

EXHIBIT A1

ADMIRE

INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172

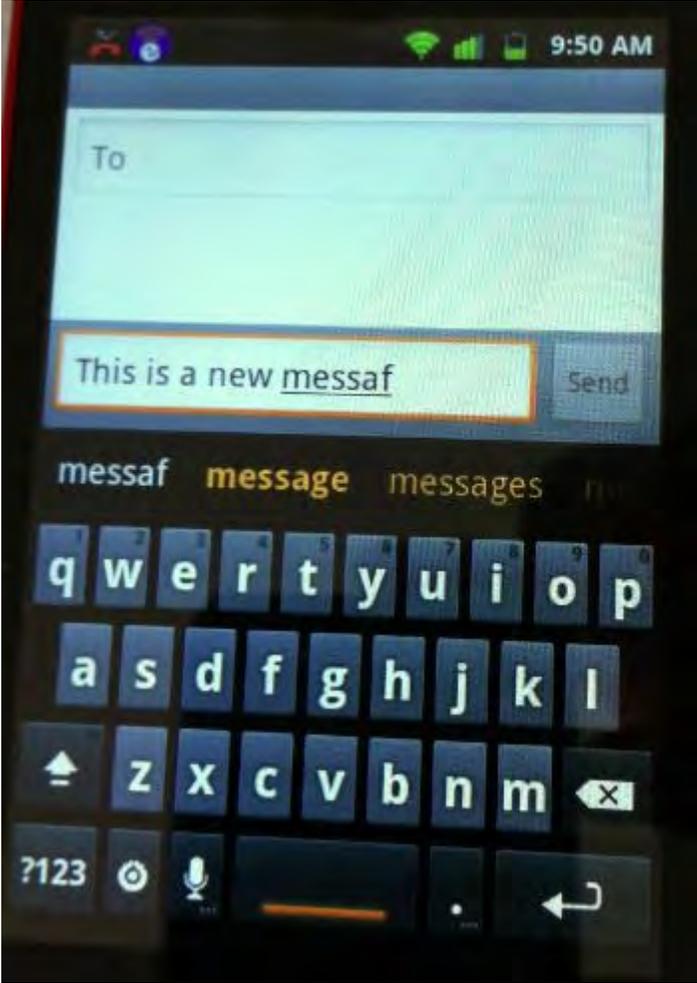
Infringement by Samsung Admire of U.S. Patent No. 8,074,172

Claim 18 of the '172 Patent	Infringement by Samsung Admire										
<p>18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising¹:</p>	<p>To the extent that the preamble may be construed to be limiting, the Samsung Admire provides a graphical user interface on a portable electronic device, as evidenced by the presence of a CPU, memory devices, and a display device.</p> <p>The Samsung Admire has an 800 MHz processor. <i>See</i> Admire, Specifications, <i>available at</i> http://www.samsung.com/us/mobile/cell-phones/SCH-R720ZRAXAR-specs (“Specifications”).</p> <table border="1" data-bbox="562 636 1205 782"> <thead> <tr> <th colspan="2">CPU / Processor</th> </tr> </thead> <tbody> <tr> <td>Processor Speed, Type</td> <td>800MHz</td> </tr> </tbody> </table> <p>The Samsung Admire also has storage as indicated in the Specifications and indicated below. <i>Id.</i></p> <table border="1" data-bbox="562 883 1157 1130"> <thead> <tr> <th colspan="2">Memory</th> </tr> </thead> <tbody> <tr> <td>Internal Memory</td> <td>125MB</td> </tr> <tr> <td>External Memory/microSD™ Capacity</td> <td>microSD™ card</td> </tr> </tbody> </table>	CPU / Processor		Processor Speed, Type	800MHz	Memory		Internal Memory	125MB	External Memory/microSD™ Capacity	microSD™ card
CPU / Processor											
Processor Speed, Type	800MHz										
Memory											
Internal Memory	125MB										
External Memory/microSD™ Capacity	microSD™ card										

¹ Apple's inclusion of citations related to the claim preamble in this claim chart should not be interpreted as an admission that the preamble is limiting. Apple reserves the right to take the position that claim preambles are limiting or not limiting on a claim-by-claim basis.

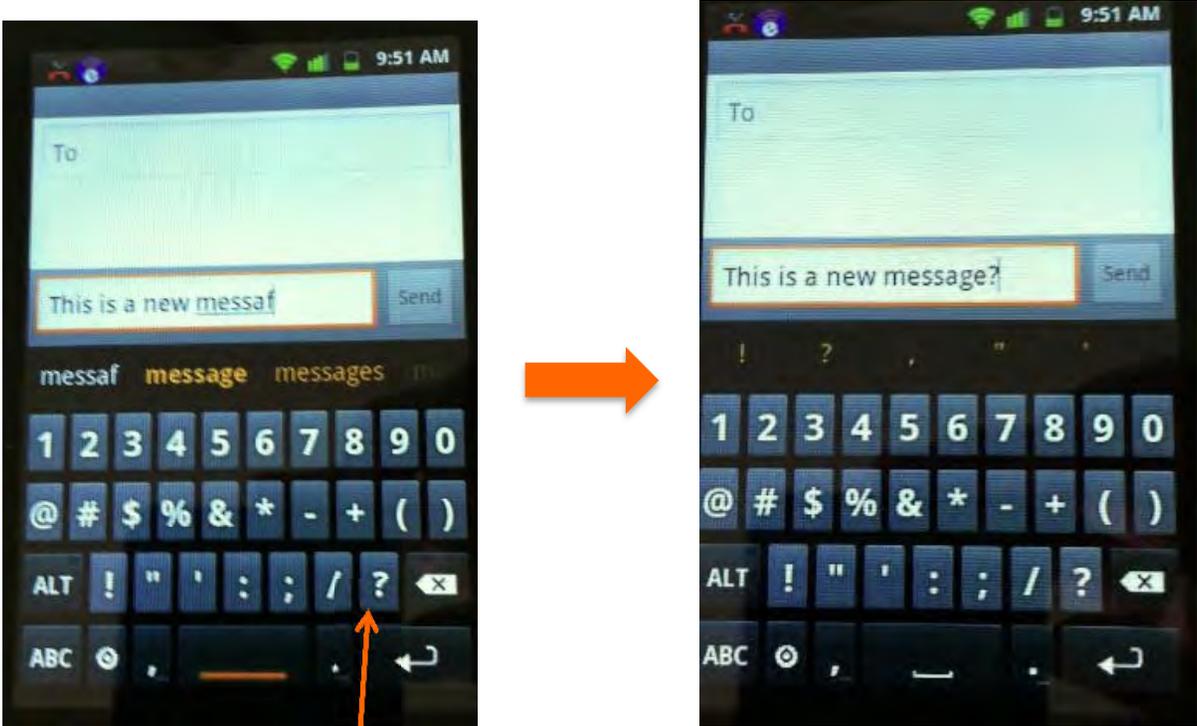
Claim 18 of the '172 Patent	Infringement by Samsung Admire								
	<p data-bbox="464 402 1965 472">As shown below and in the Specifications, the Samsung Admire’s CPU is coupled to a 3.5 inch, 320x480 Pixel 262K TFT touch screen display. <i>See id.</i></p> <div data-bbox="464 932 1115 1239"> <table border="1"> <thead> <tr> <th colspan="2" data-bbox="470 937 1108 992">Display</th> </tr> </thead> <tbody> <tr> <td data-bbox="470 995 781 1084">Main Display Resolution</td> <td data-bbox="785 995 1108 1084">320x480 Pixel</td> </tr> <tr> <td data-bbox="470 1088 781 1146">Main Display Size</td> <td data-bbox="785 1088 1108 1146">3.5"</td> </tr> <tr> <td data-bbox="470 1149 781 1239">Main Display Technology</td> <td data-bbox="785 1149 1108 1239">262K TFT</td> </tr> </tbody> </table> </div> <div data-bbox="1276 488 1703 1243">  </div>	Display		Main Display Resolution	320x480 Pixel	Main Display Size	3.5"	Main Display Technology	262K TFT
Display									
Main Display Resolution	320x480 Pixel								
Main Display Size	3.5"								
Main Display Technology	262K TFT								

Claim 18 of the '172 Patent	Infringement by Samsung Admire
	<p>The Samsung Admire provides a graphical user interface and a virtual keyboard on a touch screen, as shown below:</p>

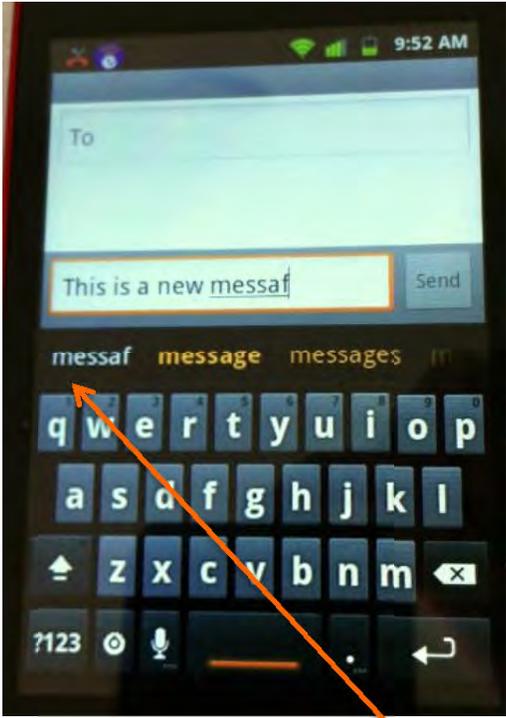
Claim 18 of the '172 Patent	Infringement by Samsung Admire
	
<p>first area of the touch screen</p>	<p>The Samsung Admire displays a current character string being input by a user with the keyboard in a first area of the touch screen display. For example, in the Samsung Admire Messaging App, as the user the inputs the character string</p>

Claim 18 of the '172 Patent	Infringement by Samsung Admire
<p>display that displays a current character string being input by a user with the keyboard;</p>	<p>“messaf,” the Samsung Admire displays “messaf” in a first area of the touch screen display (the rectangular-shaped area of the screen outlined in orange), which contains the text “This is a new messaf,” as shown in the screenshot below:</p>  <p>Other applications, such as the Email, Gmail, and Talk applications, provide the same functionality.</p>
<p>in a second area</p>	<p>In a second area of the touch screen display, the current string and a suggested replacement string are displayed.</p>

<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Admire</p>
<p>of the touch screen display separate from the first area that displays the current character string or a portion thereof and a suggested replacement character string for the current character string;</p>	<div data-bbox="451 332 1018 1128" data-label="Image"> </div> <p>The second area is located below the first area and separated by a gray border.</p> <p>Other applications, such as the Email, Gmail, and Talk applications, provide the same functionality.</p>

<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Admire</p>
<p>wherein; the current character string in the first area is replaced with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter;</p>	<p>The Samsung Admire replaces the current character string in the first area with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter. For example, in the screenshots below, after the user selects the “?” key on the keyboard, a delimiter, the current character string “messaf” displayed in the first area is replaced with the suggested replacement “message.”</p> <div style="text-align: center;">  </div> <p style="text-align: center; color: orange; font-weight: bold;">User selects “?”</p> <p>Other applications, such as the Email, Gmail, and Talk applications, provide the same functionality.</p>

Claim 18 of the '172 Patent	Infringement by Samsung Admire
<p>the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area; and</p>	<p>The Samsung Admire replaces the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area. For example, in the screenshots below, after the user performs a first gesture of pressing on the suggested replacement string “message” displayed in the second area, the current character string displayed in the first area is replaced by the suggested string.</p> <div style="display: flex; align-items: center; justify-content: center;">  ➔  </div> <p style="color: orange; text-align: center; margin-top: 10px;">User selects “message”</p>

Claim 18 of the '172 Patent	Infringement by Samsung Admire
	Other applications, such as the Email, Gmail, and Talk applications, provide the same functionality.
<p>the current character string in the first area is kept if the user performs a second gesture in the second area on the current character string or the portion thereof displayed in the second area.</p>	<p>If the user performs a second gesture of pressing on the current character string, the current character string is kept. For example, in the screenshots below, after the user taps on the “messaf” displayed in the second area, “messaf” is left as is in the first area of the display.</p> <div style="display: flex; align-items: center; justify-content: center;">  <div style="margin: 0 20px; font-size: 2em; color: orange;">➔</div>  </div> <p style="text-align: center; color: orange; font-weight: bold;">User selects “messaf”</p>

Claim 18 of the '172 Patent	Infringement by Samsung Admire
	Other applications, such as the Email, Gmail, and Talk applications, provide the same functionality.

EXHIBIT A2

CAPTIVATE GLIDE

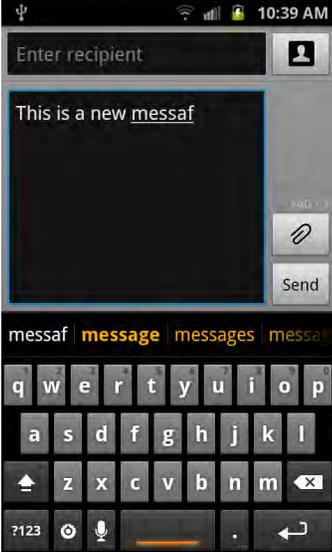
INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172

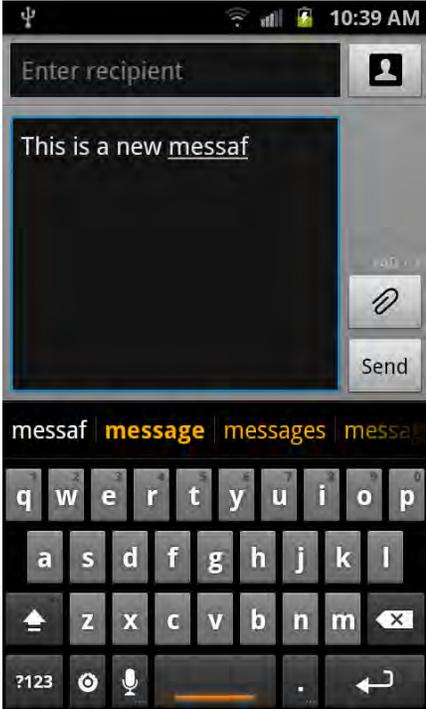
Infringement by Samsung Captivate Glide of U.S. Patent No. 8,074,172

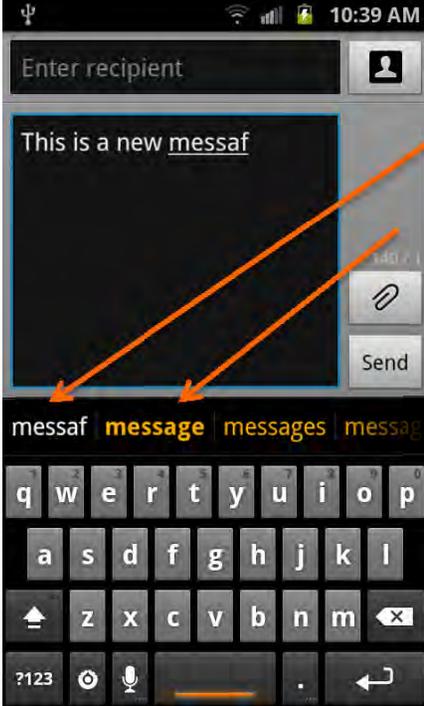
Claim 18 of the '172 Patent	Infringement by Samsung Captivate Glide								
<p>18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising¹:</p>	<p>To the extent that the preamble may be construed to be limiting, the Samsung Captivate Glide provides a graphical user interface on a portable electronic device, as evidenced by the presence of a CPU, memory devices, and a display device.</p> <p>The Samsung Captivate Glide has a 1 GHz dual core processor. <i>See Captivate Glide, Specifications, available at http://www.samsung.com/us/mobile/cell-phones/SGH-I927ZKAATT-specs.</i></p> <table border="1" data-bbox="470 638 1276 786"> <thead> <tr> <th colspan="2" data-bbox="470 638 1276 695">CPU</th> </tr> </thead> <tbody> <tr> <td data-bbox="470 698 795 786">Processor Speed, Type</td> <td data-bbox="800 698 1276 786">1GHz Dual-core Tegra™ 2 Processor</td> </tr> </tbody> </table> <p>The Samsung Captivate Glide also has memory as indicated in the Specifications and indicated below. <i>Id.</i></p> <table border="1" data-bbox="478 906 1150 1024"> <thead> <tr> <th colspan="2" data-bbox="478 906 1150 963">Memory</th> </tr> </thead> <tbody> <tr> <td data-bbox="478 966 808 1024">Internal Memory</td> <td data-bbox="812 966 1150 1024">1GB RAM/1GB ROM/8GB</td> </tr> </tbody> </table>	CPU		Processor Speed, Type	1GHz Dual-core Tegra™ 2 Processor	Memory		Internal Memory	1GB RAM/1GB ROM/8GB
CPU									
Processor Speed, Type	1GHz Dual-core Tegra™ 2 Processor								
Memory									
Internal Memory	1GB RAM/1GB ROM/8GB								

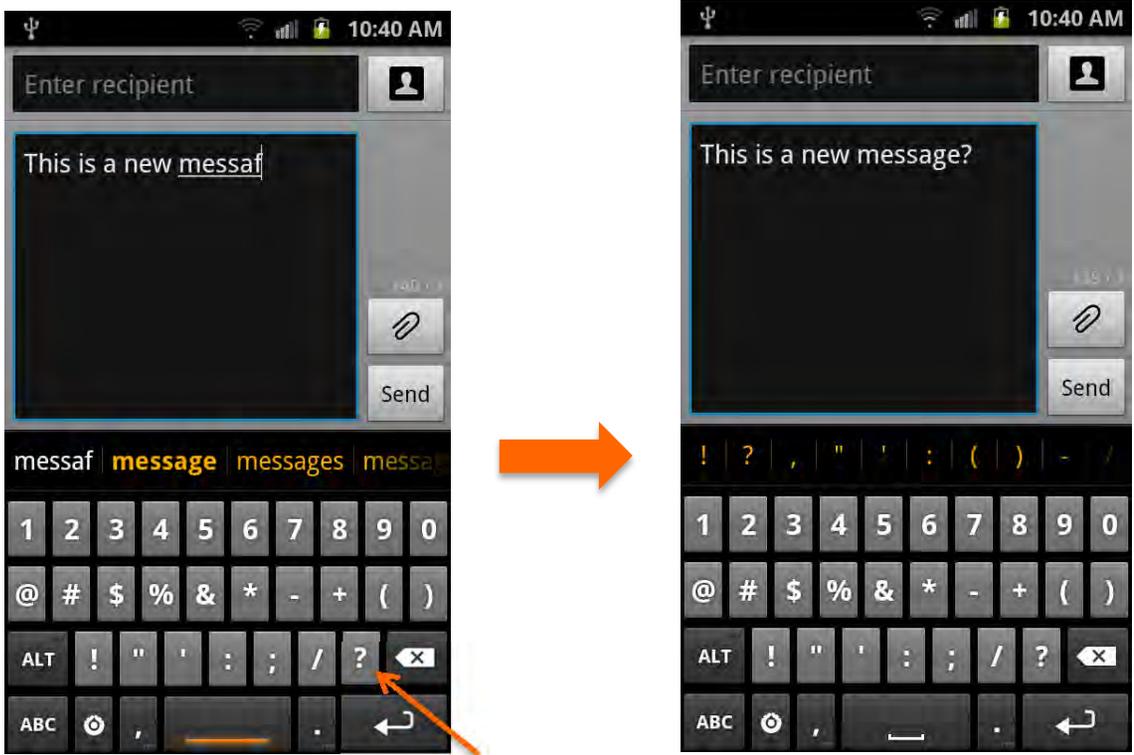
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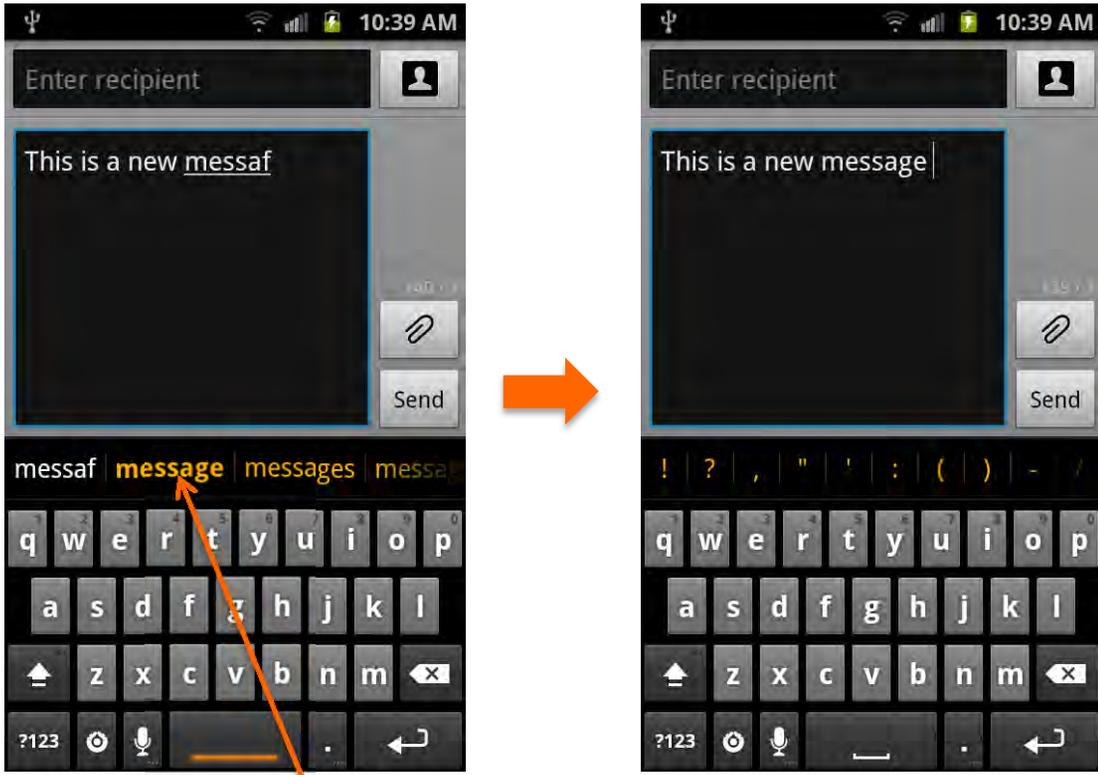
Claim 18 of the '172 Patent	Infringement by Samsung Captivate Glide								
	<p>As shown below and in the Specifications, the Samsung Captivate Glide's CPU is coupled to a 4.0 inch, 480 by 800 pixel color Super AMOLED touch screen display. <i>See id.</i></p> <table border="1" data-bbox="468 488 1098 792"> <thead> <tr> <th colspan="2" data-bbox="468 488 1098 548">Display</th> </tr> </thead> <tbody> <tr> <td data-bbox="468 548 800 639">Main Display Resolution</td> <td data-bbox="804 548 1098 639">480x800 Pixels</td> </tr> <tr> <td data-bbox="468 639 800 699">Main Display Size</td> <td data-bbox="804 639 1098 699">4.0"</td> </tr> <tr> <td data-bbox="468 699 800 792">Main Display Technology</td> <td data-bbox="804 699 1098 792">Super AMOLED™</td> </tr> </tbody> </table>  <p>The Samsung Captivate Glide provides a graphical user interface and a virtual keyboard on a touch screen, as shown below:</p>	Display		Main Display Resolution	480x800 Pixels	Main Display Size	4.0"	Main Display Technology	Super AMOLED™
Display									
Main Display Resolution	480x800 Pixels								
Main Display Size	4.0"								
Main Display Technology	Super AMOLED™								

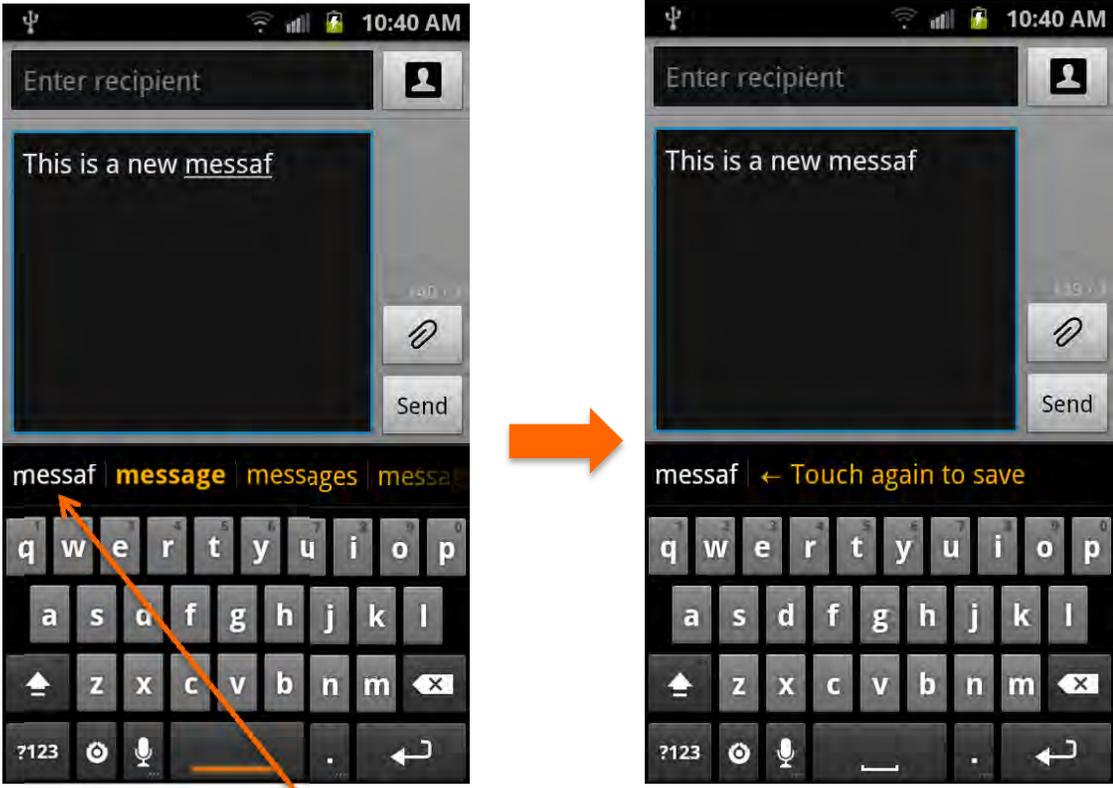
Claim 18 of the '172 Patent	Infringement by Samsung Captivate Glide
	 <p>The screenshot shows a mobile messaging application interface. At the top, there is a status bar with a signal strength icon, Wi-Fi icon, battery icon, and the time 10:39 AM. Below the status bar is a text input field labeled 'Enter recipient' with a person icon to its right. The main text area contains the message 'This is a new messaf', where 'messaf' is underlined. To the right of the text area are icons for attachments and a 'Send' button. Below the text area is a keyboard with the word 'messaf' and its suggestions 'message', 'messages', and 'messaf' visible. The keyboard is a standard QWERTY layout with a microphone icon and a backspace key.</p>
<p>first area of the touch screen display that displays a current character string being input by a user with the keyboard;</p>	<p>The Samsung Captivate Glide displays a current character string being input by a user with the keyboard in a first area of the touch screen display. For example, in the Samsung Captivate Glide Messaging App, as the user the inputs the character string “messaf,” the Samsung Captivate Glide displays “messaf” in a first area of the touch screen display (the rectangular-shaped area of the screen outlined in blue), which contains the text “This is a new messaf,” as shown in the screenshot below:</p>

Claim 18 of the '172 Patent	Infringement by Samsung Captivate Glide
	 <p data-bbox="453 1094 1881 1162">Other applications, such as the Task, Email, Gmail, Memo, Mini Diary, and Talk applications, provide the same functionality.</p>
<p data-bbox="186 1252 411 1391">in a second area of the touch screen display separate from the</p>	<p data-bbox="453 1235 1881 1268">In a second area of the touch screen display, the current string and a suggested replacement string are displayed.</p>

Claim 18 of the '172 Patent	Infringement by Samsung Captivate Glide
<p>first area that displays the current character string or a portion thereof and a suggested replacement character string for the current character string;</p>	 <p>The screenshot shows a messaging application interface. At the top, there is a status bar with the time 10:39 AM. Below it is a text input field containing the text "This is a new messaf". Below the input field is a suggestion bar displaying four suggestions: "messaf", "message", "messages", and "messag". The word "message" is highlighted in yellow. Below the suggestion bar is a standard QWERTY keyboard. Three orange arrows point to the text "messaf" in the input field, the word "message" in the suggestion bar, and the suggestion bar itself. A green arrow points to the suggestion bar.</p> <p>Current String</p> <p>Suggested String</p> <p>Second Area</p> <p>The second area is located below the first area and separated by a gray border.</p> <p>Other applications, such as the Task, Email, Gmail, Memo, Mini Diary, and Talk applications, provide the same functionality.</p>
<p>wherein; the</p>	<p>The Samsung Captivate Glide replaces the current character string in the first area with the suggested replacement</p>

<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Captivate Glide</p>
<p>current character string in the first area is replaced with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter;</p>	<p>character string if the user activates a key on the keyboard associated with a delimiter. For example, in the screenshots below, after the user selects the “?” key on the keyboard, a delimiter, the current character string “messaf” displayed in the first area is replaced with the suggested replacement “message.”</p> <div style="text-align: center;">  </div> <p style="text-align: center; color: orange; font-weight: bold;">User selects “?”</p> <p>Other applications, such as the Task, Email, Gmail, Memo, Mini Diary, and Talk applications, provide the same functionality.</p>

<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Captivate Glide</p>
<p>the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area; and</p>	<p>The Samsung Captivate Glide replaces the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area. For example, in the screenshots below, after the user performs a first gesture of pressing on the suggested replacement string “message” displayed in the second area, the current character string displayed in the first area is replaced by the suggested string.</p> <div style="text-align: center;">  </div> <p style="text-align: center; color: orange;">User selects “message”</p> <p>Other applications, such as the Task, Email, Gmail, Memo, Mini Diary, and Talk applications, provide the same</p>

Claim 18 of the '172 Patent	Infringement by Samsung Captivate Glide
	functionality.
<p>the current character string in the first area is kept if the user performs a second gesture in the second area on the current character string or the portion thereof displayed in the second area.</p>	<p>If the user performs a second gesture of pressing on the current character string, the current character string is kept. For example, in the screenshots below, after the user taps on the “messaf” displayed in the second area, “messaf” is left as is in the first area of the display.</p> <div style="text-align: center;">  </div> <p style="text-align: center; color: orange; font-weight: bold;">User selects “messaf”</p> <p>Other applications, such as the Task, Email, Gmail, Memo, Mini Diary, and Talk applications, provide the same</p>

Claim 18 of the '172 Patent	Infringement by Samsung Captivate Glide
	functionality.

EXHIBIT A3

CONQUER 4G

INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172

Infringement by Samsung Conquer 4G of U.S. Patent No. 8,074,172

Claim 18 of the '172 Patent	Infringement by Samsung Conquer 4G										
<p>18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising¹:</p>	<p>To the extent that the preamble may be construed to be limiting, the Samsung Conquer 4G provides a graphical user interface on a portable electronic device, as evidenced by the presence of a CPU, memory devices, and a display device. <i>See</i> Conquer 4G: Specifications, available at http://www.samsung.com/us/mobile/cell-phones/SPH-D600ZKASPR-specs (“Specifications”).</p> <p>The Samsung Conquer 4G has a 1 GHz processor. <i>Id.</i></p> <table border="1" data-bbox="562 651 1220 802"> <thead> <tr> <th colspan="2">CPU / Processor</th> </tr> </thead> <tbody> <tr> <td>Processor Speed, Type</td> <td>1GHz, MSM8655</td> </tr> </tbody> </table> <p>The Samsung Conquer 4G also has storage as indicated in the Specifications and indicated below. <i>Id.</i></p> <table border="1" data-bbox="562 902 1129 1149"> <thead> <tr> <th colspan="2">Memory</th> </tr> </thead> <tbody> <tr> <td>Internal Memory</td> <td>512MB</td> </tr> <tr> <td>External Memory/microSD™ Capacity</td> <td>32GB</td> </tr> </tbody> </table>	CPU / Processor		Processor Speed, Type	1GHz, MSM8655	Memory		Internal Memory	512MB	External Memory/microSD™ Capacity	32GB
CPU / Processor											
Processor Speed, Type	1GHz, MSM8655										
Memory											
Internal Memory	512MB										
External Memory/microSD™ Capacity	32GB										

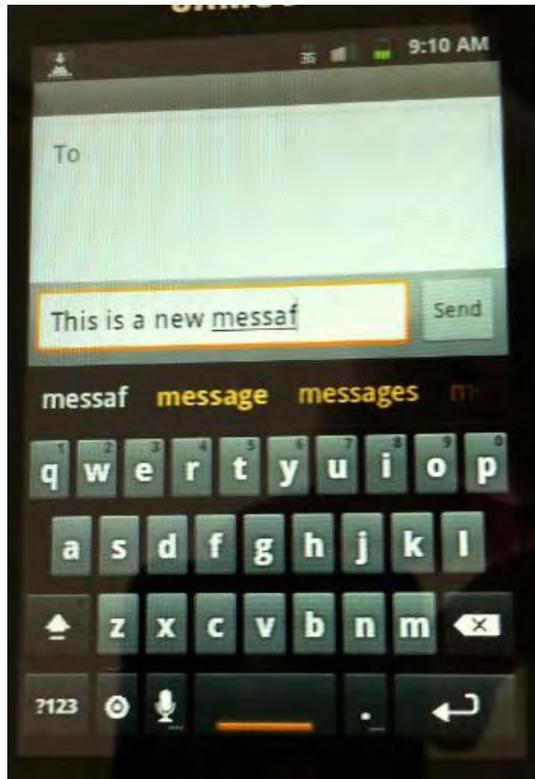
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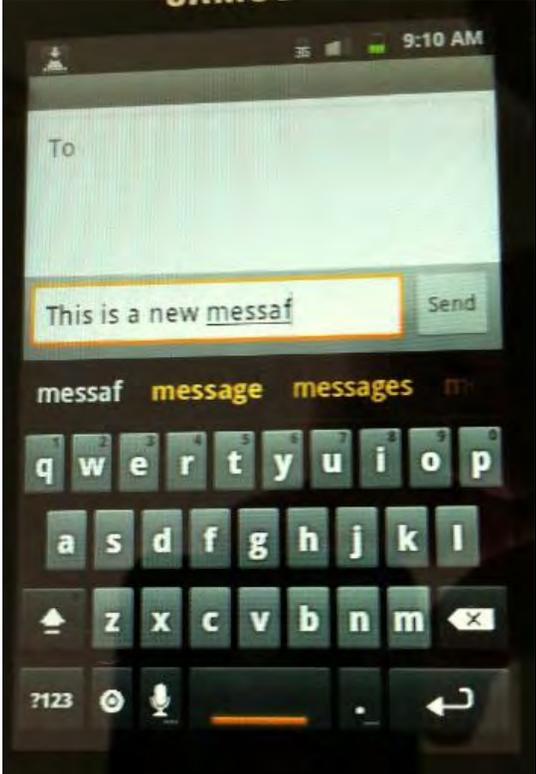
Claim 18 of the '172 Patent	Infringement by Samsung Conquer 4G										
	<p data-bbox="464 334 1885 407">As shown below, and in the Specifications, the Samsung Conquer 4G's CPU is coupled to a 3.5" HVGA touch screen display. (<i>See id.</i>):</p> <div data-bbox="464 797 1089 1166"> <table border="1"> <thead> <tr> <th colspan="2" data-bbox="470 802 1083 857">Display</th> </tr> </thead> <tbody> <tr> <td data-bbox="470 860 783 948">Main Display Resolution</td> <td data-bbox="787 860 1083 948">HVGA</td> </tr> <tr> <td data-bbox="470 951 783 1006">Main Display Size</td> <td data-bbox="787 951 1083 1006">3.5" Display</td> </tr> <tr> <td data-bbox="470 1010 783 1097">Main Display Technology</td> <td data-bbox="787 1010 1083 1097">262K TFT</td> </tr> <tr> <td data-bbox="470 1101 783 1156">Touch Screen</td> <td data-bbox="787 1101 1083 1156">Yes</td> </tr> </tbody> </table> </div> <div data-bbox="1276 435 1667 1162"> </div>	Display		Main Display Resolution	HVGA	Main Display Size	3.5" Display	Main Display Technology	262K TFT	Touch Screen	Yes
Display											
Main Display Resolution	HVGA										
Main Display Size	3.5" Display										
Main Display Technology	262K TFT										
Touch Screen	Yes										

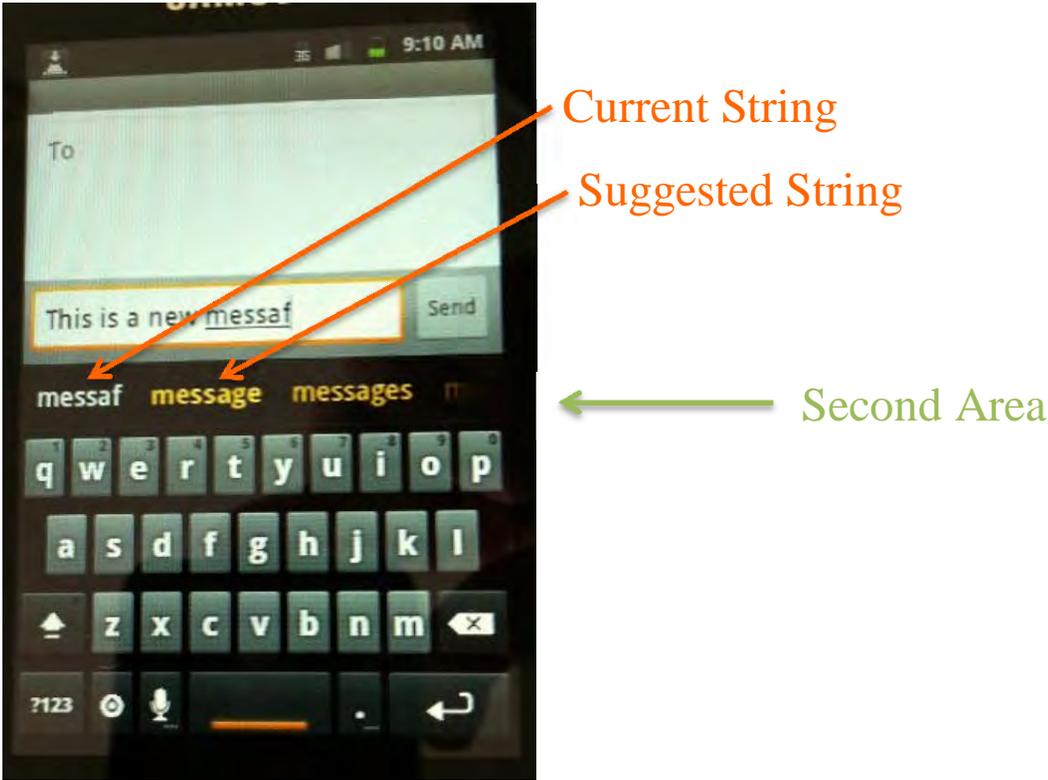
**Claim 18 of the
'172 Patent**

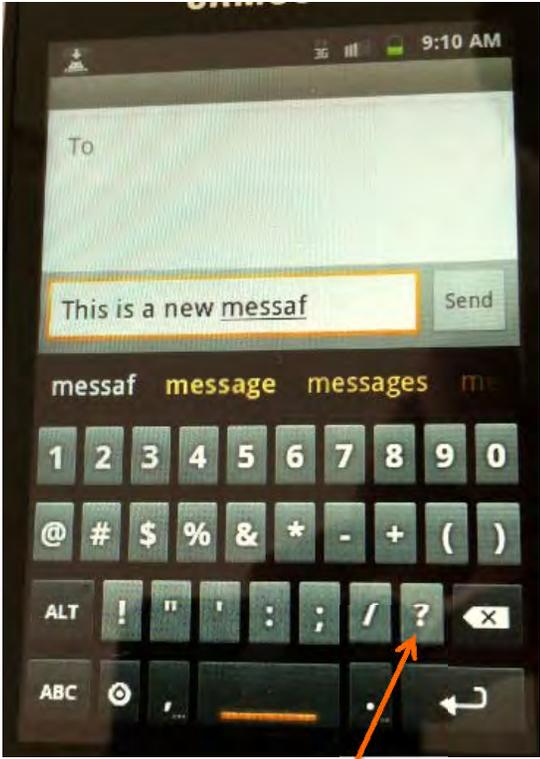
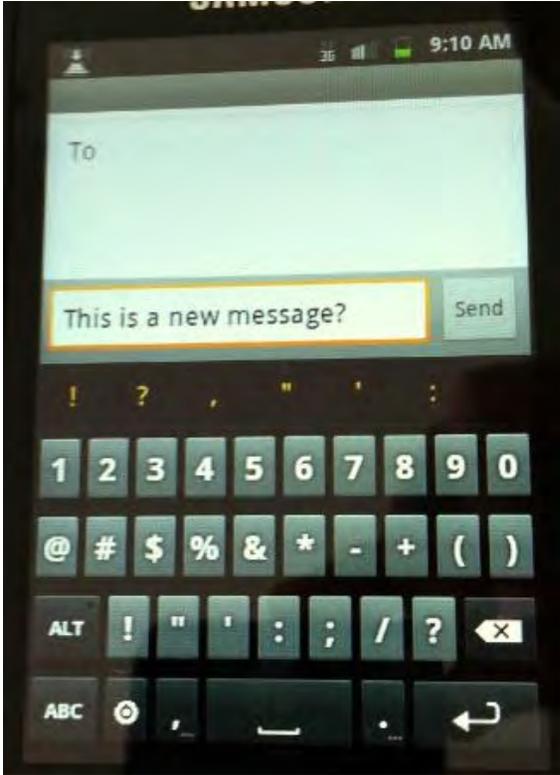
Infringement by Samsung Conquer 4G

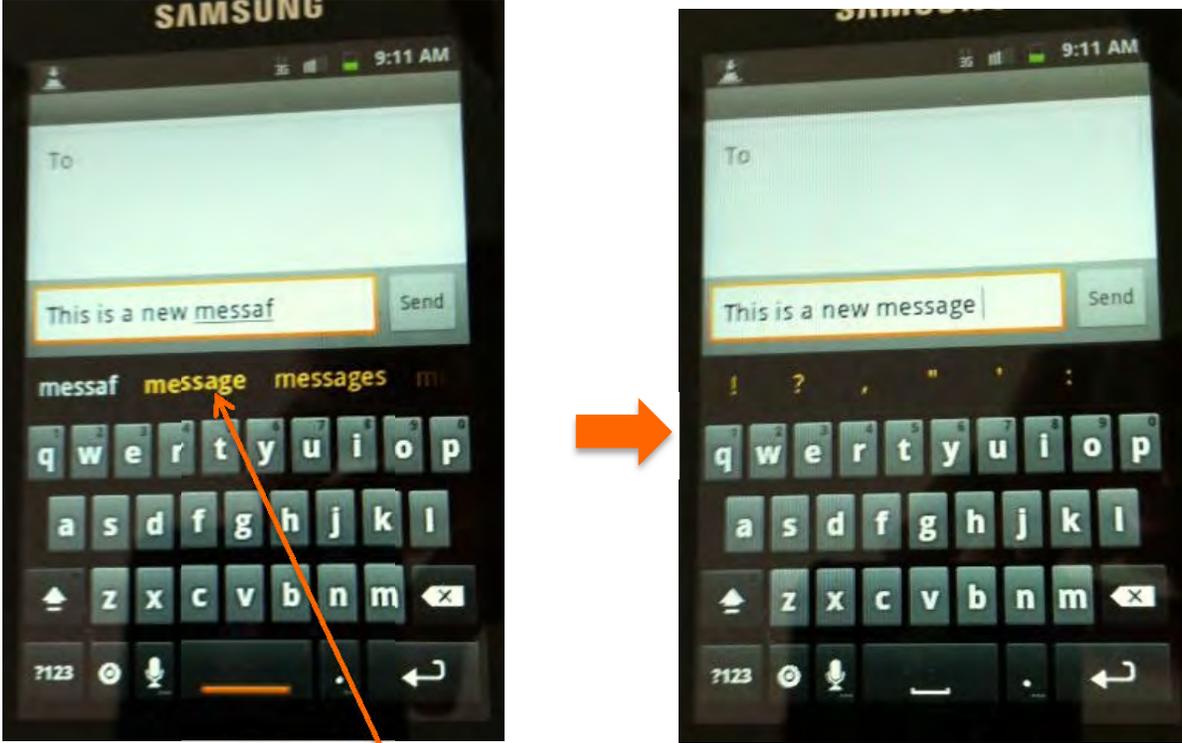
The Samsung Conquer 4G provides a graphical user interface and a virtual keyboard on a touch screen, as shown below.



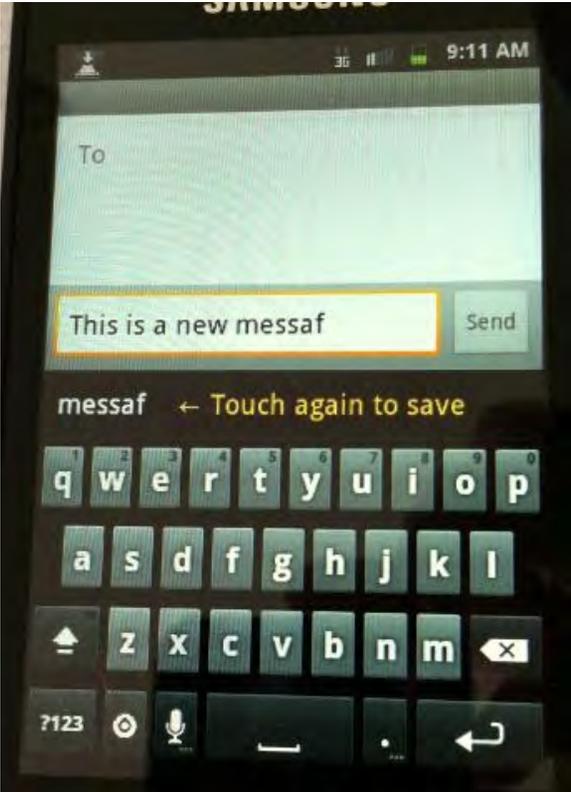
Claim 18 of the '172 Patent	Infringement by Samsung Conquer 4G
<p>first area of the touch screen display that displays a current character string being input by a user with the keyboard;</p>	<p>The Samsung Conquer 4G displays a current character string being input by a user with the keyboard in a first area of the touch screen display. For example, in the Samsung Conquer 4G Messaging App, as the user the inputs the character string “messaf,” the Samsung Conquer 4G displays “messaf” in a first area of the touch screen display (the rectangular-shaped area of the screen outlined in orange), which contains the text “This is a new messaf,” as shown in the screenshot below:</p>  <p>The screenshot shows a messaging application interface on a Samsung Conquer 4G. At the top, the status bar displays the time as 9:10 AM. Below the status bar is a 'To' field. The main text input area contains the text 'This is a new messaf', with the word 'messaf' underlined. A 'Send' button is located to the right of the text input field. Below the text input field, there is a search bar with the text 'messaf' and suggestions for 'message' and 'messages'. At the bottom of the screen is a QWERTY keyboard with a microphone icon and a return key.</p>

Claim 18 of the '172 Patent	Infringement by Samsung Conquer 4G
	Other applications, such as the Email, Gmail and Talk applications, provide the same functionality.
<p>in a second area of the touch screen display separate from the first area that displays the current character string or a portion thereof and a suggested replacement character string for the current character string;</p>	<p>In a second area of the touch screen display, the current string and a suggested replacement string are displayed.</p>  <p>The second area is located below the first area and separated by a gray border.</p> <p>Other applications, such as the Email, Gmail and Talk applications, provide the same functionality.</p>

Claim 18 of the '172 Patent	Infringement by Samsung Conquer 4G
<p>wherein; the current character string in the first area is replaced with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter;</p>	<p>The Samsung Conquer 4G replaces the current character string in the first area with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter. For example, in the screenshots below, after the user selects the “?” key on the keyboard, a delimiter, the current character string “messaf” displayed in the first area is replaced with the suggested replacement “message.”</p> <div style="display: flex; align-items: center; justify-content: center;">  →  </div> <p style="text-align: center; color: orange; font-weight: bold;">User selects “?”</p>

Claim 18 of the '172 Patent	Infringement by Samsung Conquer 4G
	Other applications, such as the Email, Gmail and Talk applications, provide the same functionality.
<p>the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area; and</p>	<p>The Samsung Conquer 4G replaces the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area. For example, in the screenshots below, after the user performs a first gesture of pressing on the suggested replacement string “message” displayed in the second area, the current character string displayed in the first area is replaced by the suggested string.</p> 

User selects “message”

Claim 18 of the '172 Patent	Infringement by Samsung Conquer 4G
	<p>Other applications, such as the Email, Gmail and Talk applications, provide the same functionality.</p>
<p>the current character string in the first area is kept if the user performs a second gesture in the second area on the current character string or the portion thereof displayed in the second area.</p>	<p>If the user performs a second gesture of pressing on the current character string, the current character string is kept. For example, in the screenshots below, after the user taps on the “messaf” displayed in the second area, “messaf” is left as is in the first area of the display.</p> <div style="display: flex; align-items: center; justify-content: center;">  <div style="margin: 0 20px; font-size: 2em; color: orange;">→</div>  </div> <p style="color: orange; text-align: center;">User selects “messaf”</p>

Claim 18 of the '172 Patent	Infringement by Samsung Conquer 4G
	Other applications, such as the Email, Gmail and Talk applications, provide the same functionality.

EXHIBIT A4

EXHIBIT II 4.G

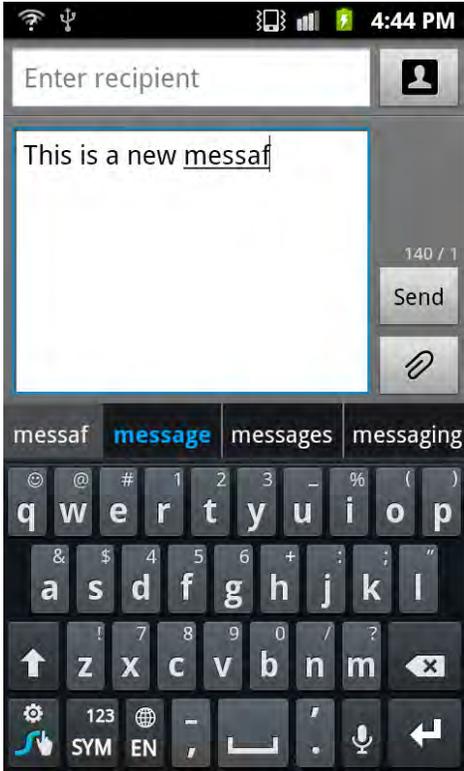
INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172

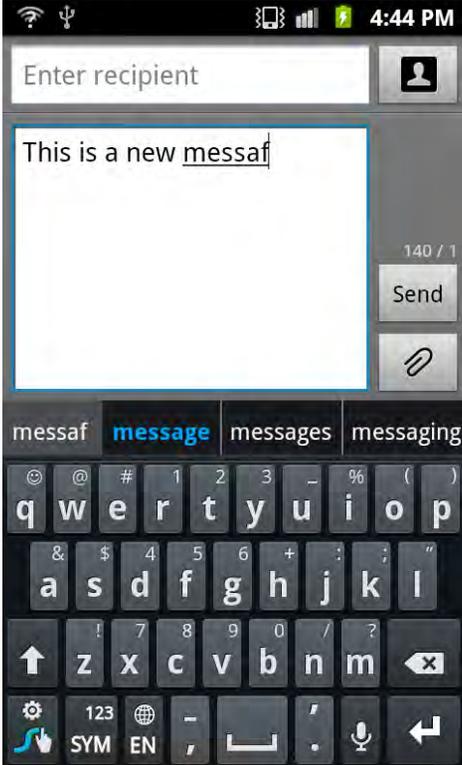
Infringement by Samsung Exhibit II 4G of U.S. Patent No. 8,074,172

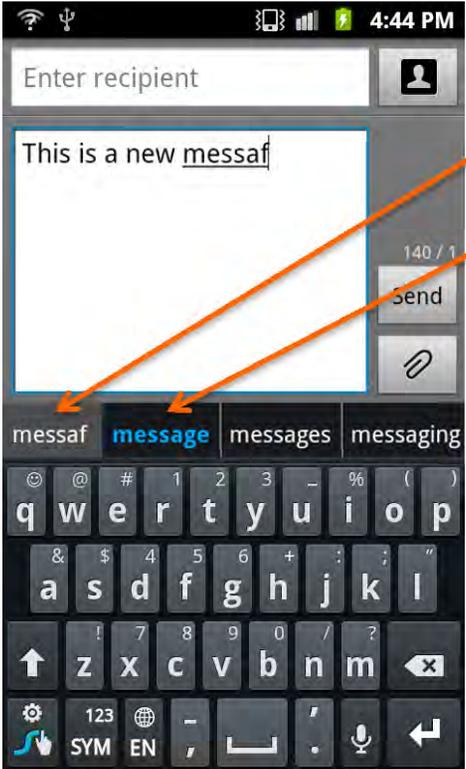
Claim 18 of the '172 Patent	Infringement by Samsung Exhibit II 4G								
<p>18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising¹:</p>	<p>To the extent that the preamble may be construed to be limiting, the Samsung Exhibit II 4G provides a graphical user interface on a portable electronic device, as evidenced by the presence of a CPU, memory devices, and a display device. <i>See</i> Exhibit II 4G: Specifications, available at http://www.samsung.com/us/mobile/cell-phones/SGH-T679DBBTMB-specs (“Specifications”).</p> <p>The Samsung Exhibit II 4G has a 1 GHz processor. <i>Id.</i></p> <table border="1" data-bbox="564 656 1278 803"> <thead> <tr> <th colspan="2">CPU</th> </tr> </thead> <tbody> <tr> <td>Processor Speed, Type</td> <td>1GHz, MSM8255, Qualcomm</td> </tr> </tbody> </table> <p>The Samsung Exhibit II 4G also has storage as indicated in the Specifications and indicated below. <i>Id.</i></p> <table border="1" data-bbox="564 906 1205 1029"> <thead> <tr> <th colspan="2">Memory</th> </tr> </thead> <tbody> <tr> <td>Internal Memory</td> <td>512MB RAM; 4GB ROM</td> </tr> </tbody> </table>	CPU		Processor Speed, Type	1GHz, MSM8255, Qualcomm	Memory		Internal Memory	512MB RAM; 4GB ROM
CPU									
Processor Speed, Type	1GHz, MSM8255, Qualcomm								
Memory									
Internal Memory	512MB RAM; 4GB ROM								

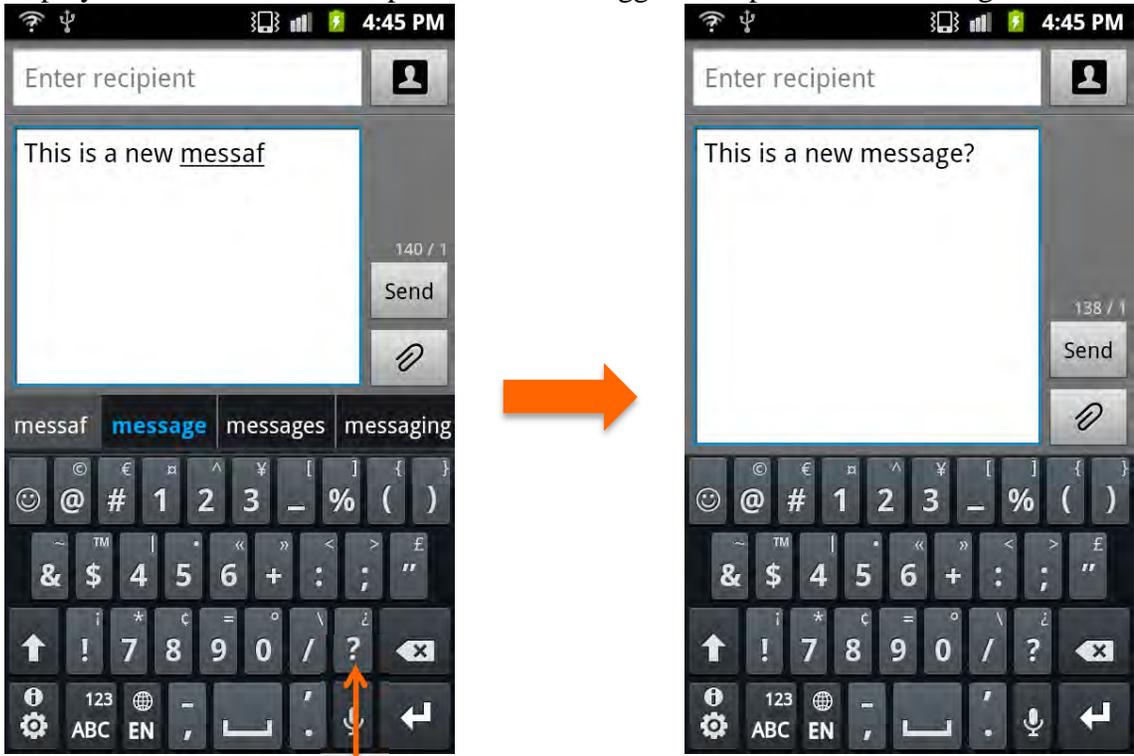
¹ Apple's inclusion of citations related to the claim preamble in this claim chart should not be interpreted as an admission that the preamble is limiting. Apple reserves the right to take the position that claim preambles are limiting or not limiting on a claim-by-claim basis.

Claim 18 of the '172 Patent	Infringement by Samsung Exhibit II 4G										
	<p data-bbox="464 334 1915 407">As shown below and in the Specifications, the Samsung Exhibit II 4G's CPU is coupled to a 3.7 inch, 480 by 800 pixel color 16M TFT touch screen display. <i>See id.</i></p> <table border="1" data-bbox="468 797 1100 1166"> <thead> <tr> <th colspan="2" data-bbox="468 797 1100 857">Display</th> </tr> </thead> <tbody> <tr> <td data-bbox="468 857 779 948">Main Display Resolution</td> <td data-bbox="783 857 1100 948">480x800 Pixel</td> </tr> <tr> <td data-bbox="468 948 779 1011">Main Display Size</td> <td data-bbox="783 948 1100 1011">3.7"</td> </tr> <tr> <td data-bbox="468 1011 779 1104">Main Display Technology</td> <td data-bbox="783 1011 1100 1104">16M TFT</td> </tr> <tr> <td data-bbox="468 1104 779 1166">Touch Screen</td> <td data-bbox="783 1104 1100 1166">Yes</td> </tr> </tbody> </table> 	Display		Main Display Resolution	480x800 Pixel	Main Display Size	3.7"	Main Display Technology	16M TFT	Touch Screen	Yes
Display											
Main Display Resolution	480x800 Pixel										
Main Display Size	3.7"										
Main Display Technology	16M TFT										
Touch Screen	Yes										

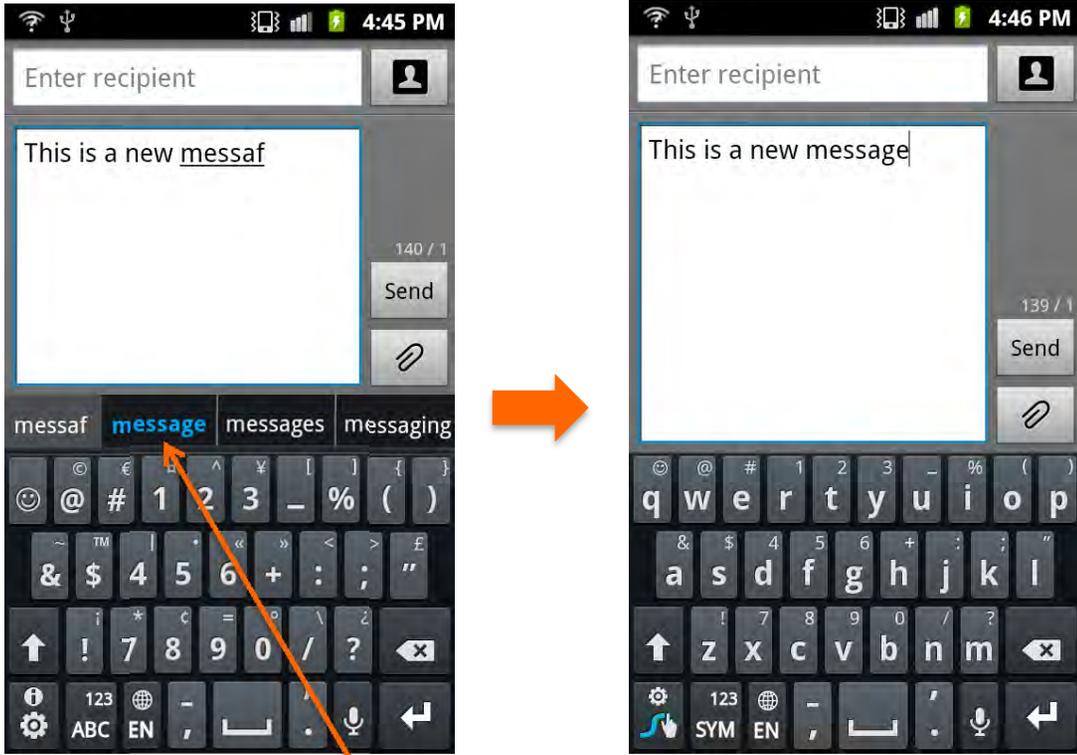
Claim 18 of the '172 Patent	Infringement by Samsung Exhibit II 4G
	<p>The Samsung Exhibit II 4G provides a graphical user interface and a virtual keyboard on a touch screen, as shown below:</p>  <p>The screenshot displays the messaging application interface on the Samsung Exhibit II 4G. At the top, the status bar shows the time as 4:44 PM along with icons for Wi-Fi, signal strength, and battery. Below the status bar is a text input field labeled 'Enter recipient' with a person icon to its right. The main area of the screen contains a text input field with the text 'This is a new messaf' and a character count '140 / 1'. To the right of the text field is a 'Send' button and a link icon. At the bottom of the screen is a virtual QWERTY keyboard with a search bar above it containing the text 'messaf' and suggestions for 'message', 'messages', and 'messaging'.</p>

Claim 18 of the '172 Patent	Infringement by Samsung Exhibit II 4G
<p>first area of the touch screen display that displays a current character string being input by a user with the keyboard;</p>	<p>The Samsung Exhibit II 4G displays a current character string being input by a user with the keyboard in a first area of the touch screen display. For example, in the Samsung Exhibit II 4G Messaging App, as the user the inputs the character string “messaf,” the Samsung Exhibit II 4G displays “messaf” in a first area of the touch screen display (the rectangular-shaped area of the screen outlined in blue), which contains the text “This is a new messaf,” as shown in the screenshot below:</p>  <p>The screenshot shows a messaging application interface on a Samsung Exhibit II 4G. At the top, there is a status bar with icons for Wi-Fi, USB, signal strength, and battery, along with the time 4:44 PM. Below the status bar is a text input field with the placeholder text "Enter recipient" and a person icon. The main text area contains the message "This is a new messaf", where the word "messaf" is highlighted with a blue rectangular box. To the right of the text area, there is a character count "140 / 1", a "Send" button, and a paperclip icon. At the bottom, there is a keyboard with a predictive text bar showing "messaf", "message", "messages", and "messaging".</p>

Claim 18 of the '172 Patent	Infringement by Samsung Exhibit II 4G
	Other applications, such as the Email, Gmail, Memo, Mini Diary, Talk, and Task applications, provide the same functionality.
<p>in a second area of the touch screen display separate from the first area that displays the current character string or a portion thereof and a suggested replacement character string for the current character string;</p>	<p>In a second area of the touch screen display, the current string and a suggested replacement string are displayed.</p>  <p>The second area is located below the first area and separated by a gray border.</p>

Claim 18 of the '172 Patent	Infringement by Samsung Exhibit II 4G
	<p>Other applications, such as the Email, Gmail, Memo, Mini Diary, Talk, and Task applications, provide the same functionality.</p>
<p>wherein; the current character string in the first area is replaced with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter;</p>	<p>The Samsung Exhibit II 4G replaces the current character string in the first area with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter. For example, in the screenshots below, after the user selects the “?” key on the keyboard, a delimiter, the current character string “messaf” displayed in the first area is replaced with the suggested replacement “message.”</p> 

Claim 18 of the '172 Patent	Infringement by Samsung Exhibit II 4G
	<p style="text-align: center; color: orange;">User selects “?”</p> <p>Other applications, such as the Email, Gmail, Memo, Mini Diary, Talk, and Task applications, provide the same functionality.</p>
<p>the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area; and</p>	<p>The Samsung Exhibit II 4G replaces the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area. For example, in the screenshots below, after the user performs a first gesture of pressing on the suggested replacement string “message” displayed in the second area, the current character string displayed in the first area is replaced by the suggested string.</p>

Claim 18 of the '172 Patent	Infringement by Samsung Exhibit II 4G
	 <p data-bbox="493 1071 934 1120">User selects “message”</p> <p data-bbox="451 1128 1879 1193">Other applications, such as the Email, Gmail, Memo, Mini Diary, Talk, and Task applications, provide the same functionality.</p>
<p>the current character string in the first area is kept if the user performs a second</p>	<p>If the user performs a second gesture of pressing on the current character string, the current character string is kept. For example, in the screenshots below, after the user taps on the “messaf” displayed in the second area, “messaf” is left as is in the first area of the display.</p>

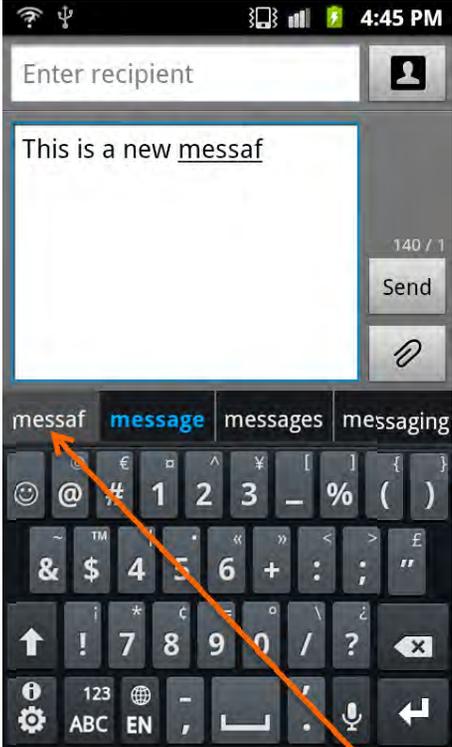
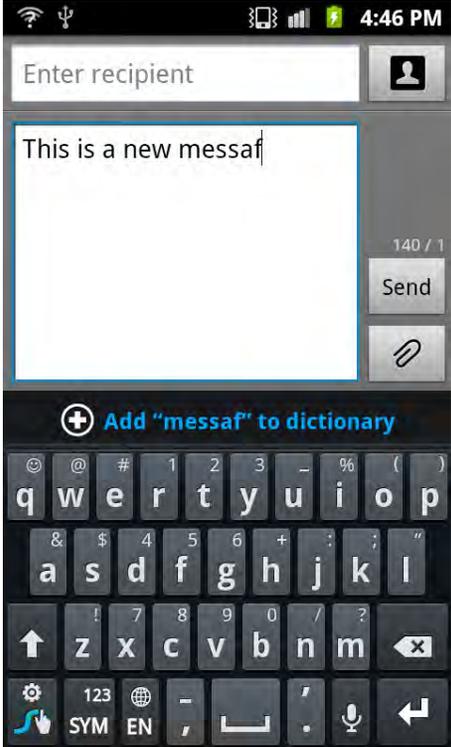
<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Exhibit II 4G</p>	
<p>gesture in the second area on the current character string or the portion thereof displayed in the second area.</p>		
	<p>User selects “messaf”</p> <p>Other applications, such as the Email, Gmail, Memo, Mini Diary, Talk, and Task applications, provide the same functionality.</p>	

EXHIBIT A5

GALAXY NEXUS

INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172

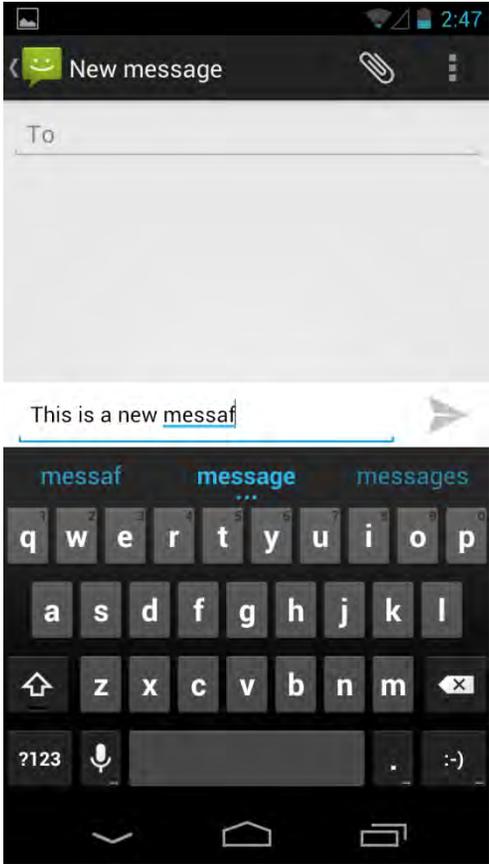
Infringement by Samsung Galaxy Nexus of U.S. Patent No. 8,074,172¹

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Nexus								
<p>18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising²:</p>	<p>To the extent that the preamble may be construed to be limiting, the Samsung Galaxy Nexus provides a graphical user interface on a portable electronic device, as evidenced by the presence of a CPU, memory devices, and a display device. <i>See</i> Galaxy Nexus: Specifications, available at http://www.samsung.com/us/mobile/cell-phones/SCH-I515MSAVZW-specs (“Specifications”).</p> <p>The Samsung Galaxy Nexus has a 1.2 GHz dual core processor. <i>Id.</i></p> <table border="1" data-bbox="564 621 1306 768"> <thead> <tr> <th colspan="2">CPU / Processor</th> </tr> </thead> <tbody> <tr> <td>Processor Speed, Type</td> <td>1.2GHz Dual-Core Processor</td> </tr> </tbody> </table> <p>As indicated in the Specifications, the Samsung Galaxy Nexus also has memory. <i>Id.</i></p> <table border="1" data-bbox="564 870 1161 987"> <thead> <tr> <th colspan="2">Memory</th> </tr> </thead> <tbody> <tr> <td>Internal Memory</td> <td>16GB, 1GB RAM</td> </tr> </tbody> </table>	CPU / Processor		Processor Speed, Type	1.2GHz Dual-Core Processor	Memory		Internal Memory	16GB, 1GB RAM
CPU / Processor									
Processor Speed, Type	1.2GHz Dual-Core Processor								
Memory									
Internal Memory	16GB, 1GB RAM								

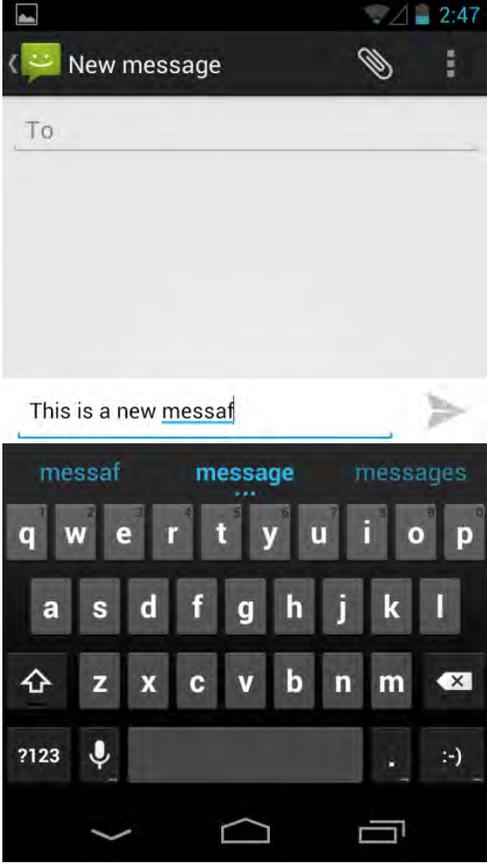
¹ The Samsung Galaxy Nexus is available in three versions: Verizon, Sprint, and Unlocked (available from Google). The screenshots and specifications provided in these claim charts are exemplary and come from a Verizon Galaxy Nexus running the Android Jelly Bean operating system. The functionality described in this document is identical on the Sprint and Unlocked Galaxy Nexuses running Android Jelly Bean or Android Ice Cream Sandwich. Therefore, this chart applies to those versions of the Galaxy Nexus as well. The specifications for the Sprint Galaxy Nexus can be found at <http://www.samsung.com/us/mobile/cell-phones/SPH-L700ZKASPR-specs>. The specifications for the Unlocked 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.

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

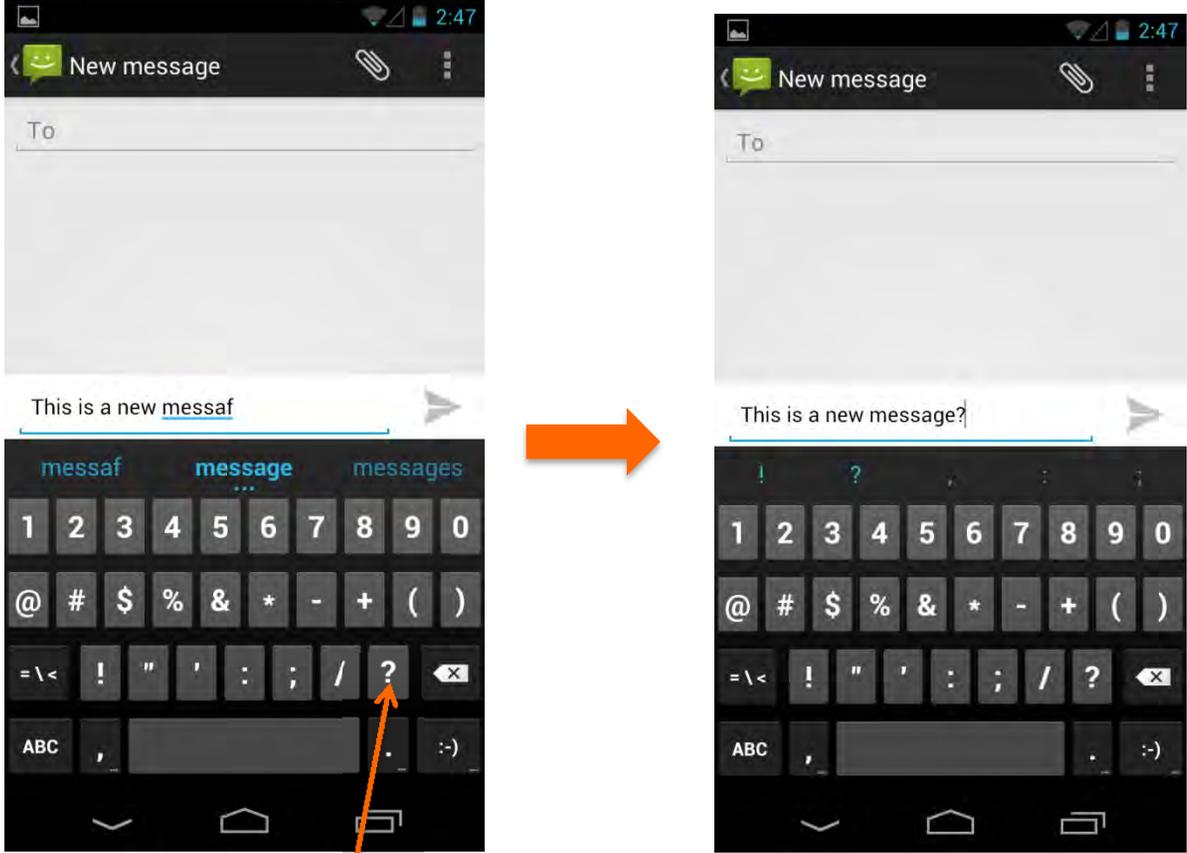
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Nexus								
	<p>As shown below and in the Specifications, the Samsung Galaxy Nexus's CPU is coupled to a 4.65 inch, 1280x720 pixel color HD Super AMOLED contoured touch screen display. <i>See id.</i></p> <div data-bbox="1486 428 1860 1154" data-label="Image"> </div> <table border="1" data-bbox="468 865 1308 1170"> <thead> <tr> <th colspan="2" data-bbox="468 865 1308 927">Display</th> </tr> </thead> <tbody> <tr> <td data-bbox="468 930 783 1019">Main Display Resolution</td> <td data-bbox="787 930 1308 1019">1280x720 pixels</td> </tr> <tr> <td data-bbox="468 1023 783 1084">Main Display Size</td> <td data-bbox="787 1023 1308 1084">4.65" Display</td> </tr> <tr> <td data-bbox="468 1088 783 1170">Main Display Technology</td> <td data-bbox="787 1088 1308 1170">HD Super AMOLED™ contoured display</td> </tr> </tbody> </table>	Display		Main Display Resolution	1280x720 pixels	Main Display Size	4.65" Display	Main Display Technology	HD Super AMOLED™ contoured display
Display									
Main Display Resolution	1280x720 pixels								
Main Display Size	4.65" Display								
Main Display Technology	HD Super AMOLED™ contoured display								

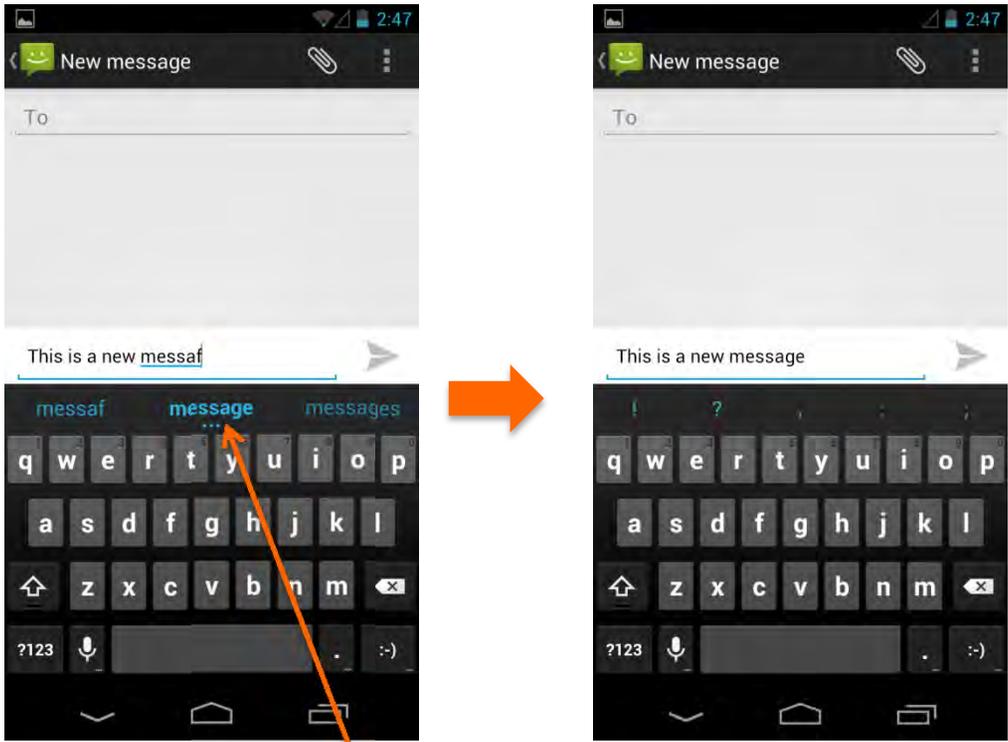
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Nexus
	<p>The Samsung Galaxy Nexus provides a graphical user interface and a virtual keyboard on a touch screen, as shown below:</p>  <p>The screenshot displays the messaging application on a Samsung Galaxy Nexus. At the top, the status bar shows the time as 2:47. The app header is titled "New message" and includes a back arrow, a paperclip icon, and a menu icon. Below the header is a "To:" field. The main body of the screen contains a text input field with the text "This is a new messaf" and a send button. A virtual keyboard is visible at the bottom of the screen, featuring a QWERTY layout with a microphone icon and a smiley face icon. The keyboard is overlaid on the bottom portion of the text input field.</p>

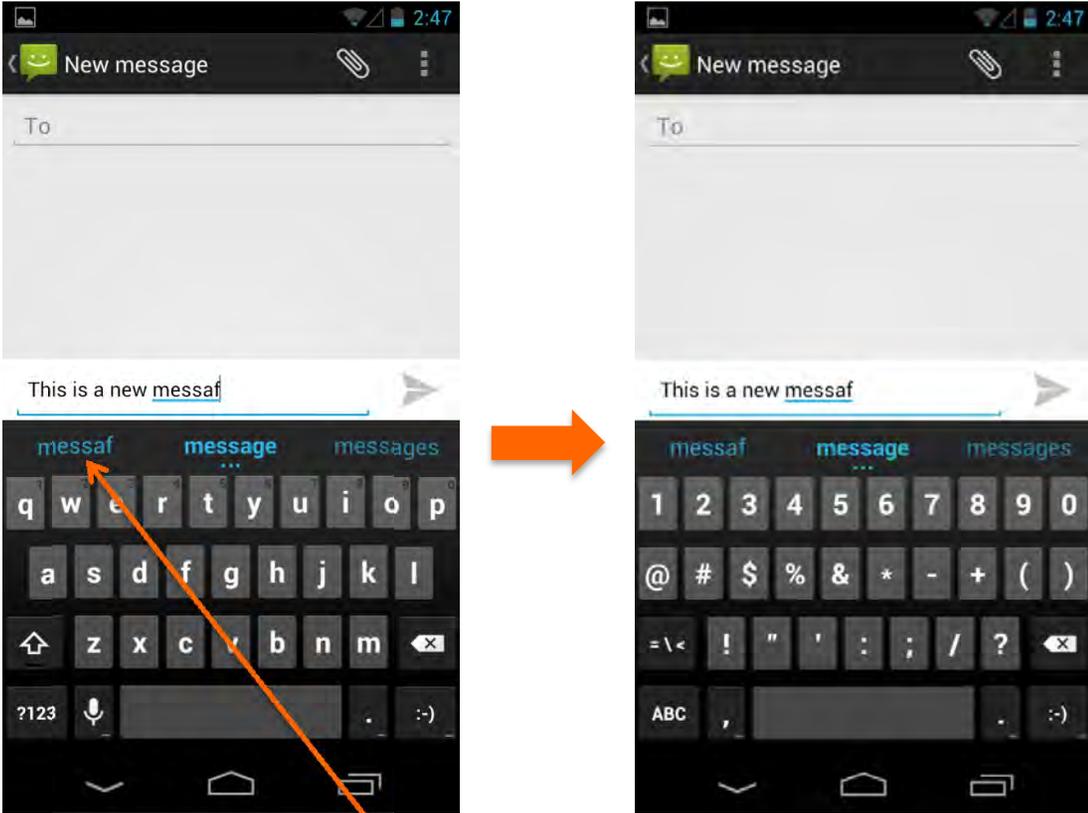
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Nexus
<p>first area of the touch screen display that displays a current character string being input by a user with the keyboard;</p>	<p>The Samsung Galaxy Nexus displays a current character string being input by a user with the keyboard in a first area of the touch screen display. For example, in the Samsung Galaxy Nexus Messaging App, as the user the inputs the character string “messaf,” the Samsung Galaxy Nexus displays “messaf” in a first area of the touch screen display, which contains the text “This is a new messaf,” as shown in the screenshot below:</p>

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Nexus
	 <p>Other applications, such as the Email, Gmail, and Talk applications, provide the same functionality.</p>
in a second area of the touch screen display	In a second area of the touch screen display, the current string and a suggested replacement string are displayed.

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Nexus
<p>separate from the first area that displays the current character string or a portion thereof and a suggested replacement character string for the current character string;</p>	<div data-bbox="451 300 940 1166"> </div> <p data-bbox="972 418 1251 464">Current String</p> <p data-bbox="972 509 1297 555">Suggested String</p> <p data-bbox="1142 743 1392 789">Second Area</p> <p data-bbox="451 1198 1696 1230">The second area is located below the first area and differentiated by a different background color.</p> <p data-bbox="451 1336 1724 1369">Other applications, such as the Email, Gmail, and Talk applications, provide the same functionality.</p>

<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Galaxy Nexus</p>
<p>wherein; the current character string in the first area is replaced with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter;</p>	<p>The Samsung Galaxy Nexus replaces the current character string in the first area with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter. For example, in the screenshots below, after the user selects the “?” key on the keyboard, a delimiter, the current character string “messaf” displayed in the first area is replaced with the suggested replacement “message.”</p>  <p style="color: orange; text-align: center;">User selects “?”</p>

<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Galaxy Nexus</p>
	<p>Other applications, such as the Email, Gmail, and Talk applications, provide the same functionality.</p>
<p>the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area; and</p>	<p>The Samsung Galaxy Nexus replaces the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area. For example, in the screenshots below, after the user performs a first gesture of pressing on the suggested replacement string “message” displayed in the second area, the current character string displayed in the first area is replaced by the suggested string.</p>  <p style="color: orange; text-align: center;">User selects “message”</p>

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Nexus
	Other applications, such as the Email, Gmail, and Talk applications, provide the same functionality.
<p>the current character string in the first area is kept if the user performs a second gesture in the second area on the current character string or the portion thereof displayed in the second area.</p>	<p>If the user performs a second gesture of pressing on the current character string, the current character string is kept. For example, in the screenshots below, after the user taps on the “messaf” displayed in the second area, “messaf” is left as is in the first area of the display.</p> <div style="display: flex; justify-content: space-around; align-items: center;">  </div> <p style="text-align: center; color: orange; font-weight: bold;">User selects “messaf”</p>

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Nexus
	Other applications, such as the Email, Gmail, and Talk applications, provide the same functionality.

EXHIBIT A6

GALAXY SII

INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172

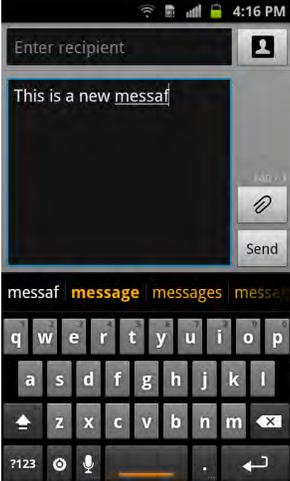
Infringement by Samsung Galaxy S II of U.S. Patent No. 8,074,172¹

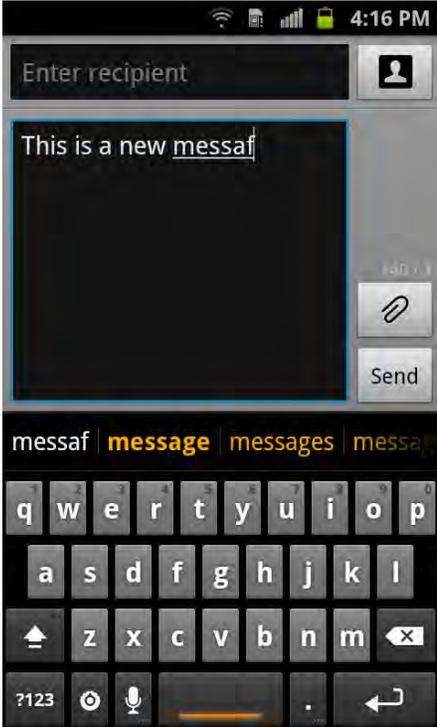
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy S II										
<p>18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising²:</p>	<p>To the extent that the preamble may be construed to be limiting, the Samsung Galaxy S II provides a graphical user interface on a portable electronic device, as evidenced by the presence of a CPU, memory devices, and a display device. <i>See</i> Galaxy S II: Specifications, available at http://www.samsung.com/us/mobile/cell-phones/SGH-I777ZKAATT-specs (“Specifications”).</p> <p>The Samsung Galaxy S II has a 1.2 GHz dual core processor. <i>Id.</i></p> <table border="1" data-bbox="562 656 1438 808"> <thead> <tr> <th colspan="2">CPU / Processor</th> </tr> </thead> <tbody> <tr> <td>Processor Speed, Type</td> <td>1.2 GHz, Dual Core (Samsung Exnyos C210)</td> </tr> </tbody> </table> <p>The Samsung Galaxy S II also has storage as indicated in the Specifications and indicated below. <i>Id.</i></p> <table border="1" data-bbox="562 912 1341 1156"> <thead> <tr> <th colspan="2">Memory</th> </tr> </thead> <tbody> <tr> <td>Internal Memory</td> <td>16GB/1024MB RAM (4GLPDDR*2)</td> </tr> <tr> <td>External Memory/microSD™ Capacity</td> <td>microSD™ Card</td> </tr> </tbody> </table>	CPU / Processor		Processor Speed, Type	1.2 GHz, Dual Core (Samsung Exnyos C210)	Memory		Internal Memory	16GB/1024MB RAM (4GLPDDR*2)	External Memory/microSD™ Capacity	microSD™ Card
CPU / Processor											
Processor Speed, Type	1.2 GHz, Dual Core (Samsung Exnyos C210)										
Memory											
Internal Memory	16GB/1024MB RAM (4GLPDDR*2)										
External Memory/microSD™ Capacity	microSD™ Card										

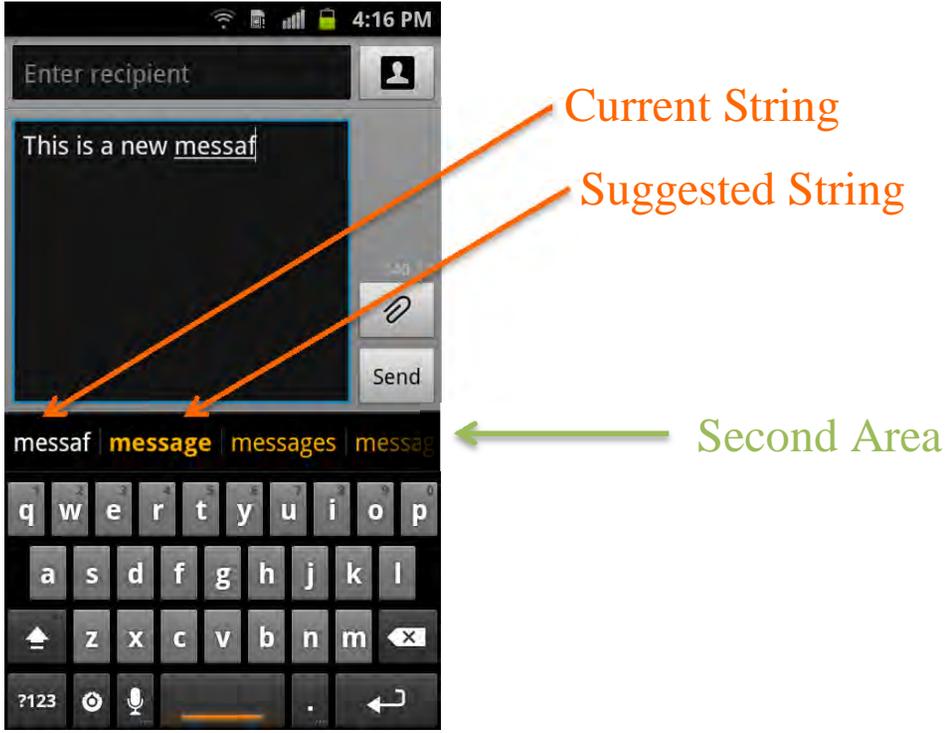
¹ The Samsung Galaxy SII is available from AT&T and T-Mobile. The screenshots and specifications provided in this claim chart are exemplary and come from the AT&T Galaxy SII. The functionality described in this document is identical on the T-Mobile Galaxy SII. Therefore, this chart applies to that version of the 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-T989ZKBTMB-specs>.

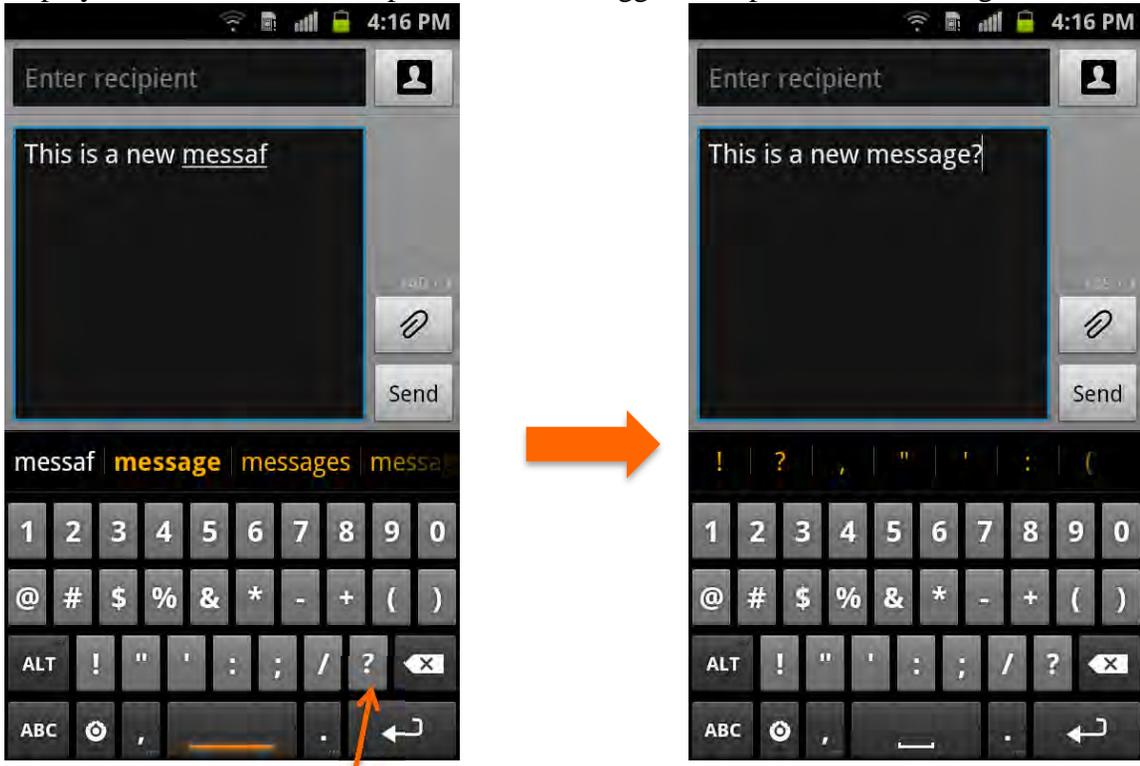
² Apple's inclusion of citations related to the claim preamble in this claim chart should not be interpreted as an admission that the preamble is limiting. Apple reserves the right to take the position that claim preambles are limiting or not limiting on a claim-by-claim basis.

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy S II										
	<p data-bbox="464 402 1934 472">As shown below and in the Specifications, the Samsung Galaxy S II's CPU is coupled to a 4.3 inch, 480x800 pixel color Super AMOLED Plus touch screen display. <i>See id.</i></p> <table border="1" data-bbox="468 508 1131 876"> <thead> <tr> <th colspan="2" data-bbox="468 508 1131 570">Display</th> </tr> </thead> <tbody> <tr> <td data-bbox="468 573 774 659">Main Display Resolution</td> <td data-bbox="779 573 1131 659">480x800 Pixel</td> </tr> <tr> <td data-bbox="468 662 774 724">Main Display Size</td> <td data-bbox="779 662 1131 724">4.3"</td> </tr> <tr> <td data-bbox="468 727 774 813">Main Display Technology</td> <td data-bbox="779 727 1131 813">Super AMOLED Plus</td> </tr> <tr> <td data-bbox="468 816 774 876">Touch Screen</td> <td data-bbox="779 816 1131 876">Yes</td> </tr> </tbody> </table>  <p data-bbox="464 899 1902 969">The Samsung Galaxy S II provides a graphical user interface and a virtual keyboard on a touch screen, as shown below:</p>	Display		Main Display Resolution	480x800 Pixel	Main Display Size	4.3"	Main Display Technology	Super AMOLED Plus	Touch Screen	Yes
Display											
Main Display Resolution	480x800 Pixel										
Main Display Size	4.3"										
Main Display Technology	Super AMOLED Plus										
Touch Screen	Yes										

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy S II
	 <p>The screenshot shows the Samsung Galaxy S II Messaging App interface. At the top, there is a status bar with the time 4:16 PM and various icons. Below that is a text input field labeled 'Enter recipient' with a person icon. The main area of the screen shows a text input field containing the text 'This is a new messaf'. A blue rectangular outline highlights this text. Below the text input field is a keyboard with a search bar containing 'messaf' and suggestions for 'message', 'messages', and 'messaf'. The keyboard is a standard QWERTY layout with a microphone icon and a backspace key.</p>
<p>first area of the touch screen display that displays a current character string being input by a user with the keyboard;</p>	<p>The Samsung Galaxy S II displays a current character string being input by a user with the keyboard in a first area of the touch screen display. For example, in the Samsung Galaxy S II Messaging App, as the user the inputs the character string “messaf,” the Samsung Galaxy S II displays “messaf” in a first area of the touch screen display (the rectangular-shaped area of the screen outlined in blue), which contains the text “This is a new messaf,” as shown in the screenshot below:</p>

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy S II
	 <p>Other applications, including the Email, Gmail, Task, Talk, Memo, and Mini Diary applications, provide the same functionality.</p>
<p>in a second area of the touch screen display separate from the</p>	<p>In a second area of the touch screen display, the current string and a suggested replacement string are displayed.</p>

<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Galaxy S II</p>
<p>first area that displays the current character string or a portion thereof and a suggested replacement character string for the current character string;</p>	 <p>The screenshot shows a messaging application interface. At the top, there is a status bar with the time 4:16 PM. Below it is a text input field containing the text "This is a new messaf". Below the input field is a suggestion bar displaying four suggestions: "messaf", "message", "messages", and "messag". The word "message" is highlighted in orange. Below the suggestion bar is a QWERTY keyboard. Three orange arrows point from the text "Current String" and "Suggested String" to the input field and the suggestion bar, respectively. A green arrow points from the text "Second Area" to the suggestion bar.</p> <p>The second area is located below the first area and separated by a gray border.</p> <p>Other applications, including the Email, Gmail, Task, Talk, Memo, and Mini Diary applications, provide the same functionality.</p>
<p>wherein; the</p>	<p>The Samsung Galaxy S II replaces the current character string in the first area with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter. For example, in the</p>

<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Galaxy S II</p>
<p>current character string in the first area is replaced with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter;</p>	<p>screenshots below, after the user selects the “?” key on the keyboard, a delimiter, the current character string “messaf” displayed in the first area is replaced with the suggested replacement “message.”</p>  <p>User selects “?”</p> <p>Other applications, including the Email, Gmail, Task, Talk, Memo, and Mini Diary applications, provide the same functionality.</p>
<p>the current</p>	<p>The Samsung Galaxy S II replaces the current character string in the first area with the suggested replacement</p>

<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Galaxy S II</p>
<p>character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area; and</p>	<p>character string if the user performs a first gesture on the suggested replacement character string displayed in the second area. For example, in the screenshots below, after the user performs a first gesture of pressing on the suggested replacement string “message” displayed in the second area, the current character string displayed in the first area is replaced by the suggested string.</p> <div data-bbox="451 487 1507 1226" style="text-align: center;"> </div> <p style="text-align: center; color: orange; font-weight: bold;">User selects “message”</p> <p>Other applications, including the Email, Gmail, Task, Talk, Memo, and Mini Diary applications, provide the same functionality.</p>

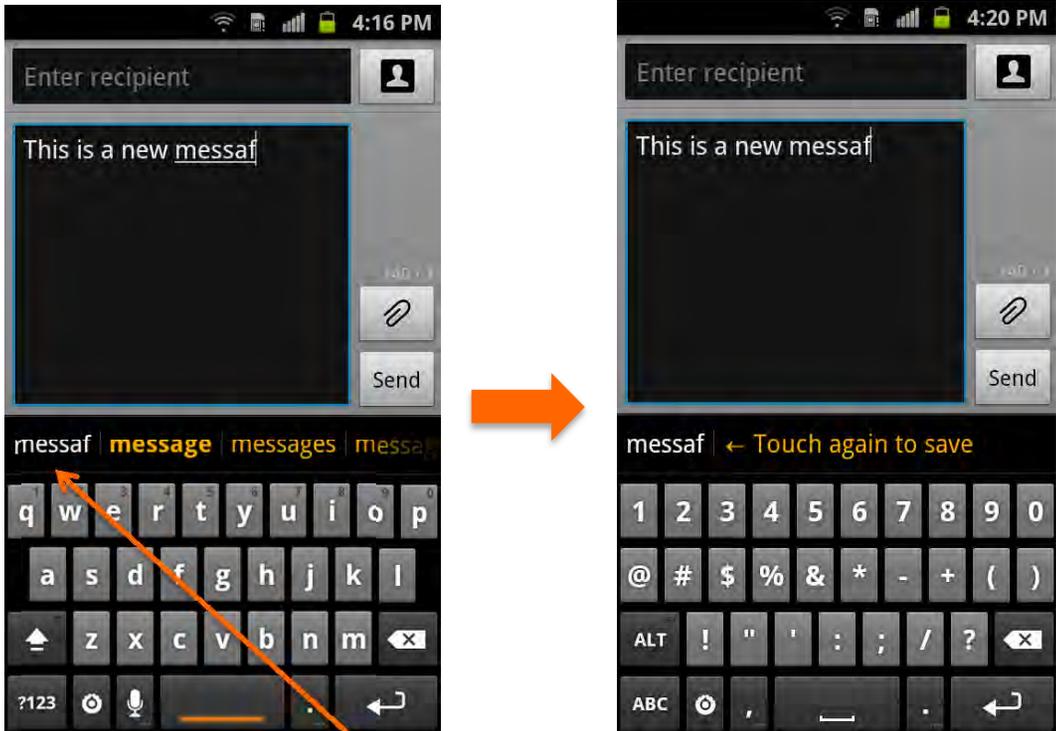
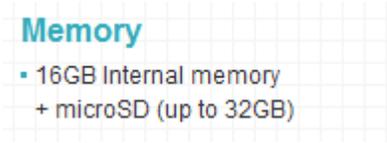
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy S II
<p>the current character string in the first area is kept if the user performs a second gesture in the second area on the current character string or the portion thereof displayed in the second area.</p>	<p>If the user performs a second gesture of pressing on the current character string, the current character string is kept. For example, in the screenshots below, after the user taps on the “messaf” displayed in the second area, “messaf” is left as is in the first area of the display.</p>  <p style="text-align: center; color: orange; font-weight: bold;">User selects “messaf”</p> <p>Other applications, including the Email, Gmail, Task, Talk, Memo, and Mini Diary applications, provide the same functionality.</p>

EXHIBIT A7

GALAXY NOTE

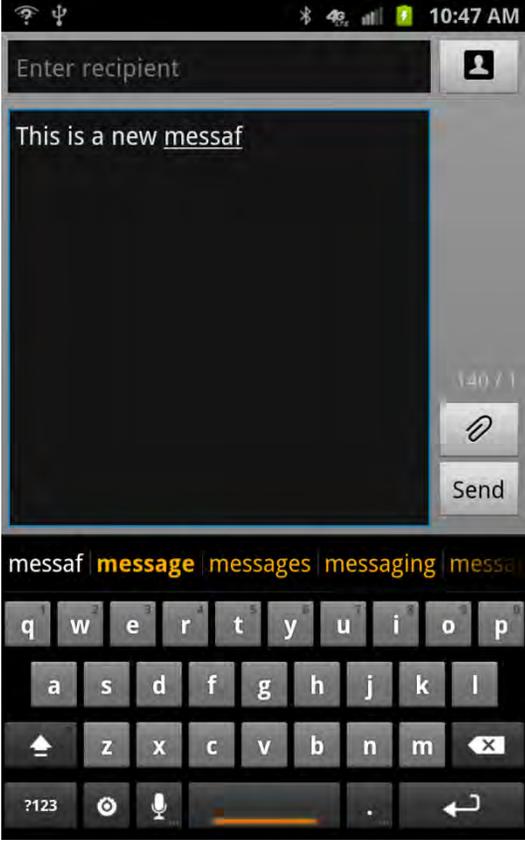
INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172

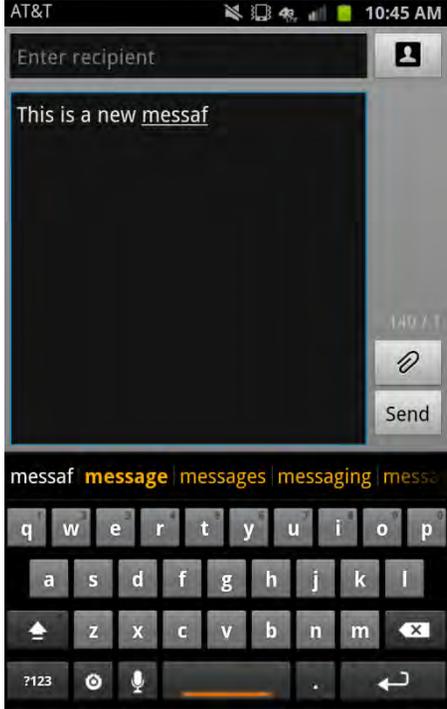
Infringement by Samsung Galaxy Note of U.S. Patent No. 8,074,172

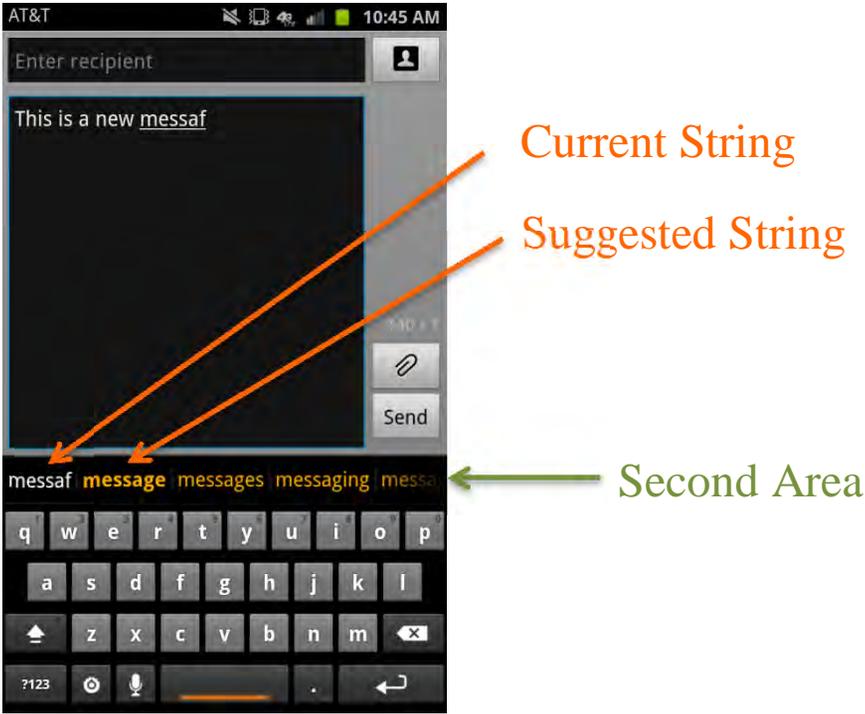
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Note
<p>18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising¹:</p>	<p>To the extent that the preamble may be construed to be limiting, the Samsung Galaxy Note provides a graphical user interface on a portable electronic device, as evidenced by the presence of a CPU, memory devices, and a display device. <i>See</i> Galaxy Note: Specifications, available at http://www.samsung.com/global/microsite/galaxynote/note/spec.html?type=find (“Specifications”).</p> <p>The Samsung Galaxy Note has a 1.4 GHz dual core processor. <i>Id.</i></p>  <p>The Samsung Galaxy Note also has storage as indicated in the Specifications and indicated below. <i>Id.</i></p> 

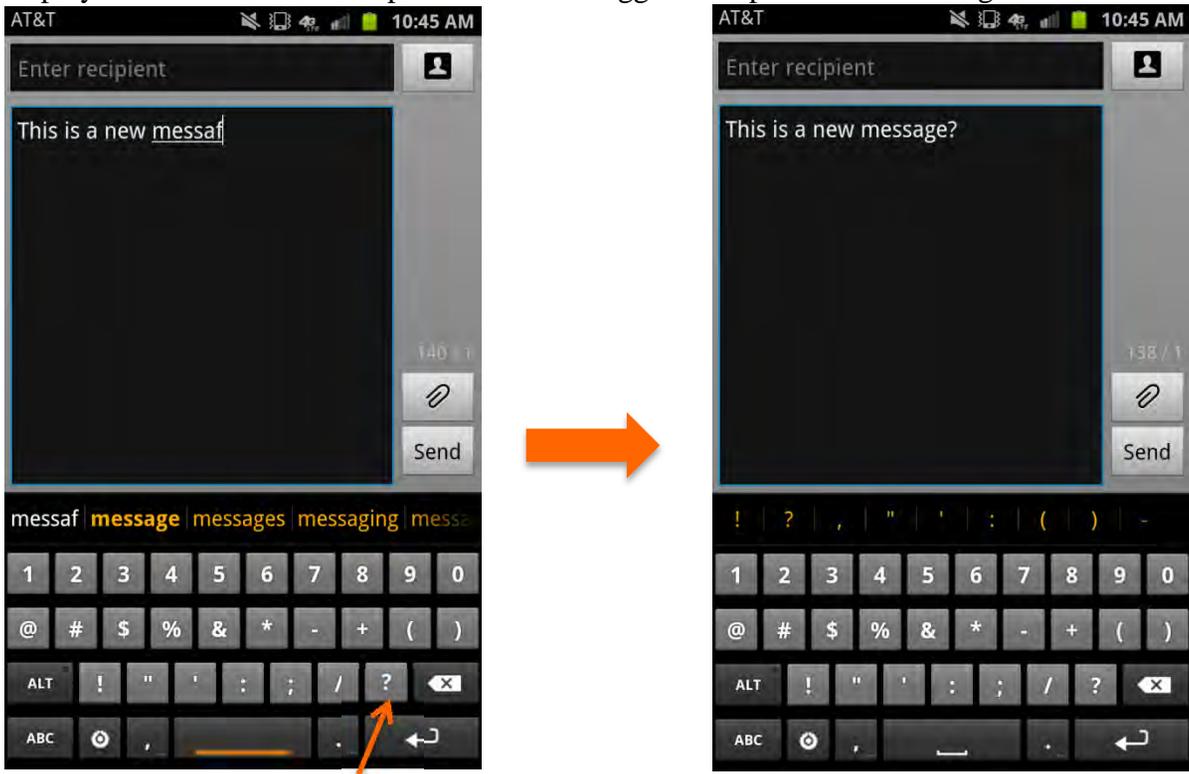
¹ Apple's inclusion of citations related to the claim preamble in this claim chart should not be interpreted as an admission that the preamble is limiting. Apple reserves the right to take the position that claim preambles are limiting or not limiting on a claim-by-claim basis.

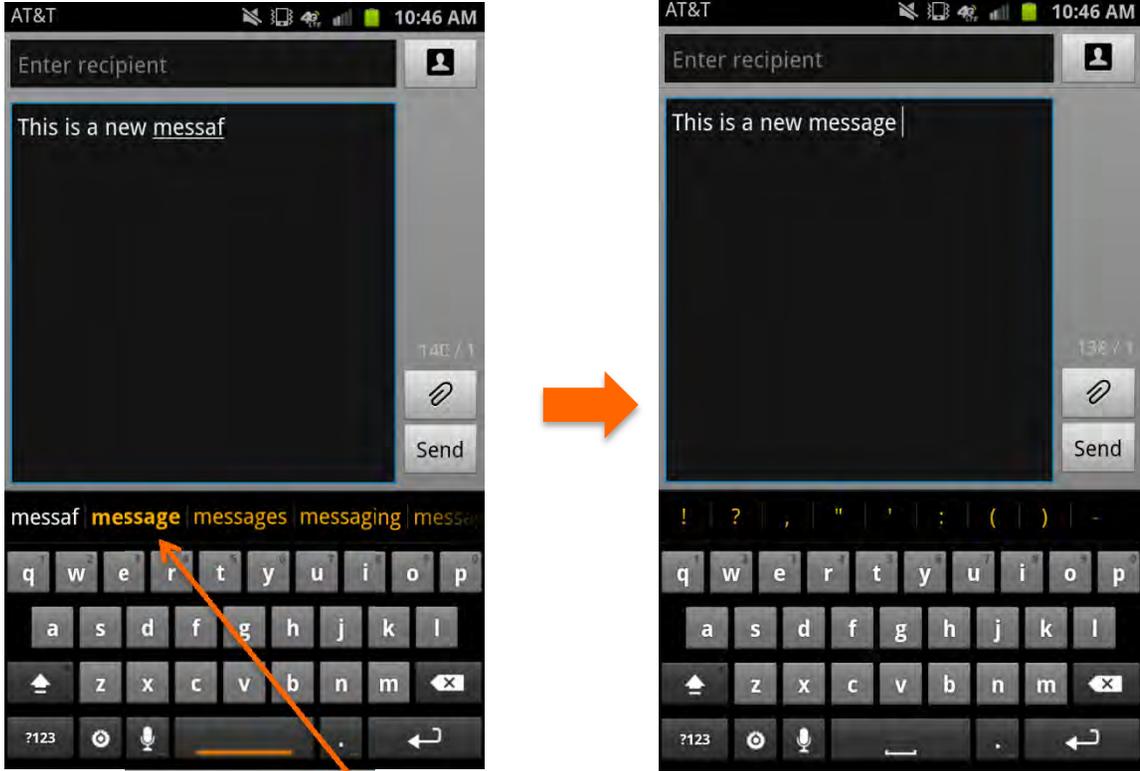
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Note
	<p>As shown below and in the Specifications, the Samsung Galaxy Note's CPU is coupled to a 5.3 inch, 1280x800 pixel color HD Super AMOLED touch screen display. <i>See id.</i></p>  <p>Display</p> <ul style="list-style-type: none">• 5.3" WXGA (1280 x 800) screen*• HD Super AMOLED

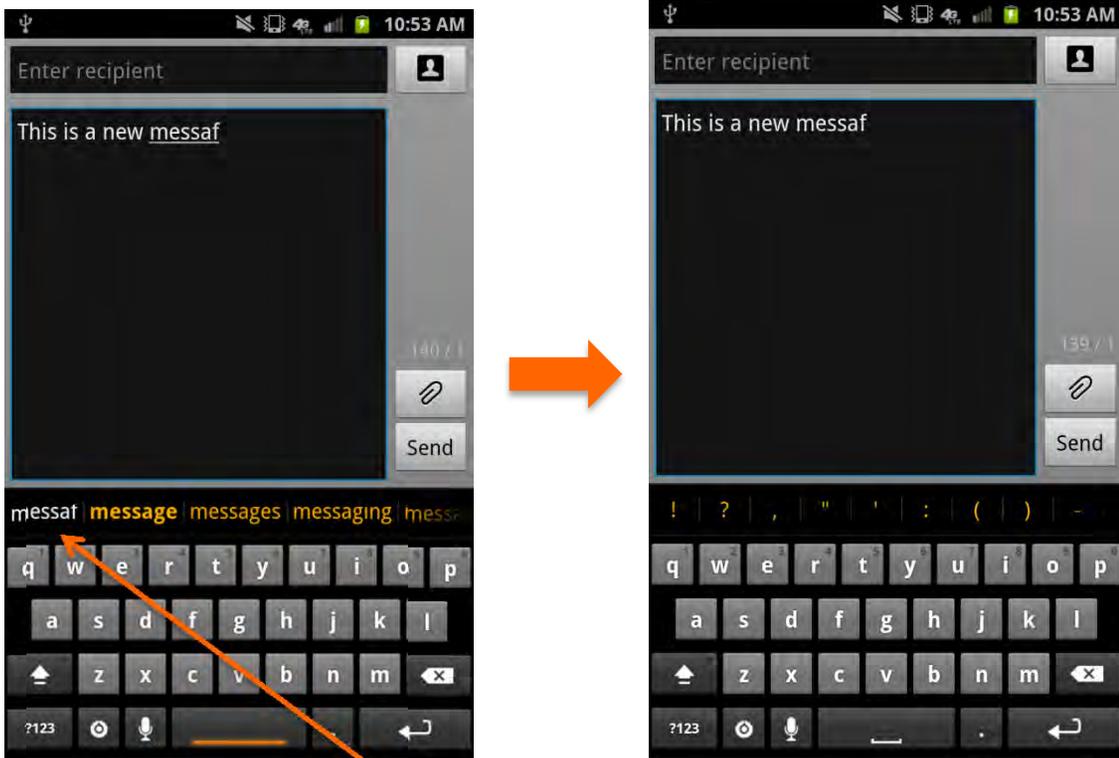
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Note
	<p>The Samsung Galaxy Note provides a graphical user interface and a virtual keyboard on a touch screen, as shown below:</p>  <p>The screenshot displays the messaging application's interface. At the top, there is a status bar with icons for Wi-Fi, signal strength, and battery, along with the time 10:47 AM. Below this is a header area with the text 'Enter recipient' and a contact icon. The main text area contains the message 'This is a new <u>messaf</u>'. To the right of the text area, there is a character count '140 / 1', a paperclip icon for attachments, and a 'Send' button. At the bottom, a virtual keyboard is visible with the word 'messaf' in the input field, and suggestions for 'message', 'messages', 'messaging', and 'messa' are shown above the keys. The keyboard includes standard QWERTY keys, a spacebar, and a return key.</p>

<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Galaxy Note</p>
<p>first area of the touch screen display that displays a current character string being input by a user with the keyboard;</p>	<p>The Samsung Galaxy Note displays a current character string being input by a user with the keyboard in a first area of the touch screen display. For example, in the Samsung Galaxy Note Messaging App, as the user the inputs the character string “messaf,” the Samsung Galaxy Note displays “messaf” in a first area of the touch screen display, which contains the text “This is a new messaf,” as shown in the screenshot below:</p>  <p>Other applications, such as the Email, Gmail, Mini Diary, S Memo, and Talk applications, provide the same functionality.</p>

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Note
<p>in a second area of the touch screen display separate from the first area that displays the current character string or a portion thereof and a suggested replacement character string for the current character string;</p>	<p>In a second area of the touch screen display, the current string and a suggested replacement string are displayed.</p>  <p>The screenshot shows a text input field with the text "This is a new messaf". Below the text input, a keyboard is visible. The word "message" is highlighted in yellow on the keyboard, indicating it is a suggested replacement for the current string "messaf". A green arrow points to the area below the text input, labeled "Second Area".</p> <p>Current String</p> <p>Suggested String</p> <p>Second Area</p> <p>The second area is located below the first area and is separated by a gray border.</p> <p>Other applications, such as the Email, Gmail, Mini Diary, S Memo, and Talk applications, provide the same functionality.</p>

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Note
<p>wherein; the current character string in the first area is replaced with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter;</p>	<p>The Samsung Galaxy Note replaces the current character string in the first area with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter. For example, in the screenshots below, after the user selects the “?” key on the keyboard, a delimiter, the current character string “messaf” displayed in the first area is replaced with the suggested replacement “message.”</p>  <p style="text-align: center; color: orange;">User selects “?”</p>

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Note
	Other applications, such as the Email, Gmail, Mini Diary, S Memo, and Talk applications, provide the same functionality.
<p>the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area; and</p>	<p>The Samsung Galaxy Note replaces the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area. For example, in the screenshots below, after the user performs a first gesture of pressing on the suggested replacement string “message” displayed in the second area, the current character string displayed in the first area is replaced by the suggested string.</p>  <p>User selects “message”</p>

<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Galaxy Note</p>
	<p>Other applications, such as the Email, Gmail, Mini Diary, S Memo, and Talk applications, provide the same functionality.</p>
<p>the current character string in the first area is kept if the user performs a second gesture in the second area on the current character string or the portion thereof displayed in the second area.</p>	<p>If the user performs a second gesture of pressing on the current character string, the current character string is kept. For example, in the screenshots below, after the user taps on the “messaf” displayed in the second area, “messaf” is left as is in the first area of the display.</p> <div style="display: flex; align-items: center; justify-content: center;">  </div> <p style="text-align: center; color: orange; font-weight: bold;">User selects “messaf”</p>

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Note
	Other applications, such as the Email, Gmail, Mini Diary, S Memo, and Talk applications, provide the same functionality.

EXHIBIT A8

GALAXY PLAYER 4.0

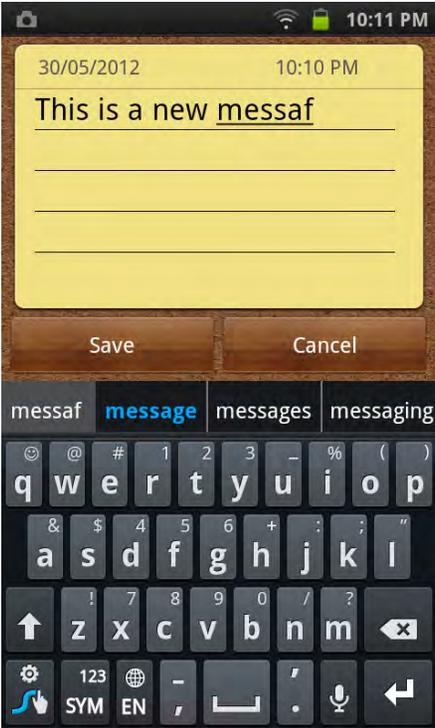
INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172

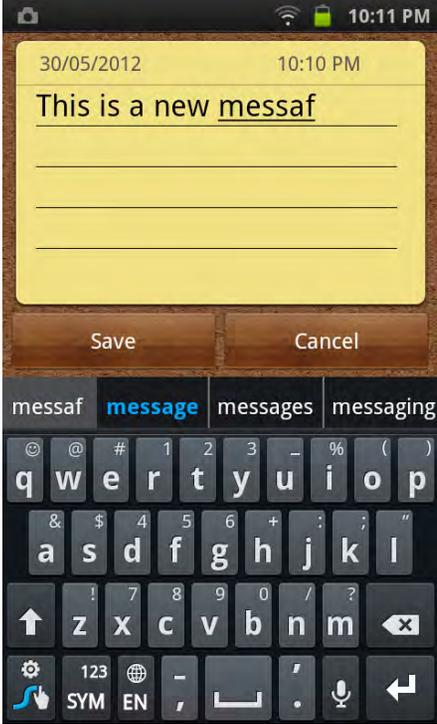
Infringement by Samsung Galaxy Player 4.0 of U.S. Patent No. 8,074,172

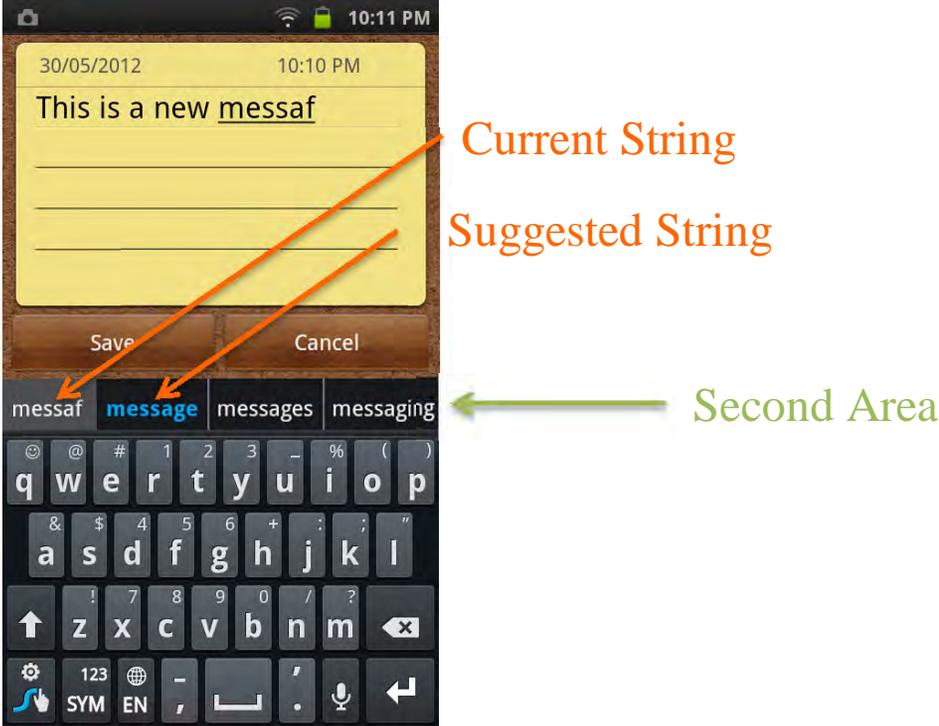
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Player 4.0						
<p>18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising¹:</p>	<p>To the extent that the preamble may be construed to be limiting, the Samsung Galaxy Player 4.0 provides a graphical user interface on a portable electronic device, as evidenced by the presence of an operating system, memory, and a touch screen display. <i>See</i> Galaxy Player 4.0: Specifications, available at http://www.samsung.com/us/mobile/mp3-players/YP-G1CWY/XAA-specs (“Specifications”).</p> <p>The Samsung Galaxy Player 4.0 runs on the Android operating system. <i>Id.</i></p> <p>The Samsung Galaxy Player 4.0 also has storage as indicated in the Specifications and indicated below. <i>Id.</i></p> <table border="1" data-bbox="470 699 1062 883"> <thead> <tr> <th colspan="2">General</th> </tr> </thead> <tbody> <tr> <td>Storage Type</td> <td>Flash Memory</td> </tr> <tr> <td>Memory Capacity</td> <td>8GB</td> </tr> </tbody> </table>	General		Storage Type	Flash Memory	Memory Capacity	8GB
General							
Storage Type	Flash Memory						
Memory Capacity	8GB						

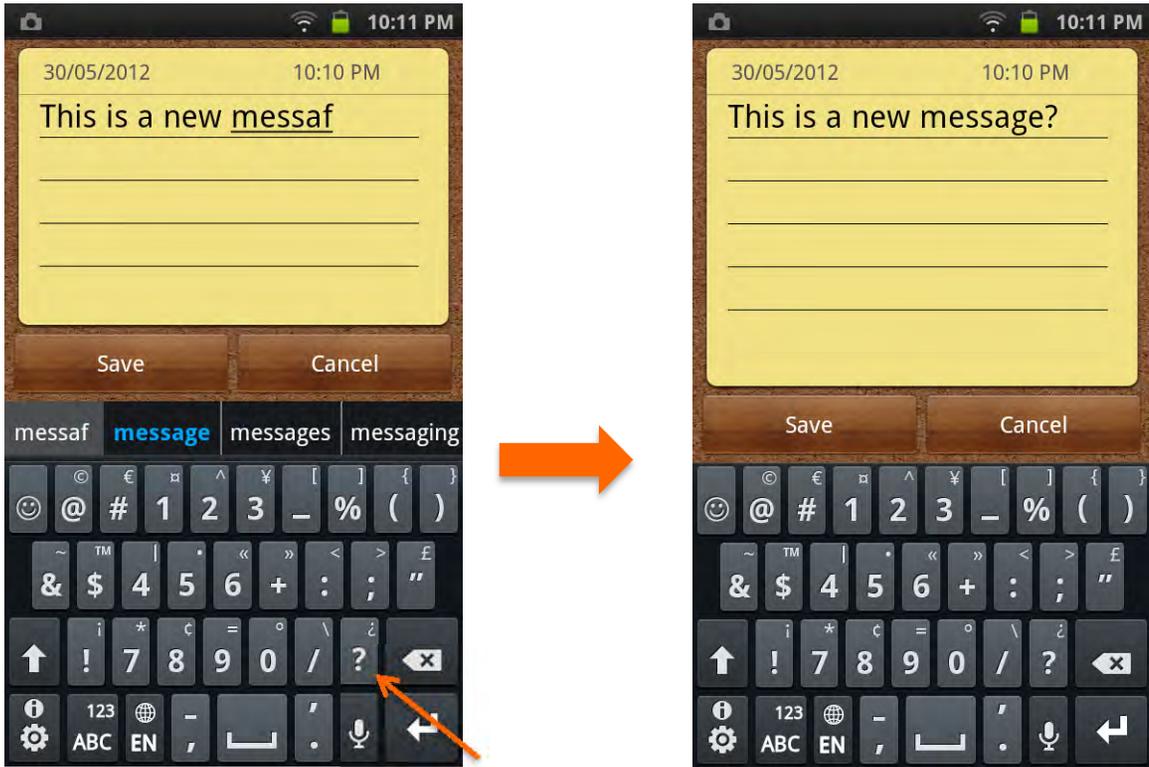
¹ Apple's inclusion of citations related to the claim preamble in this claim chart should not be interpreted as an admission that the preamble is limiting. Apple reserves the right to take the position that claim preambles are limiting or not limiting on a claim-by-claim basis.

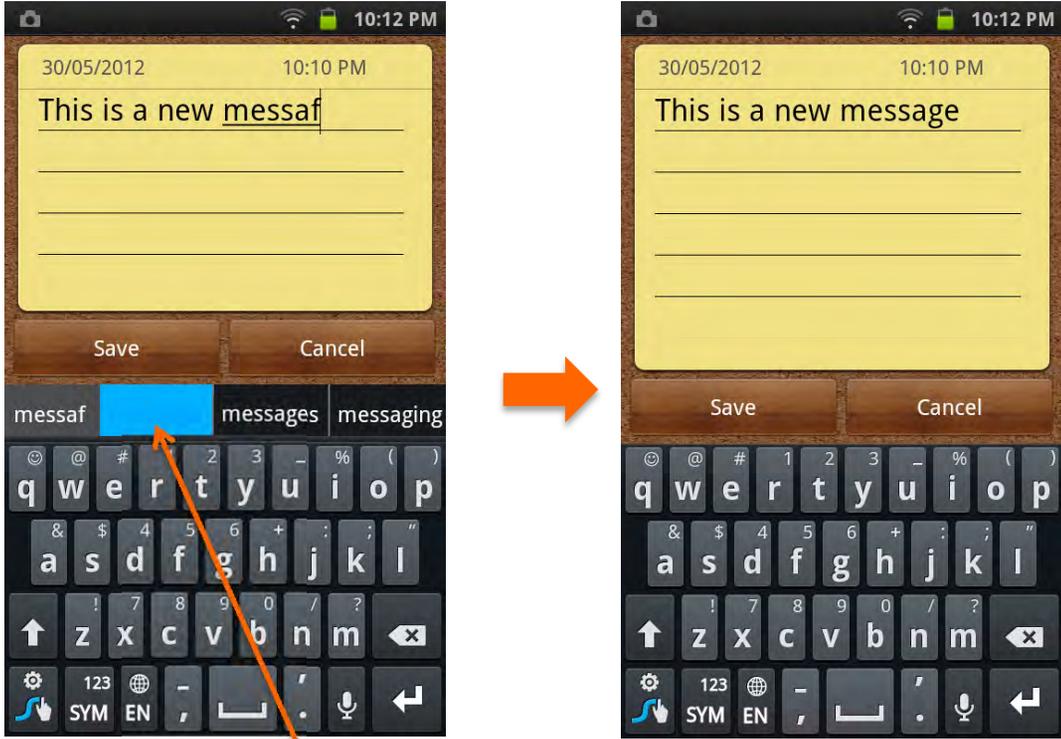
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Player 4.0												
	<p>As shown below, and in the Specifications, the Samsung Galaxy Player 4.0 includes a WVGA 800 by 480 pixel Super Clear LCD touch screen display. (<i>See id.</i>):</p> <div data-bbox="1186 402 1579 1144" data-label="Image"> </div> <table border="1" data-bbox="474 907 1110 1149"> <thead> <tr> <th colspan="2">Display</th> </tr> </thead> <tbody> <tr> <td>Display Resolution</td> <td>WVGA (800 x 480)</td> </tr> <tr> <td>Display Screen Size</td> <td>4.0"</td> </tr> <tr> <td>Type</td> <td>Super Clear LCD</td> </tr> </tbody> </table> <table border="1" data-bbox="474 1170 1024 1291"> <thead> <tr> <th colspan="2">Features</th> </tr> </thead> <tbody> <tr> <td>Touch Screen</td> <td>Multi-Touch</td> </tr> </tbody> </table>	Display		Display Resolution	WVGA (800 x 480)	Display Screen Size	4.0"	Type	Super Clear LCD	Features		Touch Screen	Multi-Touch
Display													
Display Resolution	WVGA (800 x 480)												
Display Screen Size	4.0"												
Type	Super Clear LCD												
Features													
Touch Screen	Multi-Touch												

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Player 4.0
	<p>The Samsung Galaxy Player 4.0 provides a graphical user interface and a virtual keyboard on a touch screen, as shown below:</p>  <p>The screenshot displays a mobile device interface. At the top, the status bar shows the time as 10:11 PM, along with icons for camera, Wi-Fi, and battery. Below this, a yellow text input field contains the text "This is a new <u>messaf</u>". Above the text, the date "30/05/2012" and time "10:10 PM" are visible. Below the text field are two buttons: "Save" and "Cancel". At the bottom of the screen is a virtual QWERTY keyboard. Above the keyboard, there are search suggestions: "messaf", "message", "messages", and "messaging". The keyboard includes standard alphanumeric keys, a spacebar, and function keys like "SYM", "EN", and a microphone icon.</p>

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Player 4.0
<p>first area of the touch screen display that displays a current character string being input by a user with the keyboard;</p>	<p>The Samsung Galaxy Player 4.0 displays a current character string being input by a user with the keyboard in a first area of the touch screen display. For example, in the Samsung Galaxy Player 4.0 Memo App, as the user the inputs the character string “messaf,” the Samsung Galaxy Player 4.0 displays “messaf” in a first area of the touch screen display (the portion of the screen outlined in yellow), which contains the text “This is a new messaf,” as shown in the screenshot below:</p>  <p>The screenshot shows a mobile application interface. At the top, the status bar displays the date '30/05/2012', the time '10:10 PM', and battery and signal icons. Below the status bar is a yellow text input field containing the text 'This is a new messaf'. The word 'messaf' is underlined. Below the input field are two buttons: 'Save' and 'Cancel'. At the bottom of the screen is a virtual QWERTY keyboard. The word 'messaf' is visible in the search bar above the keyboard, and the word 'message' is highlighted in blue. Other suggestions like 'messages' and 'messaging' are also visible.</p> <p>Other applications, such as the Email, Talk, Gmail, and Mini Diary applications, provide the same functionality.</p>

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Player 4.0
<p>in a second area of the touch screen display separate from the first area that displays the current character string or a portion thereof and a suggested replacement character string for the current character string;</p>	<p>In a second area of the touch screen display, the current string and a suggested replacement string are displayed.</p>  <p>The screenshot shows a text input area at the top with the text "This is a new messaf". Below the input area is a keyboard. The keyboard has a suggestion bar above it showing "messaf", "message", "messages", and "messaging". The word "message" is highlighted in blue. Annotations include: <ul style="list-style-type: none"> An orange arrow labeled "Current String" pointing to "messaf" in the input field. An orange arrow labeled "Suggested String" pointing to "message" in the suggestion bar. A green arrow labeled "Second Area" pointing to the keyboard area. </p> <p>The second area is located below the first area and differentiated by a different background color.</p> <p>Other applications, such as the Email, Talk, Gmail, and Mini Diary applications, provide the same functionality.</p>

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Player 4.0
<p>wherein; the current character string in the first area is replaced with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter;</p>	<p>The Samsung Galaxy Player 4.0 replaces the current character string in the first area with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter. For example, in the screenshots below, after the user selects the “?” key on the keyboard, a delimiter, the current character string “messaf” displayed in the first area is replaced with the suggested replacement “message.”</p> <div style="text-align: center;">  </div> <p style="text-align: center; color: orange; font-weight: bold;">User selects “?”</p> <p>Other applications, such as the Email, Talk, Gmail, and Mini Diary applications, provide the same functionality.</p>

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Player 4.0
<p>the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area; and</p>	<p>The Samsung Galaxy Player 4.0 replaces the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area. For example, in the screenshots below, after the user performs a first gesture of pressing on the suggested replacement string “message” displayed in the second area, the current character string displayed in the first area is replaced by the suggested string.</p> <div style="text-align: center;">  </div> <p style="text-align: center; color: orange; font-weight: bold;">User selects “message”</p> <p>Other applications, such as the Email, Talk, Gmail, and Mini Diary applications, provide the same functionality.</p>

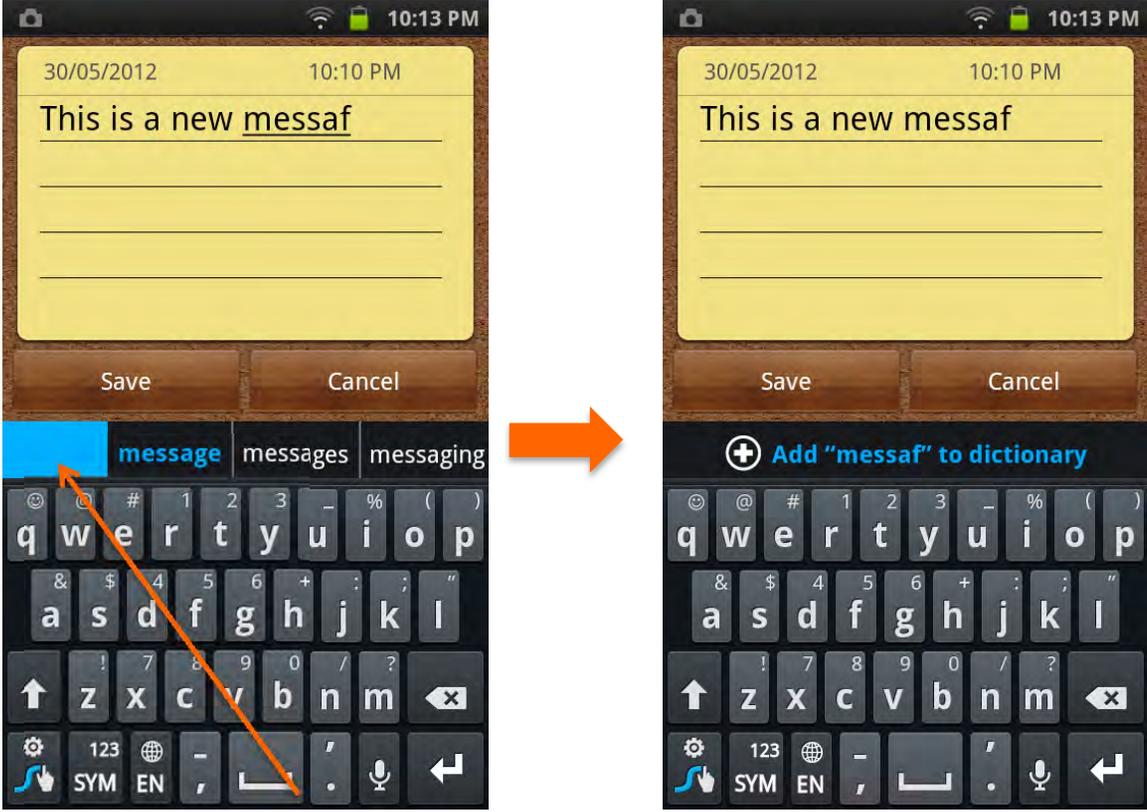
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Player 4.0
<p>the current character string in the first area is kept if the user performs a second gesture in the second area on the current character string or the portion thereof displayed in the second area.</p>	<p>If the user performs a second gesture of pressing on the current character string, the current character string is kept. For example, in the screenshots below, after the user taps on the “messaf” displayed in the second area, “messaf” is left as is in the first area of the display.</p>  <p style="text-align: center; color: orange;">User selects “messaf”</p> <p>Other applications, such as the Email, Talk, Gmail, and Mini Diary applications, provide the same functionality.</p>

EXHIBIT A9

GALAXY PLAYER 5.0

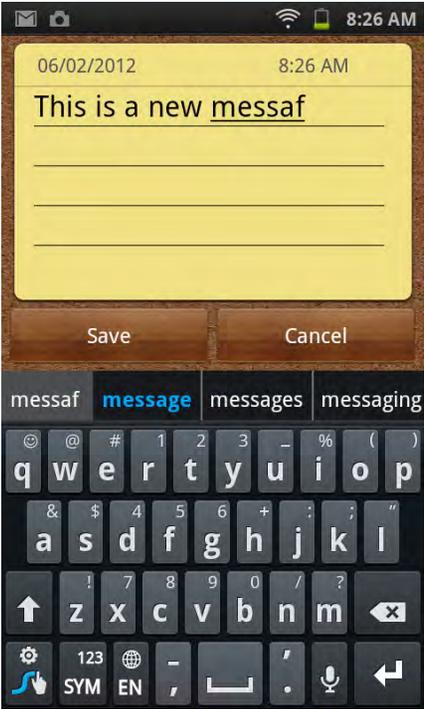
INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172

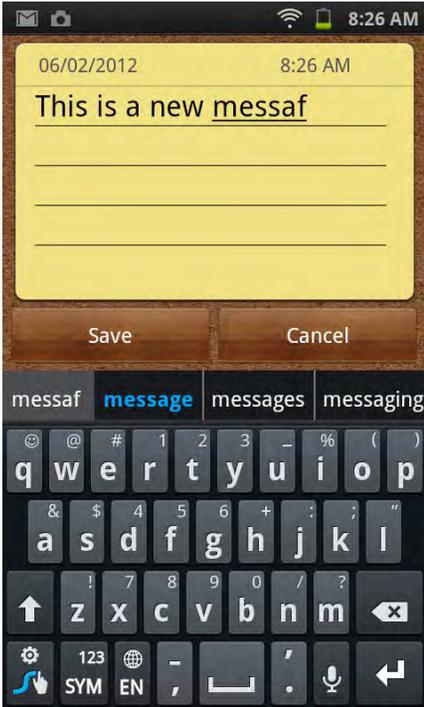
Infringement by Samsung Galaxy Player 5.0 of U.S. Patent No. 8,074,172

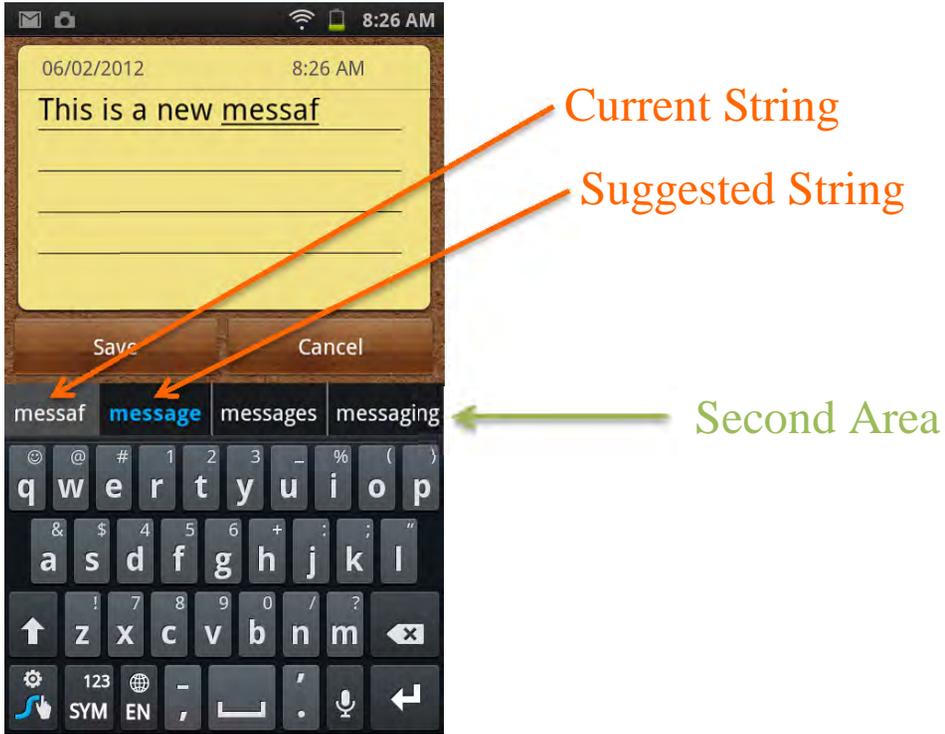
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Player 5.0						
<p>18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising¹:</p>	<p>To the extent that the preamble may be construed to be limiting, the Samsung Galaxy Player 5.0 provides a graphical user interface on a portable electronic device, as evidenced by the presence of an operating system, memory, and a touch screen display. See Galaxy Player 5.0: Specifications, available at http://www.samsung.com/us/mobile/mp3-players/YP-G70CWY/XAA-specs (“Specifications”).</p> <p>The Samsung Galaxy Player 5.0 runs on the Android operating system. <i>Id.</i></p> <p>The Samsung Galaxy Player 5.0 also has storage as indicated in the Specifications and indicated below. <i>Id.</i></p> <table border="1" data-bbox="564 708 1157 894"> <thead> <tr> <th colspan="2">General</th> </tr> </thead> <tbody> <tr> <td>Storage Type</td> <td>Flash Memory</td> </tr> <tr> <td>Memory Capacity</td> <td>8GB</td> </tr> </tbody> </table>	General		Storage Type	Flash Memory	Memory Capacity	8GB
General							
Storage Type	Flash Memory						
Memory Capacity	8GB						

¹ Apple's inclusion of citations related to the claim preamble in this claim chart should not be interpreted as an admission that the preamble is limiting. Apple reserves the right to take the position that claim preambles are limiting or not limiting on a claim-by-claim basis.

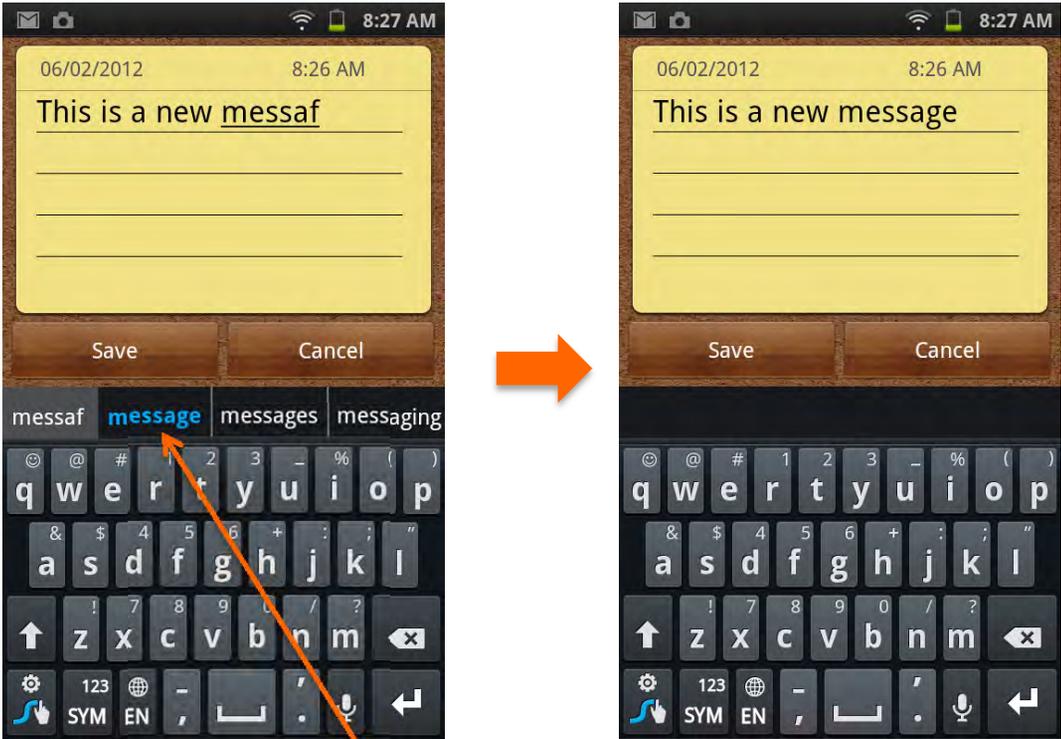
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Player 5.0												
	<p>As shown below and in the Specifications, the Samsung Galaxy Player 5.0 includes a WVGA 800 by 480 pixel LCD touch screen display. <i>See id.</i></p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <table border="1" data-bbox="472 922 1157 1170"> <thead> <tr> <th colspan="2" data-bbox="472 922 1157 982">Display</th> </tr> </thead> <tbody> <tr> <td data-bbox="472 982 800 1042">Display Resolution</td> <td data-bbox="800 982 1157 1042">WVGA (800 x 480)</td> </tr> <tr> <td data-bbox="472 1042 800 1102">Display Screen Size</td> <td data-bbox="800 1042 1157 1102">5.0"</td> </tr> <tr> <td data-bbox="472 1102 800 1170">Type</td> <td data-bbox="800 1102 1157 1170">LCD</td> </tr> </tbody> </table> <div data-bbox="1325 418 1738 1156"> </div> <table border="1" data-bbox="478 1192 1024 1312"> <thead> <tr> <th colspan="2" data-bbox="478 1192 1024 1252">Features</th> </tr> </thead> <tbody> <tr> <td data-bbox="478 1252 808 1312">Touch Screen</td> <td data-bbox="808 1252 1024 1312">Multi-Touch</td> </tr> </tbody> </table> </div>	Display		Display Resolution	WVGA (800 x 480)	Display Screen Size	5.0"	Type	LCD	Features		Touch Screen	Multi-Touch
Display													
Display Resolution	WVGA (800 x 480)												
Display Screen Size	5.0"												
Type	LCD												
Features													
Touch Screen	Multi-Touch												

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Player 5.0
	<p>The Samsung Galaxy Player 5.0 provides a graphical user interface and a virtual keyboard on a touch screen, as shown below:</p>  <p>The screenshot shows a mobile device interface. At the top, there is a status bar with icons for mail, camera, Wi-Fi, and battery, and the time 8:26 AM. Below that is a yellow text input area with the date 06/02/2012 and time 8:26 AM. The text 'This is a new messaf' is entered, with 'messaf' underlined. Below the text area are two buttons: 'Save' and 'Cancel'. At the bottom, there is a virtual keyboard with a QWERTY layout. Above the keyboard, there are search suggestions: 'messaf', 'message', 'messages', and 'messaging'. The keyboard includes standard alphanumeric keys, a shift key, a 'SYM' key, an 'EN' key, a microphone icon, and a return key.</p>

<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Galaxy Player 5.0</p>
<p>first area of the touch screen display that displays a current character string being input by a user with the keyboard;</p>	<p>The Samsung Galaxy Player 5.0 displays a current character string being input by a user with the keyboard in a first area of the touch screen display. For example, in the Samsung Galaxy Player 5.0 Memo App, as the user the inputs the character string “messaf,” the Samsung Galaxy Player 5.0 displays “messaf” in a first area of the touch screen display (the portion of the screen outlined in yellow), which contains the text “This is a new messaf,” as shown in the screenshot below:</p>  <p>The screenshot shows a mobile application interface. At the top, there is a status bar with icons for mail, camera, Wi-Fi, and battery, and the time 8:26 AM. Below that, a date and time header shows '06/02/2012' and '8:26 AM'. The main content area is a yellow rectangular box containing the text 'This is a new messaf'. Below the text are three horizontal lines for additional input. At the bottom of the yellow box are two buttons: 'Save' and 'Cancel'. Below the yellow box is a virtual keyboard with a search bar containing 'messaf' and suggestions for 'message', 'messages', and 'messaging'. The keyboard layout includes letters, numbers, symbols, and function keys like backspace and enter.</p> <p>Other applications, such as the Email, Mini Diary, Talk, and Gmail applications, provide the same functionality.</p>

<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Galaxy Player 5.0</p>
<p>in a second area of the touch screen display separate from the first area that displays the current character string or a portion thereof and a suggested replacement character string for the current character string;</p>	<p>In a second area of the touch screen display, the current string and a suggested replacement string are displayed.</p>  <p>The screenshot shows a text input field with the text "This is a new messaf". Below the input field are "Save" and "Cancel" buttons. Below the buttons is a keyboard with suggestions: "messaf", "message", "messages", and "messaging". The word "message" is highlighted in blue. Three arrows point to specific elements: an orange arrow from "Current String" points to "messaf", another orange arrow from "Suggested String" points to "message", and a green arrow from "Second Area" points to the keyboard area.</p> <p>The second area is located below the first area and differentiated by a different background color.</p> <p>Other applications, such as the Email, Mini Diary, Talk, and Gmail applications, provide the same functionality.</p>

<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Galaxy Player 5.0</p>
<p>wherein; the current character string in the first area is replaced with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter;</p>	<p>The Samsung Galaxy Player 5.0 replaces the current character string in the first area with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter. For example, in the screenshots below, after the user selects the “?” key on the keyboard, a delimiter, the current character string “messaf” displayed in the first area is replaced with the suggested replacement “message.”</p>  <p style="text-align: center; color: orange;">User selects “?”</p> <p>Other applications, such as the Email, Mini Diary, Talk, and Gmail applications, provide the same functionality.</p>

<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Galaxy Player 5.0</p>
<p>the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area; and</p>	<p>The Samsung Galaxy Player 5.0 replaces the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area. For example, in the screenshots below, after the user performs a first gesture of pressing on the suggested replacement string “message” displayed in the second area, the current character string displayed in the first area is replaced by the suggested string.</p> <div style="text-align: center;">  <p data-bbox="478 1273 926 1320">User selects “message”</p> </div> <p>Other applications, such as the Email, Mini Diary, Talk, and Gmail applications, provide the same functionality.</p>

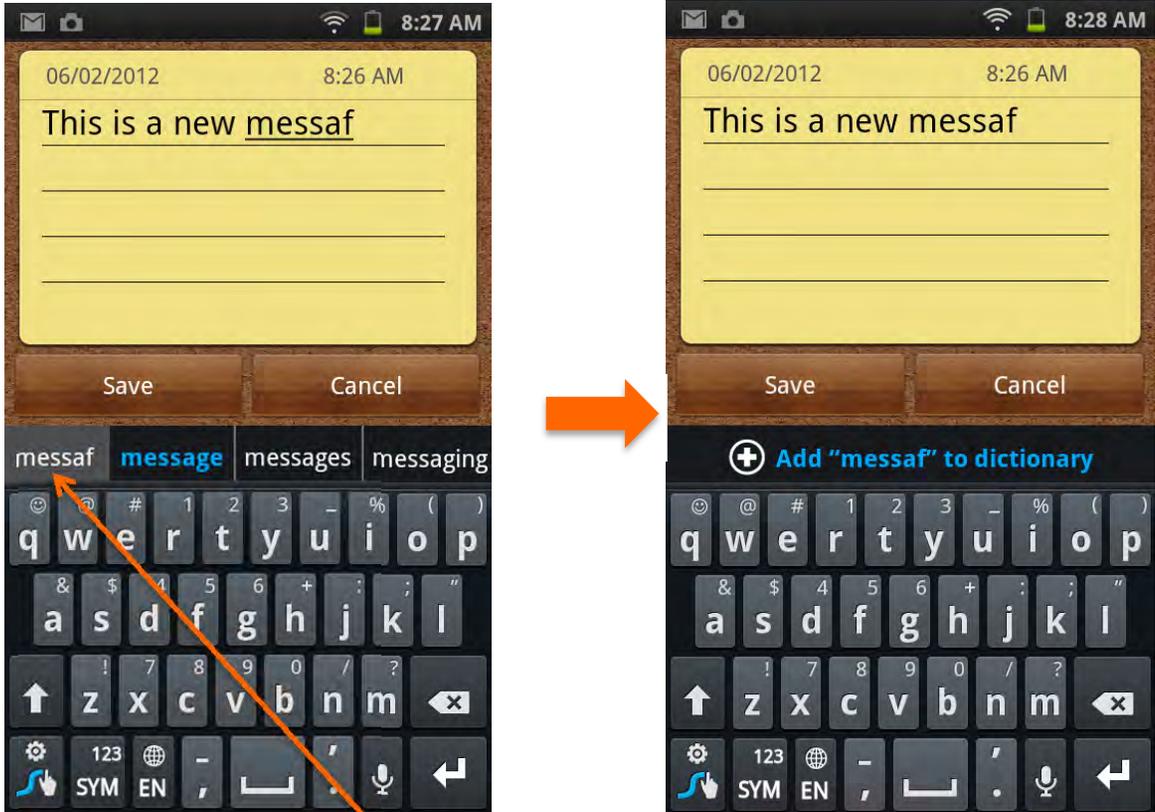
<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Galaxy Player 5.0</p>
<p>the current character string in the first area is kept if the user performs a second gesture in the second area on the current character string or the portion thereof displayed in the second area.</p>	<p>If the user performs a second gesture of pressing on the current character string, the current character string is kept. For example, in the screenshots below, after the user taps on the “messaf” displayed in the second area, “messaf” is left as is in the first area of the display.</p> <div style="text-align: center;">  </div> <p style="text-align: center; color: orange; font-weight: bold;">User selects “messaf”</p> <p>Other applications, such as the Email, Mini Diary, Talk, and Gmail applications, provide the same functionality.</p>

EXHIBIT A10

GALAXY SII EPIC 4G TOUCH

INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172

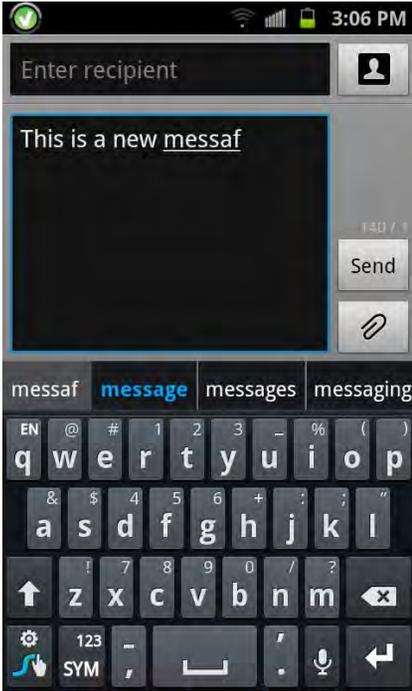
Infringement by Samsung Galaxy SII Epic 4G Touch of U.S. Patent No. 8,074,172

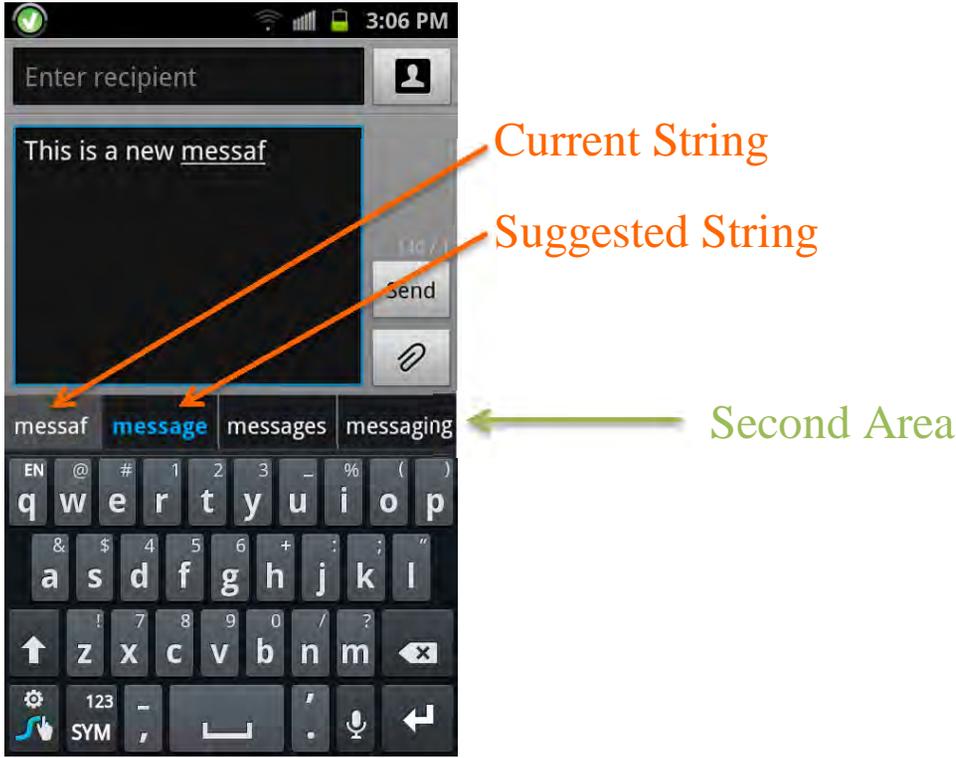
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy SII Epic 4G Touch										
<p>18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising¹:</p>	<p>To the extent that the preamble may be construed to be limiting, the Samsung Galaxy SII Epic 4G Touch provides a graphical user interface on a portable electronic device, as evidenced by the presence of a CPU, memory devices, and a display device.</p> <p>The Samsung Galaxy SII Epic 4G Touch has a 1.2 GHz dual core processor. <i>See</i> Galaxy SII Epic 4G Touch, Specifications, available at http://www.samsung.com/us/mobile/cell-phones/SPH-D710ZKASPR-specs (“Specifications”).</p> <table border="1" data-bbox="470 683 1362 829"> <thead> <tr> <th colspan="2">CPU / Processor</th> </tr> </thead> <tbody> <tr> <td>Processor Speed, Type</td> <td>1.2 GHz, Dual Core (Samsung Exnyos C210)</td> </tr> </tbody> </table> <p>The Samsung Galaxy SII Epic 4G Touch also has memory as indicated in the Specifications and indicated below. <i>Id.</i></p> <table border="1" data-bbox="478 951 1094 1195"> <thead> <tr> <th colspan="2">Memory</th> </tr> </thead> <tbody> <tr> <td>Internal Memory</td> <td>16GB</td> </tr> <tr> <td>External Memory/microSD™ Capacity</td> <td>32GB</td> </tr> </tbody> </table>	CPU / Processor		Processor Speed, Type	1.2 GHz, Dual Core (Samsung Exnyos C210)	Memory		Internal Memory	16GB	External Memory/microSD™ Capacity	32GB
CPU / Processor											
Processor Speed, Type	1.2 GHz, Dual Core (Samsung Exnyos C210)										
Memory											
Internal Memory	16GB										
External Memory/microSD™ Capacity	32GB										

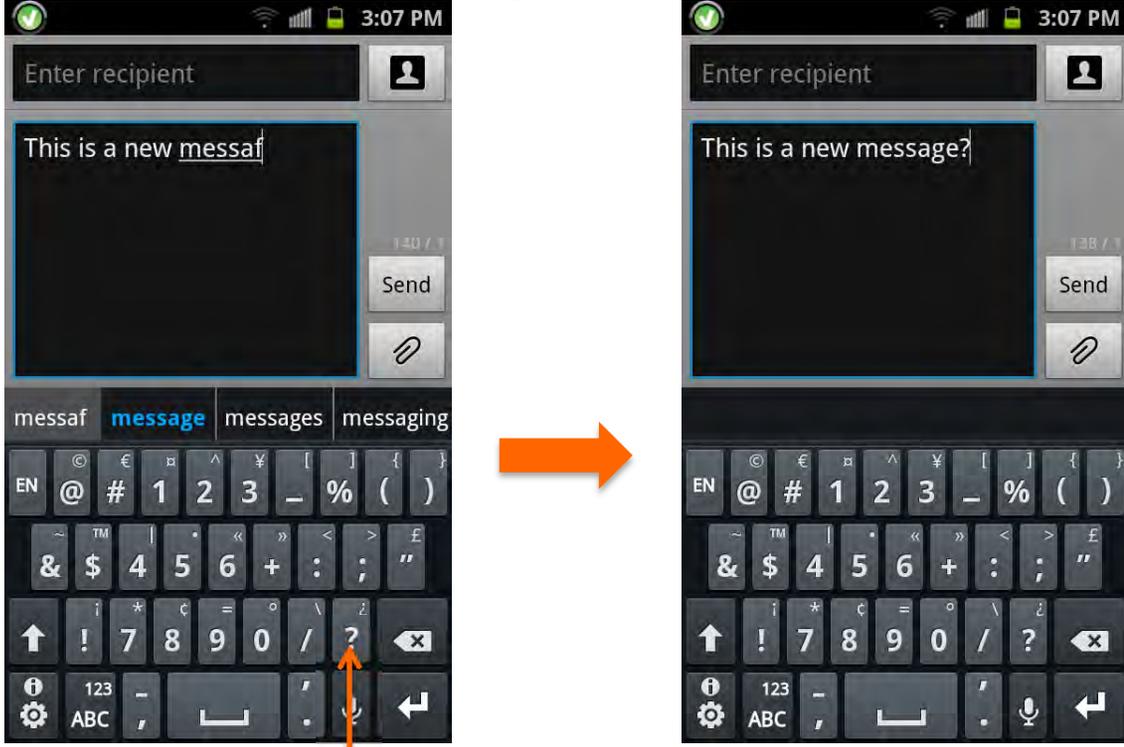
¹ Apple's inclusion of citations related to the claim preamble in this claim chart should not be interpreted as an admission that the preamble is limiting. Apple reserves the right to take the position that claim preambles are limiting or not limiting on a claim-by-claim basis.

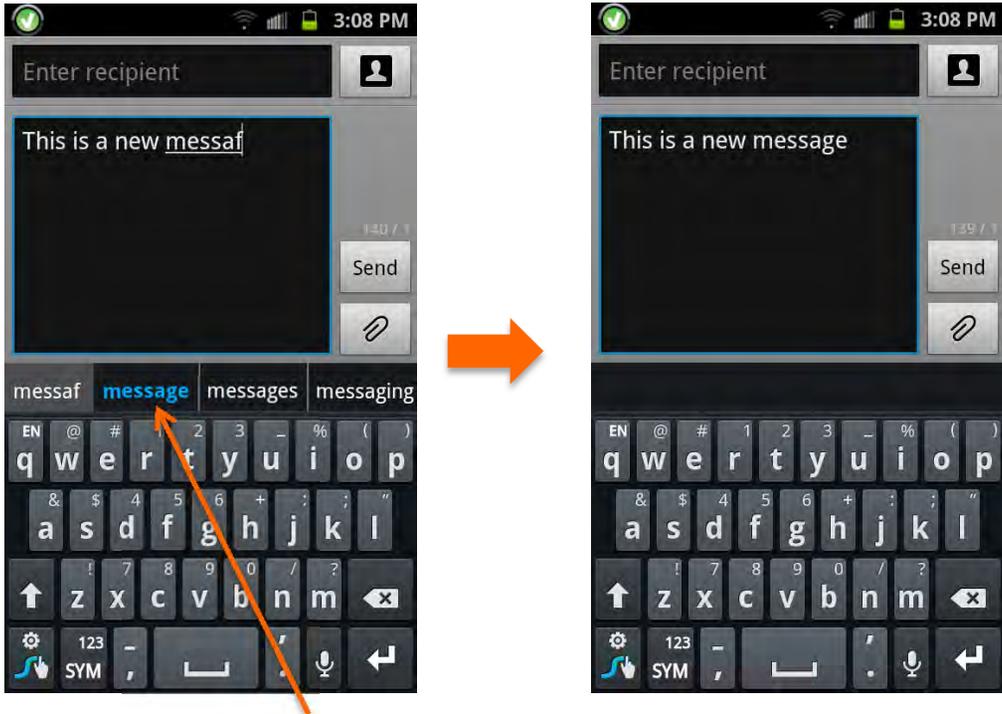
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy SII Epic 4G Touch								
	<p data-bbox="466 310 1953 378">As shown below and in the Specifications, the Samsung Galaxy SII Epic 4G Touch's CPU is coupled to a 4.52 inch, 800x480 pixel color Super AMOLED Plus touch screen display. <i>See id.</i></p> <div data-bbox="466 834 1129 1143"> <table border="1"> <thead> <tr> <th colspan="2" data-bbox="472 839 1123 898">Display</th> </tr> </thead> <tbody> <tr> <td data-bbox="472 898 800 989">Main Display Resolution</td> <td data-bbox="800 898 1123 989">800x480 Pixel</td> </tr> <tr> <td data-bbox="472 989 800 1052">Main Display Size</td> <td data-bbox="800 989 1123 1052">4.52"</td> </tr> <tr> <td data-bbox="472 1052 800 1143">Main Display Technology</td> <td data-bbox="800 1052 1123 1143">Super AMOLED Plus</td> </tr> </tbody> </table> </div> <div data-bbox="1323 402 1732 1136"> </div>	Display		Main Display Resolution	800x480 Pixel	Main Display Size	4.52"	Main Display Technology	Super AMOLED Plus
Display									
Main Display Resolution	800x480 Pixel								
Main Display Size	4.52"								
Main Display Technology	Super AMOLED Plus								

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy SII Epic 4G Touch
	<p>The Samsung Galaxy SII Epic 4G Touch provides a graphical user interface and a virtual keyboard on a touch screen, as shown below:.</p> 

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy SII Epic 4G Touch
<p>first area of the touch screen display that displays a current character string being input by a user with the keyboard;</p>	<p>The Samsung Galaxy SII Epic 4G Touch displays a current character string being input by a user with the keyboard in a first area of the touch screen display. For example, in the Samsung Galaxy SII Epic 4G Touch Messaging App, as the user the inputs the character string “messaf,” the Samsung Galaxy SII Epic 4G Touch displays “messaf” in a first area of the touch screen display (the rectangular-shaped area of the screen outlined in blue), which contains the text “This is a new messaf,” as shown in the screenshot below:</p>  <p>Other applications, such as the Email, Talk, and Tasks applications, provide the same functionality.</p>

<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Galaxy SII Epic 4G Touch</p>
<p>in a second area of the touch screen display separate from the first area that displays the current character string or a portion thereof and a suggested replacement character string for the current character string;</p>	<p>In a second area of the touch screen display, the current string and a suggested replacement string are displayed.</p>  <p>The second area is located below the first area and separated by a gray border.</p> <p>Other applications, such as the Email, Talk, and Tasks applications, provide the same functionality.</p>

<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Galaxy SII Epic 4G Touch</p>
<p>wherein; the current character string in the first area is replaced with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter;</p>	<p>The Samsung Galaxy SII Epic 4G Touch replaces the current character string in the first area with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter. For example, in the screenshots below, after the user selects the “?” key on the keyboard, a delimiter, the current character string “messaf” displayed in the first area is replaced with the suggested replacement “message.”</p>  <p style="text-align: center; color: orange;">User selects “?”</p> <p>Other applications, such as the Email, Talk, and Tasks applications, provide the same functionality.</p>

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy SII Epic 4G Touch
<p>the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area; and</p>	<p>The Samsung Galaxy SII Epic 4G Touch replaces the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area. For example, in the screenshots below, after the user performs a first gesture of pressing on the suggested replacement string “message” displayed in the second area, the current character string displayed in the first area is replaced by the suggested string.</p>  <p>User selects “message”</p> <p>Other applications, such as the Email, Talk, and Tasks applications, provide the same functionality.</p>

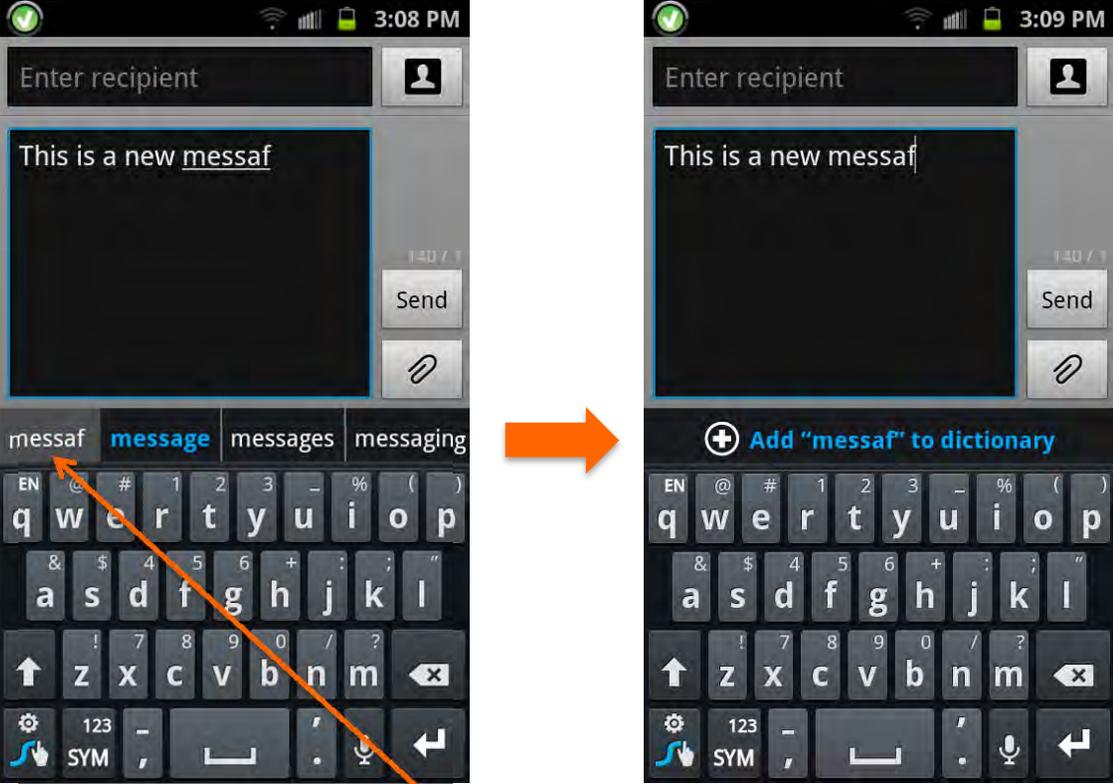
<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Galaxy SII Epic 4G Touch</p>
<p>the current character string in the first area is kept if the user performs a second gesture in the second area on the current character string or the portion thereof displayed in the second area.</p>	<p>If the user performs a second gesture of pressing on the current character string, the current character string is kept. For example, in the screenshots below, after the user taps on the “messaf” displayed in the second area, “messaf” is left as is in the first area of the display.</p>  <p style="text-align: center; color: orange;">User selects “messaf”</p> <p>Other applications, such as the Email, Talk, and Tasks applications, provide the same functionality.</p>

EXHIBIT A11

GALAXY SII SKYROCKET

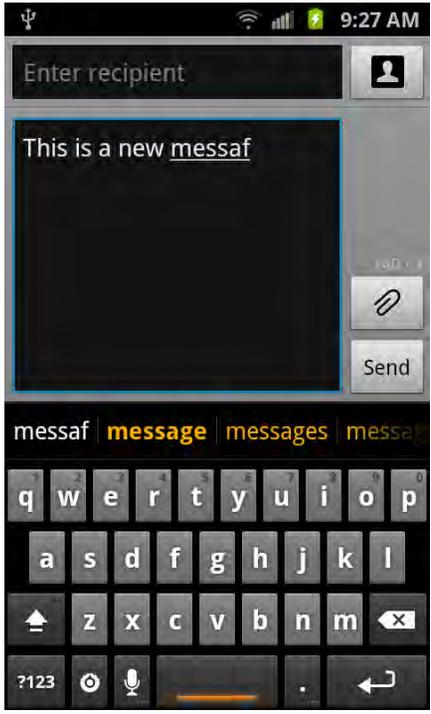
INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172

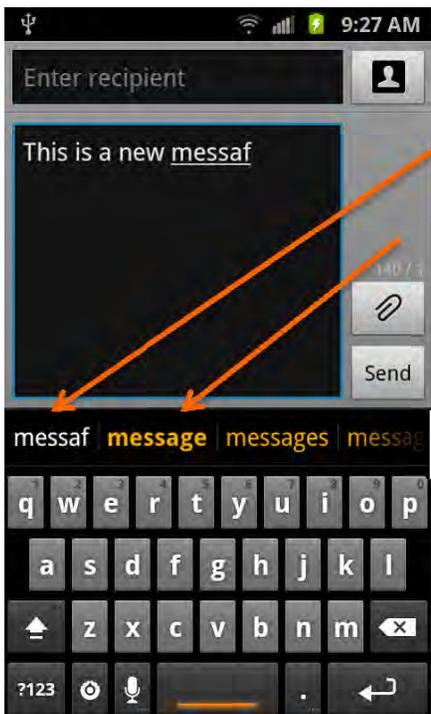
Infringement by Samsung Galaxy SII Skyrocket of U.S. Patent No. 8,074,172

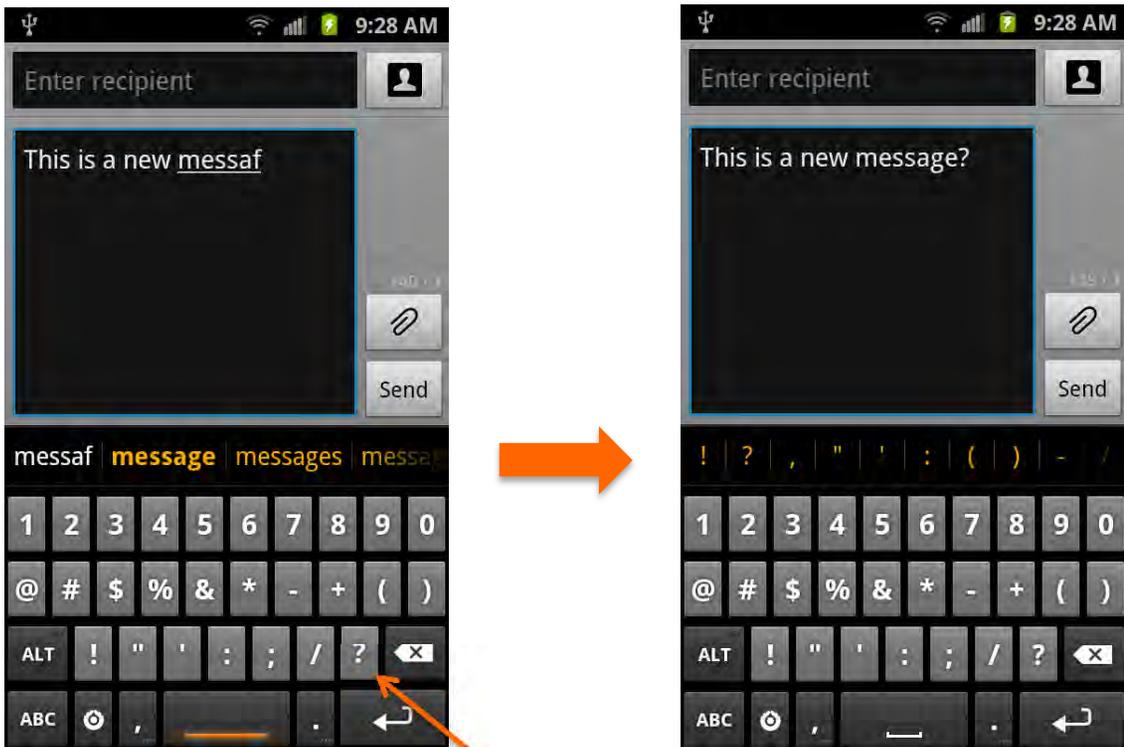
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy SII Skyrocket								
<p>18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising¹:</p>	<p>To the extent that the preamble may be construed to be limiting, the Samsung Galaxy SII Skyrocket provides a graphical user interface on a portable electronic device, as evidenced by the presence of a CPU, memory devices, and a display device.</p> <p>The Samsung Galaxy SII Skyrocket has a 1.5 GHz dual core processor. <i>See</i> Galaxy SII Skyrocket, Specifications, available at http://www.samsung.com/us/mobile/cell-phones/SGH-I727MSAATT-specs (“Specifications”).</p> <table border="1" data-bbox="470 646 1188 792"> <thead> <tr> <th colspan="2">CPU</th> </tr> </thead> <tbody> <tr> <td>Processor Speed, Type</td> <td>1.5 GHz dual-core processor</td> </tr> </tbody> </table> <p>The Samsung Galaxy SII Skyrocket also has memory as indicated in the Specifications and indicated below. <i>Id.</i></p> <table border="1" data-bbox="480 919 945 1040"> <thead> <tr> <th colspan="2">Memory</th> </tr> </thead> <tbody> <tr> <td>Internal Memory</td> <td>16GB</td> </tr> </tbody> </table>	CPU		Processor Speed, Type	1.5 GHz dual-core processor	Memory		Internal Memory	16GB
CPU									
Processor Speed, Type	1.5 GHz dual-core processor								
Memory									
Internal Memory	16GB								

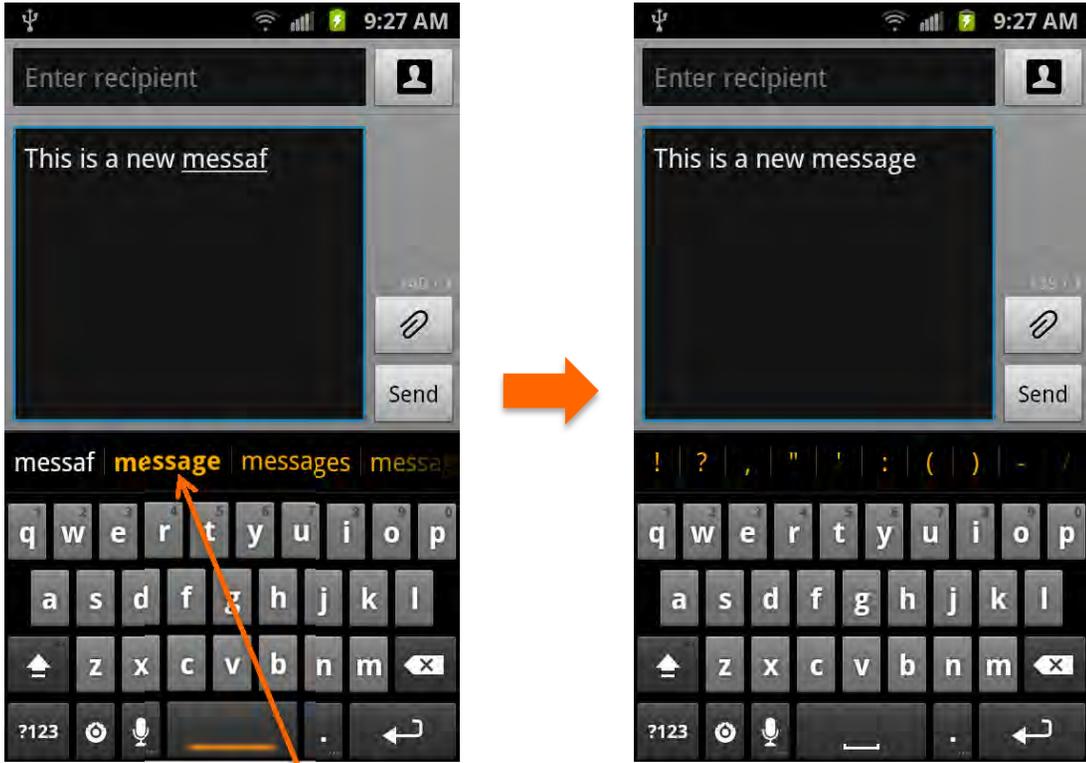
¹ Apple's inclusion of citations related to the claim preamble in this claim chart should not be interpreted as an admission that the preamble is limiting. Apple reserves the right to take the position that claim preambles are limiting or not limiting on a claim-by-claim basis.

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy SII Skyrocket								
	<p data-bbox="470 306 1877 375">As shown below, and in the Specifications, the Samsung Galaxy SII Skyrocket's CPU is coupled to a 4.5 inch, 800x480 pixel color Super AMOLED Plus touch screen display. <i>See id.</i></p> <div data-bbox="474 509 1140 807"> <table border="1"> <thead> <tr> <th colspan="2">Display</th> </tr> </thead> <tbody> <tr> <td>Main Display Resolution</td> <td>800x480 pixels</td> </tr> <tr> <td>Main Display Size</td> <td>4.5"</td> </tr> <tr> <td>Main Display Technology</td> <td>Super AMOLED™ Plus</td> </tr> </tbody> </table> </div> <div data-bbox="1333 396 1554 802"> </div> <p data-bbox="470 824 1940 893">The Samsung Galaxy SII Skyrocket provides a graphical user interface and a virtual keyboard on a touch screen, as shown below::</p> <div data-bbox="470 911 743 1369"> </div>	Display		Main Display Resolution	800x480 pixels	Main Display Size	4.5"	Main Display Technology	Super AMOLED™ Plus
Display									
Main Display Resolution	800x480 pixels								
Main Display Size	4.5"								
Main Display Technology	Super AMOLED™ Plus								

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy SII Skyrocket
<p>first area of the touch screen display that displays a current character string being input by a user with the keyboard;</p>	<p>The Samsung Galaxy SII Skyrocket displays a current character string being input by a user with the keyboard in a first area of the touch screen display. For example, in the Samsung Galaxy SII Skyrocket Messaging App, as the user inputs the character string “messaf,” the Samsung Galaxy SII Skyrocket displays “messaf” in a first area of the touch screen display (the rectangular-shaped area of the screen outlined in blue), which contains the text “This is a new messaf,” as shown in the screenshot below:</p>  <p>The screenshot shows a messaging application interface. At the top, there is a status bar with the time 9:27 AM and various icons. Below that is a header with 'Enter recipient' and a profile icon. The main text area contains the message 'This is a new messaf', where 'messaf' is underlined. To the right of the text area are icons for attachments and a 'Send' button. At the bottom, a keyboard is visible with the word 'messaf' highlighted in yellow, and suggestions for 'message', 'messages', and 'messa' are shown above it.</p> <p>Other applications, such as the Email, Memo, Gmail, Talk, Mini Diary, and Task applications, provide the same functionality.</p>

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy SII Skyrocket
<p>in a second area of the touch screen display separate from the first area that displays the current character string or a portion thereof and a suggested replacement character string for the current character string;</p>	<p>In a second area of the touch screen display, the current string and a suggested replacement string are displayed.</p>  <p>The screenshot shows a text input interface. At the top, there is a status bar with the time 9:27 AM and various icons. Below that is a header 'Enter recipient' with a person icon. The main text area contains 'This is a new <u>messaf</u>'. Below the text area is a gray border, and below that is a second area containing a list of suggestions: 'messaf', 'message', 'messages', and 'messag'. The word 'message' is highlighted in yellow. Below the suggestions is a QWERTY keyboard. Orange arrows point from the text 'Current String' to the underlined 'messaf' and from 'Suggested String' to the highlighted 'message'. A green arrow points from the text 'Second Area' to the gray border area.</p> <p>Current String</p> <p>Suggested String</p> <p>Second Area</p> <p>The second area is located below the first area and separated by a gray border.</p> <p>Other applications, such as the Email, Memo, Gmail, Talk, Mini Diary, and Task applications, provide the same functionality.</p>

<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Galaxy SII Skyrocket</p>
<p>wherein; the current character string in the first area is replaced with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter;</p>	<p>The Samsung Galaxy SII Skyrocket replaces the current character string in the first area with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter. For example, in the screenshots below, after the user selects the “?” key on the keyboard, a delimiter, the current character string “messaf” displayed in the first area is replaced with the suggested replacement “message.”</p> <div style="text-align: center;">  </div> <p style="text-align: center; color: orange; font-weight: bold;">User selects “?”</p> <p>Other applications, such as the Email, Memo, Gmail, Talk, Mini Diary, and Task applications, provide the same functionality.</p>

<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Galaxy SII Skyrocket</p>
<p>the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area; and</p>	<p>The Samsung Galaxy SII Skyrocket replaces the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area. For example, in the screenshots below, after the user performs a first gesture of pressing on the suggested replacement string “message” displayed in the second area, the current character string displayed in the first area is replaced by the suggested string.</p>  <p style="text-align: center; color: orange;">User selects “message”</p> <p>Other applications, such as the Email, Memo, Gmail, Talk, Mini Diary, and Task applications, provide the same functionality.</p>

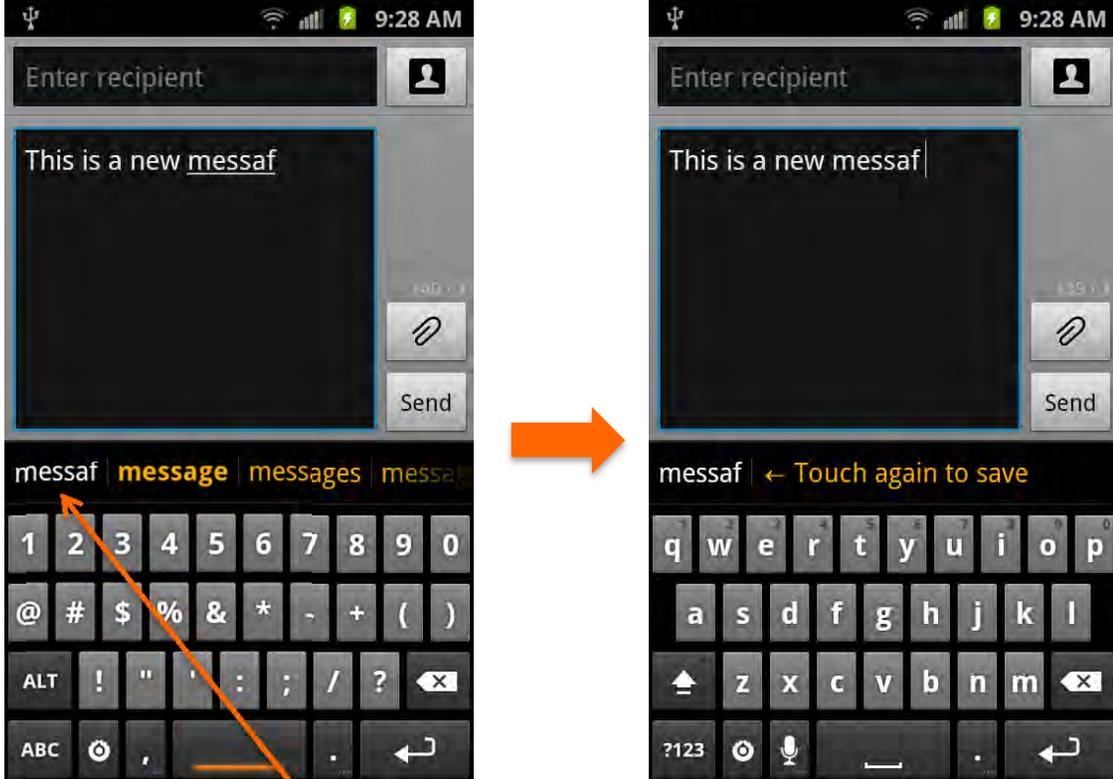
<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Galaxy SII Skyrocket</p>
<p>the current character string in the first area is kept if the user performs a second gesture in the second area on the current character string or the portion thereof displayed in the second area.</p>	<p>If the user performs a second gesture of pressing on the current character string, the current character string is kept. For example, in the screenshots below, after the user taps on the “messaf” displayed in the second area, “messaf” is left as is in the first area of the display.</p>  <p style="text-align: center; color: orange;">User selects “messaf”</p> <p>Other applications, such as the Email, Memo, Gmail, Talk, Mini Diary, and Task applications, provide the same functionality.</p>

EXHIBIT A12

STRATOSPHERE

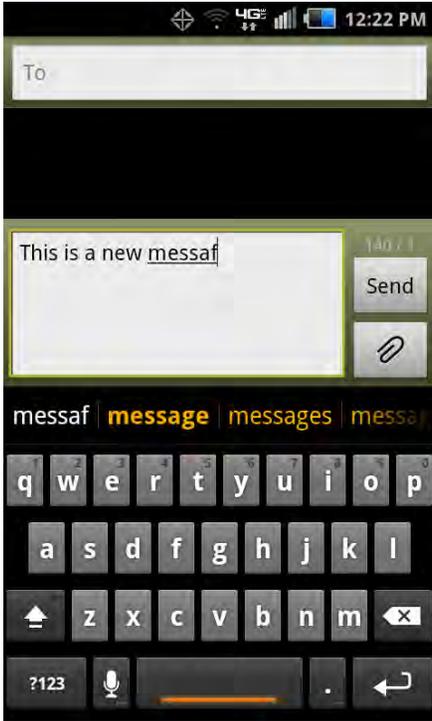
INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172

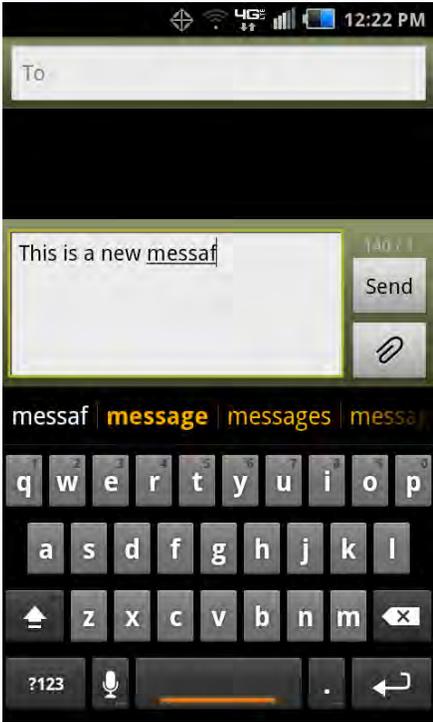
Infringement by Samsung Stratosphere of U.S. Patent No. 8,074,172

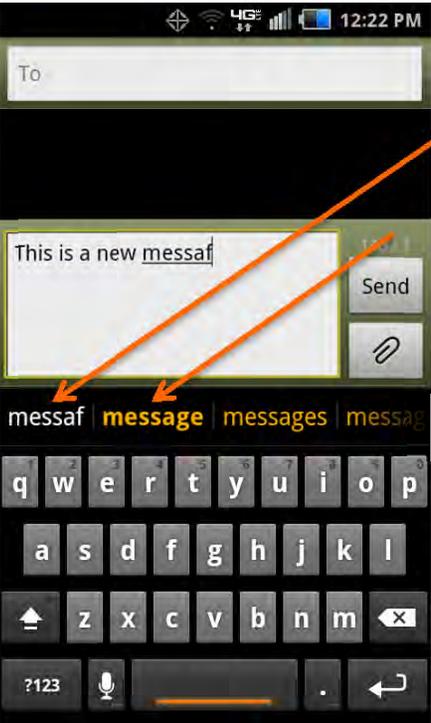
Claim 18 of the '172 Patent	Infringement by Samsung Stratosphere								
<p>18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising¹:</p>	<p>To the extent that the preamble may be construed to be limiting, the Samsung Stratosphere provides a graphical user interface on a portable electronic device, as evidenced by the presence of a CPU, memory devices, and a display device.</p> <p>The Samsung Stratosphere has a 1 GHz processor. <i>See</i> Stratosphere, Specifications, available at http://www.samsung.com/us/mobile/cell-phones/SCH-I405ZWBVZW-specs (“Specifications”).</p> <table border="1" data-bbox="468 654 1459 808"> <thead> <tr> <th colspan="2">CPU</th> </tr> </thead> <tbody> <tr> <td>Processor Speed, Type</td> <td>VIA CBP7.1 + CMC220(LTE) + AP (S5PC111, 1GHz)</td> </tr> </tbody> </table> <p>The Samsung Stratosphere also has memory as indicated in the Specifications and indicated below. <i>Id.</i></p> <table border="1" data-bbox="476 933 942 1057"> <thead> <tr> <th colspan="2">Memory</th> </tr> </thead> <tbody> <tr> <td>Internal Memory</td> <td>4GB</td> </tr> </tbody> </table>	CPU		Processor Speed, Type	VIA CBP7.1 + CMC220(LTE) + AP (S5PC111, 1GHz)	Memory		Internal Memory	4GB
CPU									
Processor Speed, Type	VIA CBP7.1 + CMC220(LTE) + AP (S5PC111, 1GHz)								
Memory									
Internal Memory	4GB								

¹ Apple's inclusion of citations related to the claim preamble in this claim chart should not be interpreted as an admission that the preamble is limiting. Apple reserves the right to take the position that claim preambles are limiting or not limiting on a claim-by-claim basis.

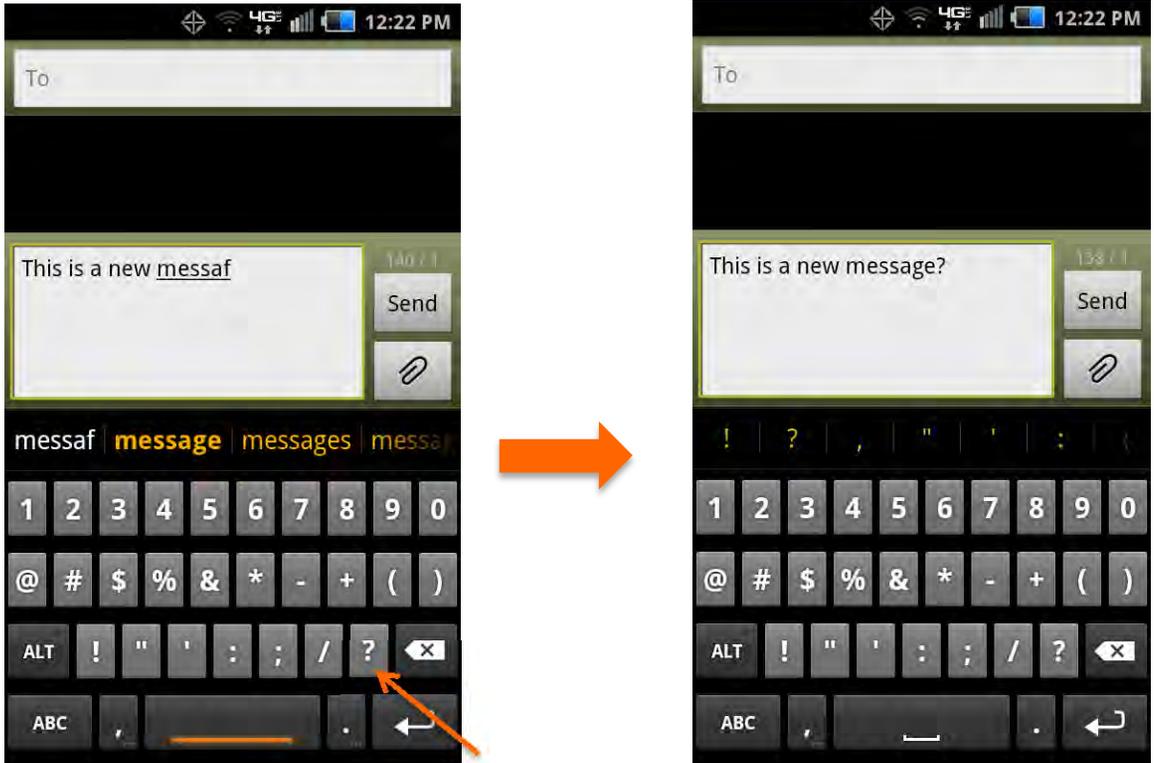
Claim 18 of the '172 Patent	Infringement by Samsung Stratosphere										
	<p>As shown below and in the Specifications, the Samsung Stratosphere's CPU is coupled to a 4.0 inch, 800x480 pixel color Super AMOLED touch screen display. <i>See id.</i></p> <div data-bbox="474 781 1121 1151" data-label="Table"> <table border="1"> <thead> <tr> <th colspan="2">Display</th> </tr> </thead> <tbody> <tr> <td>Main Display Resolution</td> <td>800x480 Pixel</td> </tr> <tr> <td>Main Display Size</td> <td>4.0"</td> </tr> <tr> <td>Main Display Technology</td> <td>Super AMOLED</td> </tr> <tr> <td>Touch Screen</td> <td>Yes</td> </tr> </tbody> </table> </div> <div data-bbox="1339 415 1719 1143" data-label="Image"> </div>	Display		Main Display Resolution	800x480 Pixel	Main Display Size	4.0"	Main Display Technology	Super AMOLED	Touch Screen	Yes
Display											
Main Display Resolution	800x480 Pixel										
Main Display Size	4.0"										
Main Display Technology	Super AMOLED										
Touch Screen	Yes										

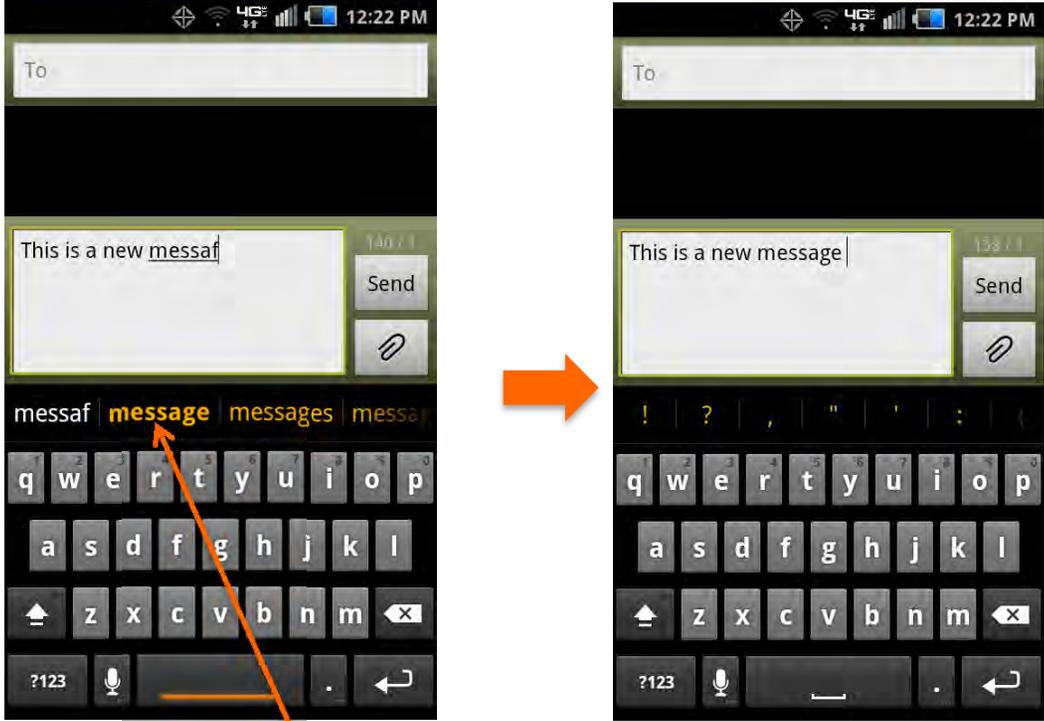
Claim 18 of the '172 Patent	Infringement by Samsung Stratosphere
	<p>For further example, the Samsung Stratosphere provides a graphical user interface and a virtual keyboard on a touch screen, as shown below:</p>  <p>The screenshot displays the messaging application on the Samsung Stratosphere. At the top, the status bar shows the time as 12:22 PM, along with icons for signal strength, 4G connectivity, and battery level. Below the status bar is a 'To:' field. The main text input area contains the text 'This is a new messaf'. To the right of the input area are 'Send' and attachment icons. A predictive text bar below the input area shows suggestions: 'messaf', 'message', 'messages', and 'messa'. A full QWERTY virtual keyboard is visible at the bottom of the screen.</p>

Claim 18 of the '172 Patent	Infringement by Samsung Stratosphere
<p>first area of the touch screen display that displays a current character string being input by a user with the keyboard;</p>	<p>The Samsung Stratosphere displays a current character string being input by a user with the keyboard in a first area of the touch screen display. For example, in the Samsung Stratosphere Messaging App, as the user the inputs the character string “messaf,” the Samsung Stratosphere displays “messaf” in a first area of the touch screen display (the rectangular-shaped area of the screen outlined in green), which contains the text “This is a new messaf,” as shown in the screenshot below:</p>  <p>The screenshot shows a mobile messaging interface. At the top, there is a status bar with icons for signal, Wi-Fi, and battery, and the time 12:22 PM. Below that is a 'To:' field. The main text input area contains the text 'This is a new messaf' with a cursor at the end. To the right of the text input area are 'Send' and 'Attach' buttons. Below the text input area is a keyboard with a search bar above it containing 'messaf' and suggestions for 'message', 'messages', and 'messaf'. The text input area is highlighted with a green border.</p> <p>Other applications, such as the Email, Gmail, Memo, and Talk applications, provide the same functionality.</p>

Claim 18 of the '172 Patent	Infringement by Samsung Stratosphere
<p>in a second area of the touch screen display separate from the first area that displays the current character string or a portion thereof and a suggested replacement character string for the current character string;</p>	<p>In a second area of the touch screen display, the current string and a suggested replacement string are displayed.</p>  <p>The screenshot shows a text input field containing "This is a new messaf". Below the input field is a suggestion bar with four options: "messaf", "message", "messages", and "messag". The word "message" is highlighted in orange. Orange arrows point from the text "Current String" to the input field and from "Suggested String" to the suggestion bar. A green arrow points from the text "Second Area" to the suggestion bar.</p> <p>The second area is located below the first area and separated by a dark green border.</p> <p>Other applications, such as the Email, Gmail, Memo, and Talk applications, provide the same functionality.</p>

Claim 18 of the '172 Patent	Infringement by Samsung Stratosphere
wherein; the current character string in the first area is replaced with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter;	The Samsung Stratosphere replaces the current character string in the first area with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter. For example, in the screenshots below, after the user selects the “?” key on the keyboard, a delimiter, the current character string “messaf” displayed in the first area is replaced with the suggested replacement “message.”

Claim 18 of the '172 Patent	Infringement by Samsung Stratosphere
	 <p data-bbox="793 1091 1096 1133" style="text-align: center;">User selects “?”</p> <p data-bbox="451 1177 1822 1209">Other applications, such as the Email, Gmail, Memo, and Talk applications, provide the same functionality.</p>
<p data-bbox="184 1242 426 1421">the current character string in the first area with the suggested replacement</p>	<p data-bbox="451 1226 1963 1404">The Samsung Stratosphere replaces the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area. For example, in the screenshots below, after the user performs a first gesture of pressing on the suggested replacement string “message” displayed in the second area, the current character string displayed in the first area is replaced by the suggested string.</p>

<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Stratosphere</p>
<p>character string if the user performs a first gesture on the suggested replacement character string displayed in the second area; and</p>	 <p style="text-align: center; color: orange; font-weight: bold;">User selects “message”</p> <p>Other applications, such as the Email, Gmail, Memo, and Talk applications, provide the same functionality.</p>
<p>the current character string in the first area is kept if the user</p>	<p>If the user performs a second gesture of pressing on the current character string, the current character string is kept. For example, in the screenshots below, after the user taps on the “messaf” displayed in the second area, “messaf” is left as is in the first area of the display.</p>

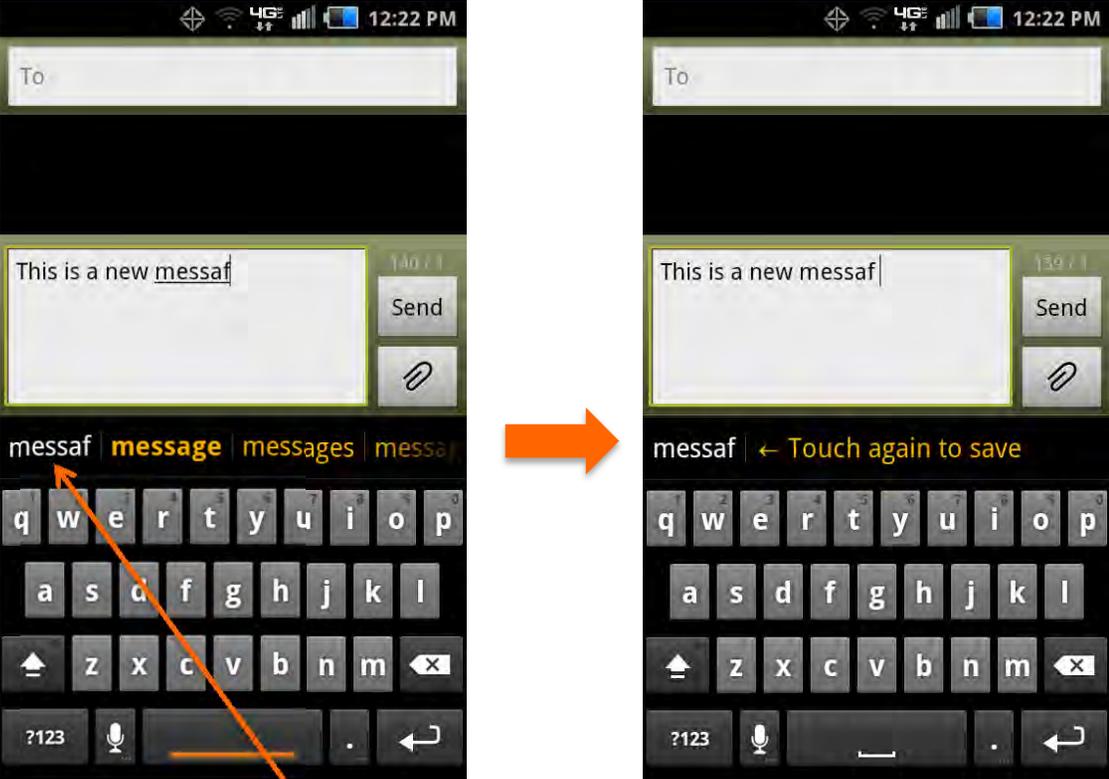
Claim 18 of the '172 Patent	Infringement by Samsung Stratosphere
<p>performs a second gesture in the second area on the current character string or the portion thereof displayed in the second area.</p>	 <p style="text-align: center; color: orange; font-weight: bold;">User selects “messaf”</p> <p>Other applications, such as the Email, Gmail, Memo, and Talk applications, provide the same functionality.</p>

EXHIBIT A13

GALAXY TAB 7.0 PLUS

INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172

Infringement by Samsung Galaxy Tab 7.0 Plus of U.S. Patent No. 8,074,172

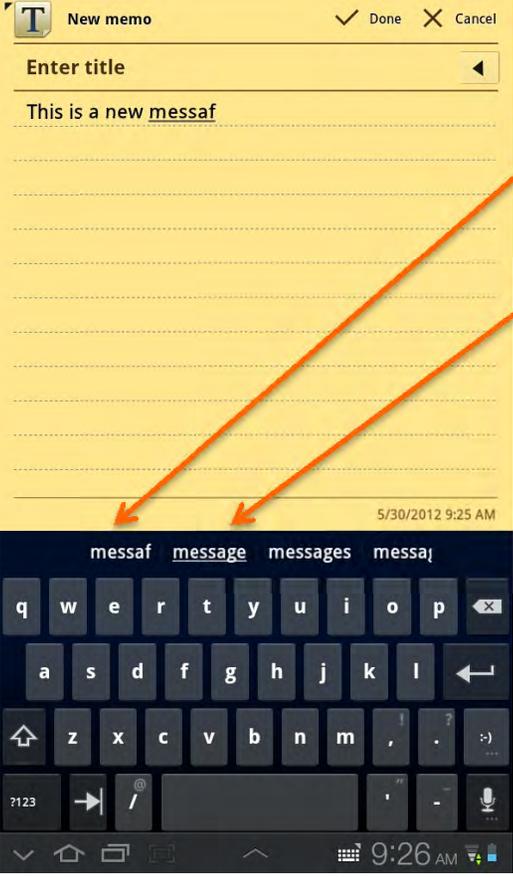
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 7.0 Plus
<p>18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising¹:</p>	<p>To the extent that the preamble may be construed to be limiting, the Samsung Galaxy Tab 7.0 Plus provides a graphical user interface on a portable electronic device, as evidenced by the presence of a CPU, memory devices, and a display device.</p> <p>The Samsung Galaxy Tab 7.0 Plus has a dual core 1.2 GHz processor. <i>See</i> Galaxy Tab 7.0 Plus Features, available at http://www.samsung.com/us/mobile/galaxy-tab/GT-P6210MAYXAR-features (“Features”).</p> <p>The Samsung Galaxy Tab 7.0 Plus also has memory as indicated in the Features and below. <i>Id.</i></p> <p>Memory</p> <ul style="list-style-type: none"> * Internal Memory 16GB * micro SD card slot supports up to 32GB <p>As shown below and in the Features the Samsung Galaxy Tab 7.0 Plus’s CPU is coupled to a 7” 1024x600 Pixel TFT touch screen display. (<i>See id.</i>):</p>

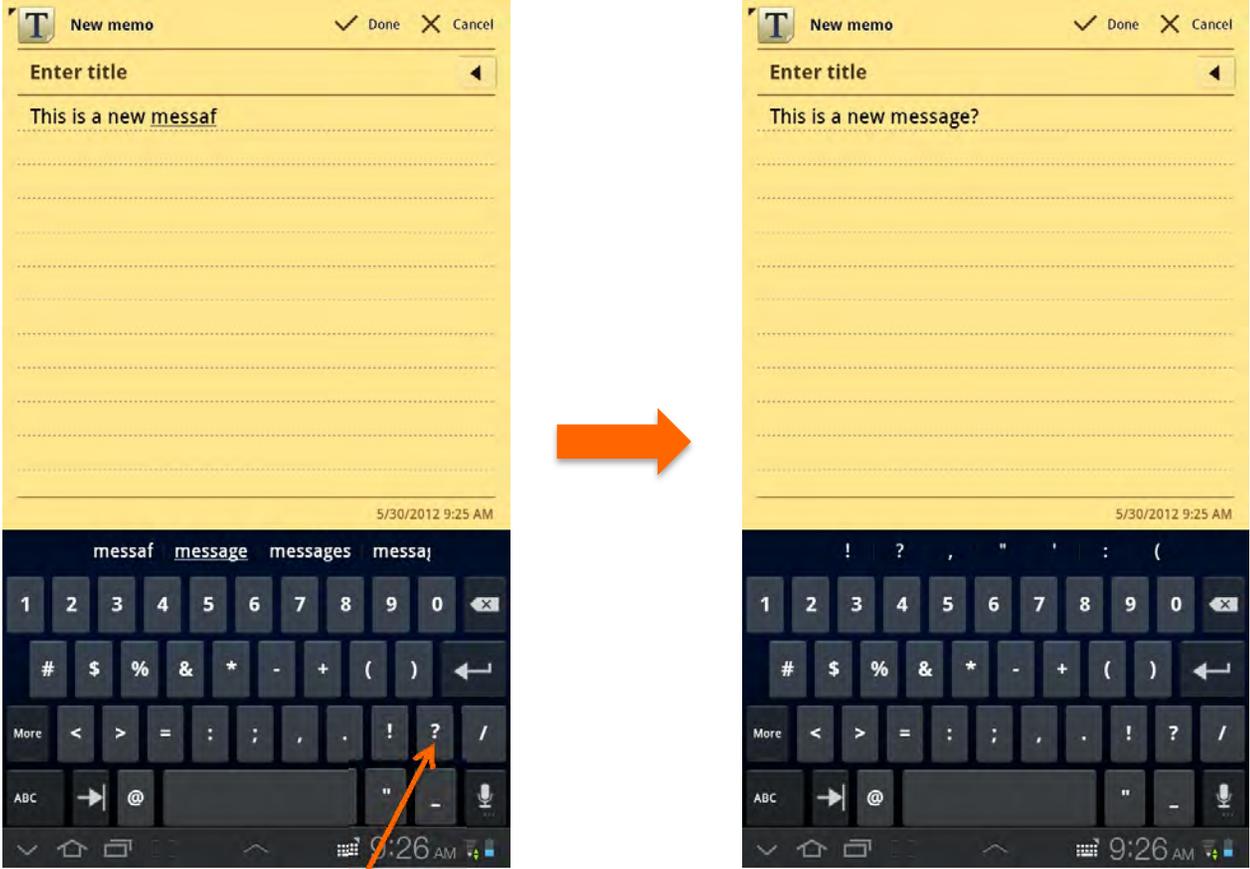
¹ Apple's inclusion of citations related to the claim preamble in this claim chart should not be interpreted as an admission that the preamble is limiting. Apple reserves the right to take the position that claim preambles are limiting or not limiting on a claim-by-claim basis.

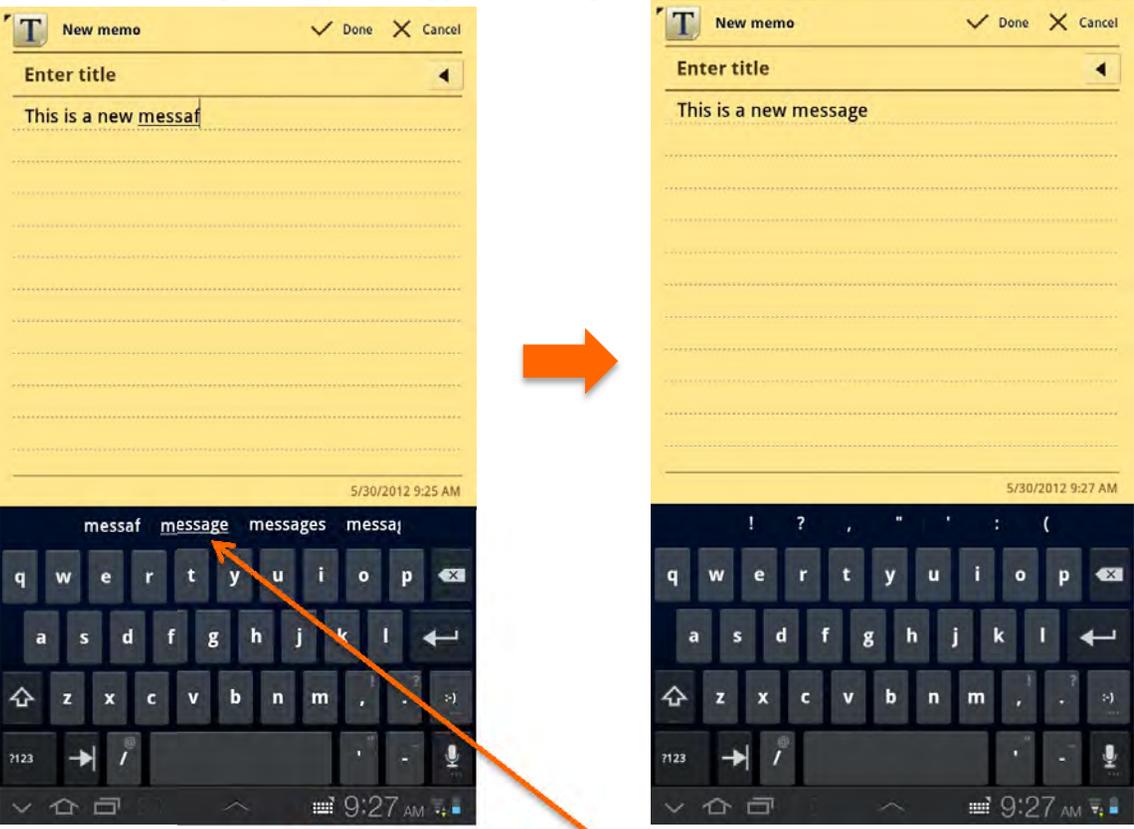
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 7.0 Plus
	<p data-bbox="495 581 596 610">Display</p> <ul data-bbox="495 630 730 743" style="list-style-type: none">▪ 7" Display▪ 1024 x 600 Pixel▪ TFT  <p data-bbox="466 786 1923 850">The Samsung Galaxy Tab 7.0 Plus provides a graphical user interface and a virtual keyboard on a touch screen, as shown below::</p>

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 7.0 Plus
	 A screenshot of the Samsung Galaxy Tab 7.0 Plus Memo App. The screen is yellow and displays a 'New memo' form. At the top, there is a title field with the text 'Enter title' and a dropdown arrow. Below the title field, the main text area contains the text 'This is a new messaf'. The text 'messaf' is underlined, indicating it is the current character string being input. At the bottom of the screen, a virtual keyboard is visible, showing the letters 'm', 'e', 's', 's', 'a', 'f' highlighted. The time '9:26 AM' is displayed in the bottom right corner of the screen.
first area of the touch screen	The Samsung Galaxy Tab 7.0 Plus displays a current character string being input by a user with the keyboard in a first area of the touch screen display. For example, in the Samsung Galaxy Tab 7.0 Plus Memo App, as the user the inputs

<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Galaxy Tab 7.0 Plus</p>
<p>display that displays a current character string being input by a user with the keyboard;</p>	<p>the character string “messaf,” the Samsung Galaxy Tab 7.0 Plus displays “messaf” in a first area of the touch screen display (the area of the screen that simulates the appearance of a notebook), which contains the text “This is a new messaf,” as shown in the screenshot below:</p>  <p>Other applications, such as the Email, Gmail, Pen Memo, and Talk applications, provide the same functionality.</p>
<p>in a second area of the touch</p>	<p>In a second area of the touch screen display, the current string and a suggested replacement string are displayed.</p>

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 7.0 Plus
<p>screen display separate from the first area that displays the current character string or a portion thereof and a suggested replacement character string for the current character string;</p>	 <p>The second area is located below the first area and is differentiated by the black background, which is shared with the keyboard.</p> <p>Other applications, such as the Email, Gmail, Pen Memo, and Talk applications, provide the same functionality.</p>
<p>wherein; the</p>	<p>The Samsung Galaxy Tab 7.0 Plus replaces the current character string in the first area with the suggested</p>

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 7.0 Plus
<p>current character string in the first area is replaced with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter;</p>	<p>replacement character string if the user activates a key on the keyboard associated with a delimiter. For example, in the screenshots below, after the user selects the “?” key on the keyboard, a delimiter, the current character string “messaf” displayed in the first area is replaced with the suggested replacement “message.”</p>  <p style="text-align: center; color: orange; font-weight: bold;">User selects “?”</p> <p>Other applications, such as the Email, Gmail, Pen Memo, and Talk applications, provide the same functionality.</p>

<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Galaxy Tab 7.0 Plus</p>
<p>the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area; and</p>	<p>The Samsung Galaxy Tab 7.0 Plus replaces the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area. For example, in the screenshots below, after the user performs a first gesture of pressing on the suggested replacement string “message” displayed in the second area, the current character string displayed in the first area is replaced by the suggested string.</p>  <p style="text-align: center; color: orange;">User selects “message”</p> <p>Other applications, such as the Email, Gmail, Pen Memo, and Talk applications, provide the same functionality.</p>

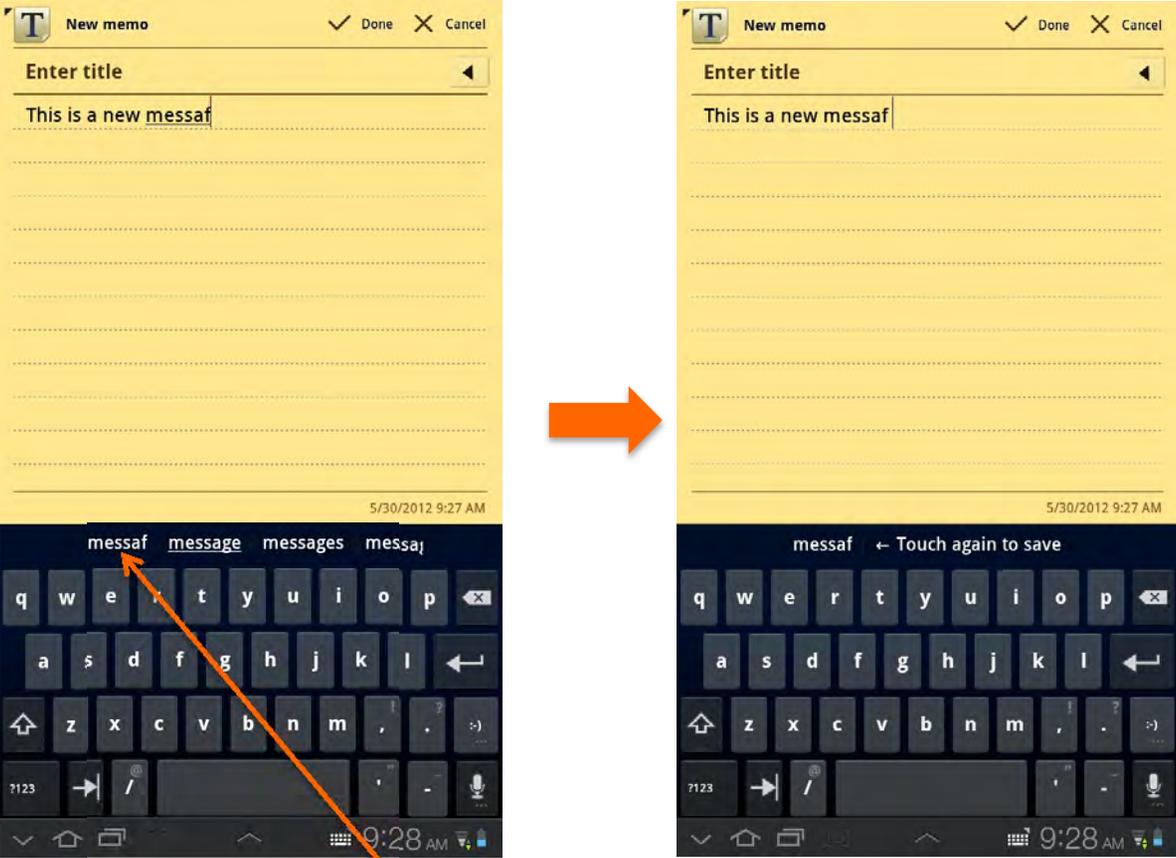
<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Galaxy Tab 7.0 Plus</p>
<p>the current character string in the first area is kept if the user performs a second gesture in the second area on the current character string or the portion thereof displayed in the second area.</p>	<p>If the user performs a second gesture of pressing on the current character string, the current character string is kept. For example, in the screenshots below, after the user taps on the “messaf” displayed in the second area, “messaf” is left as is in the first area of the display.</p>  <p style="text-align: center; color: orange; font-weight: bold;">User selects “messaf”</p> <p>Other applications, such as the Email, Gmail, Pen Memo, and Talk applications, provide the same functionality.</p>

EXHIBIT A14

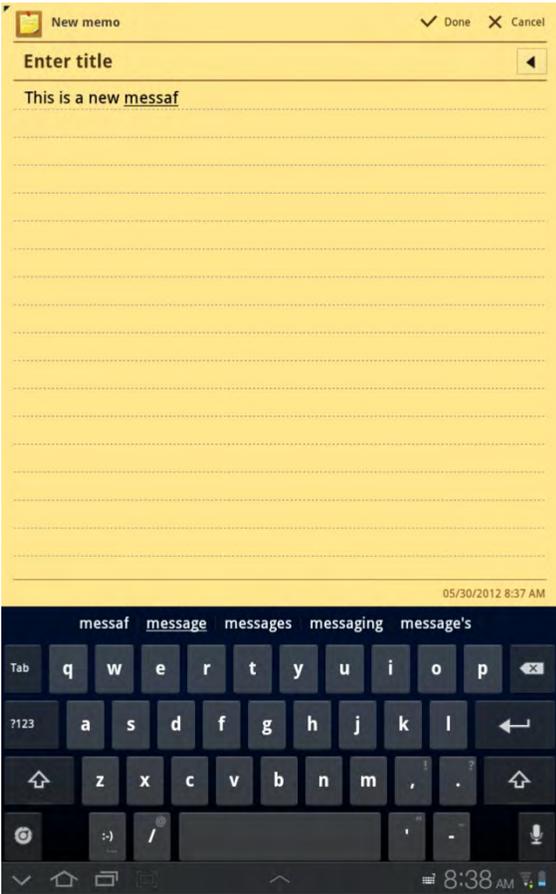
GALAXY TAB 8.9

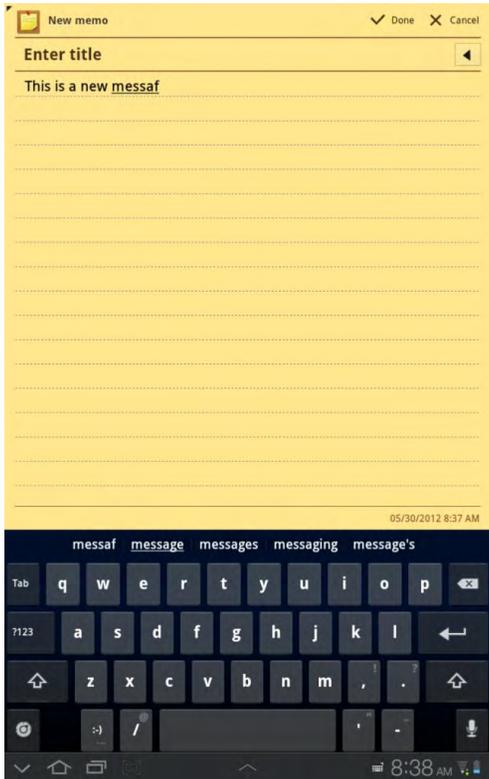
INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172

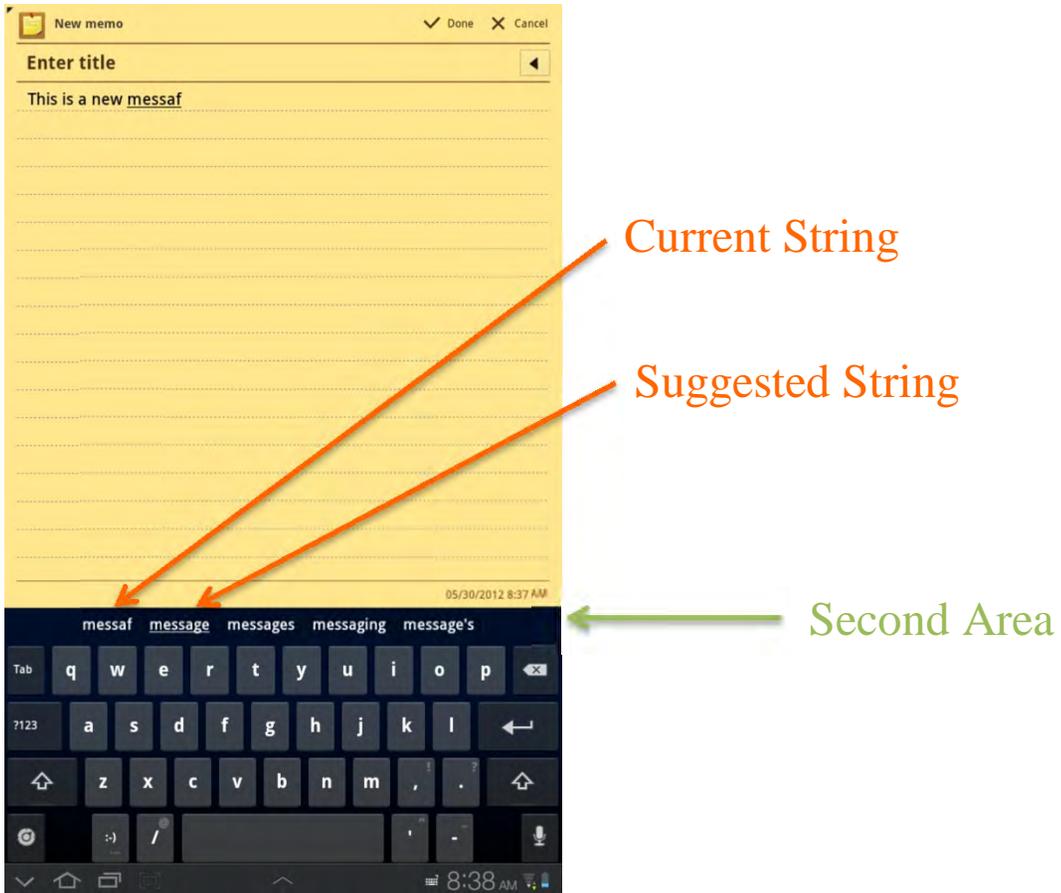
Infringement by Samsung Galaxy Tab 8.9 of U.S. Patent No. 8,074,172

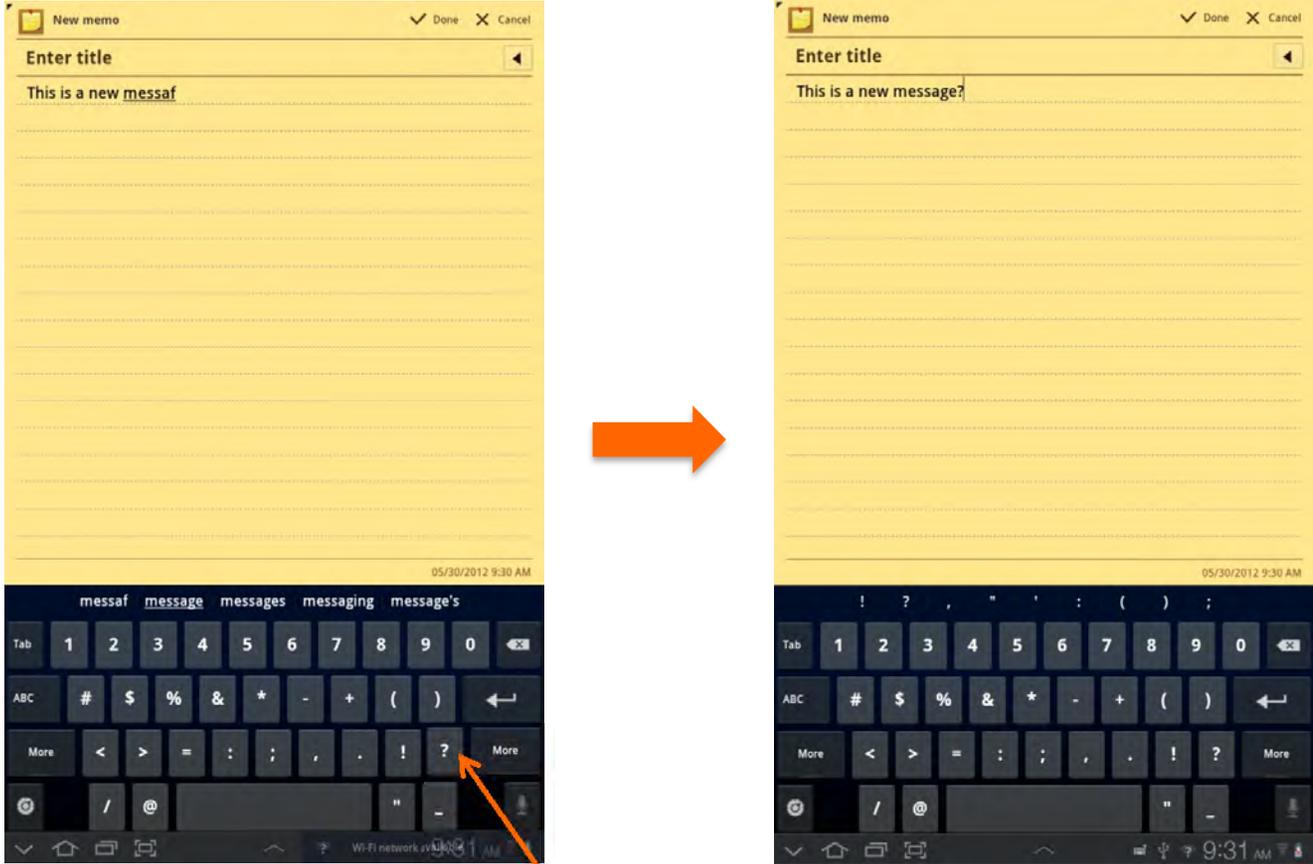
<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Galaxy Tab 8.9</p>
<p>18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising¹:</p>	<p>To the extent that the preamble may be construed to be limiting, the Samsung Galaxy Tab 8.9 provides a graphical user interface on a portable electronic device, as evidenced by the presence of a CPU, memory devices, and a display device.</p> <p>The Samsung Galaxy Tab 8.9 has a dual core 1 GHz processor. <i>See</i> Galaxy Tab 8.9 Features, <i>available at</i> http://www.samsung.com/us/mobile/galaxy-tab/GT-P7310MAAXAR-features (“Features”).</p> <p>The Samsung Galaxy Tab 8.9 also has memory as indicated in the Features and below. <i>Id.</i></p> <p>Memory</p> <ul style="list-style-type: none"> ▪ 16GB Internal Memory <p>As shown below, and in the Features, the Samsung Galaxy Tab 8.9’s CPU is coupled to a 8.9” WXGA (1280x800) TFT (PLS) touch screen display. <i>See id.</i></p> <div style="text-align: center;">  </div> <p>Display</p> <ul style="list-style-type: none"> ▪ 8.9” WXGA (1280x800) TFT (PLS)

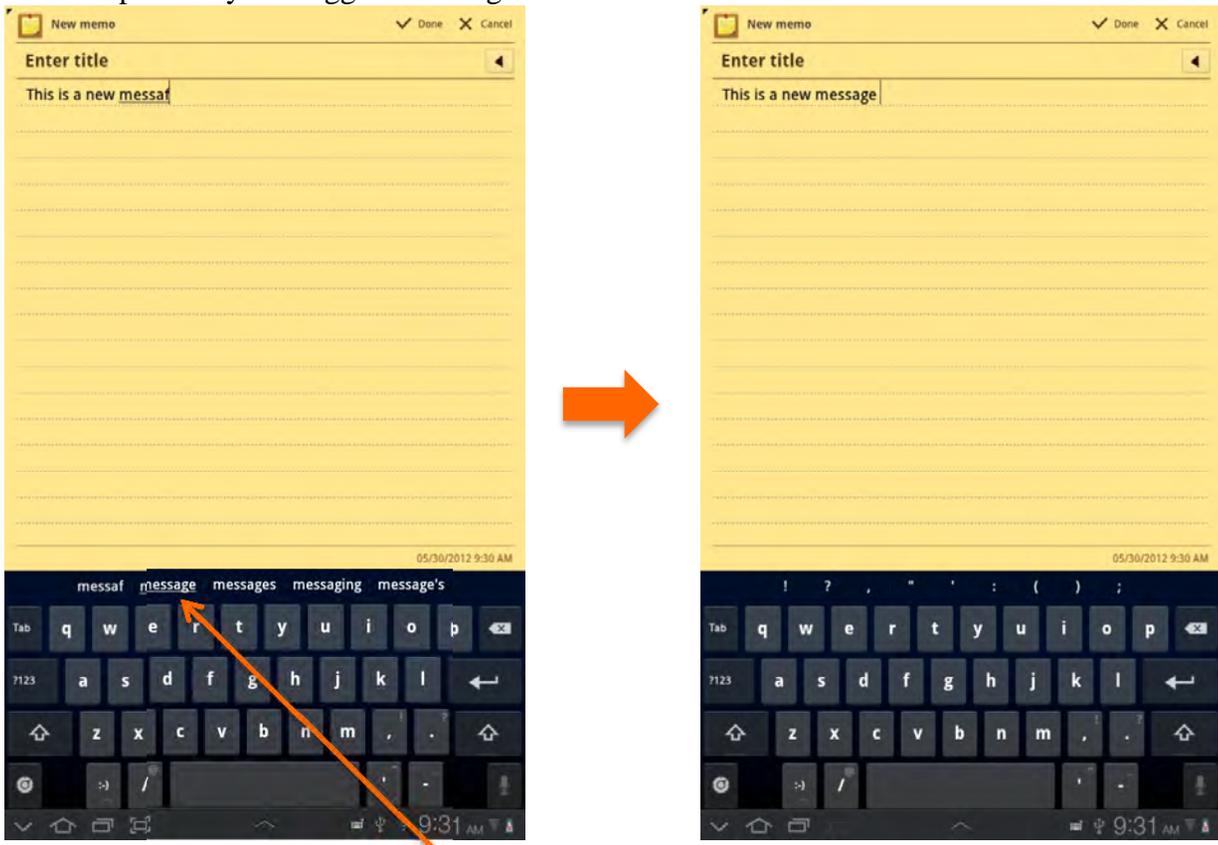
¹ Apple's inclusion of citations related to the claim preamble in this claim chart should not be interpreted as an admission that the preamble is limiting. Apple reserves the right to take the position that claim preambles are limiting or not limiting on a claim-by-claim basis.

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 8.9
	<p>The Samsung Galaxy Tab 8.9 provides a graphical user interface and a virtual keyboard on a touch screen, as shown below:</p>  <p>The screenshot displays the 'New memo' application on a Samsung Galaxy Tab 8.9. The app has a yellow background and a title bar with 'New memo', a checkmark, 'Done', and a cross, 'Cancel'. Below the title bar is a text input field labeled 'Enter title' with a back arrow. The main text area contains the text 'This is a new messaf' followed by several horizontal dashed lines for additional text. At the bottom of the screen, a virtual keyboard is visible with a dark blue background and white keys. The keyboard includes a 'Tab' key, a numeric keypad with '7123', and a microphone icon. The status bar at the very bottom shows the time '8:38 AM' and various system icons. The date and time '05/30/2012 8:37 AM' are visible in the bottom right corner of the memo app's text area.</p>

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 8.9
<p>first area of the touch screen display that displays a current character string being input by a user with the keyboard;</p>	<p>The Samsung Galaxy Tab 8.9 displays a current character string being input by a user with the keyboard in a first area of the touch screen display. For example, in the Samsung Galaxy Tab 8.9 Memo App, as the user the inputs the character string “messaf,” the Samsung Galaxy Tab 8.9 displays “messaf” in a first area of the touch screen display (the area of the screen that simulates the appearance of a notebook), which contains the text “This is a new messaf,” as shown in the screenshot below:</p>  <p>The screenshot shows the 'New memo' app interface. At the top, there is a title bar with a yellow background and a memo icon, the text 'New memo', and 'Done' and 'Cancel' buttons. Below the title bar is an 'Enter title' field with a back arrow. The main content area is a yellow notepad with horizontal lines. The first line contains the text 'This is a new messaf'. At the bottom of the screen, a virtual keyboard is visible with the word 'messaf' highlighted in the search bar. The keyboard has keys for 'q', 'w', 'e', 'r', 't', 'y', 'u', 'i', 'o', 'p', 'a', 's', 'd', 'f', 'g', 'h', 'j', 'k', 'l', 'z', 'x', 'c', 'v', 'b', 'n', 'm', and a spacebar. The time '8:38 AM' is displayed in the bottom right corner.</p>

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 8.9
<p>in a second area of the touch screen display separate from the first area that displays the current character string or a portion thereof and a suggested replacement character string for the current character string;</p>	<p>Other applications, such as the Email, Gmail, Pen Memo, and Talk applications, provide the same functionality. In a second area of the touch screen display, the current string and a suggested replacement string are displayed.</p>  <p>The second area is located below the first area and is differentiated by the black background, which is shared with the keyboard.</p>

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 8.9
<p>wherein; the current character string in the first area is replaced with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter;</p>	<p>Other applications, such as the Email, Gmail, Pen Memo, and Talk applications, provide the same functionality. The Samsung Galaxy Tab 8.9 replaces the current character string in the first area with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter. For example, in the screenshots below, after the user selects the “?” key on the keyboard, a delimiter, the current character string “messaf” displayed in the first area is replaced with the suggested replacement “message.”</p>  <p style="text-align: center; color: orange;">User selects “?”</p>

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 8.9
<p>the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area; and</p>	<p>Other applications, such as the Email, Gmail, Pen Memo, and Talk applications, provide the same functionality.</p> <p>The Samsung Galaxy Tab 8.9 replaces the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area. For example, in the screenshots below, after the user performs a first gesture of pressing on the suggested replacement string “message” displayed in the second area, the current character string displayed in the first area is replaced by the suggested string.</p>  <p style="text-align: center; color: orange;">User selects “message”</p>

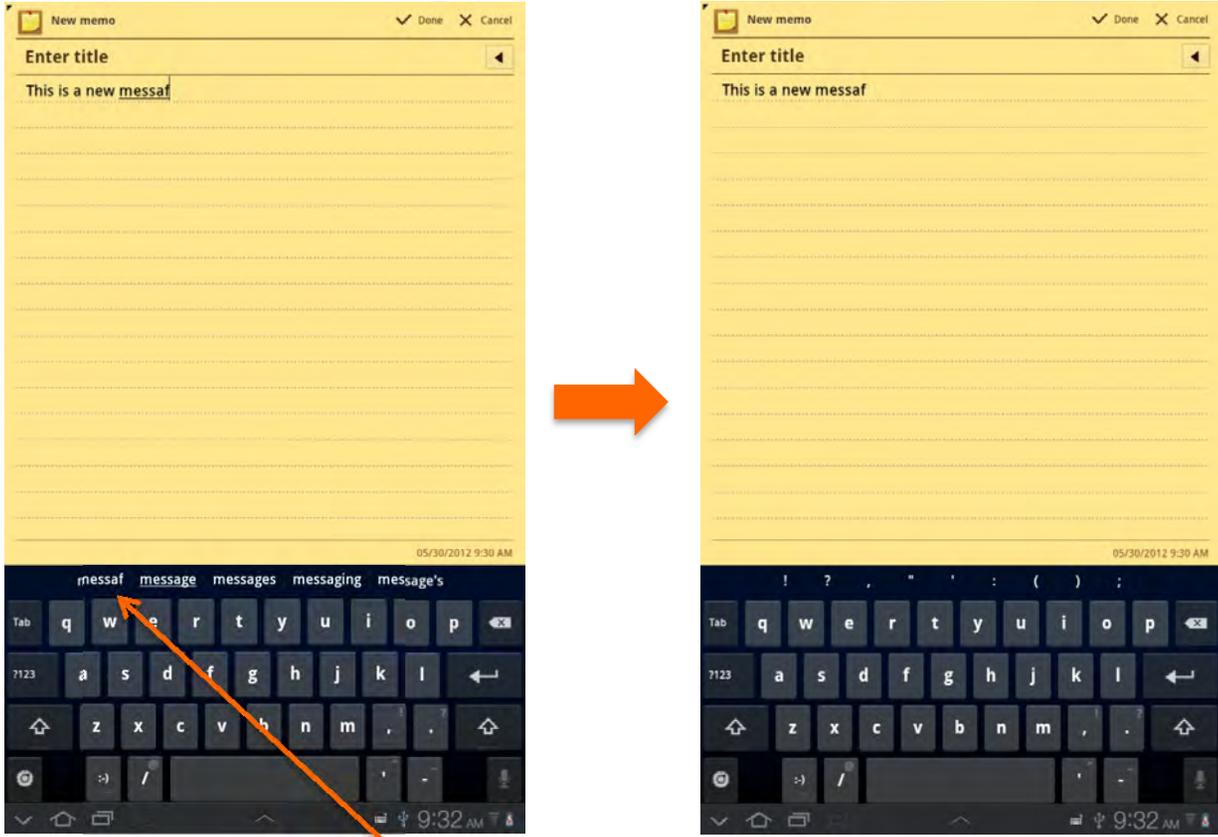
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 8.9
<p>the current character string in the first area is kept if the user performs a second gesture in the second area on the current character string or the portion thereof displayed in the second area.</p>	<p>Other applications, such as the Email, Gmail, Pen Memo, and Talk applications, provide the same functionality.</p> <p>If the user performs a second gesture of pressing on the current character string, the current character string is kept. For example, in the screenshots below, after the user taps on the “messaf” displayed in the second area, “messaf” is left as is in the first area of the display.</p>  <p style="text-align: center; color: orange; font-weight: bold;">User selects “messaf”</p> <p>Other applications, such as the Email, Gmail, Pen Memo, and Talk applications, provide the same functionality.</p>

EXHIBIT A15

TRANSFORM ULTRA

INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172

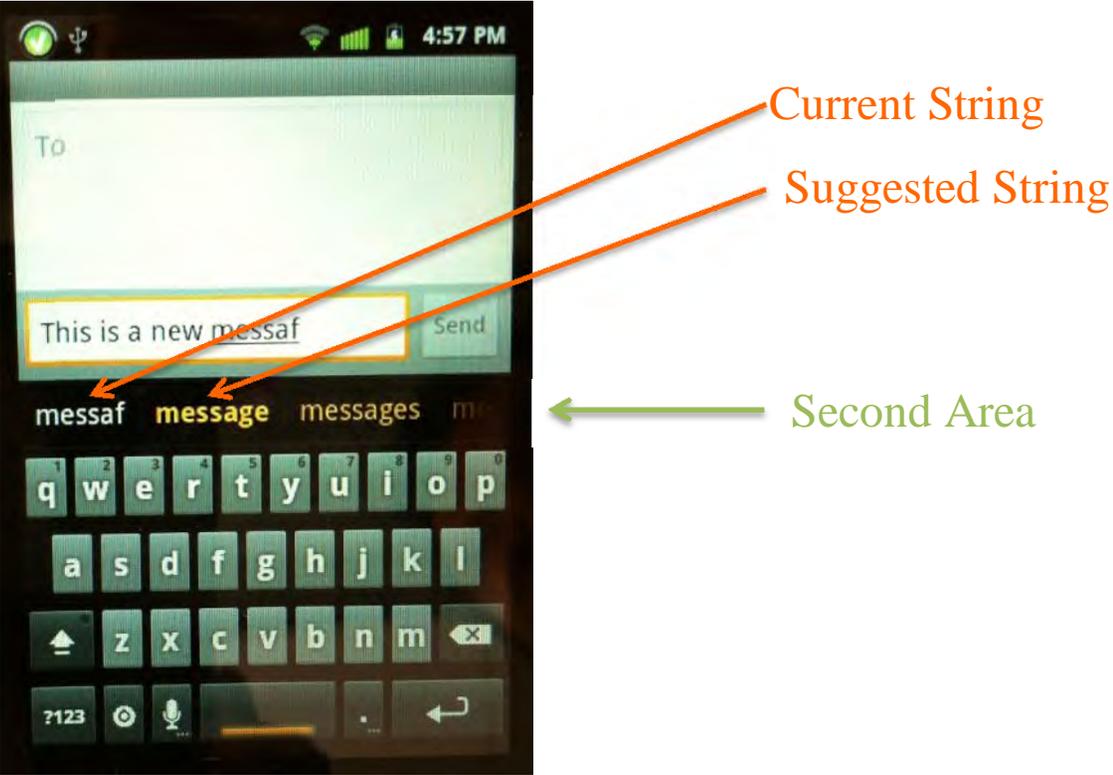
Infringement by Samsung Transform Ultra of U.S. Patent No. 8,074,172

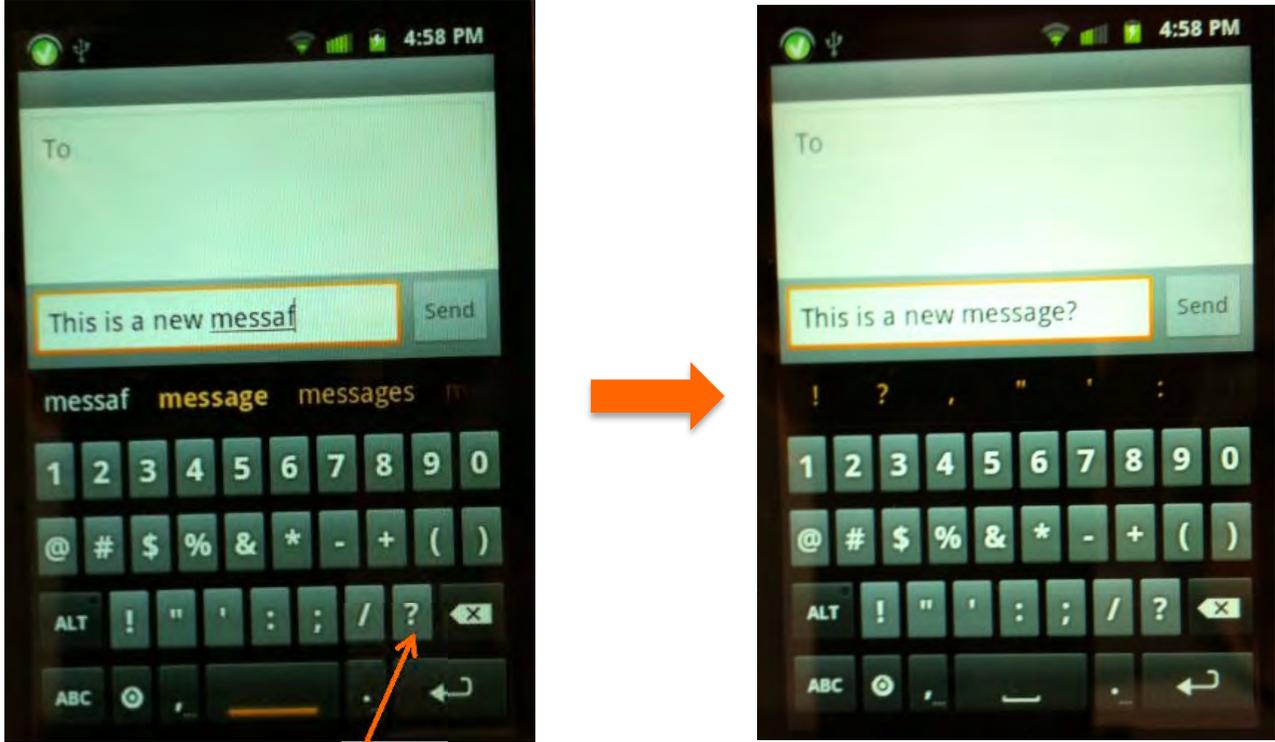
<p>Claim 18 of the '172 Patent</p>	<p>Infringement by Samsung Transform Ultra</p>
<p>18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising¹:</p>	<p>To the extent that the preamble may be construed to be limiting, the Samsung Transform Ultra provides a graphical user interface on a portable electronic device, as evidenced by the presence of a CPU, an operating system, and a display device.</p> <p>The Samsung Transform Ultra has a 1 GHz processor. <i>See</i> Transform Ultra, Features, <i>available at</i> http://www.samsung.com/us/mobile/cell-phones/SPH-M930ZKASPR-features (“Features”))</p> <p>The Samsung Transform Ultra runs on Android operating system. <i>Id.</i></p> <p>The Samsung Transform Ultra also includes a 3.5” HVGA touchscreen. <i>Id.</i></p> <div data-bbox="640 727 913 1247" data-label="Image"> </div>

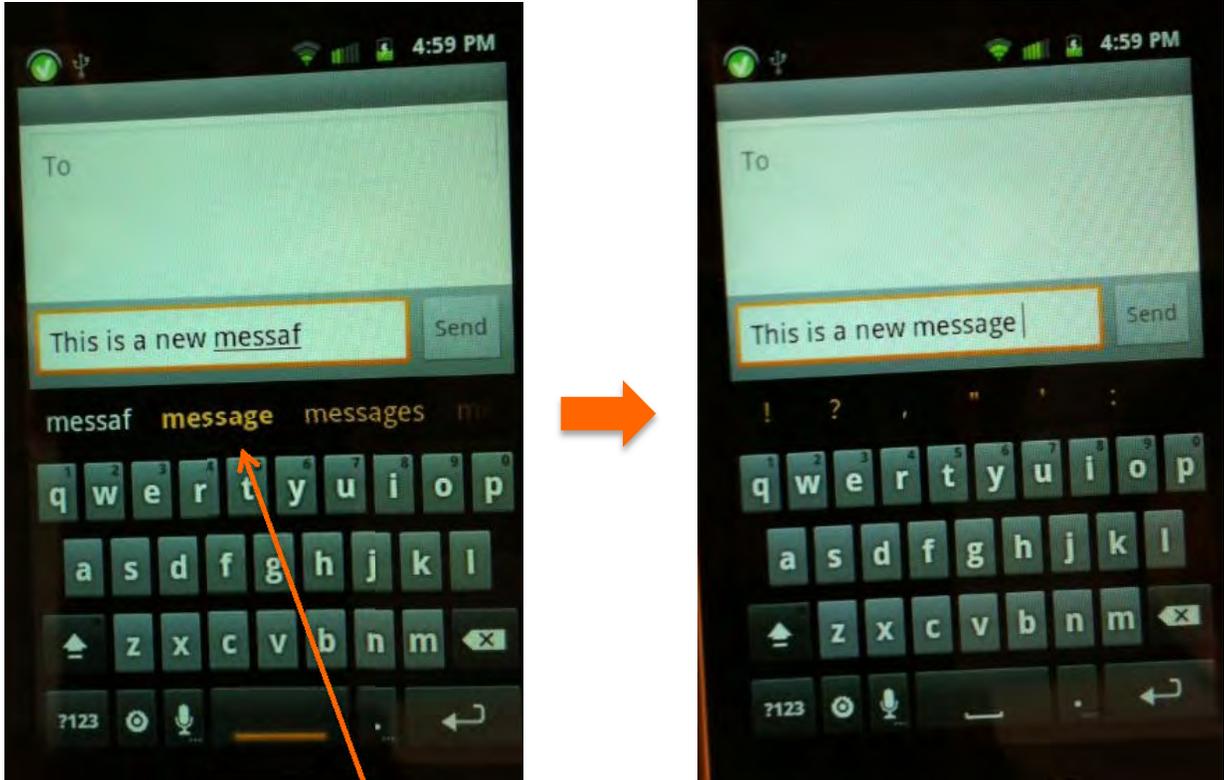
¹ Apple's inclusion of citations related to the claim preamble in this claim chart should not be interpreted as an admission that the preamble is limiting. Apple reserves the right to take the position that claim preambles are limiting or not limiting on a claim-by-claim basis.

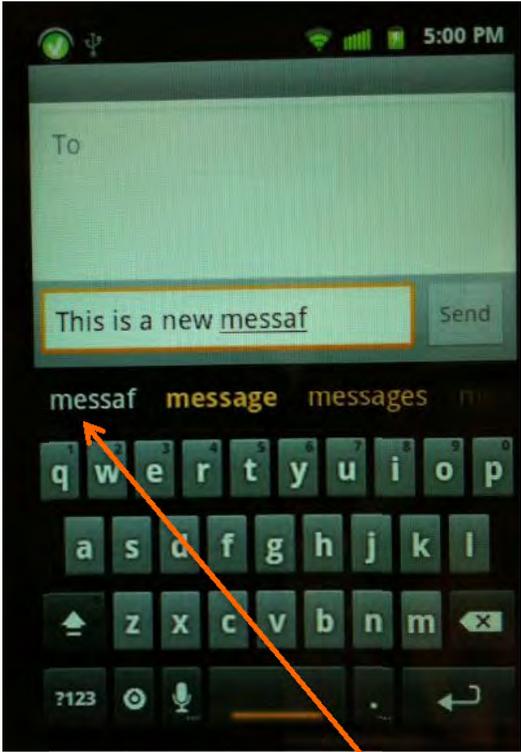
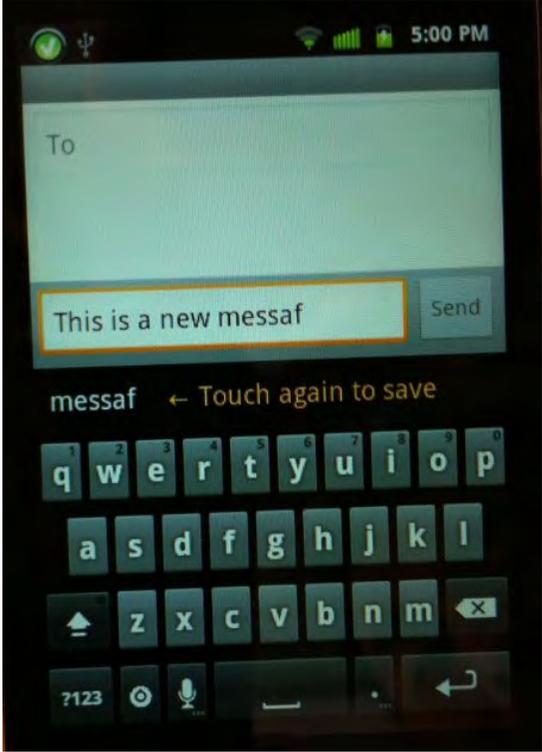
Claim 18 of the '172 Patent	Infringement by Samsung Transform Ultra
	<p>The Samsung Transform Ultra provides a graphical user interface and a virtual keyboard on a touch screen, as shown below:</p>  <p>The screenshot shows a messaging application interface on a touch screen. At the top, there is a status bar with icons for signal strength, Wi-Fi, and battery, and the time 4:57 PM. Below the status bar is a text input field with the placeholder text "To". Below the input field is a text entry area containing the text "This is a new messaf" and a "Send" button. Below the text entry area is a virtual keyboard with a QWERTY layout. The keyboard has a dark background with light-colored keys. The word "messaf" is highlighted in yellow, and a suggestion bar below the keyboard shows "messaf", "message", "messages", and "me".</p>

Claim 18 of the '172 Patent	Infringement by Samsung Transform Ultra
<p>first area of the touch screen display that displays a current character string being input by a user with the keyboard;</p>	<p>The Samsung Transform Ultra displays a current character string being input by a user with the keyboard in a first area of the touch screen display. For example, in the Samsung Transform Ultra Messaging App, as the user the inputs the character string “messaf,” the Samsung Transform Ultra displays “messaf” in a first area of the touch screen display (the rectangular-shaped area of the screen outlined in orange), which contains the text “This is a new messaf,” as shown in the screenshot below:</p>  <p>The screenshot shows a messaging application interface on a Samsung Transform Ultra. At the top, there is a status bar with icons for signal strength, Wi-Fi, and battery, and the time 4:57 PM. Below the status bar is a text input field containing the text "This is a new messaf". The text "messaf" is underlined, and a rectangular box is drawn around the entire text input field. To the right of the text input field is a "Send" button. Below the text input field is a keyboard with a predictive text bar showing "messaf", "message", "messages", and "m".</p> <p>Other applications, such as the Email, Gmail, and Talk applications, provide the same functionality.</p>

Claim 18 of the '172 Patent	Infringement by Samsung Transform Ultra
<p>in a second area of the touch screen display separate from the first area that displays the current character string or a portion thereof and a suggested replacement character string for the current character string;</p>	<p>In a second area of the touch screen display, the current string and a suggested replacement string are displayed.</p>  <p>The screenshot shows a text input field containing the text "This is a new messaf" and a "Send" button. Below the input field, a keyboard is visible with suggestions: "messaf", "message", and "messages". The word "message" is highlighted in yellow. Three orange arrows point from the text "Current String" to the word "messaf" in the input field, and from "Suggested String" to the word "message" in the suggestions. A green arrow points from the text "Second Area" to the keyboard area.</p> <p>The second area is located below the first area and separated by a gray border.</p> <p>Other applications, such as the Email, Gmail, and Talk applications, provide the same functionality.</p>

Claim 18 of the '172 Patent	Infringement by Samsung Transform Ultra
<p>wherein; the current character string in the first area is replaced with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter;</p>	<p>The Samsung Transform Ultra replaces the current character string in the first area with the suggested replacement character string if the user activates a key on the keyboard associated with a delimiter. For example, in the screenshots below, after the user selects the “?” key on the keyboard, a delimiter, the current character string “messaf” displayed in the first area is replaced with the suggested replacement “message.”</p>  <p style="text-align: center; color: orange;">User selects “?”</p>

Claim 18 of the '172 Patent	Infringement by Samsung Transform Ultra
	Other applications, such as the Email, Gmail, and Talk applications, provide the same functionality.
the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area; and	<p>The Samsung Transform Ultra replaces the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area. For example, in the screenshots below, after the user performs a first gesture of pressing on the suggested replacement string "message" displayed in the second area, the current character string displayed in the first area is replaced by the suggested string.</p> 

Claim 18 of the '172 Patent	Infringement by Samsung Transform Ultra
	<p>User selects “message”</p> <p>Other applications, such as the Email, Gmail, and Talk applications, provide the same functionality.</p>
<p>the current character string in the first area is kept if the user performs a second gesture in the second area on the current character string or the portion thereof displayed in the second area.</p>	<p>If the user performs a second gesture of pressing on the current character string, the current character string is kept. For example, in the screenshots below, after the user taps on the “messaf” displayed in the second area, “messaf” is left as is in the first area of the display.</p> <div style="display: flex; align-items: center; justify-content: center;">  <div style="margin: 0 20px; font-size: 2em; color: orange;">➔</div>  </div> <p>User selects “messaf”</p> <p>Other applications, such as the Email, Gmail, and Talk applications, provide the same functionality.</p>