

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

CLAIM CHART FOR U.S. PATENT NO. 9,454,748

Choice Hotels Mobile Android App

October 16, 2017

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

CLAIM 19	Choice Hotels Mobile Android App
A method for managing data comprising the steps of:	To the extent the preamble is limiting, the Choice Hotels mobile Android app (“the Choice App”) implements a method for managing data. For example, the Choice App manages data, including the user’s location: BOOK ANYWHERE Find the right hotel and book your room at the lowest rate. > Search for hotels near you > View photos, see virtual tours and read real reviews > Make your reservation with a few taps https://www.choicehotels.com/about/mobile DO YOU USE MY DEVICE'S GEO-LOCATION DATA? Our mobile apps may use your device's Global Positioning System (GPS) technology to locate a hotel near you and/or to provide you with other relevant location-based information and/or services. We will abide by your device's settings when accessing geo-location data. To the extent any geo-location data is combined with personal information, that information will be treated as personal information in accordance with this policy. https://www.choicehotels.com/legal/privacy-policy

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

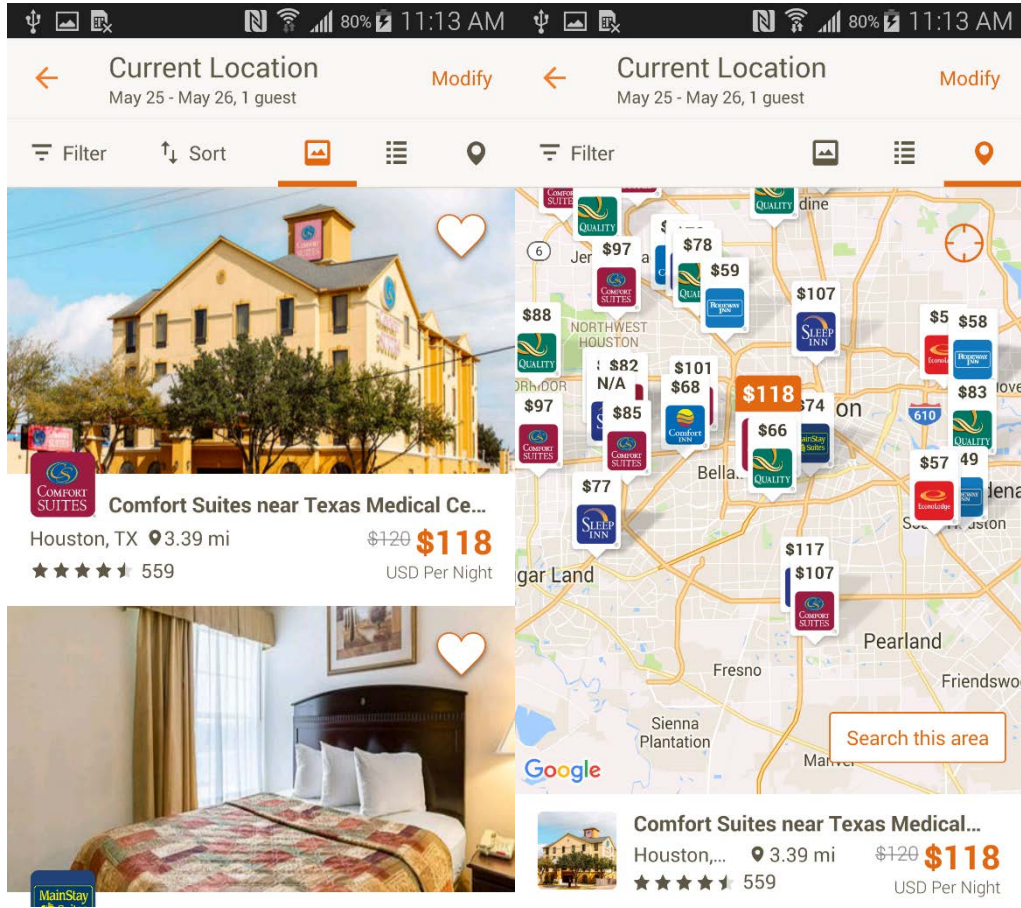
CLAIM 19	Choice Hotels Mobile Android App
	The Choice App manages data, including the user selecting the type of hotel, type of room, and duration of stay, from a list of properties near the user's location:  The screenshot displays the Choice Hotels mobile application interface on a Samsung Galaxy S5. The top status bar shows the time as 11:13 AM and battery at 80%. The app's header includes a back arrow, 'Current Location', the dates 'May 25 - May 26, 1 guest', a 'Modify' button, and another back arrow. Below the header is a navigation bar with icons for 'Filter', 'Sort', a map view (active), a list view, a location pin, another 'Filter' icon, a camera icon, a list icon, and a location pin. The main content area is split: the left side shows a large image of a 'Comfort Suites near Texas Medical Ce...' hotel in Houston, TX, 3.39 miles away, with a price of \$118 USD Per Night and 559 reviews. The right side shows a map of the area with various hotel pins and prices, including '\$118' for the selected hotel. A 'Search this area' button is visible on the map. At the bottom, there is a smaller version of the hotel listing card. Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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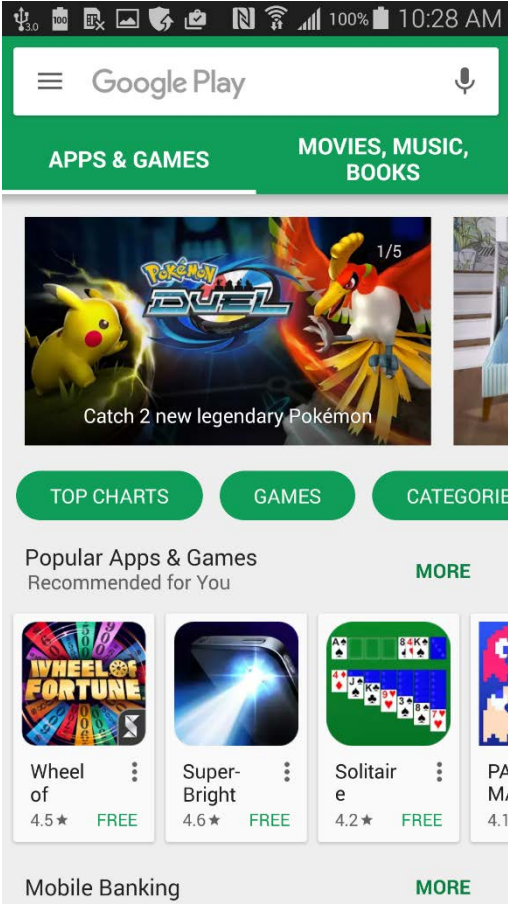
CLAIM 19	Choice Hotels Mobile Android App
(a) establishing communications between a handheld computing device and an originating computer wherein said handheld computing device has a GPS integral thereto;	In order to obtain the benefits received from using the Choice Hotels App, the user must establish communications between the handheld computing device, such as the user's smartphone, and an originating computer, such as the server(s) hosting the Google Play Store:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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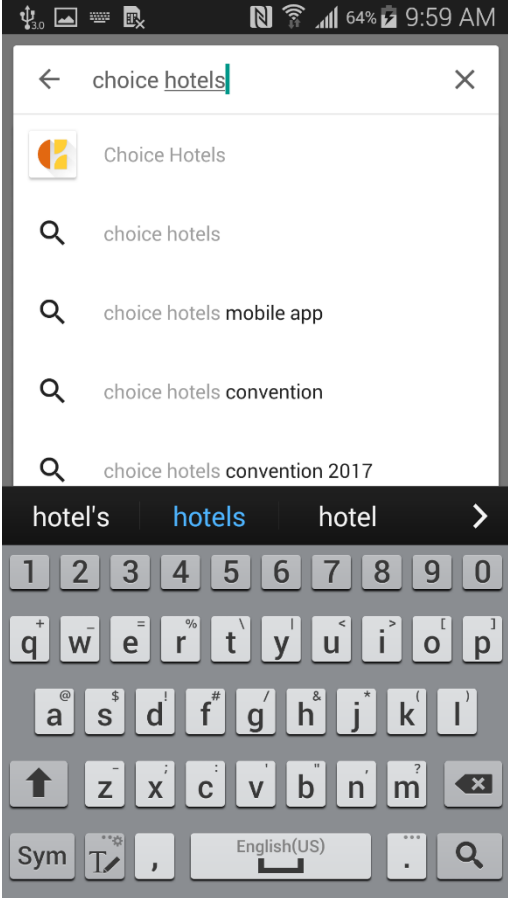
CLAIM 19	Choice Hotels Mobile Android App
	The user is able to search for the Choice Hotels App:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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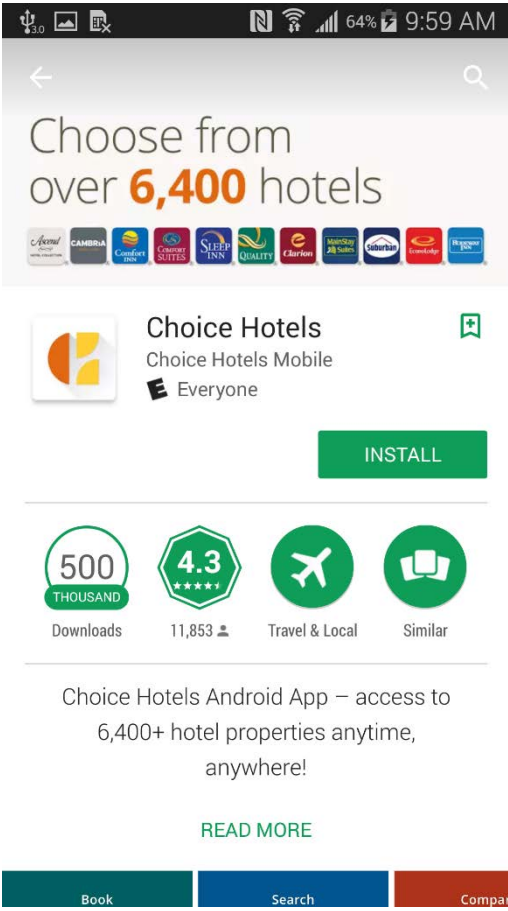
CLAIM 19	Choice Hotels Mobile Android App
	The user installs the Choice Hotels App onto the smartphone:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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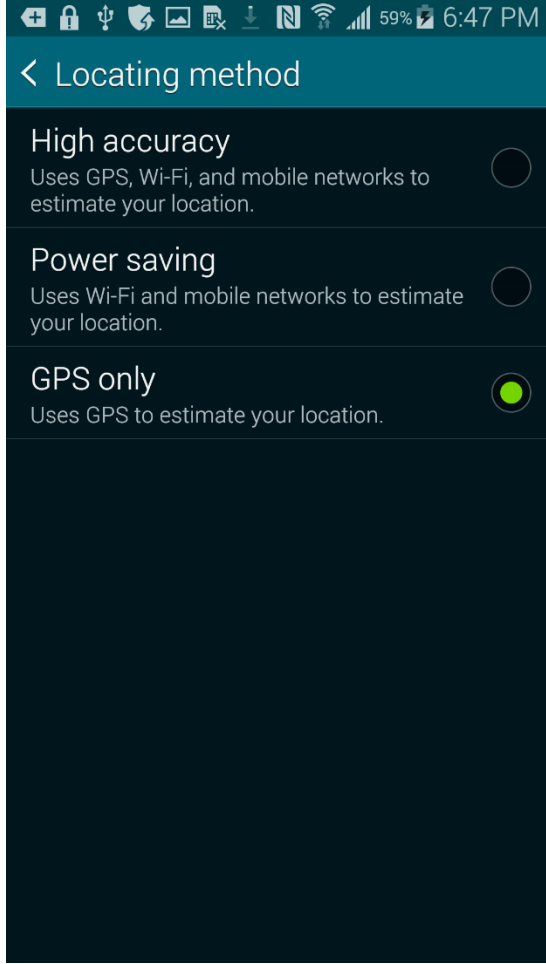
CLAIM 19	Choice Hotels Mobile Android App
	The smartphone contains an internal, integral GPS antenna:  The screenshot shows the 'Locating method' settings in the Choice Hotels Mobile Android App. The status bar at the top indicates 59% battery and 6:47 PM. The settings list three options: 'High accuracy' (uses GPS, Wi-Fi, and mobile networks), 'Power saving' (uses Wi-Fi and mobile networks), and 'GPS only' (uses GPS). The 'GPS only' option is selected, indicated by a green dot and a red arrow pointing to it. Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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CLAIM 19	Choice Hotels Mobile Android App
	Smartphones operating Android are able to receive GPS signals: Everyone knows satellite navigation is great for drivers, but the global positioning system (GPS) is even better for the latest generation of smart phone users. With GPS, an Android phone knows where it is, but that's just the beginning. Add a few apps and it'll tell you where to go, how to get there and what to expect when you arrive. Source: https://www.cnet.com/how-to/android-phone-gps-tips/

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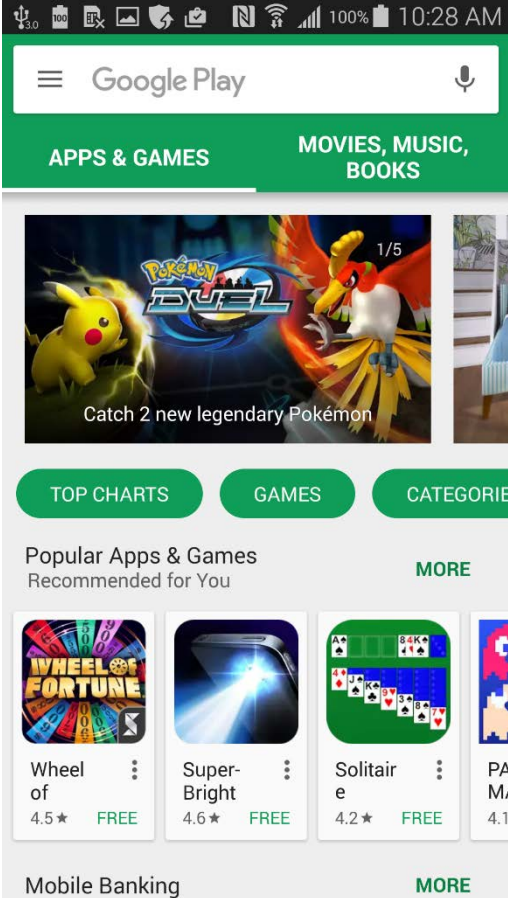
CLAIM 19	Choice Hotels Mobile Android App
(b) receiving within said handheld computing device a transmission of a tokenized questionnaire from said originating computer, said tokenized questionnaire including at least one question requesting location identifying information, said tokenized questionnaire comprising a plurality of device independent tokens;	In order to obtain the benefits received from using the Choice Hotels App, the handheld computing device (smartphone) must receive the transmission (download) of a tokenized questionnaire onto the smartphone, which is the Choice Hotels App. A search is performed for the Choice Hotels App:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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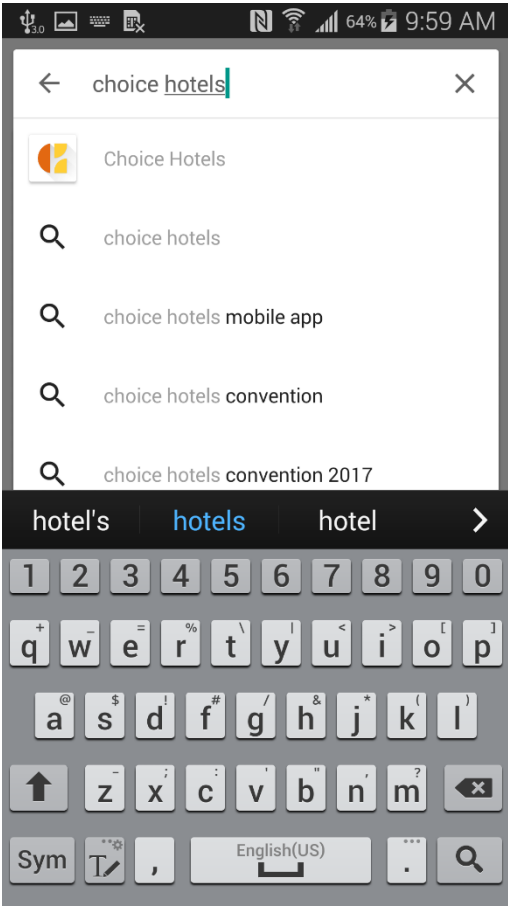
CLAIM 19	Choice Hotels Mobile Android App
	 The screenshot displays the Choice Hotels mobile application interface on an Android device. At the top, the status bar shows various icons and the time 9:59 AM. Below the status bar is a search bar containing the text 'choice hotels'. A list of search suggestions is visible below the search bar, including 'Choice Hotels', 'choice hotels', 'choice hotels mobile app', 'choice hotels convention', and 'choice hotels convention 2017'. A keyboard is shown at the bottom of the screen, with the word 'hotels' highlighted in blue. The keyboard includes standard QWERTY keys, a 'Sym' key, and a language selector set to 'English(US)'. Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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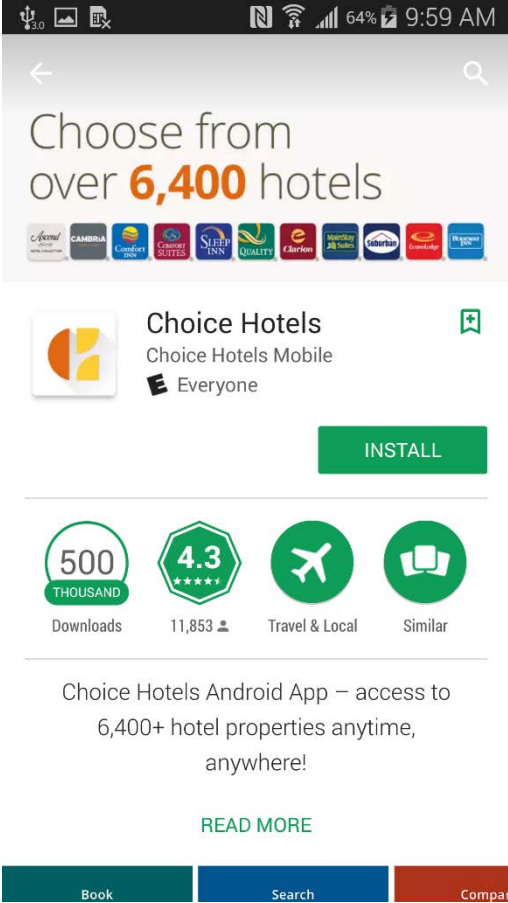
CLAIM 19	Choice Hotels Mobile Android App
	The Choice Hotels App is selected, which gives the user the option to install:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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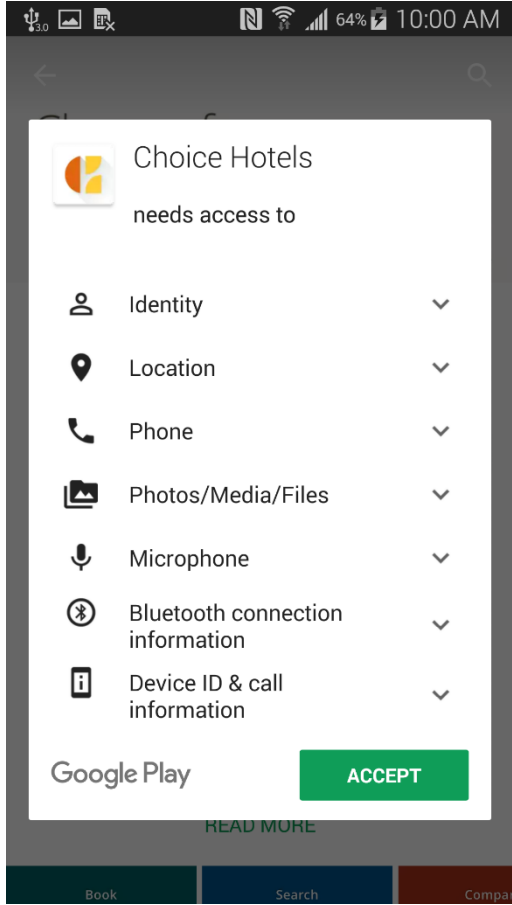
CLAIM 19	Choice Hotels Mobile Android App
	When “Install” is selected, the user is informed that the Choice Hotels App requires access to the user’s location. In order to obtain the benefits received from using the Choice Hotels App, and begin downloading the app, the user must select “Accept”:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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CLAIM 19	Choice Hotels Mobile Android App
	The Choice Hotels App is a tokenized questionnaire comprising a plurality of device independent tokens, and is downloaded as bytecode, typically a type of Java, such as “.dex.” With the latest I/O conference, Google has finally publicly announced its plans for its new runtime on Android. The Android RunTime, ART, is the successor and replacement for Dalvik, the virtual machine on which Android Java code is executed on. We've had traces and previews of it available with KitKat devices since last fall, but there wasn't much information in terms of technical details and the direction Google was heading with it. Contrary to other mobile platforms such as iOS, Windows or Tizen, which run software compiled natively to their specific hardware architecture, the majority of Android software is based around a generic code language which is transformed from “byte-code” into native instructions for the hardware on the device itself. First, ART is designed to be fully compatible with Dalvik's existing byte-code format, “dex” (Dalvik executable). As such, from a developer's perspective, there are no changes at all in terms of having to write applications for one or the other runtime and no need to worry about compatibilities. Source: http://www.anandtech.com/show/8231/a-closer-look-at-android-runtime-art-in-android-l/

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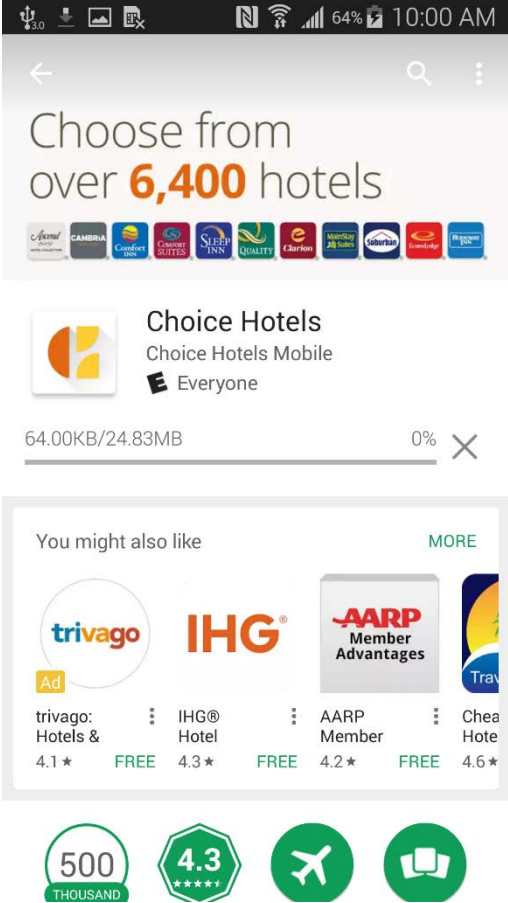
CLAIM 19	Choice Hotels Mobile Android App
	The tokenized questionnaire (Choice Hotels App) is downloaded:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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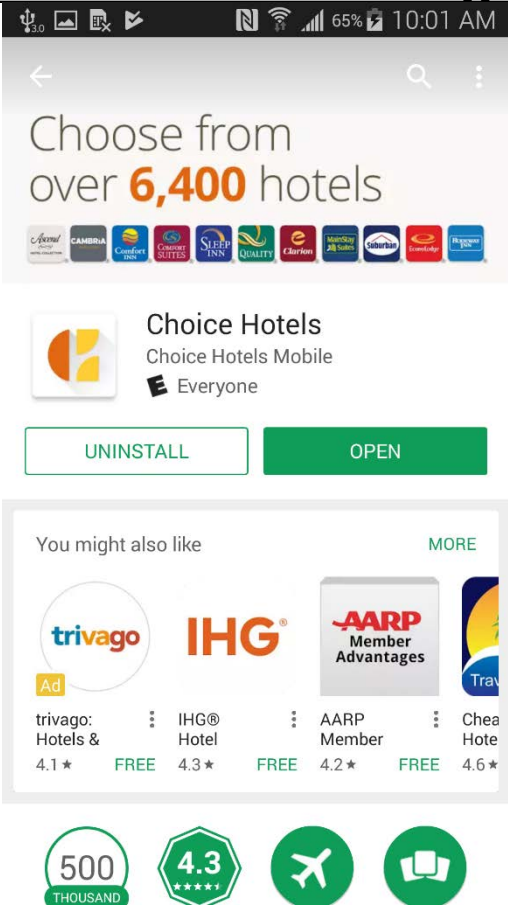
CLAIM 19	Choice Hotels Mobile Android App
	 Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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CLAIM 19	Choice Hotels Mobile Android App
	The questionnaire includes features that utilize the user's location, including the ability to search for nearby hotels:  BOOK ANYWHERE Find the right hotel and book your room at the lowest rate. > Search for hotels near you > View photos, see virtual tours and read real reviews > Make your reservation with a few taps Source: https://www.choicehotels.com/about/mobile DO YOU USE MY DEVICE'S GEO-LOCATION DATA? Our mobile apps may use your device's Global Positioning System (GPS) technology to locate a hotel near you and/or to provide you with other relevant location-based information and/or services. We will abide by your device's settings when accessing geo-location data. To the extent any geo-location data is combined with personal information, that information will be treated as personal information in accordance with this policy. Source: https://www.choicehotels.com/legal/privacy-policy

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CLAIM 19	Choice Hotels Mobile Android App
	When the user first opens the Choice Hotels App (the tokenized questionnaire), the internal Android Runtime (previously Dalvik) application compiles and executes the bytecode (tokens) into the native operating system code for operation by the user's smartphone (handheld computing device). Thus, the app is device independent. Contrary to other mobile platforms such as iOS, Windows or Tizen, which run software compiled natively to their specific hardware architecture, <u>the majority of Android software is based around a generic code language which is transformed from "byte-code" into native instructions for the hardware on the device itself.</u> Source: http://www.anandtech.com/show/8231/a-closer-look-at-android-runtime-art-in-android-l/ ART and Dalvik Android runtime (ART) is the managed runtime used by applications and some system services on Android. ART and its predecessor Dalvik were originally created specifically for the Android project. ART as the runtime executes the Dalvik Executable format and Dex bytecode specification. <u>ART and Dalvik are compatible runtimes running Dex bytecode,</u> so apps developed for Dalvik should work when running with ART. However, some techniques that work on Dalvik do not work on ART. For information about the most important issues, see Verifying App Behavior on the Android Runtime (ART). Source: https://source.android.com/devices/tech/dalvik/

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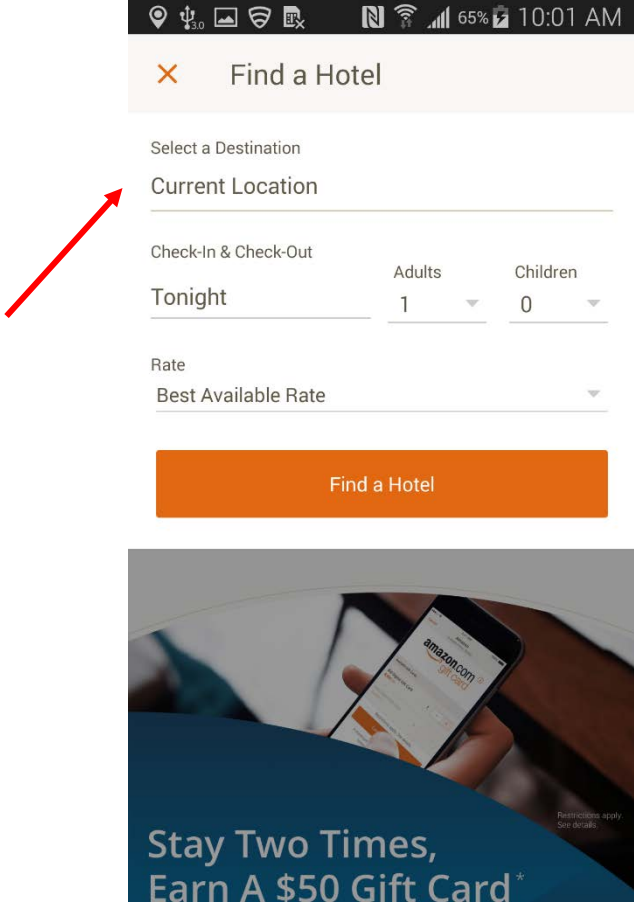
CLAIM 19	Choice Hotels Mobile Android App
	For example, when the “Find a Hotel” option is selected in the Choice Hotels App, the user’s smartphone determines its current GPS coordinates (request location identifying information). The user is then able to search for hotels near the user’s current location, which is determined from the phone’s current GPS coordinates: The user chooses “Select a Destination”  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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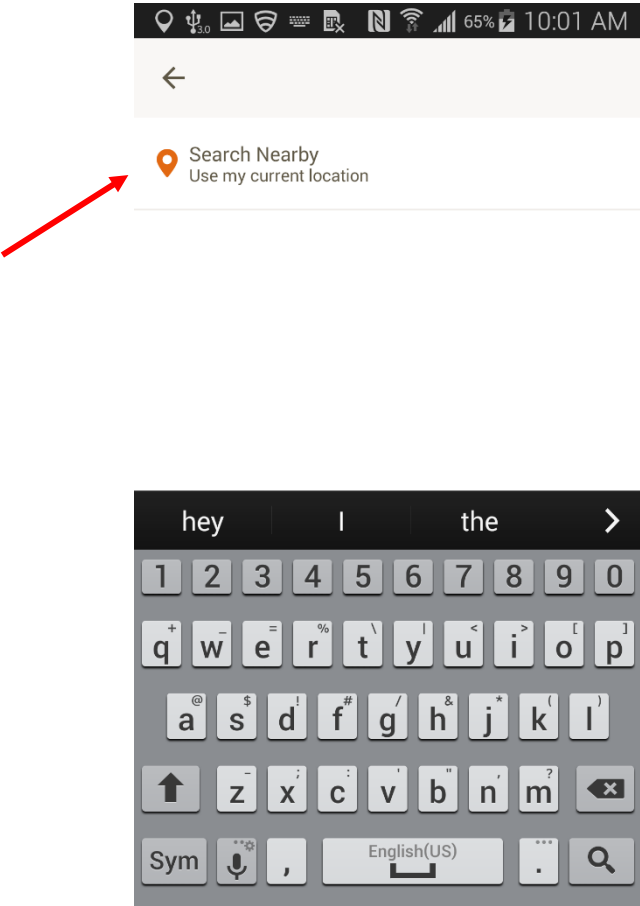
CLAIM 19	Choice Hotels Mobile Android App
	The user is presented with the option to “Search Nearby – Use my current location”  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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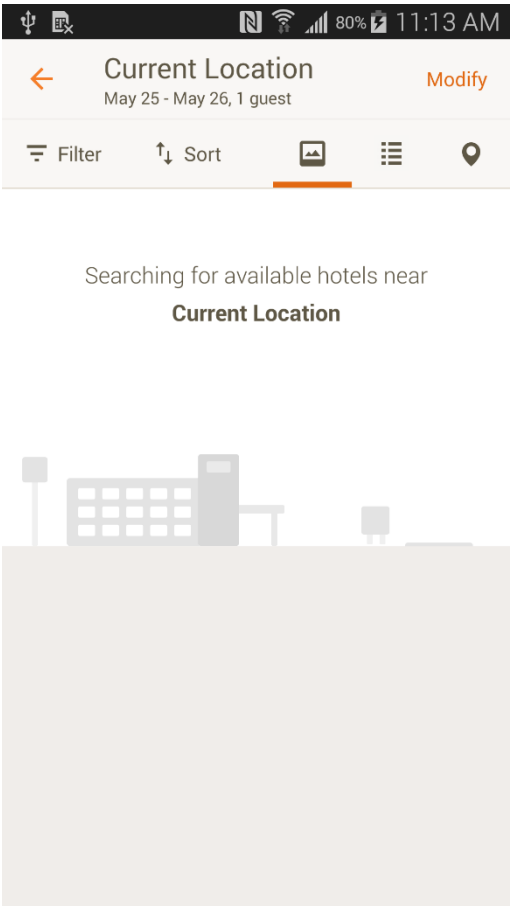
CLAIM 19	Choice Hotels Mobile Android App
	 Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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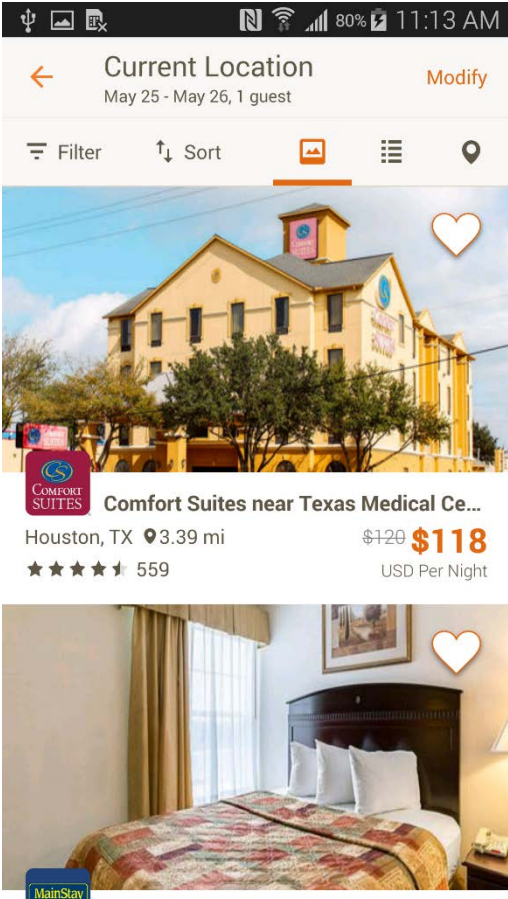
CLAIM 19	Choice Hotels Mobile Android App
	Once the search is completed, the available Choice Hotels are presented to the user in either list or map format:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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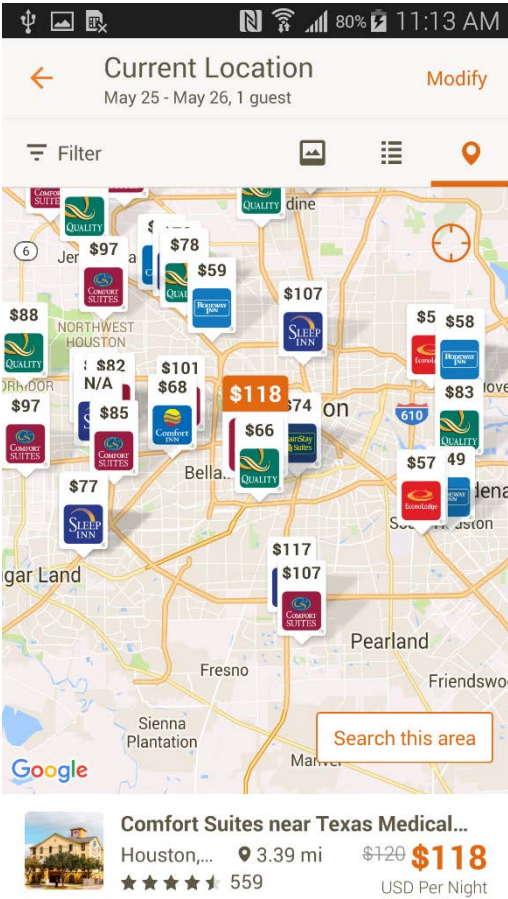
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	 Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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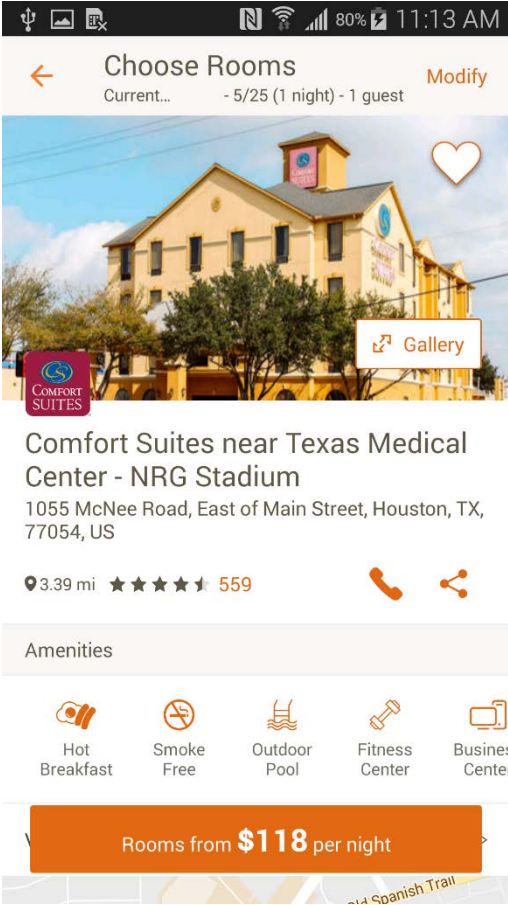
CLAIM 19	Choice Hotels Mobile Android App
	The user next selects the desired Choice Hotel property, which provides detailed information about that property, as well as the ability to reserve a room, write a review, and call the property:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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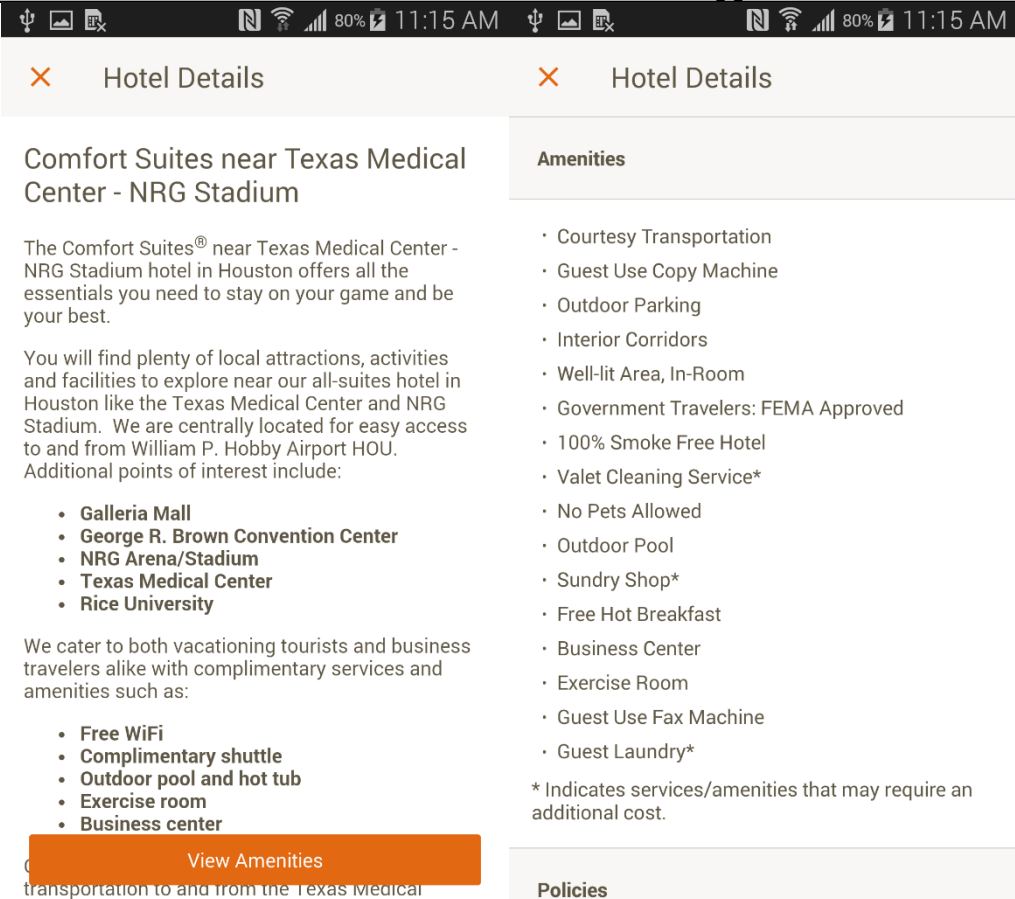
CLAIM 19	Choice Hotels Mobile Android App
	 Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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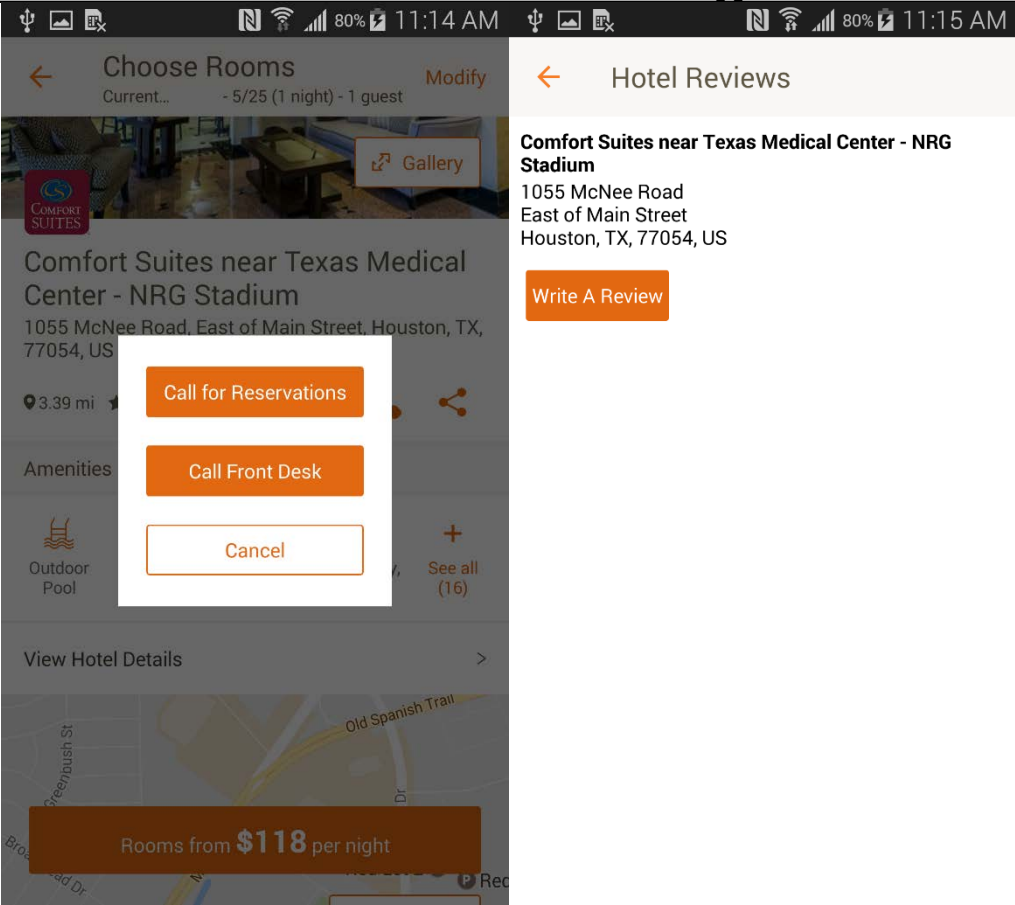
CLAIM 19	Choice Hotels Mobile Android App
	 The image displays two screenshots from the Choice Hotels Mobile Android App. The left screenshot shows the 'Choose Rooms' screen for 'Comfort Suites near Texas Medical Center - NRG Stadium'. The screen includes a 'Modify' button, a 'Gallery' button, and a modal overlay with three buttons: 'Call for Reservations', 'Call Front Desk', and 'Cancel'. The right screenshot shows the 'Hotel Reviews' screen for the same hotel, displaying the address '1055 McNee Road, East of Main Street, Houston, TX, 77054, US' and a 'Write A Review' button. Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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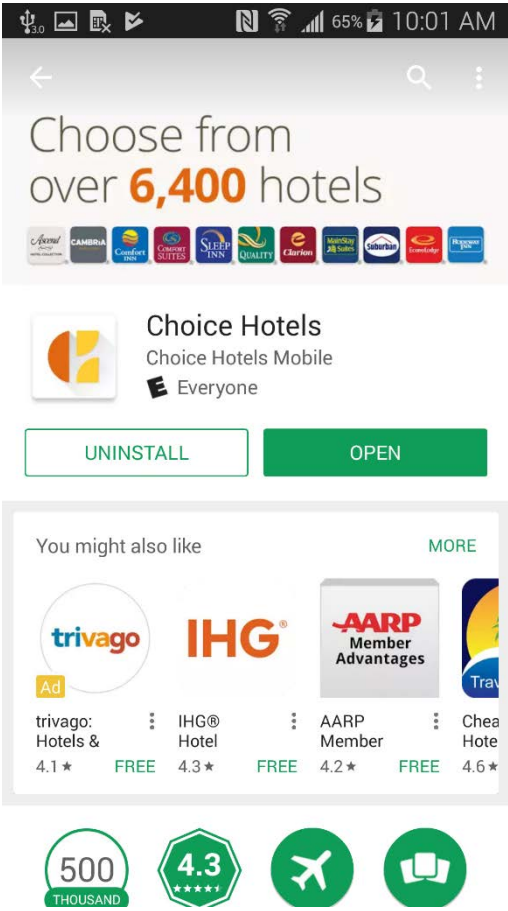
CLAIM 19	Choice Hotels Mobile Android App
(c) ending said communications between said handheld computing device and said originating computer;	After the Choice Hotels App is downloaded, communication between the user's phone and the originating computer, such as the Google Play Store, ends:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone
(d) after said communications has been ended,	Communications between the smartphone and the originating computer (e.g., Google Play Store server) are ended.

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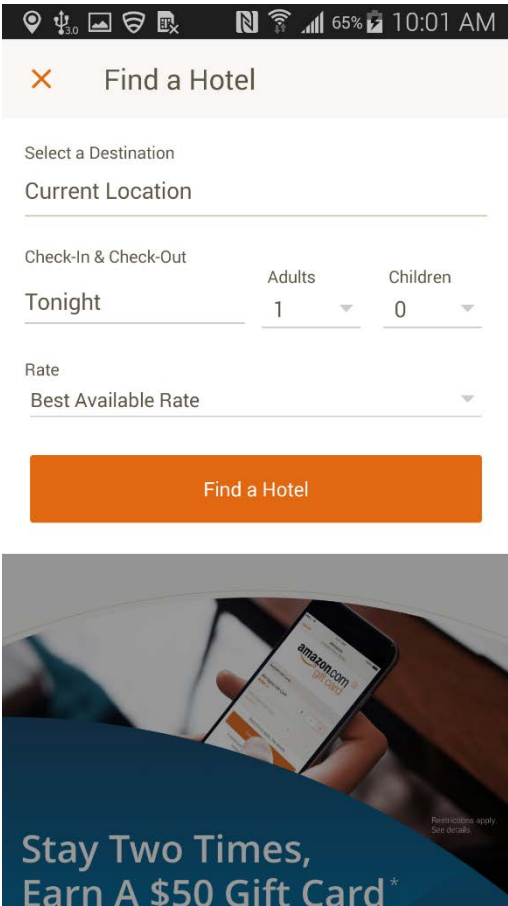
CLAIM 19	Choice Hotels Mobile Android App
(d1) executing at least a portion of said plurality of tokens comprising said questionnaire on said handheld computing device to collect at least one response from a first user, and,	The user executes at least a portion of the plurality of tokens comprising the questionnaire when, for example, the “Find a Hotel” option is selected. The user’s smartphone determines its current GPS coordinates to then determine the Choice Hotel properties near the user’s current location. The questionnaire also requires the user to select the “Check-In & Check-Out” dates, the number of adults, and children, and the applicable rate:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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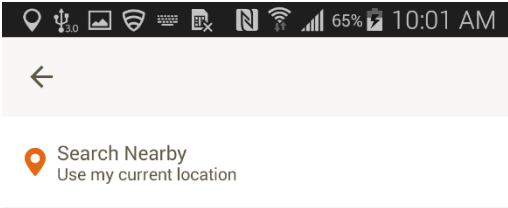
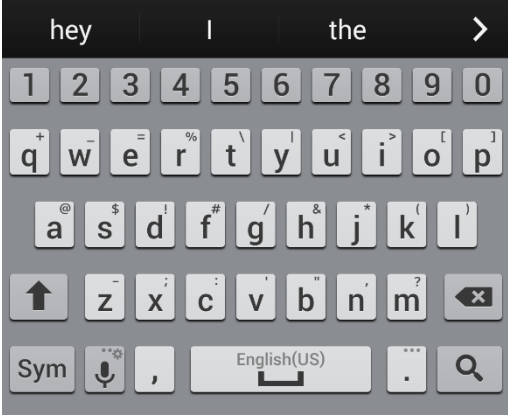
CLAIM 19	Choice Hotels Mobile Android App
	When the user selects “Search Nearby,” the Choice Hotels App automatically determines the user’s current location (determined using the smartphone’s internal GPS)   Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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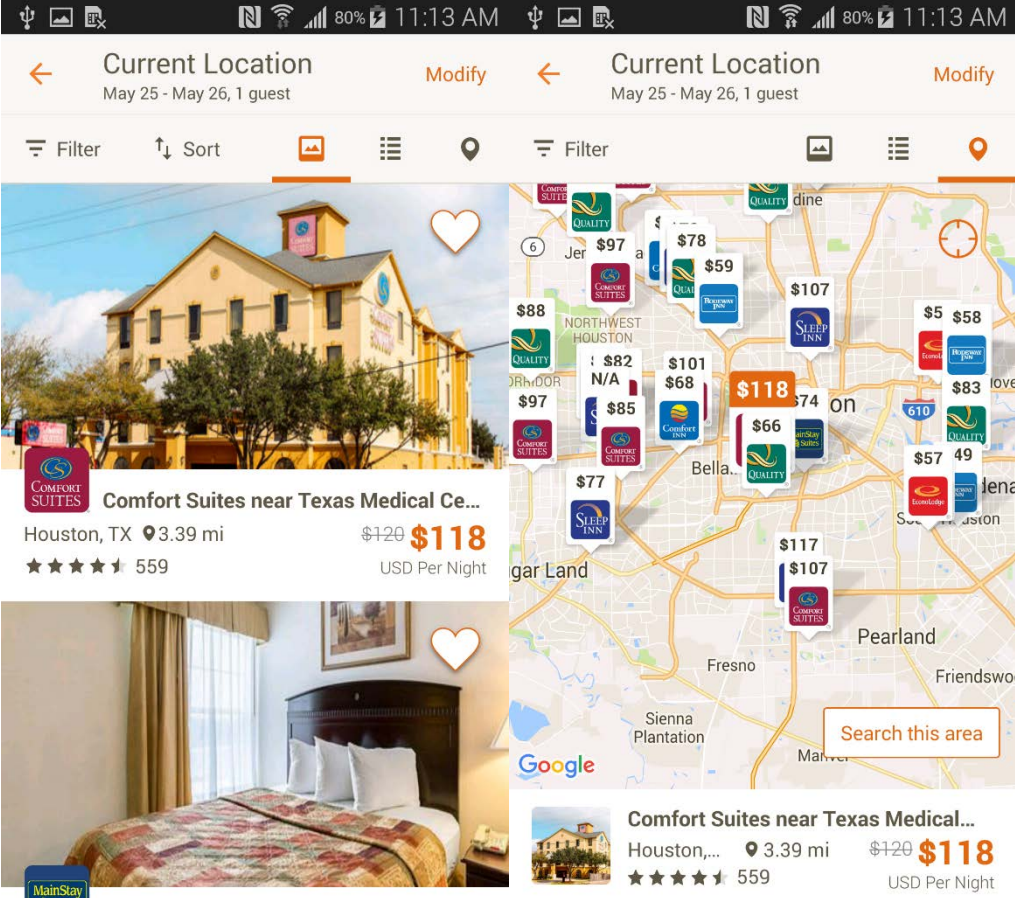
CLAIM 19	Choice Hotels Mobile Android App
	The responses collected by the Choice Hotels App include, for example, the applicable dates, number of guests, and rate type. Once those responses are provided, the Choice Hotels App, which has also determined the user's location, provides a list of nearby Choice Hotels properties that meet the selected criteria:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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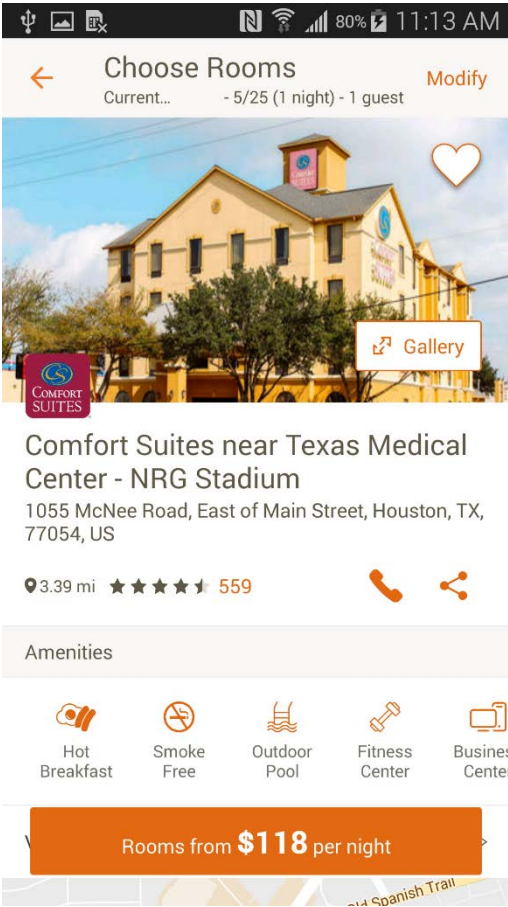
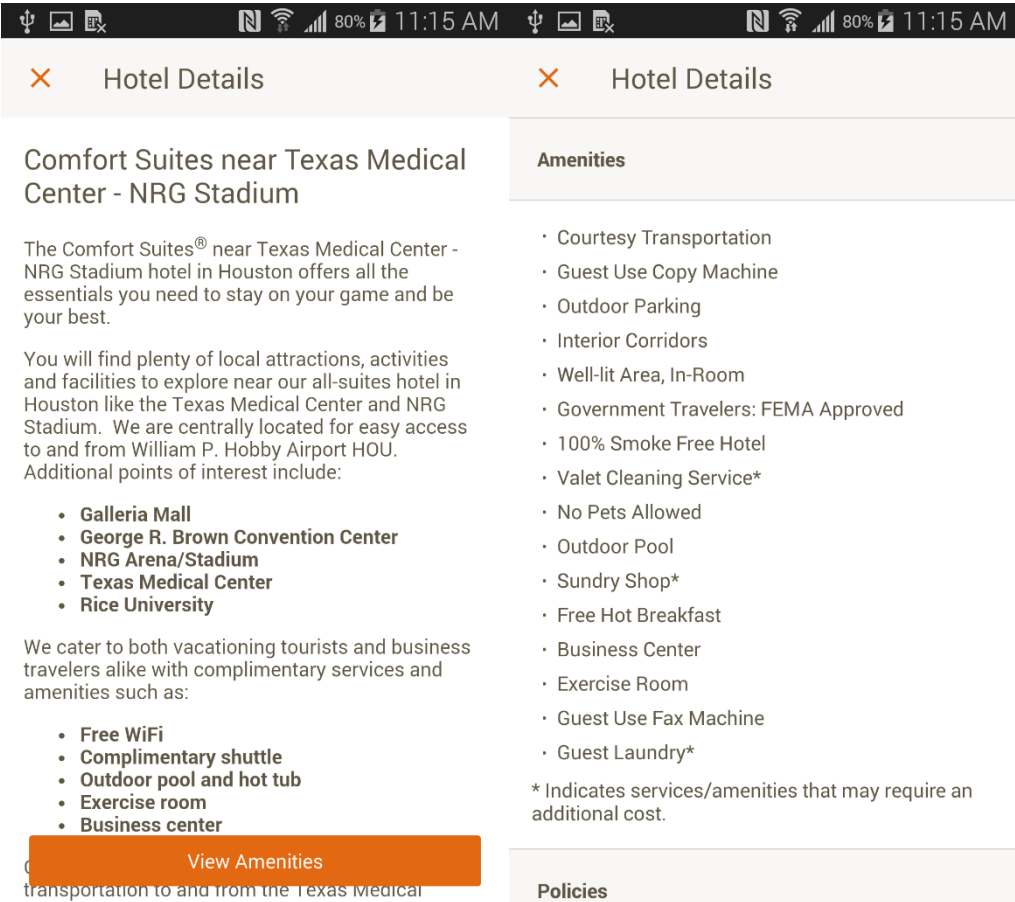
CLAIM 19	Choice Hotels Mobile Android App
	Another response that is collected is when the user next selects the desired Choice Hotel property, which provides details information about that property, as well as the ability to reserve a room, write a review, and call the property:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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CLAIM 19	Choice Hotels Mobile Android App
	 The screenshot shows the 'Hotel Details' page for 'Comfort Suites near Texas Medical Center - NRG Stadium'. The page includes a description of the hotel, a list of local attractions, and a list of amenities. A 'View Amenities' button is located at the bottom of the amenities list. Hotel Details Comfort Suites near Texas Medical Center - NRG Stadium The Comfort Suites® near Texas Medical Center - NRG Stadium hotel in Houston offers all the essentials you need to stay on your game and be your best. You will find plenty of local attractions, activities and facilities to explore near our all-suites hotel in Houston like the Texas Medical Center and NRG Stadium. We are centrally located for easy access to and from William P. Hobby Airport HOU. Additional points of interest include: • Galleria Mall • George R. Brown Convention Center • NRG Arena/Stadium • Texas Medical Center • Rice University We cater to both vacationing tourists and business travelers alike with complimentary services and amenities such as: • Free WiFi • Complimentary shuttle • Outdoor pool and hot tub • Exercise room • Business center Amenities • Courtesy Transportation • Guest Use Copy Machine • Outdoor Parking • Interior Corridors • Well-lit Area, In-Room • Government Travelers: FEMA Approved • 100% Smoke Free Hotel • Valet Cleaning Service* • No Pets Allowed • Outdoor Pool • Sundry Shop* • Free Hot Breakfast • Business Center • Exercise Room • Guest Use Fax Machine • Guest Laundry* * Indicates services/amenities that may require an additional cost. View Amenities Policies

Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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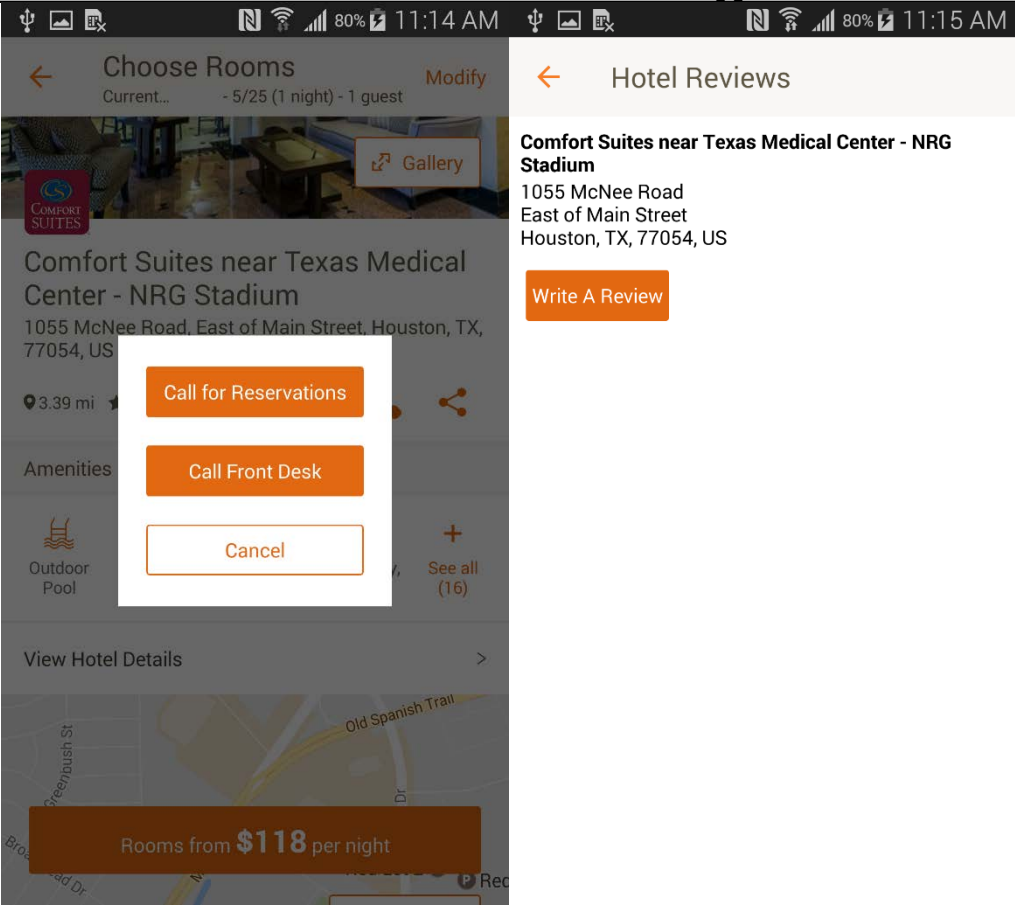
CLAIM 19	Choice Hotels Mobile Android App
	 The screenshot displays the Choice Hotels Mobile Android App interface. The top status bar shows the time as 11:14 AM and 11:15 AM, along with battery and signal indicators. The app's header includes a back arrow, the title "Choose Rooms", and a "Modify" button. Below the header, the hotel name "Comfort Suites near Texas Medical Center - NRG Stadium" is prominently displayed, followed by the address "1055 McNee Road, East of Main Street, Houston, TX, 77054, US". A modal window is overlaid on the screen, featuring three orange buttons: "Call for Reservations", "Call Front Desk", and a white "Cancel" button. The background of the app shows a gallery of hotel images, a "Write A Review" button, and a price tag indicating "Rooms from \$118 per night". The bottom of the screen shows a map snippet and a "View Hotel Details" link. Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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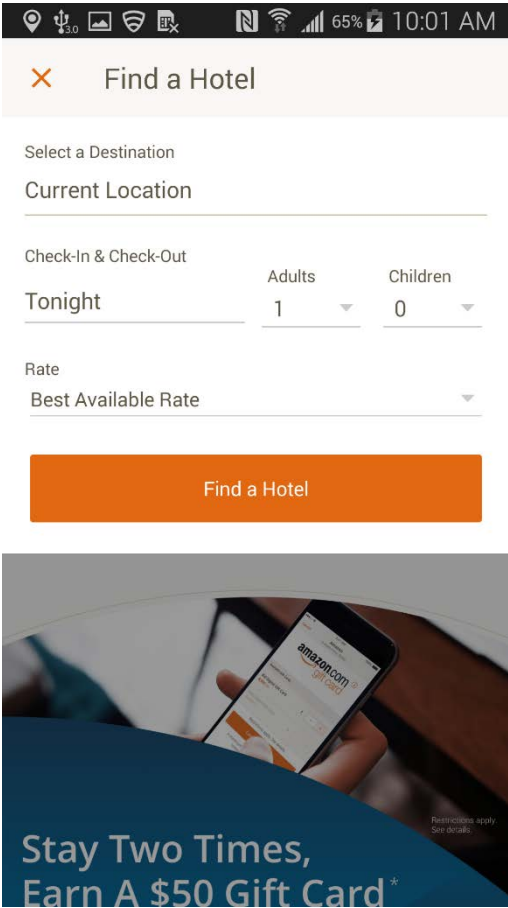
CLAIM 19	Choice Hotels Mobile Android App
(d2) storing within said computing device said at least one response from the first user;	The user responses, which include location, selected property, number of guests, and the dates, are stored on the smartphone:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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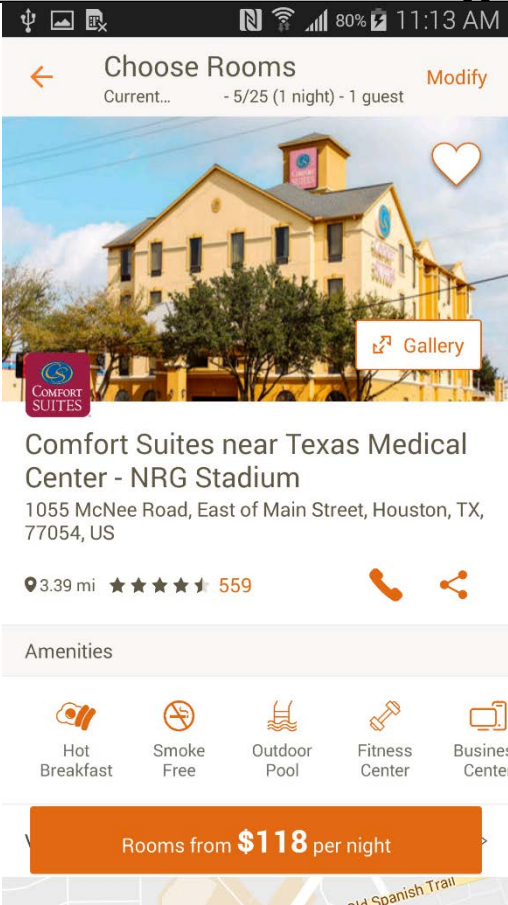
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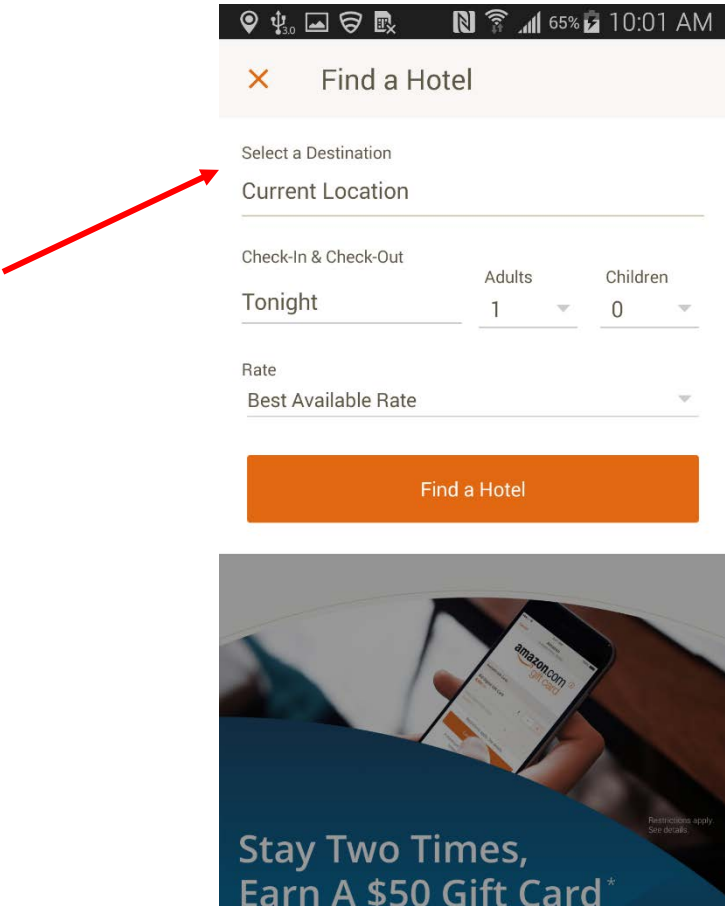
CLAIM 19	Choice Hotels Mobile Android App
(d3) using said GPS to automatically obtain said location identifying information in response to said at least one question that requests location identifying information;	When the “Find a Hotel” option is selected, the Choice Hotels App can search for Choice Hotel properties near the user’s current location, which is automatically determined from the phone’s current GPS coordinates. The user chooses “Select a Destination”  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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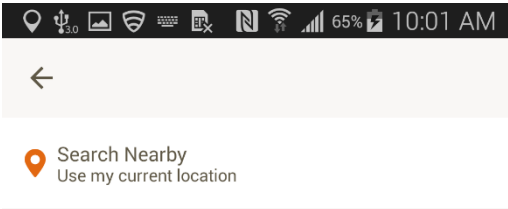
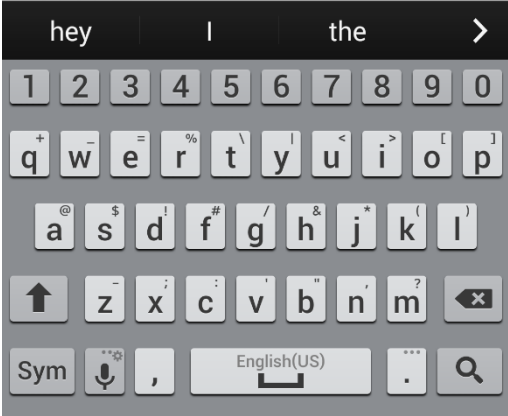
CLAIM 19	Choice Hotels Mobile Android App
	This presents the user with the option to “Search Nearby – Use my current location”   Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

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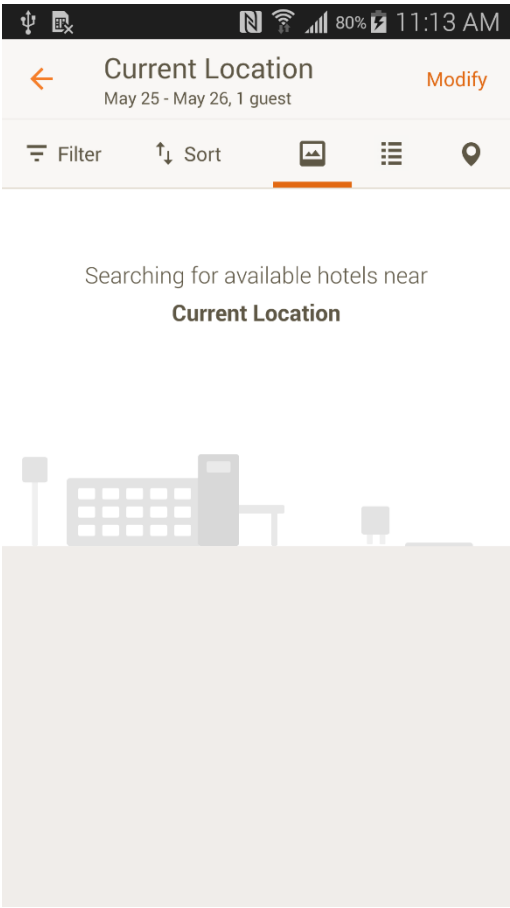
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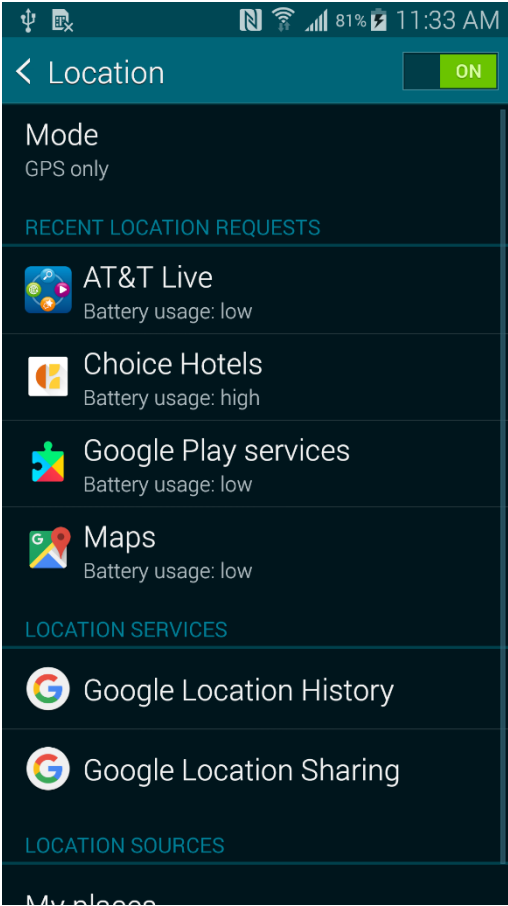
CLAIM 19	Choice Hotels Mobile Android App
	The Choice Hotels app uses the phone's internal GPS receiver:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

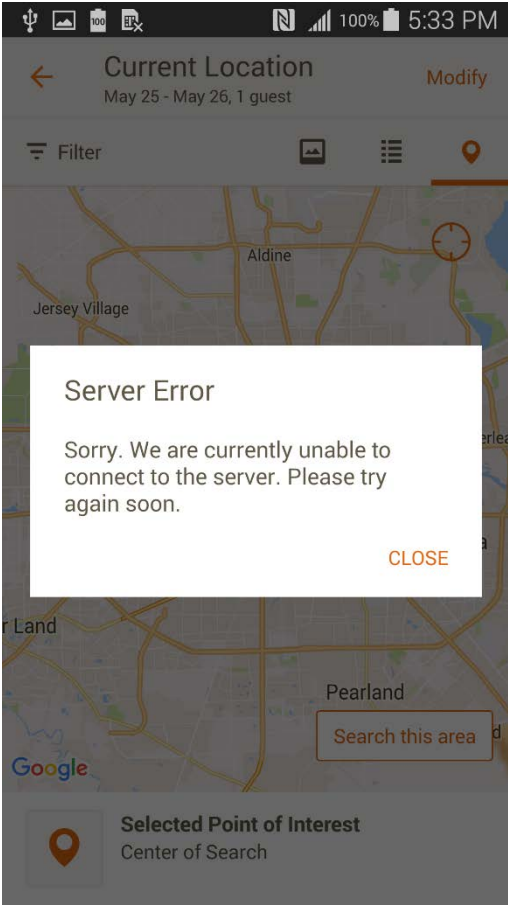
CLAIM 19	Choice Hotels Mobile Android App
(e) establishing communications between said handheld computing device and a recipient computer;	There must be communications between the user's phone (handheld computing device) and a recipient computer, the Choice Hotels servers. If the communications network, such as wifi or cellular internet access is disabled, the Choice Hotels App provides an error message:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

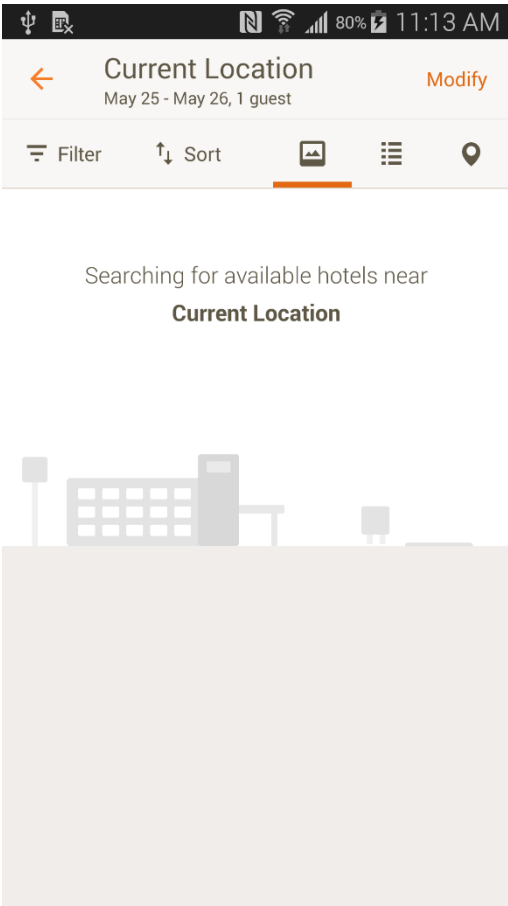
CLAIM 19	Choice Hotels Mobile Android App
(f) transmitting a value representative of each of said at least one response stored within said handheld computing device to said recipient computer; and,	At least one value representing at least one stored response, such as the user's location (used to determine the nearest Choice Hotels property) or the selected date, is transmitted to the Choice Hotel's server:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

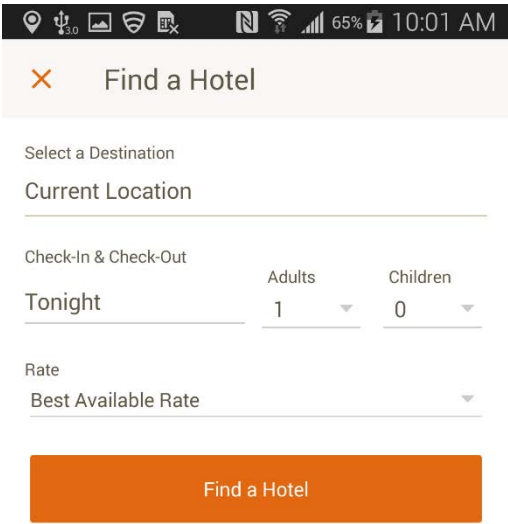
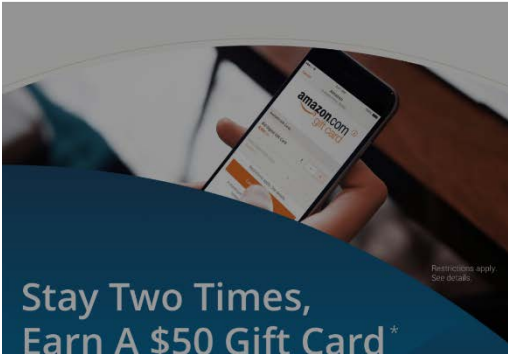
CLAIM 19	Choice Hotels Mobile Android App
	  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

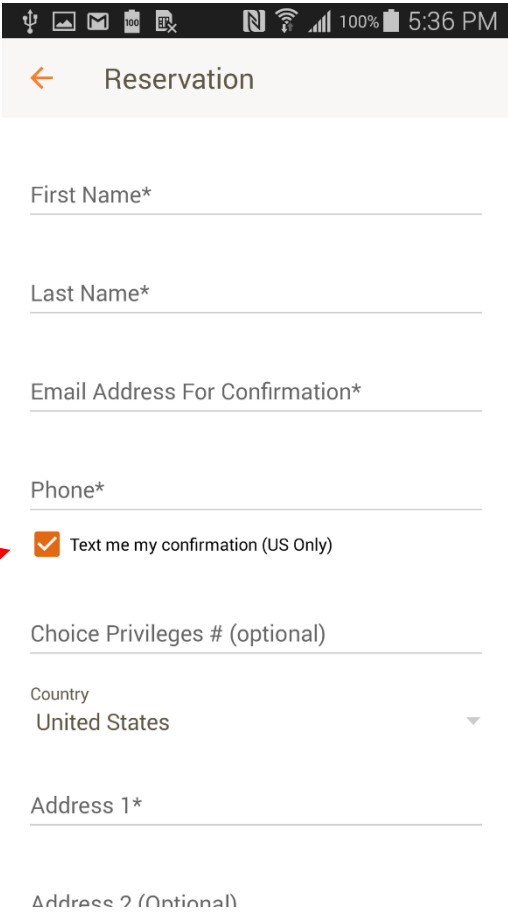
CLAIM 19	Choice Hotels Mobile Android App
(g) after receipt of said transmission of step (f), transmitting a notice of said received value representative of each of said at least one response to a second user.	Notice of the received values, such as confirmation of the room reserved at the selected Choice Hotel property, can be sent to a second user via text message:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

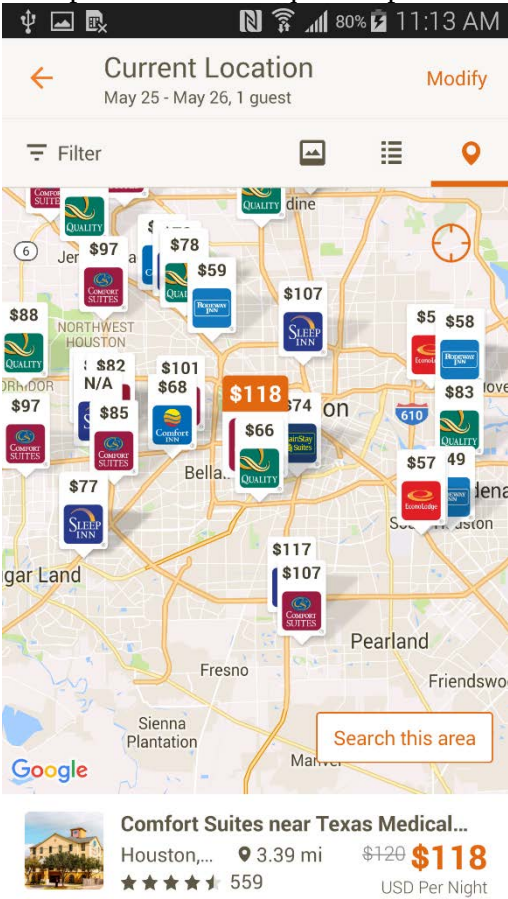
CLAIM 19	Choice Hotels Mobile Android App
	In addition, notice of the received values (current location, selected date, number & type of guests, and rate) is sent to the user when the Choice Hotels App provides the list or map of the Choice Hotels properties responsive to the requested parameters:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone In addition, the chosen Choice Hotels property receives the reservation information provided by the user to the Choice Hotels App.

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

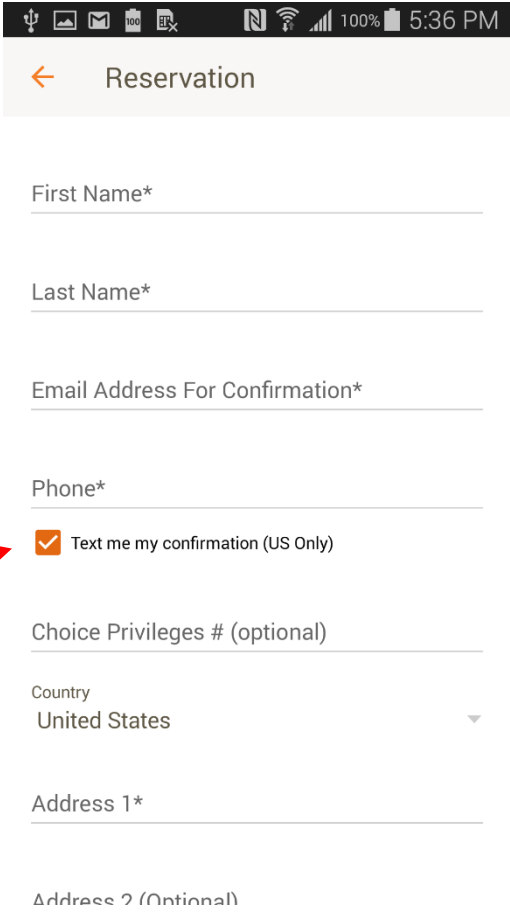
CLAIM 20	Choice Hotels Mobile Android App
The method for managing data according to claim 19, wherein the first user and the second user are a same user.	Notice of the received values, such as confirmation of the room reserved at the selected Choice Hotel property, can be sent to the first user via text message:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

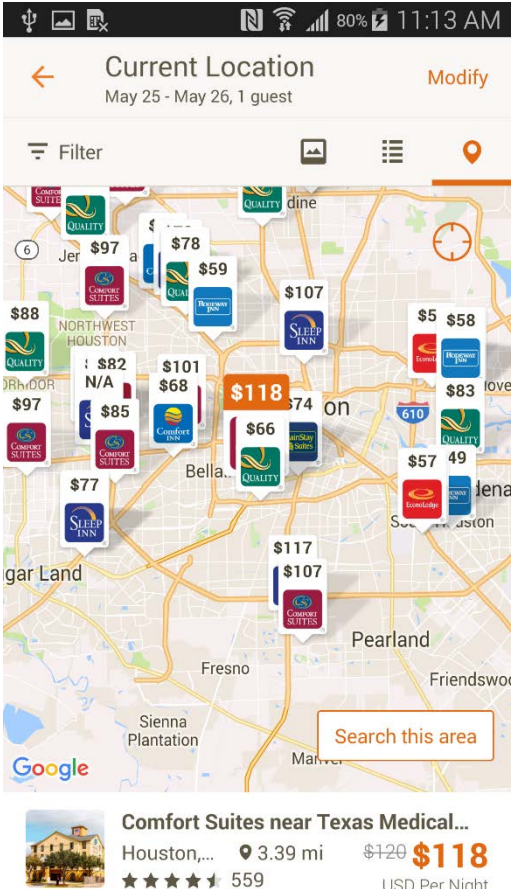
CLAIM 20	Choice Hotels Mobile Android App
	In addition, notice of the received values (current location, selected date, number & type of guests, and rate) is sent to the first user when the Choice Hotels App provides the list or map of the Choice Hotels properties responsive to the requested parameters:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

CLAIM 21	Choice Hotels Mobile Android App
A method for managing data comprising the steps of:	To the extent the preamble is limiting, the Choice App implements a method for managing data. For example, the Choice App manages data, including the user's location:  BOOK ANYWHERE Find the right hotel and book your room at the lowest rate. > Search for hotels near you > View photos, see virtual tours and read real reviews > Make your reservation with a few taps https://www.choicehotels.com/about/mobile DO YOU USE MY DEVICE'S GEO-LOCATION DATA? Our mobile apps may use your device's Global Positioning System (GPS) technology to locate a hotel near you and/or to provide you with other relevant location-based information and/or services. We will abide by your device's settings when accessing geo-location data. To the extent any geo-location data is combined with personal information, that information will be treated as personal information in accordance with this policy. https://www.choicehotels.com/legal/privacy-policy

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

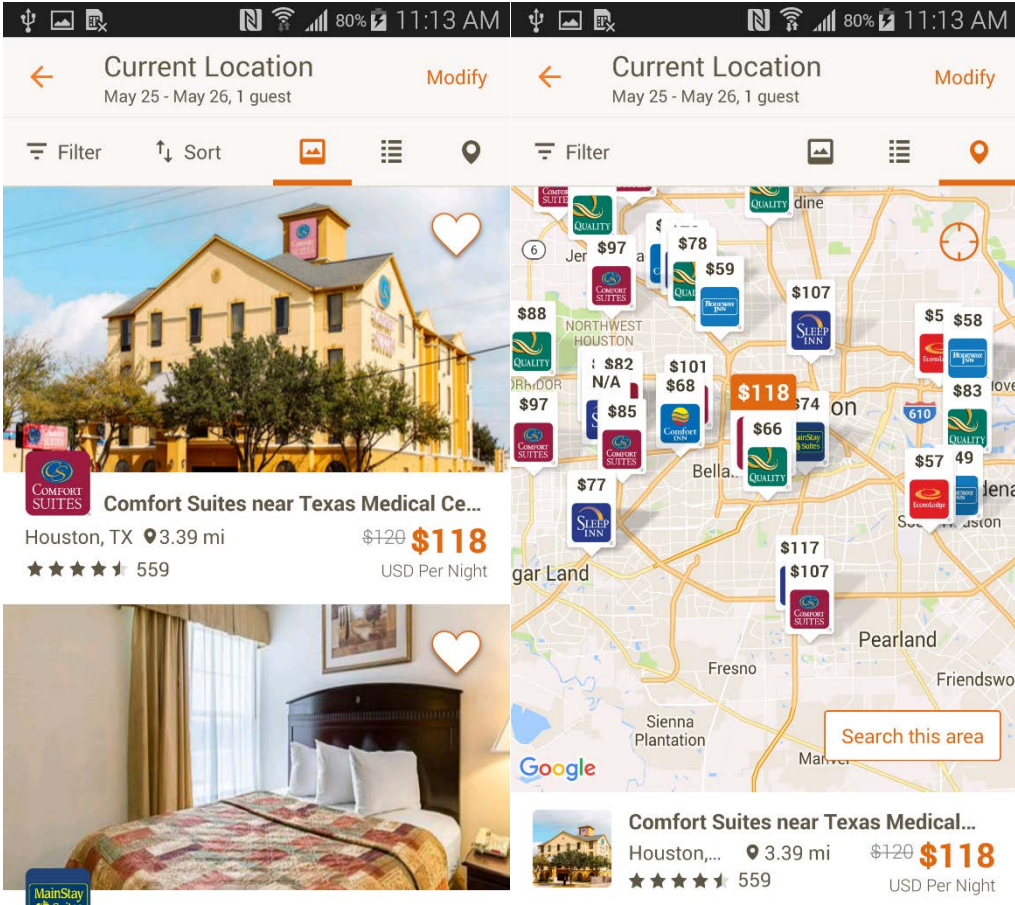
CLAIM 21	Choice Hotels Mobile Android App
	The Choice App manages data, including the user selecting the type of hotel, type of room, and duration of stay, from a list of properties near the user's location:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

CLAIM 21	Choice Hotels Mobile Android App
(a) within a central computer, accessing at least one user data item stored in a recipient computer, wherein said at least one data item is obtained via the steps of:	The Choice Hotels App allows the user to view hotel availability and rate information for Choice Hotels properties near the user's current location. The information is provided to the Choice Hotels App via a central computer (the Choice Hotels server) only after the user has provided the desired destination, which is done using the user's current location (at least one data item), to the recipient computer (another Choice Hotels server)

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

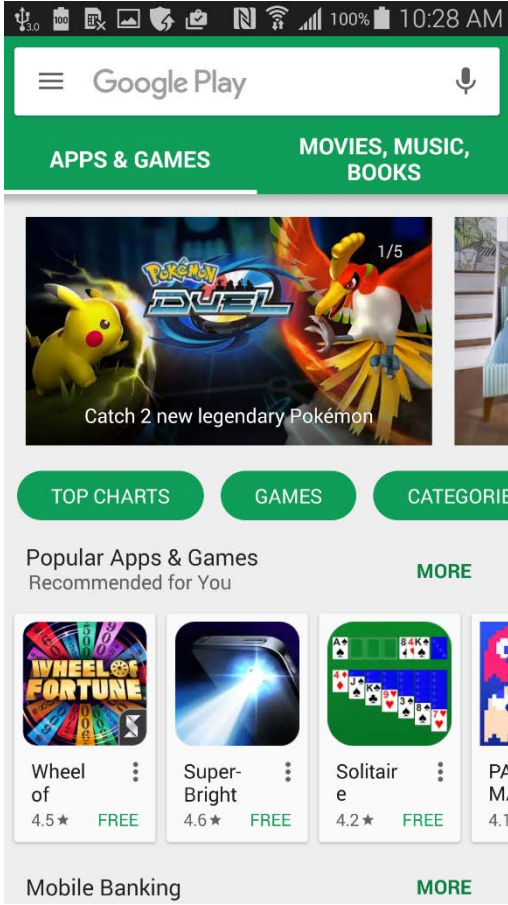
CLAIM 21	Choice Hotels Mobile Android App
(1) establishing communications between a handheld computing device and an originating computer wherein said handheld computing device has a GPS integral thereto;	In order to obtain the benefits received from using the Choice Hotels App, the user must establish communications between the handheld computing device, such as the user's smartphone, and an originating computer, such as the server(s) hosting the Google Play Store:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

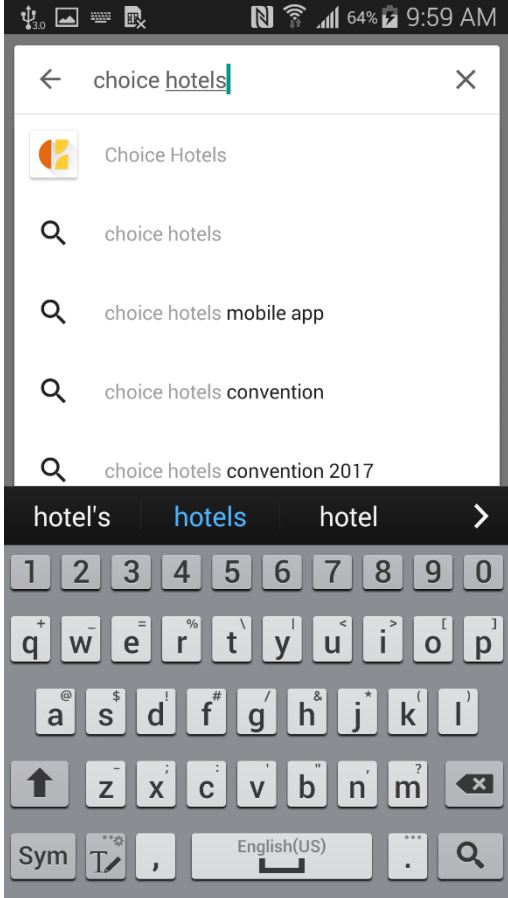
CLAIM 21	Choice Hotels Mobile Android App
	The user is able to search for the Choice Hotels App:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

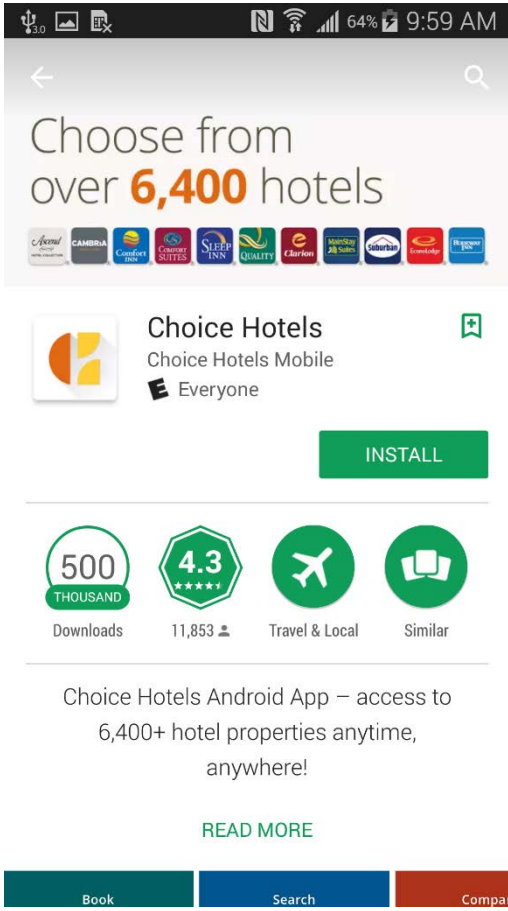
CLAIM 21	Choice Hotels Mobile Android App
	The user installs the Choice Hotels App onto the smartphone:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

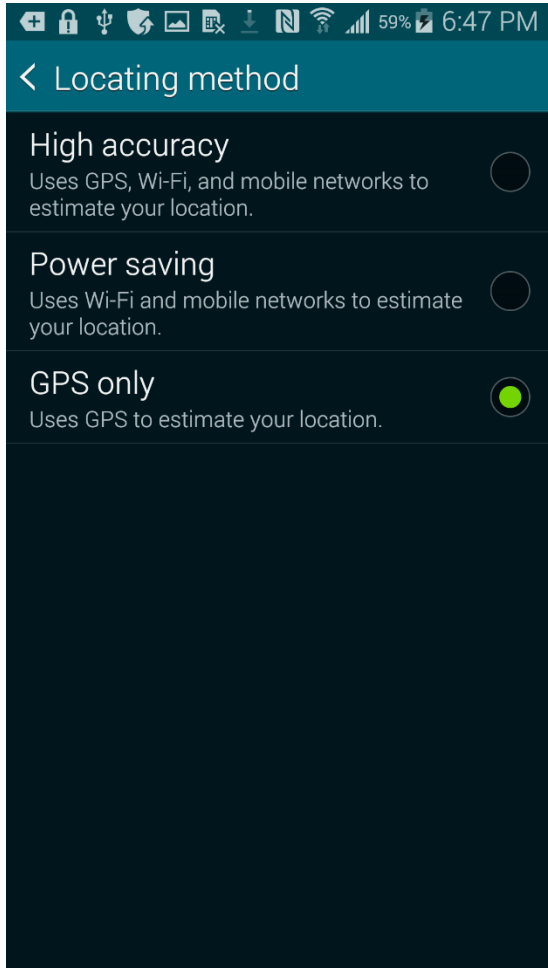
CLAIM 21	Choice Hotels Mobile Android App
	The smartphone contains an internal, integral GPS antenna: A screenshot of an Android smartphone screen showing the 'Locating method' settings within the Choice Hotels app. The screen has a dark theme. At the top, there's a status bar with various icons and a battery level of 59% at 6:47 PM. Below the status bar is a teal header with a back arrow and the text 'Locating method'. There are three options listed: 'High accuracy' (described as using GPS, Wi-Fi, and mobile networks), 'Power saving' (described as using Wi-Fi and mobile networks), and 'GPS only' (described as using only GPS). The 'GPS only' option is selected, indicated by a green circle with a white dot. A red arrow points to the 'GPS only' option from the left. Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

CLAIM 21	Choice Hotels Mobile Android App
	Smartphones operating Android are able to receive GPS signals: Everyone knows satellite navigation is great for drivers, but the global positioning system (GPS) is even better for the latest generation of smart phone users. With GPS, an Android phone knows where it is, but that's just the beginning. Add a few apps and it'll tell you where to go, how to get there and what to expect when you arrive. Source: https://www.cnet.com/how-to/android-phone-gps-tips/

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

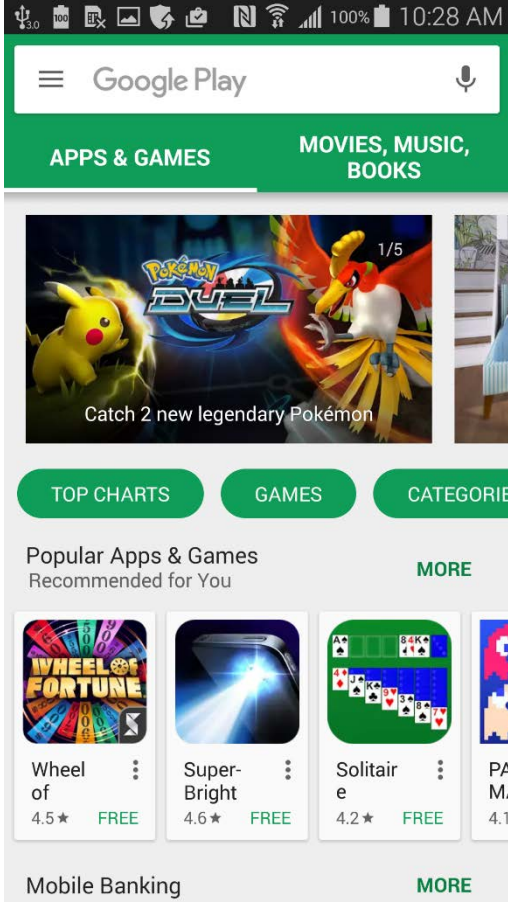
CLAIM 21	Choice Hotels Mobile Android App
(2) receiving within said handheld computing device a transmission of a tokenized questionnaire, including at least one question requesting GPS coordinates and at least one additional question, said tokenized questionnaire comprising a plurality of device independent tokens;	In order to obtain the benefits received from using the Choice Hotels App, the handheld computing device (smartphone) must receive the transmission (download) of a tokenized questionnaire onto the smartphone, which is the Choice Hotels App. A search is performed for the Choice Hotels App:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

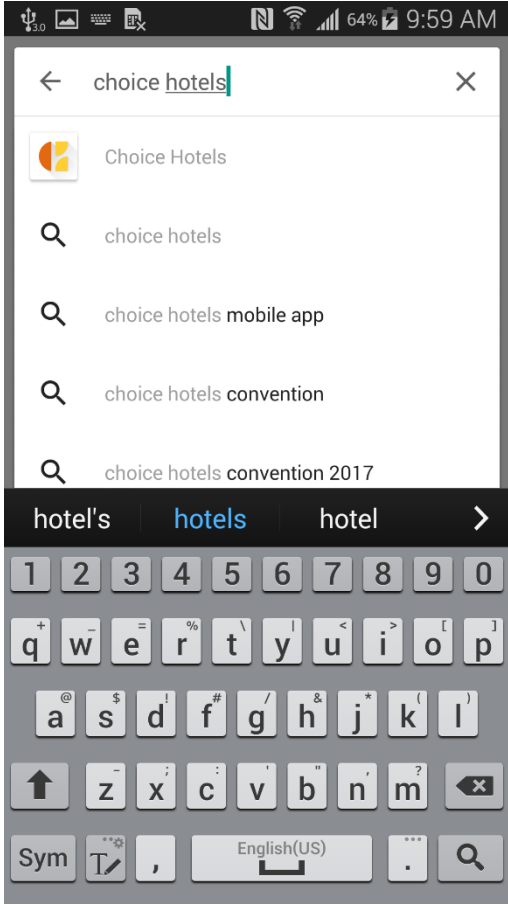
CLAIM 21	Choice Hotels Mobile Android App
	 The screenshot displays the Choice Hotels mobile application interface on an Android device. At the top, the status bar shows various icons including USB, Wi-Fi, and battery level at 64%, with the time 9:59 AM. Below the status bar is a search bar containing the text 'choice hotels'. A dropdown menu lists several search suggestions: 'Choice Hotels' (with a logo), 'choice hotels', 'choice hotels mobile app', 'choice hotels convention', and 'choice hotels convention 2017'. Below the suggestions is a keyboard with a search bar containing 'hotel's', 'hotels', and 'hotel'. The keyboard is a standard QWERTY layout with a search icon on the right. Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

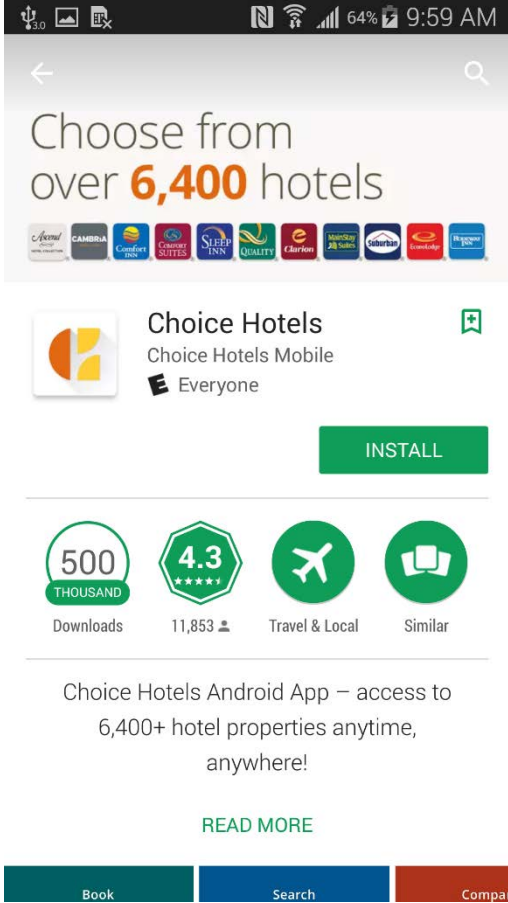
CLAIM 21	Choice Hotels Mobile Android App
	The Choice Hotels App is selected, which gives the user the option to install:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE’S PRELIMINARY INFRINGEMENT CONTENTIONS

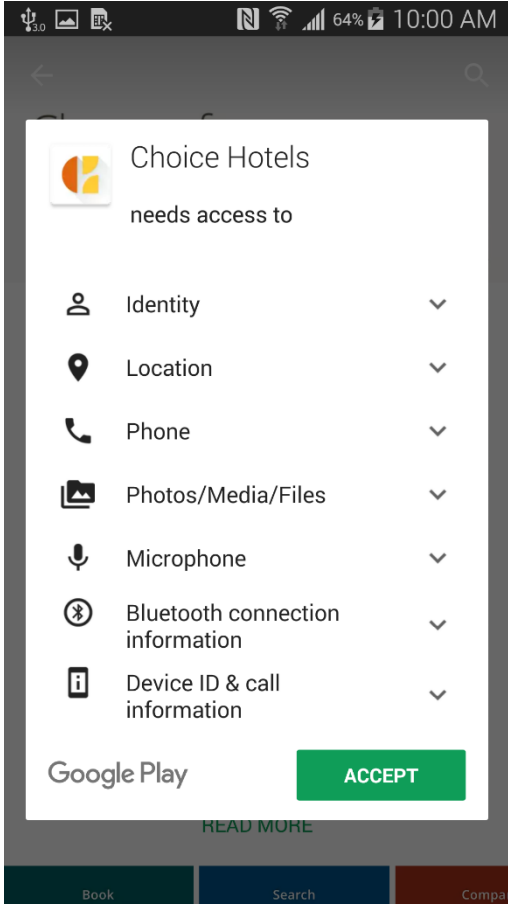
CLAIM 21	Choice Hotels Mobile Android App
	When “Install” is selected, the user is informed that the Choice Hotels App requires access to the user’s location. In order to obtain the benefits received from using the Choice Hotels App, and begin downloading the app, the user must select “Accept”:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

CLAIM 21	Choice Hotels Mobile Android App
	The Choice Hotels App is a tokenized questionnaire comprising a plurality of device independent tokens, and is downloaded as bytecode, typically a type of Java, such as “.dex.” With the latest I/O conference, Google has finally publicly announced its plans for its new runtime on Android. The Android RunTime, ART, is the successor and replacement for Dalvik, the virtual machine on which Android Java code is executed on. We've had traces and previews of it available with KitKat devices since last fall, but there wasn't much information in terms of technical details and the direction Google was heading with it. Contrary to other mobile platforms such as iOS, Windows or Tizen, which run software compiled natively to their specific hardware architecture, the majority of Android software is based around a generic code language which is transformed from “byte-code” into native instructions for the hardware on the device itself. First, ART is designed to be fully compatible with Dalvik's existing byte-code format, “dex” (Dalvik executable). As such, from a developer's perspective, there are no changes at all in terms of having to write applications for one or the other runtime and no need to worry about compatibilities. Source: http://www.anandtech.com/show/8231/a-closer-look-at-android-runtime-art-in-android-l/

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

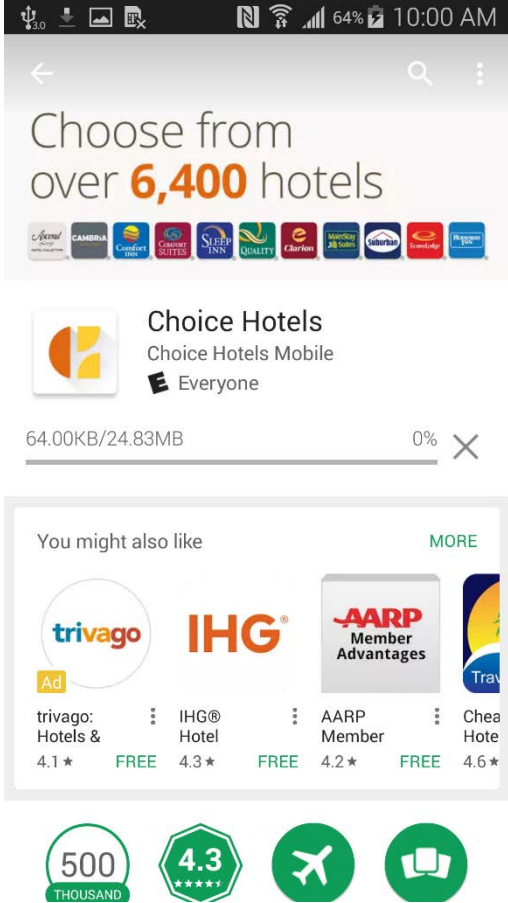
CLAIM 21	Choice Hotels Mobile Android App
	The tokenized questionnaire (Choice Hotels App) is downloaded:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

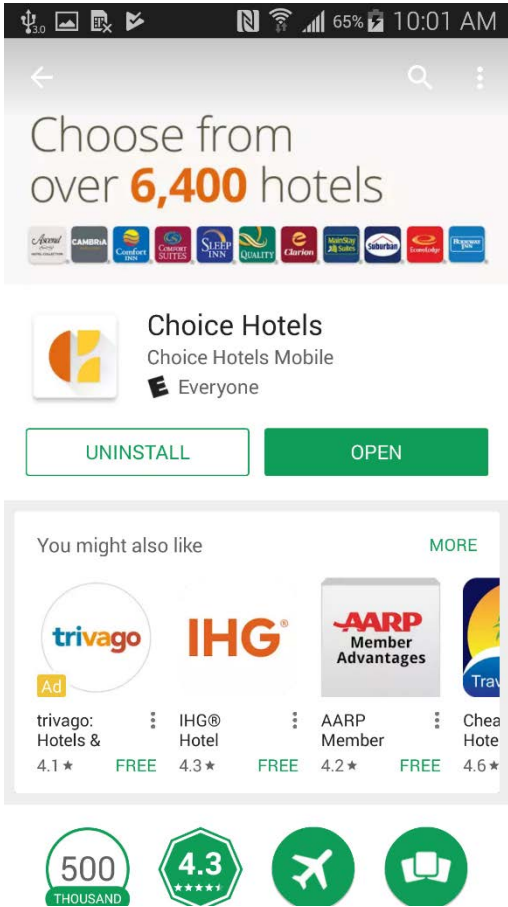
CLAIM 21	Choice Hotels Mobile Android App
	 Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

CLAIM 21	Choice Hotels Mobile Android App
	The questionnaire includes features that utilize the user's location, including the ability to search for nearby hotels:  BOOK ANYWHERE Find the right hotel and book your room at the lowest rate. > Search for hotels near you > View photos, see virtual tours and read real reviews > Make your reservation with a few taps Source: https://www.choicehotels.com/about/mobile DO YOU USE MY DEVICE'S GEO-LOCATION DATA? Our mobile apps may use your device's Global Positioning System (GPS) technology to locate a hotel near you and/or to provide you with other relevant location-based information and/or services. We will abide by your device's settings when accessing geo-location data. To the extent any geo-location data is combined with personal information, that information will be treated as personal information in accordance with this policy. Source: https://www.choicehotels.com/legal/privacy-policy

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

CLAIM 21	Choice Hotels Mobile Android App
	When the user first opens the Choice Hotels App (the tokenized questionnaire), the internal Android Runtime (previously Dalvik) application compiles and executes the bytecode (tokens) into the native operating system code for operation by the user's smartphone (handheld computing device). Thus, the app is device independent. Contrary to other mobile platforms such as iOS, Windows or Tizen, which run software compiled natively to their specific hardware architecture, <u>the majority of Android software is based around a generic code language which is transformed from "byte-code" into native instructions for the hardware on the device itself.</u> Source: http://www.anandtech.com/show/8231/a-closer-look-at-android-runtime-art-in-android-l/ ART and Dalvik Android runtime (ART) is the managed runtime used by applications and some system services on Android. ART and its predecessor Dalvik were originally created specifically for the Android project. ART as the runtime executes the Dalvik Executable format and Dex bytecode specification. <u>ART and Dalvik are compatible runtimes running Dex bytecode,</u> so apps developed for Dalvik should work when running with ART. However, some techniques that work on Dalvik do not work on ART. For information about the most important issues, see Verifying App Behavior on the Android Runtime (ART). Source: https://source.android.com/devices/tech/dalvik/

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

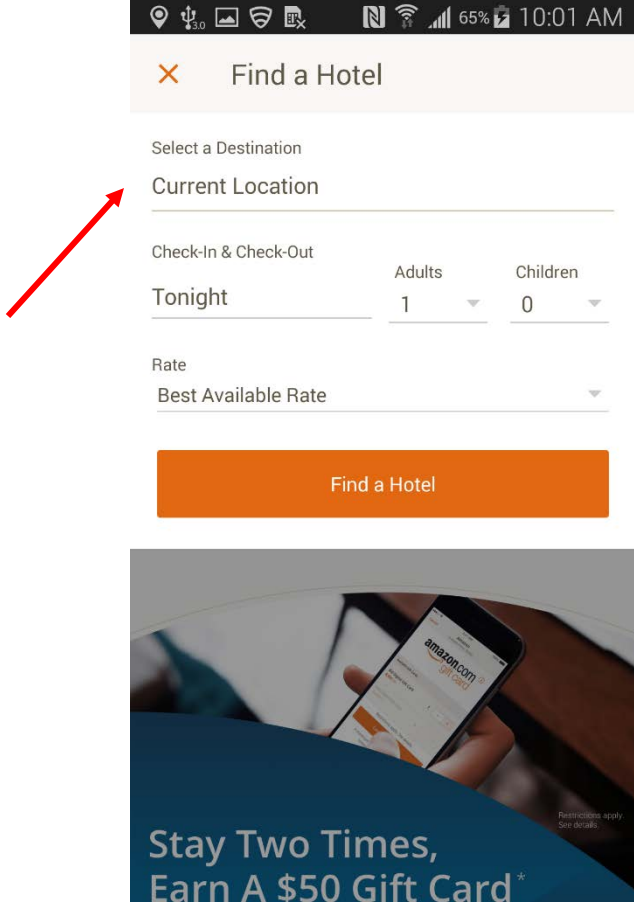
CLAIM 21	Choice Hotels Mobile Android App
	For example, when the “Find a Hotel” option is selected in the Choice Hotels App, the user’s smartphone determines its current GPS coordinates (request location identifying information). The user is then able to search for hotels near the user’s current location, which is determined from the phone’s current GPS coordinates: The user chooses “Select a Destination”  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

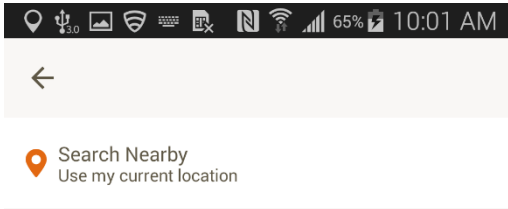
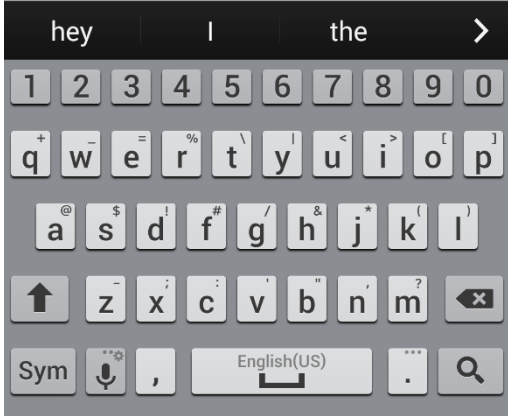
CLAIM 21	Choice Hotels Mobile Android App
	The user is presented with the option to “Search Nearby – Use my current location”   Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

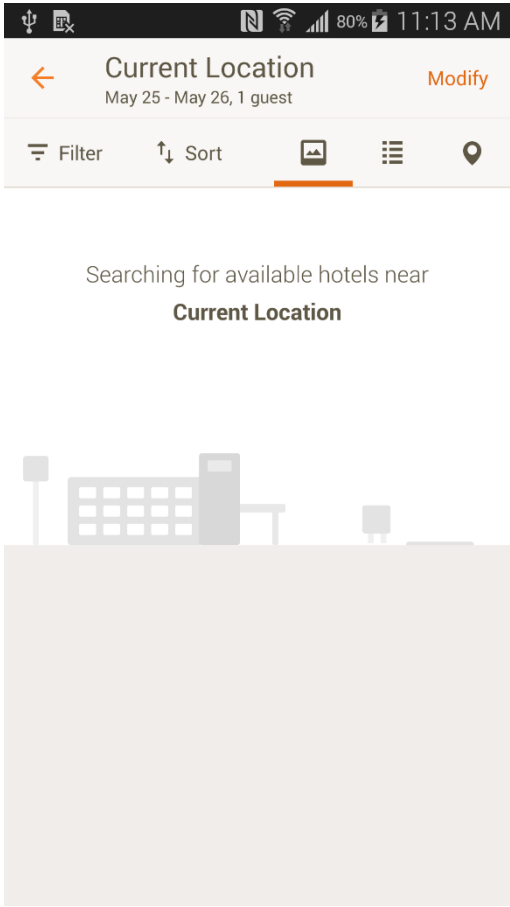
CLAIM 21	Choice Hotels Mobile Android App
	 Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

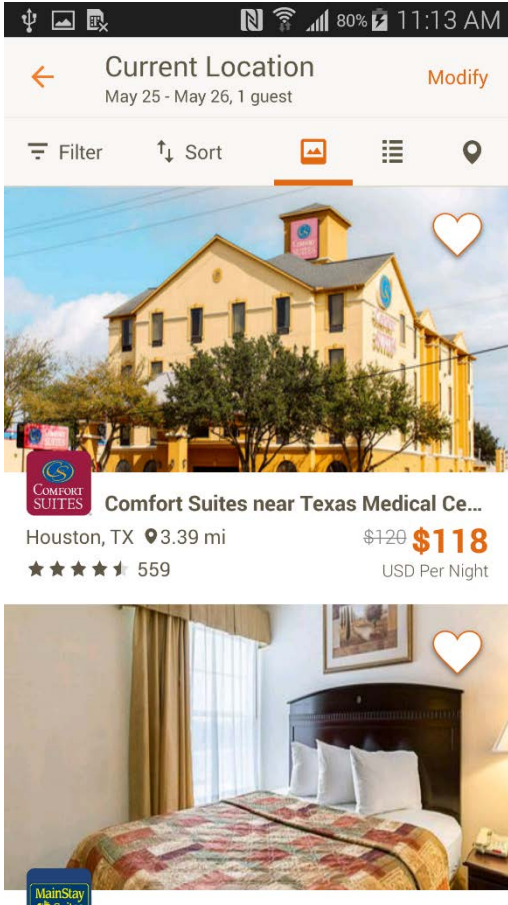
CLAIM 21	Choice Hotels Mobile Android App
	Once the search is completed, the available Choice Hotels are presented to the user in either list or map format:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

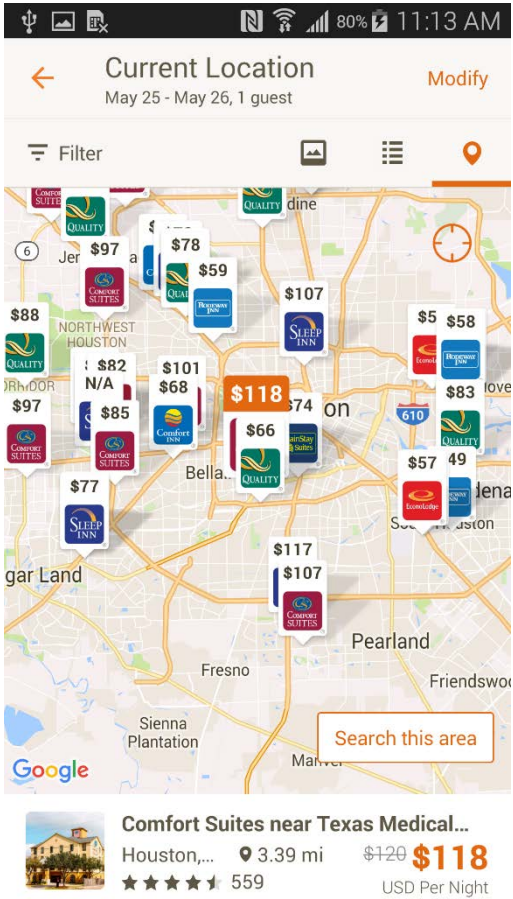
CLAIM 21	Choice Hotels Mobile Android App
	A screenshot of the Choice Hotels Mobile Android App. The top status bar shows a USB icon, signal strength, 80% battery, and the time 11:13 AM. The app interface has a header with a back arrow, 'Current Location', and a 'Modify' button. Below the header is a 'Filter' button and a map of Houston. The map is populated with hotel icons and price tags. A 'Search this area' button is at the bottom right of the map. Below the map, a detailed listing for 'Comfort Suites near Texas Medical...' is shown, including a photo of the hotel, the name, location (Houston, TX), distance (3.39 mi), a rating of 5 stars, and a price of \$118 USD Per Night. Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

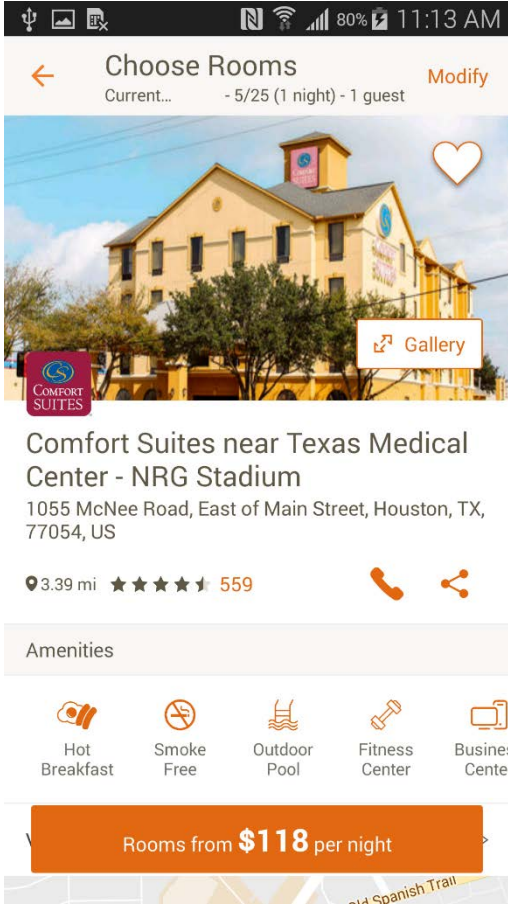
CLAIM 21	Choice Hotels Mobile Android App
	The user next selects the desired Choice Hotel property, which provides detailed information about that property, as well as the ability to reserve a room, write a review, and call the property:  The screenshot shows the 'Choose Rooms' screen in the Choice Hotels Mobile Android App. At the top, the status bar displays icons for USB, location, and battery, along with the time 11:13 AM and 80% battery. The app header shows a back arrow, the title 'Choose Rooms', and a 'Modify' button. Below the header, the current selection is 'Current... - 5/25 (1 night) - 1 guest'. The main image is a photograph of the 'Comfort Suites near Texas Medical Center - NRG Stadium' hotel, a multi-story yellow building with a red roof. A heart icon is in the top right corner of the image, and a 'Gallery' button is in the bottom right. Below the image, the hotel name 'Comfort Suites near Texas Medical Center - NRG Stadium' is displayed, followed by the address '1055 McNee Road, East of Main Street, Houston, TX, 77054, US'. Below the address, the distance '3.39 mi' is shown, along with a star rating of 4.5 stars and the number '559'. To the right of the rating are icons for a phone call and a share button. Below this is a section titled 'Amenities' with five icons: 'Hot Breakfast', 'Smoke Free', 'Outdoor Pool', 'Fitness Center', and 'Business Center'. At the bottom, a large orange button displays 'Rooms from \$118 per night'. Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

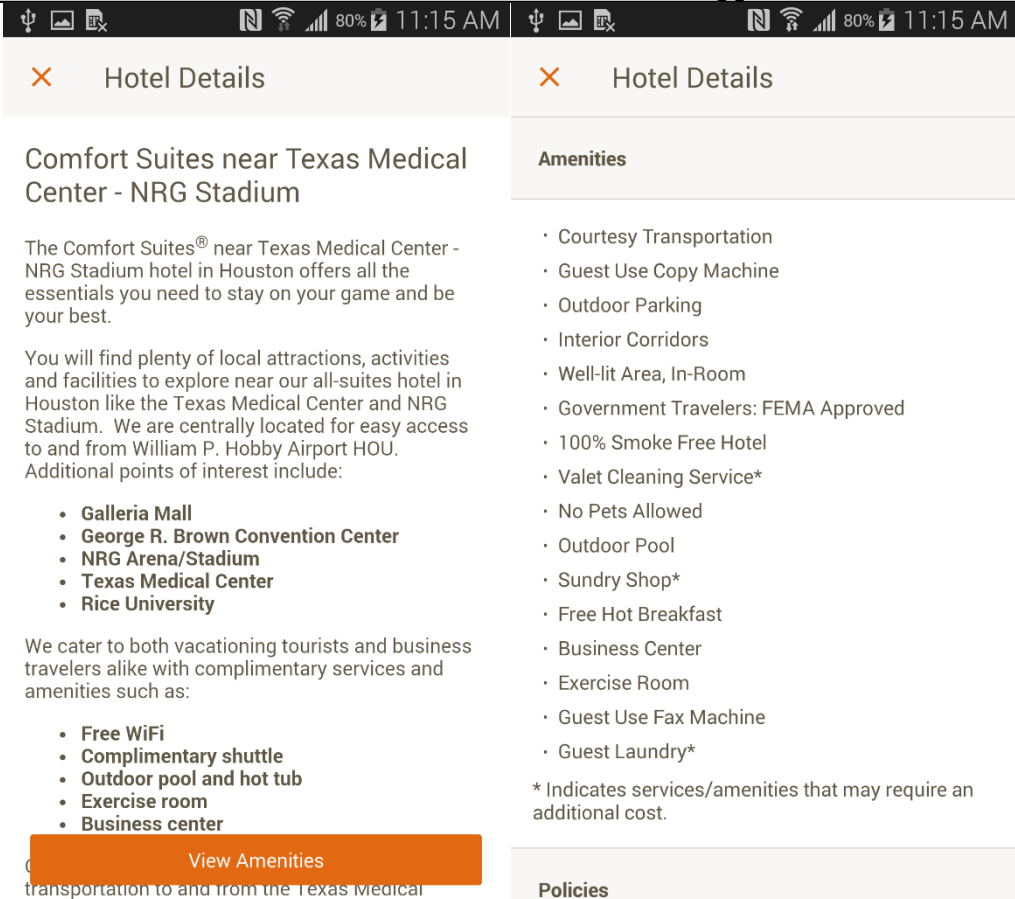
CLAIM 21	Choice Hotels Mobile Android App
	 Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

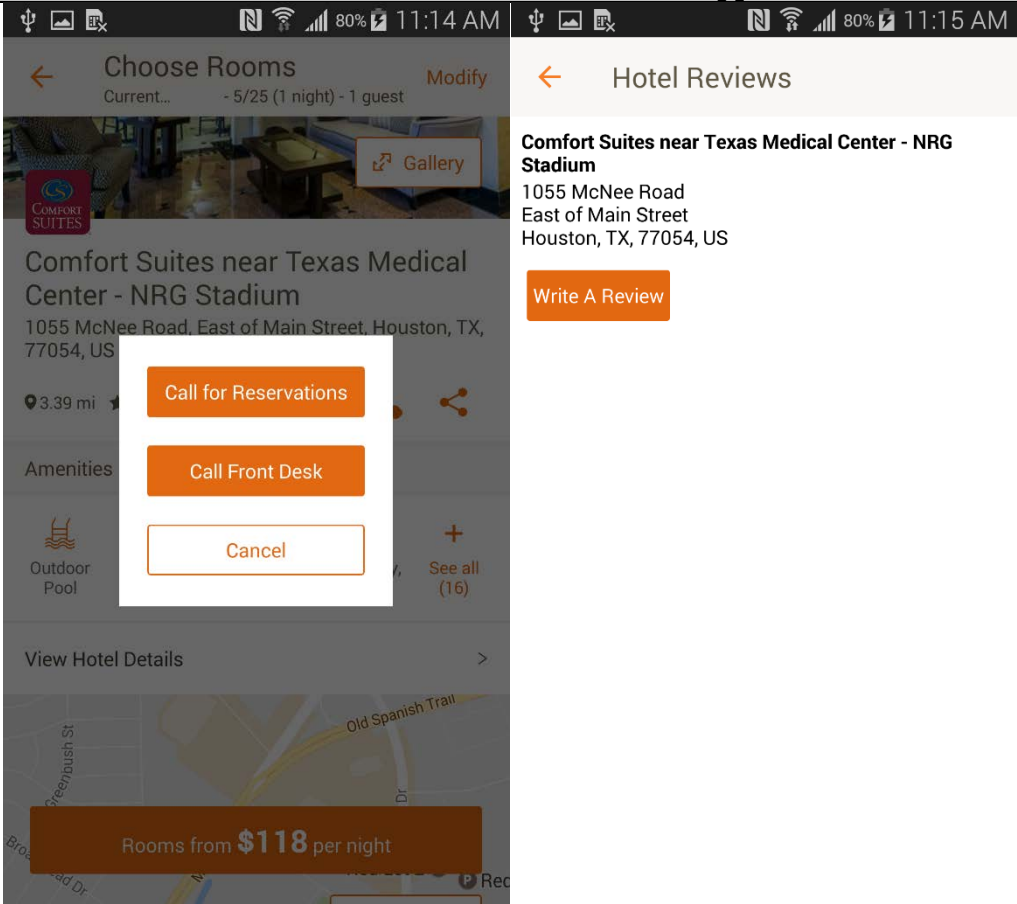
CLAIM 21	Choice Hotels Mobile Android App
	 The image displays two side-by-side screenshots of the Choice Hotels Mobile Android App. The left screenshot shows the 'Choose Rooms' screen for 'Comfort Suites near Texas Medical Center - NRG Stadium'. It includes a modal dialog with three orange buttons: 'Call for Reservations', 'Call Front Desk', and 'Cancel'. The right screenshot shows the 'Hotel Reviews' screen for the same hotel, displaying the address '1055 McNee Road, East of Main Street, Houston, TX, 77054, US' and a 'Write A Review' button. Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

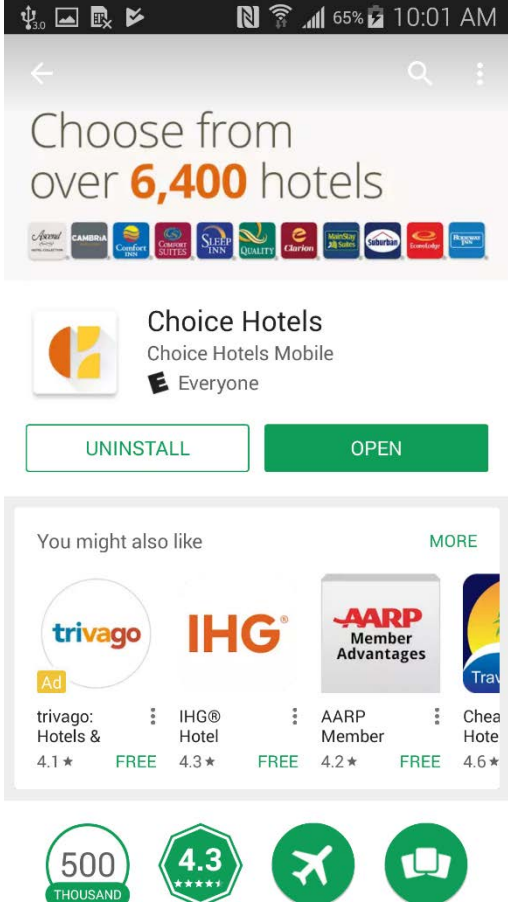
CLAIM 21	Choice Hotels Mobile Android App
(3) ending said communications between said handheld computing device and said originating computer;	After the Choice Hotels App is downloaded, communication between the user's phone and the originating computer, such as the Google Play Store, ends:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone
(4) after said communications has been ended,	Communications between the smartphone and the Google Play Store server are ended.

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

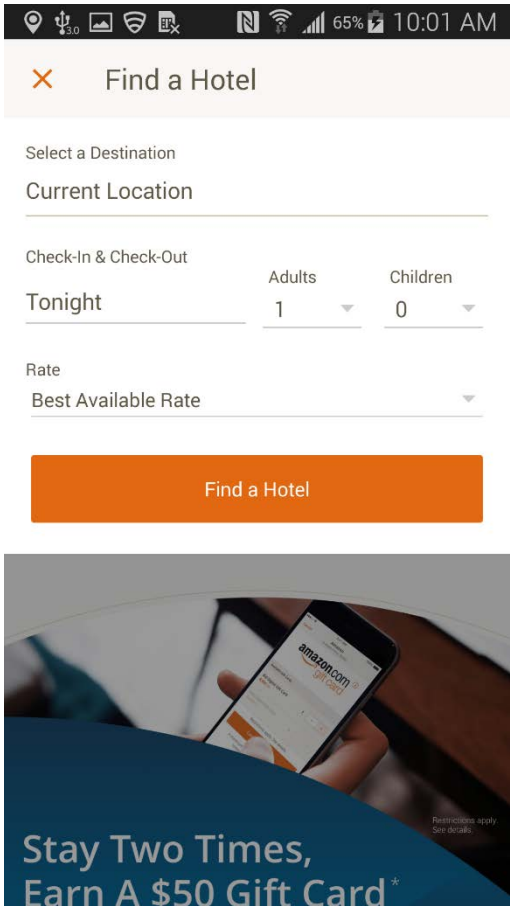
CLAIM 21	Choice Hotels Mobile Android App
(i) executing at least a portion of said plurality of tokens comprising said questionnaire on said handheld computing device,	The user executes at least a portion of the plurality of tokens comprising the questionnaire when, for example, the “Find a Hotel” option is selected. The user’s smartphone determines its current GPS coordinates to determine Choice Hotel properties near the user’s current location. The questionnaire also requires the user to select the “Check-In & Check-Out” dates, the number of adults, and children, and the applicable rate:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

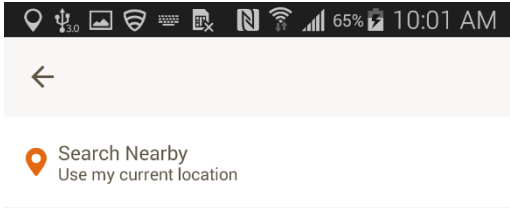
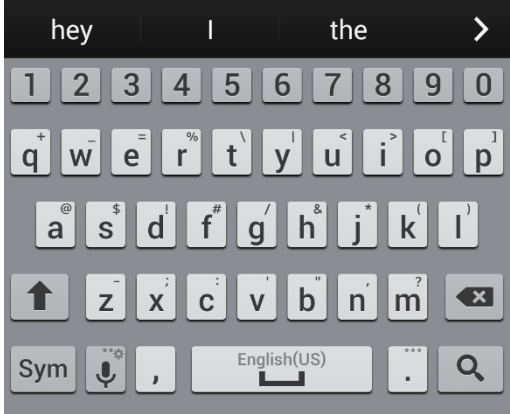
CLAIM 21	Choice Hotels Mobile Android App
	When the user selects “Search Nearby,” the Choice Hotels App automatically determines the user’s current location (determined using the smartphone’s internal GPS)   Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

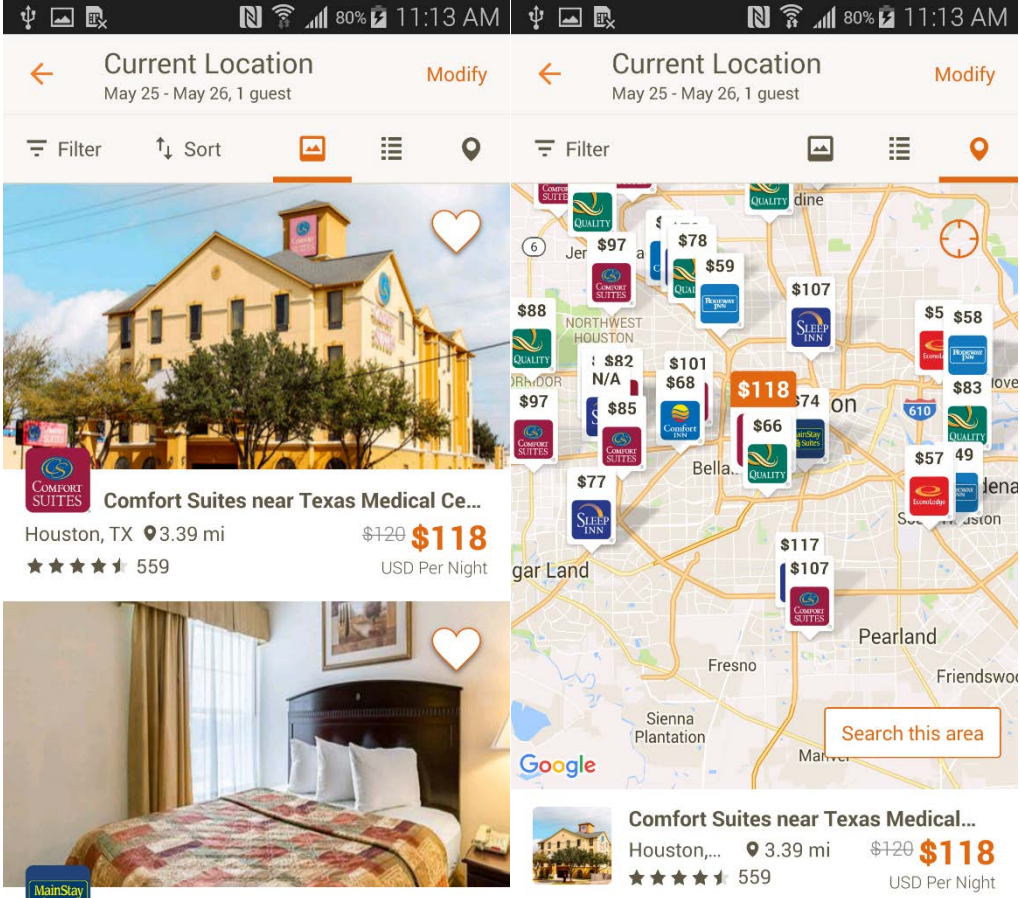
CLAIM 21	Choice Hotels Mobile Android App
	The responses collected by the Choice Hotels App include, for example, the applicable dates, number of guests, and rate type. Once those responses are provided, the Choice Hotels App, which has also determined the user's location, provides a list of nearby Choice Hotels properties that meet the selected criteria:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

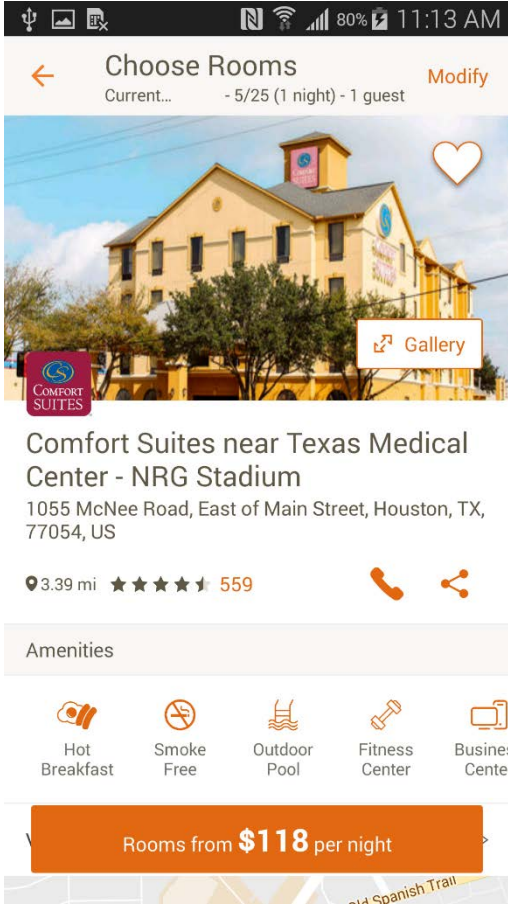
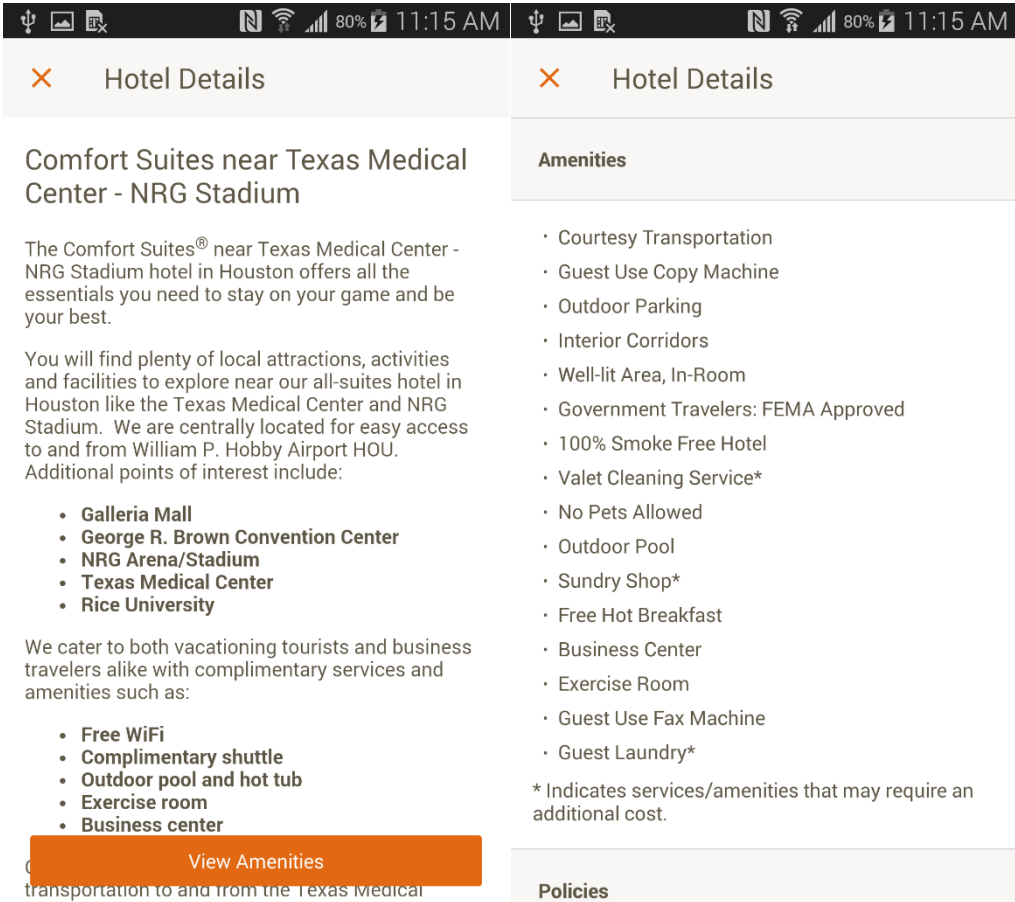
CLAIM 21	Choice Hotels Mobile Android App
	Another response that is collected is when the user next selects the desired Choice Hotel property, which provides details information about that property, as well as the ability to reserve a room, write a review, and call the property:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

CLAIM 21	Choice Hotels Mobile Android App
	 The screenshot shows the 'Hotel Details' page for 'Comfort Suites near Texas Medical Center - NRG Stadium'. The page includes a description of the hotel, a list of local attractions, and a list of amenities. A 'View Amenities' button is located at the bottom of the amenities list. Hotel Details Comfort Suites near Texas Medical Center - NRG Stadium The Comfort Suites® near Texas Medical Center - NRG Stadium hotel in Houston offers all the essentials you need to stay on your game and be your best. You will find plenty of local attractions, activities and facilities to explore near our all-suites hotel in Houston like the Texas Medical Center and NRG Stadium. We are centrally located for easy access to and from William P. Hobby Airport HOU. Additional points of interest include: • Galleria Mall • George R. Brown Convention Center • NRG Arena/Stadium • Texas Medical Center • Rice University We cater to both vacationing tourists and business travelers alike with complimentary services and amenities such as: • Free WiFi • Complimentary shuttle • Outdoor pool and hot tub • Exercise room • Business center Amenities • Courtesy Transportation • Guest Use Copy Machine • Outdoor Parking • Interior Corridors • Well-lit Area, In-Room • Government Travelers: FEMA Approved • 100% Smoke Free Hotel • Valet Cleaning Service* • No Pets Allowed • Outdoor Pool • Sundry Shop* • Free Hot Breakfast • Business Center • Exercise Room • Guest Use Fax Machine • Guest Laundry* * Indicates services/amenities that may require an additional cost. View Amenities Policies

Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

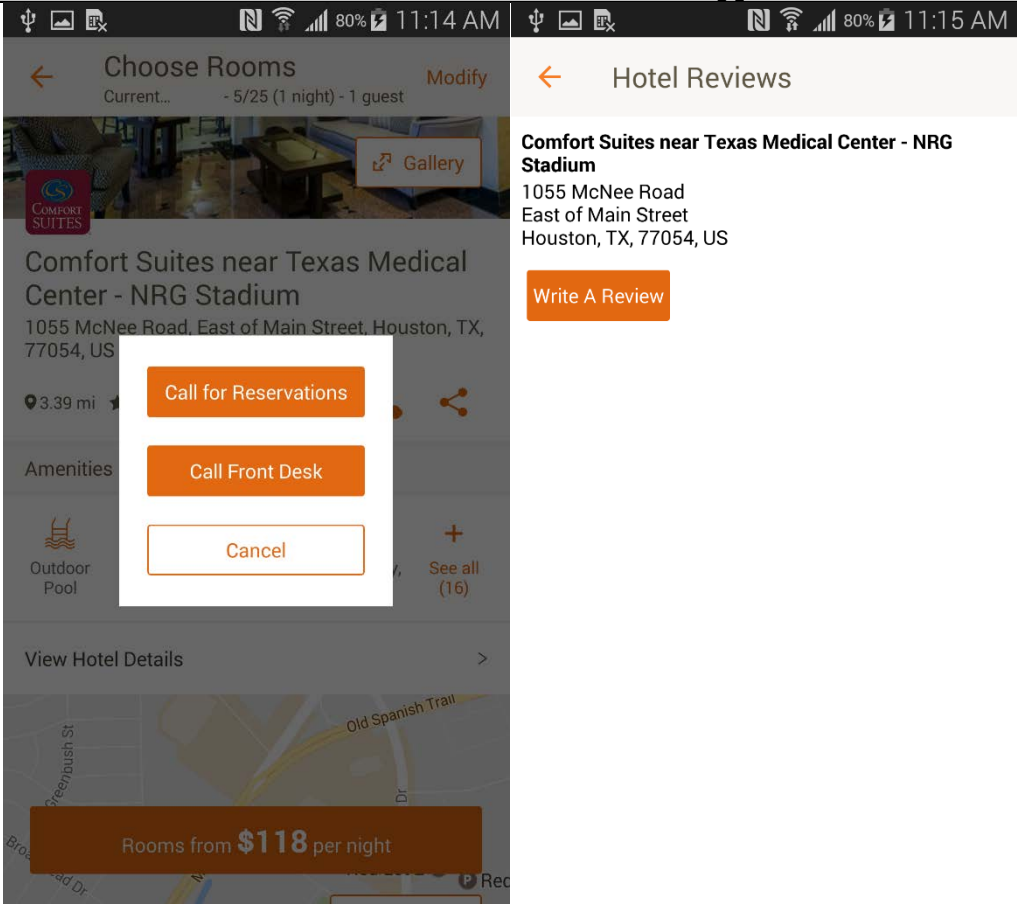
CLAIM 21	Choice Hotels Mobile Android App
	 The image displays two side-by-side screenshots of the Choice Hotels Mobile Android App. The left screenshot shows the 'Choose Rooms' screen for 'Comfort Suites near Texas Medical Center - NRG Stadium'. The screen includes a 'Modify' button, a 'Gallery' button, and a modal overlay with three buttons: 'Call for Reservations', 'Call Front Desk', and 'Cancel'. The right screenshot shows the 'Hotel Reviews' screen for the same hotel, featuring a 'Write A Review' button. Both screenshots show the hotel's address: 1055 McNee Road, East of Main Street, Houston, TX, 77054, US. The status bar at the top of both screenshots indicates 80% battery and the time 11:14 AM and 11:15 AM respectively. Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

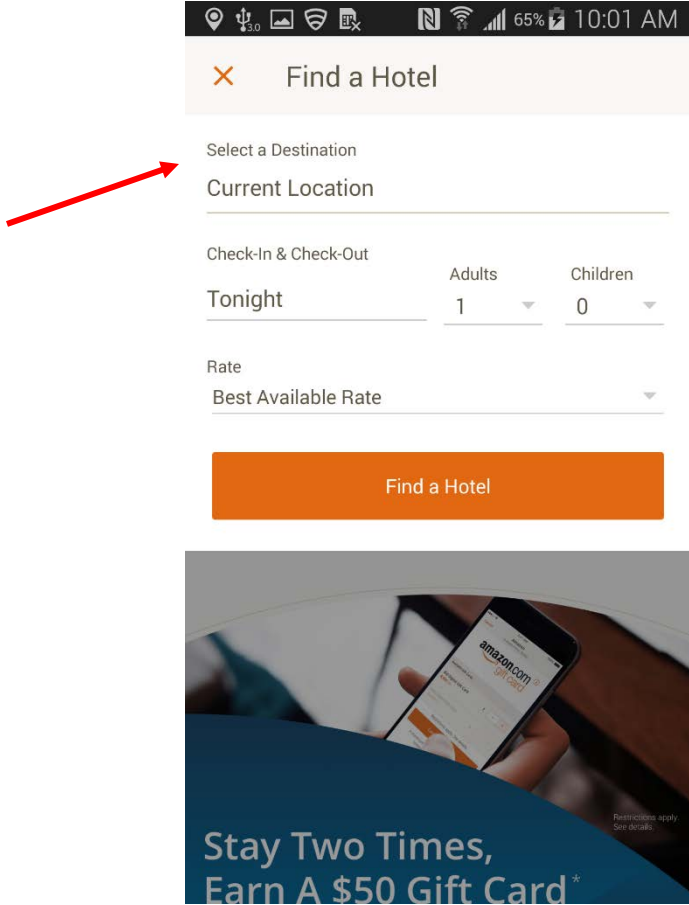
CLAIM 21	Choice Hotels Mobile Android App
(ii) automatically entering the GPS coordinates into said questionnaire:	When the “Find a Hotel” option is selected, the Choice Hotels App can search for Choice Hotel properties near the user’s current location, which is automatically determined from the phone’s current GPS coordinates. The user chooses “Select a Destination”  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

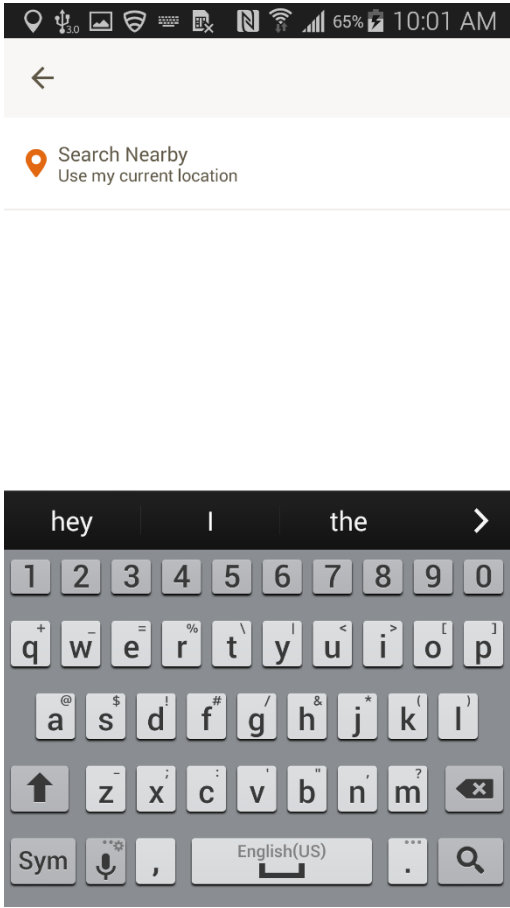
CLAIM 21	Choice Hotels Mobile Android App
	This presents the user with the option to “Search Nearby – Use my current location”  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

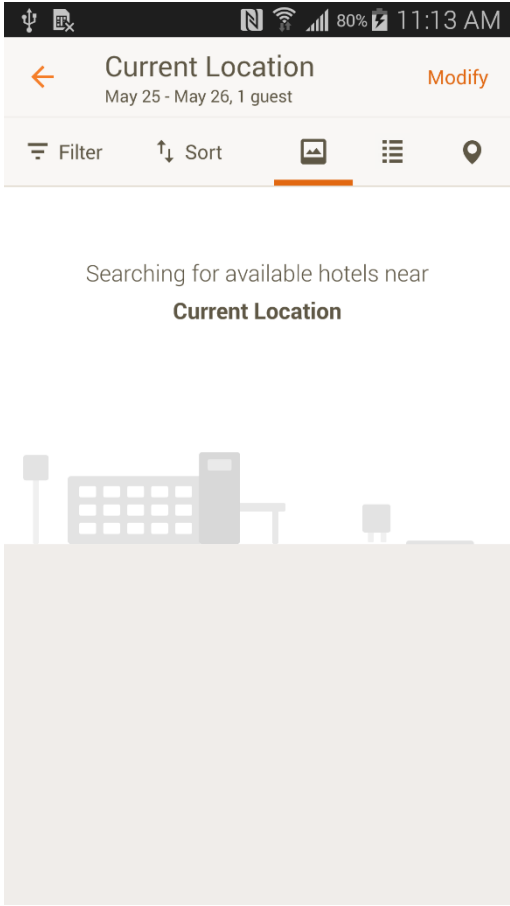
CLAIM 21	Choice Hotels Mobile Android App
	 Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

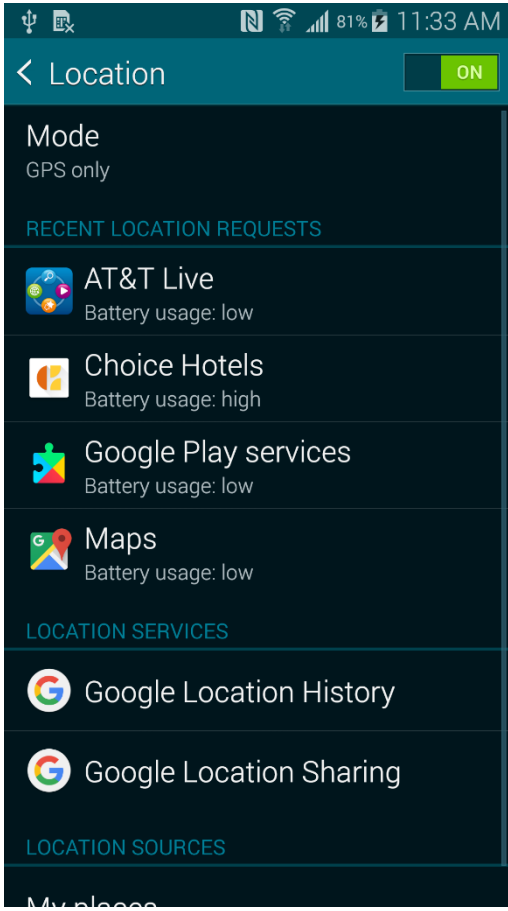
CLAIM 21	Choice Hotels Mobile Android App
	The Choice Hotels app uses the phone's internal GPS receiver:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE’S PRELIMINARY INFRINGEMENT CONTENTIONS

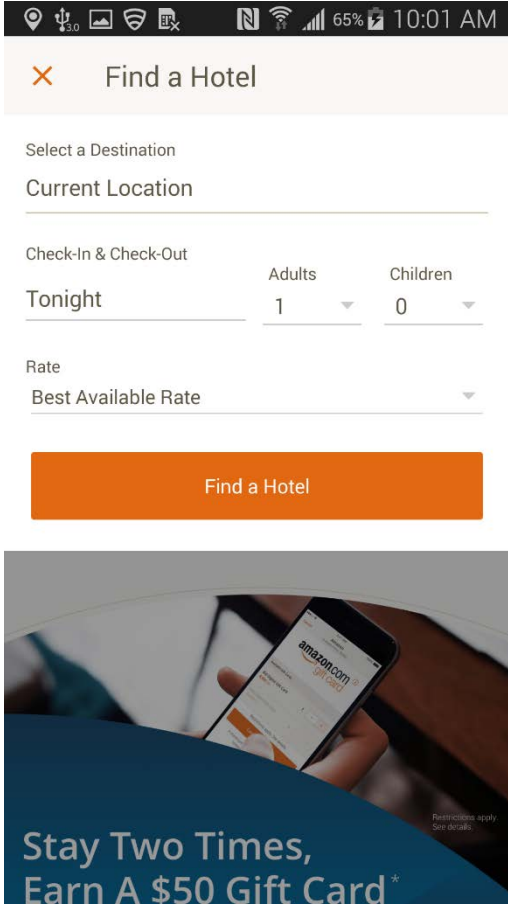
CLAIM 21	Choice Hotels Mobile Android App
(iii) presenting said at least one additional question to a user;	After determining the user’s location and automatically using that information as the “Destination”, the user is also presented with additional questions regarding the Check-In & Check-Out dates, the number of guests, and the Rate. Once that is done, the user must also select the desired Choice Hotels property.  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

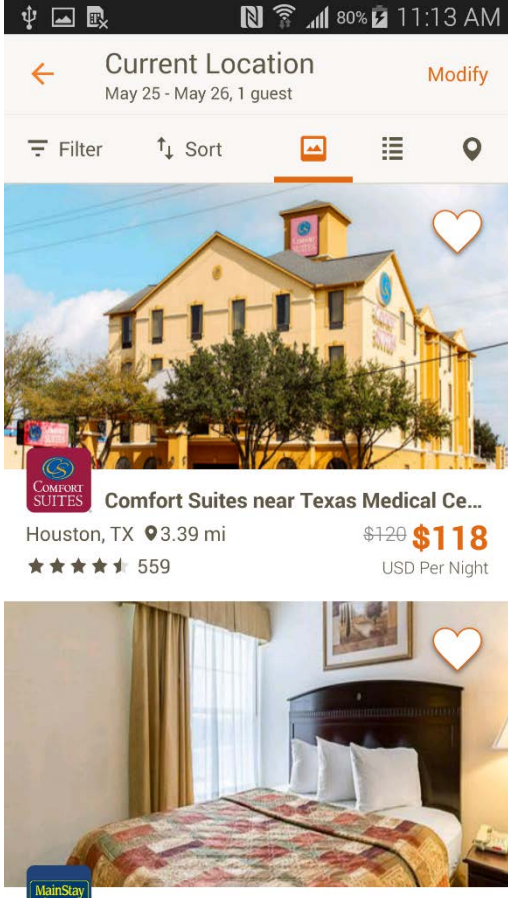
CLAIM 21	Choice Hotels Mobile Android App
	 Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

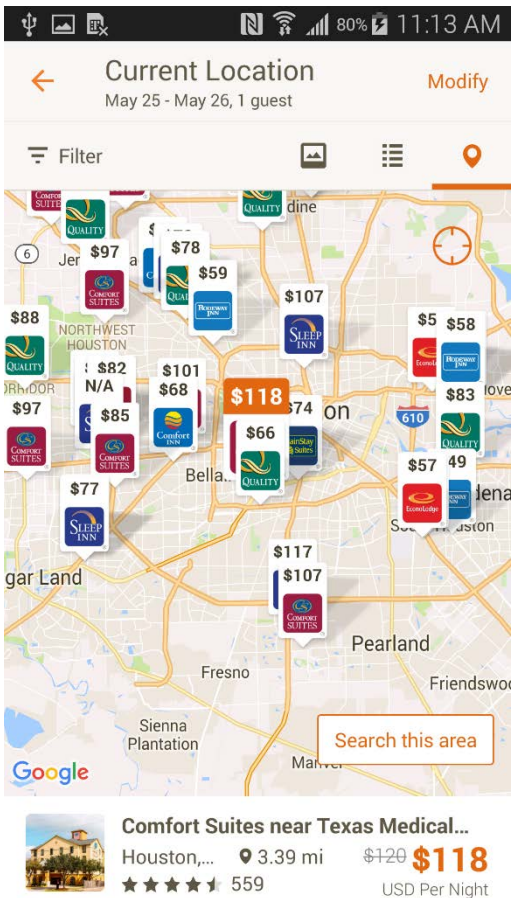
CLAIM 21	Choice Hotels Mobile Android App
	A screenshot of the Choice Hotels Mobile Android App. The top status bar shows a USB icon, signal strength, 80% battery, and the time 11:13 AM. The app interface has a header with a back arrow, 'Current Location', and a 'Modify' button. Below the header is a 'Filter' button and a map of Houston. The map is populated with hotel icons and price tags. A 'Search this area' button is at the bottom right of the map. Below the map, a card for 'Comfort Suites near Texas Medical...' is displayed, showing a photo of the hotel, the name, location 'Houston, TX', distance '3.39 mi', a crossed-out price '\$120', a current price '\$118', a rating of 4.5 stars from 559 reviews, and the unit 'USD Per Night'. Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

CLAIM 21	Choice Hotels Mobile Android App
(iv) receiving at least one response from the user to each of said presented at least one additional question,	The user must provide the Check-In & Check-Out dates, the number of guests, and the rate, which are all responses to the at least one additional question that are received. Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

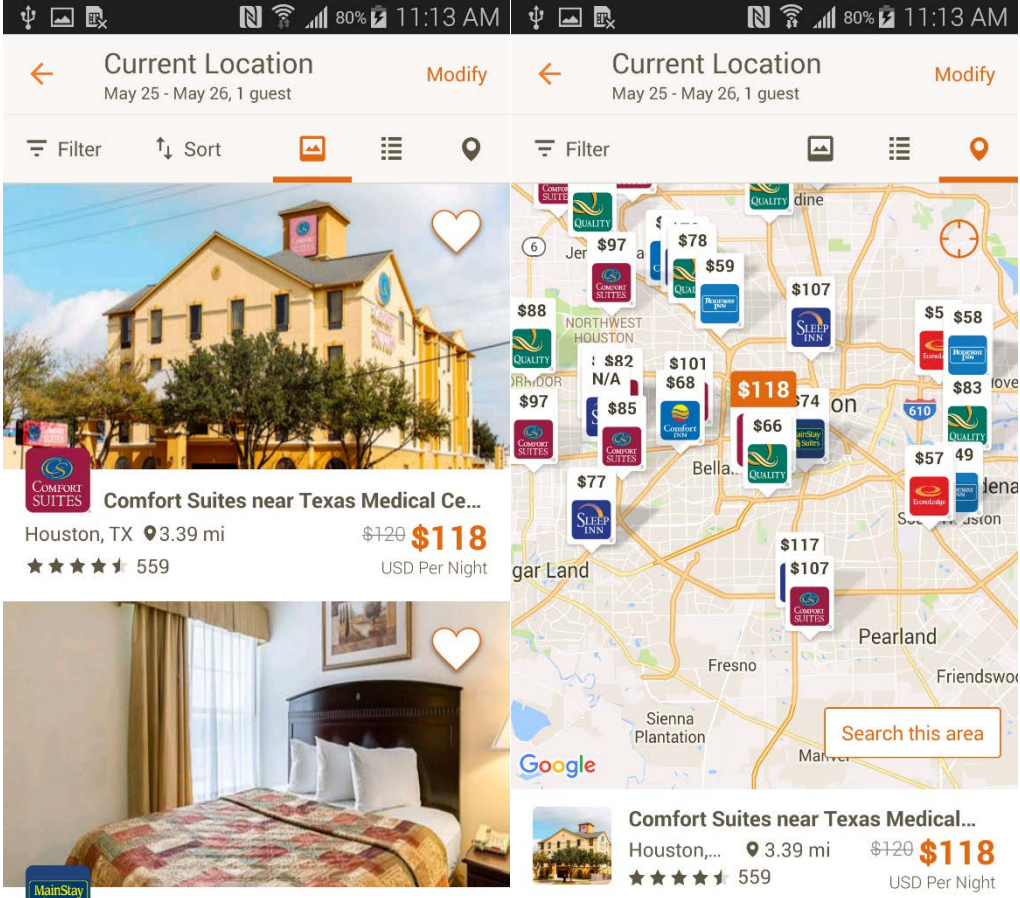
CLAIM 21	Choice Hotels Mobile Android App
	The user is then presented with Choice Hotels properties that meet the selected criteria.  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

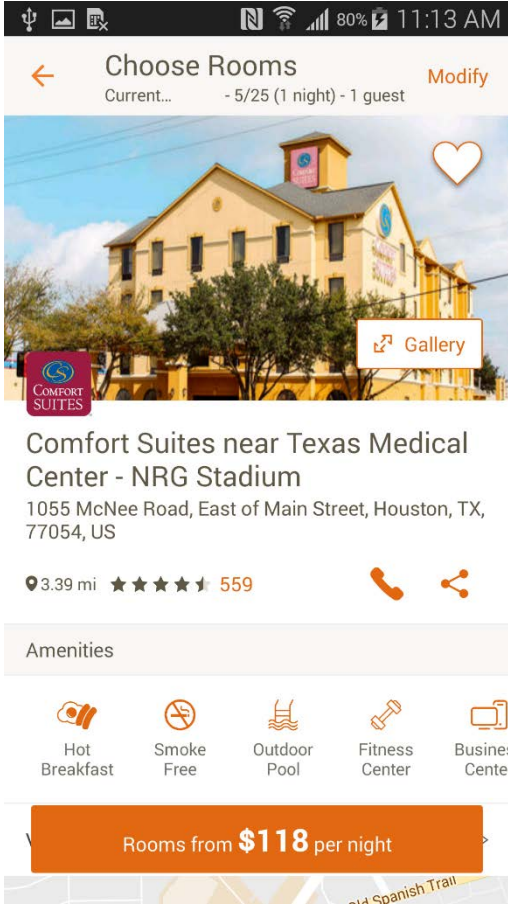
CLAIM 21	Choice Hotels Mobile Android App
	The user next selects the desired Choice Hotel property, which provides details information about that property, as well as the ability to reserve a room, write a review, and call the property:  The screenshot shows the 'Choose Rooms' screen in the Choice Hotels Mobile Android App. The status bar at the top indicates 80% battery and 11:13 AM. The app header shows a back arrow, 'Choose Rooms', and a 'Modify' button. Below the header, it displays 'Current...' and '- 5/25 (1 night) - 1 guest'. The main image is a photograph of the Comfort Suites hotel building, with a heart icon in the top right corner and a 'Gallery' button in the bottom right. Below the image, the text reads 'Comfort Suites near Texas Medical Center - NRG Stadium', followed by the address '1055 McNee Road, East of Main Street, Houston, TX, 77054, US'. Below the address, it shows '3.39 mi', a star rating of 5 stars, and '559' reviews. There are icons for a phone call and sharing. Below this is an 'Amenities' section with icons for 'Hot Breakfast', 'Smoke Free', 'Outdoor Pool', 'Fitness Center', and 'Business Center'. At the bottom, an orange button displays 'Rooms from \$118 per night'. Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

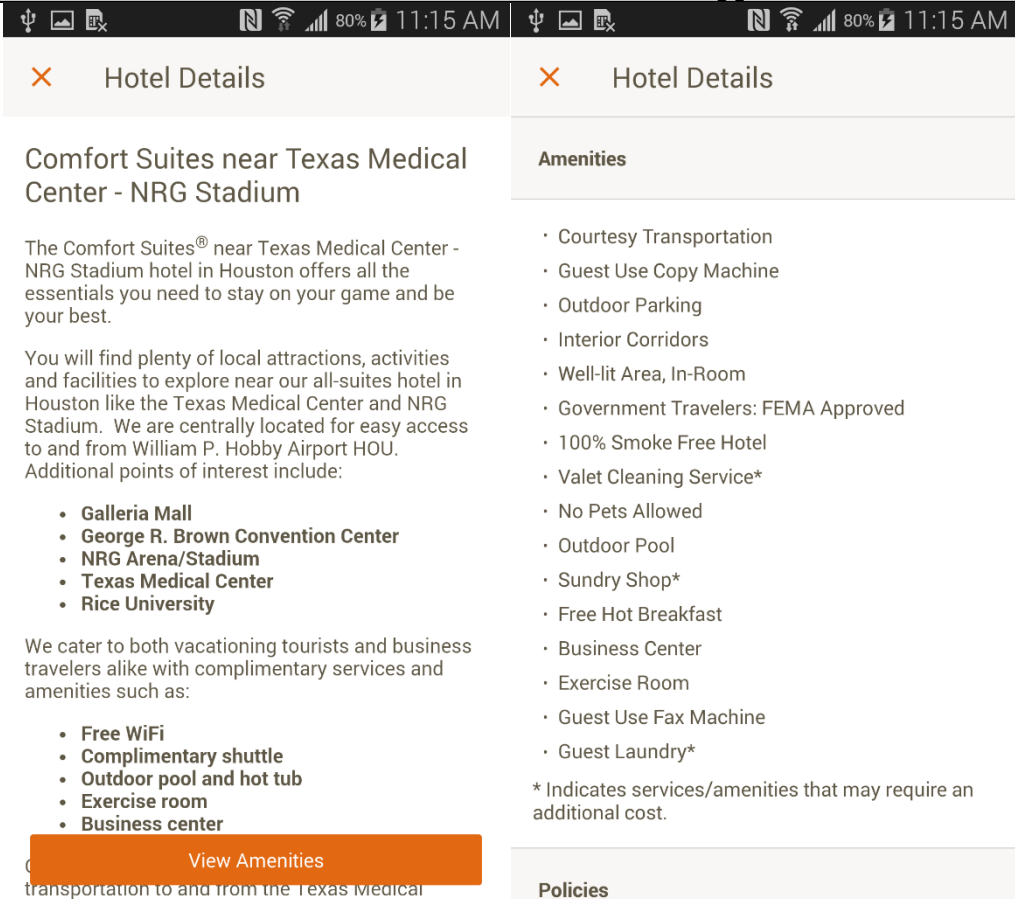
CLAIM 21	Choice Hotels Mobile Android App
	 Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

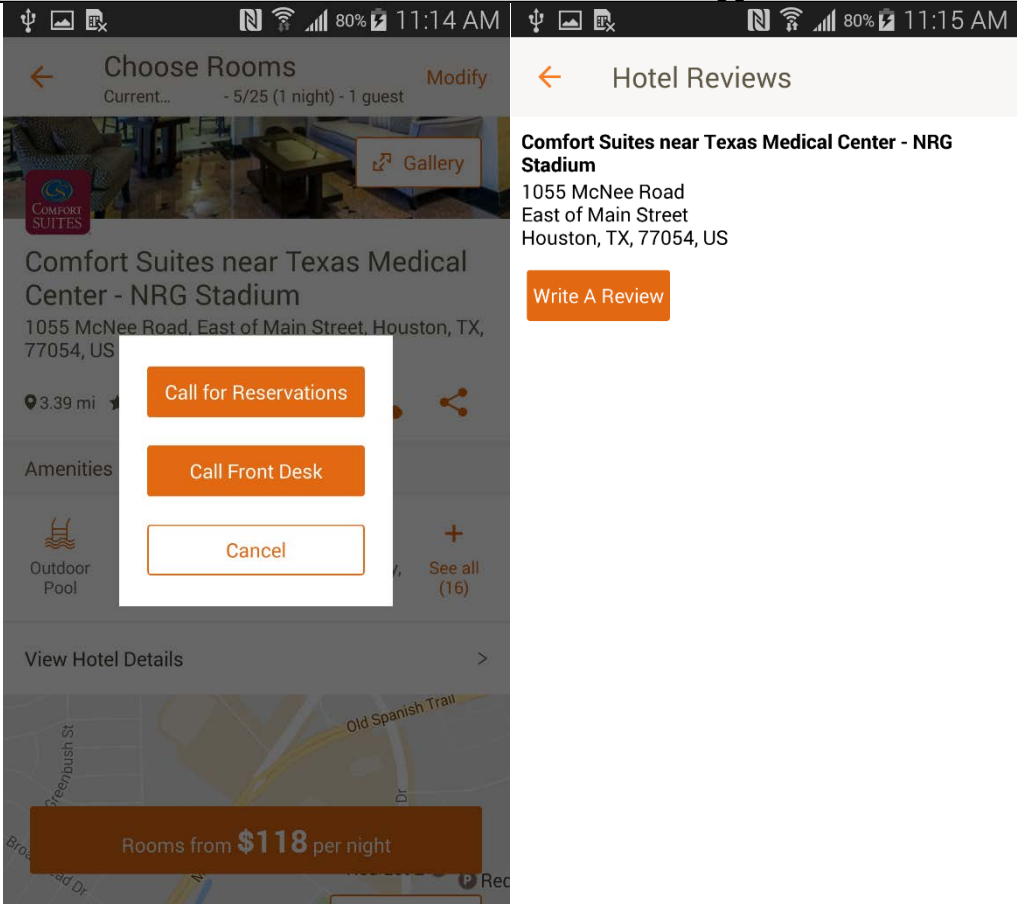
CLAIM 21	Choice Hotels Mobile Android App
	 The image displays two side-by-side screenshots of the Choice Hotels Mobile Android App. The left screenshot shows the 'Choose Rooms' screen for 'Comfort Suites near Texas Medical Center - NRG Stadium'. It includes a 'Modify' button, a 'Gallery' button, and a modal overlay with three orange buttons: 'Call for Reservations', 'Call Front Desk', and 'Cancel'. The right screenshot shows the 'Hotel Reviews' screen for the same hotel, displaying the address '1055 McNee Road, East of Main Street, Houston, TX, 77054, US' and a 'Write A Review' button. Both screenshots show the app's status bar at the top with a battery level of 80% and the time 11:14 AM and 11:15 AM respectively. Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

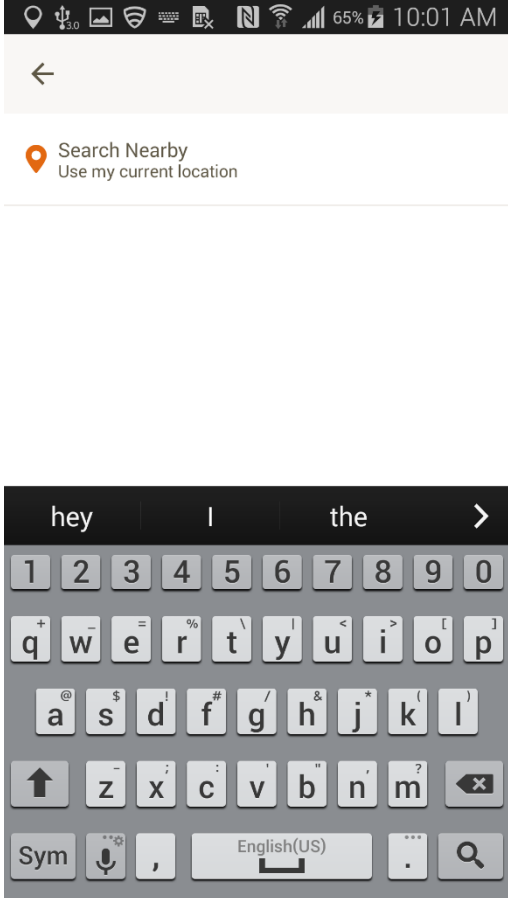
CLAIM 21	Choice Hotels Mobile Android App
(v) storing at least one value representative of said GPS coordinates and said at least one response within said handheld computing device;	The GPS coordinates are stored on the phone.  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

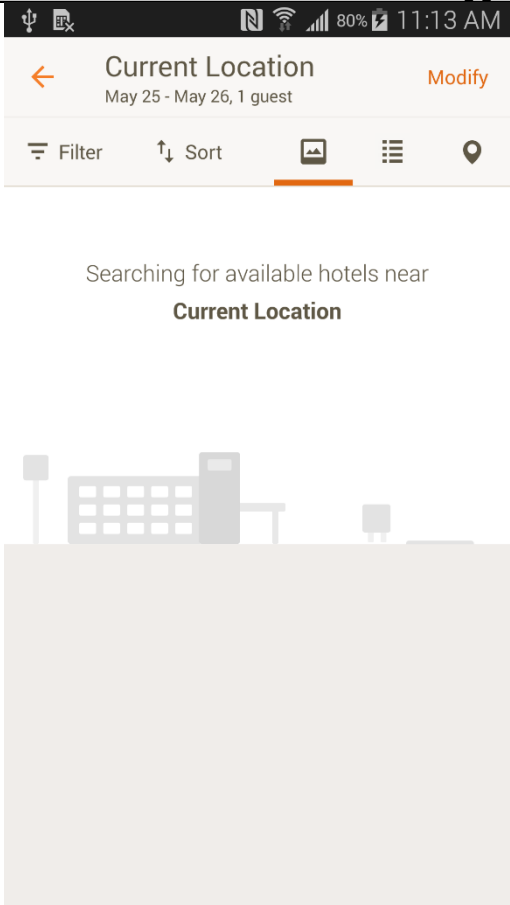
CLAIM 21	Choice Hotels Mobile Android App
	 Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

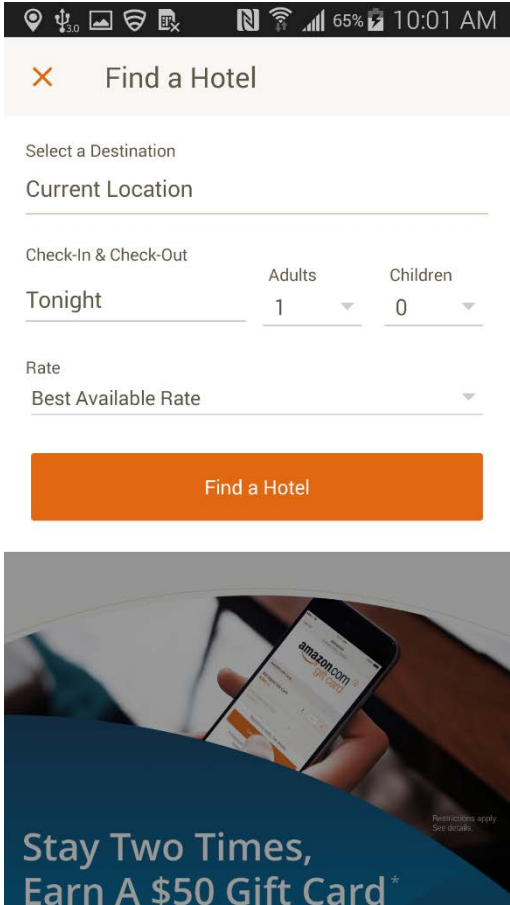
CLAIM 21	Choice Hotels Mobile Android App
	The Check-In & Check-Out dates, the number of guests, and the rate are also stored on the phone.  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

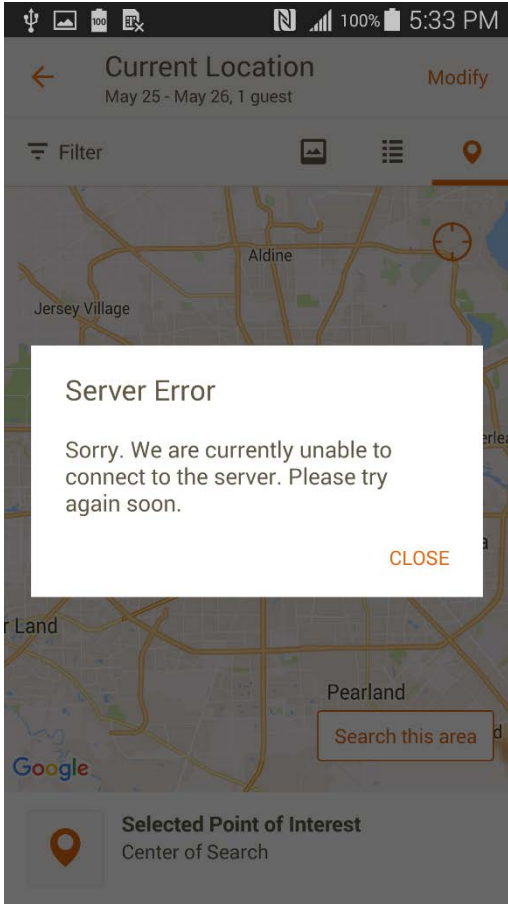
CLAIM 21	Choice Hotels Mobile Android App
(5) establishing a communications link between said handheld computing device and a recipient computer;	There must be communications between the user's phone (handheld computing device) and a recipient computer, the Choice Hotels servers. If the communications network, such as wifi or cellular internet access is disabled, the Choice Hotels App provides an error message:  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

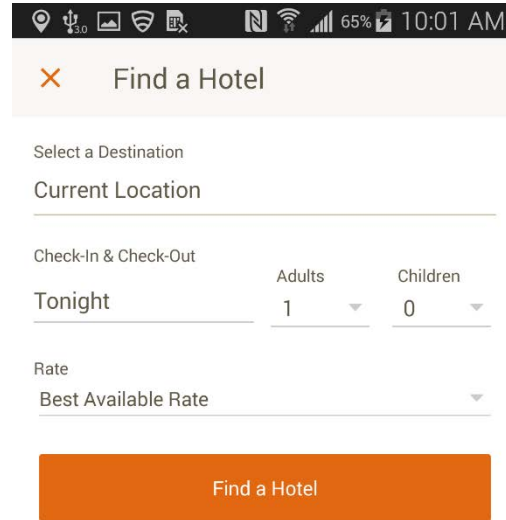
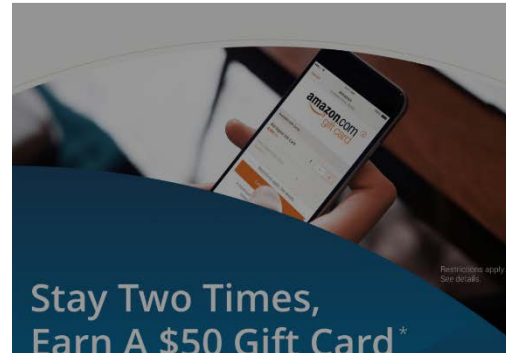
CLAIM 21	Choice Hotels Mobile Android App
(6) transmitting said stored at least one value representative of said GPS coordinates and said at least one response stored within said handheld computing device to said recipient computer; and,	At least one value representing at least one stored response, such as the selected Destination (at least one of which is determined using the user's GPS coordinates), as well as the Check-In & Check-Out dates, are transmitted to the Choice Hotels server (recipient computer). If the communications link is disabled, the user cannot search for a hotel.   Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

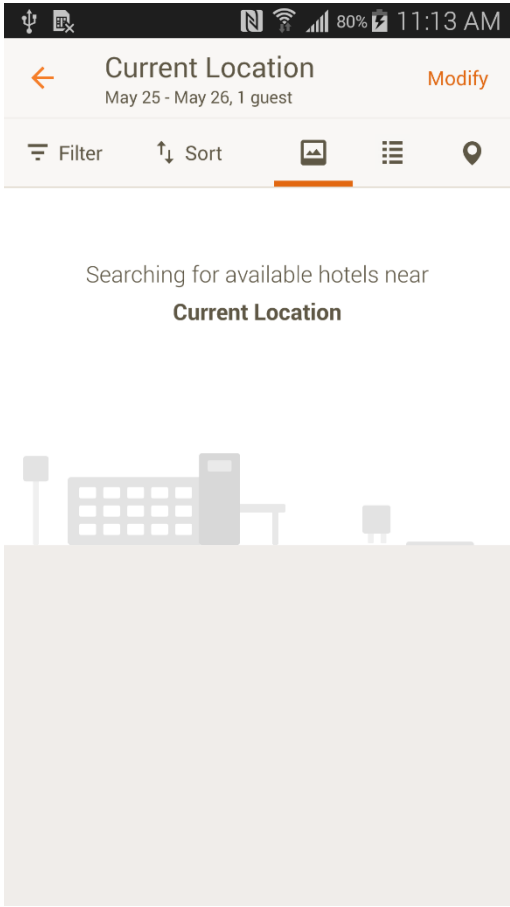
CLAIM 21	Choice Hotels Mobile Android App
	 Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

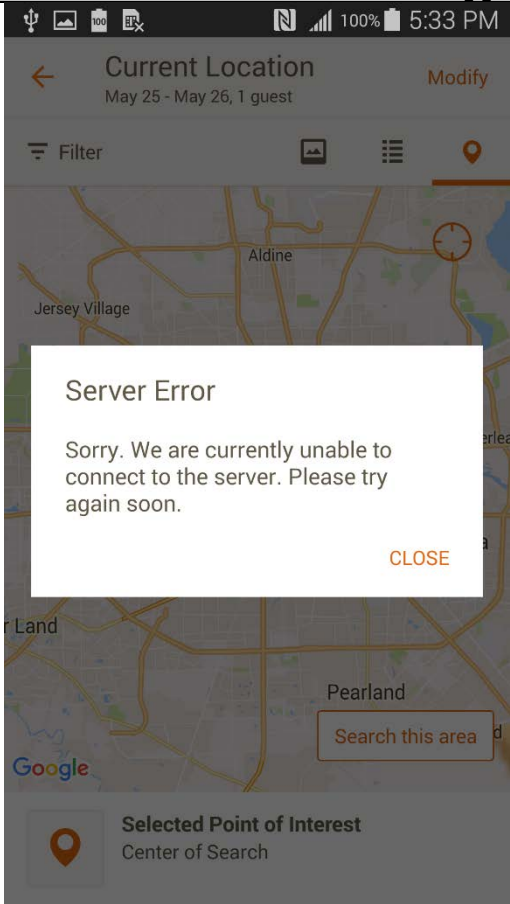
CLAIM 21	Choice Hotels Mobile Android App
	 Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

CLAIM 21	Choice Hotels Mobile Android App
(7) storing within said recipient computer any of said transmitted GPS coordinates and said at least one value representative of said at least one response, thereby creating said at least one user data item stored in said recipient computer; and,	The GPS coordinates, as well as other information, such as the Check-In & Check-Out dates and the selected Choice Hotels property, are stored on the Choice Hotels server.

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

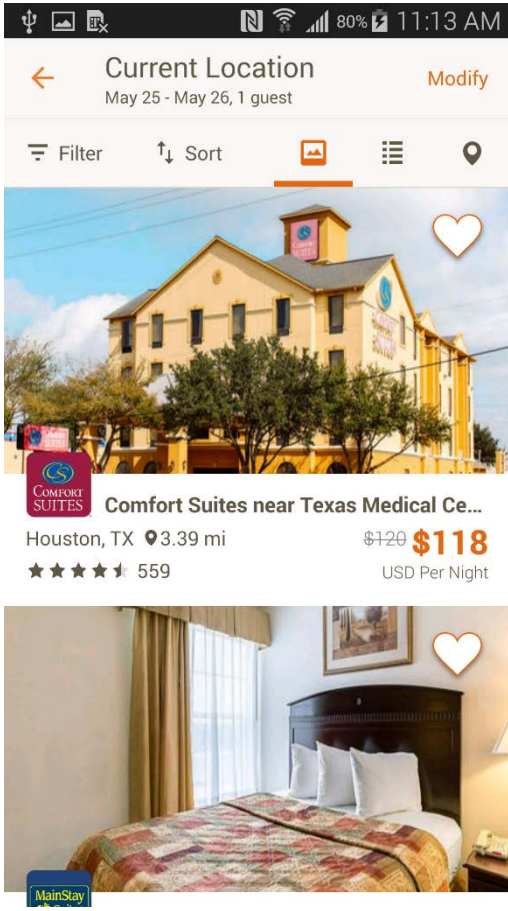
CLAIM 21	Choice Hotels Mobile Android App
(b) forming a visually perceptible report from any of said at least one stored user data item.	The Choice Hotels App provides a list of properties (visually perceptible report), which is determined by the user data items (location, date, number of guests, rate):  Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

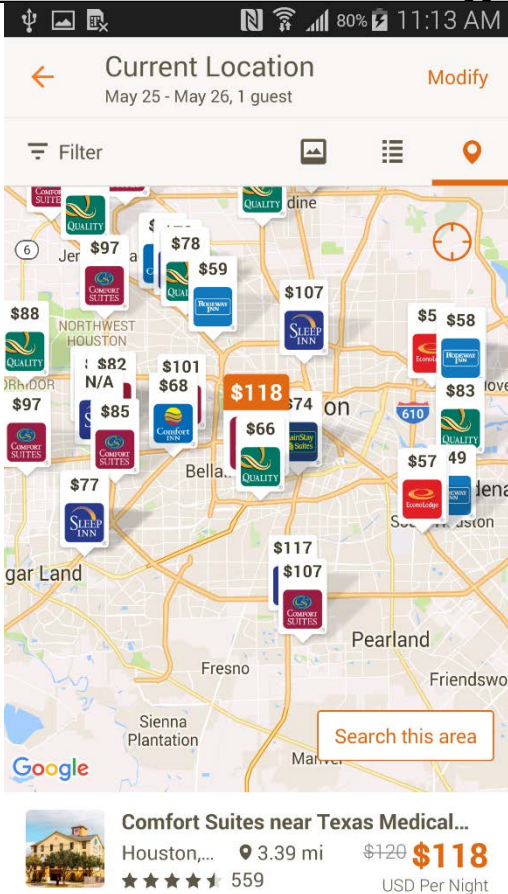
CLAIM 21	Choice Hotels Mobile Android App
	 Source: Screenshot of Choice Hotels Android app operating on Samsung Galaxy S5 smartphone

EXHIBIT 1 TO FALL LINE'S PRELIMINARY INFRINGEMENT CONTENTIONS

CLAIM 22	Choice Hotels Mobile Android App
The method according to claim 21, wherein said central computer and said recipient computer are a same computer.	The Choice Hotels App enables the user to reserve a room or rooms at a Choice Hotels property near the user's current location. The property information is provided to the Choice Hotels App via a central computer, which is a Choice Hotels server, only after the user has provided the desired date range, rate, and number of guests, as well as the user's current location (at least one user data item). The location information is sent to the recipient computer, which is the same Choice Hotels server.