sessions, the user can input their contact information. In this embodiment, the user inputs the representatives' e-mail addresses, though alternative embodiments may receive other communication handles, such as mobile phone numbers that accept SMS messages. The user may configure the algorithm for selecting the representative to service the chat session. In various embodiments, the user may configure the chat channel to establish new chat sessions on a round robin basis. In some embodiments, the chat channel may broadcast a message regarding a chat request and establish the chat session with the first representative who responds. In further embodiments, the chat channel creates a chat session

connecting the chat requester with all of the representatives, or all of the available representatives.

[00147] Referring to Fig. 44, if the user opts to designate a robot to handle chat sessions, the user can select a robot to configure. In some embodiments, the user can select a robot tailored to an existing service. In some embodiments, the user can configure a customized robot to service chat.

[00148] Fig. 45 is an exemplary user interface for managing a chat channel. The interface can be used for managing the properties and status of created channels. The interface allows the user to publish the link to the channel through social media. In some embodiments, the interface allows the user to embed a widget for the channel in a profile. The interface further allows a user to hide or remove existing channels for a profile.

[00149] Fig. 46 is an exemplary user interface on a mobile user device running a dedicated application for searching for a business or event profile. The interface includes fields for receiving search parameters, such as business name, event name, or keyword. The interface includes a field through which the user may designate a location to limit the scope of search results that are returned and displayed. The interface lists the search results, each result including information about the result and available communication options. These communication options can be initiated within the dedicated application and include chatting via text within the dedicated application, initiating a telephone call, and using a robot to make a payment or to make a booking. Other communication options can also be configured to be present, including initiating a video conference.

[00150] Fig. 47 is an exemplary user interface on a mobile user device running the dedicated application of Fig. 46 for searching for a chat host profile. The interface includes fields for receiving search parameters, such as name, handle, or alias. The interface displays the search results, including handle names and available, as in the case of Fig. 46, communication options that can be initiated within the dedicated application for reaching the particular chat host(s).

[00151] Fig. 48 is an exemplary user interface, on a mobile user device running the dedicated application of Fig. 46, that displays a chat host profile to a user of the chat services. The profile displays the chat host's handle, name, and image. The profile also displays all available options for contacting the chat host, such as telephone number, website,

map location, or social media profile. The profile includes chat channels associated with the chat host, and their statuses. Further, the profile includes a control for users to add the chat host to their list of Favorite chat hosts.

[00152] Fig. 49 is an exemplary user interface, on a mobile user device running the dedicated application of Fig. 46, that displays a business location profile to a user of the chat services. The profile displays all available options for contacting the business at the particular location, such as telephone number, website, map location, or social media profile. In some embodiments, the profile displays an image defined by the business to represent their identity. In further embodiments, the profile includes promotional text inputted by a user associated with the business location. The profile includes a control for users to add the business location to their list of Favorite business locations. The profile includes chat channels associated with the business location profile, the status of the channels, and the presence of any robots on the channels. Note that in this case one of the channels is to book a reservation and may be serviced by a robot.

[00153] Fig. 50 is an exemplary user interface on a mobile user device running the dedicated application of Fig. 46, presented in the case of a robot servicing the chat session. The interface includes fields for accepting information for a communication. The fields permit structured and free form information for the chat session.

[00154] Fig. 51 is an exemplary user interface, on a mobile user device running the dedicated application of Fig. 46, presented after by the robot of Fig. 50 upon completion of the reservation task for the chat session. The interface confirms the successful completion of the tasks, and options for continuing to interact with the robot to modify the communication presented during the chat session.

[00155] Fig. 52 is an exemplary user interface, on a mobile user device running the dedicated application of Fig. 46, displaying a business profile. In this case, the business profile includes not only the comparable information in the interface of Fig. 49, but also a list of chat hosts associated with the business, as exemplified in the user interface of Fig. 40, and communication options for these chat hosts.

[00156] The embodiments of the invention described above are intended to be merely exemplary; numerous variations and modifications will be apparent to those skilled in

the art. All such variations and modifications are intended to be within the scope of the present invention as defined in any appended claims.

What is claimed is:

1. A computer-implemented method of managing a chat experience of a user desiring to chat with a selected one of a plurality of businesses or chat hosts, the method utilizing a chat management server running computer processes comprising:
 - receiving a search signal over a first network from a device, under control of the user, to indicate that the user device is running a process configured to support a managed chat session and including data characterizing criteria for a business or chat host with which the user seeks to chat;
 - responsive to the search signal, identifying a set of businesses or chat hosts meeting the criteria, determining availability status data for each business in the set of businesses or chat hosts, and transmitting, to the device, availability status data for the set of businesses or chat hosts for display on the user's device;
 - receiving over the first network a request message originated by the user on the device to enter a chat channel established for a selected one of the set of businesses or chat hosts; and
 - responsive to the request message, subscribing the user device to the chat channel for the selected one of the set of businesses or chat hosts, and transmitting to the device, over the first network, a launch-chat command to initiate a chat session over the chat channel.
2. A method according to claim 1, the computer processes further comprising associating a duration for the chat session, and if the chat session has not been previously closed by a party to the chat, then closing the chat session effective as of the end of the duration.
3. A method according to claim 2, wherein the duration is established according to a user-specified default.
4. A method according to claim 1, wherein the selected one of the set of businesses or chat hosts is a selected business, the computer processes further comprising, responsive to the request message, determining a pattern, for the chat channel, for message routing to seats of the selected business based on availability status data for the selected business and business rules provided by the selected business.

5. A method according to claim 4, wherein the pattern includes routing all messages from the user to the same seat.
6. A method according to claim 4, wherein the pattern includes routing successive messages from the user to the next available seat that is not busy.
7. A method according to claim 4, wherein the pattern includes routing all messages from the user to a plurality of seats simultaneously.
8. A method according to claim 4, wherein (i) business rules provided by the selected business specify a plurality of seat types, (ii) the availability data includes information enabling a user to make a selection corresponding to a specific seat type, (iii) the request message includes data indicative of the seat type corresponding to the selection made by the user, and (iv) subscribing the user device to the chat channel includes subscribing the user device in a manner consistent with the specific seat type.
9. A method according to claim 1, the computer processes further comprising:
running a computerized analysis of the chat database, to identify chat performance measurements, for any given business or chat host, including at least one of: (a) what fraction of user requests to chat were followed by a response; (b) average time to first response per request; (c) average time to response, after the first response, per request; (d) average number of responses provided in a given chat session; and (e) what percentage of chat responses were made within a specified period of time.
10. A method according to claim 1, wherein identifying the set of businesses or chat hosts meeting the criteria includes determining from stored data whether the user is authorized by any given business meeting the criteria, and if so including the given business in the set of businesses and otherwise excluding the given business from the set of businesses.

11. A method according to claim 1, wherein the selected one of the set of businesses or chat hosts is a selected business, the computer processes further comprising, prior to subscribing the user device to the chat channel for the selected one of the set of businesses, determining whether the selected one of the set of businesses requires further authorization by the business to enable the user to chat, and, if so, (i) transmitting to the device, over the first network, data establishing a form to be displayed on the device, configured to receive user-supplied information establishing entitlement of the user to chat, (ii) receiving from the device such information, (iii) processing such information, and only if authorization is determined as a result of such information, allowing the subscribing of the user device to the chat channel.

12. A method according to claim 1, the computer processes further comprising:
receiving a forward-chat message from the user over the first network;
responsive to the forward-chat message, forwarding to the user at a secondary electronic destination, in accordance with user-established settings, chat messages addressed to the user from the selected one of the set of businesses or chat hosts and forwarding to the selected one of the set of businesses or chat hosts each message from the user originating from the secondary electronic destination in response to a forwarded message from the selected one of the set of businesses or chat hosts.

13. A method according to claim 4, the computer processes further comprising:
receiving from a business user, in one of the seats, of the selected business, that is subscribed to the chat channel, a transfer request message to transfer the user to chat with a different seat of the selected business; and
responsive to the transfer request message, transferring the user device to chat with the different seat of the selected business.

14. A method according to claim 4, the computer processes further comprising:
receiving from a business user, in one of the seats, of the selected business, that is subscribed to the chat channel, a join request message to add to the chat session at least one additional business user from the selected business; and
responsive to the join request message, adding to the chat session the at least one additional business user.

15. A method according to claim 1, wherein the selected one of the set of businesses or chat hosts is a selected business, the computer processes further comprising:
running an installed application of the selected business, in accordance with

business rules specified by the selected business, after the user has been subscribed to the chat channel.

16. A method according to claim 15, wherein running the installed application occurs automatically immediately after the user has been subscribed to the chat channel.

17. A method according to claim 15, wherein running the installed application occurs when a business user of the selected business manually invokes the installed application.

18. A method according to claim 15, wherein running the installed application occurs when triggered automatically by a response by the user in the course of chat.

19. A computer-implemented method of managing a chat experience of a business user desiring to chat with a selected one of a plurality of other users, the method utilizing a chat management server running computer processes comprising:

receiving a search signal over a first network from a device, under control of the business user, to indicate that the user device is running a process configured to support a managed chat session and including data characterizing criteria for another user with whom the business user seeks to chat;

responsive to the search signal, identifying a set of users meeting the criteria, and for each user in the set of users, determining availability status, and transmitting, to the device, availability status data for the set of users for display on the business user's device;

receiving over the first network a request message originated by the business user on the device to enter a chat channel established for a selected one of the set of users; and

responsive to the request message, subscribing the user device to the chat channel for the selected one of the set of users, and transmitting to the device, over the first network, a launch-chat command.

20. A method according to claim 19, wherein identifying the set of users meeting the criteria includes excluding from the set any user who has not authorized receiving chat from the business of the business user, so that such user is not displayed on the business user's device.

21. A method, according to claim 19, of managing a chat experience of a given business user desiring to chat with a selected one of a plurality of other business users in the same business as the given business user, wherein the set of users corresponds to at least some of other business users in the same business.
22. A method according to claim 19, wherein the data characterizing criteria for another user with whom the business user seeks to chat have resulted from a search initiated by the business user.
23. A method according to claim 19, wherein the search has resulted by business user selection of one of a set of pre-defined categories.
24. A method according to claim 19, wherein the data characterizing criteria for another user with whom the business user seeks to chat have resulted from selection by the business user to cause display of favorites saved by the business user.
25. A method according to claim 19, wherein the data characterizing criteria for a another user with whom the business user seeks to chat have resulted from selection by the business user to cause display of users recently accessed by the business user for purposes of chat.
26. A method according to claim 19, the computer processes further comprising associating a duration for the session, and if the chat session has not been previously closed by a party to the chat, then closing the chat session effective as of the end of the duration.
27. A method according claim 19, wherein the business user has at least one additional device, the method further comprising:
 - receiving over a second network from the at least one additional device a request and credentials for authentication of the business user, determining if the credentials are valid, and if so, logging in the at least one additional device; and
 - subscribing the at least one additional device to the chat channel.

28. A computer-implemented method of providing a chat experience to a user having a user device and desiring to chat with a selected one of a plurality of businesses or chat hosts, the method utilizing computer processes running on the user device comprising:

transmitting to a chat management server a search signal, over a first network, to indicate that the user device is running a process configured to support a managed chat session and including data characterizing criteria for a business with which the user seeks to chat;

receiving, from the chat management server, over the first network, responsive to the search signal, search results data for each business or chat host in a set of businesses or chat hosts meeting the criteria;

responsive to a user selection of one of the businesses or chat hosts in the set of businesses or chat hosts, receiving and causing to be displayed, on the user's device, availability status data for channels of the selected business or chat host;

responsive to a user selection of a channel of one of the set of businesses or chat hosts, transmitting over the first network, to the chat management server, a request message to enter the selected chat channel;

receiving from the chat management server, over the first network, responsive to the request message, a launch-chat command, indicating that the user device has been subscribed to the selected chat channel and that a chat session has been established for the user over the selected channel; and

responsive to the launch-chat command, opening a chat display box on the user device to receive chat initiated by the user that is directed over the selected channel for the business or chat host.

29. A method according to claim 28, wherein causing to be displayed, on the user's device, availability status data for channels of the selected business or chat host includes causing to be displayed at the same time a graphical interface for selecting at least one other modality of communication with the business or chat host, such modality including voice communication.

30. A non-transitory computer readable medium encoded with instructions which, when loaded into a user device, establish processes, for providing a chat experience to a user having a user device and desiring to chat with a selected one of a plurality of businesses, the processes comprising:

- transmitting to a chat management server a search signal, over a first network, to indicate that the user device is running a process configured to support a managed chat session and including data characterizing criteria for a business with which the user seeks to chat;

- receiving, from the chat management server, over the first network, responsive to the search signal, availability status data for each business in a set of businesses meeting the criteria,

- displaying the availability status data on the user's device;

- responsive to a user selection of one of the set of businesses, transmitting over the first network, to the chat management server, a request message to enter a chat channel established for the selected one of the set of businesses; and

- receiving from the chat management server, over the first network, responsive to the request message, a launch-chat command, indicating that the user device has been subscribed to a chat channel for the selected one of the set of businesses, and transmitting to the device, over the first network;

- responsive to the launch-chat command, opening a chat display box on the user device to receive chat initiated by the user that is directed to the selected business.

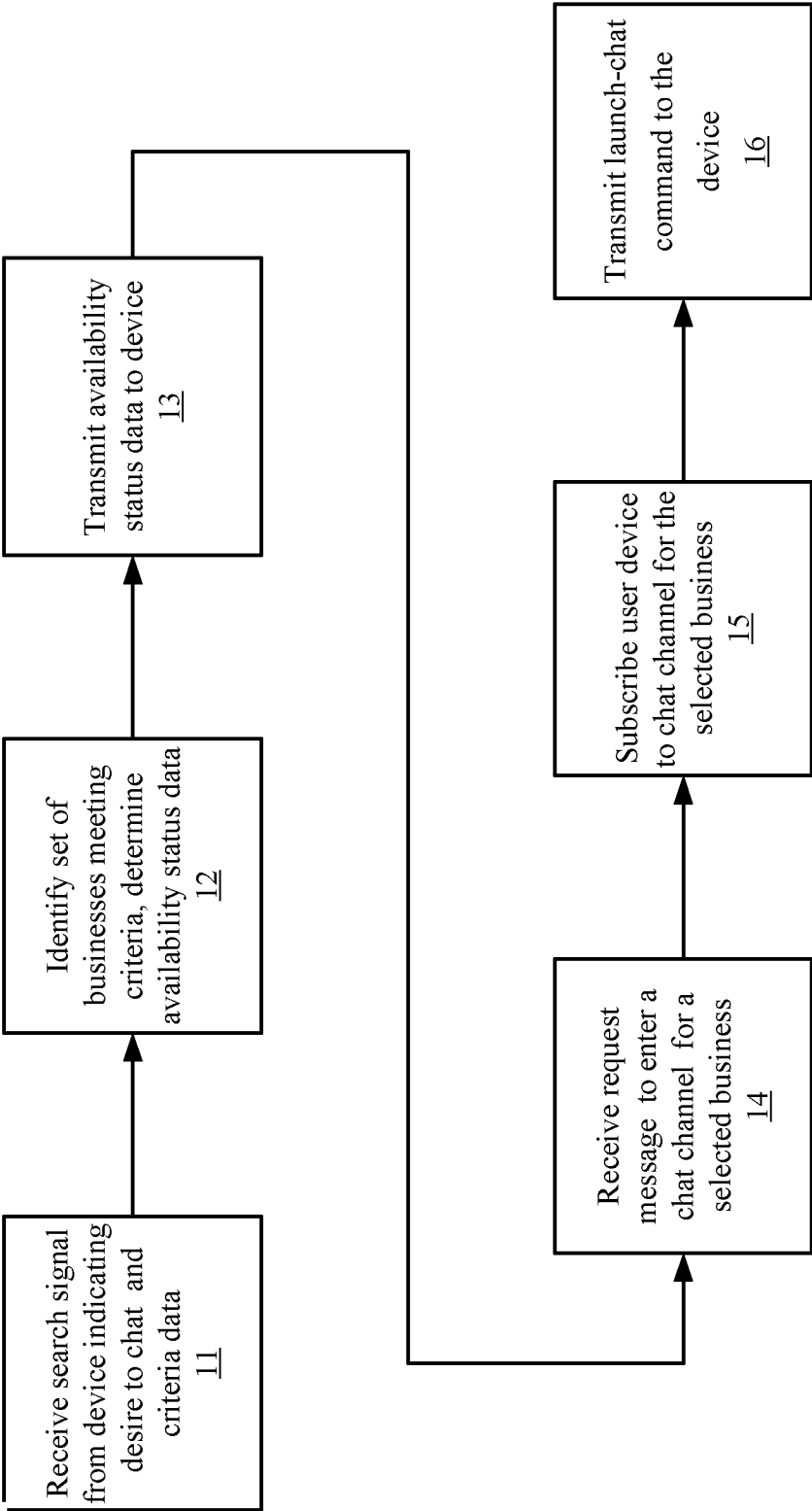


Fig. 1

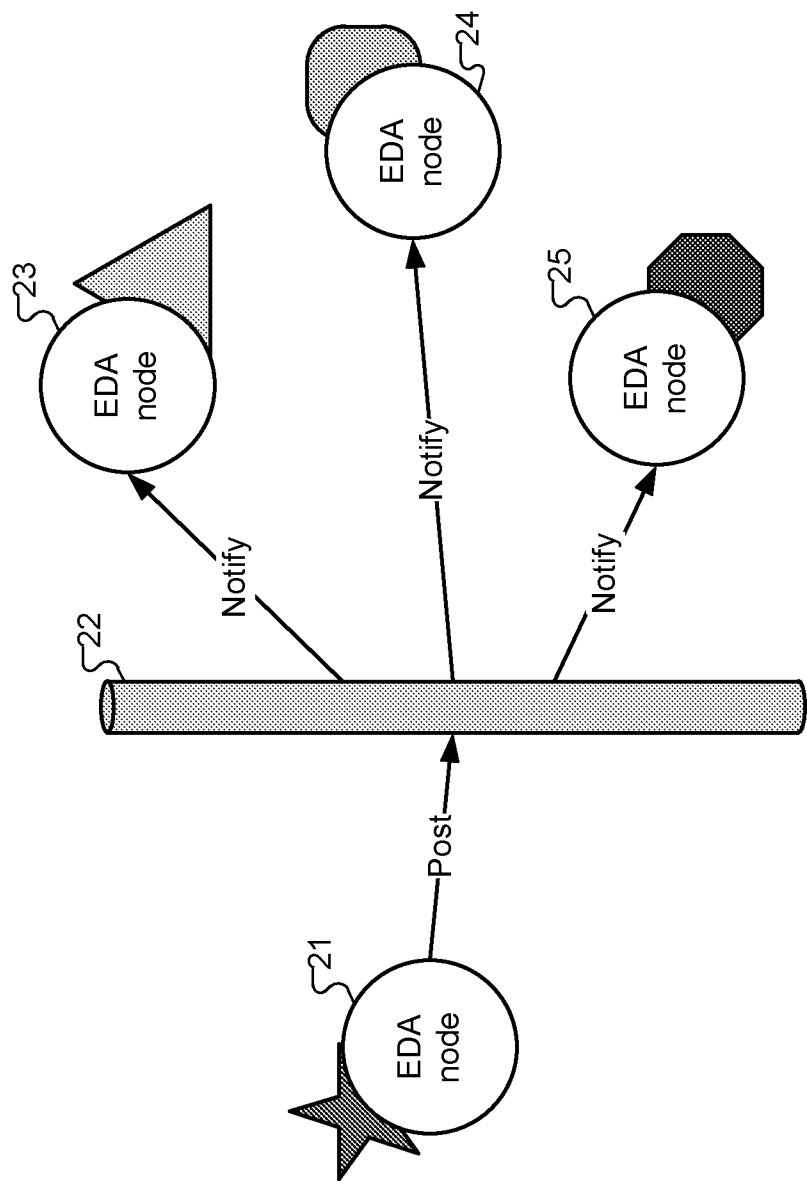


Fig. 2

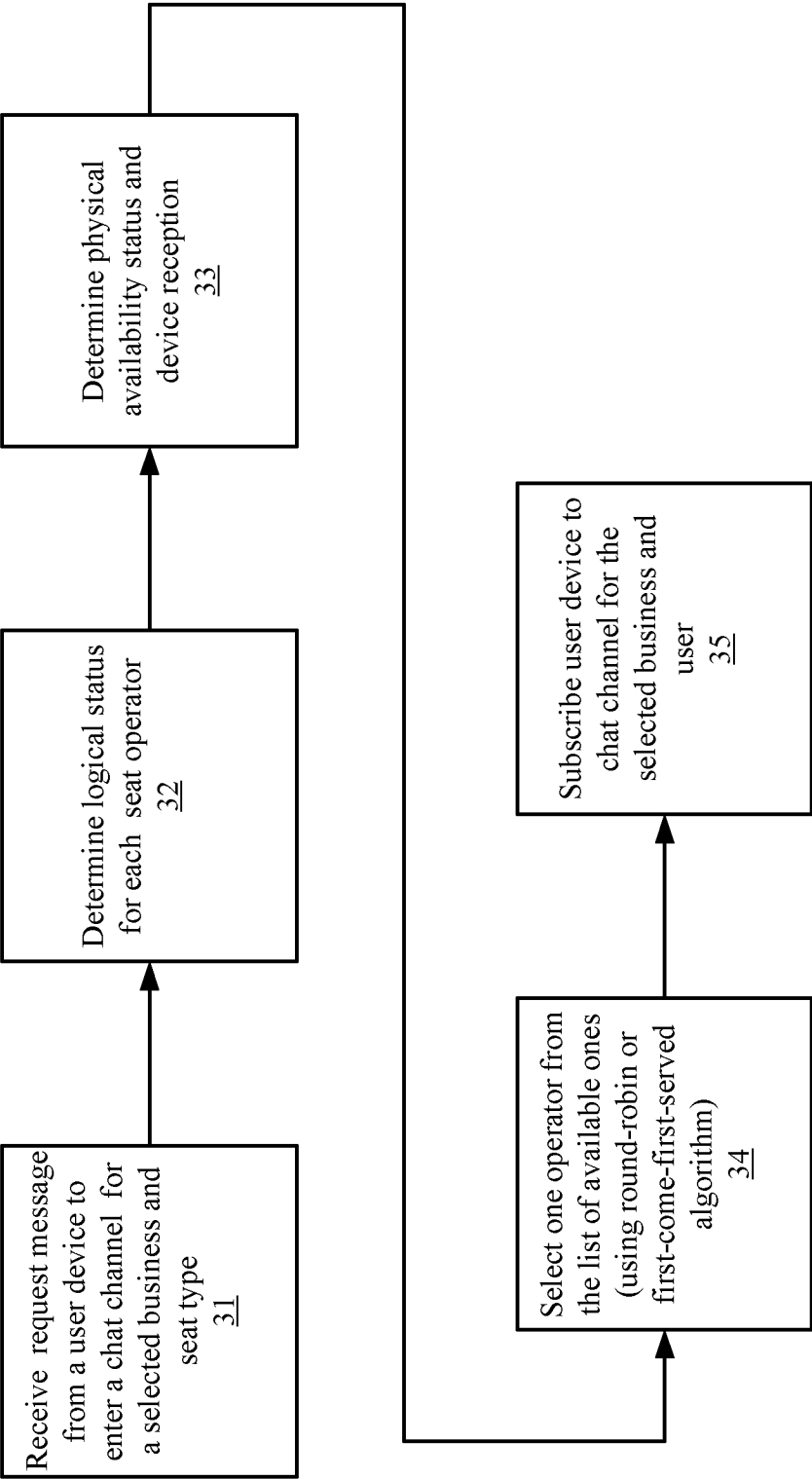


Fig. 3

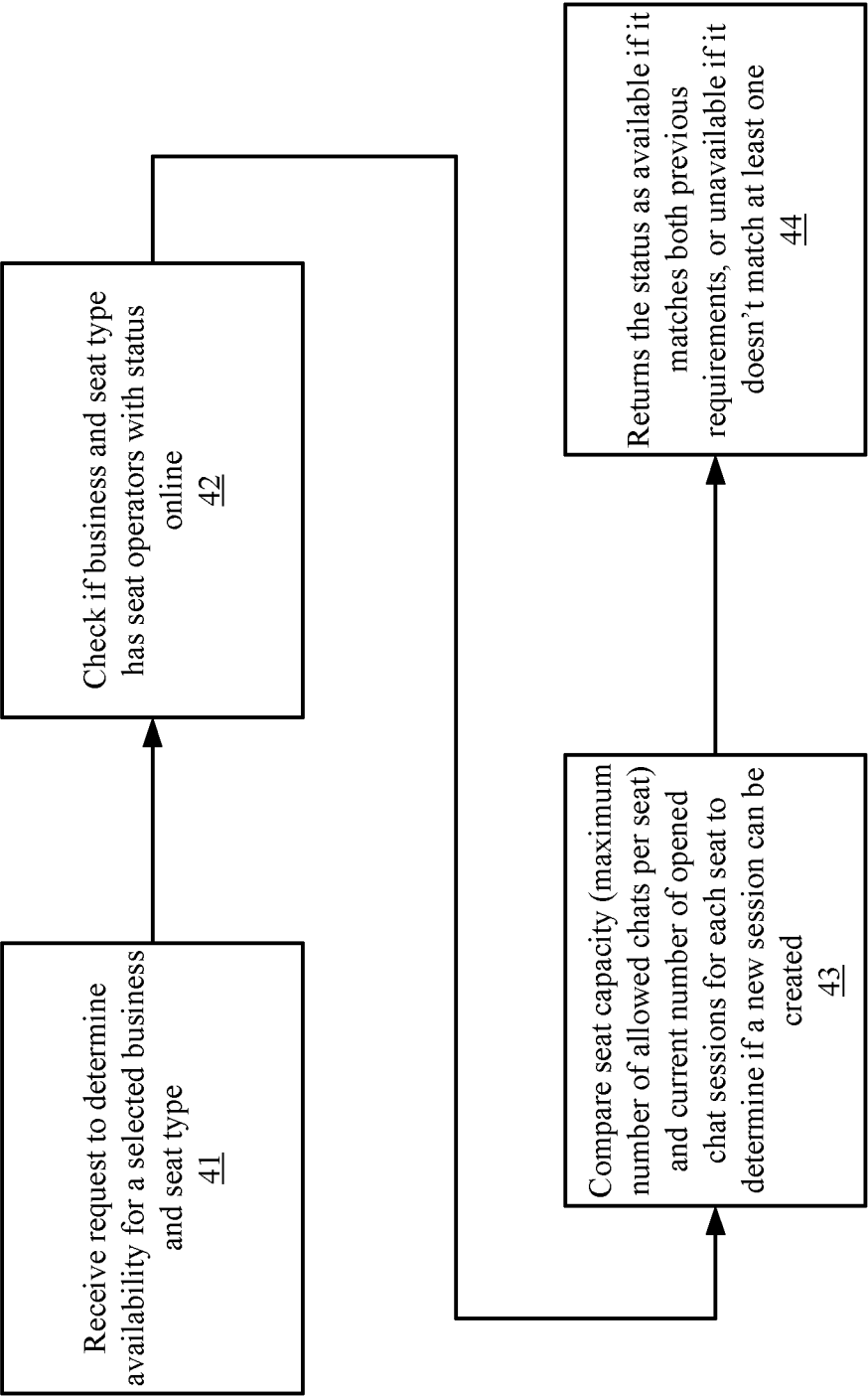


Fig. 4

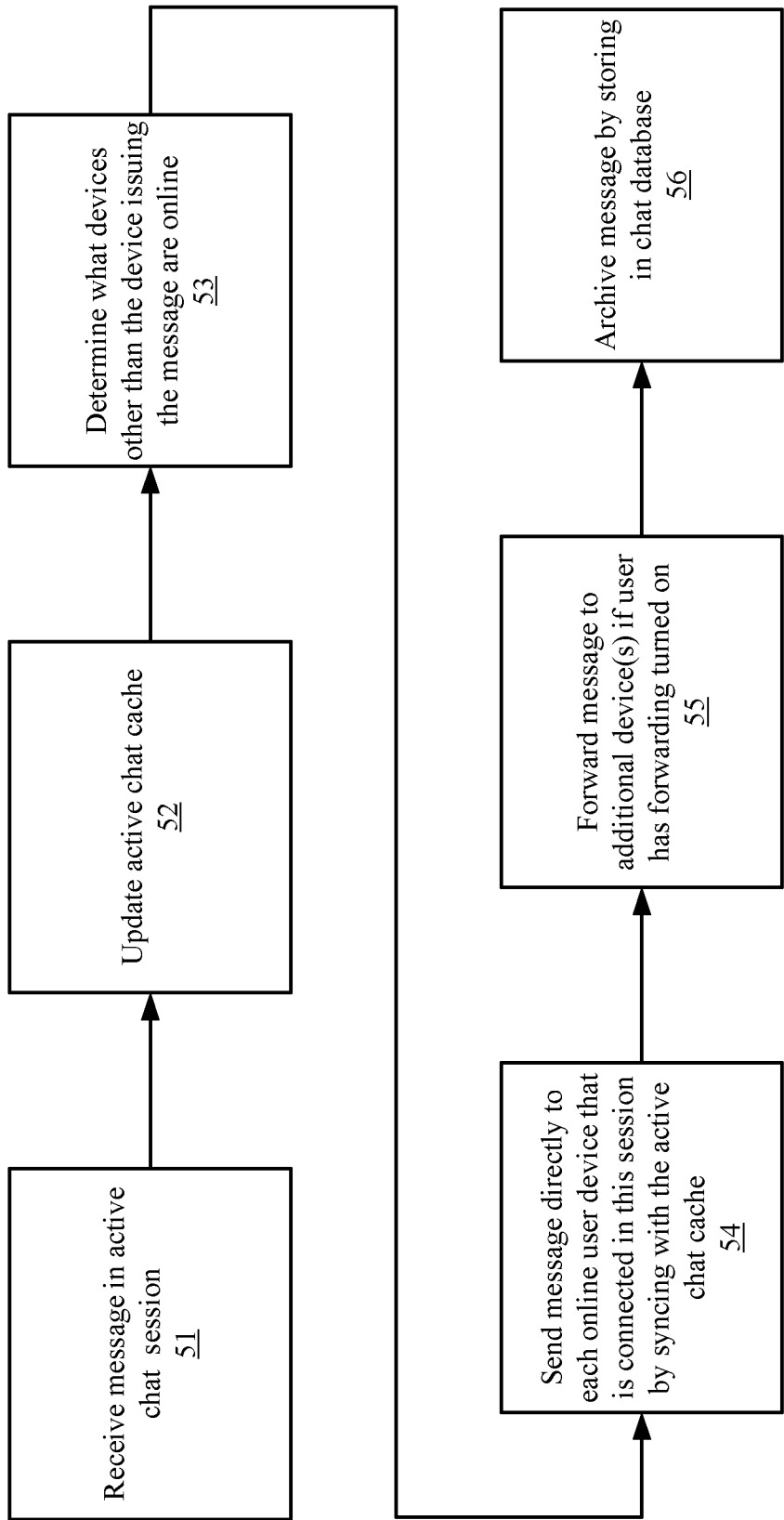


Fig. 5

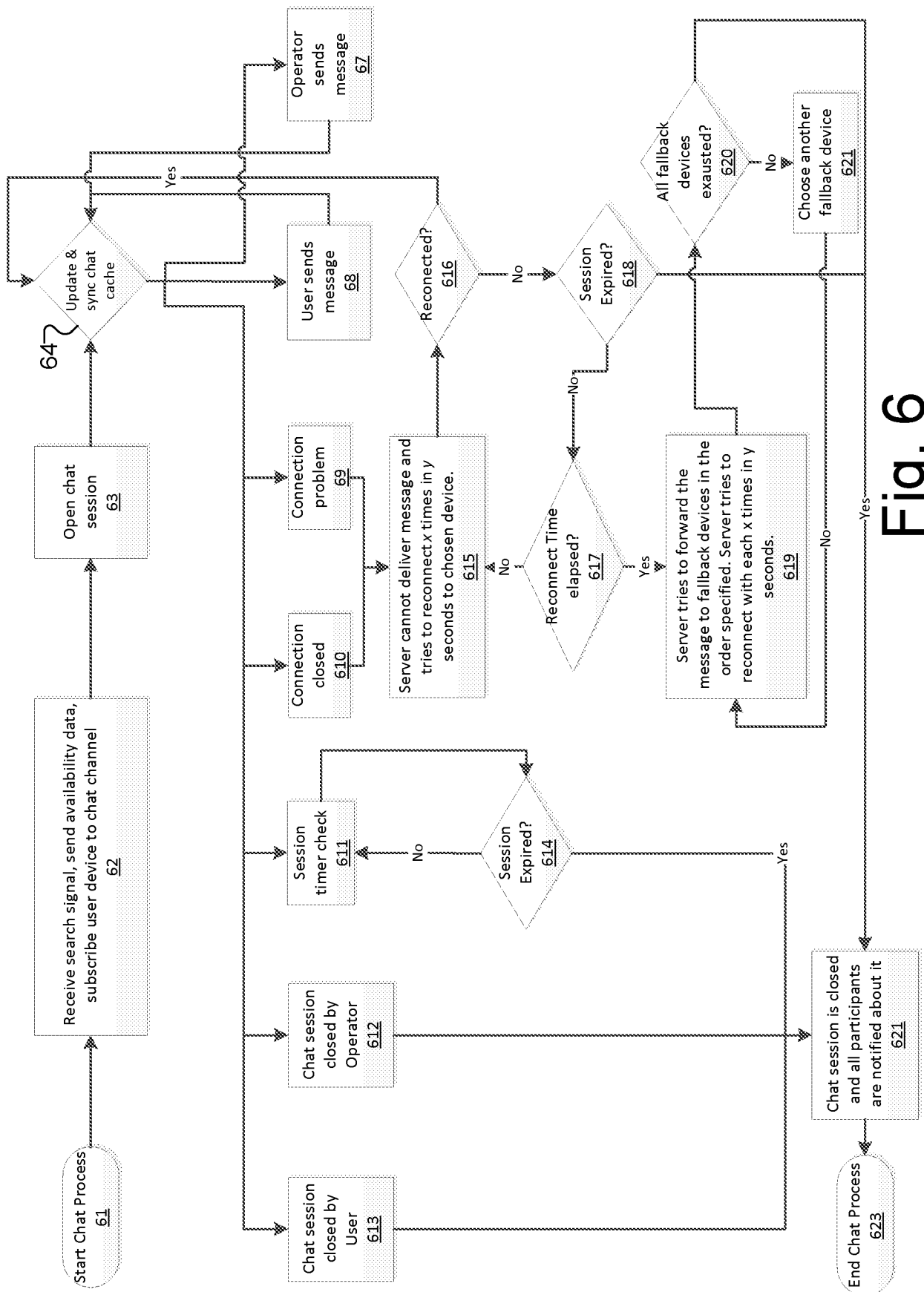


Fig. 6

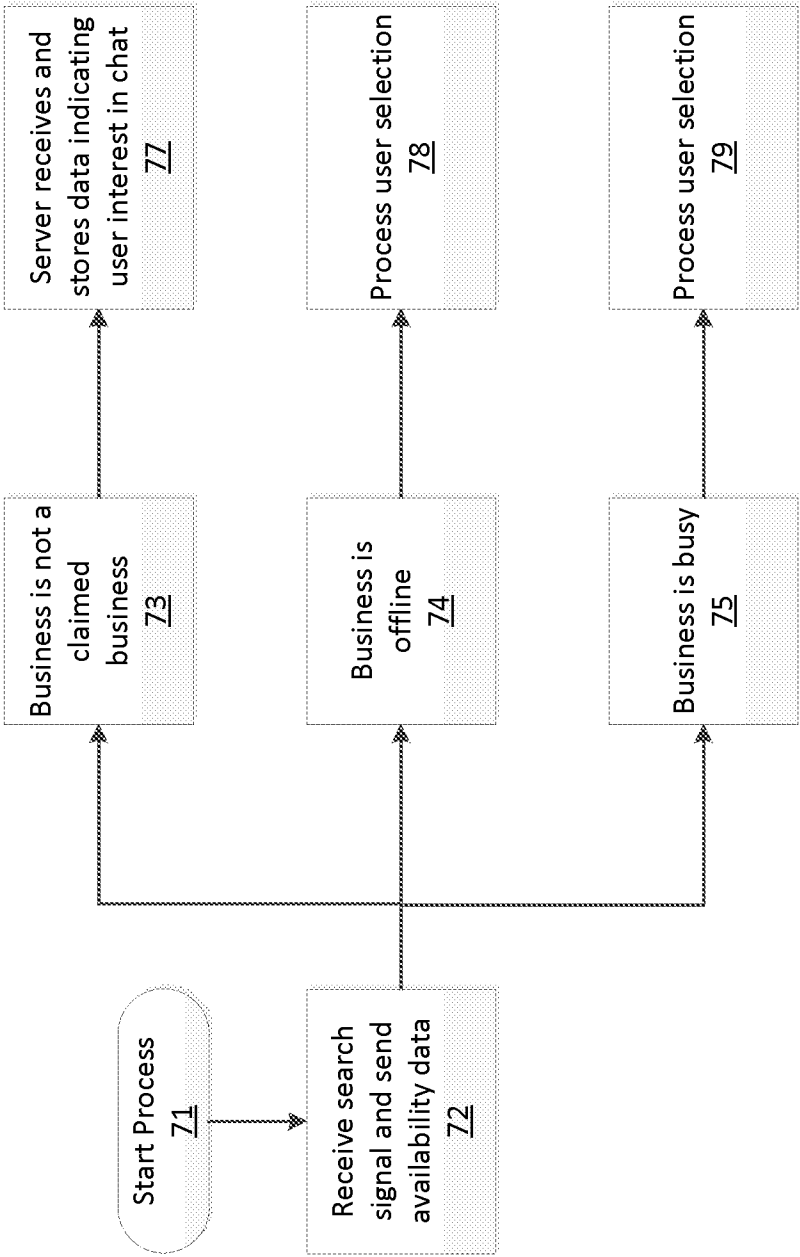


Fig. 7

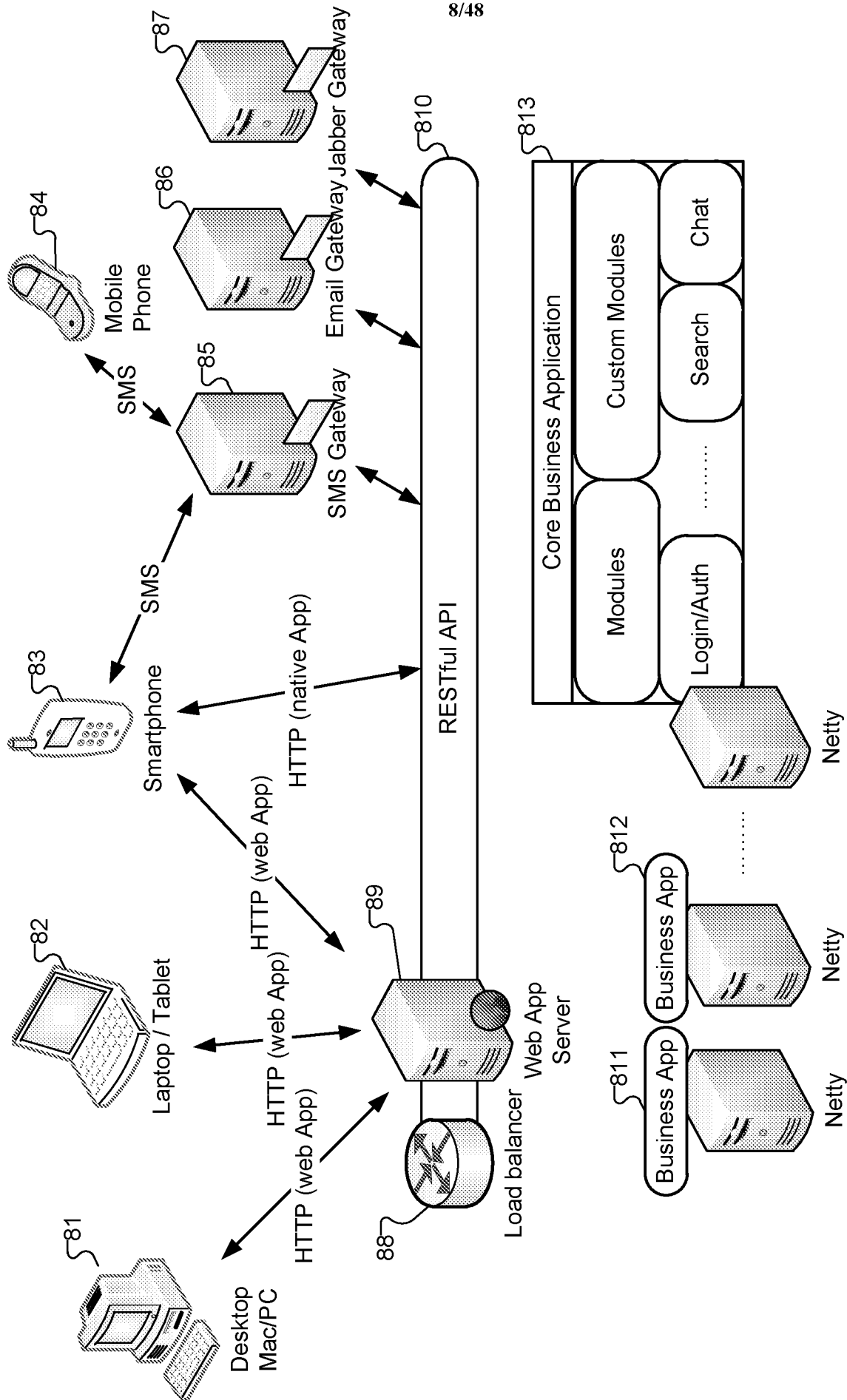


Fig. 8

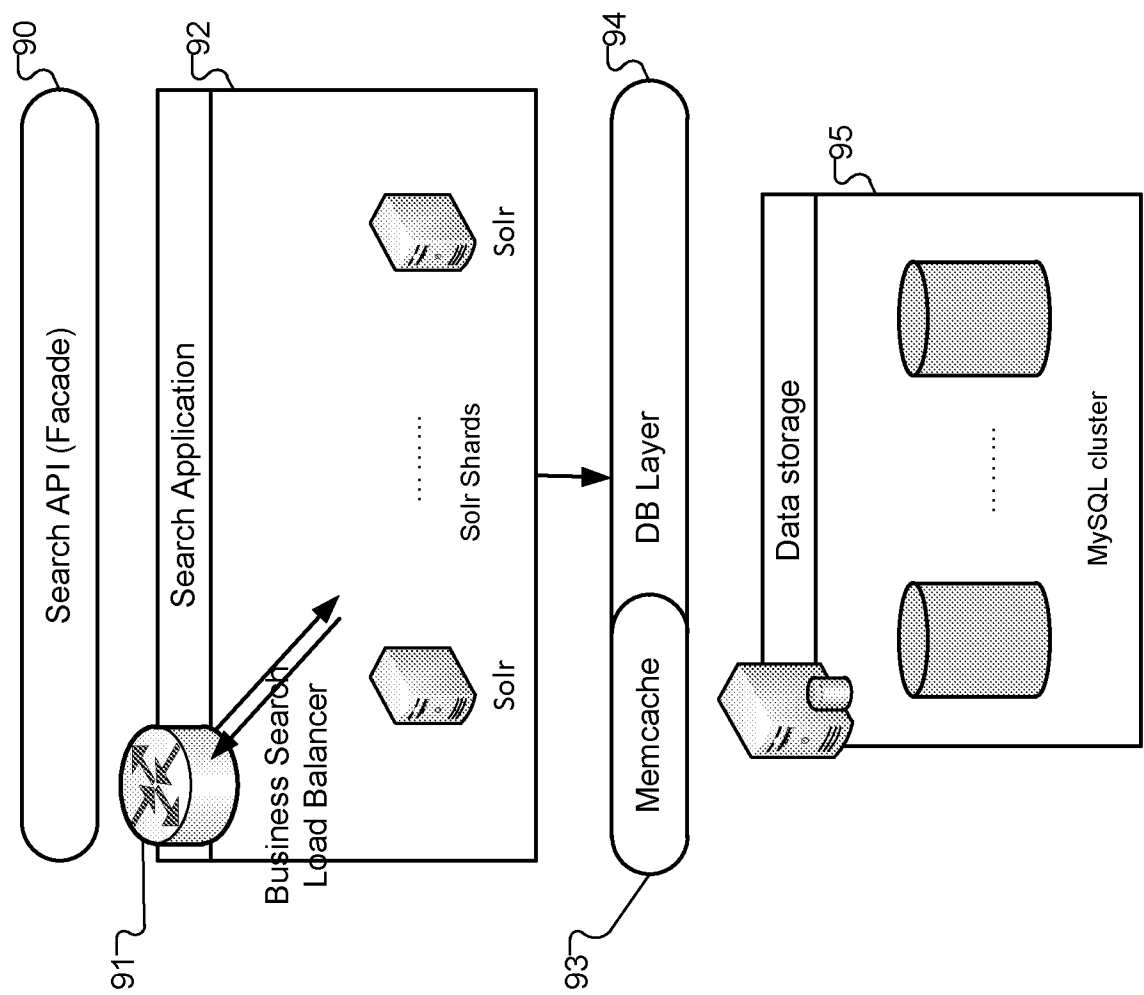


Fig. 9

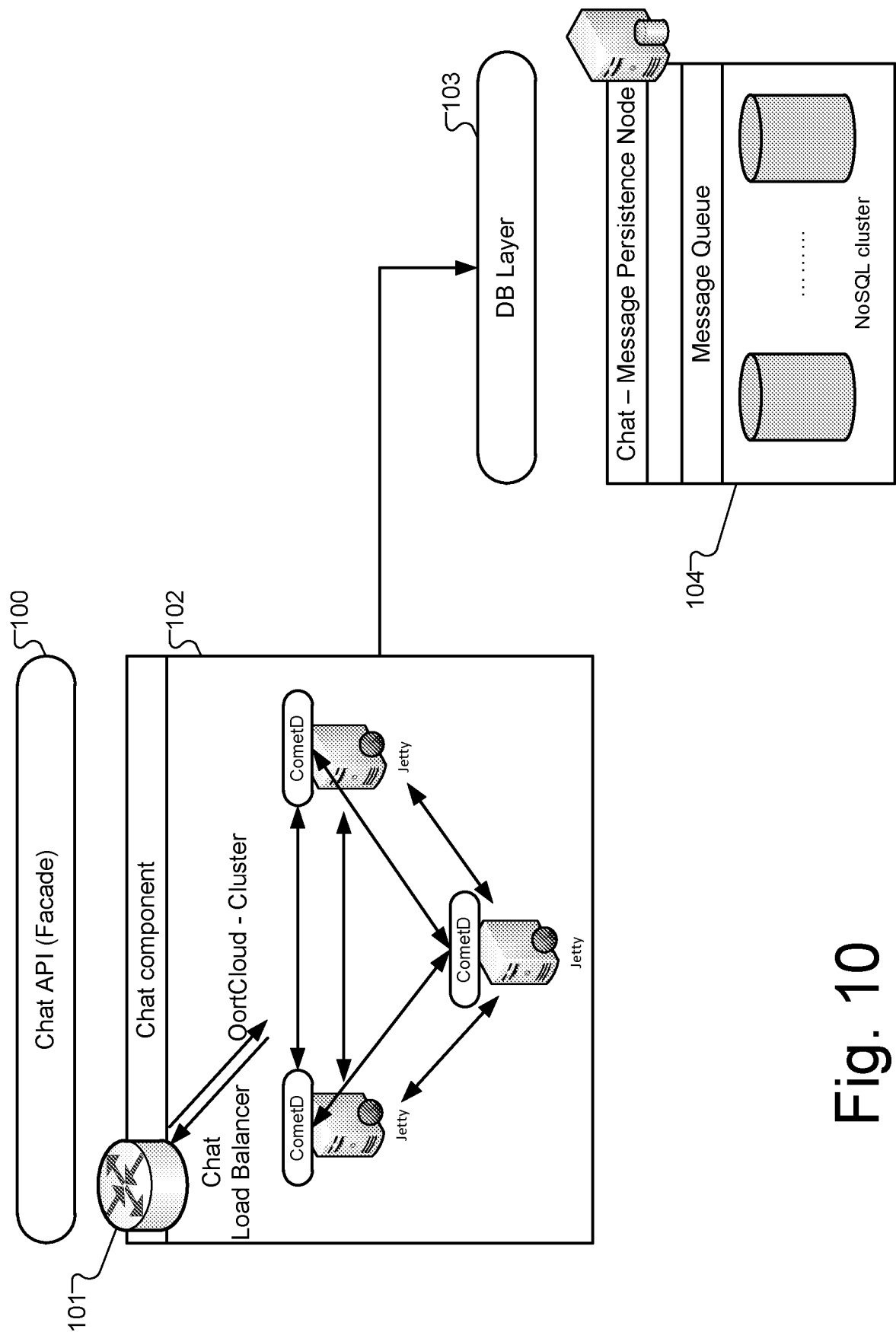


Fig. 10

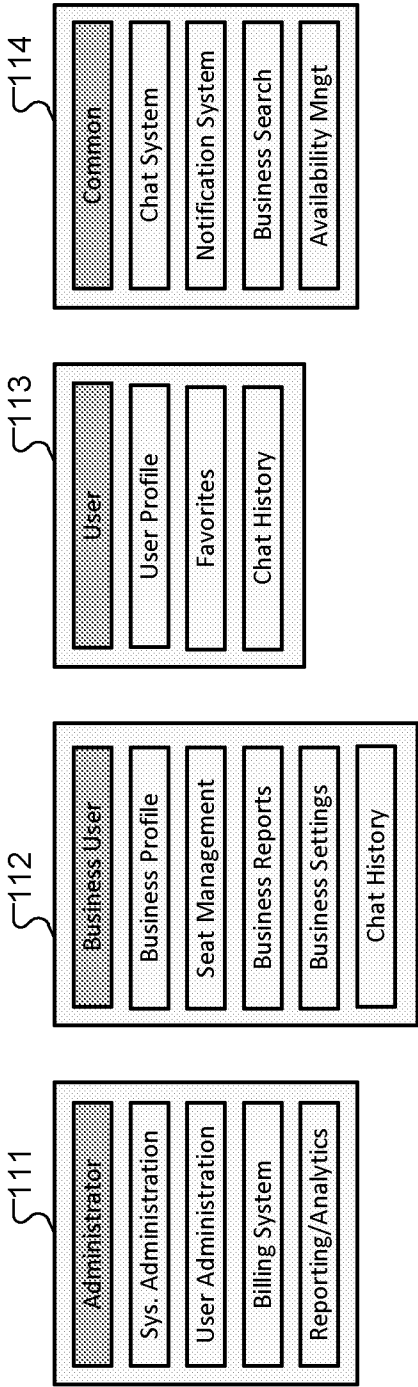


Fig. 11



Fig. 12



Fig. 13

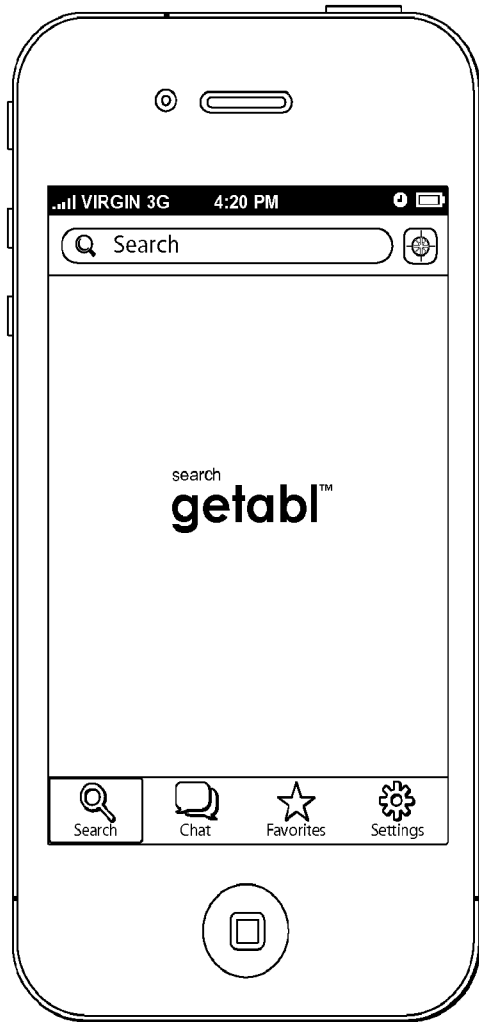


Fig. 14

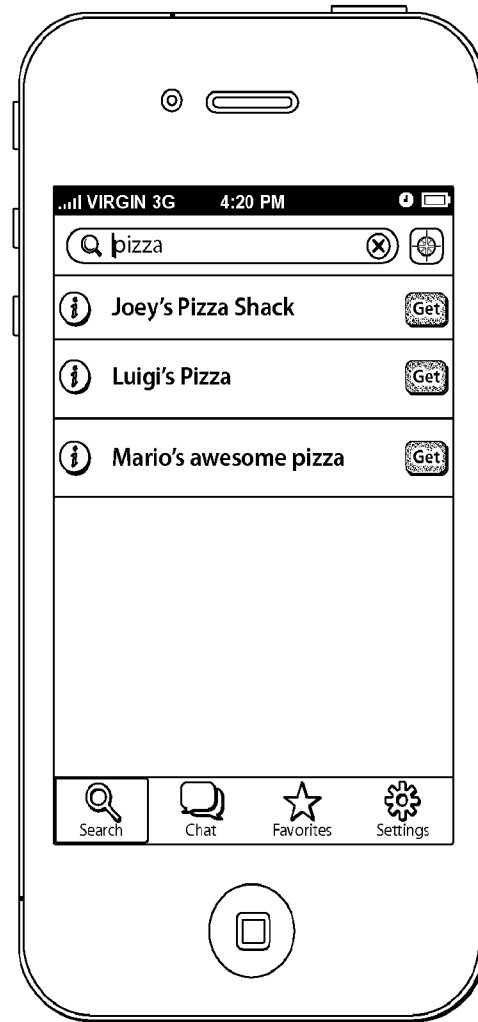


Fig. 15

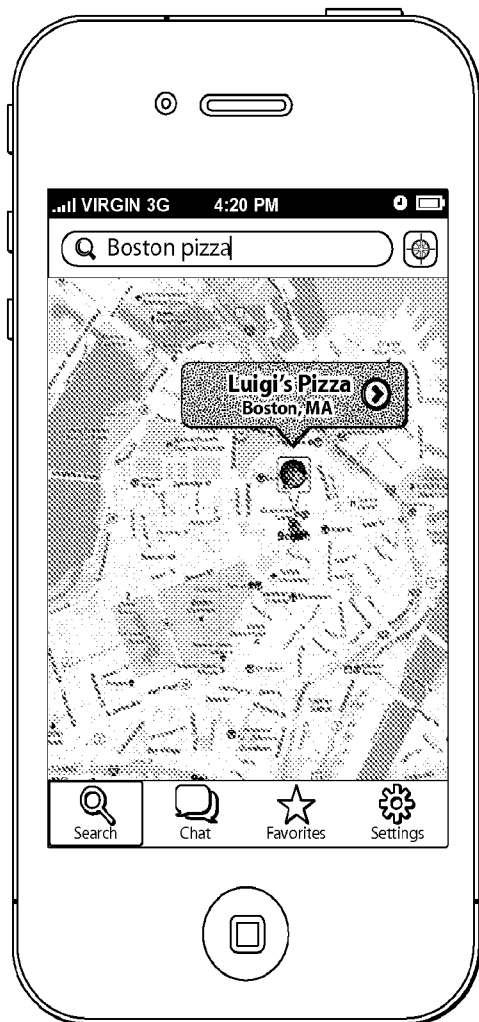


Fig. 16

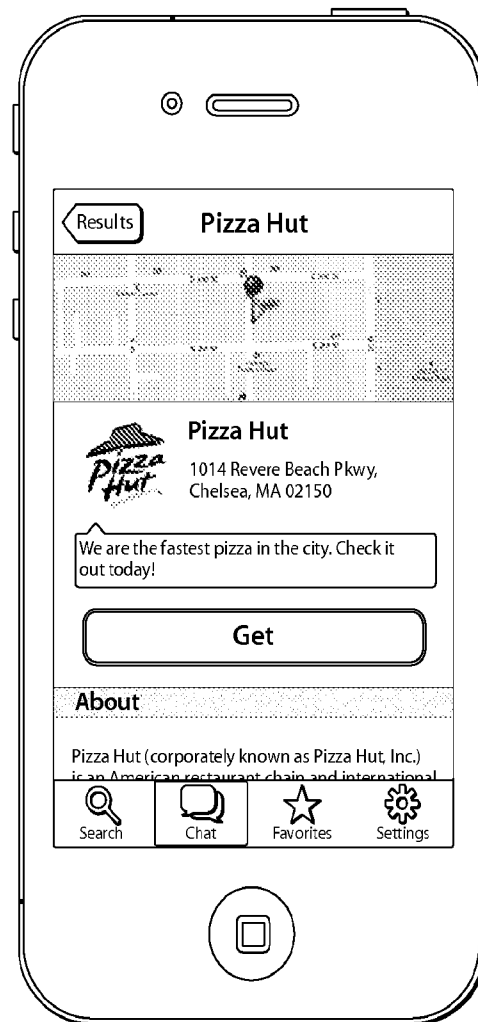


Fig. 17

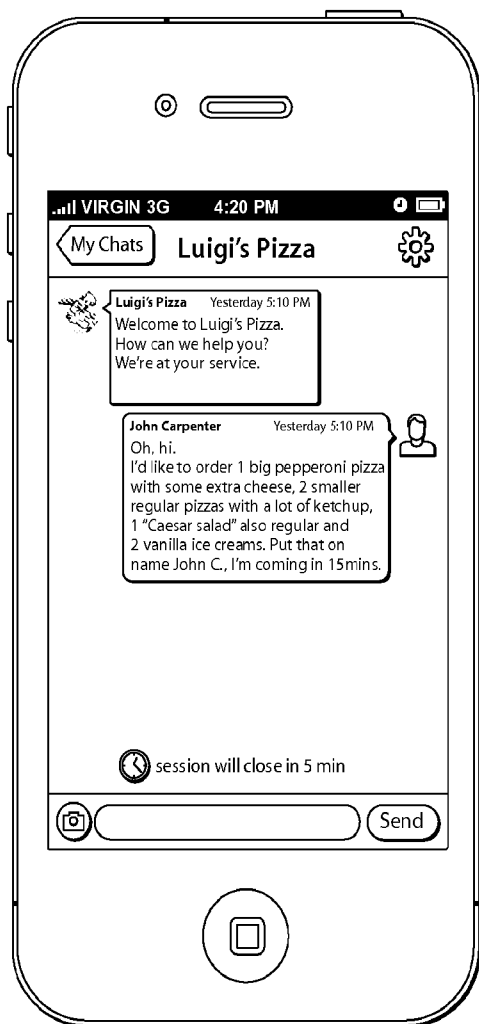


Fig. 18

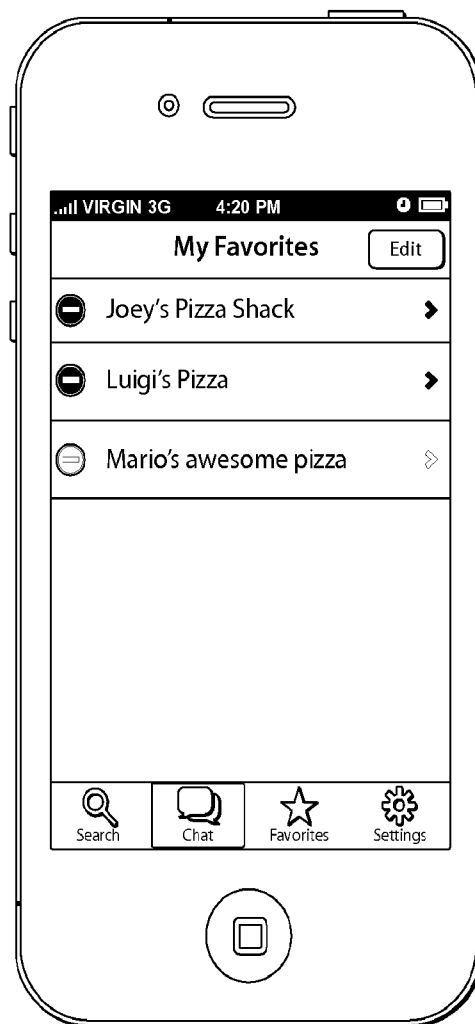


Fig. 19

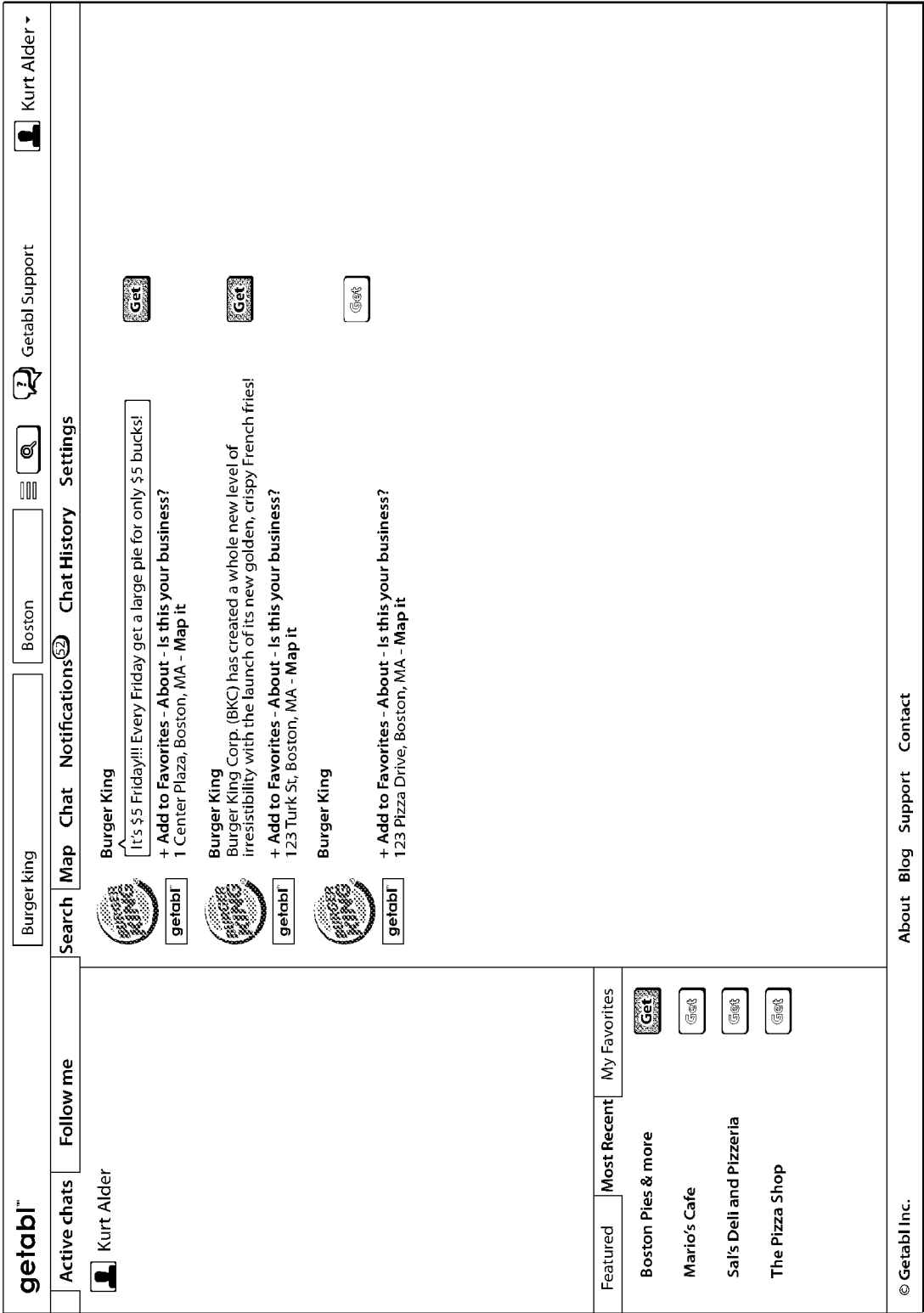


Fig. 20

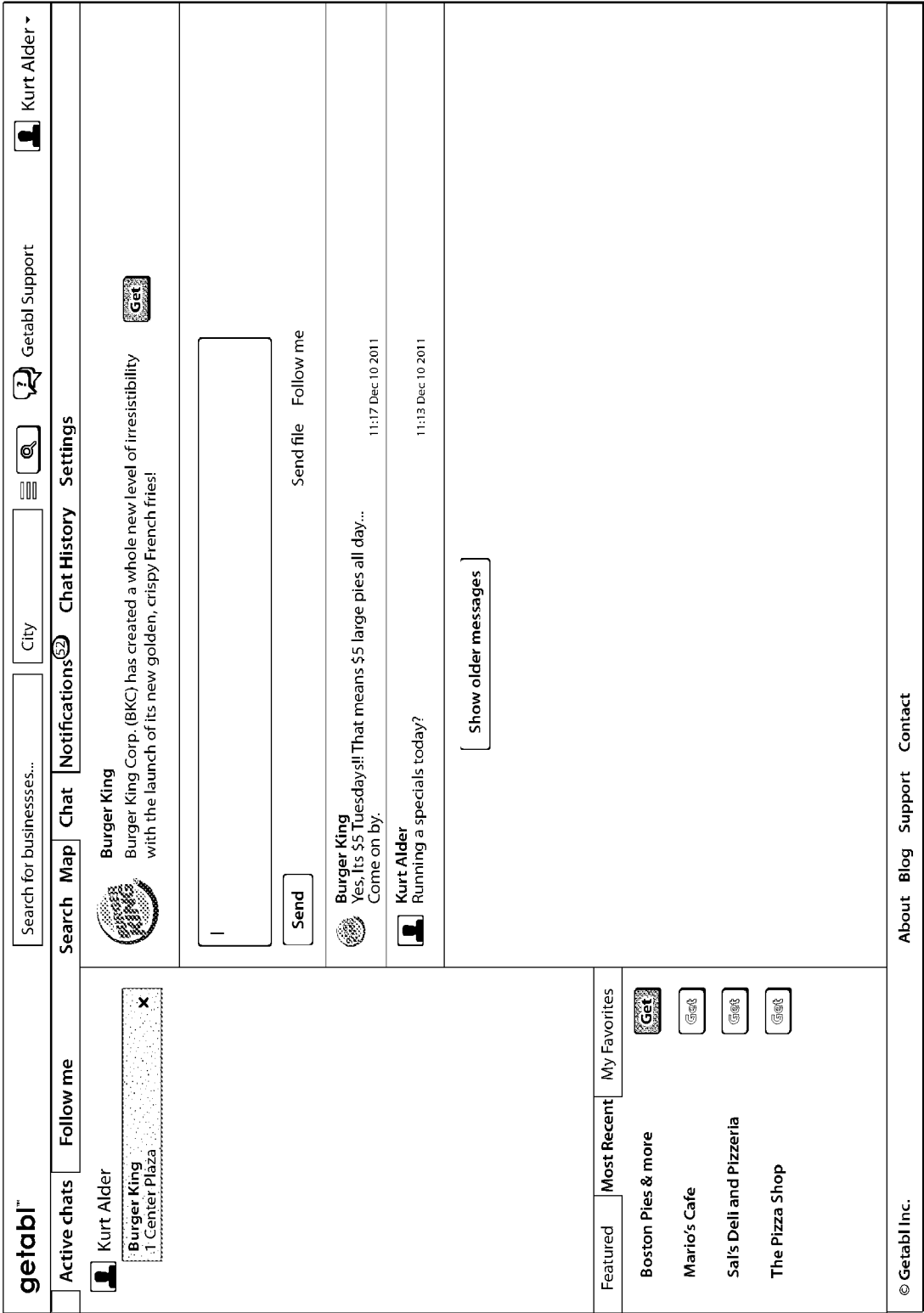


Fig. 21

getabl™

Active chats

Kurt Alder

Follow me

Featured

Most Recent

My Favorites

Joey's Pizza Shack

Mario's Cafe

Sal's Deli and Pizzeria

The Pizza Shop

Boston Pies & more

Search for businesses...

Search

Map

Chat

Notifications

Notifications icon

City

Chat History

Settings

Getabl Support

Kurt Alder

Burger King

280 West Broadway Street

The best veal chop in massachusetts- home made

Business | People

sort by: date | name

12.09.2011

13.09.2011

Shoes Style

Cocktail bar

Burger King

Hear studio

Hear studio

Design studio

14.09.2011

15.09.2011

16.09.2011

17.09.2011

18.09.2011

19.09.2011

20.09.2011

21.09.2011

22.09.2011

23.09.2011

24.09.2011

Chat history on 13.09.2011

Kurt Adler

Hello.

Burger King

Hello. How can we help you?

Kurt Adler

I'm looking for an discount. Any at your place today maybe?

Burger King

You are at the right place. Today we have discount on chicken wings.

Kurt Adler

Nice! I'm coming over.

Burger King

Nice! See you.

Kurt Adler

Yeah.

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Support

Contact

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Fig. 22

SUBSTITUTE SHEET (RULE 26)

getabl™			
Search for businesses... City Search Map Chat Notifications Chat History Settings Getabl Support Kurt Alder	Active chats Follow me Kurt Alder Settings for Kurt Alder Add profile photo Kurt Alder Washburn St. Boston, MA Primary Email: kurt.alder@gmail.com Add another email Edit Edit Edit Change my password Edit Manage Connections Getabl iOS app is connected Revoke Mobile phone Enter your mobile number Send code Manage Notifications Send me notifications on: ☒ Email ☒ SMS Follow me ON Chat Appearance Display my chat name as: ☒ Nickname ☐ Initials ☐ Name and Surname Delete account		
Featured Most Recent My Favorites Joey's Pizza Shack Mario's Cafe Sal's Deli and Pizzeria The Pizza Shop Boston Pies & more Get Get Get Get Get	About Blog Support Contact		
© Getabl Inc.			

Fig. 23

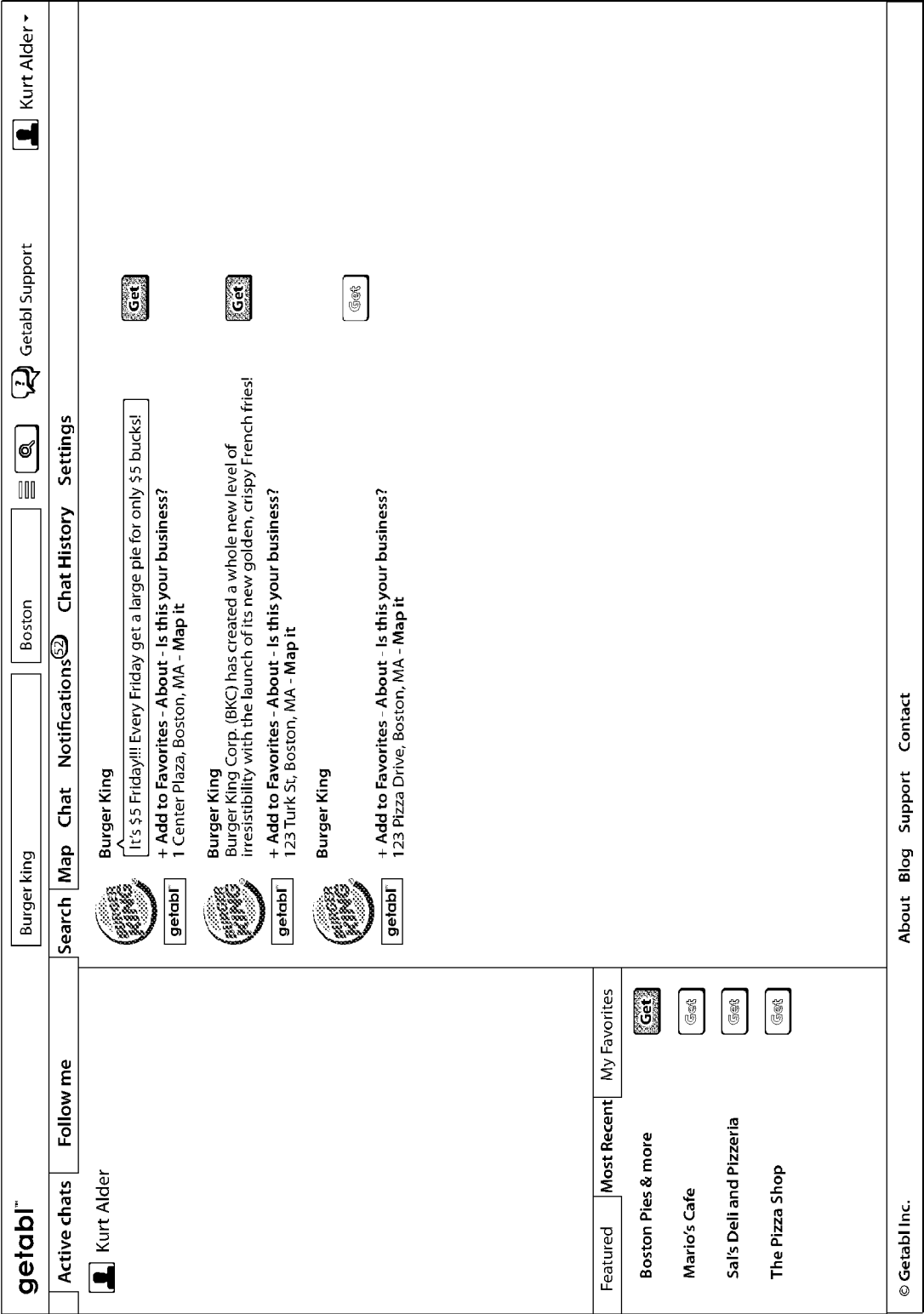


Fig. 24

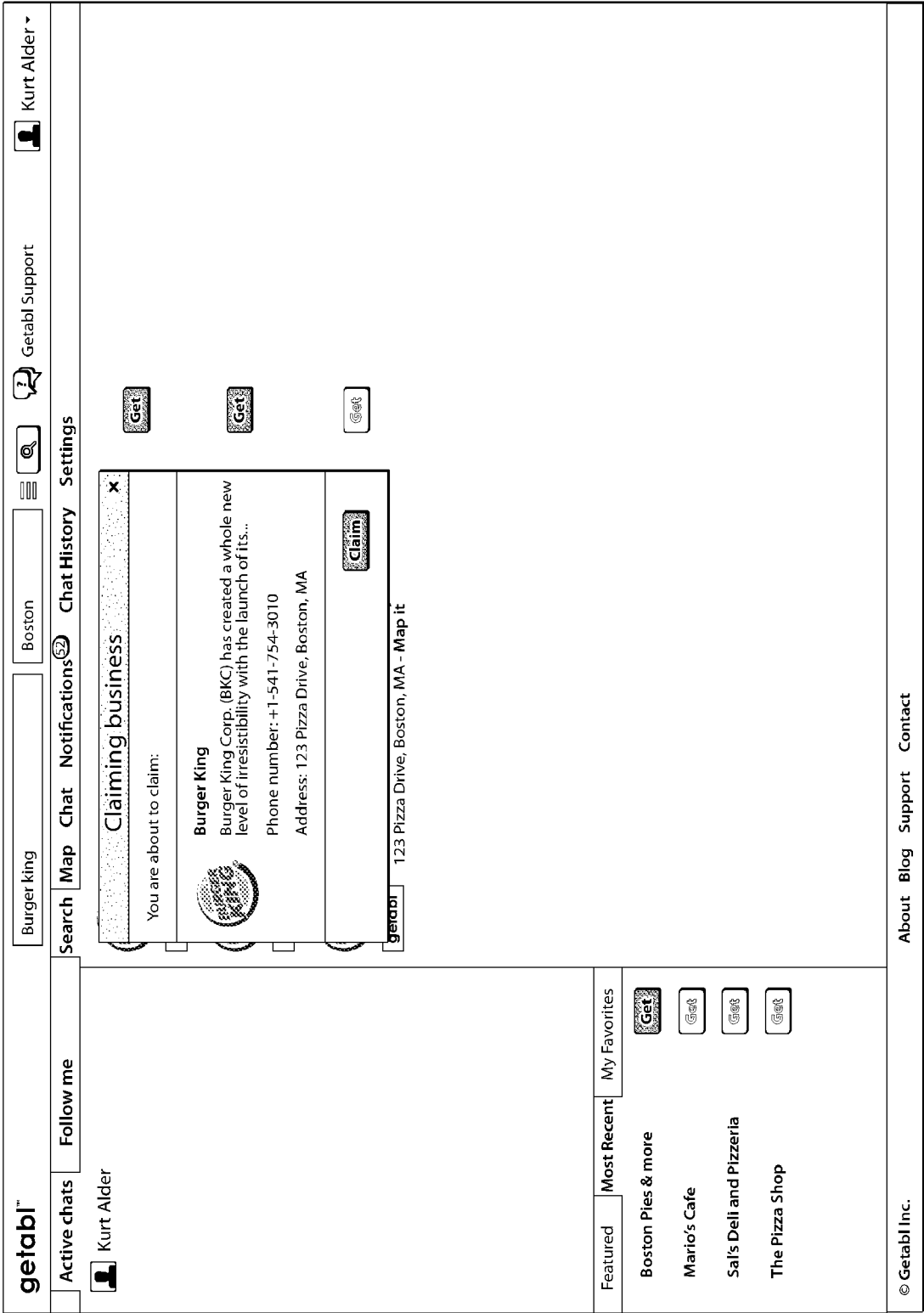


Fig. 25

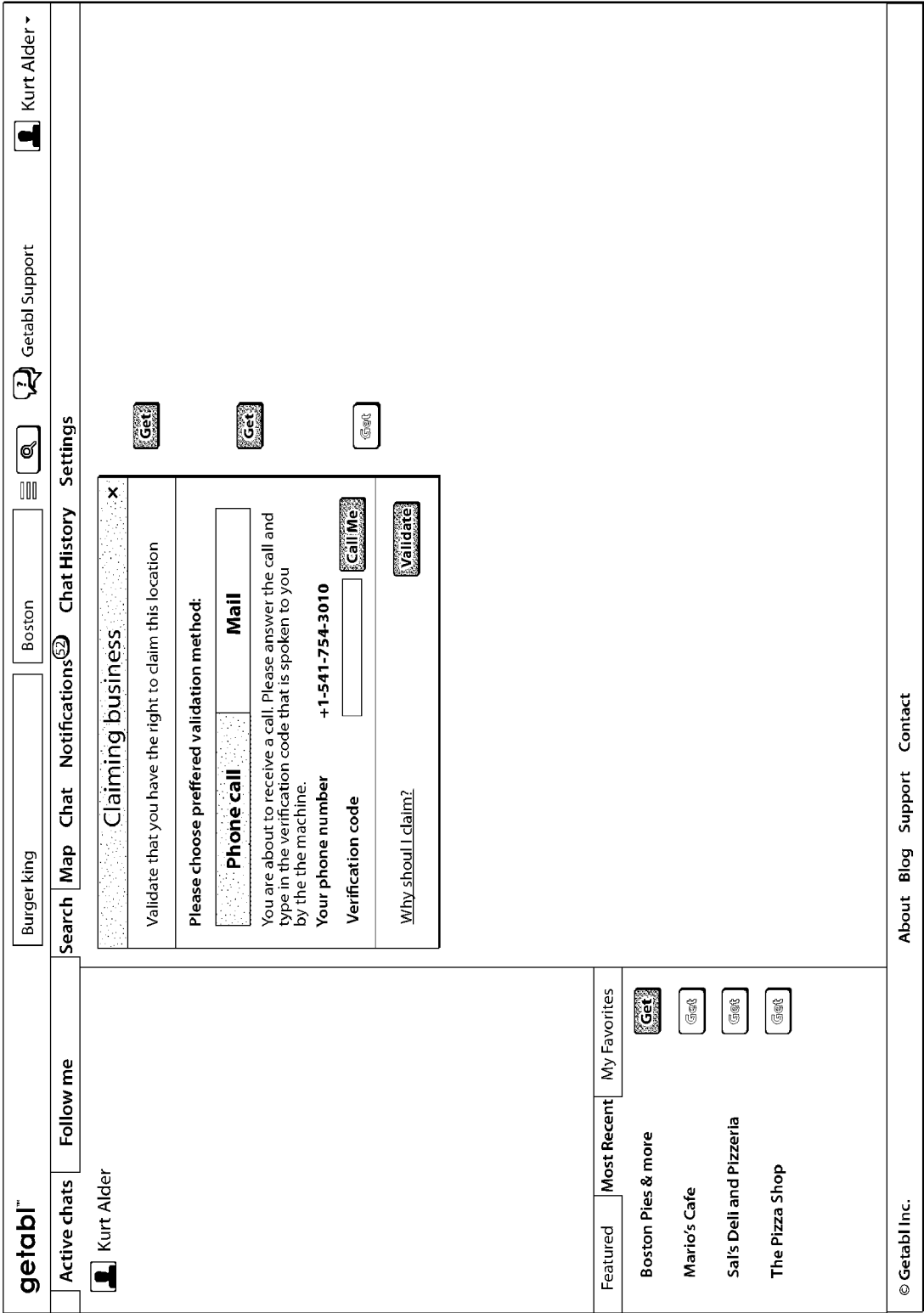


Fig. 26

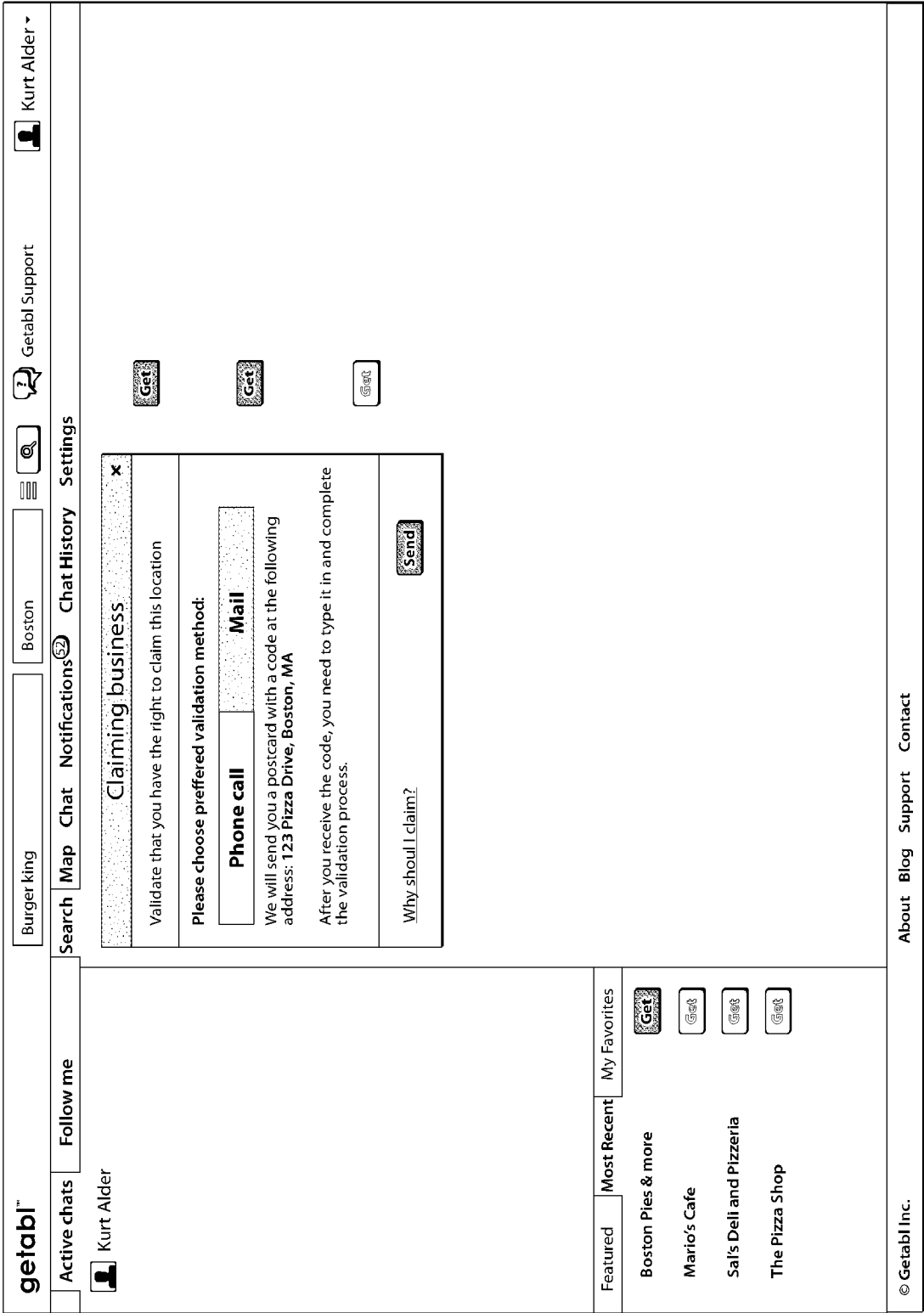


Fig. 27

				Burger king Boston Getabl Support Kurt Alder	
Active chats Kurt Alder	Follow me	Search Map Chat Notifications Chat History Settings			
Claiming business - Validate claim Congratulations, you've successfully claimed Sal's Pizza. Congratulations, you've claimed your business. In the SETTINGS tab, you'll find your personal USER settings and your BUSINESS settings. Please take a couple of minutes now to complete these three easy setup steps: 1. Set up your BUSINESS PROFILE This is where you can upload a picture of your business and tell customers a little about why they should love you. You can also insert tags so that your business gets more action from our search feature and set your online hours. 2. Set up your USER ACCOUNT This is where you decide how you're going to communicate with people on PINGUP. Enter your mobile number so that you'll be sure to never miss a PING. Don't worry, nobody gets your number and you control it all. Your privacy is of paramount importance to us. 3. Turn it on! On the main page, next to your company name you'll see a switch. Click it to the green ON position and you're ready to go You'll be receiving a gerabl merchant welcome kit shortly for more tips, instructions and techniques to get the most out of your getabl experience. You can connect with us real-time for hands-on support by selecting the GET Support Button or mailing support@getabl.com for more info. You have successfully validated business claim. Proceed					
Featured Most Recent My Favorites Boston Pies & more Mario's Cafe Sal's Deli and Pizzeria The Pizza Shop					
© Getabl Inc. About Blog Support Contact					

Fig. 28

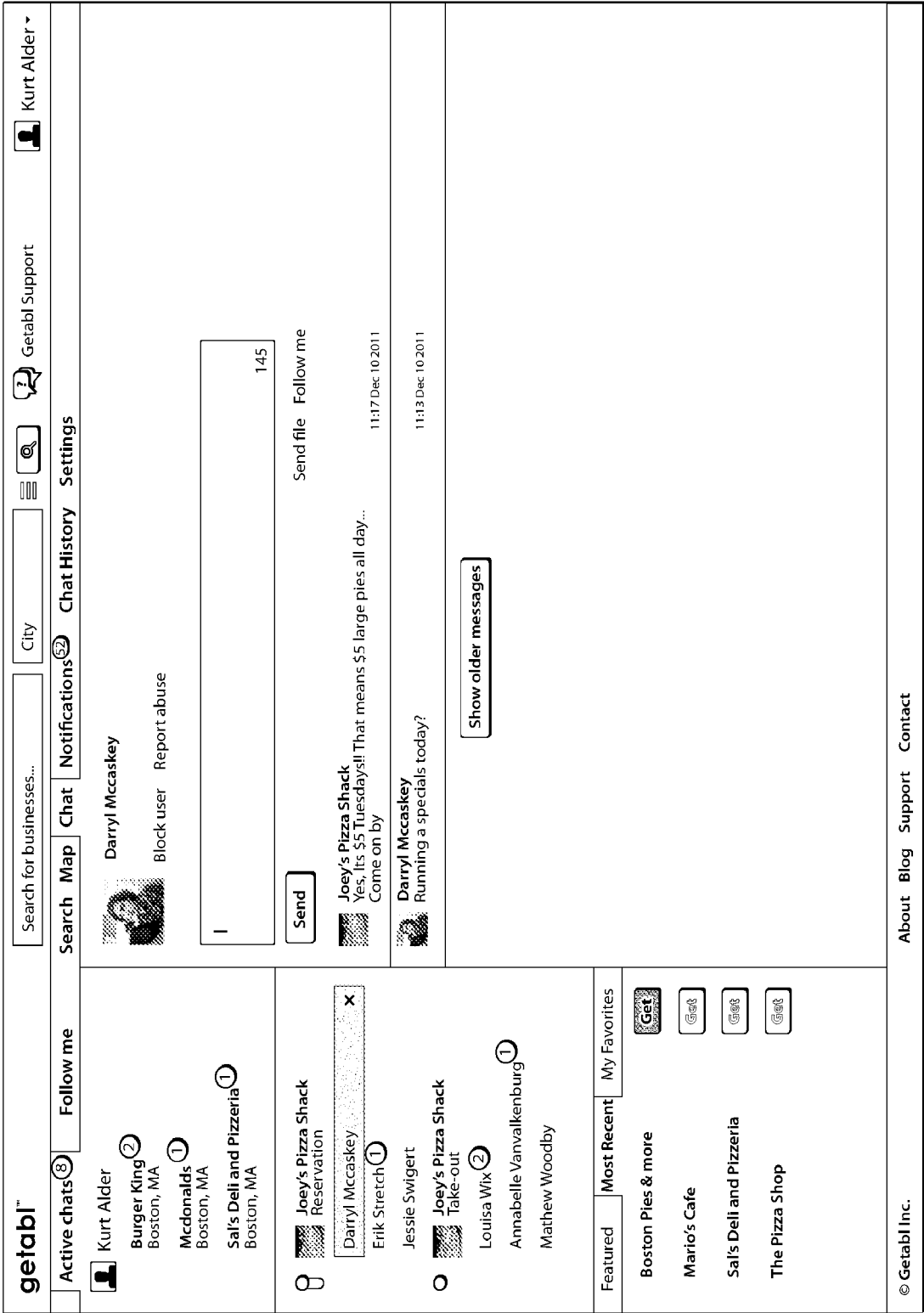


Fig. 29

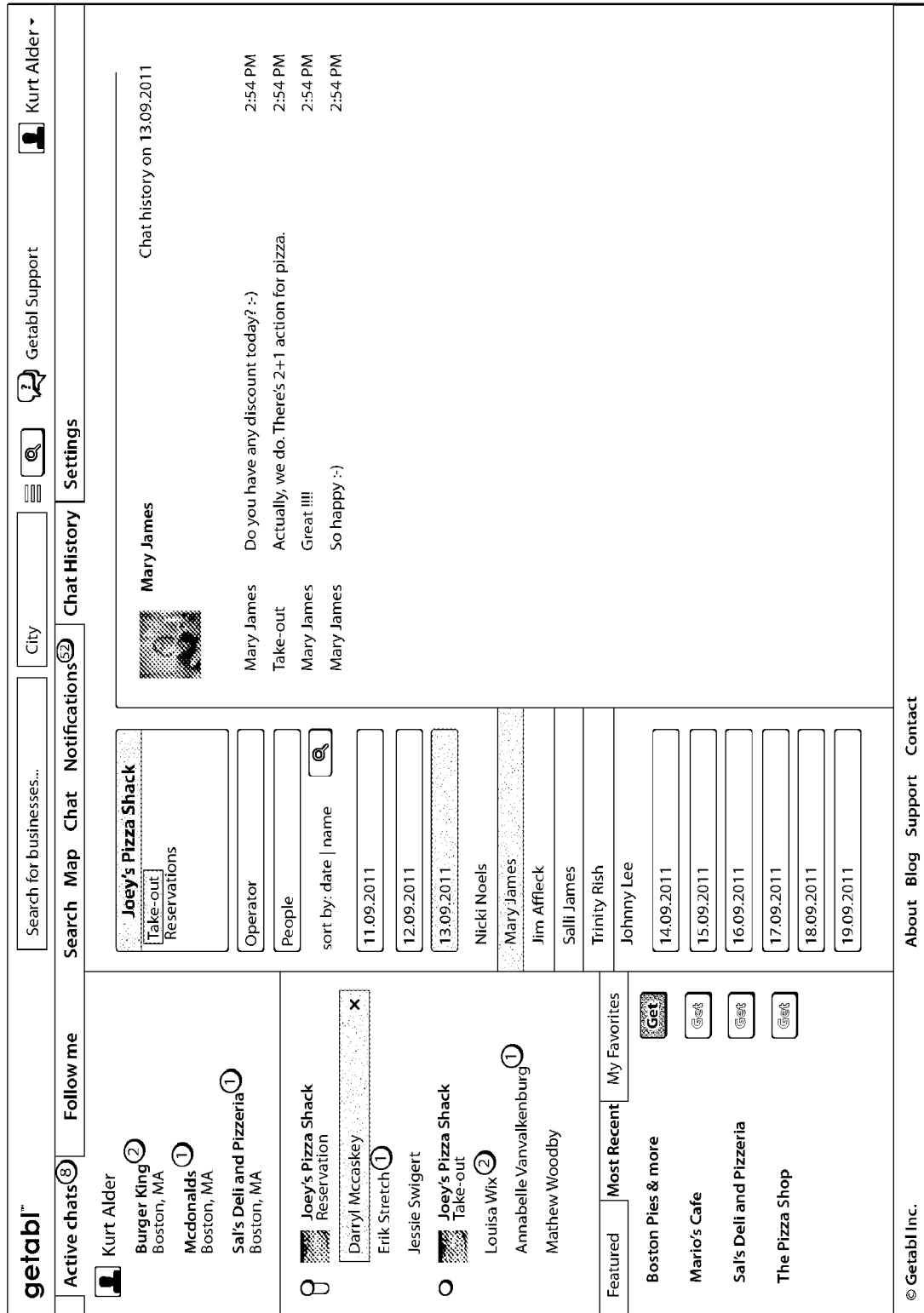


Fig. 30

getabl™		Search for businesses...		City	Getabl Support	Kurt Alder
Active chats ⁸	Follow me	Search	Map	Chat	Notifications ²	Settings
Kurt Alder Burger King² Boston, MA McDonalds¹ Boston, MA Sal's Deli and Pizzeria¹ Boston, MA		Joey's Pizza Shack Reservation Kurt Alder Washburn St. Boston, MA Primary Email: kurt.alder@gmail.com Add another email				
Joey's Pizza Shack Reservation Darryl McCaskey Erik Stretch¹ Jessie Swigert Joey's Pizza Shack Take-out Louisa Wix² Annabelle Vanvalkenburg¹ Mathew Woodby		Change my password Edit				
Manage Connections Getabl iOS app is connected Mobile phone Enter your mobile number Revoke Send code		Manage Notifications Send me notifications on: ☒ Email ☒ SMS ☒ Push notifications				
Followed Boston Pies & more Mario's Cafe Sal's Deli and Pizzeria The Pizza Shop		Follow me ON				
My Favorites Get Get Get Get		Chat Appearance Display my chat name as: ☒ Nickname ☐ Initials ☐ Name and Surname				
List of blocked users		Delete account				
© Getabl Inc. About Blog Support Contact						

Fig. 31

getabl™

Active chats¹⁰

Follow me

Kurt Alder

Joey's Pizza Shack²

Boston, MA

x

Mario's Cafe¹

Boston, MA

Sal's Deli and Pizzeria¹

Boston, MA

Joey's Pizza Shack

Boston, MA

Darryl Mccaskey¹

x

Erik Stretch¹

Jessie Swigert

Mario's Cafe

Boston, MA

Louisa Wix²

Annabelle Vanvalkenburg¹

Mathew Woodby

Featured

Most Recent

My Favorites

Joey's Pizza Shack

Get

Mario's Cafe

Get

Sal's Deli and Pizzeria

Get

The Pizza Shop

Get

Boston Pies & more

Get

Settings For

Kurt Alder

Joey's Pizza Shack

Boston, MA

Mario's Cafe

Boston, MA

Joey's Pizza Shack

Ok

Discounts every friday

Washburn St, Boston, MA

Ok

About

Some awesome information about my business.

145

Location

Your location address

Zip code

State

Operating area

Operating districts of your business

Business Contact person

Name of the contact person

Contact email

Add another

Location Contact person

Name of the contact person

Contact email

Add another

Business categories

Italian

Bur

Add another category

Italian restaurant

Italian pizzeria

Italian hotel

+

+

+

+

Add photo

Tags (Keywords)

Pizza x

Joey x

Joey's x

Vegetarian

+

Suggested tags:

Pizzeria

Lasagna

Pizzeria

Napolitan

Vegetarian

Vegetarian pasta

Vegetarian pizza

Manage users

Edit

This profile is currently

Public

Private

Fig. 32-1

Jesse Swigert   Mario's Cafe Boston, MA Louisa Wix ^② Annabelle Vanvalkenburg ^① Mathew Woodby	145 Location Your location address Zip code State Operating area Operating districts of your business Business Contact person Name of the contact person Contact email Add another Location Contact person Name of the contact person Contact email Add another
Featured Most Recent My Favorites	Business categories Italian Italian restaurant Italian pizzeria Italian hotel Bur Add another category + + + + Add photo
Joey's Pizza Shack  Mario's Cafe  Sal's Deli and Pizzeria  The Pizza Shop  Boston Pies & more 	Tags (Keywords) Pizza x Joey x Joey's x Vegetarian + Suggested tags: Pizzeria Lasagna Pizzeria Neapolitan Vegetarian Vegetarian pasta Vegetarian pizza Manage users  Edit This profile is currently Public ☒ Private
	Payment options Payment details: ☒ Credit card ☐ PayPal ☐ Moneybookers  Visa  MasterCard  American Express Credit card number: 5587 Expiration date: month year CVV/C2CVcode: Card holder: Amonio Julo Location: location address Zip code State
© Getabl Inc. About Blog Support Contact	

Fig. 32-2

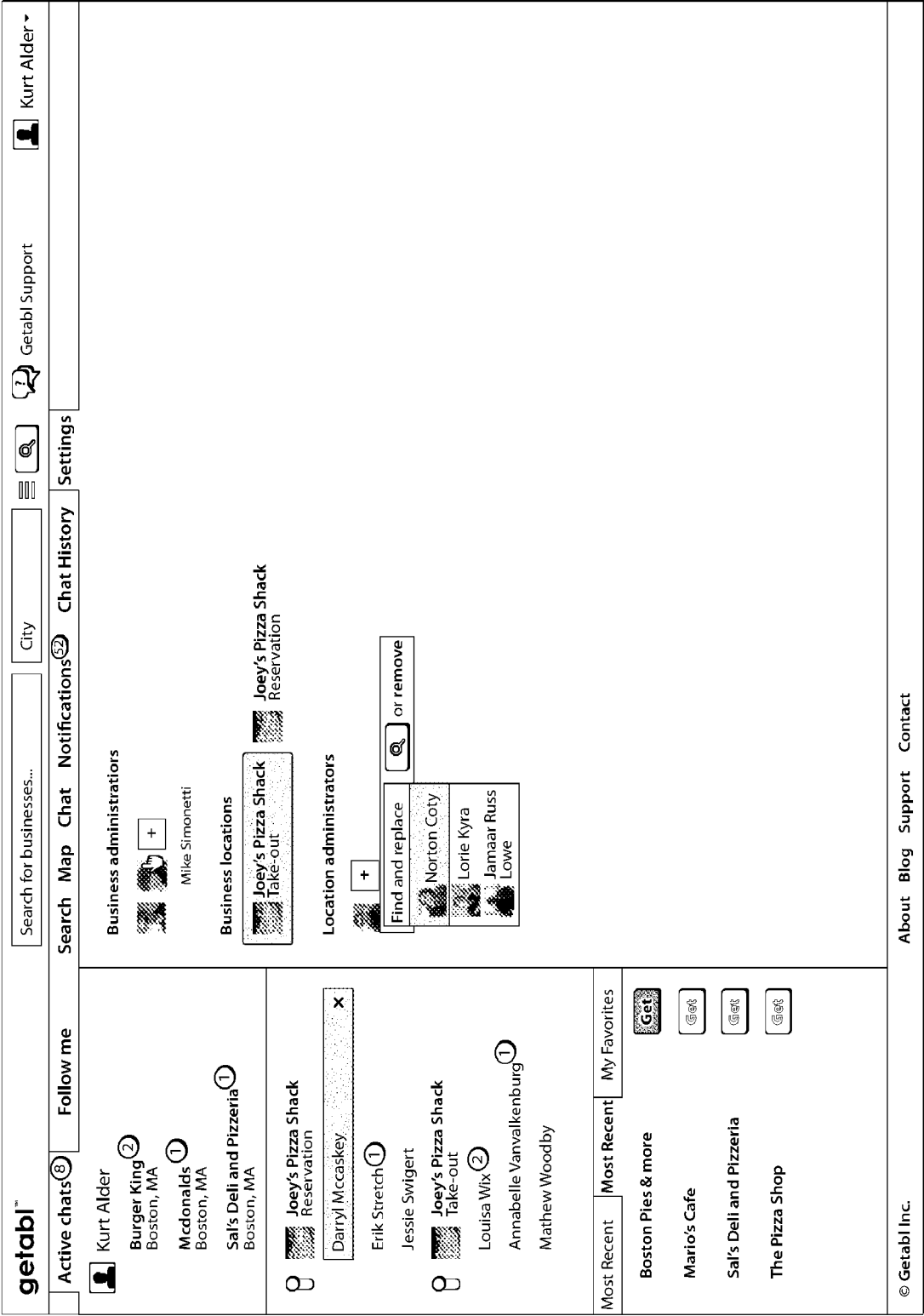


Fig. 33

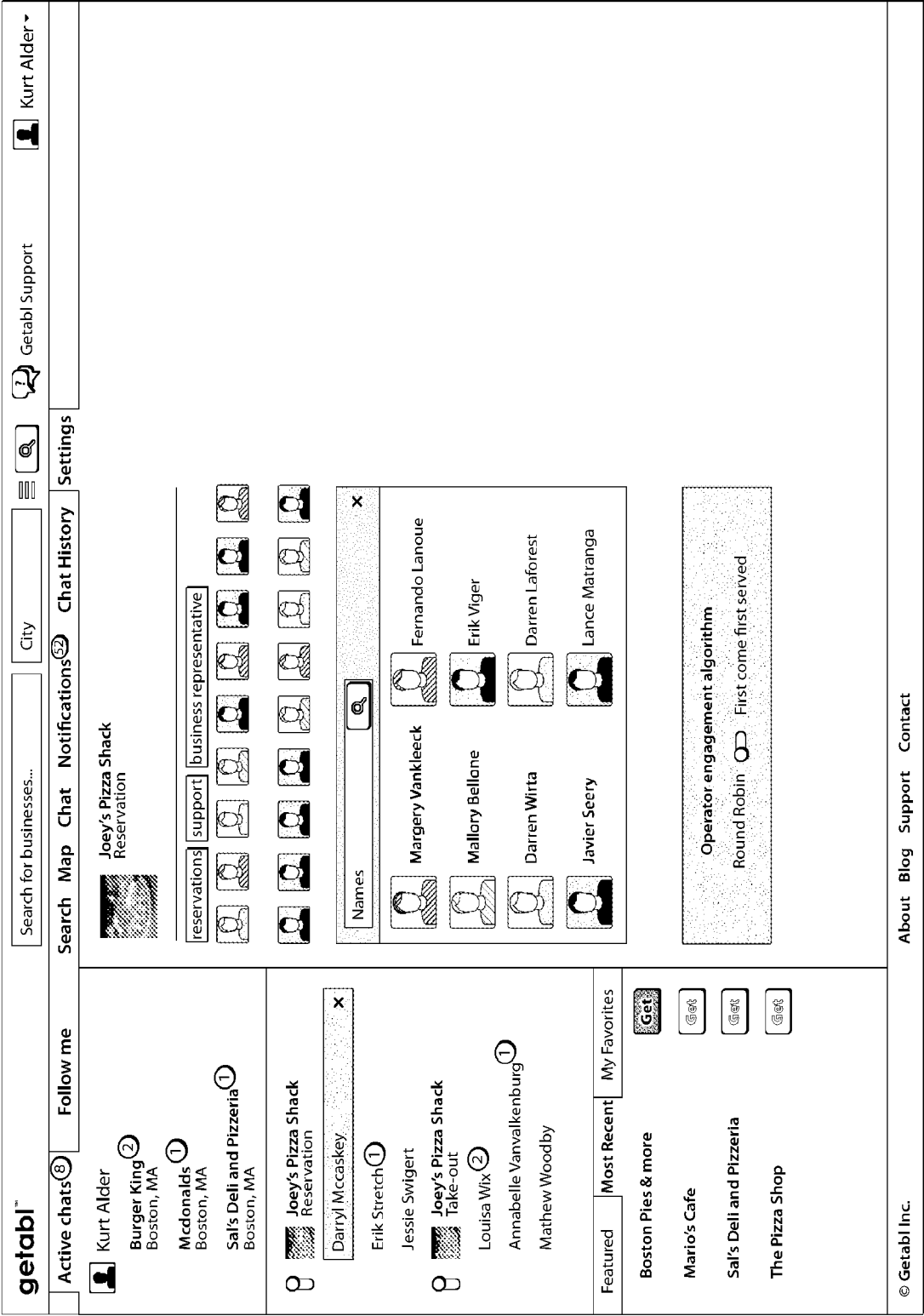


Fig. 34

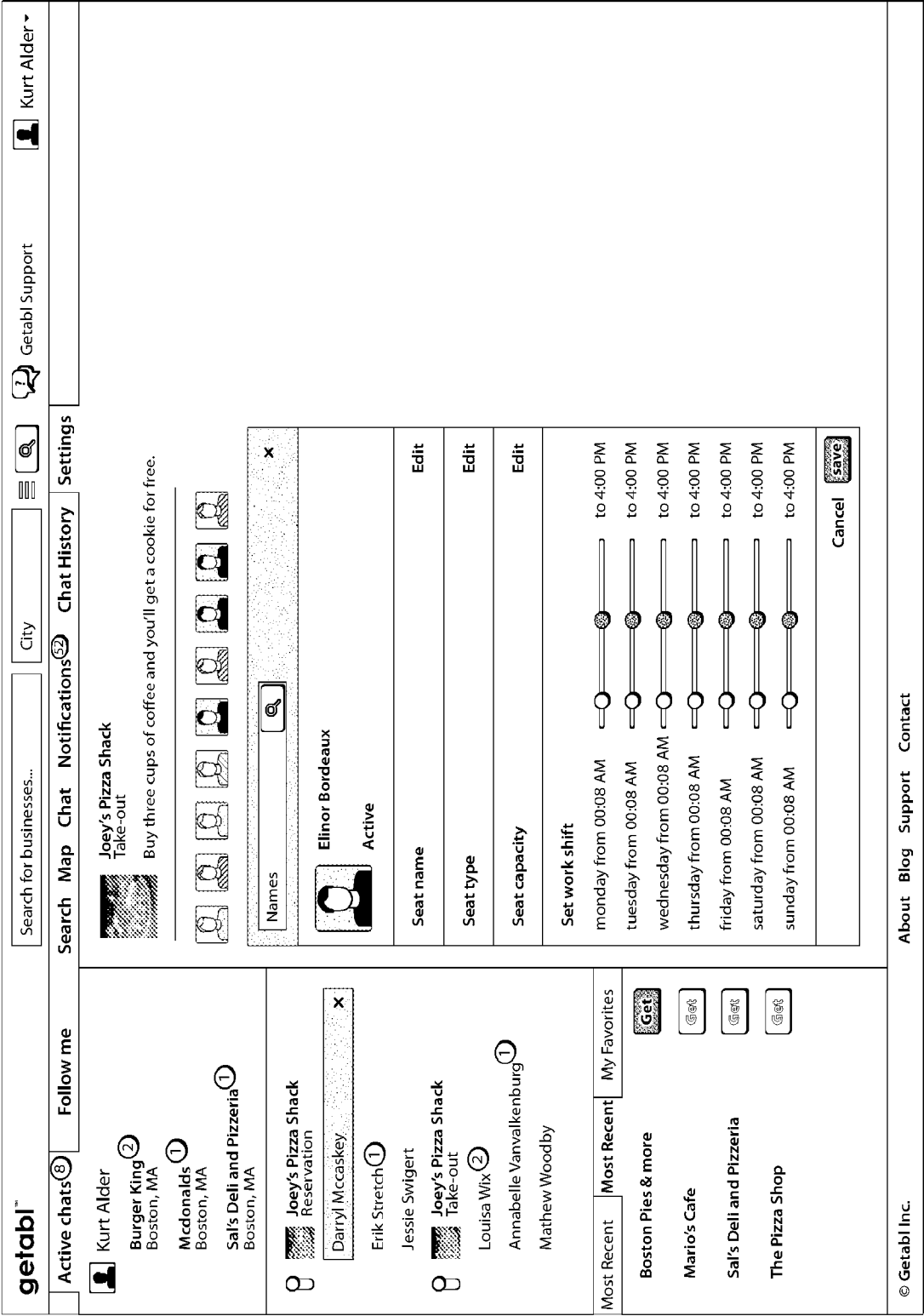


Fig. 35

getabl™

Search for businesses...

City

Getabl Support

Kurt Alder

Active chats8

Follow me

Kurt Alder

Burger King2
Boston, MA

Mcdonalds1
Boston, MA

Sal's Deli and Pizzeria1
Boston, MA

Joey's Pizza Shack
Reservation

Darryl Mccaskey

Erik Stretch1

Jessie Swigert

Joey's Pizza Shack
Take-out

Louisa Wix2

Annabelle Vanvalkenburg1

Mathew Woodby

Featured

Most Recent

My Favorites

Boston Pies & more

Mario's Cafe

Sal's Deli and Pizzeria

The Pizza Shop

Search

Map

Chat

Notifications2

Chat History

Settings

Basic settings

Kurt Alder

Take-out

Reservations

Email settings

Primary Email: Kurtadler@gmail.com verified remove

Secondary Email: adler555@gmail.com add

Add another email

Phone settings

Primary number: 3584 39 555 verified remove

Add another number

Notification settings

☒ Consumer notifications

☒ via Email

☒ via Phone

☒ via Email

☐ via Phone

☐ Admin notifications

kurt.adler@gmail.com

3584 39 555

kurt.adler@gmail.com

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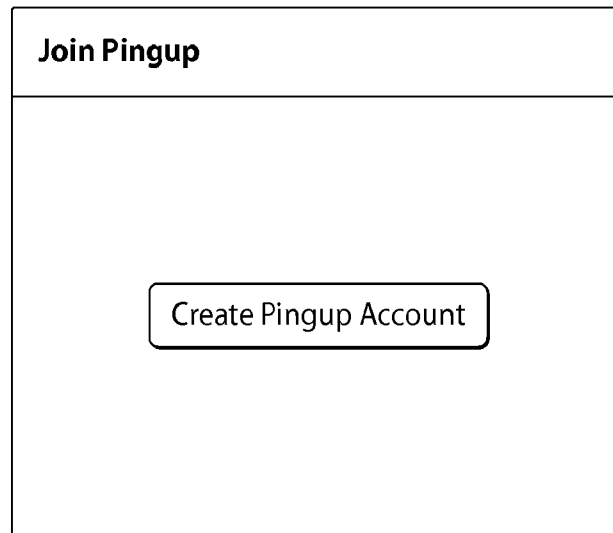
About

Blog

Support

Contact

Fig. 36



A rectangular box representing a user interface screen. The top section is a header with the text "Join Pingup". Below the header is a large white area containing a single button with the text "Create Pingup Account".

Fig. 37



A rectangular box representing a user interface screen for account settings. The top section is a header with the text "Pingup Account Settings". Below the header are three input fields, each with a label and a text box:

- First Name: Joe
- Last Name: Smith
- Email Address: joe.smith@emailprovider.com

At the bottom of the screen, there are two buttons: "Next" and "Back".

Fig. 38

Additional Features (Optional)

In addition to chatting with Businesses for free. You can also claim your own business, or you can setup a private chat host account to answer chats from people you specify.

 **Business Location Profile** ➔

 **Business Event Profile** ➔

 **Chat Host Profile** ➔

Skip This Step

Back

Fig. 39

Chat Host Profile Setup

Profile Name (aka "handle" - required)
 Available

Your Name (optional)
☒ Don't show my name
☐ Show my name "Joe Smith"

Address (optional)

 Boston, MA ☒ Keep Private

Phone number (optional)

Website URL (optional)

Associate Profile with Business (optional)

Fig. 40

Chat Channel Setup

Channels let you specify different topics much like a phone directory might have multiple extensions. Keep it simple with one, or add more to guide the conversation:

Channel Name
 

Profile Expiration

☐ No Expiration:

☒ Set Expiration:



Select a date range

Fig. 41

Chat Channel Setup

Configure Agents

How do you want to handle incoming chats?

☒

 I'll answer all incoming chats

☐ I will allow other agents to answer chats

☐ I will configure a robot to handle chats

☒ Forward chats to my SMS number

☐ Forward chats to my email

Next

Cancel

Fig. 42

Chat Channel Agents

Configure Agents

How do you want to handle incoming chats?

☐ I'll answer all incoming chats

☒ I will allow other agents to answer chats

☐ I will configure a robot to handle chats

Invite Other Agents

jane.brown@emailprovider.com,
ed.jones@emailprovider.com,
mark.slater@emailprovider.com

Routing Algorithm

☒ Round-Robin

☐ First Come First Serve

☐ Group Chat

Next Cancel

Fig. 43

Chat Channel Agents

Configure Agents

How do you want to handle incoming chats?

☐ I'll answer all incoming chats

☐ I will allow other agents to answer chats

☒ I will configure a robot to handle chats

Configure Robot

--Select Robot--	▼
Craigslist Robot	
Facebook Robot	
Twitter Robot	
MyCustomRobot	

Next

Cancel

Fig. 44

Manage Channels

Channel Name



Sharing Options

Public chat link for this channel:
<http://pingup.com/b/1348156706225/c/1350572030516>

Social Share

Embed Widget

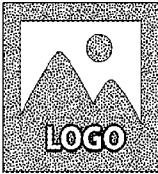
 Add another channel (optional)

Fig. 45

Search Results: Businesses or Events

Business Name, Event Name or Keyword

Current Location



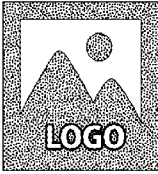
Business Location Name

Business location address

City, State

Text

Call



Business Location Name

Business location address

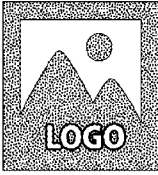
City, State

Text

Call

Book

Play



Business Location Name

Business location address

City, State

Text

Call

Fig. 46

SUBSTITUTE SHEET (RULE 26)

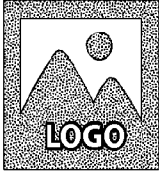
Search Results: Chat Hosts	
 Name or Handle	
	ChatHostHandleName Optional Real Name Optional Additional Info Text
	ChatHostHandleName Optional Real Name Optional Additional Info Text Voice Video
	ChatHostHandleName Optional Real Name Optional Additional Info Text

Fig. 47

Chat Host Profile Detail (End-user view)	
	SmithSterX48 Joe Smith Optional additional info 
	How can I help you? 
	Channel Name 2 
	Channel Name 3 
Related Information	
	(555) 123-4567
	usernamepecialwebsite.com
	View on Map
	Facebook Profile
	Twitter Profile

Fig. 48

Business Location Profile Detail (End-user view)



Business Name
Address Line 1
Address Line 2


4.25mi

Business description text appears here. This area of text is controlled by the business owner and they can promote something special or instruct users on best way to interact with them.

 How can I help you? 

 Channel Name 2 

 Channel Name 3 

 Book a Reservation 

Related Information

 (555) 123-4567

 businesswebsite.com

 View on Map

 Yelp Profile

 Twitter Profile

Fig. 49

Business Robot Iteration Detail (End-user view)

 **Business Name** Book a Reservation Cancel

☒ Copy Your Profile Credentials

Your Name

Phone Number

Reservation Date
 / / 

Reservation Time
 ▼

Party Size
 ▼

Notes or Special Requests

Book Now

Q

W

E

R

T

Y

U

I

O

P

A

S

D

F

G

H

J

K

L



Z

X

C

V

B

N

M



.?123

space

return

Fig. 50

Business Chat Detail (End-user view)

Chat

Profile



Thank you for your reservation!

We look forward to seeing Consumer ChatterName's party of 4 on Sunday 3/15/13 at 7:45pm.

Your host will review your notes & special requests prior to your arrival.

We've also sent you an email with your reservation number #3045568

You can modify your reservation via the button below up to 24hrs in advance, or simply chat with us here or call us if you have other questions.

Edit Reservation



Your message...

Send

QWERTYUIOP

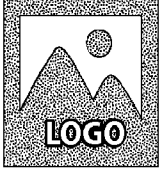
ASDFGHJKL

↑ZXCVBNM↵

.?123spacereturn

Fig. 51

Business Location Profile Detail (End-user view)



Business Name
Address line 1
Address line 2


4.25mi

Business description text appears here. This area of text is controlled by the business owner and they can promote something special or instruct users on best way to interact with them.


How can I help you?




Channel Name 2




Channel Name 3




Book a Reservation



Related People (Chat Hosts)



ChatHostHandleName
Optional Real Name
Optional Additional Info

Text



ChatHostHandleName
Optional Real Name
Optional Additional Info

Text

Voice

Video

Related Information


(555) 123-4567


usernamespecialwebsite.com


View on Map


Yelp Profile

Fig. 52