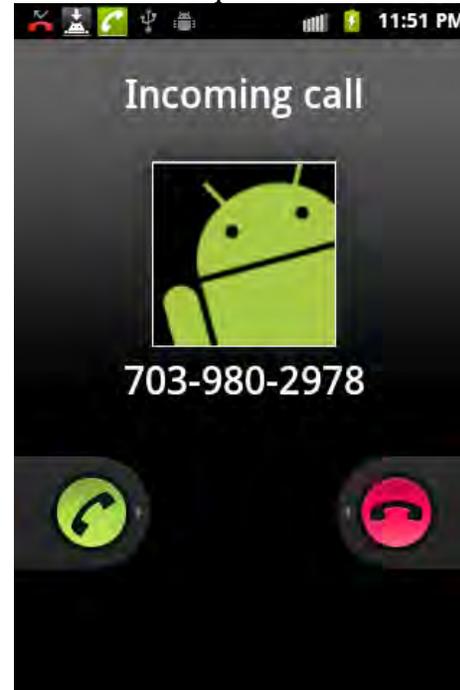


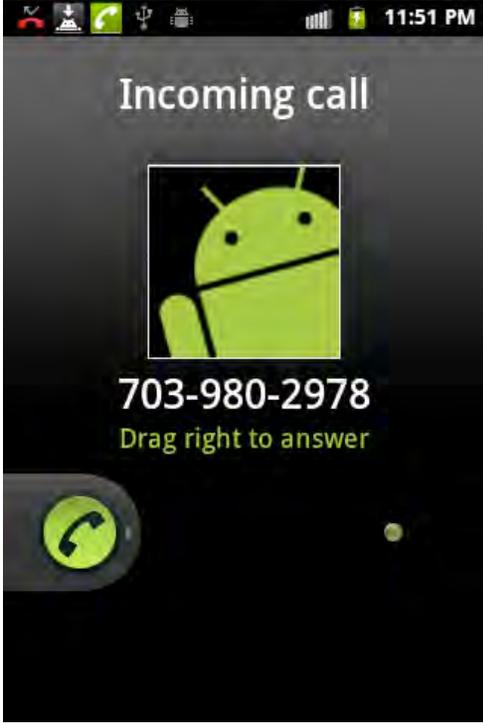
Claim 7 ¹	Infringement by the Samsung Conquer 4G
	<p>Further, the Samsung Conquer 4G includes instructions to detect contact with this unlock image as a user touches and then slides the image to the right to unlock the phone. As is shown below, when the Conquer 4G detects contact with the unlock image, the circle containing a representation of the phone's volume on the right side of display disappears and a small green circle appears. This small green circle corresponds to the predefined unlock region.</p>  <p>(Screenshots of the Samsung Conquer 4G detecting a contact with the unlock image on the locked home screen)</p>

Claim 7¹**Infringement by the Samsung Conquer 4G**

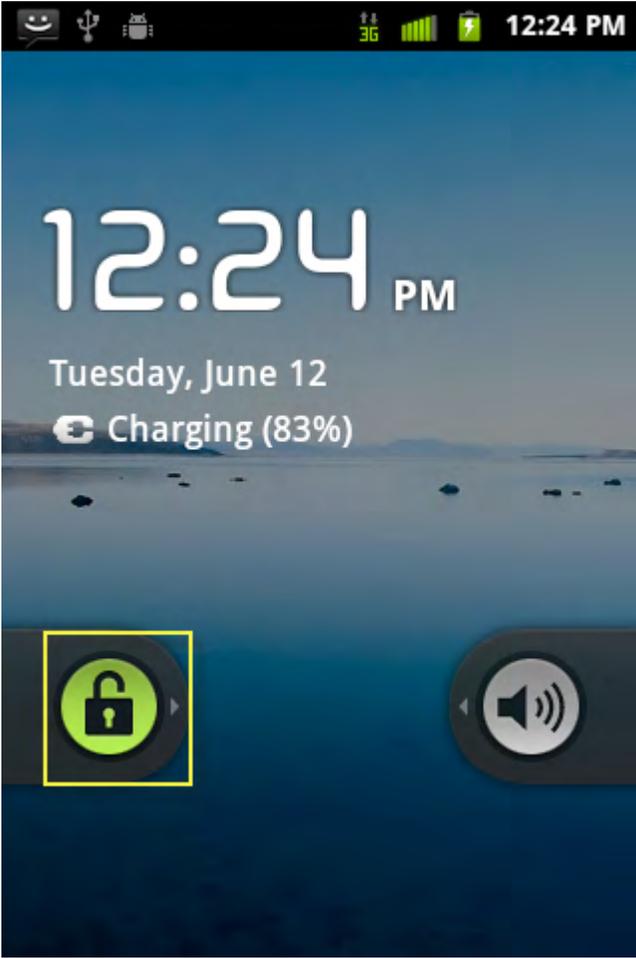
As a second example, when the locked Samsung Conquer 4G receives a call, it displays the caller's phone number and an unlock image on an incoming call screen, as shown below. The unlock image, which is a green icon containing the representation of a phone, appears at a predefined location at the left side of the Conquer 4G's touchscreen, as shown below.



(Screenshot of incoming call screen for locked Samsung Conquer 4G)

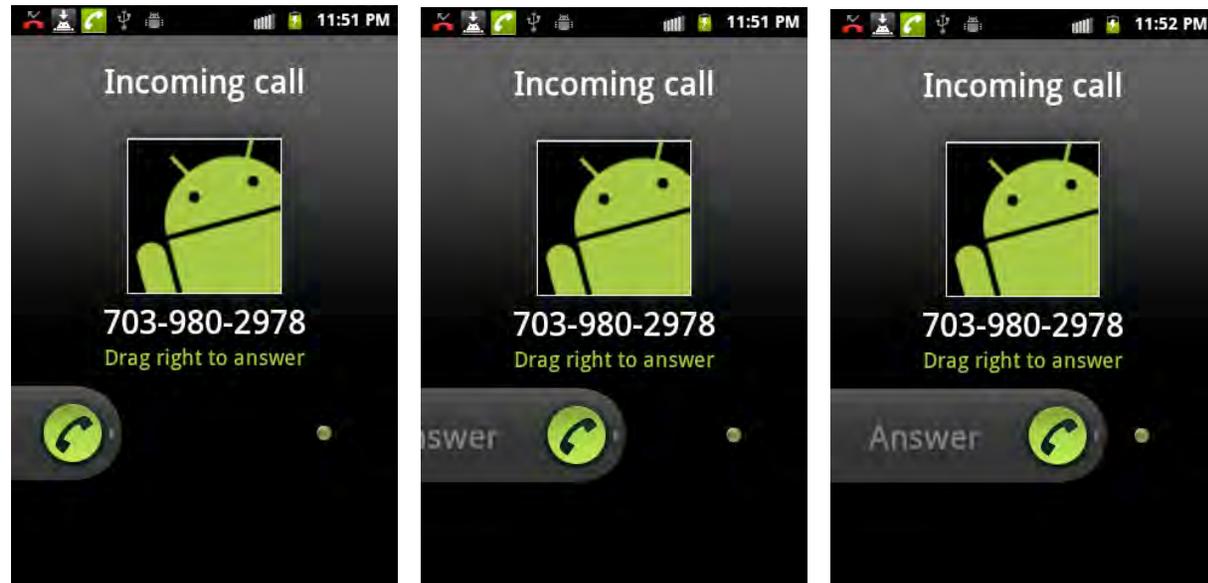
Claim 7 ¹	Infringement by the Samsung Conquer 4G
	<p>The Samsung Conquer 4G detects contact with this unlock image as a user touches and then slides the image to the right to unlock the phone and answer the call. As is shown below, when the Conquer 4G detects contact with the unlock image, the circle containing a representation of the reject call icon on the right side of display disappears and a small green circle appears. This small green circle denotes the predefined unlock region.</p>  <p>(Screenshot showing the Samsung Conquer 4G detecting contact with the incoming call unlock image)</p>

Claim 7 ¹	Infringement by the Samsung Conquer 4G
<p>to continuously move the unlock image on the touch-sensitive display in accordance with movement of the detected contact while continuous contact with the touch-sensitive display is maintained, wherein the unlock image is a graphical, interactive user-interface object with which a user interacts in order to unlock the device; and</p>	<p>The Samsung Conquer 4G's one or more modules include instructions to continuously move the unlock image on the touch-sensitive display in accordance with movement of the detected contact while continuous contact with the touch-sensitive display is maintained, wherein the unlock image is a graphical, interactive user-interface object with which a user interacts in order to unlock the device.</p> <p>Specifically, the Samsung Conquer 4G includes instructions that, as the user touches and slides the unlock image on the locked home screen, cause the Samsung Conquer 4G to continuously move the unlock image from left to right while the user maintains contact with the screen, as shown below.</p> <div data-bbox="737 631 1896 1187" data-label="Image"> </div> <p>(Screenshots showing the Samsung Conquer 4G continuously moving the unlock image as a user slides it to the right to unlock the phone)</p>

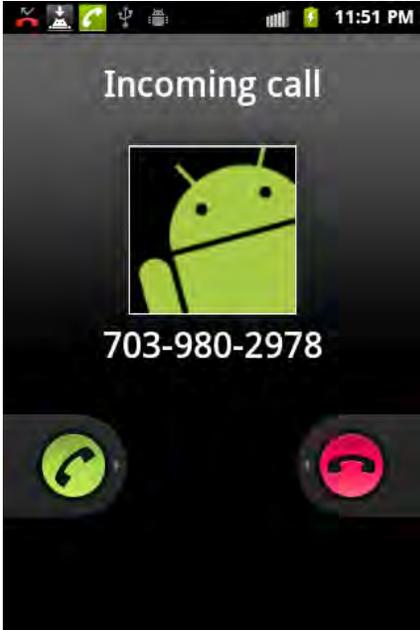
Claim 7 ¹	Infringement by the Samsung Conquer 4G
	<p>Moreover, the Samsung Conquer 4G's unlock image is a graphical, interactive user-interface object, namely a padlock icon on a green background with a circle around it, that the user touches and then slides across the touchscreen to unlock the phone, as shown below.</p>  <p>The screenshot shows the home screen of a Samsung Conquer 4G. At the top, there is a status bar with icons for a smiley face, USB, and a battery icon, along with the text '3G', signal strength bars, and the time '12:24 PM'. The main display area shows the time '12:24 PM' in large white digits, followed by 'Tuesday, June 12' and 'Charging (83%)' with a battery icon. At the bottom, there is a dark blue bar containing two circular icons: a green padlock icon on the left and a speaker icon on the right. The green padlock icon is highlighted with a yellow square.</p> <p>(Screenshot showing the unlock image (highlighted in yellow) on the locked Samsung Conquer 4G home screen)</p>

Claim 7¹**Infringement by the Samsung Conquer 4G**

As a second example, as the user touches and slides the green unlock image on the incoming call screen, the Samsung Conquer 4G continuously moves the unlock image from left to right on the touchscreen display while the user maintains contact with the screen, as shown below.



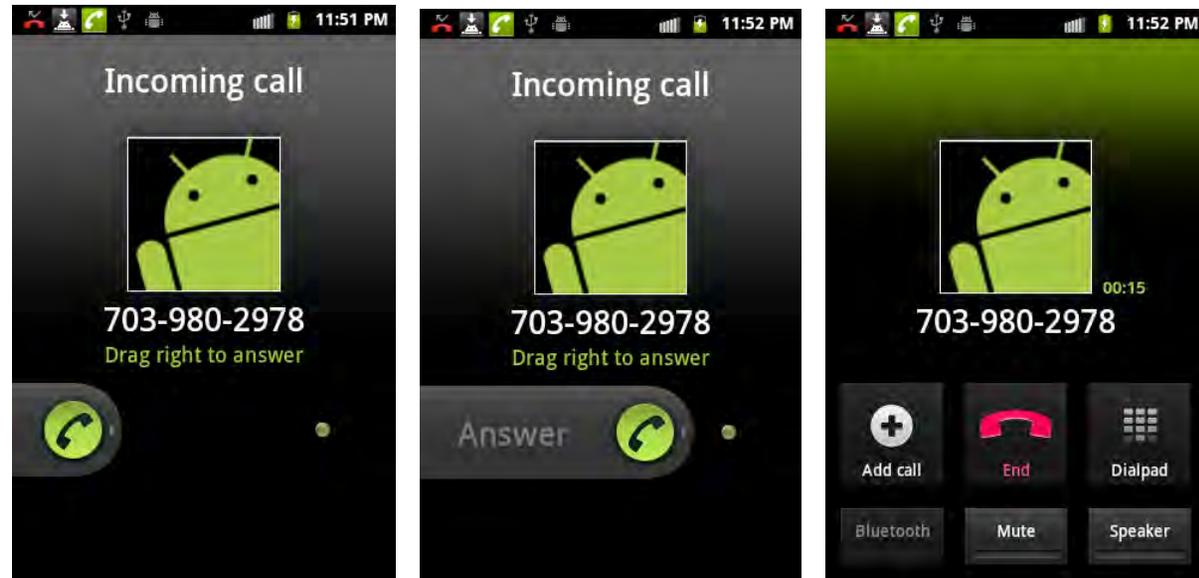
(Screenshots showing the incoming call unlock image on the locked Samsung Conquer incoming call screen)

Claim 7 ¹	Infringement by the Samsung Conquer 4G
	<p data-bbox="680 235 1885 341">Further, at the incoming call screen, the Samsung Conquer 4G's unlock image is a graphical, interactive user-interface object, namely a green image containing a representation of a phone, that the user touches and then slides across the touchscreen to unlock the phone.</p> <div data-bbox="1083 412 1503 1042"></div> <p data-bbox="716 1081 1875 1153">(Screenshots of the Samsung Conquer 4G continuously moving the messaging unlock image across the screen as the user slides her finger to the left to unlock the phone)</p>

Claim 7 ¹	Infringement by the Samsung Conquer 4G
<p>to unlock the hand-held electronic device if the unlock image is moved from the first predefined location on the touch screen to a predefined unlock region on the touch-sensitive display.</p>	<p>The Samsung Conquer 4G's one or more modules include instructions to unlock the hand-held electronic device if the unlock image is moved from the first predefined location on the touch screen to a predefined unlock region on the touch-sensitive display.</p> <p>Specifically, the Samsung Conquer 4G's one or more modules include instructions to unlock when the user slides the green unlock image from its original, predefined location at the left side of the touch screen to a predefined unlock region on the right side of the display. The predefined unlock region is denoted by a small green circle as shown below. When the unlock image reaches the green circle, the phone unlocks and all applications on the phone are available to the user.</p> <div data-bbox="688 630 1900 1209" data-label="Image"> <p>The image contains three sequential screenshots of the Samsung Conquer 4G's lock screen. The first screenshot shows a blue background with the time '12:25 PM' and 'Tuesday, June 12'. At the bottom, there is a green lock icon on the left and a small green circle on the right. The second screenshot is identical but with the word 'Unlock' in white text between the lock icon and the green circle. The third screenshot shows the phone's home screen with a Google search bar at the top, a 'Voicemail' notification, and several app icons (Email, Contacts, Messaging, Market) at the bottom. A white callout box with a blue border says 'Swipe side to side to see additional desktops'.</p> </div> <p>(Screenshots of the Samsung Conquer 4G showing the unlock image sliding to the right as a user unlocks the phone)</p>

Claim 7¹**Infringement by the Samsung Conquer 4G**

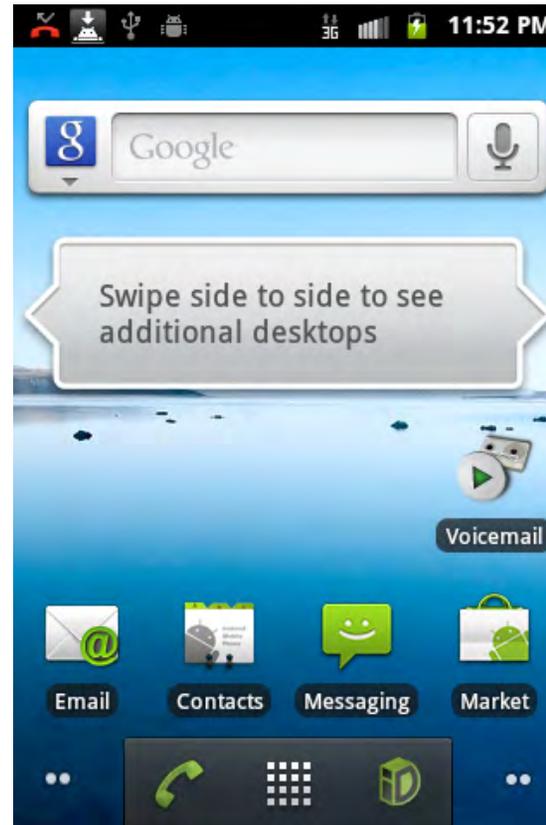
As a second example, the Samsung Conquer 4G unlocks to permit the user to answer an incoming phone call when the user slides the green unlock image from its original location at the left side of the touch-sensitive display to a predefined unlock region on the right side of the touch-sensitive display. The predefined unlock region is denoted by a green circle as shown below.



(Screenshots of the Samsung Conquer 4G showing the incoming call unlock image sliding to the right and the phone unlocking as the image reaches the predefined unlock region)

Claim 7¹**Infringement by the Samsung Conquer 4G**

After the user answers and then terminate the call, the Samsung Conquer 4G remains unlocked for the user to operate. Thus, it is in a user-interface unlock state.

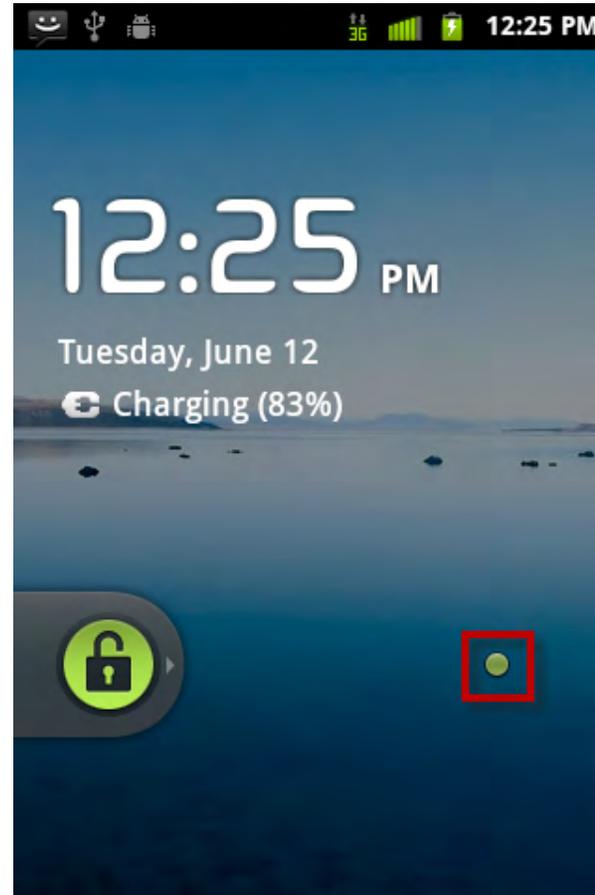


(Screenshot of the unlocked Samsung Conquer 4G after the user exits the phone application)

Claim 8	Infringement by the Samsung Conquer 4G
<p>8. The device of claim 7, further comprising instructions to display visual cues to communicate a direction of movement.</p>	<p>The Samsung Conquer 4G's one or more modules further comprise instructions to display visual cues to communicate a direction of movement. Specifically, the Samsung Conquer 4G's one or more modules include instructions to display an arrow on the phone's green unlock image on the locked home screen. The arrow is a visual cue that directs the user to slide the image to the right to unlock the phone. The presence of the arrow on the unlock image is shown below.</p> <div data-bbox="1045 488 1545 1235" data-label="Image"> </div> <p>(Screenshot of the Samsung Conquer 4G unlock image with the arrow circled in yellow)</p>

Claim 8**Infringement by the Samsung Conquer 4G**

Moreover, when the Samsung Conquer 4G detects user contact with the green unlock image, it displays a small green circle in the predefined unlock region on the right side of the display, providing the user with an additional visual cue regarding the direction of movement.



(Screenshot of the Samsung Conquer 4G as it is detecting contact with the unlock image, displaying a second visual cue regarding direction of movement (highlighted in red))

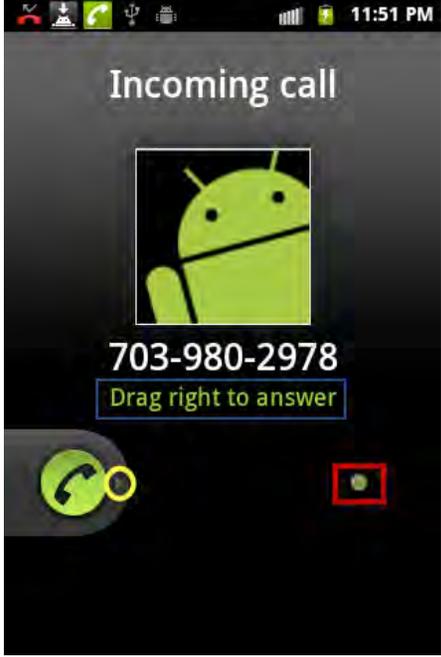
Claim 8	Infringement by the Samsung Conquer 4G
	<p>As a second example, the Samsung Conquer 4G displays an arrow on the incoming call unlock image. The arrow is a visual cue that directs the user to slide the image to the right to unlock the phone. The presence of the arrow on the unlock image is shown below. Further, when the Samsung Conquer 4G detects contact with the incoming call unlock image, it displays a green circle in the predefined unlock region on the locked home screen, also shown below. This green circle is a further visual cue directing the user's movement. Third, the Samsung Conquer 4G provides textual direction as well, instructing the user to "Drag right to answer."</p>  <p>(Screenshot of the incoming call screen displaying the various visual cues for unlocking the phone)</p>

EXHIBIT F4

DART

INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,046,721

INFRINGEMENT OF U.S. PATENT NO. 8,046,721 BY THE SAMSUNG DART (SGH-T499)

Claim 7 ¹	Infringement by the Samsung Dart
<p>7. A portable electronic device, comprising:²</p>	<p>To the extent that the preamble of claim 7 may be construed to be limiting, the Samsung Dart is a portable electronic device. Specifically, the Samsung Dart, which is available from T-Mobile, is an Android smartphone with a 3.14” touch screen display. (See Samsung, Dart Specifications, http://www.samsung.com/us/mobile/cell-phones/SGH-T499MABTMB-specs). It weighs 3.8 oz. and measures 4.09” (L) x 2.39” (W) x 0.48” (D). (<i>Id.</i>). Further, the Samsung Dart is powered by a rechargeable Lithium ion battery. (Samsung Dart User Manual, at 8). Further, the Dart is equipped with the Android 2.2, Froyo, operating system. (Samsung Dart Overview, http://www.samsung.com/us/mobile/cell-phones/SGH-T499MABTMB).</p> <div data-bbox="953 607 1633 1192" data-label="Image"> </div> <p>(Samsung Dart Specifications, http://www.samsung.com/us/mobile/cell-phones/SGH-T499MABTMB-gallery).</p>

¹ Pursuant to Apple Inc’s List of Accused Products and Asserted Patent Claims Pursuant To Court Order of March 8, 2013, *see* D.I. 394 & 467, Apple is only asserting claim 8 of U.S. Patent No. 8,046,721. Because claim 8 is a dependent claim of claim 7, the infringement chart for claim 7 is included for reference.

² Apple’s inclusion of citations related to any claim preamble in this infringement claim chart should not be interpreted as an admission that the preamble is limiting. Apple reserves the right to take the position that the claim preamble is limiting or not limiting on a claim-by-claim basis.

Claim 7 ¹	Infringement by the Samsung Dart
<p>a touch-sensitive display;</p>	<p>The Samsung Dart comprises a touch-sensitive display.</p> <p>According to the Samsung Dart’s User Manual, it has a touch screen display and onscreen keyboard that allow the user to navigate the features of her phone and enter characters. (Dart User Manual, at 24). A user interacts with the Samsung Dart’s applications by, for example, tapping items on the touchscreen to select or launch them, touching and holding screen items to activate them, or swiping/sliding, meaning quickly dragging a finger vertically or horizontally across the screen. (<i>Id.</i> at 25).</p> <div style="text-align: center;"> <p>Press and hold Tap Touch and hold</p>  </div>

Claim 7'

Infringement by the Samsung Dart



(Id. at 25).

The '721 specification makes clear that a touch-sensitive display is the same as a touchscreen display. (See '721 patent 1:25-26 (“Touch-sensitive displays (also known as ‘touch screens’ or ‘touchscreens’) are well known in the art.”)).

Claim 7 ¹	Infringement by the Samsung Dart
memory;	<p>The Samsung Dart comprises memory.</p> <p>Specifically, the Samsung Dart has internal memory, as shown in the screenshot below.</p>  <p>(Screenshot of Samsung Dart showing available internal phone memory and SD card memory)</p>
one or more processors;	<p>The Samsung Dart comprises one or more processors.</p> <p>(See Samsung Dart Specifications, http://www.samsung.com/us/mobile/cell-phones/SGH-T499MABTMB-specs).</p>

Claim 7 ¹	Infringement by the Samsung Dart
<p>one or more modules stored in the memory and configured for execution by the one or more processors, the one or more modules including instructions:</p>	<p>The Samsung Dart comprises one or more modules stored in the memory and configured for execution by the one or more processors, the one or more modules including instructions.</p> <p>The Samsung Dart contains, among other modules, a contact/motion module in its memory that is configured for execution by the Samsung Dart's processor. This module allows the Samsung Dart to detect contact with the touchscreen. The Samsung Dart User Manual discloses some of those contacts that the contact/motion module detects, as shown below.</p> <p><i>Navigating Through the Screens</i></p> <p>The following terms describe the most common hardware and on-screen actions.</p> <ul style="list-style-type: none"> • Touch and hold: Touch and hold an icon or key to open the available options, or to access a pop-up menu. For example: press and hold from the Home screen to access a menu of customization options.

Claim 7 ¹	Infringement by the Samsung Dart
	<div style="display: flex; justify-content: space-around; text-align: center;"> <div data-bbox="693 243 924 284">Press and hold</div> <div data-bbox="1029 243 1113 284">Tap</div> <div data-bbox="1239 243 1470 284">Touch and hold</div> </div> <div style="text-align: center; margin: 10px 0;">  </div> <ul style="list-style-type: none"> • Press and hold: Pressing relates to use of the hardware keys and buttons to select or activate an item. For example: press the Navigation key to scroll through a menu. Some buttons and keys require you to press and hold them to activate a feature, for example, you press the Lock key to lock and unlock the phone. • Tap: Use a brief touch to select items on the display or to enter text on the virtual QWERTY keyboard. For example: touch an Application icon to open the application. A light touch works best.

Claim 7'

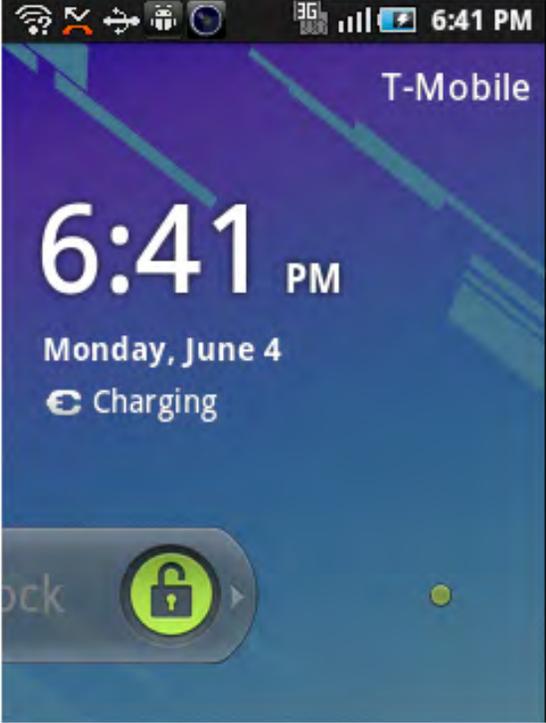
Infringement by the Samsung Dart

- **Swipe or slide:** Quickly drag your finger vertically or horizontally across the screen. This allows you to move the area of focus or to scroll through a list. For example: slide your finger left or right on the Home screen to scroll among the seven panels.



(Dart User Manual, at 25).

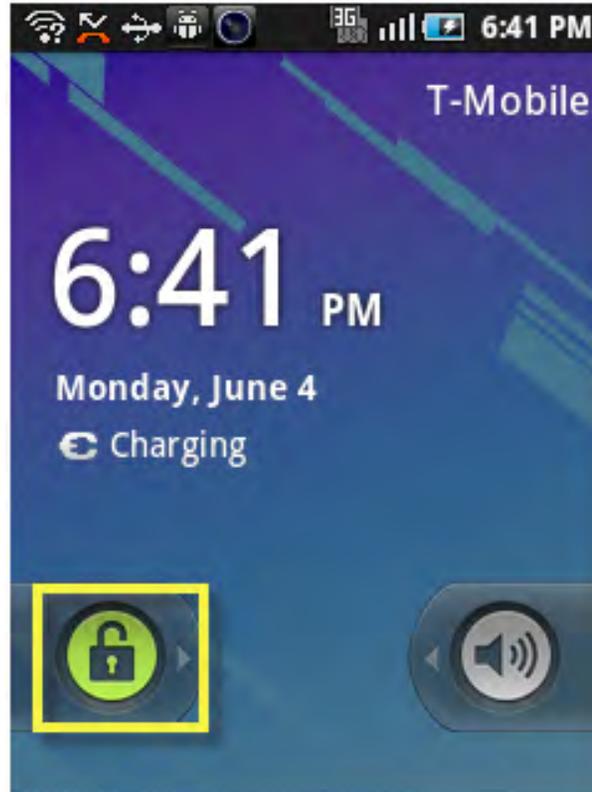
Claim 7 ¹	Infringement by the Samsung Dart
<p>to detect a contact with the touch-sensitive display at a first predefined location corresponding to the unlock image;</p>	<p>The Samsung Dart's one or more modules include instructions to detect a contact with the touch-sensitive display at a first predefined location corresponding to the unlock image.</p> <p>Specifically, the Samsung Dart includes instructions to, when the Dart's home screen is locked, display an unlock image at a predefined location at the left side of the touchscreen. As is shown in the screenshot below, this unlock image is a padlock icon on a green background with a circle around it.</p> <div data-bbox="1045 526 1541 1182" data-label="Image"> </div> <p>(Screenshot of the locked home screen for the Samsung Dart, displaying the unlock image at a predefined location on the left side of the touchscreen display)</p>

Claim 7 ¹	Infringement by the Samsung Dart
	<p>Further, the Samsung Dart includes instructions to detect contact with this unlock image as a user touches and then slides the image to the right to unlock the phone. As is shown below, when the Dart detects contact with the unlock image, the circle containing a representation of the phone's volume on the right side of display disappears and a small green circle appears. This small green circle corresponds to the predefined unlock region.</p>  <p>(Screenshots of the Samsung Dart detecting a contact with the unlock image on the locked home screen)</p>

Claim 7 ¹	Infringement by the Samsung Dart
<p>to continuously move the unlock image on the touch-sensitive display in accordance with movement of the detected contact while continuous contact with the touch-sensitive display is maintained, wherein the unlock image is a graphical, interactive user-interface object with which a user interacts in order to unlock the device; and</p>	<p>The Samsung Dart's one or more modules include instructions to continuously move the unlock image on the touch-sensitive display in accordance with movement of the detected contact while continuous contact with the touch-sensitive display is maintained, wherein the unlock image is a graphical, interactive user-interface object with which a user interacts in order to unlock the device.</p> <p>Specifically, the Samsung Dart includes instructions that, as the user touches and slides the unlock image on the locked home screen, cause the Samsung Dart to continuously move the unlock image from left to right while the user maintains contact with the screen, as shown below.</p> <div data-bbox="697 634 1898 1141" data-label="Image"> </div> <p>(Screenshots showing the Samsung Dart continuously moving the unlock image as a user slides it to the right to unlock the phone)</p>

Claim 7¹**Infringement by the Samsung Dart**

Moreover, the Samsung Dart's unlock image is a graphical, interactive user-interface object, namely a padlock icon on a green background with a circle around it, that the user touches and then slides across the touchscreen to unlock the phone, as shown below.



(Screenshot showing the unlock image (highlighted in yellow) on the locked Samsung Dart home screen)

Claim 7 ¹	Infringement by the Samsung Dart
<p>to unlock the hand-held electronic device if the unlock image is moved from the first predefined location on the touch screen to a predefined unlock region on the touch-sensitive display.</p>	<p>The Samsung Dart's one or more modules include instructions to unlock the hand-held electronic device if the unlock image is moved from the first predefined location on the touch screen to a predefined unlock region on the touch-sensitive display.</p> <p>Specifically, the Samsung Dart's one or more modules include instructions to unlock when the user slides the green unlock image from its original, predefined location at the left side of the touch screen to a predefined unlock region on the right side of the display. The predefined unlock region is denoted by a small green circle as shown below. When the unlock image reaches the green circle, the phone unlocks and all applications on the phone are available to the user.</p> <div data-bbox="703 634 1900 1136" data-label="Image"> </div> <p>(Screenshots of the Samsung Dart showing the unlock image sliding to the right as a user unlocks the phone)</p>

Claim 8	Infringement by the Samsung Dart
<p>8. The device of claim 7, further comprising instructions to display visual cues to communicate a direction of movement.</p>	<p>The Samsung Dart's one or more modules further comprise instructions to display visual cues to communicate a direction of movement. Specifically, the Samsung Dart's one or more modules include instructions to display an arrow on the phone's green unlock image on the locked home screen. The arrow is a visual cue that directs the user to slide the image to the right to unlock the phone. The presence of the arrow on the unlock image is shown below.</p> <div data-bbox="1024 451 1570 1182" data-label="Image">A screenshot of a Samsung Dart smartphone's locked home screen. The screen has a blue background with a large green lock icon at the bottom center. A yellow circle highlights a small yellow arrow pointing to the right, which is part of the lock icon. The screen displays the time '6:41 PM', the date 'Monday, June 4', and 'Charging' with a battery icon. The carrier name 'T-Mobile' is visible at the top right. The status bar at the top shows various icons including Wi-Fi, Bluetooth, and signal strength.</div> <p>(Screenshot of the Samsung Dart unlock image with the arrow circled in yellow)</p>

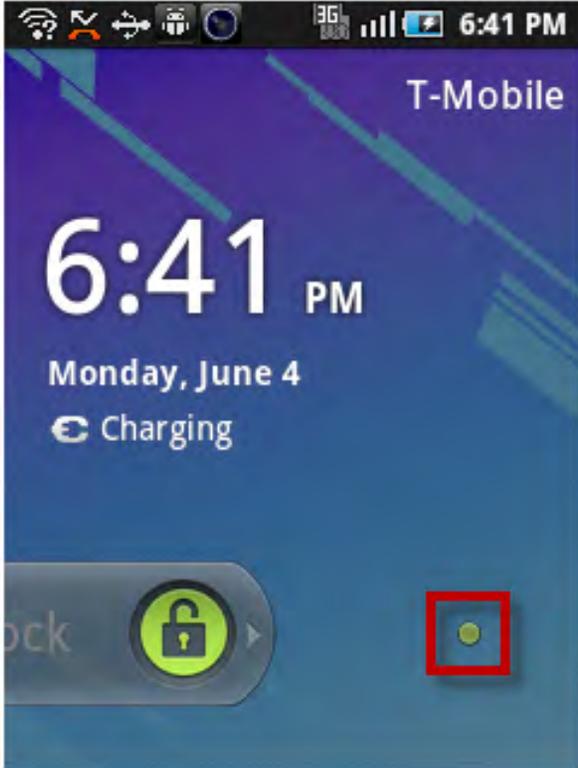
Claim 8	Infringement by the Samsung Dart
	<p data-bbox="678 250 1906 354">Moreover, when the Samsung Dart detects user contact with the green unlock image, it displays a small green circle in the predefined unlock region on the right side of the display, providing the user with an additional visual cue regarding the direction of movement.</p>  <p data-bbox="722 1203 1871 1271">(Screenshot of the Samsung Dart as it is detecting contact with the unlock image, displaying a second visual cue regarding direction of movement (highlighted in red))</p>

EXHIBIT F5

EXHIBIT II 4G

INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,046,721

INFRINGEMENT OF U.S. PATENT NO. 8,046,721 BY THE SAMSUNG EXHIBIT II 4G (SGH-T679)

Claim 7 ¹	Infringement by the Samsung Exhibit II 4G
<p>7. A portable electronic device, comprising:²</p>	<p>To the extent that the preamble of claim 7 may be construed to be limiting, the Samsung Exhibit II 4G is a portable electronic device.</p> <p>Specifically, the Samsung Exhibit II 4G is an Android smartphone with a 3.7” 16M TFT (480x800 pixel) touch screen display. (See Samsung, Samsung Exhibit II 4G Specifications, http://www.samsung.com/us/mobile/cell-phones/SGH-T679DBBTMB-specs). It weighs 4.0 oz. and measures 4.54” (L) x 2.35” (W) x 0.45” (D). (<i>Id.</i>). It has a 1.0 GHz MSM8255 Qualcomm processor. (<i>Id.</i>). Further, the Samsung Exhibit II 4G is “powered by a rechargeable Li-ion battery.” (Samsung Exhibit II 4G User Manual, at 10).</p> <div data-bbox="1012 675 1579 1192" data-label="Image"> </div> <p>(Samsung, Samsung Exhibit II 4G Gallery, http://www.samsung.com/us/mobile/cell-phones/SGH-T679DBBTMB-gallery).</p>

¹ Pursuant to Apple Inc’s List of Accused Products and Asserted Patent Claims Pursuant To Court Order of March 8, 2013, *see* D.I. 394 & 467, Apple is only asserting claim 8 of U.S. Patent No. 8,046,721. Because claim 8 is a dependent claim of claim 7, the infringement chart for claim 7 is included for reference.

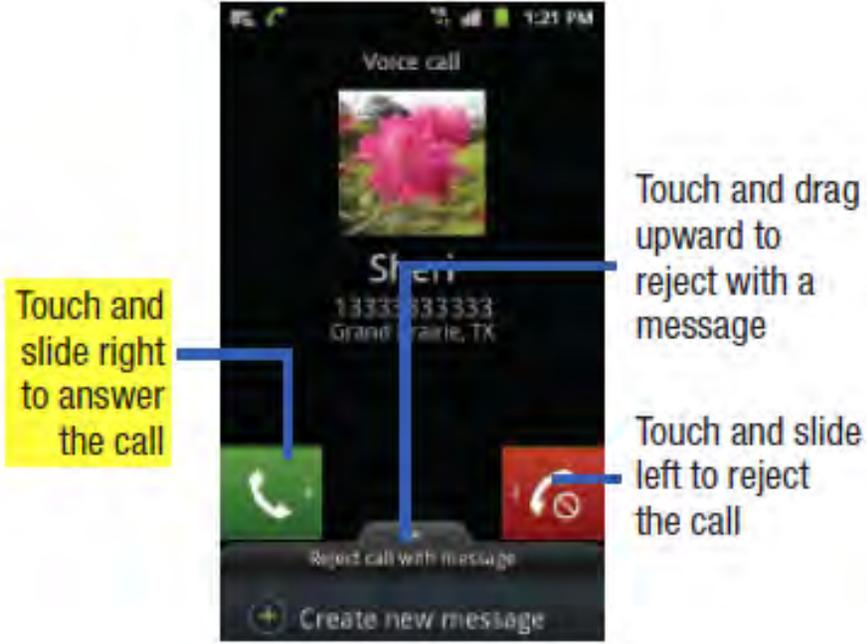
² Apple’s inclusion of citations related to any claim preamble in this infringement claim chart should not be interpreted as an admission that the preamble is limiting. Apple reserves the right to take the position that the claim preamble is limiting or not limiting on a claim-by-claim basis.

Claim 7 ¹	Infringement by the Samsung Exhibit II 4G
<p>a touch-sensitive display;</p>	<p>Additionally, according to the Samsung Exhibit II 4G’s User Manual, it has a touch screen that allows the user to “navigate the features of [her] phone and enter characters.” (Exhibit II User Manual, at 28). A user interacts with the Samsung Exhibit II’s applications by, for example, tapping items on the touchscreen to select or launch them, touching and holding screen items to activate them, or swiping/sliding, meaning “quickly drag[ging] your finger vertically or horizontally across the screen.” (See Exhibit II User Manual, at 28-29).</p> <div style="text-align: center;">  </div> <p>(Exhibit II 4G User Manual, at 28).</p> <p>The ’721 specification makes clear that a touch-sensitive display is the same as a touchscreen display. (See ’721 patent 1:25-26 (“Touch-sensitive displays (also known as ‘touch screens’ or ‘touchscreens’) are well known in the art.”)).</p>

Claim 7 ¹	Infringement by the Samsung Exhibit II 4G						
memory;	<p>The Samsung Exhibit II 4G comprises memory. Specifically, the Samsung Exhibit II 4G has 512MB of random access memory and 4GB of ROM and supports an external microSD card. (Samsung, Exhibit II 4G Android Smartphone Specifications, http://www.samsung.com/us/mobile/cell-phones/SGH-T679DBBTMB-specs).</p> <table border="1" data-bbox="688 418 1354 662"> <thead> <tr> <th colspan="2" data-bbox="688 418 1354 477">Memory</th> </tr> </thead> <tbody> <tr> <td data-bbox="688 477 1020 537">Internal Memory</td> <td data-bbox="1020 477 1354 537">512MB RAM; 4GB ROM</td> </tr> <tr> <td data-bbox="688 537 1020 662">External Memory/microSD™ Capacity</td> <td data-bbox="1020 537 1354 662">microSD™</td> </tr> </tbody> </table> <p>(<i>Id.</i>).</p>	Memory		Internal Memory	512MB RAM; 4GB ROM	External Memory/microSD™ Capacity	microSD™
Memory							
Internal Memory	512MB RAM; 4GB ROM						
External Memory/microSD™ Capacity	microSD™						
one or more processors;	<p>The Samsung Exhibit II 4G comprises one or more processors. Specifically, the Samsung Exhibit II 4G has a 1.0 GHz MSM8255 Qualcomm processor. (<i>Id.</i>).</p> <table border="1" data-bbox="688 824 1430 976"> <thead> <tr> <th colspan="2" data-bbox="688 824 1430 883">CPU / Processor</th> </tr> </thead> <tbody> <tr> <td data-bbox="688 883 1020 976">Processor Speed, Type</td> <td data-bbox="1020 883 1430 976">1GHz, MSM8255, Qualcomm</td> </tr> </tbody> </table> <p>(Samsung, Samsung Exhibit II 4G Android Smartphone Specifications, http://www.samsung.com/us/mobile/cell-phones/SGH-T679DBBTMB-specs).</p>	CPU / Processor		Processor Speed, Type	1GHz, MSM8255, Qualcomm		
CPU / Processor							
Processor Speed, Type	1GHz, MSM8255, Qualcomm						

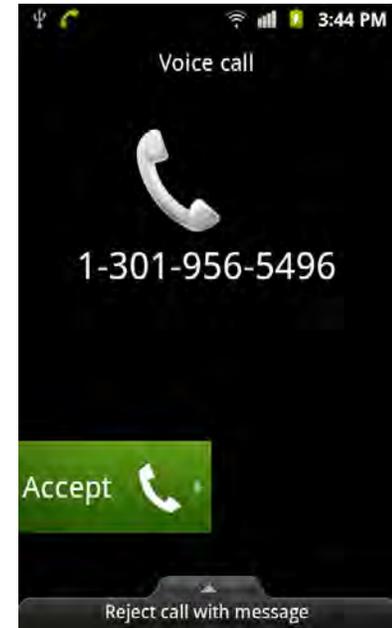
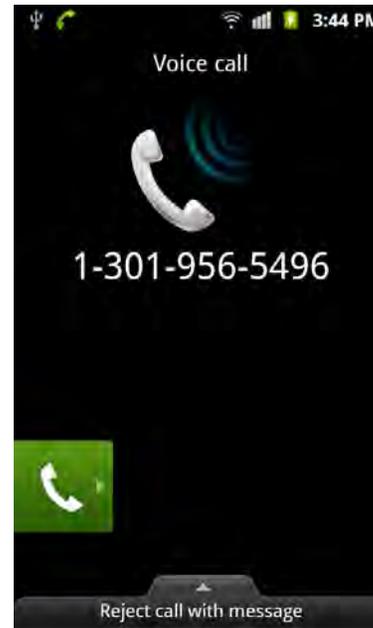
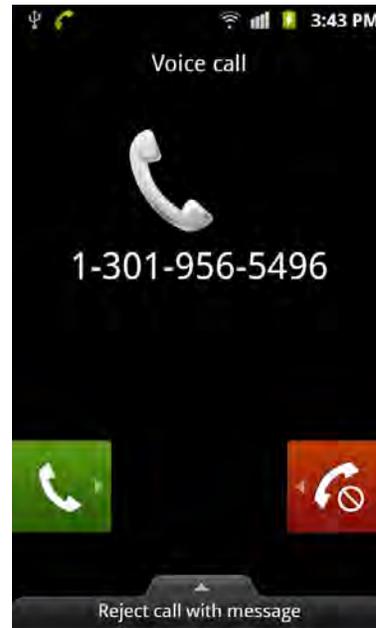
Claim 7 ¹	Infringement by the Samsung Exhibit II 4G
<p>one or more modules stored in the memory and configured for execution by the one or more processors, the one or more modules including instructions:</p>	<p>The Samsung Exhibit II 4G comprises one or more modules stored in the memory and configured for execution by the one or more processors, the one or more modules including instructions.</p> <p>The Samsung Exhibit II 4G contains, among other modules, a contact/motion module in its memory that is configured for execution by the Samsung Exhibit II 4G's processor. This module allows the Samsung Exhibit II 4G to detect contact with the touchscreen. The Samsung Exhibit II 4G User Manual discloses some of those contacts that the contact/motion module detects, as shown below.</p> <ul style="list-style-type: none"> • Tap: Use a brief touch to select items on the display or to enter text on the virtual QWERTY keyboard. For example: touch an Application icon to open the application. A light touch works best. • Touch and hold: Touch and hold an icon or key to open the available options, or to access a pop-up menu. For example: press and hold from the Home screen to access a menu of customization options. • Flick: Move your finger in lighter, quicker strokes than swiping. This finger gesture is always used in a vertical motion, such as when flicking through contacts or a message list. • Swipe or slide: Quickly drag your finger vertically or horizontally across the screen. This allows you to move the area of focus or to scroll through a list. For example: slide your finger left or right on the Home screen to scroll among the seven panels. • Drag: Press and hold your finger with some pressure before you start to move it. Do not release your finger until you have reached the target position. <p>(Exhibit II 4G User Manual, at 29).</p>

Claim 7'	Infringement by the Samsung Exhibit II 4G
<p>to detect a contact with the touch-sensitive display at a first predefined location corresponding to the unlock image;</p>	<p>The Samsung Exhibit II 4G's one or more modules include instructions to detect a contact with the touch-sensitive display at a first predefined location corresponding to the unlock image.</p> <p>Specifically, when the Samsung Exhibit II 4G receives a call, it displays the caller's phone number and an unlock image on the incoming call screen. (<i>See</i> Samsung Exhibit II 4G User Manual, at 50-51). The unlock image, which is a green icon containing the representation of a phone, appears at a predefined location at the left side of the Samsung Exhibit II 4G's touchscreen, as shown below. (<i>Id.</i>). The Samsung Exhibit II 4G detects contact with this unlock image as a user touches and slides the image to answer the call. (<i>Id.</i>).</p> <p>Answering a Call</p> <p>When somebody calls you, the phone rings and displays the incoming call image.</p> <p>The caller's phone number, picture, or name if stored in Contacts List, displays.</p> <p>► At the incoming call screen:</p> <ul style="list-style-type: none"> • Touch and slide  to the right to answer the call.

Claim 7 ¹	Infringement by the Samsung Exhibit II 4G
	 <p>The image shows an incoming call screen on a Samsung Exhibit II 4G. At the top, it says "Voice call" and shows a photo of pink flowers. Below the photo, the name "Sheri" and phone number "1333333333" are visible, along with the location "Grand Prairie, TX". At the bottom, there are three main options: a green "Answer" button with a white telephone handset icon, a red "Reject" button with a white telephone handset icon and a red prohibition sign, and a grey "Reject call with message" button. Below these is a "Create new message" button with a plus sign. A yellow box on the left contains the text "Touch and slide right to answer the call" with a blue line pointing to the green "Answer" button. On the right, there are two text annotations: "Touch and drag upward to reject with a message" with a blue line pointing to the "Reject call with message" button, and "Touch and slide left to reject the call" with a blue line pointing to the red "Reject" button.</p> <p>(Representation from Samsung Exhibit II 4G User Manual showing unlock image on the incoming call screen) (<i>Id.</i>)</p>

Claim 7¹

Infringement by the Samsung Exhibit II 4G

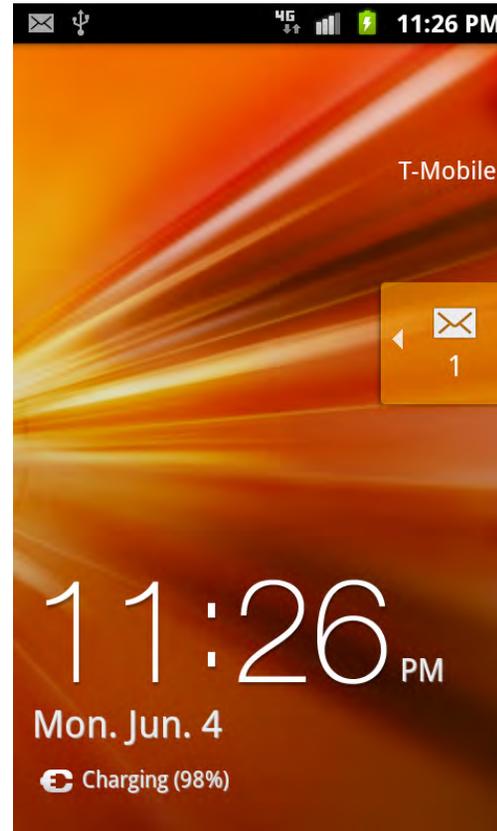


(Screenshots showing the green unlock image on the incoming call screen and showing the Exhibit II detecting contact with the green unlock image as user touches the screen and slides)

Claim 7¹

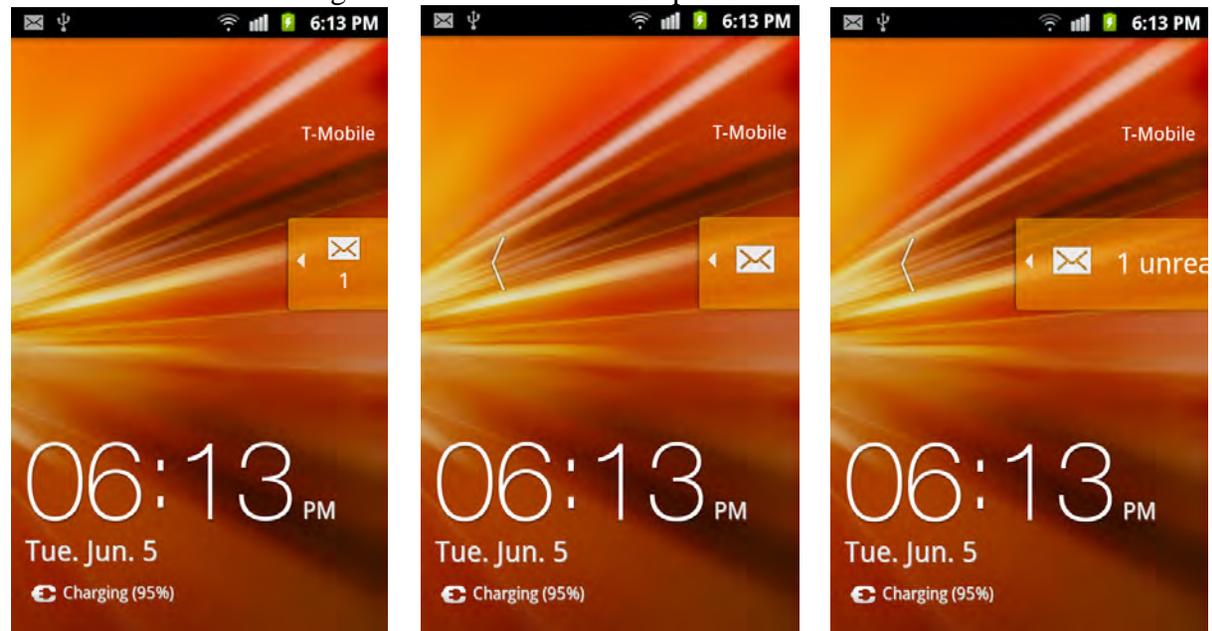
Infringement by the Samsung Exhibit II 4G

As a second example, when the Samsung Exhibit II 4G receives a text message while in the locked state, it displays a messaging unlock image on the locked home screen, as shown in the screenshot below.



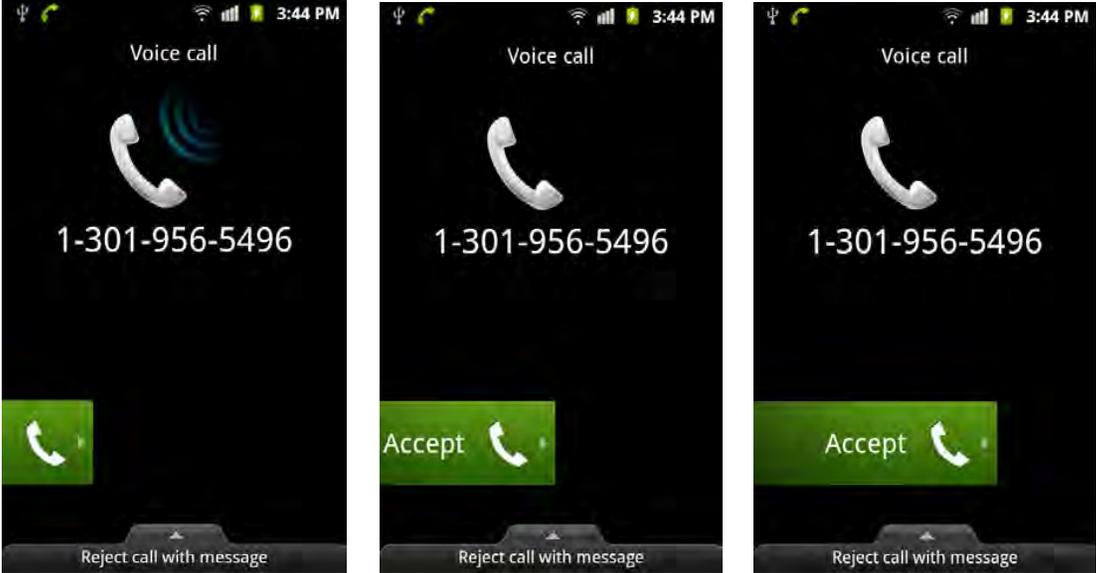
Claim 7¹**Infringement by the Samsung Exhibit II 4G**

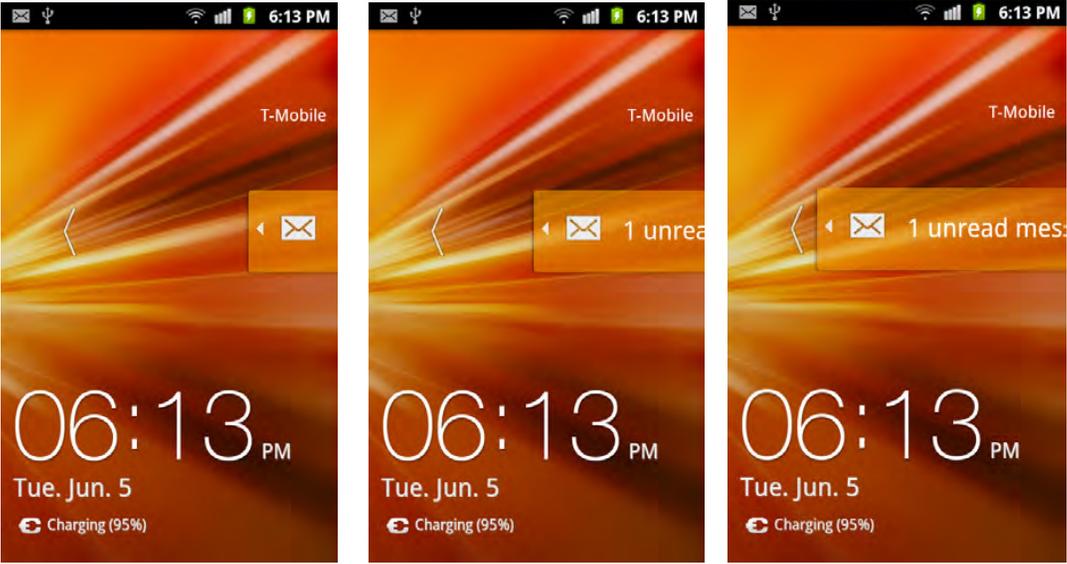
The unlock image, which is an orange icon containing the representation of a text message, appears at a predefined location on the right side of the Samsung Exhibit II 4G's touchscreen, as shown above. The Samsung Exhibit II 4G detects contact with this unlock image as a user touches and slides the image to the left to unlock the phone.



(Screenshots showing the Exhibit II 4G detecting contact with the messaging unlock image (middle) and sliding the image to the left as the user slides her finger across the screen)

Claim 7 ¹	Infringement by the Samsung Exhibit II 4G
	<p>As a third example, when the user misses an incoming call, the Exhibit II 4G displays an unlock image on the locked home screen. The unlock image, which is a red icon containing the representation of a phone, appears at a predefined location at the left side of the Samsung Exhibit II 4G's touchscreen, as shown in the image from the user manual below. The Samsung Exhibit II 4G detects contact with this unlock image as a user touches and then slide the image to the right to unlock the phone and view missed call information.</p> <p>Viewing Missed Calls from Lock Screen</p> <p>When you are unable to answer a call for any reason and your screen is locked, the number of missed calls are displayed on the Lock screen immediately after a call is missed.</p> <p>To view a missed call immediately:</p> <ol style="list-style-type: none"> 1. Press  to reactive the screen. 2. Touch and drag the button (with the number of missed calls on it) to the right. The Logs tab is then displayed. <p>(Samsung Exhibit II 4G User Manual, at 62).</p> <p>When the Exhibit II 4G detects contact with the red missed call unlock image, a large white arrow like that show in the screenshot of the messaging unlock image appears in a predefined location at the right side of the touchscreen display.</p> 

Claim 7 ¹	Infringement by the Samsung Exhibit II 4G
<p>to continuously move the unlock image on the touch-sensitive display in accordance with movement of the detected contact while continuous contact with the touch-sensitive display is maintained, wherein the unlock image is a graphical, interactive user-interface object with which a user interacts in order to unlock the device; and</p>	<p>The Samsung Exhibit II 4G's one or more modules include instructions to continuously move the unlock image on the touch-sensitive display in accordance with movement of the detected contact while continuous contact with the touch-sensitive display is maintained, wherein the unlock image is a graphical, interactive user-interface object with which a user interacts in order to unlock the device.</p> <p>Specifically, as the user touches and slides the unlock image on the incoming call screen, the Samsung Exhibit II 4G includes instructions to continuously move the unlock image from left to right on the touchscreen display provided the user maintains contact with the screen. (<i>See Samsung Exhibit II 4G User Manual, at 50-51</i>).</p>  <p>(Screenshots of the Samsung Exhibit II 4G showing the screen as a user touches and slides the unlock icon from left to right to unlock the phone) (<i>Id.</i>)</p>

Claim 7 ¹	Infringement by the Samsung Exhibit II 4G
	<p>Specifically, at the incoming call screen, the Samsung Exhibit II 4G's unlock image is a graphical, interactive user-interface object, namely a green icon containing a representation of a phone, that the user touches and then slides across the touchscreen to unlock the phone. (See Samsung Exhibit II 4G User Manual, at 50-51).</p> <p style="text-align: center;">▶ At the incoming call screen:</p> <ul style="list-style-type: none"> • Touch and slide  to the right to answer the call. <p>(<i>Id.</i>).</p> <p>As a second example, as the user touches and slides the messaging unlock image on the locked home screen, the Samsung Exhibit II 4G includes instructions to continuously move the messaging unlock image from right to left on the touchscreen display provided the user maintains contact with the screen.</p> <div style="text-align: center;">  </div> <p>(Screenshots of the Exhibit II 4G showing continuous movement of the unlock image from right to left as the user slides her finger across the screen towards the unlock region)</p>

Claim 7 ¹	Infringement by the Samsung Exhibit II 4G
	<p>As a third example, as the user touches and then slides the missed call unlock image on the locked home screen, the T-Mobile Samsung Galaxy SII continuously moves the unlock image from the left to the right while the user maintains contact with the screen. Further, the unlock image, as shown below, is a graphical, interactive user-interface object, namely a red icon containing a representation of a phone, that the user touches and then slides across the touchscreen to unlock the phone.</p> <p>Viewing Missed Calls from Lock Screen</p> <p>When you are unable to answer a call for any reason and your screen is locked, the number of missed calls are displayed on the Lock screen immediately after a call is missed.</p> <p>To view a missed call immediately:</p> <ol style="list-style-type: none"> 1. Press  to reactive the screen. 2. Touch and drag the button (with the number of missed calls on it) to the right. The Logs tab is then displayed.  <p>(Samsung Exhibit II 4G User Manual, at 62).</p>

Claim 7 ¹	Infringement by the Samsung Exhibit II 4G
<p>to unlock the hand-held electronic device if the unlock image is moved from the first predefined location on the touch screen to a predefined unlock region on the touch-sensitive display.</p>	<p>The Samsung Exhibit II 4G's one or more modules include instructions to unlock the hand-held electronic device if the unlock image is moved from the first predefined location on the touch screen to a predefined unlock region on the touch-sensitive display.</p> <p>For example, the Samsung Exhibit II 4G includes instructions to unlock the phone to permit the user to answer an incoming phone call. When the user slides the green unlock image from its original location at the left side of the touch-sensitive display to a predefined unlock region on the right side of the touch-sensitive display, the phone unlocks to facilitate the call. (See Samsung Exhibit II 4G User Manual, at 50-51).</p> <div data-bbox="709 597 1879 1218" data-label="Image"> <p>The image contains three sequential screenshots of a mobile phone's call interface. The first screenshot shows an incoming 'Voice call' from '1-301-956-5496' with a green 'Accept' button on the left. The second screenshot shows the same call with the green 'Accept' button having moved horizontally towards the right. The third screenshot shows the call answered, displaying a contact profile picture, the number '1-301-956-5496', a 'Hold' button, a timer at '00:01', and a grid of call control buttons including 'Add call', 'Keypad', 'End call', 'Speaker', 'Mute', and 'Headset'.</p> </div> <p>(Screenshots of the Exhibit II 4G as a user slides the green unlock image to the right until it reaches the unlock region on the right side of the phone and unlocks)</p>

Claim 7¹

Infringement by the Samsung Exhibit II 4G

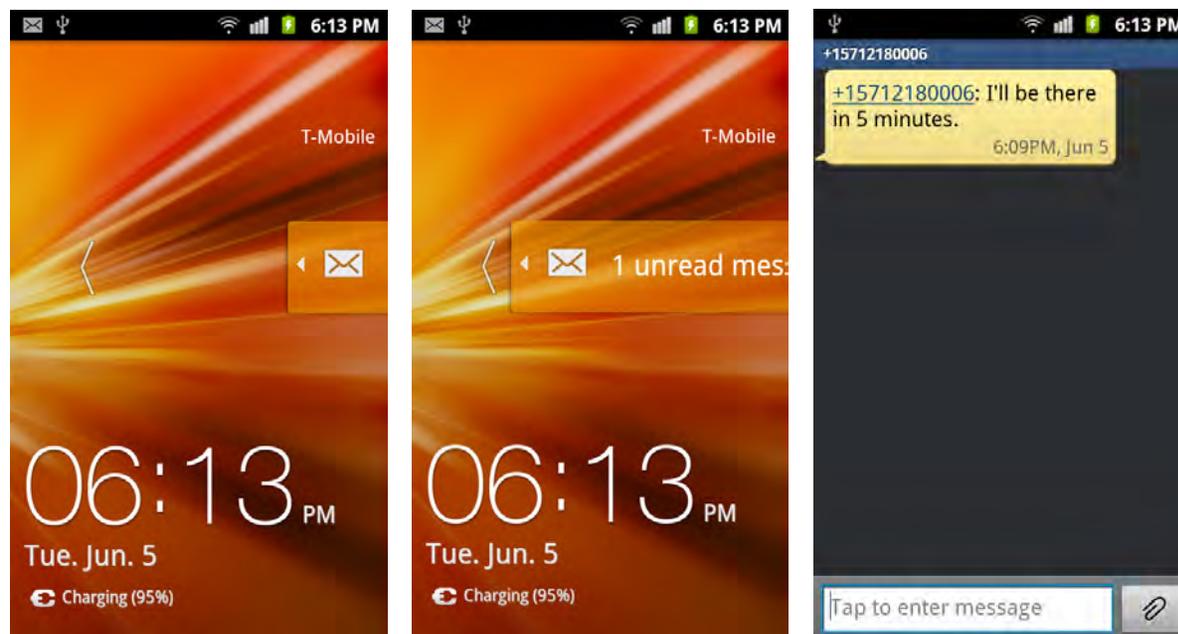
After the user answers and then terminates the call, all the applications on the phone are unlocked for the user to use. Thus, the phone is in a user-interface unlock state.



(Screenshot of the unlocked Exhibit II 4G after a user has answered and terminated the phone call)

Claim 7¹**Infringement by the Samsung Exhibit II 4G**

As a second example, the Samsung Exhibit II 4G includes instructions to unlock the phone when the user slides the messaging unlock image across the touchscreen. Specifically, when the user slides the orange messaging unlock image from its original location at the right side of the touch-sensitive display to a predefined unlock region on the left side of the touch-sensitive display, the phone unlocks to allow the user to read the new text message.



(Screenshots showing the movement of the messaging unlock icon from the first predefined region to the second predefined unlock region, resulting in unlocking the phone)

Claim 7¹**Infringement by the Samsung Exhibit II 4G**

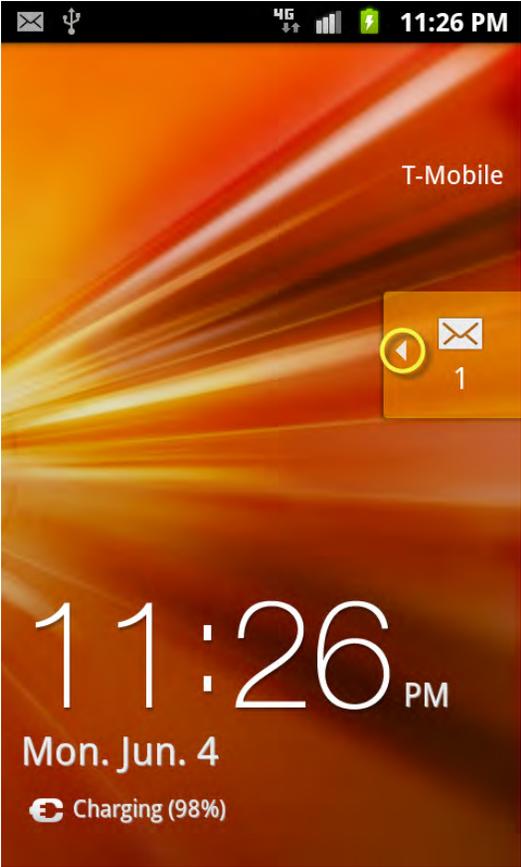
After the user unlocks the phone by sliding the orange messaging unlock image to the predefined unlock region, all applications on the phone are available to the user. Thus, the phone is in a user-interface unlock state.



(Screenshot of the unlocked Exhibit II 4G after the user has exited the Messaging application)

Claim 7 ¹	Infringement by the Samsung Exhibit II 4G
	<p>As a third example, the Exhibit II 4G unlocks to permit the user to view missed call information when the user touches and then slides the red missed call unlock image from its original, predefined location at the left side of the touch-sensitive display to a predefined unlock region on the right side of the touch-sensitive display. The predefined unlock region is denoted by a large white arrow on the right side of the touchscreen display.</p> <p style="text-align: center;">Viewing Missed Calls from Lock Screen</p> <p>When you are unable to answer a call for any reason and your screen is locked, the number of missed calls are displayed on the Lock screen immediately after a call is missed.</p> <p>To view a missed call immediately:</p> <ol style="list-style-type: none"> 1. Press  to reactive the screen. 2. Touch and drag the button (with the number of missed calls on it) to the right. The Logs tab is then displayed.  <p>(Samsung Exhibit II 4G User Manual, at 62).</p> <p>After the user unlocks the phone by sliding the red missed call unlock image to the predefined unlock region, all applications on the phone are available to the user. Thus, the phone is in a user-interface unlock state.</p>

Claim 8	Infringement by the Samsung Exhibit II 4G
<p>8. The device of claim 7, further comprising instructions to display visual cues to communicate a direction of movement.</p>	<p>The Samsung Exhibit II 4G's one or more modules further comprise instructions to display visual cues to communicate a direction of movement. In particular, the Samsung Exhibit II 4G includes instructions to display an arrow on the phone's green unlock image on the incoming call screen. (See Exhibit II 4G User Manual, at 50-51). The arrow is a visual cue that directs the user to slide the image to the right to unlock the phone and answer an incoming call. (<i>Id.</i>). The presence of the arrow on the unlock image is shown below.</p> <p>► At the incoming call screen:</p> <ul style="list-style-type: none"> • Touch and slide  to the right to answer the call.  <p>(Screenshot of the Samsung Exhibit II 4G with the arrow circled in yellow)</p>

Claim 8	Infringement by the Samsung Exhibit II 4G
	<p data-bbox="680 237 1890 375">As a second example, the Samsung Exhibit II 4G includes instructions to display an arrow on the phone's orange messaging unlock image on the locked home screen. The arrow is a visual cue that directs the user to slide the image to the left to unlock the phone and read the new text message. The presence of the arrow on the messaging unlock image is shown below.</p> <div data-bbox="1035 391 1556 1258">A screenshot of the Samsung Exhibit II 4G home screen. The background is orange with light streaks. At the top, the status bar shows icons for messages, USB, 4G, signal strength, battery, and the time 11:26 PM. Below the status bar, the carrier name "T-Mobile" is visible. In the center-right, there is a messaging unlock image consisting of a white envelope icon and the number "1". A yellow circle highlights a small white arrow pointing to the left, which is positioned to the left of the envelope icon. At the bottom of the screen, the time "11:26 PM" is displayed in large white digits, followed by the date "Mon. Jun. 4" and a battery icon with the text "Charging (98%)".</div> <p data-bbox="701 1295 1887 1365">(Image from the Samsung Exhibit II 4G with the arrow on the messaging unlock image circled in yellow)</p>

Claim 8	Infringement by the Samsung Exhibit II 4G
	<p data-bbox="678 250 1839 354">Moreover, after the Samsung Exhibit II 4G detects user contact with the messaging unlock image, it displays a white arrow on the left side of the screen, further guiding the user's movement.</p>  <p data-bbox="705 1219 1885 1323">(Screenshot of the Samsung Exhibit II 4G after a user contact with the unlock screen is detected, displaying a second arrow to guide the user's movement (arrow circled in yellow))</p>

Claim 8	Infringement by the Samsung Exhibit II 4G
	<p data-bbox="680 250 1906 354">As a third example, the Samsung Exhibit II 4G displays an arrow on the phone's red missed call unlock image on the locked home screen, as shown below. The arrow is a visual cue that directs the user to slide the image to the right to unlock the phone and view the missed call log.</p> <div data-bbox="1094 375 1499 1049" data-label="Image"> </div> <p data-bbox="680 1068 1860 1154">(Image of Exhibit II 4G showing presence of arrow (circled in yellow) on unlock image) (Exhibit II 4G User Manual, at 62).</p> <p data-bbox="680 1192 1906 1300">Moreover, when the Exhibit II 4G detects user contact with the red unlock image, it displays a second arrow in the predefined unlock region on the right side of the display, providing the user with an additional visual cue regarding the direction of movement.</p>

EXHIBIT F6

GALAXY NEXUS

INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,046,721

INFRINGEMENT OF U.S. PATENT NO. 8,046,721¹ BY THE SAMSUNG GALAXY NEXUS²

'721 Claim 7 ³	Infringement by the Samsung Galaxy Nexus
<p>7. A portable electronic device, comprising:⁴</p>	<p>To the extent that the preamble of claim 7 may be construed to be limiting, the Samsung Galaxy Nexus is a portable electronic device. Specifically, the Samsung Galaxy Nexus is an Android smartphone with a 4.65'' HD Super AMOLED contoured touch screen display. (<i>See</i> Samsung, Galaxy Nexus Specifications, http://www.samsung.com/us/mobile/cell-phones/SCH-I515MSAVZW-specs). It weighs 5.1 oz. and measures 5.33'' (L) x 2.67'' (W) x 0.37'' (D). (<i>Id.</i>). Further, the Samsung Galaxy Nexus is equipped with a Lithium ion (Li-ion) battery. (<i>Id.</i>).</p> <div data-bbox="1110 521 1472 907" data-label="Image"> </div> <p>(Google, Galaxy Nexus Gallery, http://www.google.com/nexus/#/gallery).</p>

¹ Apple notes that Samsung appears in some instances to be pursuing broad constructions of various limitations of the asserted claims of the '721 patent. This claim chart takes into account Samsung's broad construction of the claim limitations. Any assertion that a particular limitation is met may be based on Samsung's apparent constructions and is not intended to be, and is not, an admission that such constructions are supportable or proper. Apple reserves the right to argue that said feature or functionality does not practice any limitation of any of the asserted claims.

² Citations to specifications in these claim charts are generally to the Verizon Galaxy Nexus specifications on Samsung's website. However, the functionality accused in these charts does not vary across carriers. The Samsung Galaxy Nexus is currently available from Verizon, Sprint, and Google. The specifications for the Galaxy Nexus available from Sprint are available at <http://www.samsung.com/us/mobile/cell-phones/SPH-L700ZKASPR-specs>. The specifications for the Galaxy Nexus available from Google can be found at https://play.google.com/store/devices/details/Galaxy_Nexus_HSPA?id=galaxy_nexus_hspa&hl=en.

³ Pursuant to Apple Inc's List of Accused Products and Asserted Patent Claims Pursuant To Court Order of March 8, 2013, *see* D.I. 394 & 467, Apple is only asserting claim 8 of U.S. Patent No. 8,046,721. Because claim 8 is a dependent claim of claim 7, the infringement chart for claim 7 is included for reference.

⁴ Apple's inclusion of citations related to any claim preamble in this infringement claim chart should not be interpreted as an admission that the preamble is limiting. Apple reserves the right to take the position that the claim preamble is limiting or not limiting on a claim-by-claim basis.

'721 Claim 7 ³	Infringement by the Samsung Galaxy Nexus
a touch-sensitive display;	<p>The Samsung Galaxy Nexus comprises a touch-sensitive display. For example, the Samsung Galaxy Nexus includes a touchscreen, which allows the user to manipulate, <i>inter alia</i>, applications and menus by touching the screen with her finger or a stylus. (See Samsung, Galaxy Nexus Android Smartphone Specs, http://www.samsung.com/us/mobile/cell-phones/SCH-I515MSAVZW-specs). A user interacts with the Samsung Galaxy Nexus's applications by, for example, tapping items on the touchscreen to select or launch them, touching and holding screen items to activate them, or sliding her finger vertically or horizontally across the screen. (Samsung Galaxy Nexus User Guide, at 9).</p> <p>According to the Galaxy Nexus User's Guide, the Samsung Galaxy Nexus detects movements on the touch screen display and executes a variety of actions depending on the nature of the touch. For example, common gestures include:</p> <ul style="list-style-type: none"> ▶ Touch & hold: Touch & hold an item on the screen by touching it and not lifting your finger until an action occurs. ▶ Drag: Touch & hold an item for a moment and then, without lifting your finger, move your finger on the screen until you reach the target position. For example, you can drag to reposition shortcuts on the Home screen. ▶ Swipe or slide: Quickly move your finger across the surface of the screen, without pausing when you first touch (so you don't drag something instead). For example, you can slide a Home screen left or right to view the other Home screens. ▶ Double-tap: Tap quickly twice on a webpage, map, or other screen to zoom. For example, double-tap a webpage in Browser to zoom in, and double-tap again to zoom out. ▶ Pinch: In some apps (such as Maps, Browser, and Gallery), you can zoom in and out by placing two fingers on the screen at once and pinching them together (to zoom out) or spreading them apart (to zoom in). <p>(Samsung Galaxy Nexus User Guide, at 9).</p> <p>The '721 specification makes clear that a touch-sensitive display is the same as a touchscreen display. (See '721 patent 1:25-26 ("Touch-sensitive displays (also known as 'touch screens' or 'touchscreens') are well known in the art.")).</p>

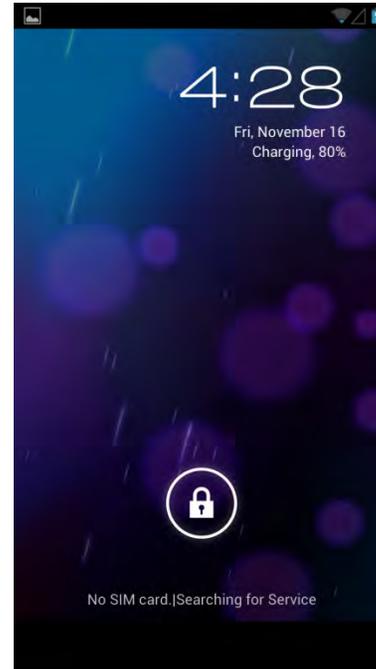
'721 Claim 7 ³	Infringement by the Samsung Galaxy Nexus				
<p>memory;</p>	<p>The Samsung Galaxy Nexus comprises memory.</p> <p>Specifically, the Samsung Galaxy Nexus has 32GB of internal memory. (Samsung, Galaxy Nexus Specifications, http://www.samsung.com/us/mobile/cell-phones/SCH-I515MSAVZW-specs).</p> <table border="1" data-bbox="695 461 1266 581"> <thead> <tr> <th colspan="2" data-bbox="695 461 1266 521">Memory</th> </tr> </thead> <tbody> <tr> <td data-bbox="695 521 1022 581">Internal Memory</td> <td data-bbox="1022 521 1266 581">32GB</td> </tr> </tbody> </table> <p>(<i>Id.</i>).</p>	Memory		Internal Memory	32GB
Memory					
Internal Memory	32GB				
<p>one or more processors;</p>	<p>The Samsung Galaxy Nexus comprises one or more processors.</p> <p>Specifically, the Samsung Galaxy Nexus has a 1.2 GHz dual-core processor. (<i>Id.</i>).</p> <table border="1" data-bbox="695 847 1409 1000"> <thead> <tr> <th colspan="2" data-bbox="695 847 1409 909">CPU / Processor</th> </tr> </thead> <tbody> <tr> <td data-bbox="695 909 1022 1000">Processor Speed, Type</td> <td data-bbox="1022 909 1409 1000">1.2GHz Dual-Core Processor</td> </tr> </tbody> </table> <p>(Samsung, Galaxy Nexus Specifications, http://www.samsung.com/us/mobile/cell-phones/SCH-I515MSAVZW-specs).</p>	CPU / Processor		Processor Speed, Type	1.2GHz Dual-Core Processor
CPU / Processor					
Processor Speed, Type	1.2GHz Dual-Core Processor				

'721 Claim 7 ³	Infringement by the Samsung Galaxy Nexus
<p>one or more modules stored in the memory and configured for execution by the one or more processors, the one or more modules including instructions:</p>	<p>The Samsung Galaxy Nexus comprises one or more modules stored in the memory and configured for execution by the one or more processors, the one or more modules including instructions.</p> <p>The Samsung Galaxy Nexus contains, among other modules, a contact/motion module in its memory that is configured for execution by the Samsung Galaxy Nexus's processor. This module allows the Samsung Galaxy Nexus to detect contact with the touchscreen. The Samsung Galaxy Nexus User Guide discloses some of those contacts that the contact/motion module detects, as shown below.</p> <ul style="list-style-type: none"> ▶ Touch & hold: Touch & hold an item on the screen by touching it and not lifting your finger until an action occurs. ▶ Drag: Touch & hold an item for a moment and then, without lifting your finger, move your finger on the screen until you reach the target position. For example, you can drag to reposition shortcuts on the Home screen. ▶ Swipe or slide: Quickly move your finger across the surface of the screen, without pausing when you first touch (so you don't drag something instead). For example, you can slide a Home screen left or right to view the other Home screens. ▶ Double-tap: Tap quickly twice on a webpage, map, or other screen to zoom. For example, double-tap a webpage in Browser to zoom in, and double-tap again to zoom out. ▶ Pinch: In some apps (such as Maps, Browser, and Gallery), you can zoom in and out by placing two fingers on the screen at once and pinching them together (to zoom out) or spreading them apart (to zoom in). <p>(Samsung Galaxy Nexus User Guide, at 9).</p>

'721 Claim 7 ³	Infringement by the Samsung Galaxy Nexus
<p>to detect a contact with the touch-sensitive display at a first predefined location corresponding to the unlock image;</p>	<p>The Samsung Galaxy Nexus's one or more modules include instructions to detect a contact with the touch-sensitive display at a first predefined location corresponding to the unlock image.</p> <p>For example, when locked, the Galaxy Nexus's home screen contains an unlock image at a predefined location at the bottom center of the screen, as shown in the screenshot below. Prior to user contact with the screen, this unlock image is a white circle that surrounds the image of a locked padlock.</p> <div data-bbox="1108 521 1482 1182" data-label="Image"> </div> <p>(Screenshot of the locked home screen for the Ice Cream Sandwich version of the Samsung Galaxy Nexus (“ICS Samsung Galaxy Nexus”), displaying the unlock image at a predefined location at the bottom center of the touchscreen display)</p>

'721 Claim 7³

Infringement by the Samsung Galaxy Nexus

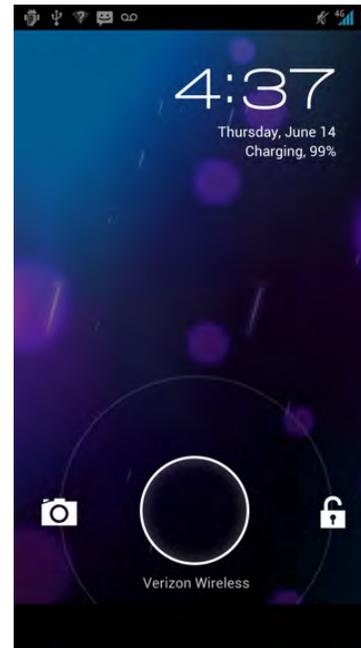


(Screenshot of the locked home screen for the Jelly Bean version of the Samsung Galaxy Nexus (“JB Samsung Galaxy Nexus”), displaying the unlock image at a predefined location at the bottom center of the touchscreen display)

The default setting for both the ICS and JB Samsung Galaxy Nexuses is set such that the Galaxy Nexus’s home screen, when locked, contains an unlock image at a predefined location in the bottom center of the screen (as shown above).

'721 Claim 7³**Infringement by the Samsung Galaxy Nexus**

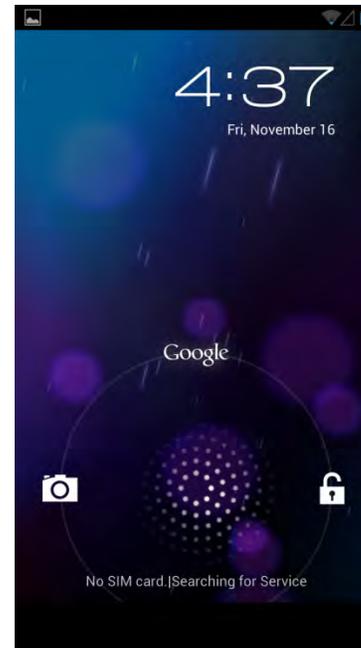
The ICS Samsung Galaxy Nexus detects contact with this unlock image as a user touches and then slides the image away from its original, predefined location to unlock the phone. As is shown below, when the ICS Galaxy Nexus detects contact with the unlock image, the image of an unlocked padlock appears on the right side of the touchscreen display. The unlocked padlock is associated with a large white circle that surrounds the unlock image on the phone's display, as shown below. This unlocked padlock corresponds to a predefined unlock region.



(Screenshot of the Samsung Galaxy Nexus detecting a contact with the unlock image on the locked home screen)

'721 Claim 7³**Infringement by the Samsung Galaxy Nexus**

Similarly, when the JB Samsung Galaxy Nexus detects contact with a user's finger within a predefined radius of this unlock image, the JB Galaxy Nexus animates the unlock image to spotlight the user's finger. This spotlighted unlock image displays underneath and within a radius surrounding the user's finger. This image consists of a grouping of white dots in black space, with its location corresponding to the location of the user's touch.

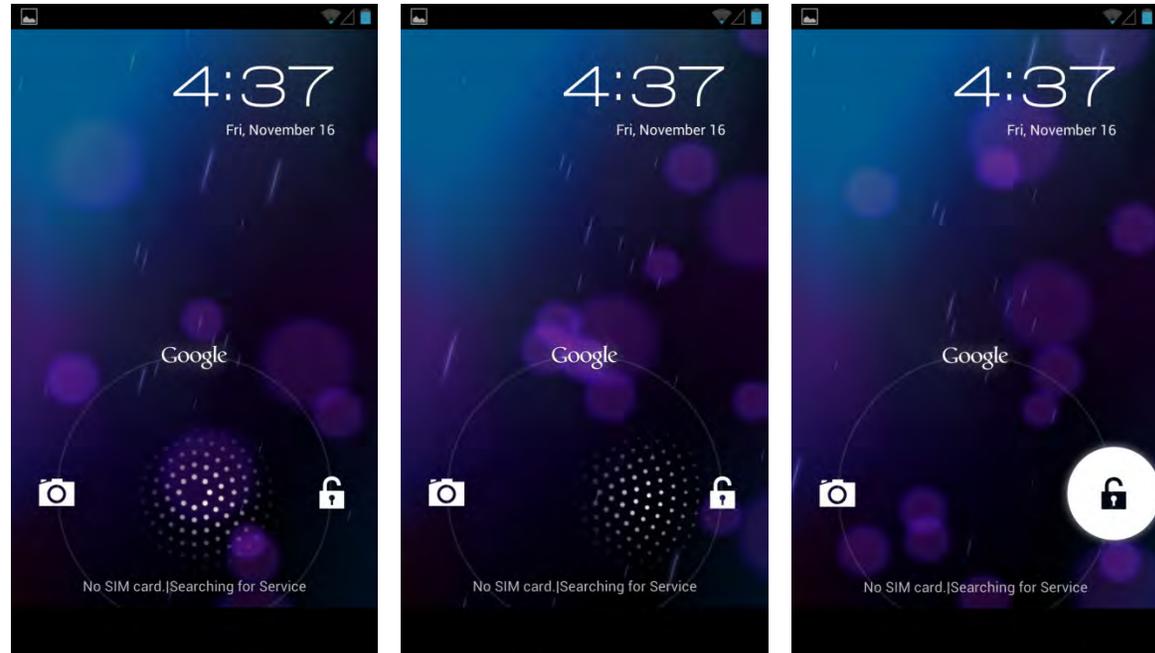


(Screenshot of the JB Samsung Galaxy Nexus detecting a contact with the unlock image on the locked home screen)

'721 Claim 7 ³	Infringement by the Samsung Galaxy Nexus
<p>to continuously move the unlock image on the touch-sensitive display in accordance with movement of the detected contact while continuous contact with the touch-sensitive display is maintained, wherein the unlock image is a graphical, interactive user-interface object with which a user interacts in order to unlock the device; and</p>	<p>The Samsung Galaxy Nexus's one or more modules include instructions to continuously move the unlock image on the touch-sensitive display in accordance with movement of the detected contact while continuous contact with the touch-sensitive display is maintained, wherein the unlock image is a graphical, interactive user-interface object with which a user interacts in order to unlock the device.</p> <p>For example, as the user touches and slides the unlock image toward the unlock region on the locked home screen, the ICS Samsung Galaxy Nexus continuously moves the unlock image from left to right while the user maintains contact with the screen, as shown below.</p> <div data-bbox="716 594 1871 1250" data-label="Image"> <p>The image consists of three vertical screenshots of a mobile phone's lock screen, arranged horizontally. Each screenshot shows the same lock screen with a blue and purple background, a digital clock displaying '4:37', the date 'Thursday, June 14', and 'Charging, 99%'. At the bottom, there are icons for a camera, a central circular unlock area, and a lock icon. In the first screenshot, the unlock image is a white circle on the left side of the central area. In the second screenshot, it has moved to the center. In the third screenshot, it has moved to the right side of the central area. The text 'Verizon Wireless' is visible at the bottom of each screen.</p> </div> <p>(Screenshots showing the ICS Samsung Galaxy Nexus continuously moving the unlock image as a user slides it to the right to unlock the phone)</p>

'721 Claim 7³**Infringement by the Samsung Galaxy Nexus**

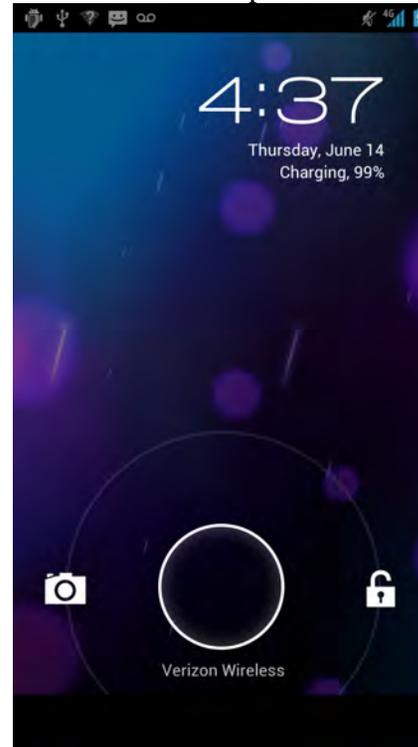
Similarly, in the JB Galaxy Nexus, when the user maintains contact with the locked home screen and moves their finger along the screen from the original, predefined location toward the unlocked padlock image, the spotlighted unlock image is continually moved away from its initial location toward the unlocked padlock image, in accordance with the movement of the user's finger, in order to unlock the device.



(Screenshots showing the JB Samsung Galaxy Nexus continuously moving the unlock image as a user slides it to the right to unlock the phone)

'721 Claim 7³**Infringement by the Samsung Galaxy Nexus**

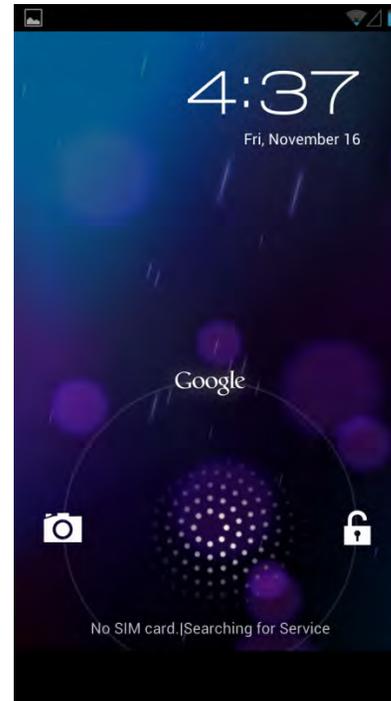
Moreover, the Samsung Galaxy Nexus's unlock image is a graphical, interactive user-interface object. In the ICS Galaxy Nexus, the graphical, interactive user-interface object consists of a white circle that, prior to user contact with the screen, surrounds the image of a locked padlock. The user may interact with this icon to unlock the phone.



(Screenshot showing the unlock image on the locked ICS Samsung Galaxy Nexus home screen)

'721 Claim 7³**Infringement by the Samsung Galaxy Nexus**

In the JB Galaxy Nexus, the graphical, interactive user-interface object consists of an animated grouping of white dots in black space displayed underneath and within a radius surrounding the user's finger. The user may interact with this unlock image to unlock the phone.



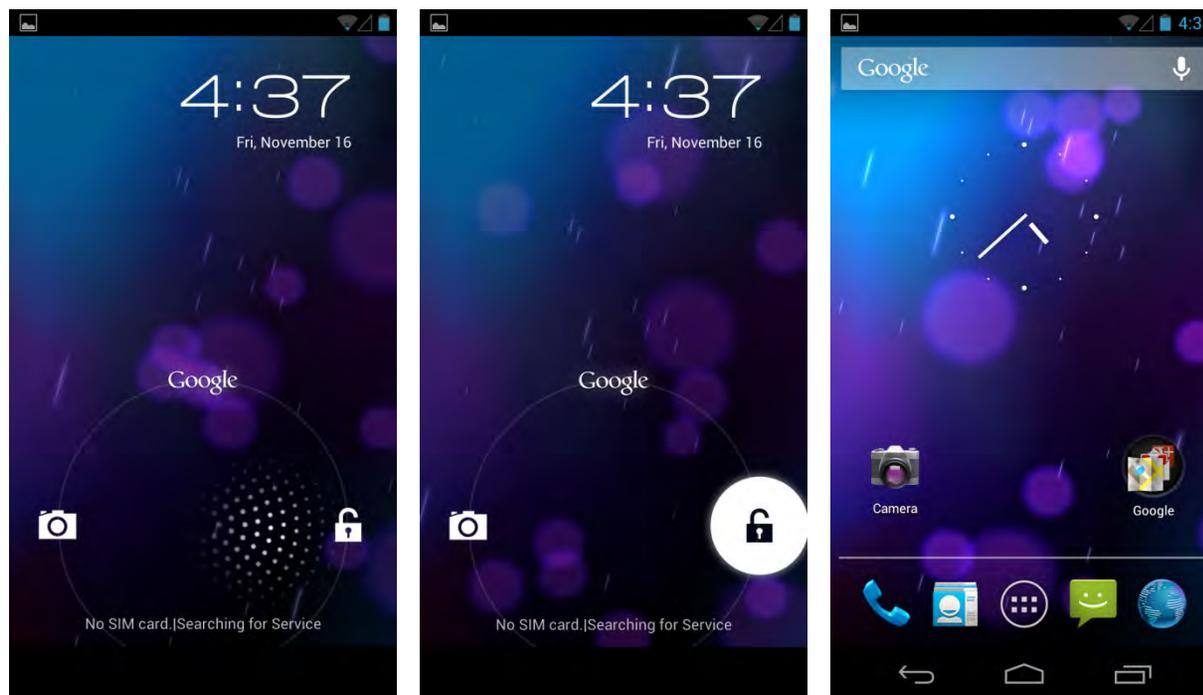
**(Screenshot showing the unlock image on the locked
JB Samsung Galaxy Nexus home screen)**

'721 Claim 7 ³	Infringement by the Samsung Galaxy Nexus
<p>to unlock the hand-held electronic device if the unlock image is moved from the first predefined location on the touch screen to a predefined unlock region on the touch-sensitive display.</p>	<p>The Samsung Galaxy Nexus's one or more modules include instructions to unlock the hand-held electronic device if the unlock image is moved from the first predefined location on the touch screen to a predefined unlock region on the touch-sensitive display.</p> <p>For example, the ICS Samsung Galaxy Nexus unlocks when the user slides the white unlock image from its original, predefined location at the bottom center of the touch screen to a predefined unlock region on the right side of the display. The predefined unlock region is denoted by the image of an unlocked padlock, as shown below.</p> <div data-bbox="688 558 1900 1247" style="text-align: center;"> </div> <p>(Screenshots of the ICS Samsung Galaxy Nexus showing the unlock image sliding to the right as a user unlocks the phone)</p>

'721 Claim 7³**Infringement by the Samsung Galaxy Nexus**

Similarly, when the JB Galaxy Nexus detects contact with the user's finger within a predefined radius of the circled padlock unlock image at the bottom center of the locked home screen, the image of an unlocked padlock appears on the bottom right side of the touchscreen display. A predefined distance from this unlocked padlock corresponds to a predefined unlock region.

When the user slides the unlock image from its original, predefined location at the bottom center of the touch screen to this predefined unlock region, for example, the device will highlight the unlocked padlock image and unlock, as shown below.



(Screenshots of the JB Samsung Galaxy Nexus showing the unlock image sliding to the right as a user unlocks the phone)

'721 Claim 8	Infringement by the Samsung Galaxy Nexus
<p>8. The device of claim 7, further comprising instructions to display visual cues to communicate a direction of movement.</p>	<p>The Samsung Galaxy Nexus's one or more modules further comprise instructions to display visual cues to communicate a direction of movement.</p> <p>For example, when the locked ICS Samsung Galaxy Nexus detects contact with the user's finger on the unlock image on the home screen, the image of an unlocked padlock appears on the right side of the screen. This image is a visual cue to the user that the unlock image should be moved to right to unlock the phone.</p> <div data-bbox="919 516 1661 1154" data-label="Image"> </div> <p>(Screenshots of the ICS Samsung Galaxy Nexus unlock image, displaying visual cues to direct the user's movement)</p>

'721 Claim 8	Infringement by the Samsung Galaxy Nexus
	<p>Moreover, when the unlock image first appears on the unlock screen of the locked ICS Samsung Galaxy Nexus, an animation of “chevrons” moving from the unlock image to the right of the screen plays, which is a visual cue communicating a direction of movement of the unlock image required to unlock the device. The chevrons are displayed in the screenshot above. This animation is also replayed if the user touches the unlock image and releases the touch without moving the unlock image to the predetermined unlock region.</p> <p>Similarly, when the locked JB Samsung Galaxy Nexus detects contact with the user’s finger within a predefined radius of the circled padlock unlock image, the image of an unlocked padlock appears to the right of the unlock image on the touchscreen display. This image is a visual cue to the user that the unlock image may be moved to right to unlock the phone.</p> <div data-bbox="953 667 1640 1258" data-label="Image"> </div> <p>(Screenshots of the JB Samsung Galaxy Nexus unlock image, displaying visual cues to direct the user’s movement)</p>

EXHIBIT F7

GALAXY SII

INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,046,721

INFRINGEMENT OF U.S. PATENT NO. 8,046,721 BY THE AT&T SAMSUNG GALAXY SII¹

Claim 7 ²	Infringement by the AT&T Samsung Galaxy SII
<p>7. A portable electronic device, comprising:³</p>	<p>To the extent that the preamble of claim 7 may be construed to be limiting, the AT&T Samsung Galaxy SII is a portable electronic device.</p> <p>Specifically, the AT&T Samsung Galaxy SII is a smartphone with a 4.27” Super AMOLED Plus screen. (See Samsung, AT&T Samsung Galaxy SII Android Smartphone, Features, http://www.samsung.com/us/mobile/cell-phones/SGH-I727MSAATT-features (last visited Apr. 20, 2012)). It weighs 4.3 oz. and measures 4.96” (L) x 2.60” (W) x 0.35” (D). (<i>Id.</i>). Further, the AT&T Samsung Galaxy SII is “powered by a rechargeable Li-ion battery.” (AT&T Samsung Galaxy SII User Manual, at X).</p> <div data-bbox="1087 673 1507 1039" data-label="Image"> </div> <p>(Samsung, AT&T Samsung Galaxy SII, Gallery, http://www.samsung.com/us/mobile/cell-phones/SGH-I777ZKAATT-gallery).</p>

¹ The Samsung Galaxy SII is available in two versions: AT&T and T-Mobile. The screenshots and specifications provided in these claim charts are exemplary and come from an AT&T Galaxy SII. The functionality described in this document is identical on the T-Mobile Galaxy SII. Therefore, this chart applies to the T-Mobile Galaxy SII as well. The specifications for the T-Mobile Galaxy SII can be found at <http://www.samsung.com/us/mobile/cell-phones/SGH-T989ZWBTMB-specs>.

² Pursuant to Apple Inc’s List of Accused Products and Asserted Patent Claims Pursuant To Court Order of March 8, 2013, see D.I. 394 & 467, Apple is only asserting claim 8 of U.S. Patent No. 8,046,721. Because claim 8 is a dependent claim of claim 7, the infringement chart for claim 7 is included for reference.

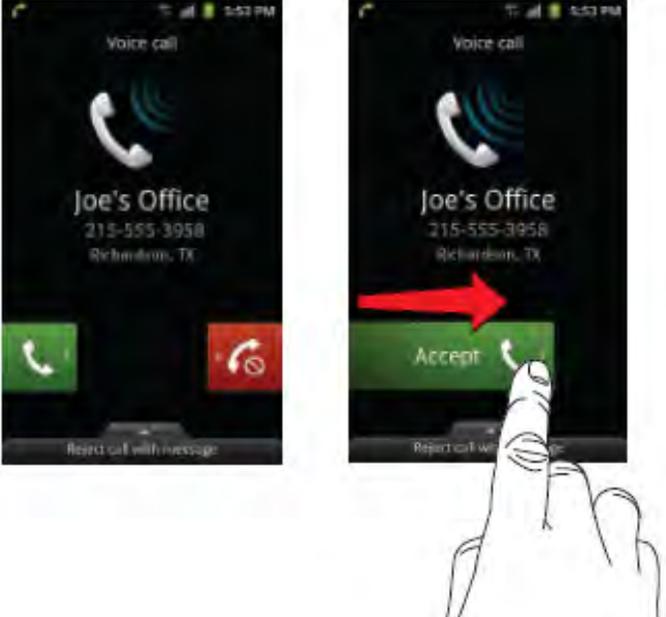
³ Apple’s inclusion of citations related to any claim preamble in this infringement claim chart should not be interpreted as an admission that the preamble is limiting. Apple reserves the right to take the position that the claim preamble is limiting or not limiting on a claim-by-claim basis.

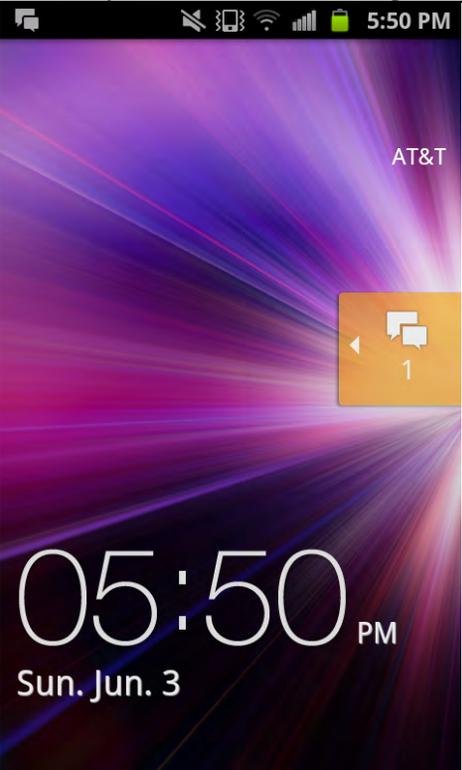
Claim 7 ²	Infringement by the AT&T Samsung Galaxy SII
<p>a touch-sensitive display;</p>	<p>The AT&T Samsung Galaxy SII comprises a touch-sensitive display. In particular, according to the AT&T Samsung Galaxy SII's User Manual, it has a touch screen that "provides quick responses to a variety of in-phone menus and options including applications and seven home screens." (AT&T Samsung Galaxy SII User Manual, at 13). A user interacts with the AT&T Samsung Galaxy SII's applications by, for example, tapping items on the touchscreen to select or launch them, touching and holding screen items to activate them, or "sweeping," meaning "lightly drag[g]ing your finger vertically or horizontally across the screen." (See AT&T Samsung Galaxy SII User Manual, at 27).</p> <div data-bbox="1163 537 1436 1094" data-label="Image"> </div> <p>(AT&T Samsung Galaxy SII User Manual, at 29).</p> <p>The '721 specification makes clear that a touch-sensitive display is the same as a touchscreen display. (See '721 patent 1:25-26 ("Touch-sensitive displays (also known as 'touch screens' or 'touchscreens') are well known in the art.")).</p>

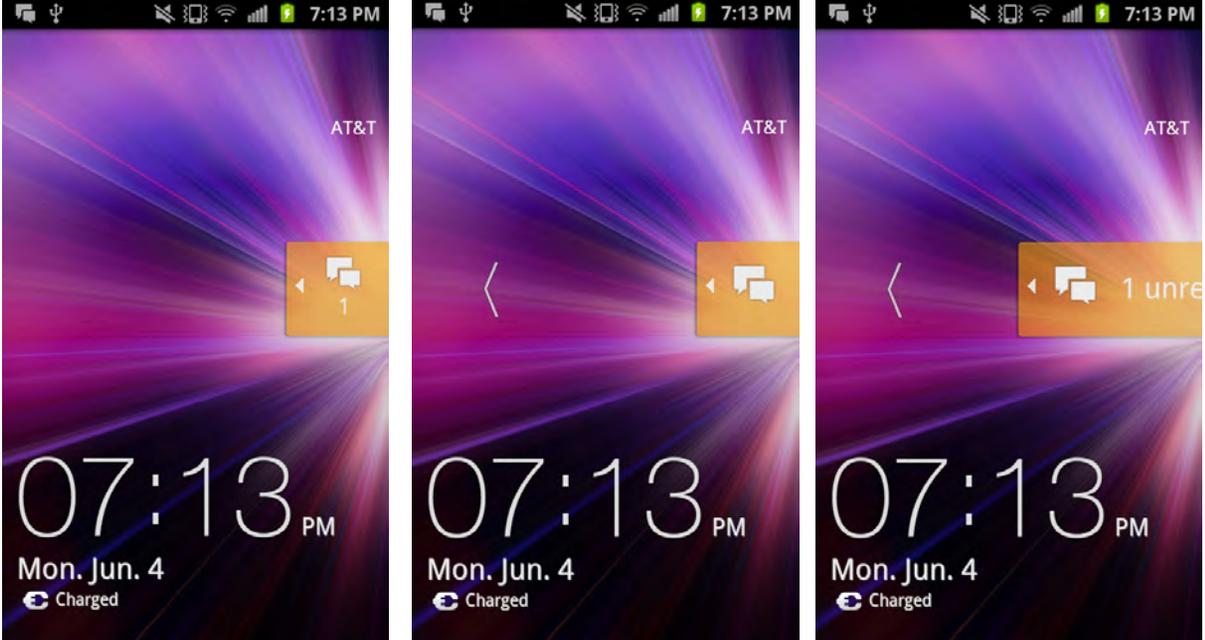
Claim 7 ²	Infringement by the AT&T Samsung Galaxy SII						
memory;	<p>The AT&T Samsung Galaxy SII comprises memory. Specifically, the AT&T Samsung Galaxy SII has 16GB of internal memory and supports an external microSD card. (Samsung, AT&T Samsung Galaxy SII Android Smartphone, Specs, http://www.samsung.com/us/mobile/cell-phones/SGH-I777ZKAATT-specs).</p> <table border="1" data-bbox="688 418 1459 662"> <thead> <tr> <th colspan="2" data-bbox="688 418 1459 479">Memory</th> </tr> </thead> <tbody> <tr> <td data-bbox="688 479 1018 539">Internal Memory</td> <td data-bbox="1018 479 1459 539">16GB/1024MB RAM (4GLPDDR*2)</td> </tr> <tr> <td data-bbox="688 539 1018 662">External Memory/microSD™ Capacity</td> <td data-bbox="1018 539 1459 662">microSD™ Card</td> </tr> </tbody> </table> <p>(Samsung, AT&T Samsung Galaxy SII Android Smartphone, Specs, http://www.samsung.com/us/mobile/cell-phones/SGH-I777ZKAATT-specs).</p>	Memory		Internal Memory	16GB/1024MB RAM (4GLPDDR*2)	External Memory/microSD™ Capacity	microSD™ Card
Memory							
Internal Memory	16GB/1024MB RAM (4GLPDDR*2)						
External Memory/microSD™ Capacity	microSD™ Card						
one or more processors;	<p>The AT&T Samsung Galaxy SII comprises one or more processors. Specifically, the AT&T Samsung Galaxy SII has a 1.2 GHz dual-core processor. (Samsung, AT&T Samsung Galaxy SII Android Smartphone, Specs, http://www.samsung.com/us/mobile/cell-phones/SGH-I777ZKAATT-specs).</p> <p>A faster phone for speedier web browsing</p> <p>Inside the Galaxy S™ II, there's a dual core processor tirelessly keeping things moving. You'll have a full 1.2 GHz of computing power. The Galaxy S™ II keeps your movies moving. Games and apps run smoothly. Websites load almost instantly. And jaws drop even faster. As for network capability, it's specifically engineered to run on AT&T's state-of-the-art 4G network.</p> <p>(Samsung, AT&T Samsung Galaxy SII Android Smartphone, Features, http://www.samsung.com/us/mobile/cell-phones/SGH-I777ZKAATT-features).</p>						

Claim 7 ²	Infringement by the AT&T Samsung Galaxy SII
<p>one or more modules stored in the memory and configured for execution by the one or more processors, the one or more modules including instructions:</p>	<p>The AT&T Samsung Galaxy SII comprises one or more modules stored in the memory and configured for execution by the one or more processors, the one or more modules including instructions.</p> <p>The AT&T Samsung Galaxy SII contains, among other modules, a contact/motion module in its memory that is configured for execution by the AT&T Samsung Galaxy SII's processor. This module allows the AT&T Samsung Galaxy SII to detect contact with the touchscreen. The AT&T Samsung Galaxy SII User Manual discloses some of those contacts that the contact/motion module detects, as show below.</p> <p>Tap</p> <p>Lightly touch items to select or launch them. For example:</p> <ul style="list-style-type: none"> • Tap the on screen keyboard to enter characters or text. • Tap a menu item to select it. • Tap an application's icon to launch the application. <p>Touch and Hold</p> <p>Activate on-screen items by a touch and hold gesture. For example:</p> <ul style="list-style-type: none"> • Touch and hold a widget on the home screen to move it. • Touch and hold on a field to display a pop-up menu of options. <p>Sweep</p> <p>To sweep, lightly drag your finger vertically or horizontally across the screen. Use sweep when:</p> <ul style="list-style-type: none"> • Unlocking the screen • Scrolling through the Home screen or a menu

Claim 7 ²	Infringement by the AT&T Samsung Galaxy SII
	<p>Panning</p> <p>To pan, touch and hold a selected icon, then move the device to the left or right to reposition it to another page. You must first activate Motion on your device. Use panning to:</p> <ul style="list-style-type: none"> • Move icons on your Home screens or Application Menus to another page. <p>(AT&T Samsung Galaxy SII User Manual, at 27-28).</p>
<p>to detect a contact with the touch-sensitive display at a first predefined location corresponding to the unlock image;</p>	<p>The AT&T Samsung Galaxy SII’s one or more modules include instructions to detect a contact with the touch-sensitive display at a first predefined location corresponding to the unlock image. Specifically, when the AT&T Samsung Galaxy SII receives a call, it displays the caller’s phone number and an unlock image on the incoming call screen. (<i>See</i> AT&T Samsung Galaxy SII Manual, at 41). The unlock image, which is a green icon containing the representation of a phone, appears at a predefined location at the left side of the AT&T Samsung Galaxy SII’s touchscreen, as shown below. (<i>Id.</i>). The AT&T Samsung Galaxy SII detects contact with this unlock image as a user touches and slides the image to answer the call. (<i>Id.</i>).</p> <p>Answering a Call</p> <p>When a call is received the phone rings and displays the caller’s phone number, or name if stored in the Address Book.</p> <ol style="list-style-type: none"> 1. At the incoming call screen: <ul style="list-style-type: none"> • Touch and slide  to the right to answer the call.

Claim 7 ²	Infringement by the AT&T Samsung Galaxy SII
	 <p data-bbox="703 863 1885 928">(Representation from AT&T Samsung Galaxy SII User Manual showing user touching unlock icon) (<i>Id.</i>)</p> <p data-bbox="676 971 1885 1075">As a second example, when the AT&T Samsung Galaxy SII receives a text message while in the locked state, it displays a messaging unlock image on the locked home screen, as shown in the screenshot below.</p>

Claim 7 ²	Infringement by the AT&T Samsung Galaxy SII
	 <p data-bbox="680 1040 1877 1182">The unlock image, which is an orange icon containing the representation of the messaging application, appears at a predefined location on the right side of the AT&T Samsung Galaxy SII's touchscreen, as shown above. The AT&T Samsung Galaxy SII detects contact with this unlock image as a user touches and slides the image to the left to unlock the phone.</p>

Claim 7 ²	Infringement by the AT&T Samsung Galaxy SII		
	 <p data-bbox="695 878 1892 948">(Screenshots showing the Galaxy SII detecting contact with the messaging unlock image (middle) and sliding the image to the left as the user slides her finger across the screen)</p> <p data-bbox="680 987 1892 1133">As a third example, when the user misses an incoming call, the AT&T Samsung Galaxy SII displays an unlock image on the locked home screen. The unlock image, which is a red icon containing the representation of a phone, appears at a predefined location at the left side of the Samsung Galaxy SII's touchscreen, as shown in the screenshot below.</p>		

Claim 7 ²	Infringement by the AT&T Samsung Galaxy SII
	 <p data-bbox="688 1052 1900 1120">(Screenshot of the locked home screen for the Samsung Galaxy SII, displaying the missed call unlock image at a predefined location at the left side of the touchscreen)</p> <p data-bbox="688 1161 1837 1226">The Samsung Galaxy SII detects contact with this unlock image as a user touches and then slides the image to the right to unlock the phone and view missed call information.</p>

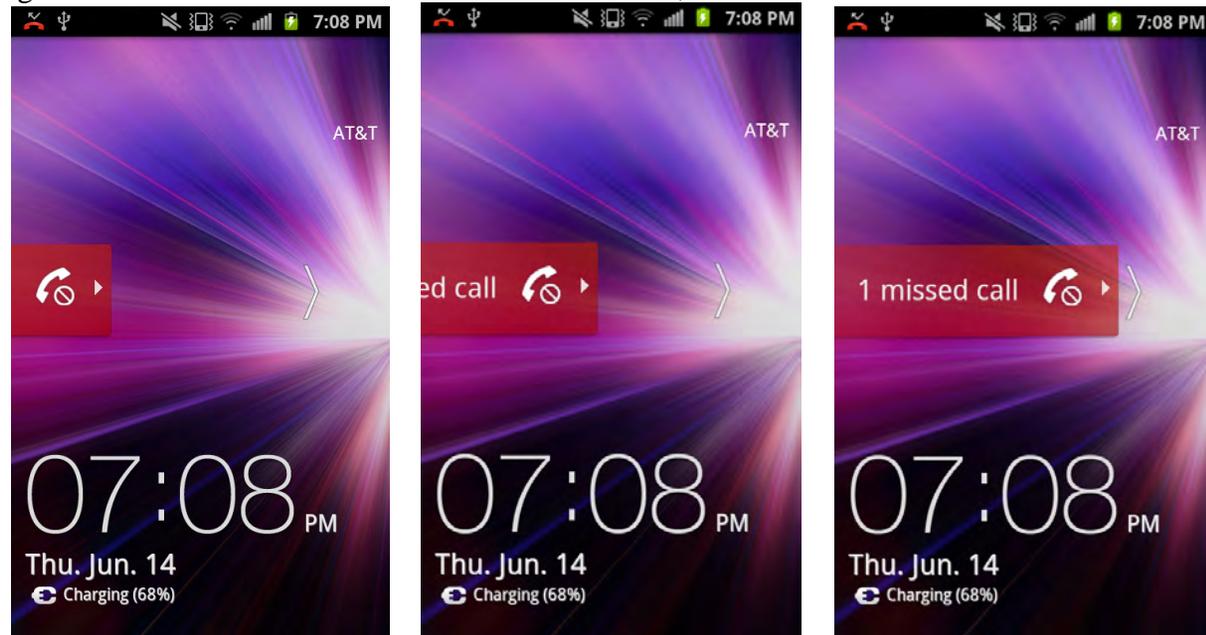
Claim 7 ²	Infringement by the AT&T Samsung Galaxy SII
	 <p data-bbox="680 930 1902 1000">(Screenshots of the AT&T Samsung Galaxy SII detecting a contact with the unlock image on the locked home screen (middle) as the user slides the unlock image to the right)</p> <p data-bbox="680 1040 1902 1143">As is shown in the middle screenshot above, when the AT&T Samsung Galaxy SII detects a contact with the red unlock image, an arrow appears in a predefined location at the right side of the screen.</p>

Claim 7 ²	Infringement by the AT&T Samsung Galaxy SII
<p>to continuously move the unlock image on the touch-sensitive display in accordance with movement of the detected contact while continuous contact with the touch-sensitive display is maintained, wherein the unlock image is a graphical, interactive user-interface object with which a user interacts in order to unlock the device; and</p>	<p>The AT&T Samsung Galaxy SII's one or more modules include instructions to continuously move the unlock image on the touch-sensitive display in accordance with movement of the detected contact while continuous contact with the touch-sensitive display is maintained, wherein the unlock image is a graphical, interactive user-interface object with which a user interacts in order to unlock the device.</p> <p>Specifically, as the user touches and slides the unlock image on the incoming call screen, the AT&T Samsung Galaxy SII includes instructions to continuously move the unlock image from left to right on the touchscreen display provided the user maintains contact with the screen. (See AT&T Samsung Galaxy SII User Manual, at 41).</p> <div data-bbox="961 641 1627 1258" data-label="Image"> </div> <p>(Representation from AT&T Samsung Galaxy SII User Manual showing user touching and sliding the unlock icon from left to right to unlock the phone) (<i>Id.</i>)</p>

Claim 7 ²	Infringement by the AT&T Samsung Galaxy SII
	<p>Further, at the incoming call screen, the AT&T Samsung Galaxy SII's unlock image is a graphical object, namely a green icon containing a representation of a phone, that the user touches and then slides across the touchscreen to unlock the phone. (See AT&T Samsung Galaxy SII User Manual, at 41).</p> <p style="text-align: center;">1. At the incoming call screen:</p> <ul style="list-style-type: none"> • Touch and slide  to the right to answer the call. <p>(<i>Id.</i>).</p> <p>As a second example, as the user touches and slides the messaging unlock image on the locked home screen, the AT&T Samsung Galaxy SII includes instructions to continuously move the messaging unlock image from right to left on the touchscreen display provided the user maintains contact with the screen.</p>  <p>(Screenshots of the AT&T Galaxy SII showing continuous movement of the unlock image from right to left as the user slides her finger across the screen towards the unlock region)</p>

Claim 7²**Infringement by the AT&T Samsung Galaxy SII**

As a third example, as the user touches and slides the missed call unlock image on the locked home screen, the AT&T Samsung Galaxy SII continuously moves the unlock image from left to right while the user maintains contact with the screen, as shown below.



(Screenshots showing the AT&T Samsung Galaxy SII continuously moving the unlock image as a user slides it to the right to unlock the phone)

Claim 7 ²	Infringement by the AT&T Samsung Galaxy SII
	<p data-bbox="678 237 1887 342">Further, the AT& T Samsung Galaxy SII's missed call unlock image is a graphical, interactive user-interface object, namely a red icon containing a representation of a phone, that the user touches and then slides across the touchscreen to unlock the phone, as shown below.</p>  <p data-bbox="678 1146 1881 1214">(Screenshot showing the missed call unlock image on the locked AT&T Samsung Galaxy SII home screen)</p>

Claim 7 ²	Infringement by the AT&T Samsung Galaxy SII
<p>to unlock the hand-held electronic device if the unlock image is moved from the first predefined location on the touch screen to a predefined unlock region on the touch-sensitive display.</p>	<p>The AT&T Samsung Galaxy SII's one or more modules include instructions to unlock the hand-held electronic device if the unlock image is moved from the first predefined location on the touch screen to a predefined unlock region on the touch-sensitive display.</p> <p>Specifically, the AT&T Samsung Galaxy SII includes instructions to unlock the phone to permit the user to answer an incoming phone call. When the user slides the green unlock image from its original location at the left side of the touch-sensitive display to a predefined unlock region on the right side of the touch-sensitive display, the phone unlocks to facilitate the call. (See AT&T Samsung Galaxy SII User Manual, at 41).</p> <div data-bbox="961 602 1627 1226" data-label="Image"> </div> <p>(Representation of a user sliding the green unlock image from a first pre-defined location at the left side of the AT&T Samsung Galaxy SII touchscreen to the unlock region in order to unlock the phone to answer an incoming call) (AT&T Samsung Galaxy SII User Manual, at 41)</p>

Claim 7 ²	Infringement by the AT&T Samsung Galaxy SII
	<p>After the user answers and then terminates the call, all the applications on the phone are unlocked for the user to use. Thus, the phone is in a user-interface unlock state.</p> <p>As a second example, the AT&T Samsung Galaxy SII includes instructions to unlock the phone when the user slides the messaging unlock image across the touchscreen. Specifically, when the user slides the orange messaging unlock image from its original location at the right side of the touch-sensitive display to a predefined unlock region on the right side of the touch-sensitive display, the phone unlocks to allow the user to read the new text message.</p> <div data-bbox="682 557 1900 1198" data-label="Image"> </div> <p>(Screenshots showing the movement of the messaging unlock icon from the first predefined region to the second predefined unlock region, resulting in unlocking the phone)</p>

Claim 7²**Infringement by the AT&T Samsung Galaxy SII**

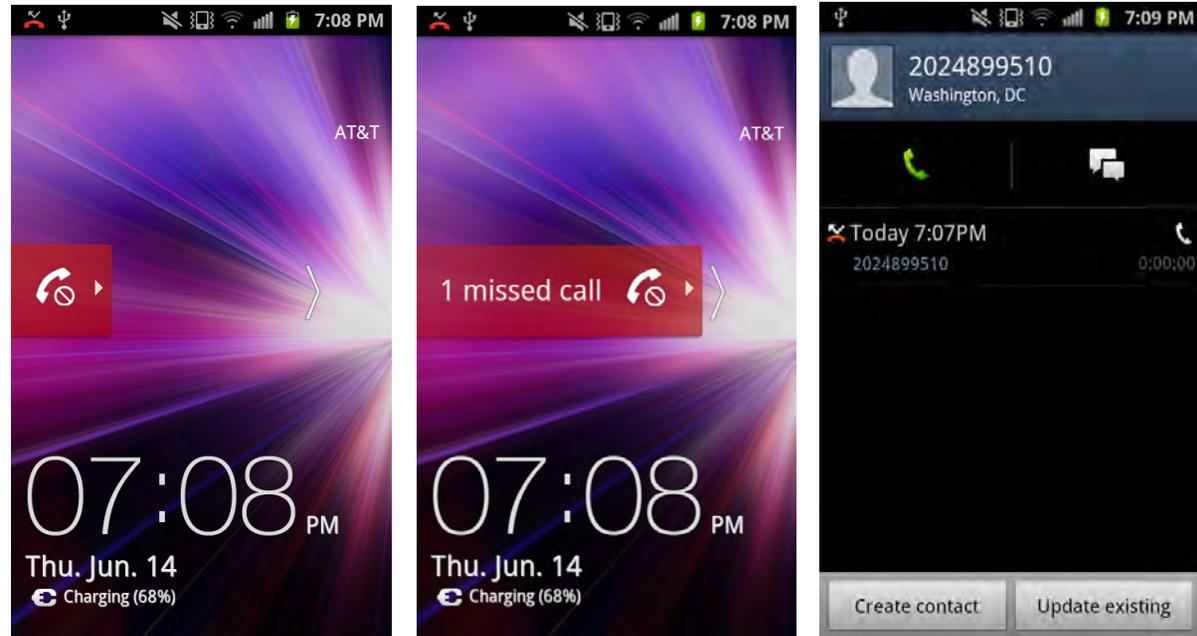
After the user unlocks the phone by sliding the orange messaging unlock image to the predefined unlock region, all applications on the phone are available to the user. Thus, the phone is in a user-interface unlock state.



(Screenshot of the unlocked AT&T Galaxy SII after the user has exited the Messaging application)

Claim 7²**Infringement by the AT&T Samsung Galaxy SII**

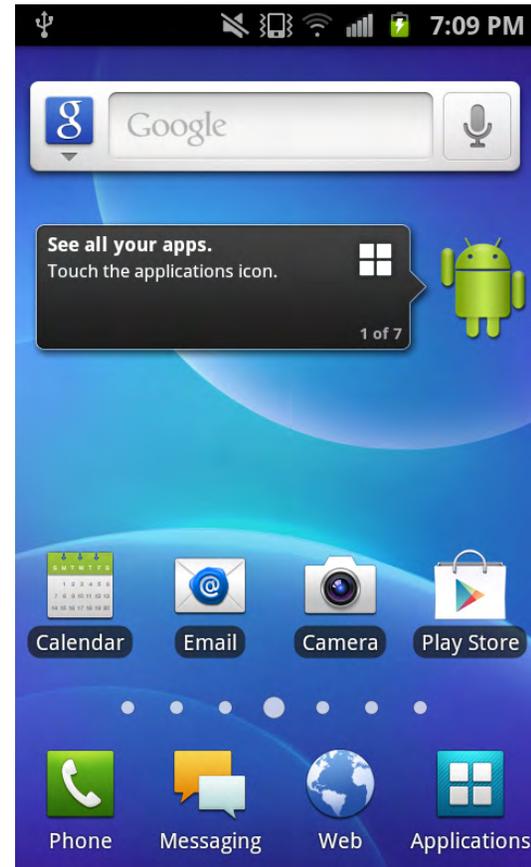
As a third example, the AT&T Samsung Galaxy SII unlocks to permit the user to view missed call information when the user slides the red missed call unlock image from its original, predefined location at the left side of the touch-sensitive display to a predefined unlock region on the right side of the touch-sensitive display. The predefined unlock region is denoted by a large white arrow, as shown below.



(Screenshots of the AT&T Samsung Galaxy SII showing the unlock image sliding to the right as a user unlocks the phone to view missed call information)

Claim 7²**Infringement by the AT&T Samsung Galaxy SII**

After the user unlocks the phone using the missed call unlock image, all applications on the phone are available to the user. Thus, the phone is in a user-interface unlock state.



(Screenshot of the Samsung Galaxy SII after the user exits the missed call log)

Claim 8	Infringement by the AT&T Samsung Galaxy SII
<p>8. The device of claim 7, further comprising instructions to display visual cues to communicate a direction of movement.</p>	<p>The AT&T Samsung Galaxy SII's one or more modules further comprise instructions to display visual cues to communicate a direction of movement. In particular, the AT&T Samsung Galaxy SII includes instructions to display an arrow on the phone's green unlock image on the incoming call screen. (<i>See</i> AT&T Samsung Galaxy SII User Manual, at 41). The arrow is a visual cue that directs the user to slide the image to the right to unlock the phone and answer an incoming call. (<i>Id.</i>). The presence of the arrow on the unlock image is shown below.</p> <p>1. At the incoming call screen:</p> <ul style="list-style-type: none"> • Touch and slide  to the right to answer the call. <div data-bbox="1144 646 1444 1144" data-label="Image"> </div> <p>(Image from the AT&T Samsung Galaxy SII User Manual with the arrow circled in yellow) (<i>See id.</i>)</p>

Claim 8	Infringement by the AT&T Samsung Galaxy SII
	<p data-bbox="680 237 1898 375">As a second example, the AT&T Samsung Galaxy SII includes instructions to display an arrow on the phone's orange messaging unlock image on the locked home screen. The arrow is a visual cue that directs the user to slide the image to the left to unlock the phone and read the new text message. The presence of the arrow on the messaging unlock image is shown below.</p>  <p data-bbox="716 1247 1877 1317">(Image from the AT&T Samsung Galaxy SII with the arrow on the messaging unlock image circled in yellow)</p>

Claim 8	Infringement by the AT&T Samsung Galaxy SII
	<p data-bbox="678 250 1839 354">Moreover, after the AT&T Samsung Galaxy SII detects contact with the messaging unlock image, it displays a white arrow on the left side of the screen, further guiding the user's movement.</p>  <p data-bbox="730 1211 1860 1315">(Screenshot of the AT&T Galaxy SII after a user contact with the unlock screen is detected, displaying a second arrow to guide the user's movement (arrow circled in yellow))</p>

Claim 8	Infringement by the AT&T Samsung Galaxy SII
	<p data-bbox="680 250 1892 391">As a third example, the AT&T Samsung Galaxy SII displays an arrow on the phone's red missed call unlock image on the locked home screen, as shown below. The arrow is a visual cue that directs the user to slide the image to the right to unlock the phone and view the missed call log. The presence of the arrow on the unlock image is shown below.</p> <div data-bbox="1062 461 1524 1227">A screenshot of the AT&T Samsung Galaxy SII home screen. The background is a purple and blue abstract design. At the top, the status bar shows various icons and the time 7:08 PM. The AT&T logo is in the top right. A red missed call notification is centered, featuring a white phone icon with a red slash, the number '1', and a white right-pointing arrow. Below the notification, the time '07:08 PM' and date 'Thu. Jun. 14' are displayed, along with a battery icon and 'Charging (68%)'.</div> <p data-bbox="680 1247 1892 1317">(Screenshot of the AT&T Galaxy SII showing the presence of the arrow on the missed call unlock image)</p>

Claim 8	Infringement by the AT&T Samsung Galaxy SII
	<p>Moreover, when the AT&T Samsung Galaxy SII detects user contact with the red unlock image, it displays a second arrow in the predefined unlock region on the right side of the display, providing the user with an additional visual cue regarding the direction of movement.</p>  <p>The screenshot shows the lock screen of an AT&T Samsung Galaxy SII. At the top, the status bar displays various icons including a red lock icon, a USB icon, a vibration icon, a camera icon, a Wi-Fi icon, a signal strength icon, a battery icon, and the time 7:08 PM. The background is a purple and blue abstract design with light rays. In the upper right corner, the AT&T logo is visible. On the left side, there is a red square icon containing a white circular arrow with a slash through it and a small white arrow pointing to the right. On the right side, there is a white chevron arrow pointing to the right. At the bottom, the time 07:08 PM is displayed in large white digits, followed by the date Thu. Jun. 14 and a battery icon with the text Charging (68%).</p> <p>(Screenshot of the AT&T Samsung Galaxy SII as it is detecting contact with the unlock image, displaying a second visual cue regarding direction of movement)</p>

EXHIBIT F8

GALAXY SII EPIC 4G TOUCH

INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,046,721

INFRINGEMENT OF U.S. PATENT NO. 8,046,721 BY THE SAMSUNG GALAXY SII EPIC 4G TOUCH (SPH-D710)

Claim 7 ¹	Infringement by the Samsung Galaxy SII Epic 4G Touch
<p>7. A portable electronic device, comprising:²</p>	<p>To the extent that the preamble of claim 7 may be construed to be limiting, the Samsung Galaxy SII Epic 4G Touch is a portable electronic device. Specifically, the Samsung Galaxy SII Epic 4G Touch, which is available from Sprint, is an Android smartphone with a 4.52” Super AMOLED Plus touch screen display. (See Samsung, Galaxy SII Epic 4G Touch Specifications, http://www.samsung.com/us/mobile/cell-phones/SPH-D710ZKASPR-specs). It weighs 4.6 oz. and measures 5.11” (L) x 2.74” (W) x 0.38” (D). (<i>Id.</i>). It has a 1.2 GHz dual-core Samsung Exynos C210 processor. (<i>Id.</i>). Further, the Samsung Galaxy SII Epic 4G Touch is “equipped with a Lithium ion (Li-ion) battery.” (Epic 4G Touch User Guide, at 63).</p> <div data-bbox="989 602 1598 1138" data-label="Image"> </div> <p>(Samsung, Galaxy SII Epic 4G Touch Gallery, http://www.samsung.com/us/mobile/cell-phones/SPH-D710ZKASPR-gallery).</p>

¹ Pursuant to Apple Inc’s List of Accused Products and Asserted Patent Claims Pursuant To Court Order of March 8, 2013, see D.I. 394 & 467, Apple is only asserting claim 8 of U.S. Patent No. 8,046,721. Because claim 8 is a dependent claim of claim 7, the infringement chart for claim 7 is included for reference.

² Apple’s inclusion of citations related to any claim preamble in this infringement claim chart should not be interpreted as an admission that the preamble is limiting. Apple reserves the right to take the position that the claim preamble is limiting or not limiting on a claim-by-claim basis.

Claim 7 ¹	Infringement by the Samsung Galaxy SII Epic 4G Touch
<p>a touch-sensitive display;</p>	<p>Additionally, according to the Samsung Galaxy SII Epic 4G Touch’s User Guide, it has a touch screen that “displays all information needed to operate your device, such as the call status, the Contacts list, and the date and time [and] [a]lso provides one-touch access to all your features and applications.” (Epic 4G Touch User Guide, at 17). A user interacts with Epic 4G Touch’s applications by, for example, tapping items on the touchscreen to select or launch them, touching and holding screen items to activate them, or swiping/sliding, meaning “quickly drag[ging] your finger vertically or horizontally across the screen.” (<i>Id.</i> at 19-22).</p> <p>Touchscreen Navigation</p> <p>Your device’s touchscreen lets you control actions through a variety of touch gestures.</p> <p>Tap</p> <p>When you want to type using the onscreen keyboard, select items onscreen such as application and settings icons, or press onscreen buttons, simply tap them with your finger.</p>  <p>(Epic 4G Touch User Guide, at 19-20).</p> <p>The ’721 specification makes clear that a touch-sensitive display is the same as a touchscreen display. (<i>See</i> ’721 patent 1:25-26 (“Touch-sensitive displays (also known as ‘touch screens’ or ‘touchscreens’) are well known in the art.”)).</p>

Claim 7 ¹	Infringement by the Samsung Galaxy SII Epic 4G Touch						
memory;	<p>The Samsung Galaxy SII Epic 4G Touch comprises memory.</p> <p>Specifically, the Samsung Galaxy SII Epic 4G Touch has 16GB of internal memory and supports an external microSD card. (Samsung, Epic 4G Touch Android Smartphone Specifications, http://www.samsung.com/us/mobile/cell-phones/SPH-D710ZKASPR-specs).</p> <table border="1" data-bbox="688 456 1287 703"> <thead> <tr> <th colspan="2" data-bbox="688 456 1287 521">Memory</th> </tr> </thead> <tbody> <tr> <td data-bbox="688 521 1016 578">Internal Memory</td> <td data-bbox="1016 521 1287 578">16GB</td> </tr> <tr> <td data-bbox="688 578 1016 703">External Memory/microSD™ Capacity</td> <td data-bbox="1016 578 1287 703">32GB</td> </tr> </tbody> </table> <p>(<i>Id.</i>).</p>	Memory		Internal Memory	16GB	External Memory/microSD™ Capacity	32GB
Memory							
Internal Memory	16GB						
External Memory/microSD™ Capacity	32GB						
one or more processors;	<p>The Samsung Galaxy SII Epic 4G Touch comprises one or more processors.</p> <p>Specifically, the Samsung Galaxy SII Epic 4G Touch has a 1.2 GHz dual-core processor. (<i>Id.</i>).</p> <table border="1" data-bbox="688 930 1568 1081"> <thead> <tr> <th colspan="2" data-bbox="688 930 1568 992">CPU / Processor</th> </tr> </thead> <tbody> <tr> <td data-bbox="688 992 1016 1081">Processor Speed, Type</td> <td data-bbox="1016 992 1568 1081">1.2 GHz, Dual Core (Samsung Exynos C210)</td> </tr> </tbody> </table> <p>(Samsung, Samsung Galaxy SII Epic 4G Touch Android Smartphone Specifications, http://www.samsung.com/us/mobile/cell-phones/SPH-D710ZKASPR-specs).</p>	CPU / Processor		Processor Speed, Type	1.2 GHz, Dual Core (Samsung Exynos C210)		
CPU / Processor							
Processor Speed, Type	1.2 GHz, Dual Core (Samsung Exynos C210)						

Claim 7 ¹	Infringement by the Samsung Galaxy SII Epic 4G Touch
<p>one or more modules stored in the memory and configured for execution by the one or more processors, the one or more modules including instructions:</p>	<p>The Samsung Galaxy SII Epic 4G Touch comprises one or more modules stored in the memory and configured for execution by the one or more processors, the one or more modules including instructions.</p> <p>The Samsung Galaxy SII Epic 4G Touch contains, among other modules, a contact/motion module in its memory that is configured for execution by the Samsung Galaxy SII Epic 4G Touch's processor. This module allows the Samsung Galaxy SII Epic 4G Touch to detect contact with the touchscreen. The Samsung Galaxy SII Epic 4G Touch User Guide discloses some of those contacts that the contact/motion module detects, as shown below.</p> <p><i>Touchscreen Navigation</i></p> <p>Your device's touchscreen lets you control actions through a variety of touch gestures.</p> <p><i>Tap</i> When you want to type using the onscreen keyboard, select items onscreen such as application and settings icons, or press onscreen buttons, simply tap them with your finger.</p> <p><i>Touch and Hold</i> To open the available options for an item (for example, a contact or link in a Web page), touch and hold the item.</p> <p><i>Drag</i> To drag, press and hold your finger with some pressure before you start to move your finger. While dragging, do not release your finger until you have reached the target position.</p>

Claim 7¹

Infringement by the Samsung Galaxy SII Epic 4G Touch

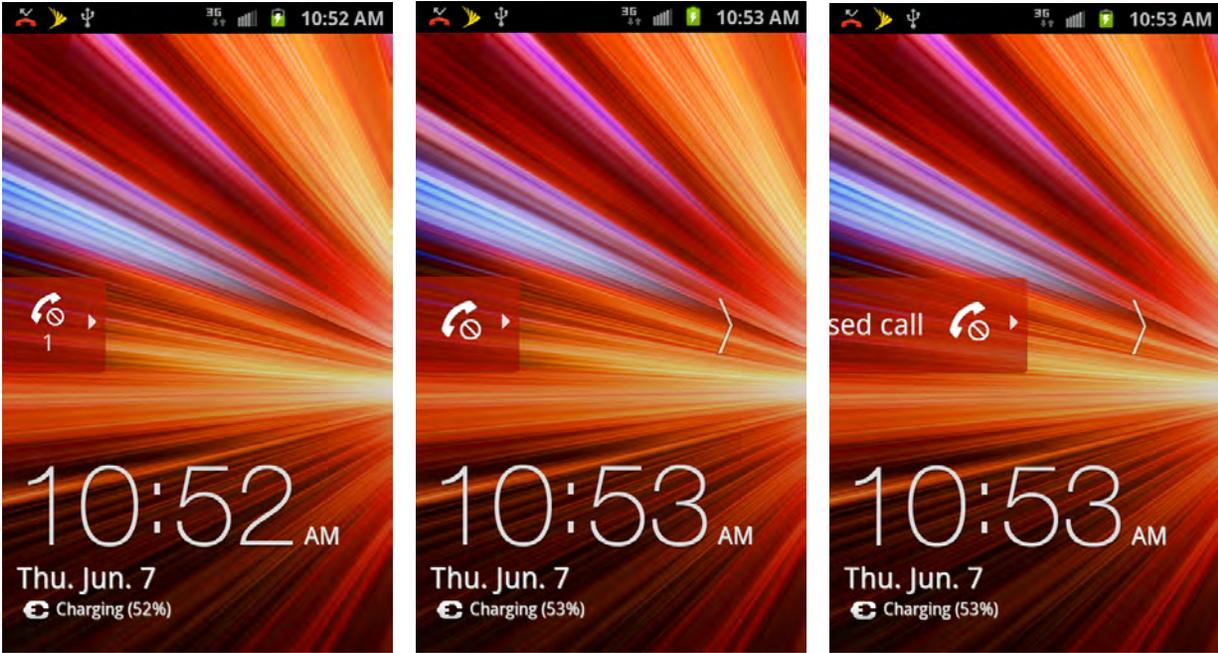
Swipe or Slide

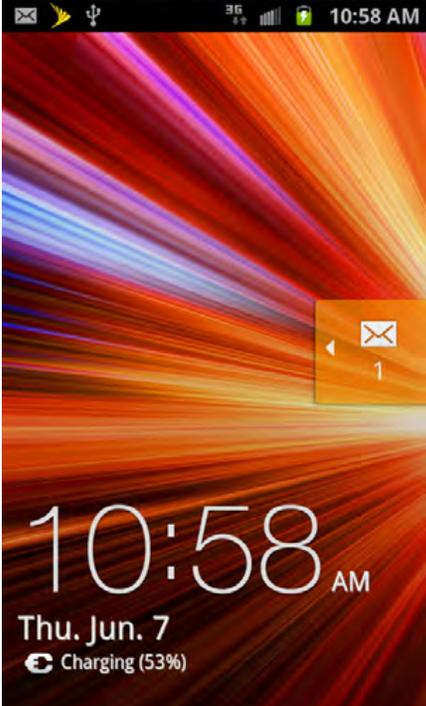
To swipe or slide means to quickly drag your finger vertically or horizontally across the screen.

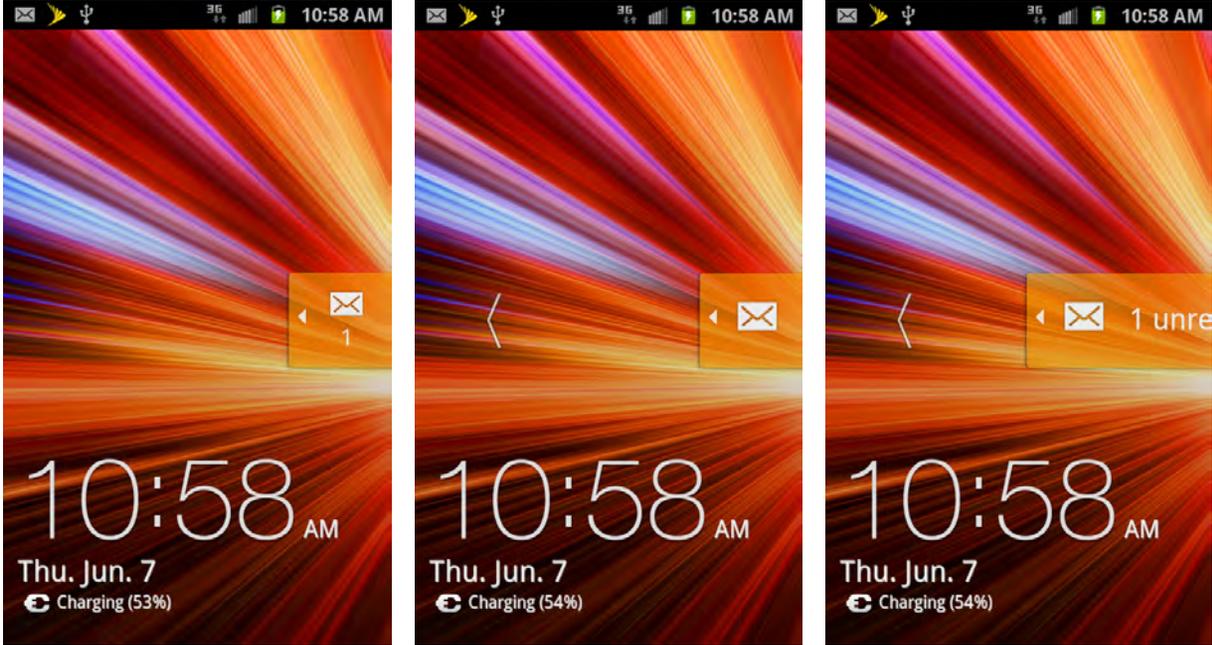


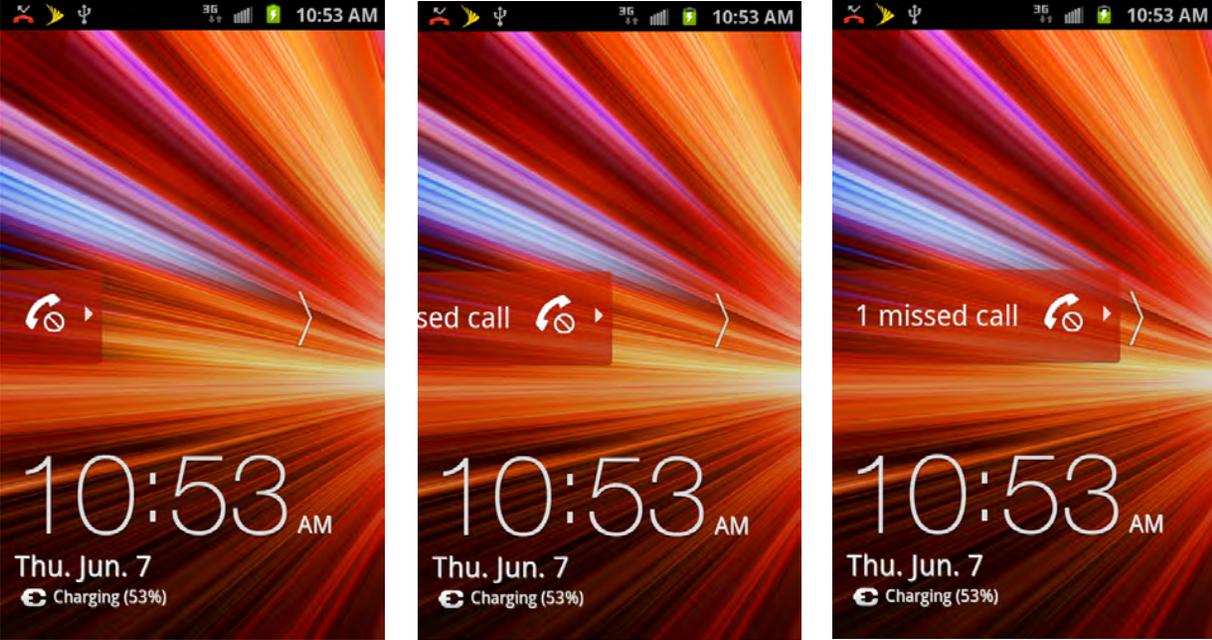
(Epic 4G Touch User Guide, at 19-21).

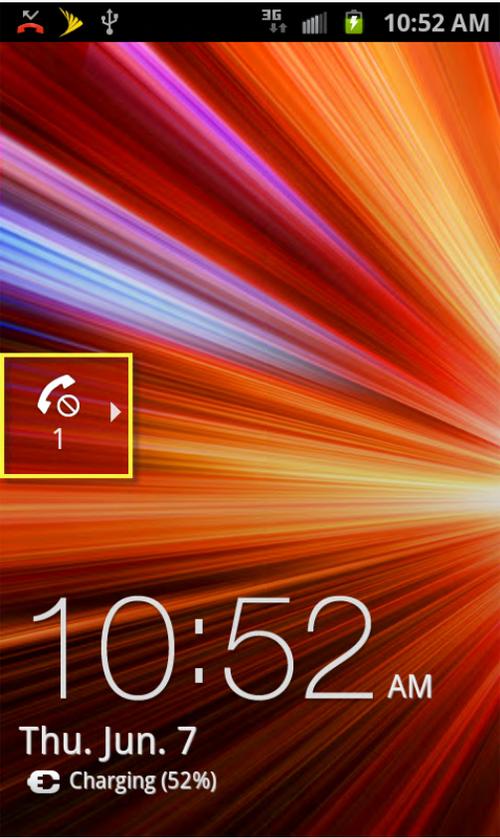
Claim 7 ¹	Infringement by the Samsung Galaxy SII Epic 4G Touch
<p>to detect a contact with the touch-sensitive display at a first predefined location corresponding to the unlock image;</p>	<p>The Samsung Galaxy SII Epic 4G Touch's one or more modules include instructions to detect a contact with the touch-sensitive display at a first predefined location corresponding to the unlock image.</p> <p>Specifically, when the user misses an incoming call, the Samsung Galaxy SII Epic 4G Touch displays an unlock image on the locked home screen. The unlock image, which is a red icon containing the representation of a phone, appears at a predefined location at the left side of the Samsung Galaxy SII Epic 4G Touch's touchscreen, as shown in the screenshot below.</p>  <p>(Screenshot of the locked home screen for the Samsung Epic 4G Touch, displaying the missed call unlock image at a predefined location at the left side of the touchscreen)</p>

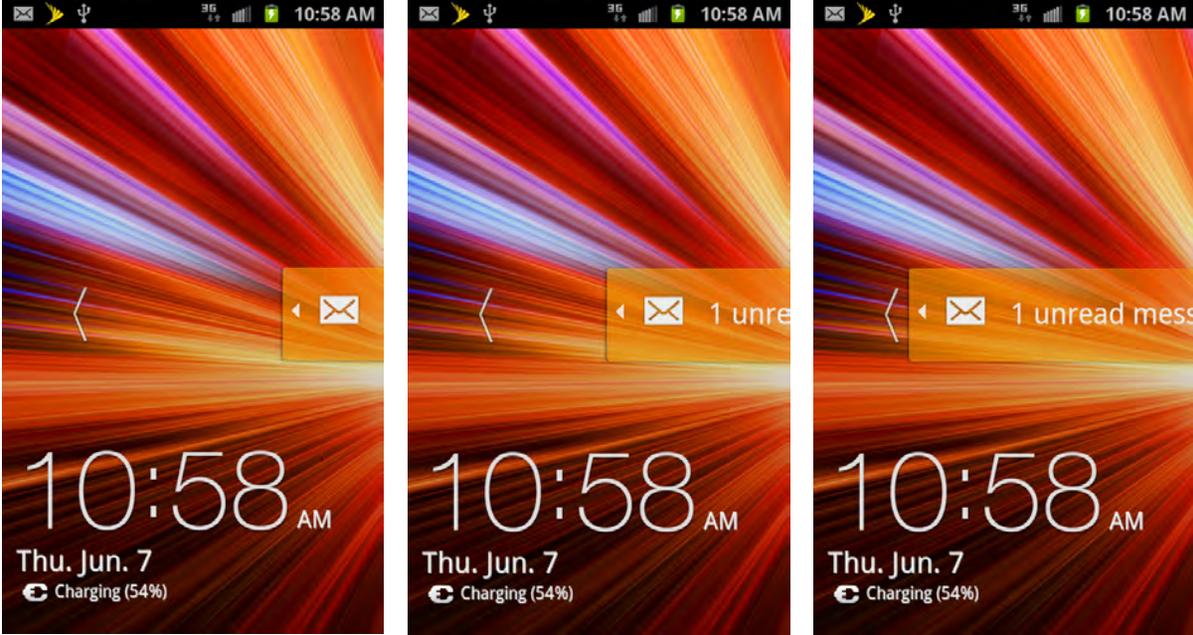
Claim 7 ¹	Infringement by the Samsung Galaxy SII Epic 4G Touch
	<p data-bbox="680 237 1818 337">The Samsung Galaxy SII Epic 4G Touch detects contact with this unlock image as a user touches and then slides the image to the right to unlock the phone and view missed call information.</p> <div data-bbox="680 391 1898 1044"></div> <p data-bbox="688 1084 1902 1154">(Screenshots of the Samsung Epic 4G Touch detecting a contact with the unlock image on the locked home screen (middle) as the user slides the unlock image to the right)</p> <p data-bbox="680 1195 1850 1300">As is shown in the middle screenshot above, when the Samsung Galaxy SII Epic 4G Touch detects a contact with the red unlock image, an arrow appears in a predefined location at the right side of the screen.</p>

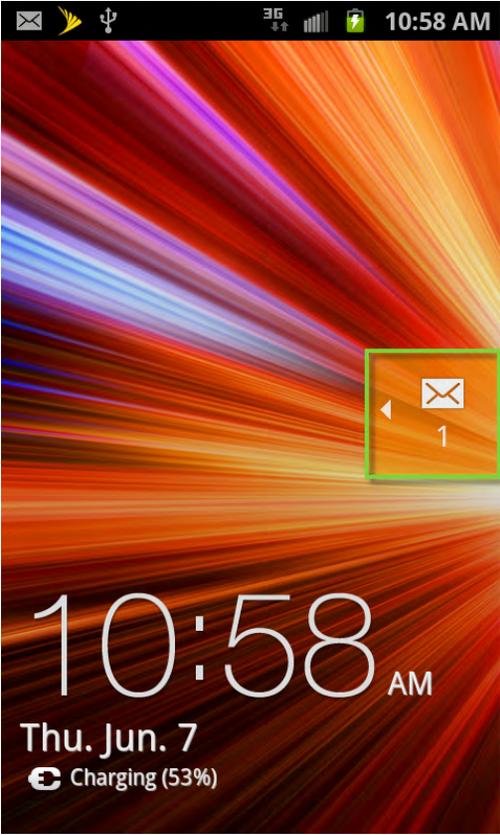
Claim 7 ¹	Infringement by the Samsung Galaxy SII Epic 4G Touch
	<p>As a second example, when a locked Samsung Galaxy SII Epic 4G Touch receives a text message through its Messaging application, it displays an unlock image on the home screen, as shown in the screenshot below.</p>  <p>(Screenshot of the locked home screen for the Samsung Epic 4G Touch, displaying the message unlock image at a predefined location at the right side of the touchscreen)</p>

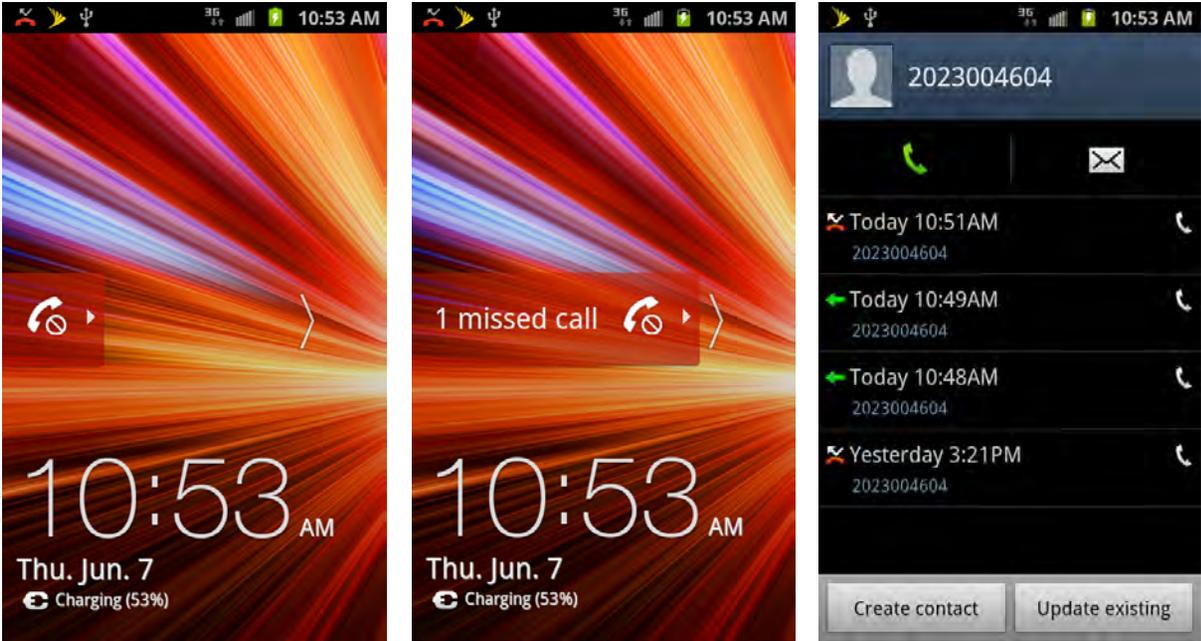
Claim 7 ¹	Infringement by the Samsung Galaxy SII Epic 4G Touch
	<p>The unlock image, which is an orange icon containing a representation of a text message, appears at predefined location at the right side of the Samsung Galaxy SII Epic 4G Touch's locked touchscreen, as shown above. The Samsung Galaxy SII Epic 4G Touch detects contact with this unlock image as a user touches and slides the image to the left to unlock the phone and view the text message.</p>  <p>(Screenshots of the Samsung Epic 4G Touch detecting contact with the messaging unlock image (middle) as a user touches the image and slides it to the left)</p> <p>As is shown in the middle screenshot above, when the Samsung Epic 4G Touch detects contact with the unlock image, it displays a white arrow on the left side of the locked home screen.</p>

Claim 7 ¹	Infringement by the Samsung Galaxy SII Epic 4G Touch
<p>to continuously move the unlock image on the touch-sensitive display in accordance with movement of the detected contact while continuous contact with the touch-sensitive display is maintained, wherein the unlock image is a graphical, interactive user-interface object with which a user interacts in order to unlock the device; and</p>	<p>The Samsung Galaxy SII Epic 4G Touch's one or more modules include instructions to continuously move the unlock image on the touch-sensitive display in accordance with movement of the detected contact while continuous contact with the touch-sensitive display is maintained, wherein the unlock image is a graphical, interactive user-interface object with which a user interacts in order to unlock the device.</p> <p>Specifically, as the user touches and slides the missed call unlock image on the locked home screen, the Samsung Galaxy SII Epic 4G Touch continuously moves the unlock image from left to right while the user maintains contact with the screen, as shown below.</p>  <p>(Screenshots showing the Samsung Epic 4G Touch continuously moving the unlock image as a user slides it to the right to unlock the phone)</p>

Claim 7 ¹	Infringement by the Samsung Galaxy SII Epic 4G Touch
	<p data-bbox="680 235 1885 337">Further, the Samsung Galaxy SII Epic 4G Touch's missed call unlock image is a graphical, interactive user-interface object, namely a red icon containing a representation of a phone, that the user touches and then slides across the touchscreen to unlock the phone, as shown below.</p>  <p data-bbox="709 1214 1885 1286">(Screenshot showing the missed call unlock image (highlighted in yellow) on the locked Samsung Epic 4G Touch home screen)</p>

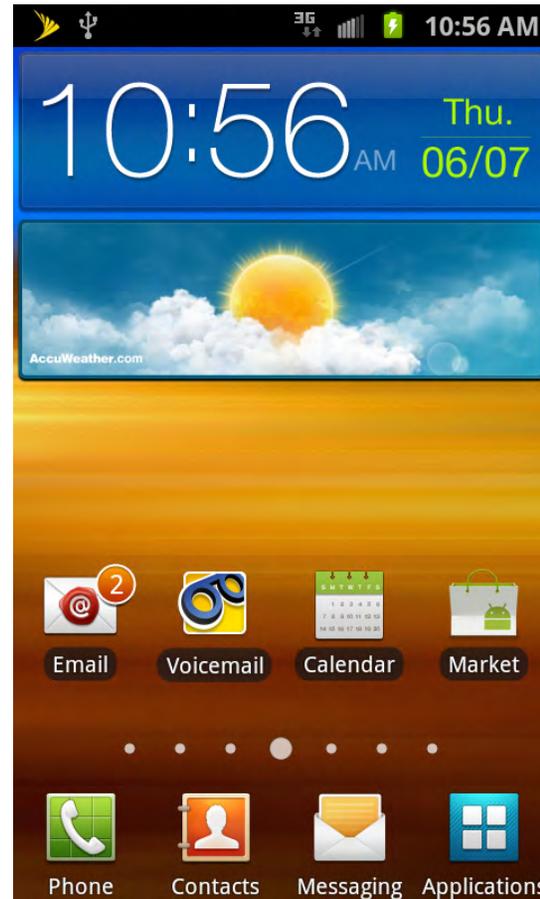
Claim 7 ¹	Infringement by the Samsung Galaxy SII Epic 4G Touch
	<p data-bbox="680 237 1902 375">As a second example, as the user touches and slides the messaging unlock image on the locked home screen, the Samsung Galaxy SII Epic 4G Touch continuously moves the unlock image from right to left on the touchscreen display while the user maintains contact with the screen, as shown below.</p> <div data-bbox="709 378 1902 1013">The image consists of three sequential screenshots of a Samsung Epic 4G Touch home screen. Each screenshot shows a vibrant, abstract background with streaks of orange, red, and purple. At the top, the status bar displays the time as 10:58 AM, the date as Thu. Jun. 7, and a battery icon indicating 54% charging. In the center of each screen, there is a white left-pointing chevron icon. To the right of the chevron is an orange rectangular button with a white envelope icon. In the first screenshot, the button is on the right side of the screen. In the second screenshot, the button has moved slightly to the left. In the third screenshot, the button has moved further to the left, and the text "1 unread message" is visible to its right. The time and date displayed at the bottom of each screen are "10:58 AM" and "Thu. Jun. 7" respectively.</div> <p data-bbox="709 1052 1881 1122">(Screenshots of the Samsung Epic 4G Touch continuously moving the messaging unlock image across the screen as the user slides her finger to the left to unlock the phone)</p>

Claim 7 ¹	Infringement by the Samsung Galaxy SII Epic 4G Touch
	<p data-bbox="680 237 1908 375">Further, at the locked home screen, the Samsung Galaxy SII Epic 4G Touch's messaging unlock image is a graphical, interactive user-interface object, namely an orange icon containing the representation of a text message, that the user touches and then slides across the touchscreen to unlock the phone and view the new text message.</p>  <p data-bbox="716 1284 1877 1354">(Screenshot of the Samsung Galaxy SII Epic 4G Touch's locked home screen with the messaging unlock image highlighted in green)</p>

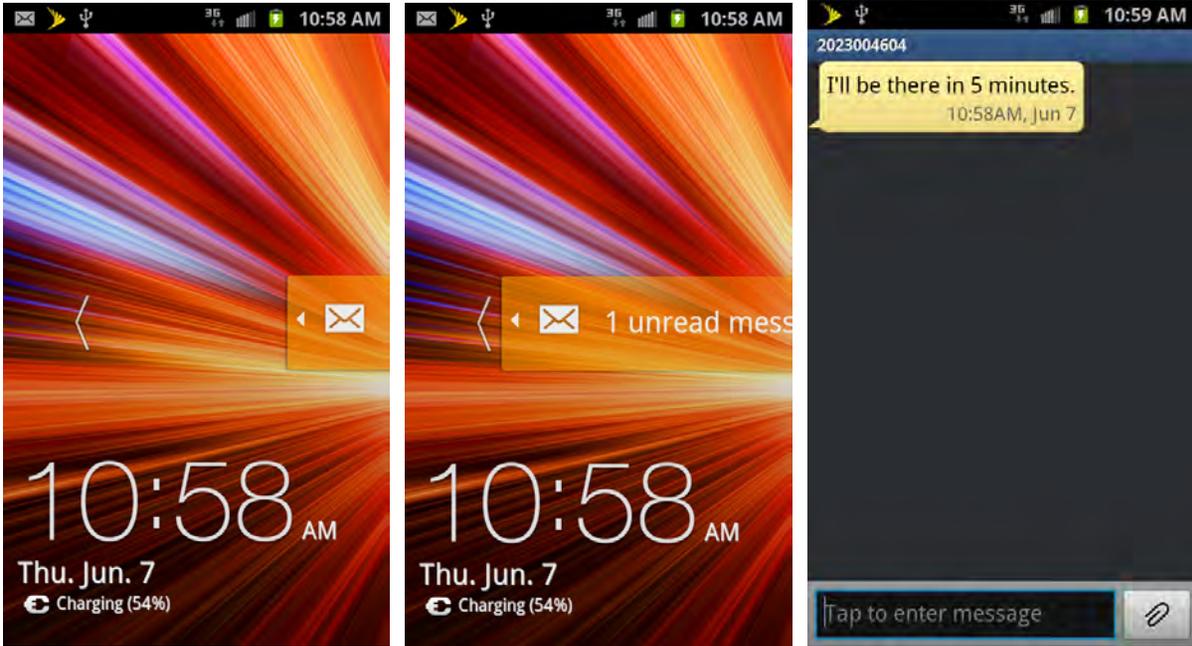
Claim 7 ¹	Infringement by the Samsung Galaxy SII Epic 4G Touch
<p>to unlock the hand-held electronic device if the unlock image is moved from the first predefined location on the touch screen to a predefined unlock region on the touch-sensitive display.</p>	<p>The Samsung Galaxy SII Epic 4G Touch's one or more modules include instructions to unlock the hand-held electronic device if the unlock image is moved from the first predefined location on the touch screen to a predefined unlock region on the touch-sensitive display.</p> <p>Specifically, the Samsung Galaxy SII Epic 4G Touch includes instructions to unlock the phone to permit the user to view missed call information when the user slides the red missed call unlock image from its original, predefined location at the left side of the touch-sensitive display to a predefined unlock region on the right side of the touch-sensitive display. The predefined unlock region is denoted by a large white arrow, as shown below.</p> <div data-bbox="680 594 1881 1235"><p>The figure consists of three screenshots from the Samsung Galaxy SII Epic 4G Touch. The first two screenshots show the lock screen with a red missed call icon on the left and a white arrow pointing right, indicating the direction of the unlock gesture. The third screenshot shows the missed call notification screen with a list of missed calls from the number 2023004604.</p></div> <p>(Screenshots of the Epic 4G Touch showing the unlock image sliding to the right as a unlocks the phone to view missed call information)</p>

Claim 7¹**Infringement by the Samsung Galaxy SII Epic 4G Touch**

After the user unlocks the phone using the missed call unlock image, all applications on the phone are available to the user. Thus, the phone is in a user-interface unlock state.

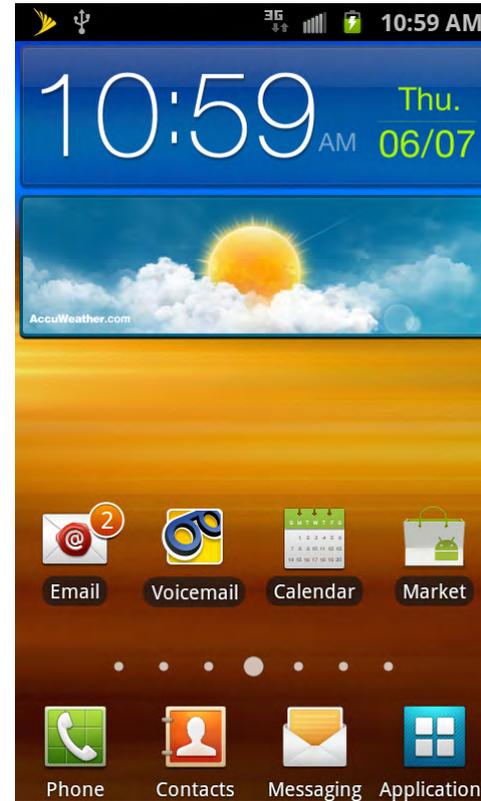


(Screenshot of the Samsung Epic 4G Touch after the user exits the missed call log)

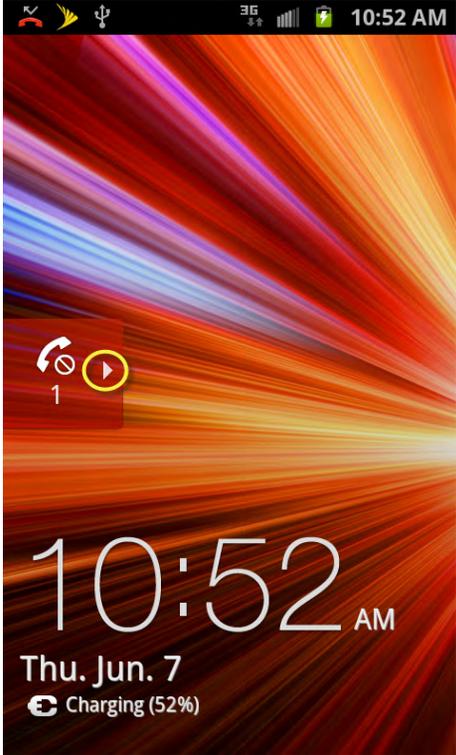
Claim 7 ¹	Infringement by the Samsung Galaxy SII Epic 4G Touch
	<p data-bbox="678 237 1892 412">As a second example, the Samsung Galaxy SII Epic 4G Touch includes instructions to unlock and open the Messaging application when the user slides the orange messaging unlock image from its original, predefined location at the right side of the touch-sensitive display to a predefined unlock region on the left side of the touch-sensitive display. The predefined unlock region is denoted by a large white arrow, as shown below.</p> <div data-bbox="695 451 1887 1097">The image contains three screenshots of the Samsung Epic 4G Touch. The first two screenshots show the lock screen with a large white arrow pointing left and an orange messaging icon on the right. The icon is shown in two positions, illustrating its movement from right to left. The time is 10:58 AM, Thu. Jun. 7, and the battery is at 54%. The third screenshot shows the messaging app interface with a message that says "I'll be there in 5 minutes." at 10:58 AM, Jun 7. The time is now 10:59 AM.</div> <p data-bbox="688 1138 1898 1206">(Screenshots of the Samsung Epic 4G Touch showing the messaging unlock image sliding to the left and the phone unlocking as the image reaches the predefined unlock region)</p>

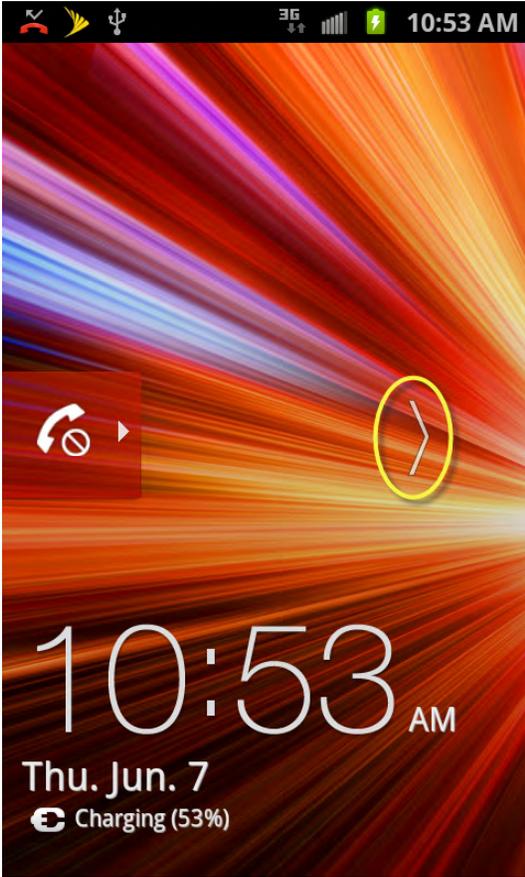
Claim 7¹**Infringement by the Samsung Galaxy SII Epic 4G Touch**

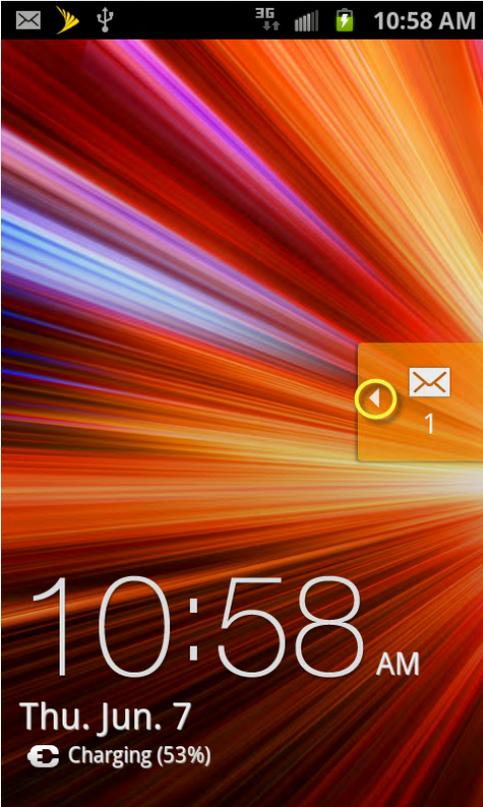
After the user unlocks the phone by sliding the orange messaging unlock image to the predefined unlock region, all applications on the phone are available to the user. Thus, the phone is in a user-interface unlock state.



(Screenshot of the unlocked Samsung Epic 4G Touch after the user exits the Messaging application)

Claim 8	Infringement by the Samsung Galaxy SII Epic 4G Touch
<p>8. The device of claim 7, further comprising instructions to display visual cues to communicate a direction of movement.</p>	<p>The Samsung Galaxy SII Epic 4G Touch's one or more modules further comprise instructions to display visual cues to communicate a direction of movement. In particular, the Samsung Galaxy SII Epic 4G Touch includes instructions to display an arrow on the phone's red missed call unlock image. The arrow is a visual cue that directs the user to slide the image to the right to unlock the phone and view missed call information. The presence of the arrow on the unlock image is shown below.</p>  <p>(Screenshot of the Samsung Epic 4G Touch missed call unlock image with the arrow circled in yellow)</p>

Claim 8	Infringement by the Samsung Galaxy SII Epic 4G Touch
	<p>Moreover, when the Samsung Galaxy SII Epic 4G Touch detects user contact with the red unlock image, it displays a second arrow in the predefined unlock region on the right side of the display, providing the user with an additional visual cue regarding the direction of movement.</p>  <p>The screenshot shows the lock screen of a Samsung Galaxy SII Epic 4G Touch. The background is a vibrant, abstract pattern of red, orange, and purple light streaks. At the top, the status bar displays various icons including a red arrow, a yellow arrow, a USB symbol, 3G signal strength, and the time 10:53 AM. In the center, there is a red rectangular area containing a white icon of a hand with a red dot, representing the unlock image. To the right of this area, a yellow circle highlights a white arrow pointing to the right, which serves as a second visual cue for the direction of movement. At the bottom, the time 10:53 AM is displayed in large white digits, followed by the date Thu. Jun. 7 and a battery icon with the text Charging (53%).</p> <p>(Screenshot of the Epic 4G Touch as it is detecting contact with the unlock image, displaying a second visual cue regarding direction of movement (arrow in yellow))</p>

Claim 8	Infringement by the Samsung Galaxy SII Epic 4G Touch
	<p>As a second example, the Samsung Galaxy SII Epic 4G Touch includes instructions to display an arrow on the phone's orange messaging unlock image on the locked home screen. The arrow is a visual cue that directs the user to slide the image to the left to unlock the phone and read the new text message. The presence of the arrow on the messaging unlock image is shown below.</p>  <p>(Image from the Samsung Epic 4G Touch with the arrow on the messaging unlock image circled in yellow)</p>

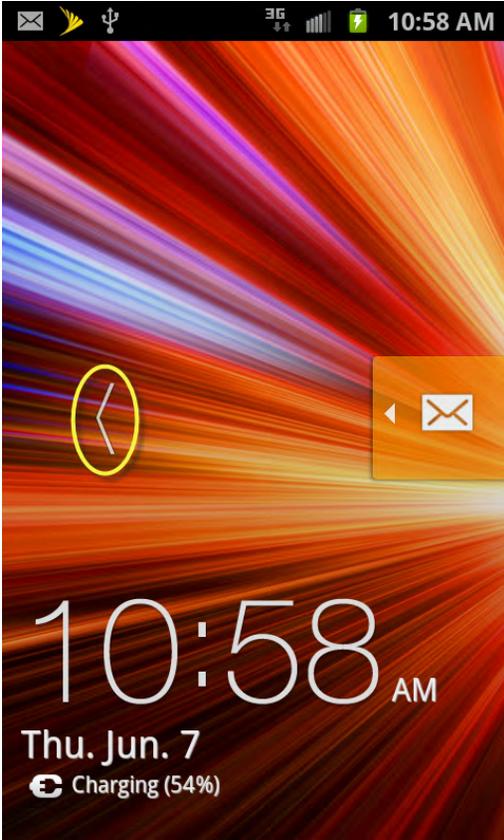
Claim 8	Infringement by the Samsung Galaxy SII Epic 4G Touch
	<p>Moreover, when the Samsung Galaxy SII Epic 4G Touch detects user contact with the orange messaging unlock image, it displays a second arrow in the predefined unlock region on the left side of the display, providing the user with an additional visual cue regarding the direction of movement.</p>  <p>The screenshot shows the lock screen of a Samsung Epic 4G Touch. At the top, there is a status bar with icons for email, a yellow arrow, USB, 3G signal, and a battery icon, along with the time 10:58 AM. The background is a vibrant, abstract pattern of orange, red, and purple light streaks. In the center, there is a large white clock displaying '10:58 AM' and the date 'Thu. Jun. 7'. Below the date, it says 'Charging (54%)'. On the left side, there is a yellow circle containing a white left-pointing arrow. On the right side, there is an orange rectangular button with a white left-pointing arrow and an envelope icon.</p> <p>(Screenshot of the Samsung Epic 4G Touch as it is detecting contact with the unlock image, displaying a second visual cue regarding direction of movement (arrow in yellow))</p>

EXHIBIT F9

GALAXY SII SKYROCKET

INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,046,721

INFRINGEMENT OF U.S. PATENT NO. 8,046,721 BY THE SAMSUNG GALAXY SII SKYROCKET (SGH-I727)

Claim 7 ¹	Infringement by the Samsung Galaxy SII Skyrocket
<p>7. A portable electronic device, comprising:²</p>	<p>To the extent that the preamble of claim 7 may be construed to be limiting, the Galaxy SII Skyrocket is a portable electronic device.</p> <p>Specifically, the Galaxy SII Skyrocket is a smartphone with a 4.5” Super AMOLED Plus screen. (See Samsung, Galaxy SII Skyrocket Android Smartphone, Features, http://www.samsung.com/us/mobile/cell-phones/SGH-I727MSAATT-features). It weighs 4.66 oz. and measures 5.15” (L) x 2.75” (W) x 0.37” (D). (<i>Id.</i>). Further, the Galaxy SII Skyrocket is “powered by a rechargeable Li-ion battery.” (Galaxy SII Skyrocket User Guide, at 7).</p> <div data-bbox="1010 643 1577 1154" data-label="Image"> </div> <p>(Samsung, Galaxy SII Skyrocket Android Smartphone, Gallery, http://www.samsung.com/us/mobile/cell-phones/SGH-I727MSAATT-gallery).</p>

¹ Pursuant to Apple Inc’s List of Accused Products and Asserted Patent Claims Pursuant To Court Order of March 8, 2013, see D.I. 394 & 467, Apple is only asserting claim 8 of U.S. Patent No. 8,046,721. Because claim 8 is a dependent claim of claim 7, the infringement chart for claim 7 is included for reference.

² Apple’s inclusion of citations related to any claim preamble in this infringement claim chart should not be interpreted as an admission that the preamble is limiting. Apple reserves the right to take the position that the claim preamble is limiting or not limiting on a claim-by-claim basis.

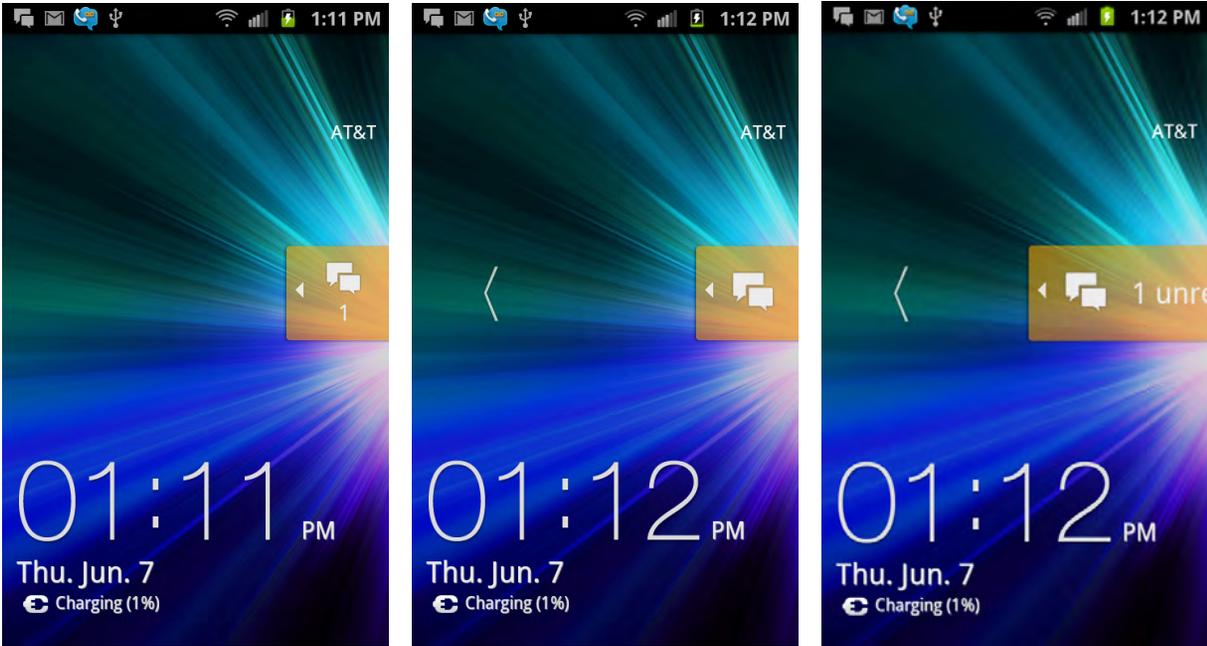
Claim 7 ¹	Infringement by the Samsung Galaxy SII Skyrocket
<p>a touch-sensitive display;</p>	<p>The Galaxy SII Skyrocket comprises a touch-sensitive display. In particular, according to the Galaxy SII Skyrocket’s User Guide, it has a touch screen that “provides quick responses to a variety of in-phone menus and options including applications and seven home screens.” (Galaxy SII Skyrocket User Manual, at 15). A user interacts with the Galaxy SII Skyrocket’s applications by, for example, tapping items on the touchscreen to select or launch them, touching and holding screen items to activate them, or “sweeping,” meaning “lightly drag[ging] your finger vertically or horizontally across the screen.” (See Galaxy SII Skyrocket User Guide, at 28).</p> <div data-bbox="1150 542 1444 1188" data-label="Image"> </div> <p>(Galaxy SII Skyrocket User Guide, at 30).</p> <p>The ’721 specification makes clear that a touch-sensitive display is the same as a touchscreen display. (See ’721 patent 1:25-26 (“Touch-sensitive displays (also known as ‘touch screens’ or ‘touchscreens’) are well known in the art.”)).</p>

Claim 7 ¹	Infringement by the Samsung Galaxy SII Skyrocket						
<p>memory;</p>	<p>The Galaxy SII Skyrocket comprises memory. Specifically, the Galaxy SII Skyrocket has 16GB of internal memory and supports up to a 32GB microSD card. (Samsung, Galaxy SII Skyrocket Android Smartphone, Features, http://www.samsung.com/us/mobile/cell-phones/SGH-I727MSAATT-features (last visited Apr. 20, 2012)).</p> <table border="1" data-bbox="688 418 1390 662"> <thead> <tr> <th colspan="2" data-bbox="688 418 1390 477">Memory</th> </tr> </thead> <tbody> <tr> <td data-bbox="688 477 1020 535">Internal Memory</td> <td data-bbox="1020 477 1390 535">16GB</td> </tr> <tr> <td data-bbox="688 535 1020 662">External Memory/microSD™ Capacity</td> <td data-bbox="1020 535 1390 662">microSD™ card</td> </tr> </tbody> </table> <p>(Samsung, Galaxy SII Skyrocket Android Smartphone, Specs, http://www.samsung.com/us/mobile/cell-phones/SGH-I727MSAATT-specs).</p>	Memory		Internal Memory	16GB	External Memory/microSD™ Capacity	microSD™ card
Memory							
Internal Memory	16GB						
External Memory/microSD™ Capacity	microSD™ card						
<p>one or more processors;</p>	<p>The Galaxy SII Skyrocket comprises one or more processors. Specifically, the Galaxy SII Skyrocket has a 1.5 GHz dual-core processor. (Samsung, Galaxy SII Skyrocket Android Smartphone, Specs, http://www.samsung.com/us/mobile/cell-phones/SGH-I727MSAATT-specs).</p> <p>A processor that makes lightning look slow.</p> <p>Your Galaxy S II Skyrocket has an astonishingly powerful 1.5 GHz dual core processor to keep all your videos, games and info fast and smooth. Your laptop may feel jealous.</p> <p>(Samsung, Galaxy SII Skyrocket Android Smartphone, Features, http://www.samsung.com/us/mobile/cell-phones/SGH-I727MSAATT-features).</p>						
<p>one or more modules stored in the memory and configured for execution by the one or more processors, the one or more modules including instructions:</p>	<p>The Galaxy SII Skyrocket comprises one or more modules stored in the memory and configured for execution by the one or more processors, the one or more modules including instructions.</p> <p>The Galaxy SII Skyrocket contains, among other modules, a contact/motion module in its memory that is configured for execution by the Galaxy SII Skyrocket’s processor. This module allows the Galaxy SII Skyrocket to detect contact with the touchscreen. The Galaxy SII</p>						

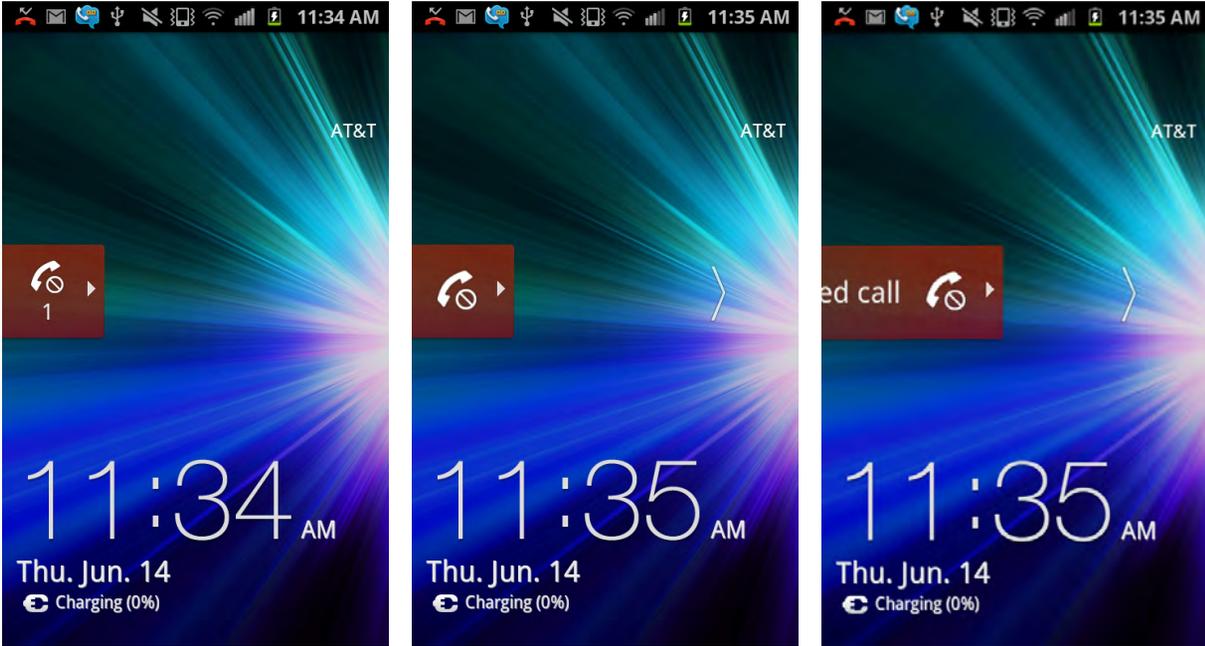
Claim 7 ¹	Infringement by the Samsung Galaxy SII Skyrocket
	<p>Skyrocket discloses some of those contacts that the contact/motion module detects, as shown below.</p> <p>Tap</p> <p>Lightly touch items to select or launch them. For example:</p> <ul style="list-style-type: none">• Tap the on screen keyboard to enter characters or text.• Tap a menu item to select it.• Tap an application's icon to launch the application. <p>Touch and Hold</p> <p>Activate on-screen items by a touch and hold gesture. For example:</p> <ul style="list-style-type: none">• Touch and hold a widget on the home screen to move it.• Touch and hold on a field to display a pop-up menu of options. <p>Sweep</p> <p>To sweep, lightly drag your finger vertically or horizontally across the screen. Use sweep when:</p> <ul style="list-style-type: none">• Unlocking the screen• Scrolling through the Home screen or a menu <p>(Galaxy SII Skyrocket User Manual, at 28).</p>

Claim 7 ¹	Infringement by the Samsung Galaxy SII Skyrocket
<p>to detect a contact with the touch-sensitive display at a first predefined location corresponding to the unlock image;</p>	<p>The Galaxy SII Skyrocket's one or more modules include instructions to detect a contact with the touch-sensitive display at a first predefined location corresponding to the unlock image. Specifically, when the Galaxy SII Skyrocket receives a call, it displays the caller's phone number and an unlock image on the incoming call screen. (<i>See</i> Galaxy SII Skyrocket, at 42). The unlock image, which is a green icon containing the representation of a phone, appears at a predefined location at the left side of the Galaxy SII Skyrocket's touchscreen, as shown below. (<i>Id.</i>). The Galaxy SII Skyrocket detects contact with this unlock image as a user touches and slides the image to answer the call. (<i>Id.</i>).</p> <p>Answering a Call</p> <p>When a call is received the phone rings and displays the caller's phone number, or name if stored in the Address Book.</p> <ol style="list-style-type: none"> At the incoming call screen: <ul style="list-style-type: none"> Touch and slide  to the right to answer the call. <div style="text-align: center;">  </div>

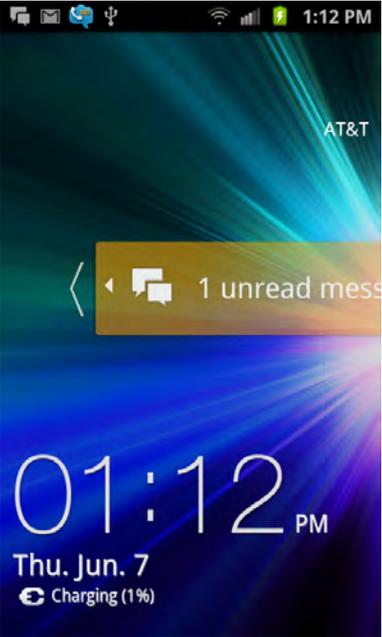
Claim 7 ¹	Infringement by the Samsung Galaxy SII Skyrocket
	<p>(Representation from Galaxy SII Skyrocket User Guide showing user touching unlock icon. <i>Id.</i>) As a second example, when a locked Galaxy SII Skyrocket receives a text message through it Messaging application, it displays an unlock image on the home screen, as shown below.</p>  <p>The screenshot shows the home screen of a Samsung Galaxy SII Skyrocket. The background is a blue and green abstract design. At the top, the status bar shows icons for messages, email, messaging, USB, Wi-Fi, signal strength, and battery, along with the time 1:11 PM. The carrier name 'AT&T' is visible in the upper right. A large orange unlock icon is centered on the screen, featuring a white envelope icon and the number '1'. At the bottom, the time '01:11 PM' is displayed in large white digits, followed by the date 'Thu. Jun. 7' and a charging indicator showing 'Charging (1%)'.</p>

Claim 7 ¹	Infringement by the Samsung Galaxy SII Skyrocket
	<p>The unlock image, which is an orange icon containing a representation of the Messaging application, appears a predefined location at the right side of the Galaxy SII Skyrocket's locked touchscreen, as shown above. The Galaxy SII Skyrocket detects contact with this unlock image as a user touches and slides the image to the left to unlock the phone and view the text message.</p>  <p>(Screenshots of the Galaxy SII Skyrocket detecting contact with the messaging unlock image (middle) as a user touches the image and slides it to the left)</p> <p>As is shown in the middle screenshot above, when the Galaxy SII Skyrocket detects contact with the unlock image, it displays a white arrow on the left side of the locked home screen.</p>

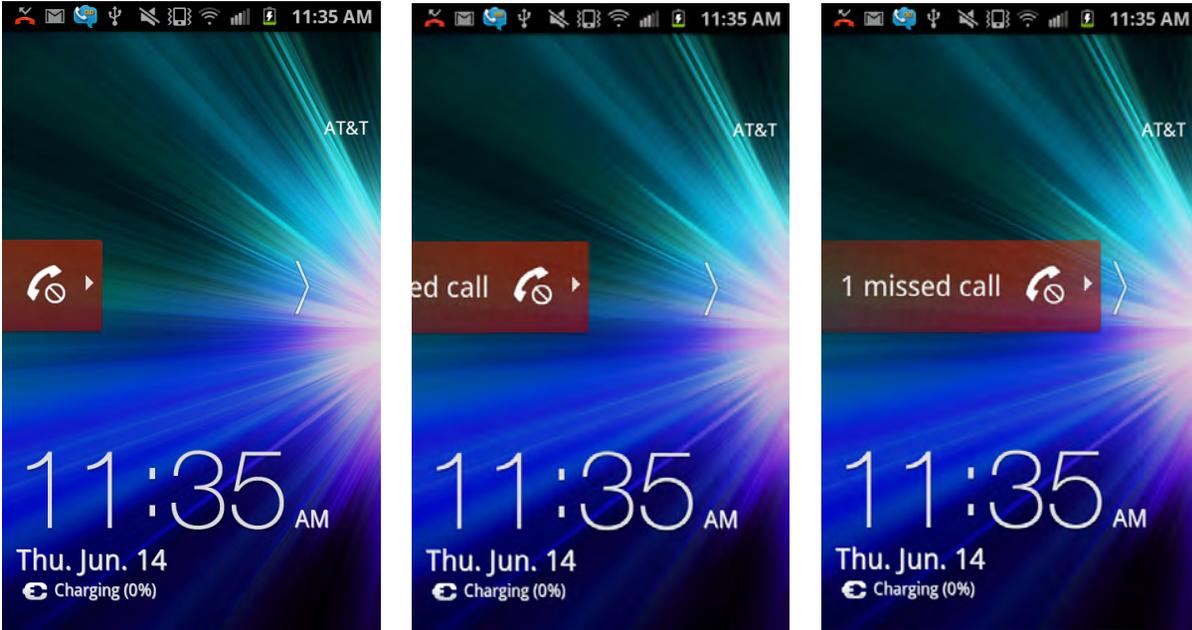
Claim 7 ¹	Infringement by the Samsung Galaxy SII Skyrocket
	<p>As a third example, when the user misses an incoming call, the Samsung Galaxy SII Skyrocket displays an unlock image on the locked home screen. The unlock image, which is a red icon containing the representation of a phone, appears at a predefined location at the left side of the Samsung Galaxy SII Skyrocket's touchscreen, as shown in the screenshot below.</p>  <p>(Screenshot of the locked home screen for the Samsung Galaxy SII Skyrocket, displaying the missed call unlock image at a predefined location at the left side of the touchscreen)</p>

Claim 7 ¹	Infringement by the Samsung Galaxy SII Skyrocket
	<p data-bbox="680 237 1860 302">The Samsung Galaxy SII Skyrocket detects contact with this unlock image as a user touches and then slides the image to the right to unlock the phone and view missed call information.</p> <div data-bbox="680 354 1885 1000"></div> <p data-bbox="680 1040 1902 1105">(Screenshots of the Samsung Galaxy SII Skyrocket detecting a contact with the unlock image on the locked home screen (middle) as the user slides the unlock image to the right)</p> <p data-bbox="680 1149 1902 1252">As is shown in the middle screenshot above, when the Samsung Galaxy SII Skyrocket detects a contact with the red unlock image, an arrow appears in a predefined location at the right side of the screen.</p>

Claim 7 ¹	Infringement by the Samsung Galaxy SII Skyrocket
<p>to continuously move the unlock image on the touch-sensitive display in accordance with movement of the detected contact while continuous contact with the touch-sensitive display is maintained, wherein the unlock image is a graphical, interactive user-interface object with which a user interacts in order to unlock the device; and</p>	<p>The Galaxy SII Skyrocket's one or more modules include instructions to continuously move the unlock image on the touch-sensitive display in accordance with movement of the detected contact while continuous contact with the touch-sensitive display is maintained, wherein the unlock image is a graphical, interactive user-interface object with which a user interacts in order to unlock the device.</p> <p>Specifically, as the user touches and slides the unlock image on the incoming call screen, the Galaxy SII Skyrocket includes instructions to continuously move the unlock image from left to right on the touchscreen display provided the user maintains contact with the screen. (See Galaxy SII Skyrocket User Manual, at 42).</p> <div data-bbox="1005 634 1619 1222" data-label="Image"></div> <p>(Representation from Galaxy SII Skyrocket User Guide showing user touching and sliding the unlock icon from left to right to unlock the phone. <i>Id.</i>)</p>

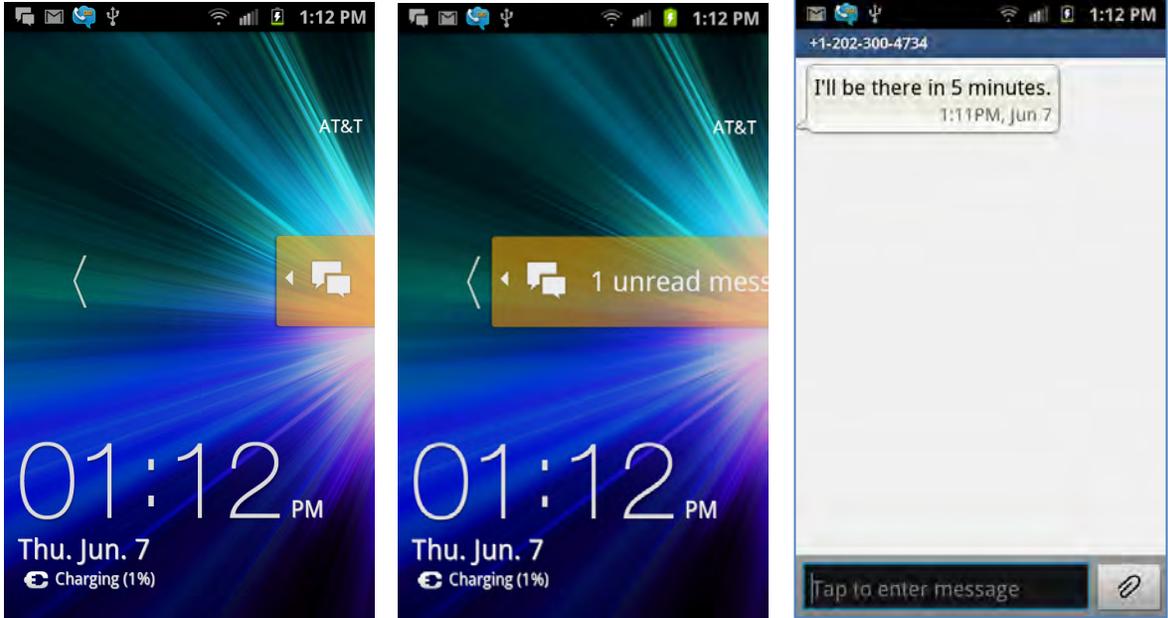
Claim 7 ¹	Infringement by the Samsung Galaxy SII Skyrocket
	<p>Further, at the incoming call screen, the Galaxy SII Skyrocket’s unlock image is a graphical object, namely a green icon containing a representation of a phone, that the user touches and then slides across the touchscreen to unlock the phone. (See Galaxy SII Skyrocket User Guide, at 42).</p> <p style="text-align: center;"> <ul style="list-style-type: none"> • Touch and slide  to the right to answer the call. </p> <p>(Id.).</p> <p>As a second example, as the user touches and slides the messaging unlock image on the locked home screen, the Galaxy SII Skyrocket continuously moves the unlock image from right to left on the touchscreen display while the user maintains contact with the screen, as shown below.</p> <div style="display: flex; justify-content: space-around;">    </div> <p>(Screenshots of the Galaxy SII Skyrocket continuously moving the messaging unlock image across the screen as the user slides her finger to the left to unlock the phone)</p>

Claim 7 ¹	Infringement by the Samsung Galaxy SII Skyrocket
	<p>Further, at the locked home screen, the Galaxy SII Skyrocket's messaging unlock image is a graphical object, namely an orange icon containing the representation of a text message, that the user touches and then slides across the touchscreen to unlock the phone and view the new text message.</p>  <p>(Screenshot of the Galaxy SII Skyrocket's locked home screen with the messaging unlock image on the right)</p>

Claim 7 ¹	Infringement by the Samsung Galaxy SII Skyrocket
	<p data-bbox="680 237 1871 337">As a third example, as the user touches and slides the missed call unlock image on the locked home screen, the Samsung Galaxy SII Skyrocket continuously moves the unlock image from left to right while the user maintains contact with the screen, as shown below.</p> <div data-bbox="695 370 1887 1000">The image consists of three sequential screenshots of a Samsung Galaxy SII Skyrocket locked home screen. Each screenshot shows a dark blue background with a bright light source on the right, creating a lens flare effect. At the top, the status bar shows the time as 11:35 AM and the carrier as AT&T. The main display area features a large digital clock showing 11:35 AM and the date Thu. Jun. 14. Below the date, it indicates 'Charging (0%)'. A notification bar at the bottom of the screen displays a missed call icon and the text '1 missed call'. The notification bar is shown in three positions: first on the far left, then sliding towards the center, and finally on the far right, demonstrating the continuous movement of the unlock image as the user slides it.</div> <p data-bbox="688 1040 1906 1110">(Screenshots showing the Samsung Galaxy SII Skyrocket continuously moving the unlock image as a user slides it to the right to unlock the phone)</p>

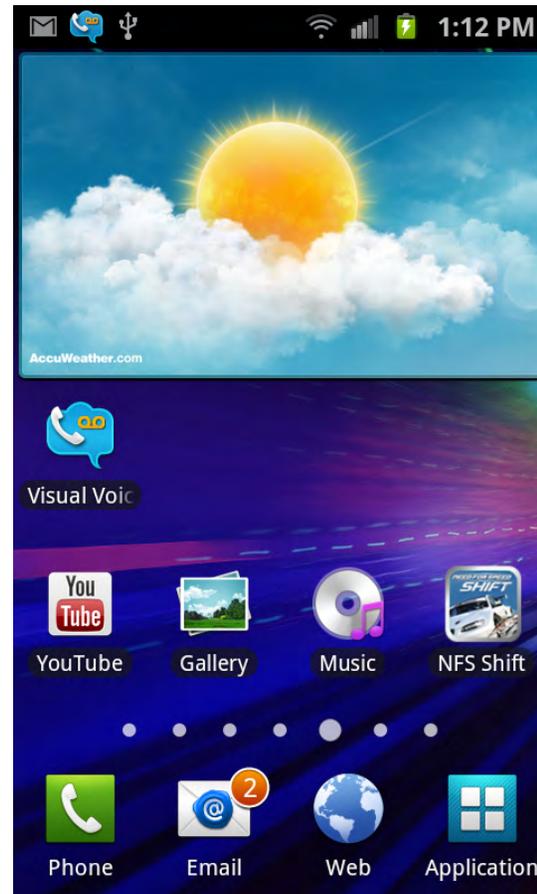
Claim 7 ¹	Infringement by the Samsung Galaxy SII Skyrocket
	<p data-bbox="678 237 1877 342">Further, the Samsung Galaxy Skyrocket's missed call unlock image is a graphical, interactive user-interface object, namely a red icon containing a representation of a phone, that the user touches and then slides across the touchscreen to unlock the phone, as shown below.</p> <div data-bbox="1060 375 1528 1154">A screenshot of a Samsung Galaxy SII Skyrocket home screen. The background is a blue and purple abstract light pattern. At the top, the status bar shows various icons and the time 11:34 AM. Below the status bar, the AT&T logo is visible. In the center-left, there is a red square notification icon with a white phone handset and a red prohibition sign, and the number '1' below it. At the bottom, the time '11:34 AM' is displayed in large white digits, followed by 'Thu. Jun. 14' and 'Charging (0%)' with a battery icon.</div> <p data-bbox="716 1198 1871 1263">(Screenshot showing the missed call unlock image on the locked Samsung Galaxy SII Skyrocket home screen)</p>

Claim 7 ¹	Infringement by the Samsung Galaxy SII Skyrocket
<p>to unlock the hand-held electronic device if the unlock image is moved from the first predefined location on the touch screen to a predefined unlock region on the touch-sensitive display.</p>	<p>The Galaxy SII Skyrocket’s one or more modules include instructions to unlock the hand-held electronic device if the unlock image is moved from the first predefined location on the touch screen to a predefined unlock region on the touch-sensitive display.</p> <p>Specifically, the Galaxy SII Skyrocket includes instructions to unlock the phone to permit the user to answer an incoming phone call. When the user slides the green unlock image from its original location at the left side of the touch-sensitive display to a predefined unlock region on the right side of the touch-sensitive display, the phone unlocks to facilitate the call. (See Galaxy SII Skyrocket User Guide, at 42).</p> <div data-bbox="989 597 1646 1230" data-label="Image"> </div> <p>(Representation of a user sliding the green unlock image from a first pre-defined location at the left side of the Galaxy SII Skyrocket touchscreen to the unlock region in order to unlock the phone to answer an incoming call. See Galaxy SII Skyrocket User Guide, at 42.)</p> <p>After the user answers and then terminates the call, the Galaxy SII Skyrocket remains unlocked for the user to operate. Thus, the phone is a in a user-interface unlock state.</p>

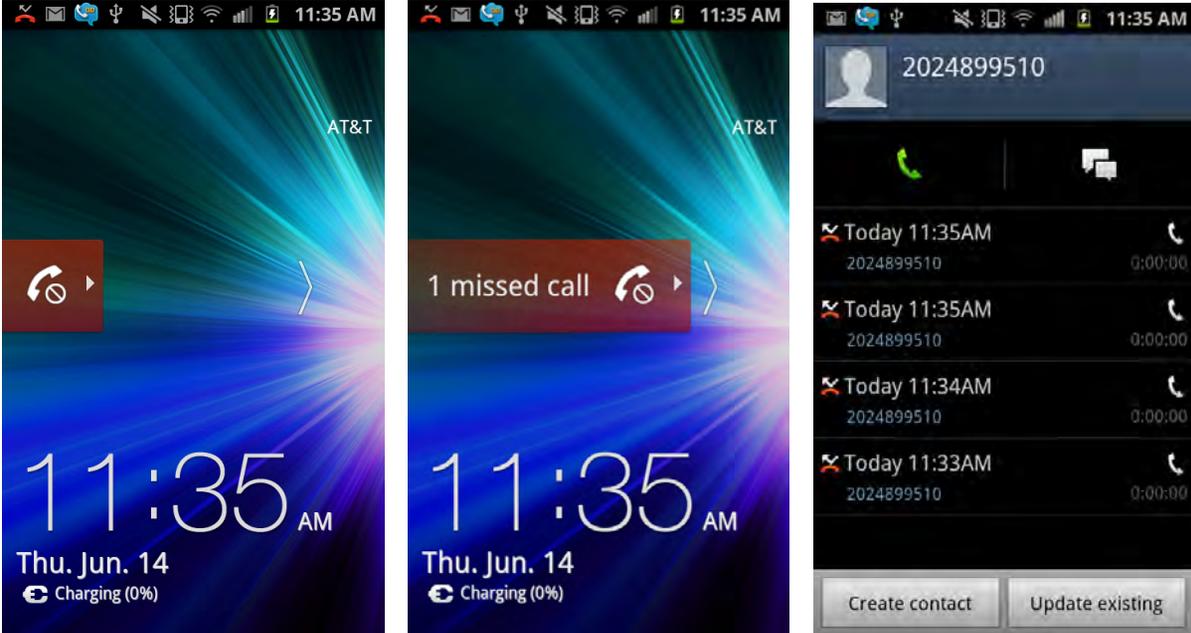
Claim 7 ¹	Infringement by the Samsung Galaxy SII Skyrocket
	<p data-bbox="680 237 1877 375">As a second example, the Galaxy SII Skyrocket unlocks and opens the messaging application when the user slides the orange messaging unlock image from its original location at the right side of the touch-sensitive display to a predefined unlock region on the left side of the touch-sensitive display, as shown below.</p> <div data-bbox="709 418 1877 1036"></div> <p data-bbox="695 1078 1892 1146">(Screenshots of the Galaxy SII Skyrocket showing the messaging unlock image sliding to the left and the phone unlocking as image reaches the predefined unlock region)</p>

Claim 7¹**Infringement by the Samsung Galaxy SII Skyrocket**

After the user unlocks the phone by sliding the orange messaging unlock image to the predefined unlock region, all applications on the phone are available to the user. Thus, the phone is in a user-interface unlock state.

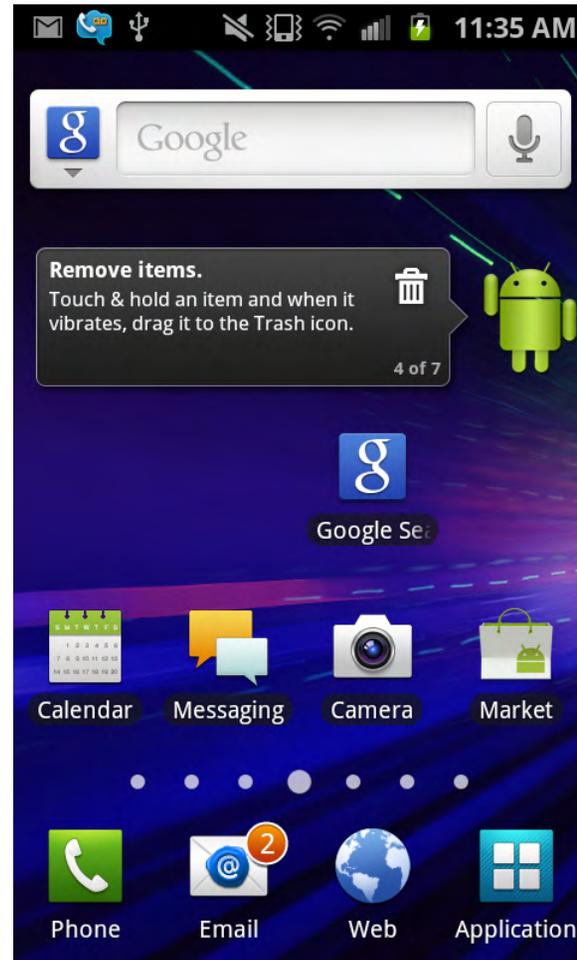


(Screenshot of the Galaxy SII Skyrocket after the user exits the Messaging application)

Claim 7 ¹	Infringement by the Samsung Galaxy SII Skyrocket
	<p>As a third example, the Samsung Galaxy SII Skyrocket unlocks to permit the user to view missed call information when the user slides the red missed call unlock image from its original, predefined location at the left side of the touch-sensitive display to a predefined unlock region on the right side of the touch-sensitive display. The predefined unlock region is denoted by a large white arrow, as shown below.</p>  <p>(Screenshots of the Samsung Galaxy SII Skyrocket showing the unlock image sliding to the right as a user unlocks the phone to view missed call information)</p>

Claim 7¹**Infringement by the Samsung Galaxy SII Skyrocket**

After the user unlocks the phone using the missed call unlock image, all applications on the phone are available to the user. Thus, the phone is in a user-interface unlock state.



(Screenshot of the Samsung Galaxy SII Skyrocket after the user exits the missed call log)

Claim 8	Infringement by the Galaxy SII Skyrocket
<p>8. The device of claim 7, further comprising instructions to display visual cues to communicate a direction of movement.</p>	<p>The Galaxy SII Skyrocket's one or more modules further comprise instructions to display visual cues to communicate a direction of movement. For example, the Galaxy SII Skyrocket displays an arrow on the phone's green unlock image on the incoming call screen. (See Galaxy SII Skyrocket User Guide, at 42). The arrow is a visual cue that directs the user to slide the image to the right to answer an incoming call. (<i>Id.</i>). The presence of the arrow on the unlock image is shown below.</p> <p>1. At the incoming call screen:</p> <ul style="list-style-type: none">• Touch and slide  to the right to answer the call.  <p>(Image from the Galaxy SII Skyrocket User Guide with the arrow circled in yellow. See <i>id.</i>)</p>

Claim 8	Infringement by the Galaxy SII Skyrocket
	<p>As a second example, the Galaxy SII Skyrocket displays an arrow on the phone's orange messaging unlock image on the locked home screen. The arrow is a visual cue that directs the user to slide the image to the left to unlock the phone and view a new text message. The presence of the arrow on the unlock image is shown below.</p>  <p>(Screenshot of the Galaxy SII Skyrocket showing the presence of the arrow on the messaging unlock image)</p>

Claim 8**Infringement by the Galaxy SII Skyrocket**

Moreover, when the Samsung Galaxy SII Skyrocket detects user contact with the orange messaging unlock image, it displays a second arrow in the predefined unlock region on the left side of the display, providing the user with an additional visual cue regarding the direction of movement.



(Screenshot of the Samsung Galaxy SII Skyrocket as it is detecting contact with the unlock image, displaying a second visual cue regarding direction of movement)

Claim 8	Infringement by the Galaxy SII Skyrocket
	<p>As a third example, the Samsung Galaxy SII Skyrocket displays an arrow on the phone's red missed call unlock image on the locked home screen, as shown below. The arrow is a visual cue that directs the user to slide the image to the right to unlock the phone and view the missed call log. The presence of the arrow on the unlock image is shown below.</p> <div data-bbox="1060 459 1528 1240" data-label="Image">A screenshot of the Samsung Galaxy SII Skyrocket home screen. The background is a blue and purple abstract light pattern. At the top, the status bar shows various icons and the time 11:34 AM. Below the status bar, the AT&T logo is visible. In the center, there is a red square notification for a missed call, featuring a white phone icon with a red slash and a white arrow pointing to the right, with the number '1' below it. At the bottom, the time 11:34 AM and date Thu. Jun. 14 are displayed, along with a charging icon and 'Charging (0%)'.</div> <p>(Screenshot of the Galaxy SII Skyrocket showing the presence of the arrow on the missed call unlock image)</p>

Claim 8	Infringement by the Galaxy SII Skyrocket
	<p data-bbox="678 250 1877 354">Moreover, when the Samsung Galaxy SII Skyrocket detects user contact with the red unlock image, it displays a second arrow in the predefined unlock region on the right side of the display, providing the user with an additional visual cue regarding the direction of movement.</p>  <p data-bbox="730 1239 1860 1308">(Screenshot of the Samsung Galaxy SII Skyrocket as it is detecting contact with the unlock image, displaying a second visual cue regarding direction of movement)</p>