EXHIBIT A1

ADMIRE

INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172
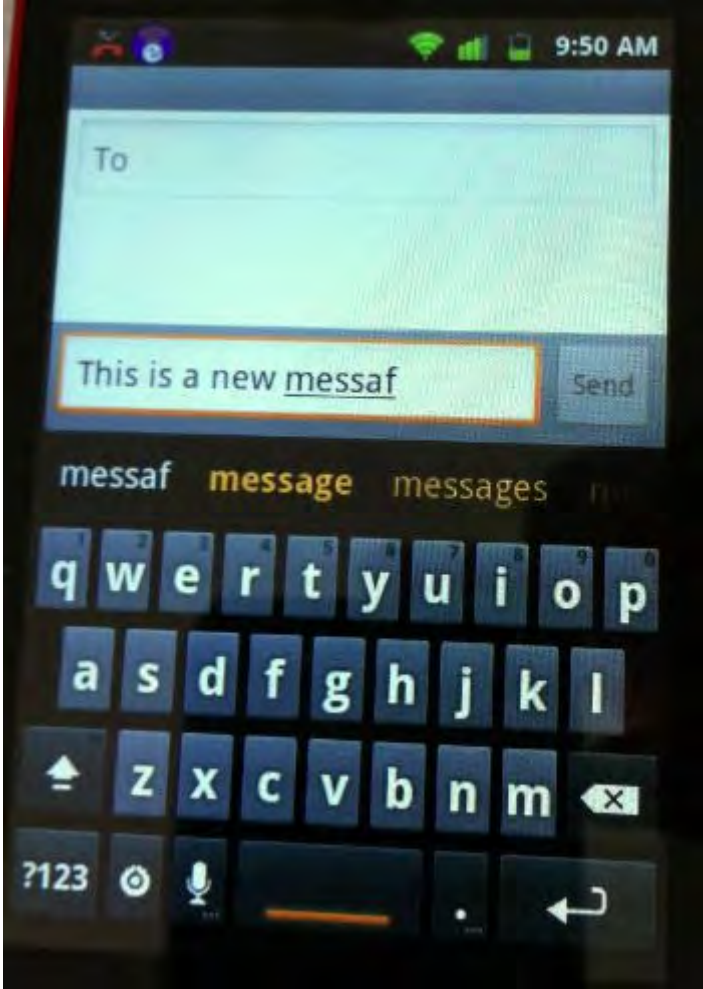
Infringement by Samsung Admire of U.S. Patent No. 8,074,172
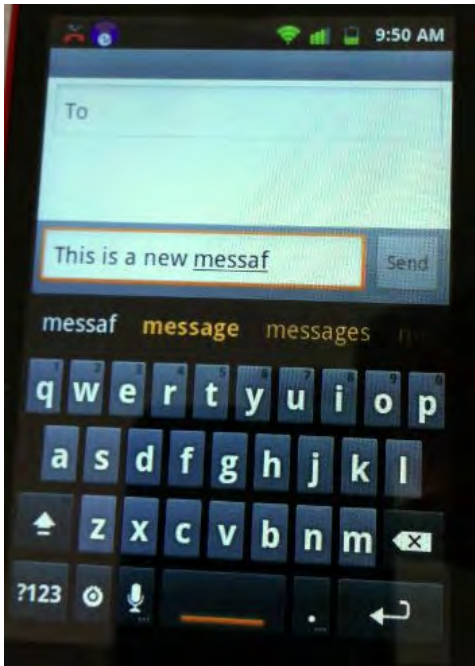
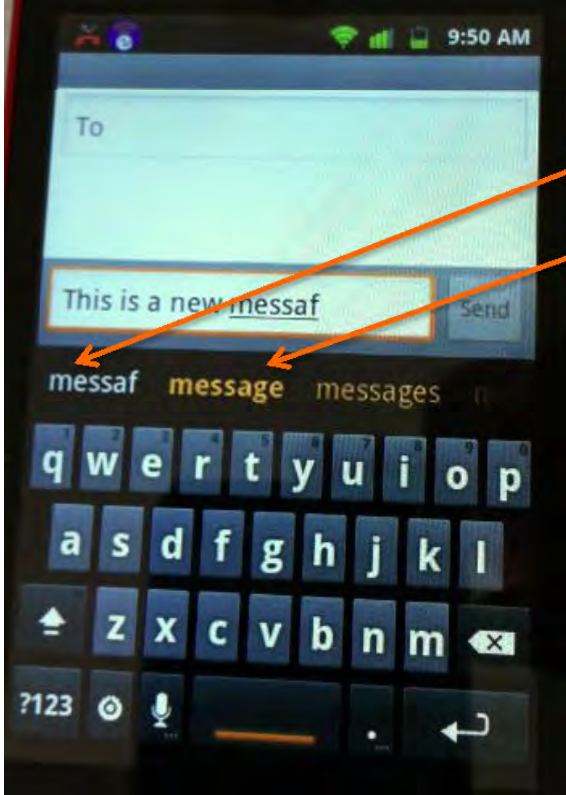| Claim 18 of the '172 Patent	Infringement by Samsung Admire
18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising[1]:	To the extent that the preamble may be construed to be limiting, the Samsung Admire provides a graphical user interface on a portable electronic device, as evidenced by the presence of a CPU, memory devices, and a display device. The Samsung Admire has an 800 MHz processor. *See* Admire, Specifications, *available at* http://www.samsung.com/us/mobile/cell-phones/SCH-R720ZRAXAR-specs ("Specifications"). **CPU / Processor** Processor Speed, Type — 800MHz The Samsung Admire also has storage as indicated in the Specifications and indicated below. *Id.* **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.
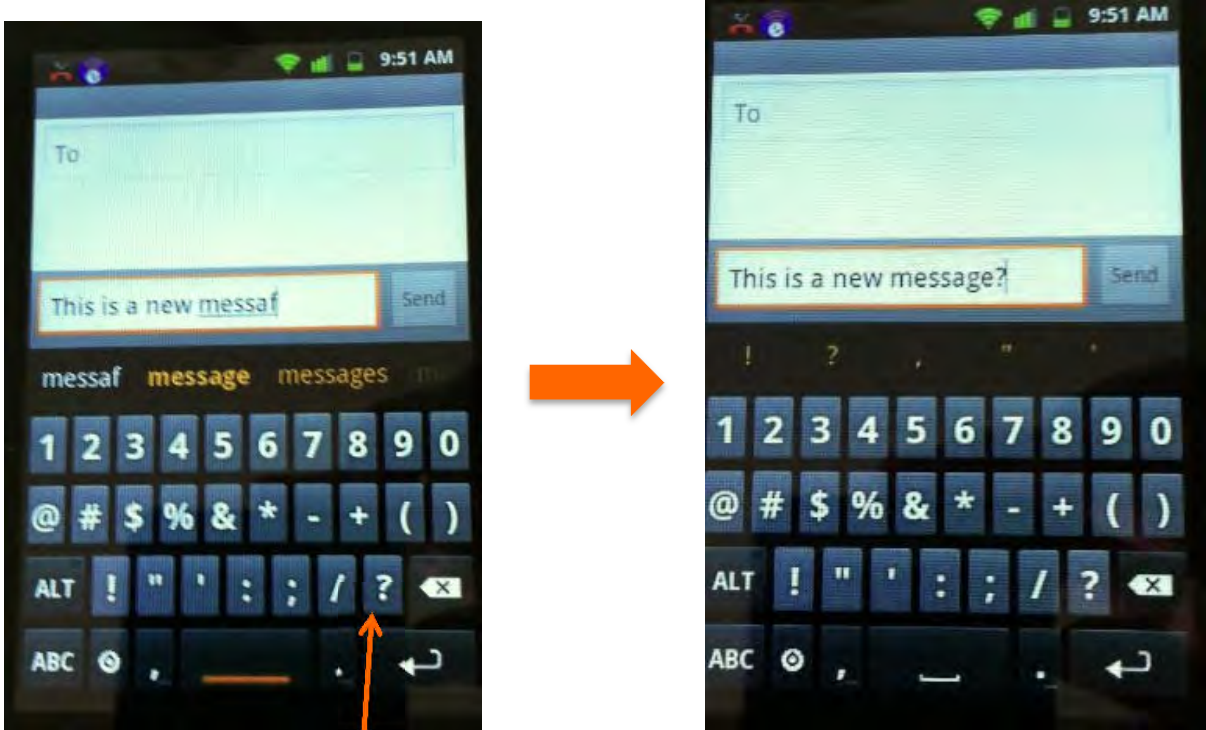
Claim 18 of the '172 Patent	Infringement by Samsung Admire
	As shown below and in the Specifications, the Samsung Admire's CPU is coupled to a 3.5 inch, 320x480 Pixel 262K TFT touch screen display. *See id.* **Display** Main Display Resolution — 320x480 Pixel Main Display Size — 3.5" Main Display Technology — 262K TFT
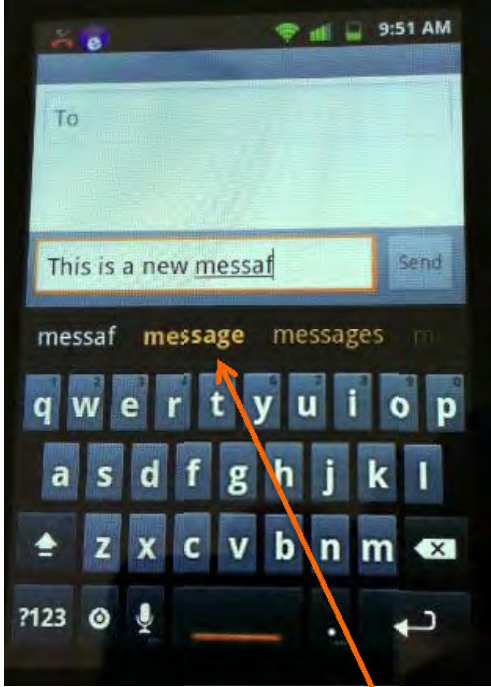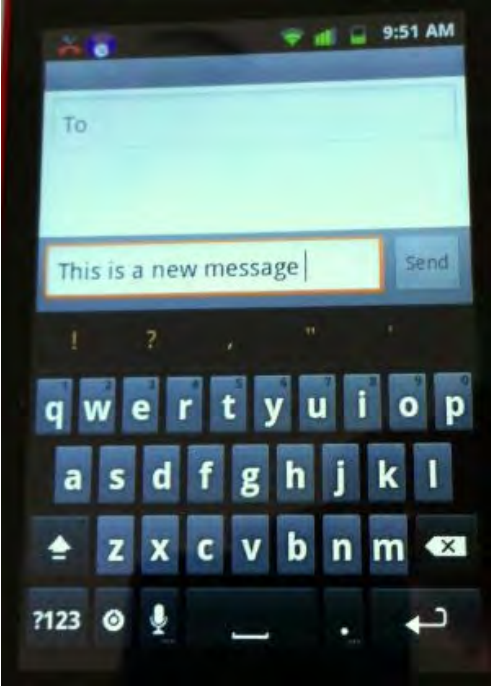
Claim 18 of the '172 Patent	Infringement by Samsung Admire
	The Samsung Admire provides a graphical user interface and a virtual keyboard on a touch screen, as shown below:
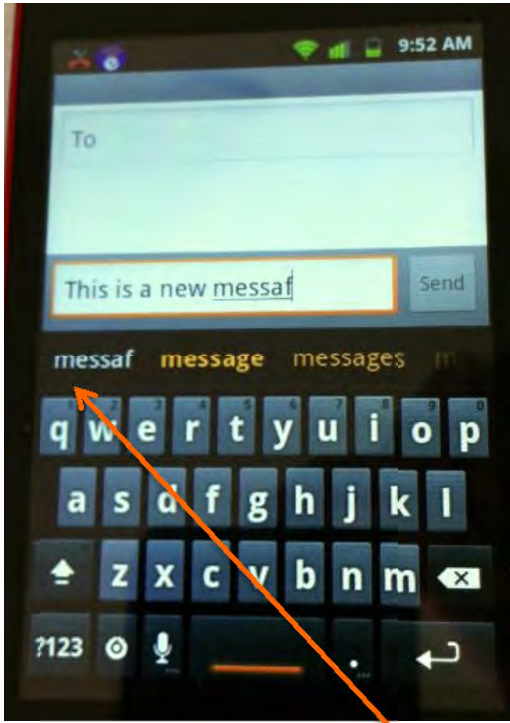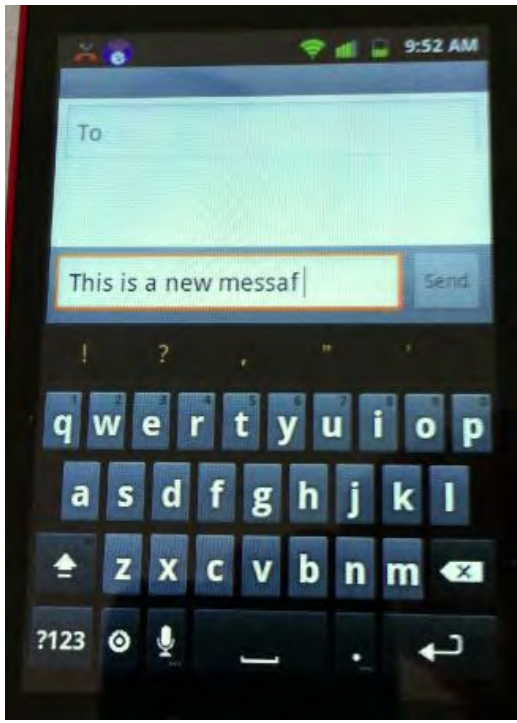
Claim 18 of the '172 Patent	Infringement by Samsung Admire
first area of the touch screen	The Samsung Admire displays a current character string being input by a user with the keyboard in a first area of the touch screen display. For example, in the Samsung Admire Messaging App, as the user the inputs the character string

4

Claim 18 of the '172 Patent	Infringement by Samsung Admire
display that displays a current character string being input by a user with the keyboard;	"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: Other applications, such as the Email, Gmail, and Talk applications, provide the same functionality.
in a second area	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 Admire
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;	 The second area is located below the first area and separated by a gray border. Other applications, such as the Email, Gmail, and Talk applications, provide the same functionality.

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

Claim 18 of the '172 Patent	Infringement by Samsung Admire
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	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. User selects "message"

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

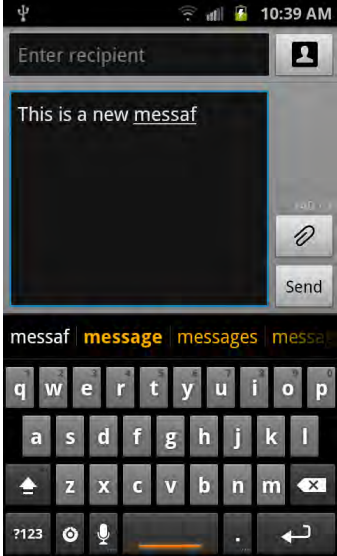| Claim 18 of the '172 Patent	Infringement by Samsung Admire
	Other applications, such as the Email, Gmail, and Talk applications, provide the same functionality.

EXHIBIT A2

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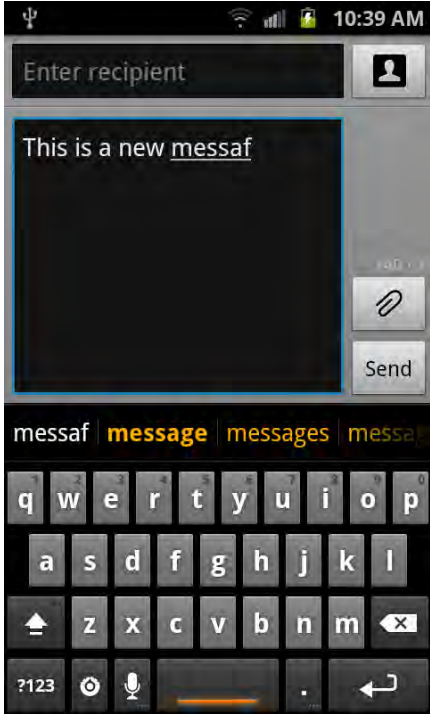
INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172

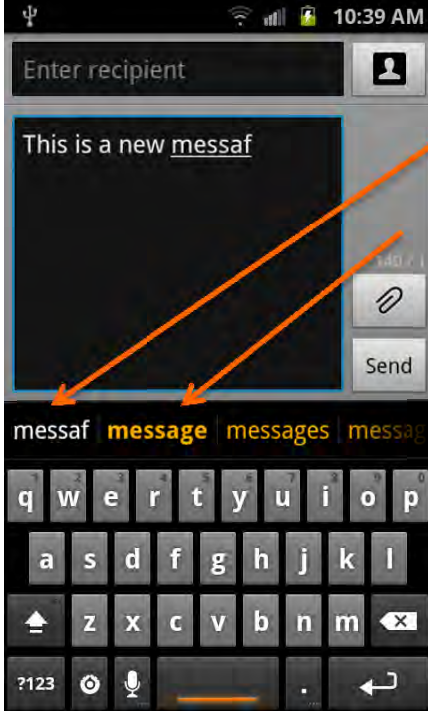**Infringement by Samsung Captivate Glide of U.S. Patent No. 8,074,172**

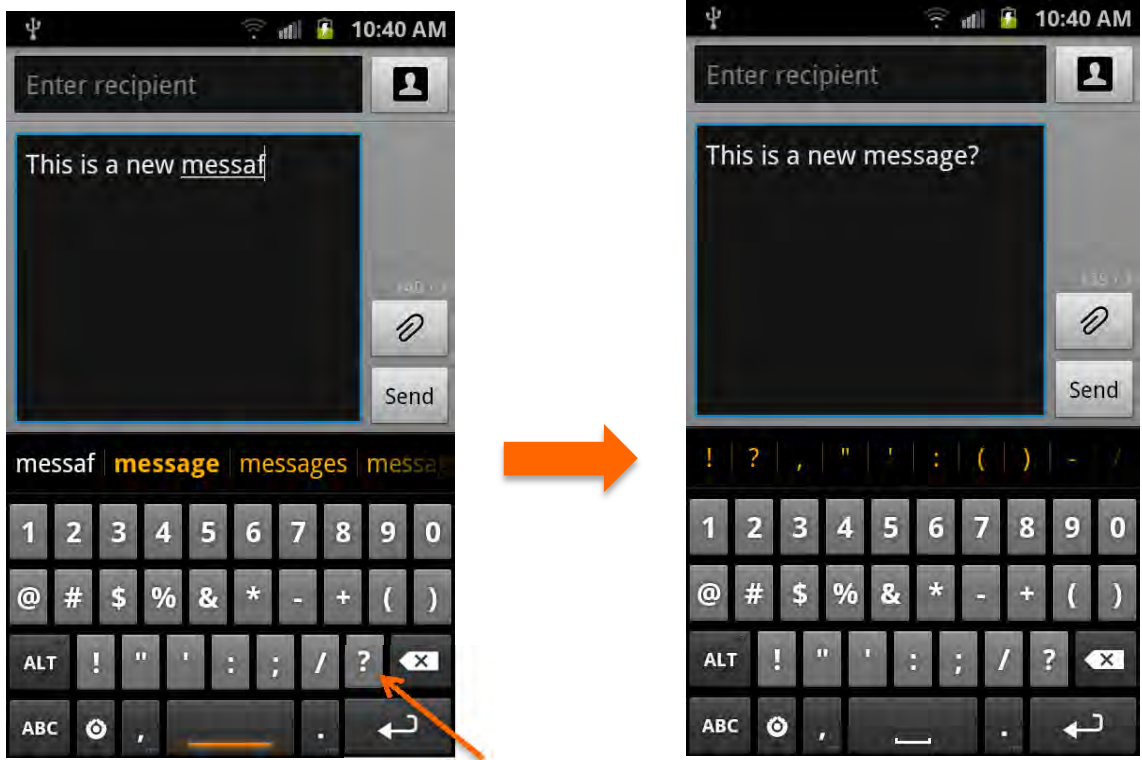| Claim 18 of the '172 Patent	Infringement by Samsung Captivate Glide
18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising[1]:	To the extent that the preamble may be construed to be limiting, the Samsung Captivate Glide provides a graphical user interface on a portable electronic device, as evidenced by the presence of a CPU, memory devices, and a display device. The Samsung Captivate Glide has a 1 GHz dual core processor. *See* Captivate Glide, Specifications, *available at* http://www.samsung.com/us/mobile/cell-phones/SGH-I927ZKAATT-specs. **CPU** Processor Speed, Type 1GHz Dual-core Tegra™ 2 Processor The Samsung Captivate Glide also has memory as indicated in the Specifications and indicated below. *Id.* **Memory** Internal Memory 1GB RAM/1GB ROM/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.
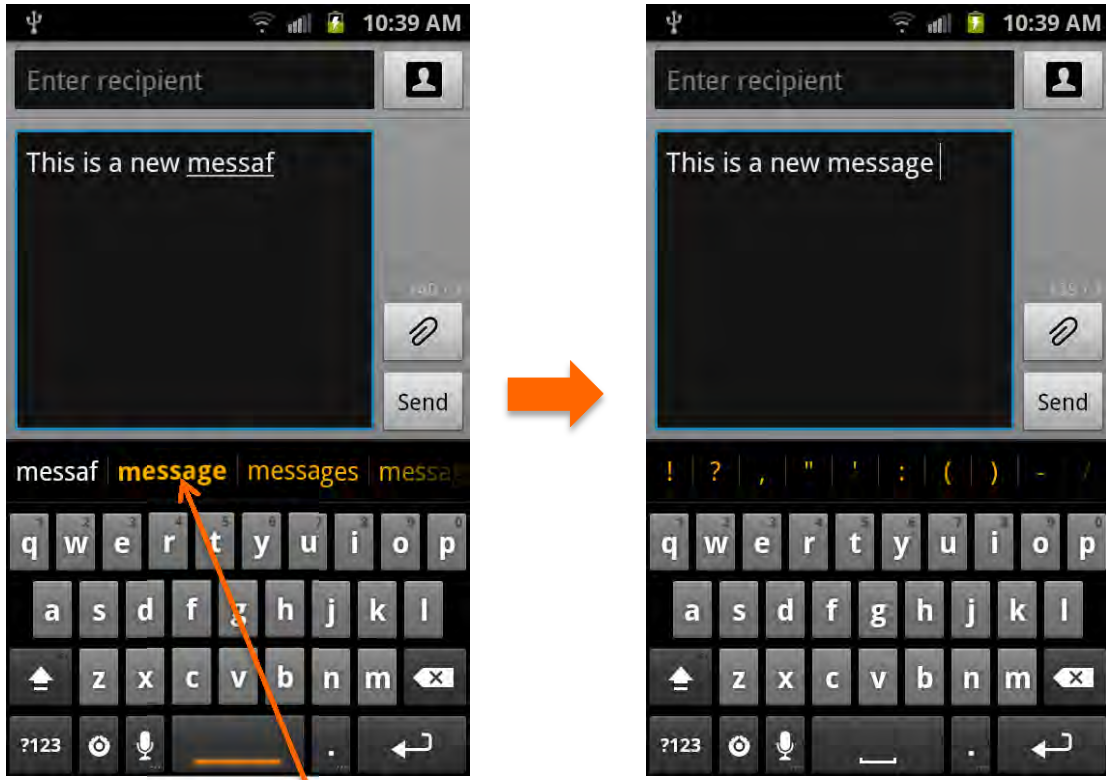
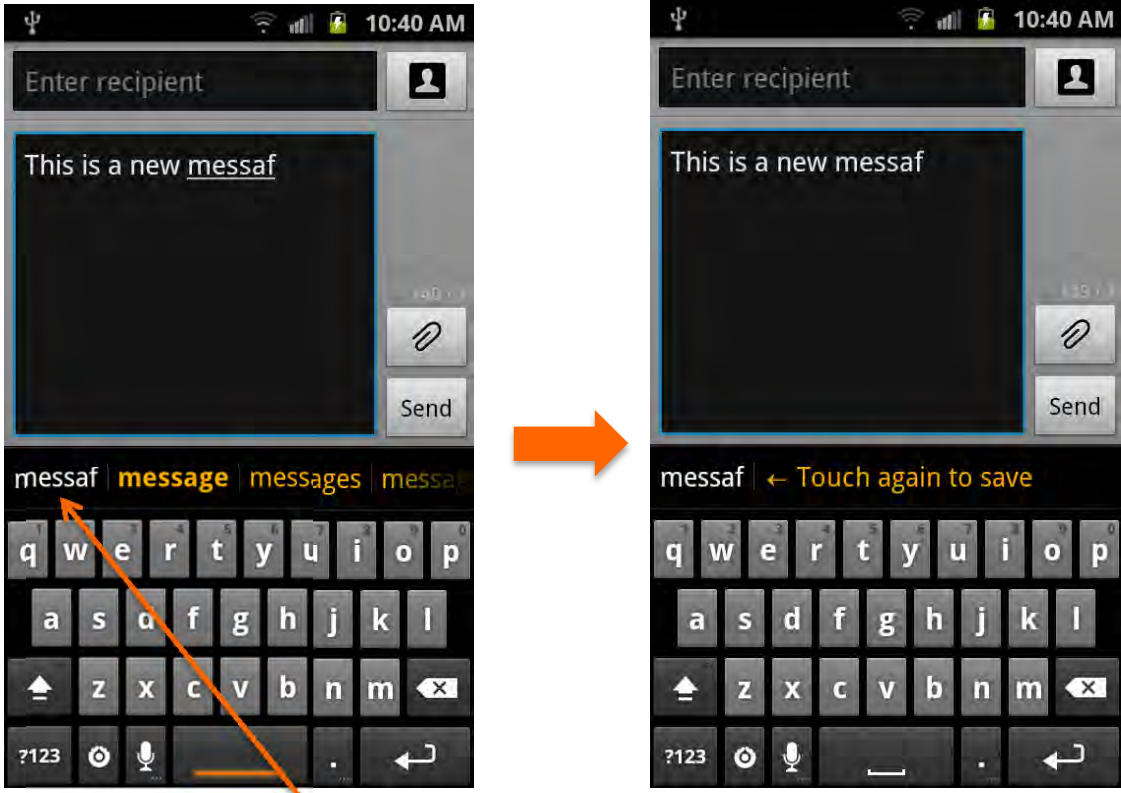| Claim 18 of the '172 Patent	Infringement by Samsung Captivate Glide
	As shown below and in the Specifications, the Samsung Captivate Glide's CPU is coupled to a 4.0 inch, 480 by 800 pixel color Super AMOLED touch screen display. *See id.* The Samsung Captivate Glide provides a graphical user interface and a virtual keyboard on a touch screen, as shown below:

Claim 18 of the '172 Patent	Infringement by Samsung Captivate Glide
first area of the touch screen display that displays a current character string being input by a user with the keyboard;	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:

Claim 18 of the '172 Patent	Infringement by Samsung Captivate Glide
	  Other applications, such as the Task, Email, Gmail, Memo, Mini Diary, and Talk applications, provide the same functionality.
in a second area of the touch screen display separate from the	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 Captivate Glide
first area that displays the current character string or a portion thereof and a suggested replacement character string for the current character string;

The second area is located below the first area and separated by a gray border.

Other applications, such as the Task, Email, Gmail, Memo, Mini Diary, and Talk applications, provide the same functionality. |
| wherein; the | The Samsung Captivate Glide replaces the current character string in the first area with the suggested replacement |

Claim 18 of the '172 Patent	Infringement by Samsung Captivate Glide
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;	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." User selects "?" Other applications, such as the Task, Email, Gmail, Memo, Mini Diary, and Talk applications, provide the same functionality.

Claim 18 of the '172 Patent	Infringement by Samsung Captivate Glide
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	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. User selects "message" Other applications, such as the Task, Email, Gmail, Memo, Mini Diary, and Talk applications, provide the same

7

Claim 18 of the '172 Patent	Infringement by Samsung Captivate Glide
	functionality.
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.	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. User selects "messaf" Other applications, such as the Task, Email, Gmail, Memo, Mini Diary, and Talk applications, provide the same

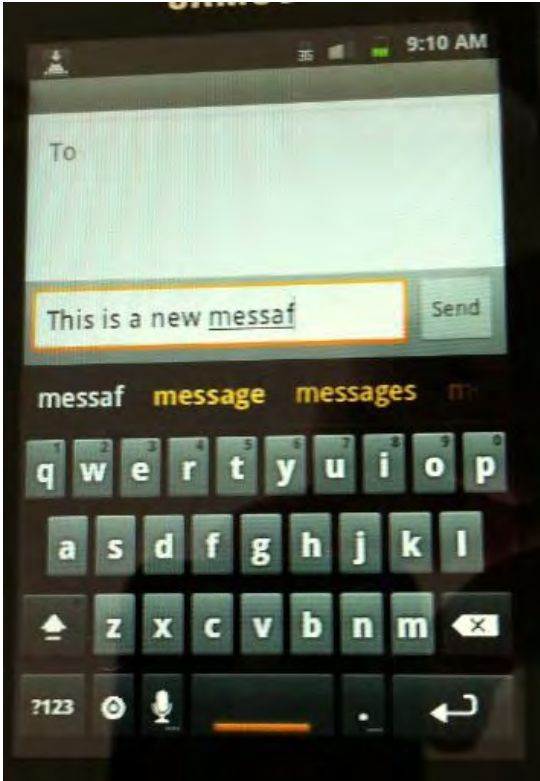| Claim 18 of the '172 Patent	Infringement by Samsung Captivate Glide
	functionality.

EXHIBIT A3

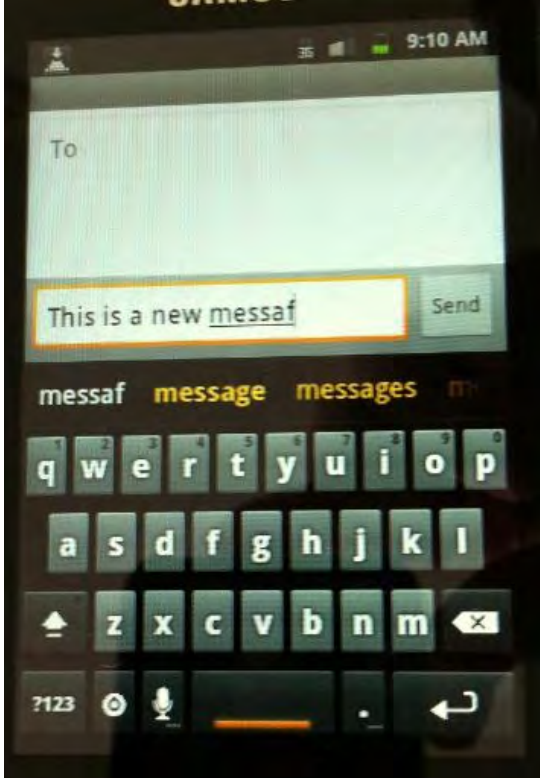# CONQUER 4G

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

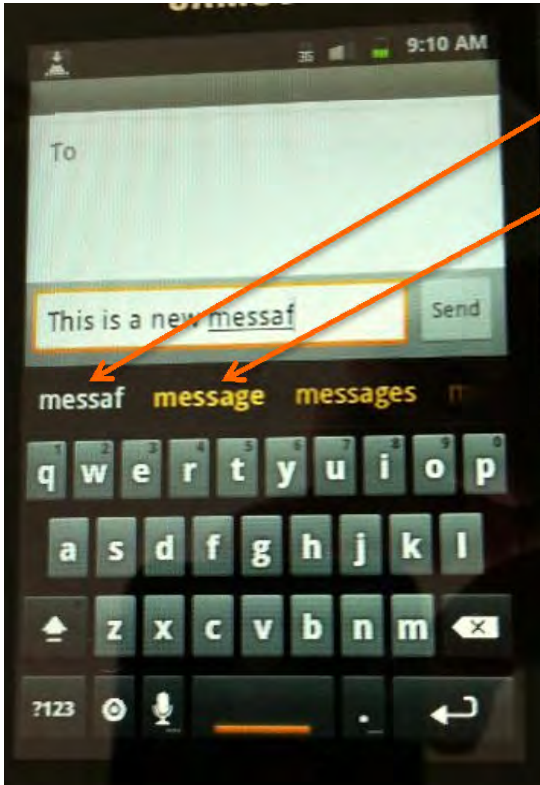**Infringement by Samsung Conquer 4G of U.S. Patent No. 8,074,172**

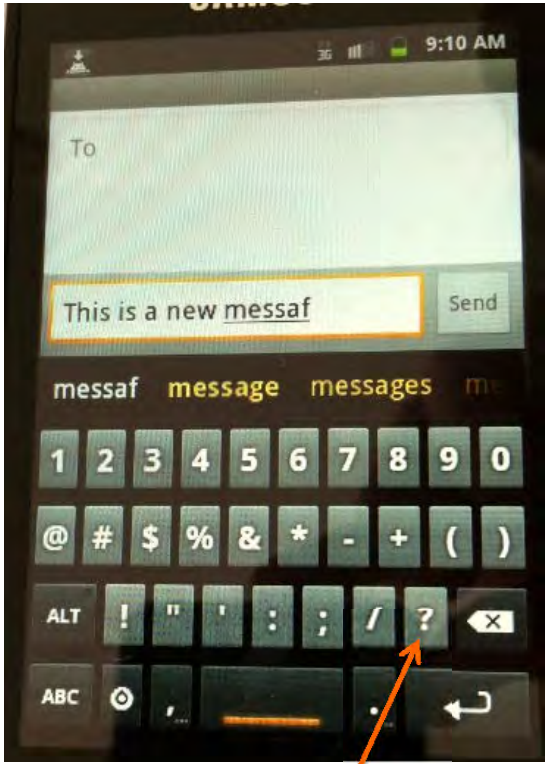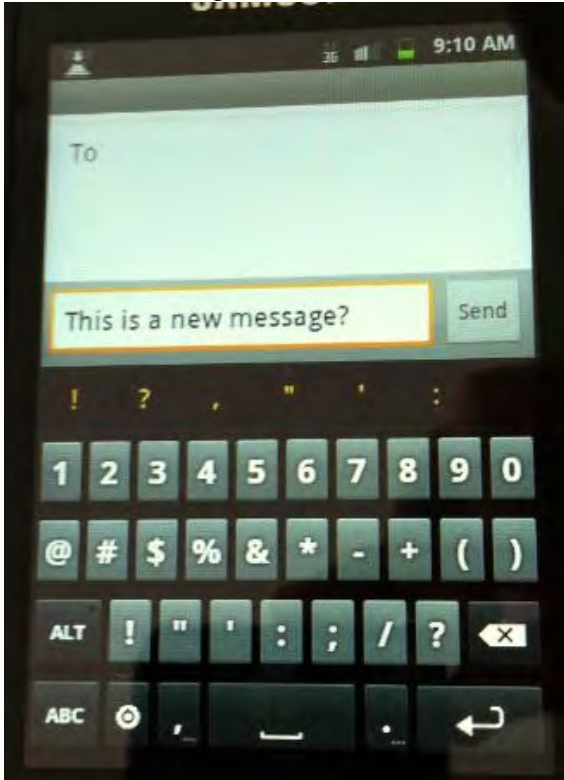| Claim 18 of the '172 Patent	Infringement by Samsung Conquer 4G
18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising[1]:	To the extent that the preamble may be construed to be limiting, the Samsung Conquer 4G provides a graphical user interface on a portable electronic device, as evidenced by the presence of a CPU, memory devices, and a display device. *See* Conquer 4G: Specifications*, available at* http://www.samsung.com/us/mobile/cell-phones/SPH-D600ZKASPR-specs ("Specifications"). The Samsung Conquer 4G has a 1 GHz processor. *Id.* **CPU / Processor** Processor Speed, Type — 1GHz, MSM8655 The Samsung Conquer 4G also has storage as indicated in the Specifications and indicated below. *Id.* **Memory** Internal Memory — 512MB 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.
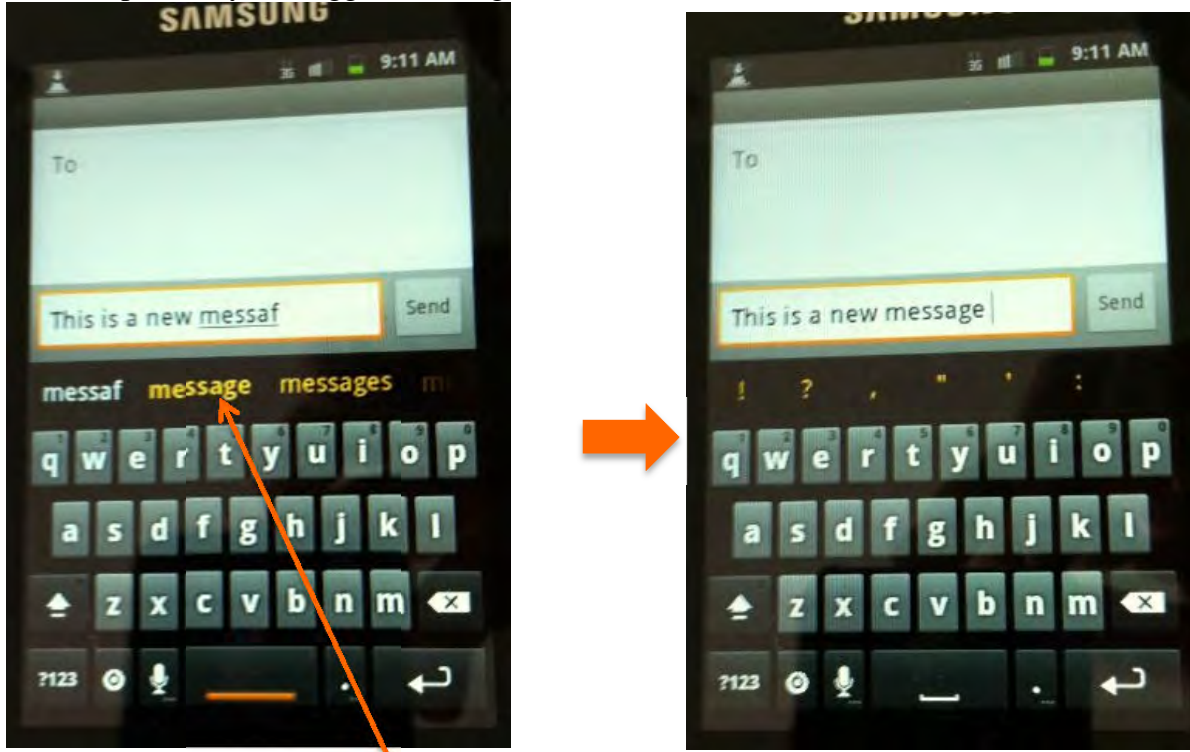
Claim 18 of the '172 Patent	Infringement by Samsung Conquer 4G
	As shown below, and in the Specifications, the Samsung Conquer 4G's CPU is coupled to a 3.5" HVGA touch screen display. (*See id.*): **Display** | Main Display Resolution	HVGA
Main Display Size	3.5" Display
Main Display Technology	262K TFT
Touch Screen	Yes	

2

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
first area of the touch screen display that displays a current character string being input by a user with the keyboard;	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:

4

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.
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;	In a second area of the touch screen display, the current string and a suggested replacement string are displayed. The second area is located below the first area and separated by a gray border. Other applications, such as the Email, Gmail and Talk applications, provide the same functionality.

5

Claim 18 of the '172 Patent	Infringement by Samsung Conquer 4G
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 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." User selects "?"

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.
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	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. User selects "message"

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.
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.	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. User selects "messaf"

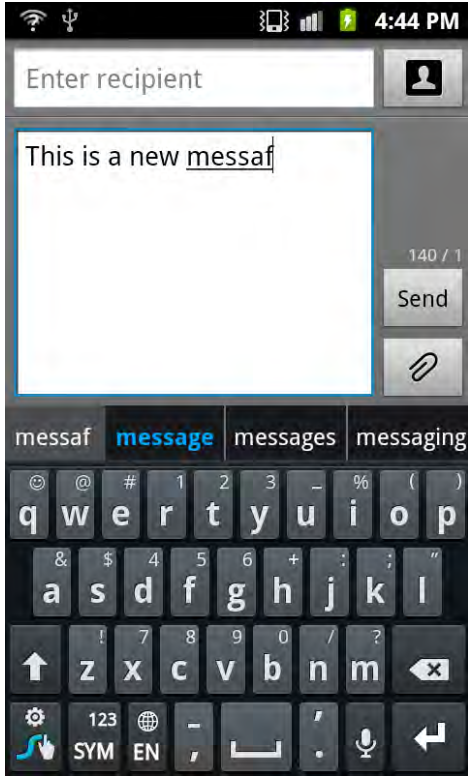| Claim 18 of the '172 Patent	Infringement by Samsung Conquer 4G
	Other applications, such as the Email, Gmail and Talk applications, provide the same functionality.

EXHIBIT A4

EXHIBIT II 4.G
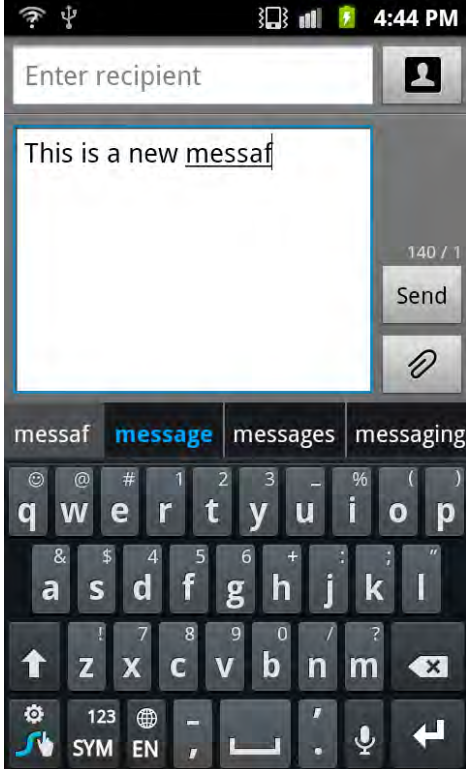
INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172

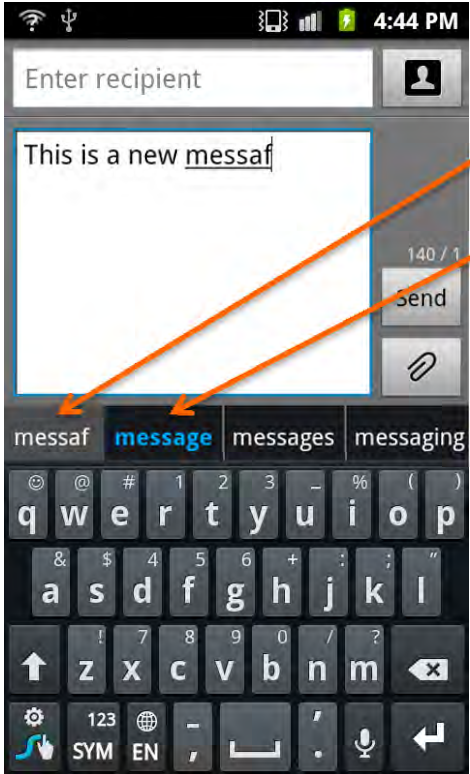**Infringement by Samsung Exhibit II 4G of U.S. Patent No. 8,074,172**

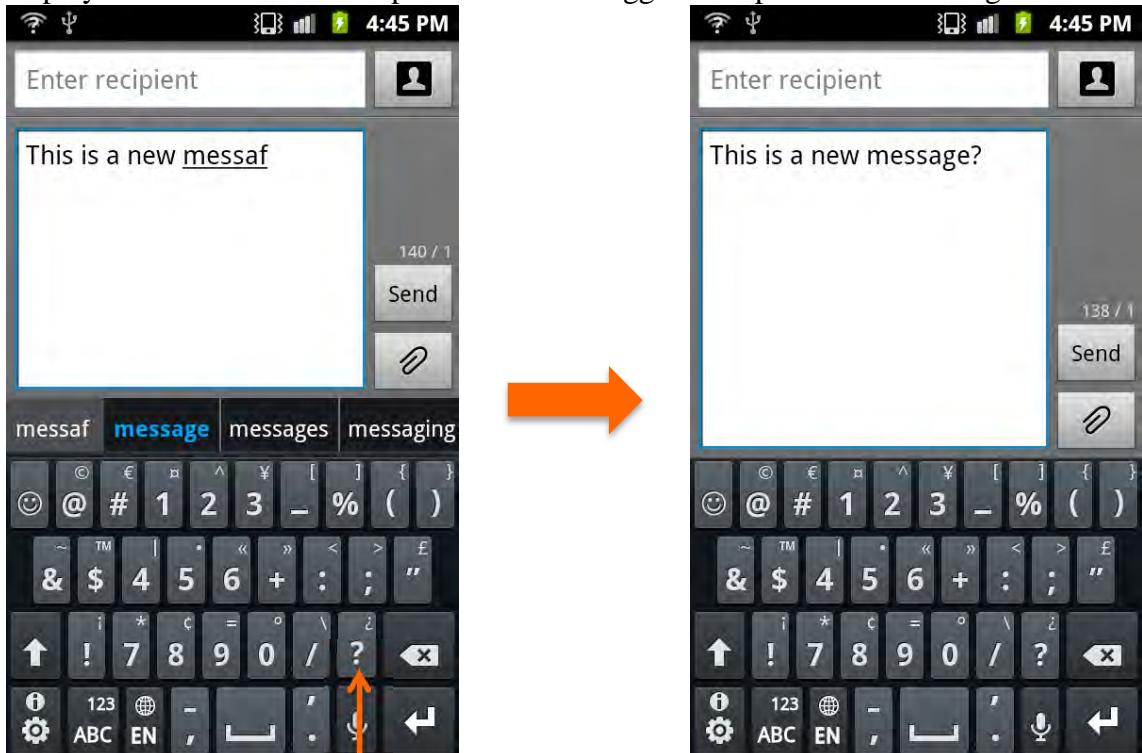| Claim 18 of the '172 Patent	Infringement by Samsung Exhibit II 4G
18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising[1]:	To the extent that the preamble may be construed to be limiting, the Samsung Exhibit II 4G provides a graphical user interface on a portable electronic device, as evidenced by the presence of a CPU, memory devices, and a display device. *See* Exhibit II 4G: Specifications, *available at* http://www.samsung.com/us/mobile/cell-phones/SGH-T679DBBTMB-specs ("Specifications"). The Samsung Exhibit II 4G has a 1 GHz processor. *Id.* **CPU** Processor Speed, Type — 1GHz, MSM8255, Qualcomm The Samsung Exhibit II 4G also has storage as indicated in the Specifications and indicated below. *Id.* **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
	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. *See id.*

Display

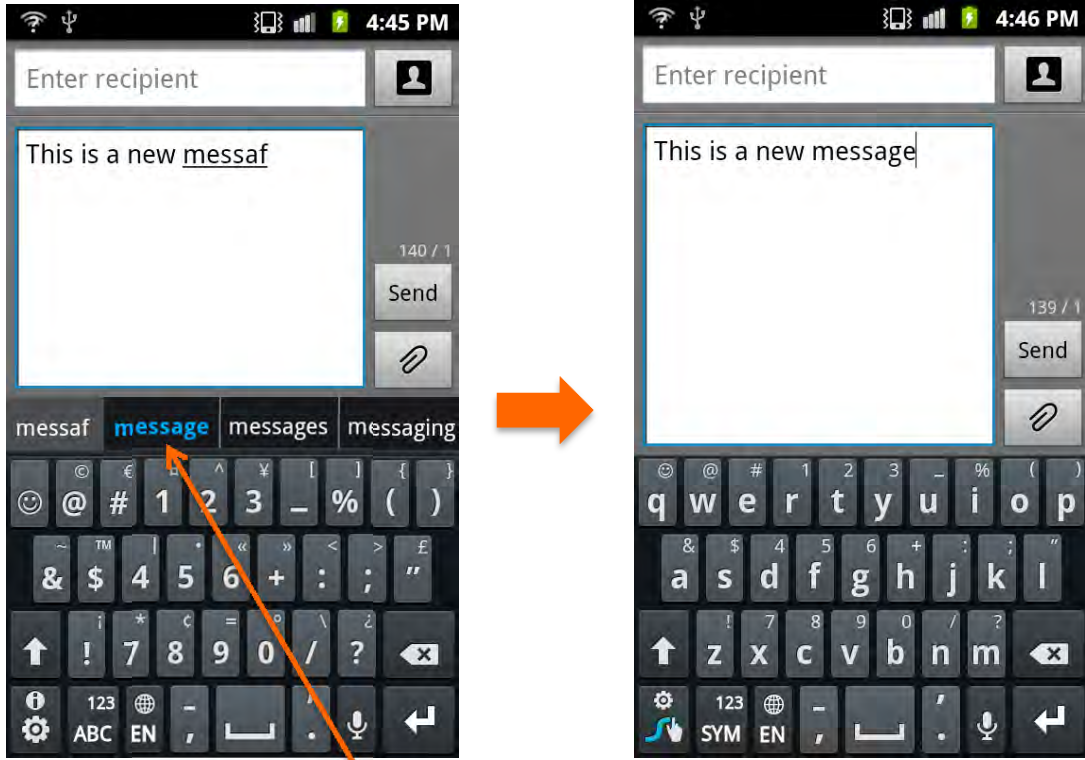| Main Display Resolution	480x800 Pixel
Main Display Size	3.7"
Main Display Technology	16M TFT
Touch Screen	Yes

2

Claim 18 of the '172 Patent	Infringement by Samsung Exhibit II 4G
	The Samsung Exhibit II 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 Exhibit II 4G
first area of the touch screen display that displays a current character string being input by a user with the keyboard;	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:

4

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.
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;	In a second area of the touch screen display, the current string and a suggested replacement string are displayed. The second area is located below the first area and separated by a gray border.

5

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.
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 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."

6

Claim 18 of the '172 Patent	Infringement by Samsung Exhibit II 4G
	### User selects "?" Other applications, such as the Email, Gmail, Memo, Mini Diary, Talk, and Task 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	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.

Claim 18 of the '172 Patent	Infringement by Samsung Exhibit II 4G
	User selects "message" Other applications, such as the Email, Gmail, Memo, Mini Diary, Talk, and Task applications, provide the same functionality.
the current character string in the first area is kept if the user performs a second	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.

8
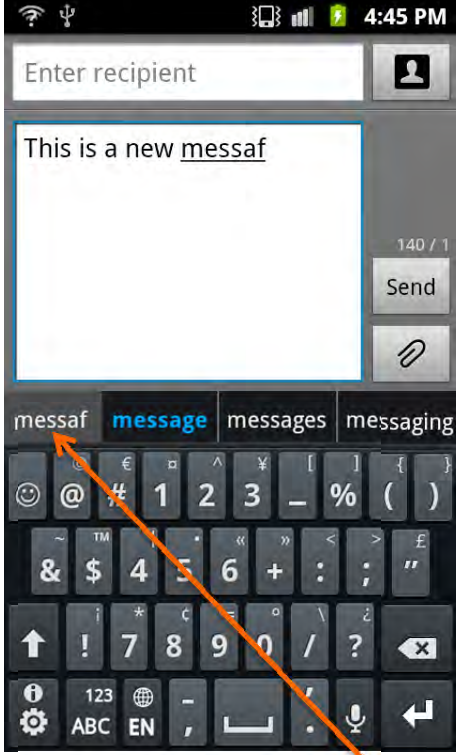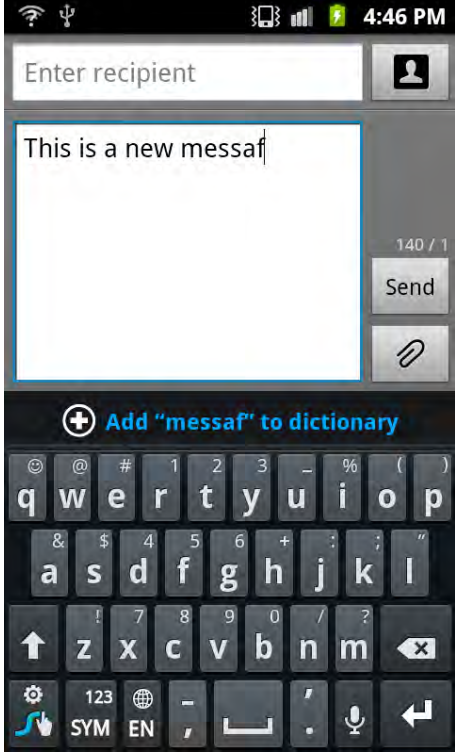
Claim 18 of the '172 Patent	Infringement by Samsung Exhibit II 4G
gesture in the second area on the current character string or the portion thereof displayed in the second area.	User selects "messaf" Other applications, such as the Email, Gmail, Memo, Mini Diary, Talk, and Task applications, provide the same functionality.

EXHIBIT A5

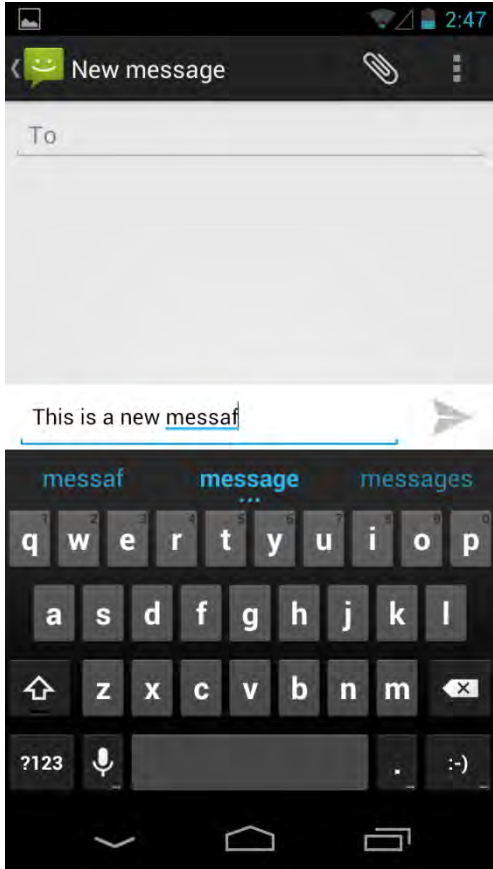# GALAXY NEXUS

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

Infringement by Samsung Galaxy Nexus of U.S. Patent No. 8,074,172[1]

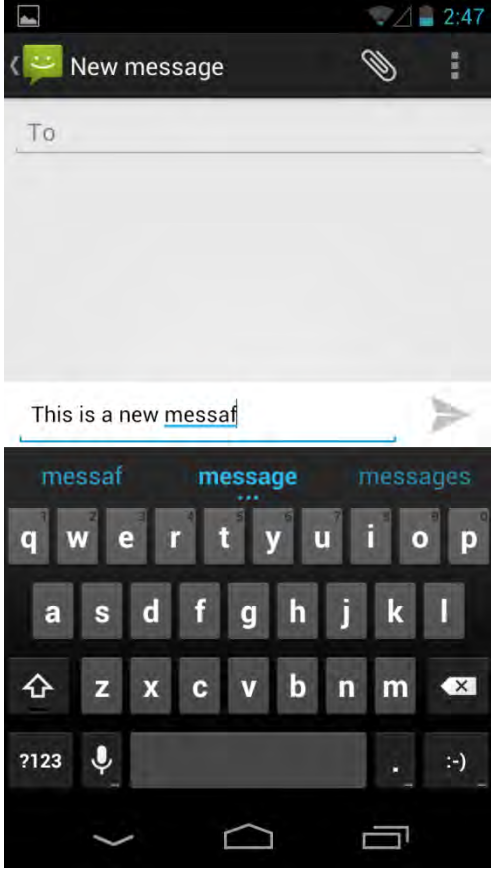| Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Nexus
18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising[2]:	To the extent that the preamble may be construed to be limiting, the Samsung Galaxy Nexus provides a graphical user interface on a portable electronic device, as evidenced by the presence of a CPU, memory devices, and a display device. *See* Galaxy Nexus: Specifications*, available at* http://www.samsung.com/us/mobile/cell-phones/SCH-I515MSAVZW-specs ("Specifications"). The Samsung Galaxy Nexus has a 1.2 GHz dual core processor. *Id.* **CPU / Processor** Processor Speed, Type — 1.2GHz Dual-Core Processor As indicated in the Specifications, the Samsung Galaxy Nexus also has memory. *Id.* **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.
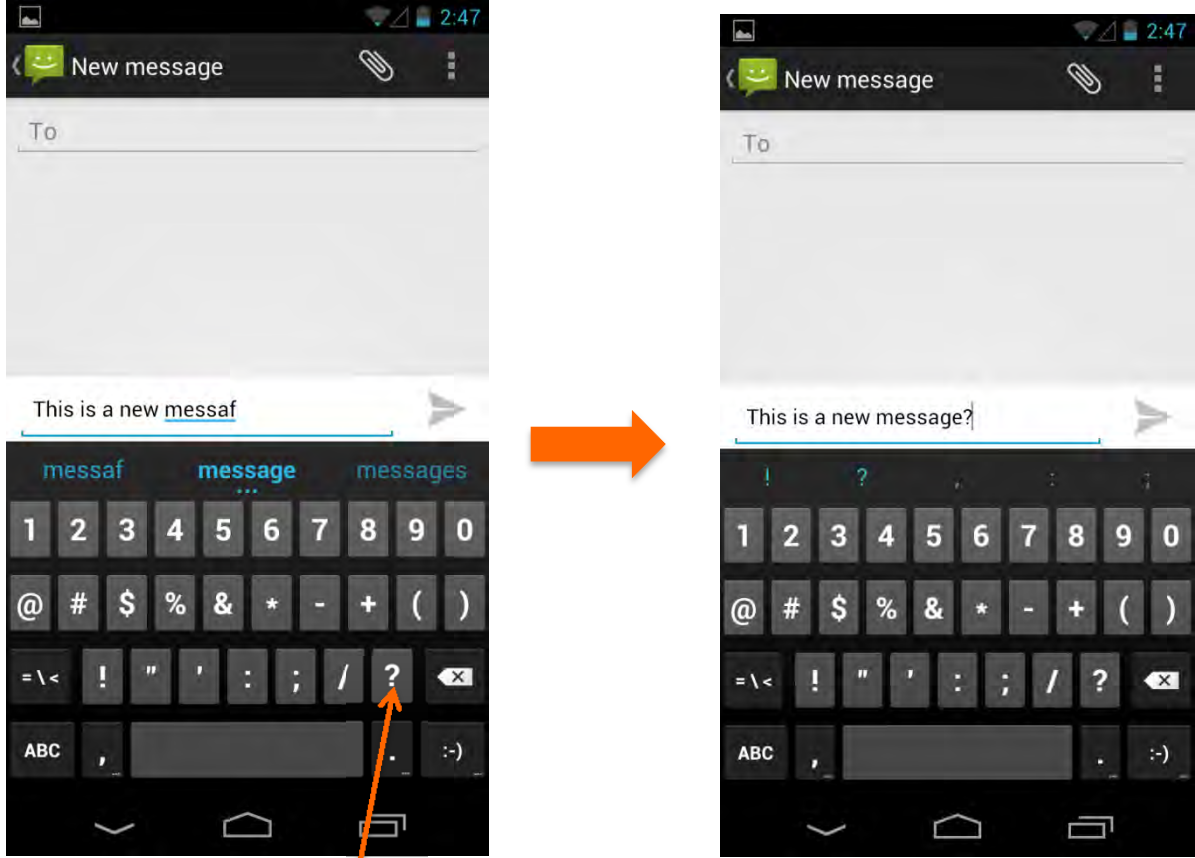
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Nexus
	As shown below and in the Specifications, the Samsung Galaxy Nexus's CPU is coupled to a 4.65 inch, 1280x720 pixel color HD Super AMOLED contoured touch screen display. *See id.* **Display** Main Display Resolution — 1280x720 pixels Main Display Size — 4.65" Display Main Display Technology — HD Super AMOLED™ contoured display

2
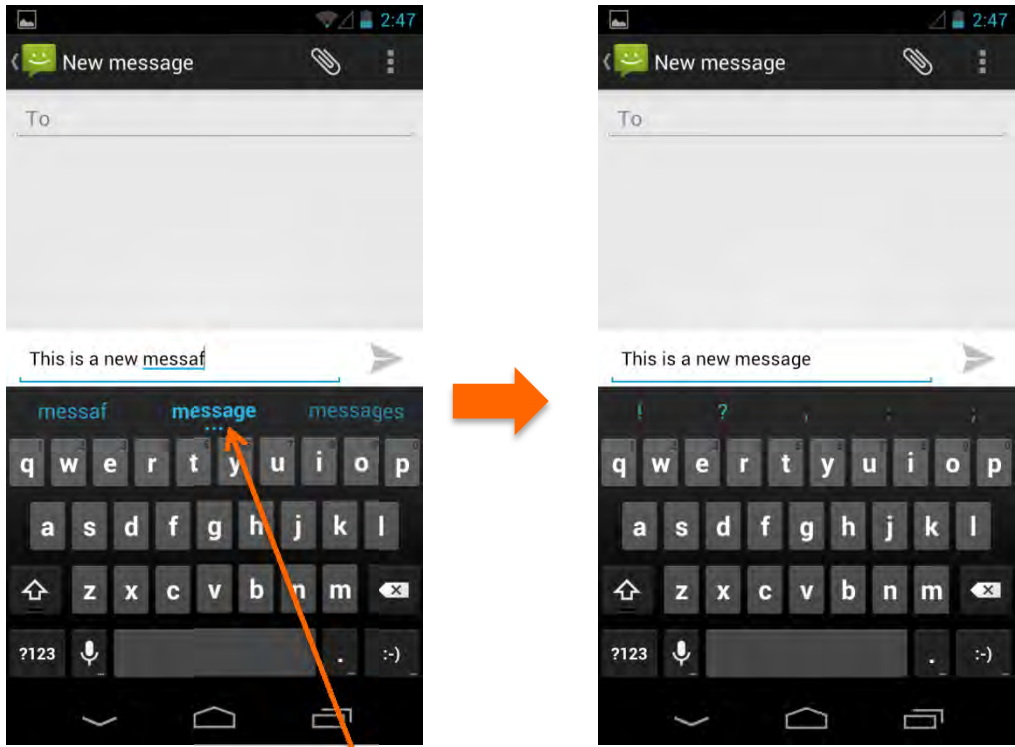
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Nexus
	The Samsung Galaxy Nexus provides a graphical user interface and a virtual keyboard on a touch screen, as shown below:

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Nexus
first area of the touch screen display that displays a current character string being input by a user with the keyboard;	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:

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.
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.

5

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Nexus
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;

The second area is located below the first area and differentiated by a different background color.

Other applications, such as the Email, Gmail, and Talk applications, provide the same functionality. |

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Nexus
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 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." User selects "?"

7

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.
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	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. User selects "message"

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.
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.	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. User selects "messaf"

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

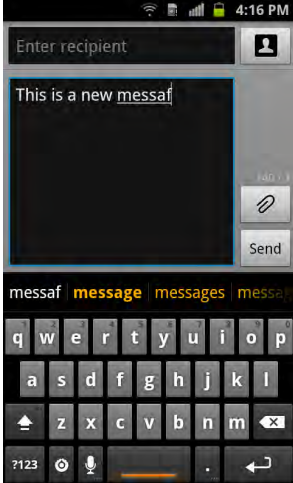# GALAXY SII

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

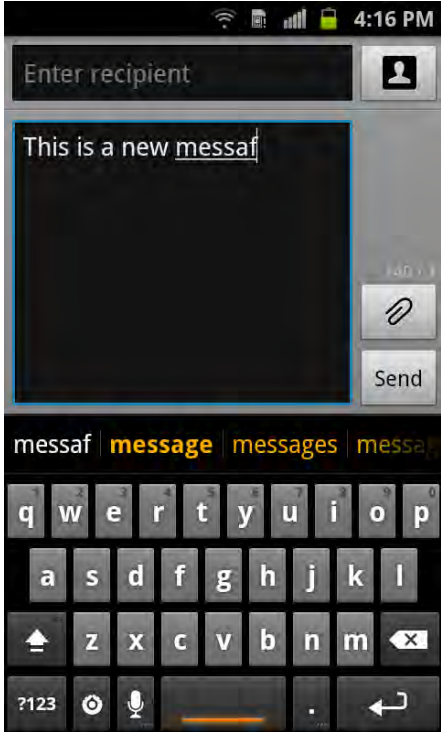**Infringement by Samsung Galaxy S II of U.S. Patent No. 8,074,172[1]**

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy S II
18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising[2]:	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. *See* Galaxy S II: Specifications*, available at* http://www.samsung.com/us/mobile/cell-phones/SGH-I777ZKAATT-specs ("Specifications").

The Samsung Galaxy S II has a 1.2 GHz dual core processor. *Id.*

CPU / Processor	
Processor Speed, Type	1.2 GHz, Dual Core (Samsung Exnyos C210)

The Samsung Galaxy S II also has storage as indicated in the Specifications and indicated below. *Id.*

Memory	
Internal Memory	16GB/1024MB RAM (4GLPDDR*2)
External Memory/microSD™ Capacity	microSD™ Card

---
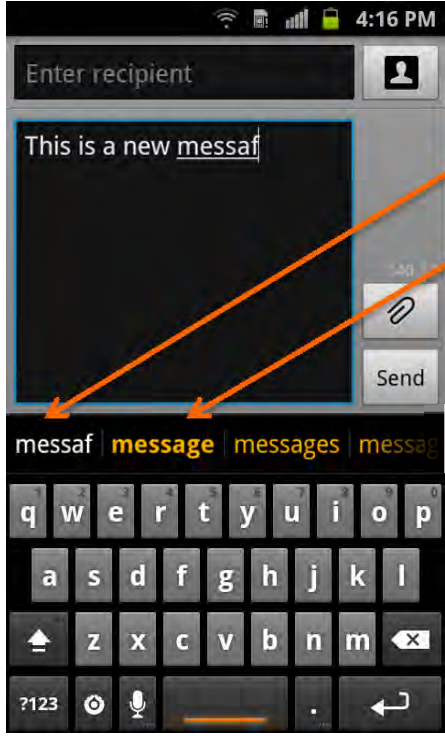
[1] The Samsung Galaxy SII is available from AT&T and T-Mobile. The screenshots and specifications provided in this claim chart are exemplary and come from the AT&T Galaxy SII. The functionality described in this document is identical on the T-Mobile Galaxy SII. Therefore, this chart applies to that 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.
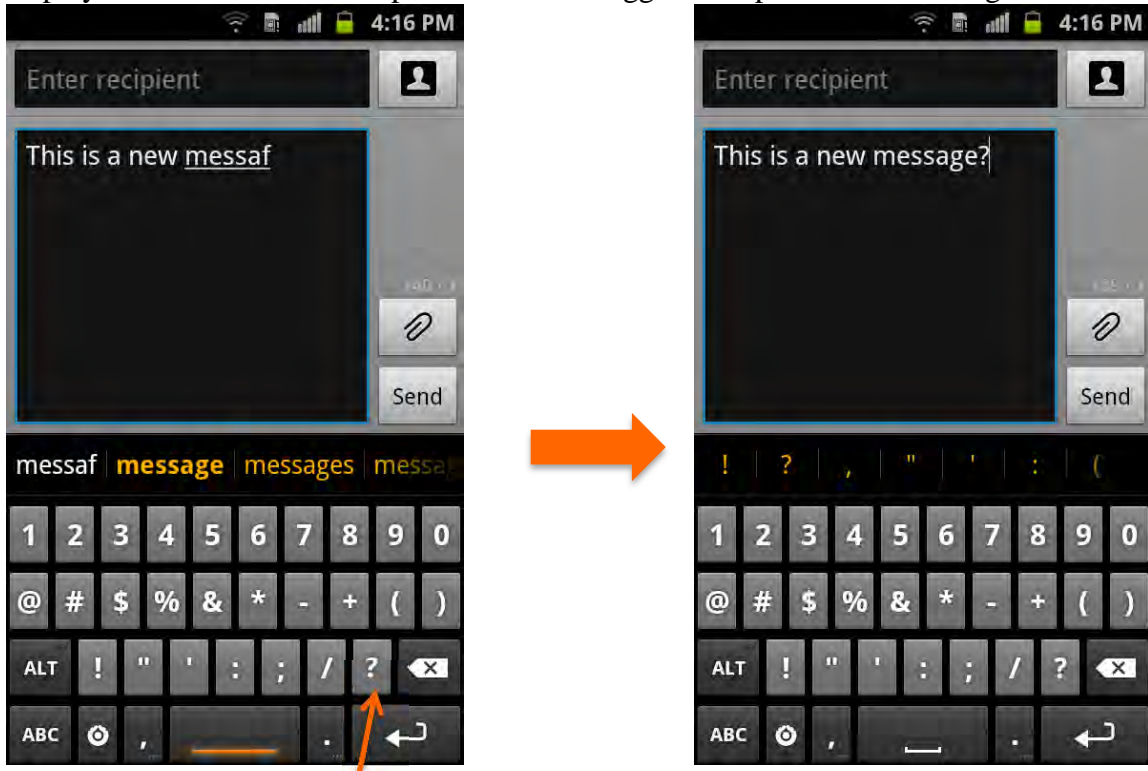
[2] Apple's inclusion of citations related to the claim preamble in this claim chart should not be interpreted as an admission that the preamble is limiting. Apple reserves the right to take the position that claim preambles are limiting or not limiting on a claim-by-claim basis.

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy S II
	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. *See id.* The Samsung Galaxy S II provides a graphical user interface and a virtual keyboard on a touch screen, as shown below:

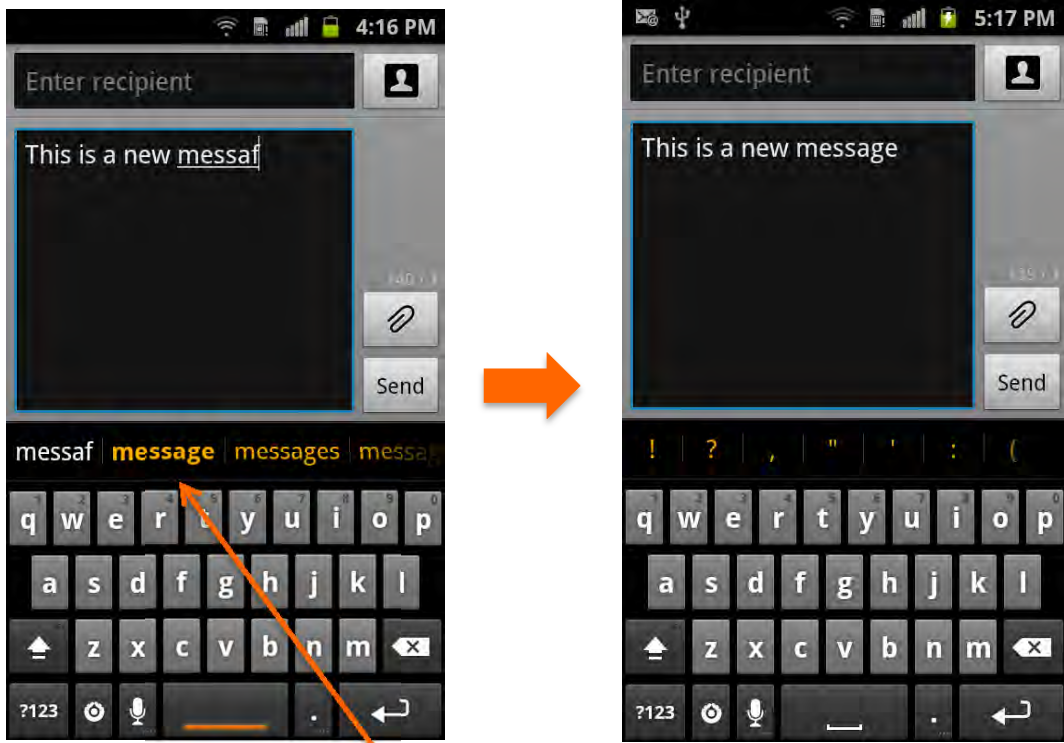| Claim 18 of the '172 Patent	Infringement by Samsung Galaxy S II
first area of the touch screen display that displays a current character string being input by a user with the keyboard;	The Samsung Galaxy S II displays a current character string being input by a user with the keyboard in a first area 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:

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

4

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy S II
first area that displays the current character string or a portion thereof and a suggested replacement character string for the current character string;	 The second area is located below the first area and separated by a gray border. Other applications, including the Email, Gmail, Task, Talk, Memo, and Mini Diary applications, provide the same functionality.
wherein; the	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

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy S II
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;	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." User selects "?" Other applications, including the Email, Gmail, Task, Talk, Memo, and Mini Diary applications, provide the same functionality.
the current	The Samsung Galaxy S II replaces the current character string in the first area with the suggested replacement

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy S II
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	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. User selects "message" Other applications, including the Email, Gmail, Task, Talk, Memo, and Mini Diary applications, provide the same functionality.

7

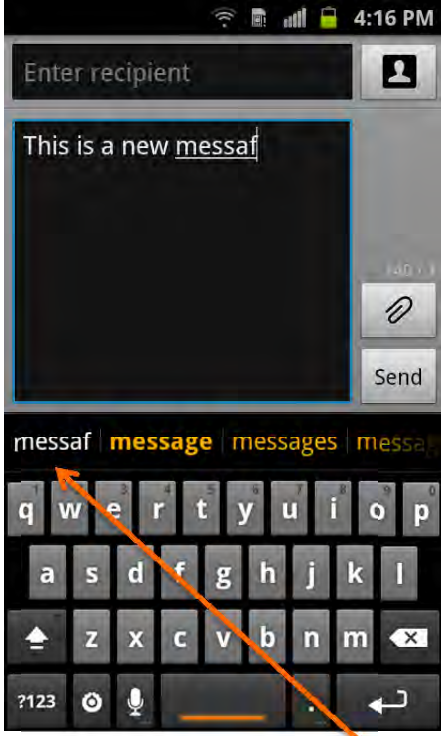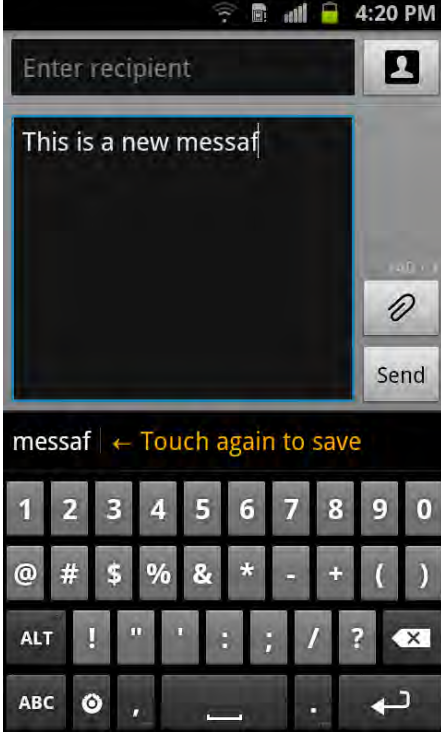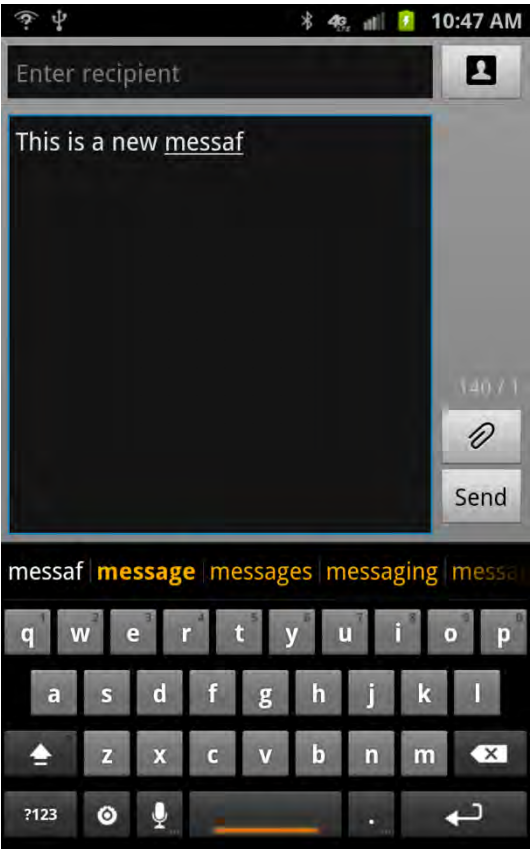| Claim 18 of the '172 Patent	Infringement by Samsung Galaxy S II
the current character string in the first area is kept if the user performs a second gesture in the second area on the current character string or the portion thereof displayed in the second area.	If the user performs a second gesture 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. User selects "messaf" Other applications, including the Email, Gmail, Task, Talk, Memo, and Mini Diary applications, provide the same functionality.

EXHIBIT A7

GALAXY NOTE

INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172
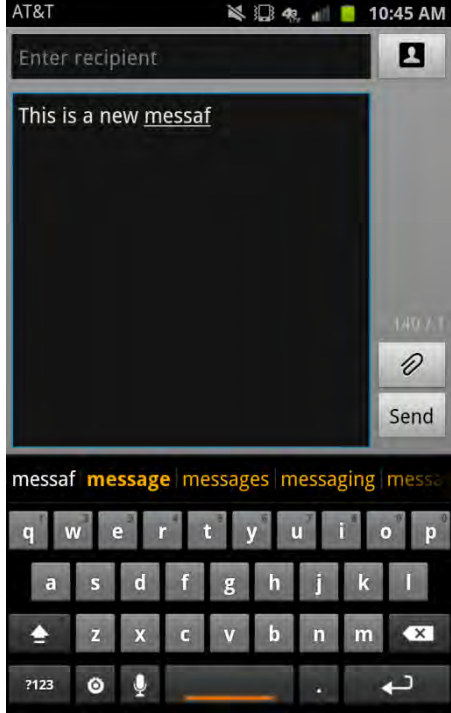
Infringement by Samsung Galaxy Note of U.S. Patent No. 8,074,172
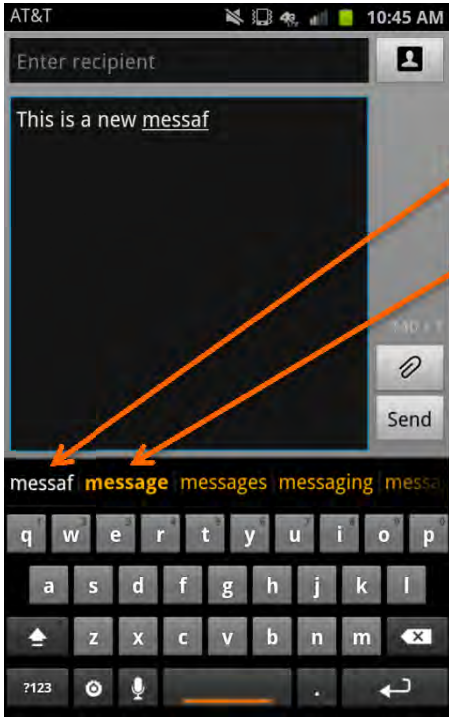
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Note
18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising[1]:	To the extent that the preamble may be construed to be limiting, the Samsung Galaxy Note provides a graphical user interface on a portable electronic device, as evidenced by the presence of a CPU, memory devices, and a display device. *See* Galaxy Note: Specifications, *available at* http://www.samsung.com/global/microsite/galaxynote/note/spec.html?type=find ("Specifications"). The Samsung Galaxy Note has a 1.4 GHz dual core processor. *Id.* **Processor** · 1.4GHz Dual Core Processor The Samsung Galaxy Note also has storage as indicated in the Specifications and indicated below. *Id.* **Memory** · 16GB Internal memory + microSD (up to 32GB)
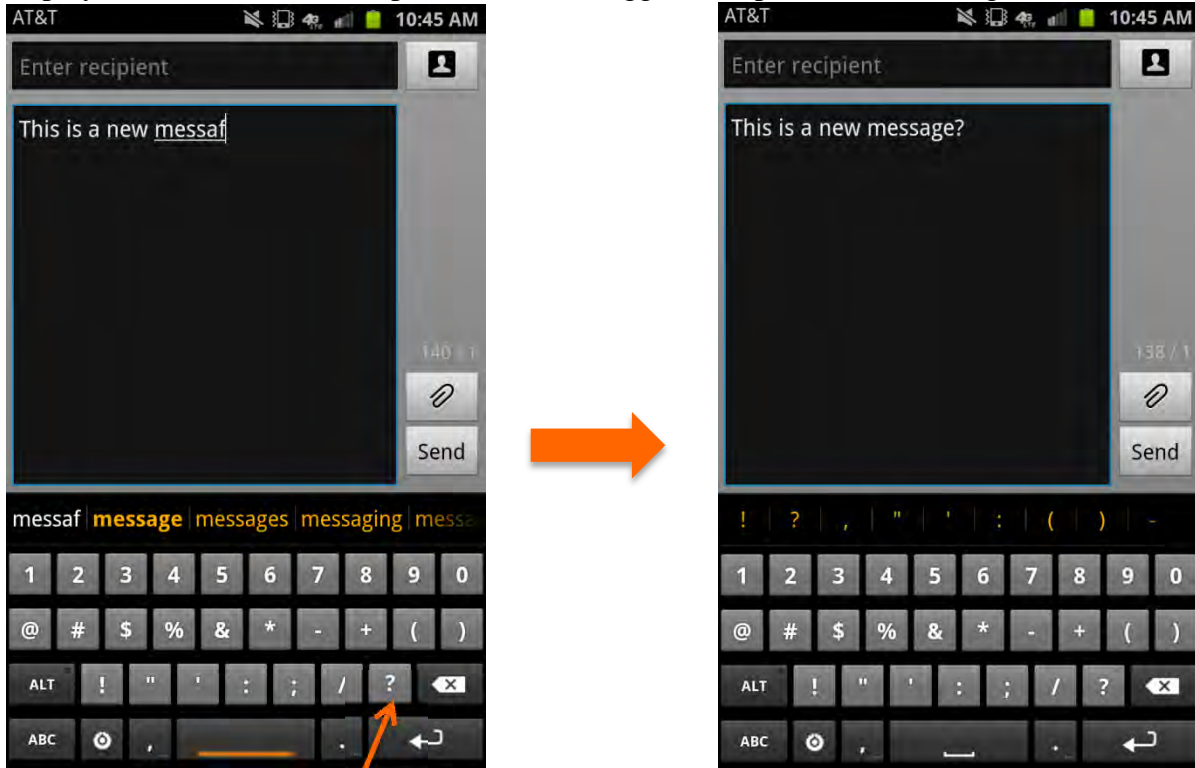
---

[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.
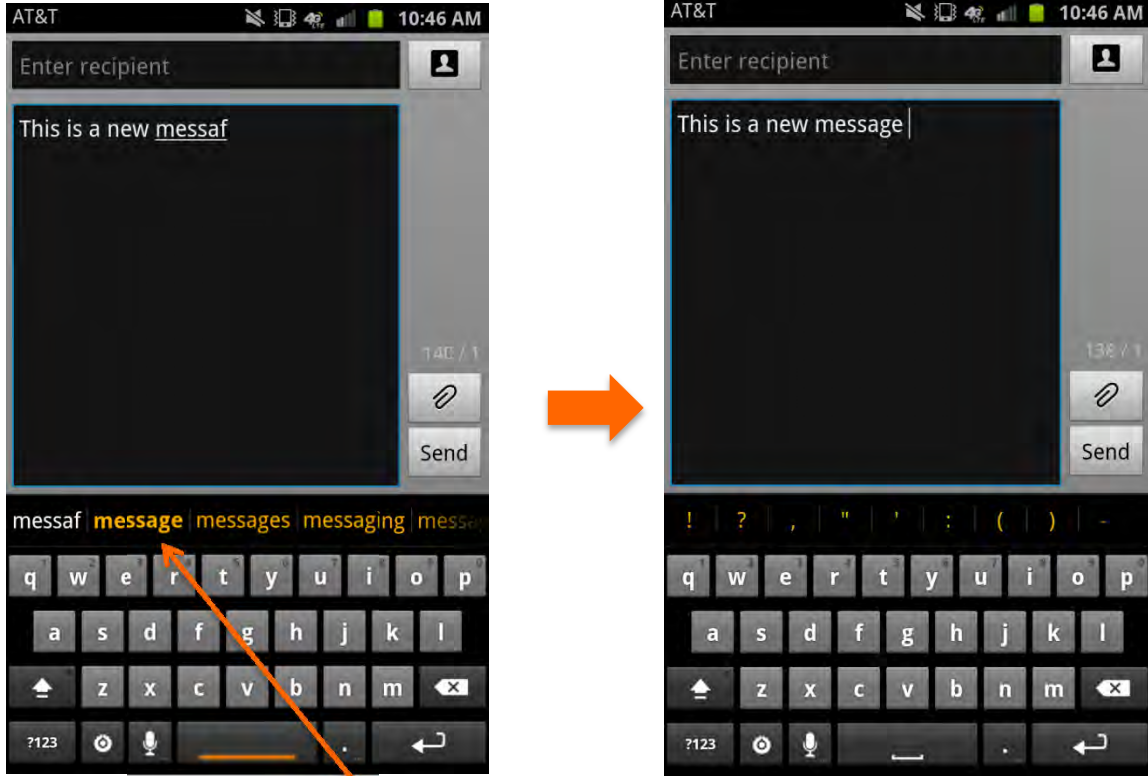
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Note
	As shown below and in the Specifications, the Samsung Galaxy Note's CPU is coupled to a 5.3 inch, 1280x800 pixel color HD Super AMOLED touch screen display. *See id.* **Display** • 5.3" WXGA (1280 x 800) screen* • HD Super AMOLED
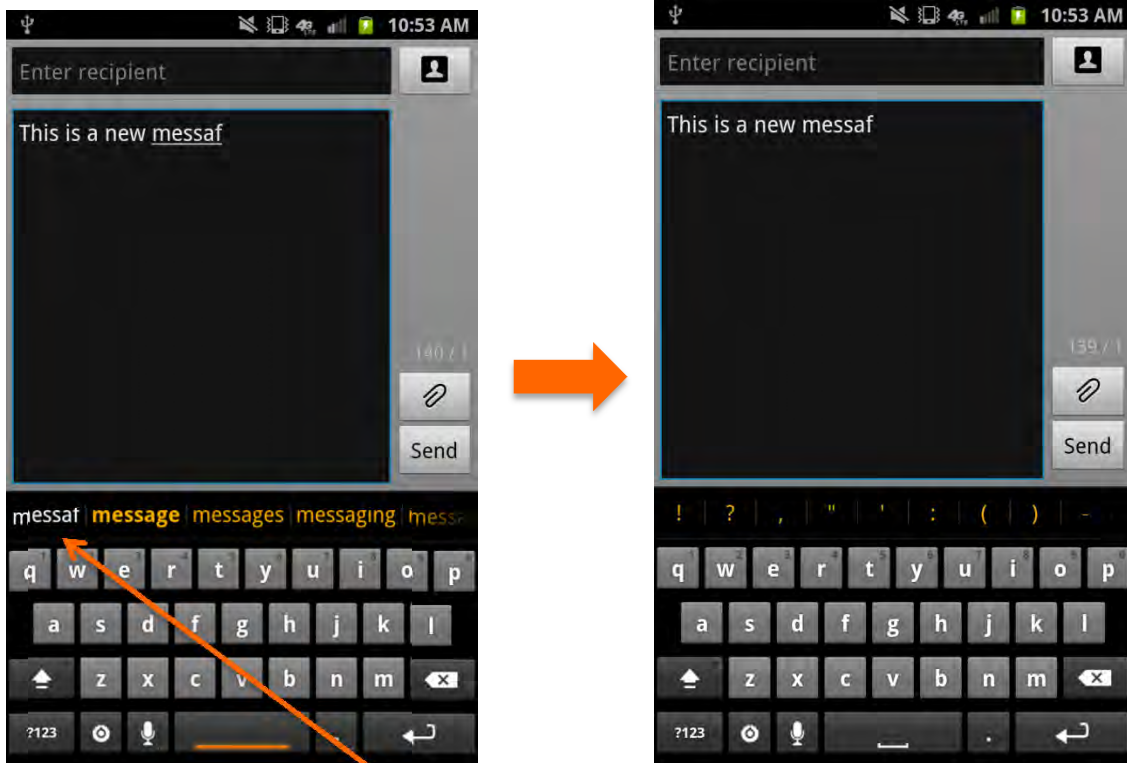
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Note
	The Samsung Galaxy Note provides a graphical user interface and a virtual keyboard on a touch screen, as shown below:

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Note
first area of the touch screen display that displays a current character string being input by a user with the keyboard;	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: Other applications, such as the Email, Gmail, Mini Diary, S Memo, and Talk applications, provide the same functionality.

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Note
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;	In a second area of the touch screen display, the current string and a suggested replacement string are displayed. The second area is located below the first area and is separated by a gray border. Other applications, such as the Email, Gmail, Mini Diary, S Memo, and Talk applications, provide the same functionality.

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Note
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 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." User selects "?"

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.
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	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. User selects "message"

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.
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.	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. User selects "messaf"

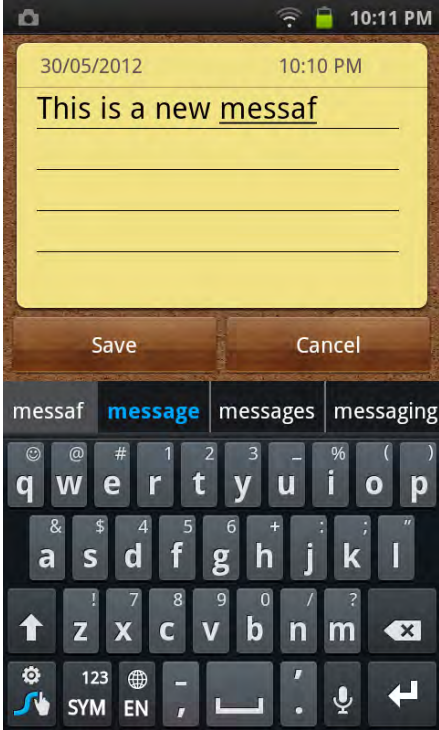| Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Note
	Other applications, such as the Email, Gmail, Mini Diary, S Memo, and Talk applications, provide the same functionality.

EXHIBIT A8

GALAXY PLAYER 4.0

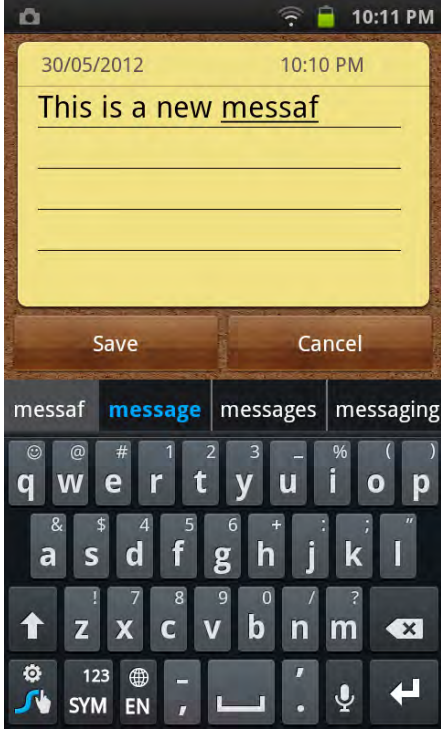## INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172

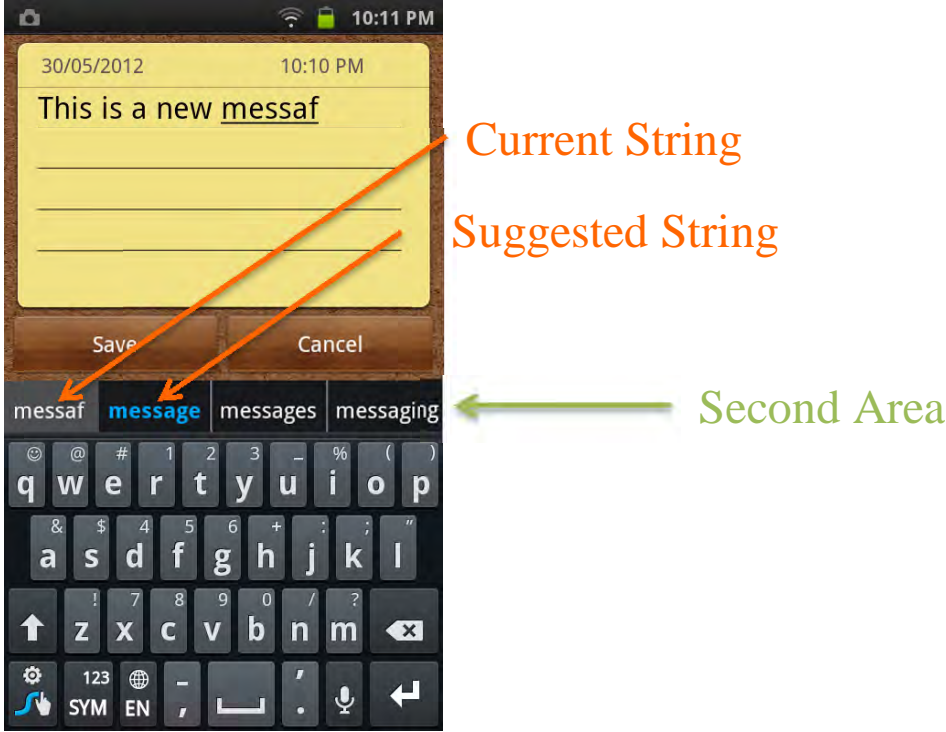**Infringement by Samsung Galaxy Player 4.0 of U.S. Patent No. 8,074,172**

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Player 4.0
18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising[1]:	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. *See* Galaxy Player 4.0: Specifications, *available at* http://www.samsung.com/us/mobile/mp3-players/YP-G1CWY/XAA-specs ("Specifications"). The Samsung Galaxy Player 4.0 runs on the Android operating system. *Id.* The Samsung Galaxy Player 4.0 also has storage as indicated in the Specifications and indicated below. *Id.* **General** Storage Type Flash Memory Memory Capacity 8GB

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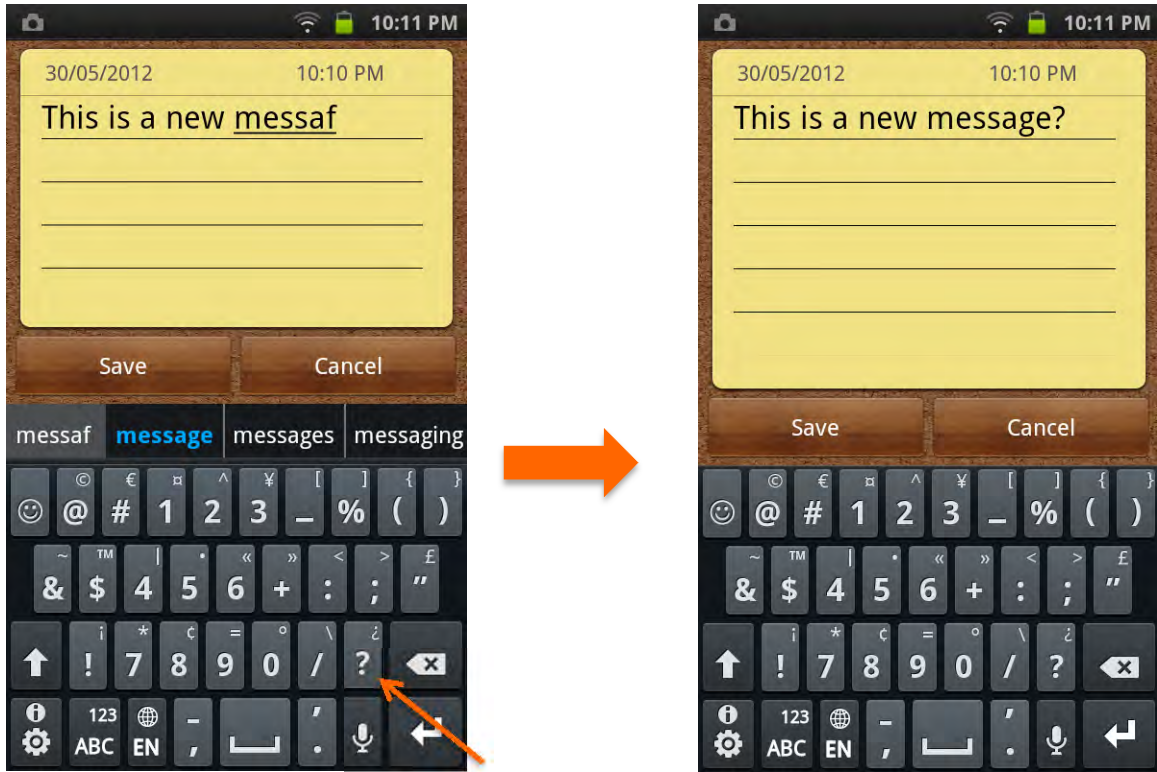
[1] Apple's inclusion of citations related to the claim preamble in this claim chart should not be interpreted as an admission that the preamble is limiting. Apple reserves the right to take the position that claim preambles are limiting or not limiting on a claim-by-claim basis.

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Player 4.0
	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. (*See id.*): **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
	The Samsung Galaxy Player 4.0 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 Galaxy Player 4.0
first area of the touch screen display that displays a current character string being input by a user with the keyboard;	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:

Other applications, such as the Email, Talk, Gmail, and Mini Diary applications, provide the same functionality.

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Player 4.0
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;	In a second area of the touch screen display, the current string and a suggested replacement string are displayed. Current String Suggested String Second Area The second area is located below the first area and differentiated by a different background color. Other applications, such as the Email, Talk, Gmail, and Mini Diary applications, provide the same functionality.

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Player 4.0
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 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." User selects "?" Other applications, such as the Email, Talk, Gmail, and Mini Diary applications, provide the same functionality.

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Player 4.0
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	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. User selects "message" Other applications, such as the Email, Talk, Gmail, and Mini Diary applications, provide the same functionality.

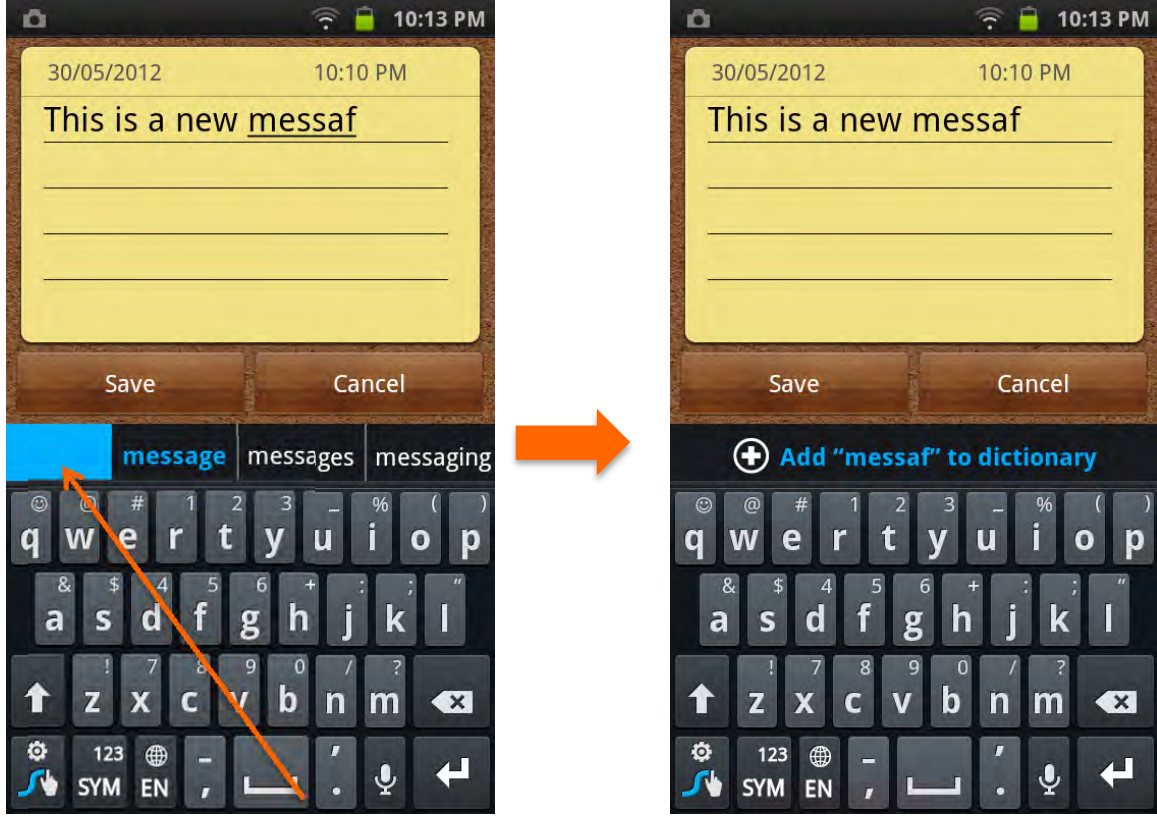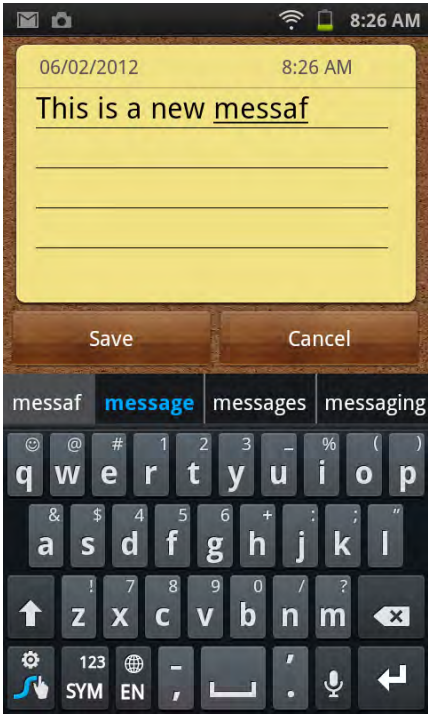| Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Player 4.0
the current character string in the first area is kept if the user performs a second gesture in the second area on the current character string or the portion thereof displayed in the second area.	If the user performs a second gesture 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. User selects "messaf" Other applications, such as the Email, Talk, Gmail, and Mini Diary applications, provide the same functionality.

9

EXHIBIT A9

GALAXY PLAYER 5.0

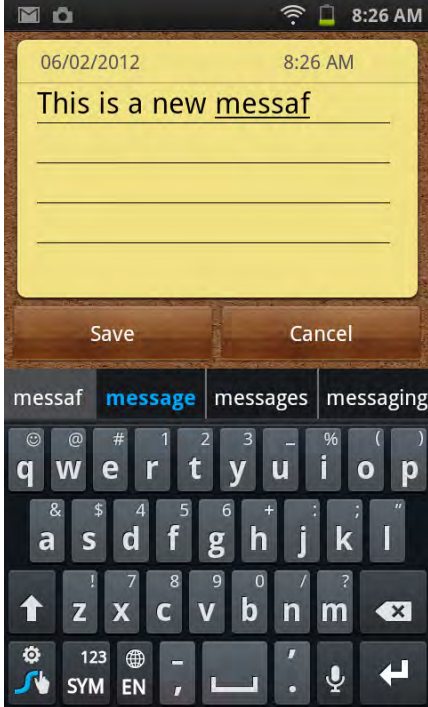**INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172**

Infringement by Samsung Galaxy Player 5.0 of U.S. Patent No. 8,074,172
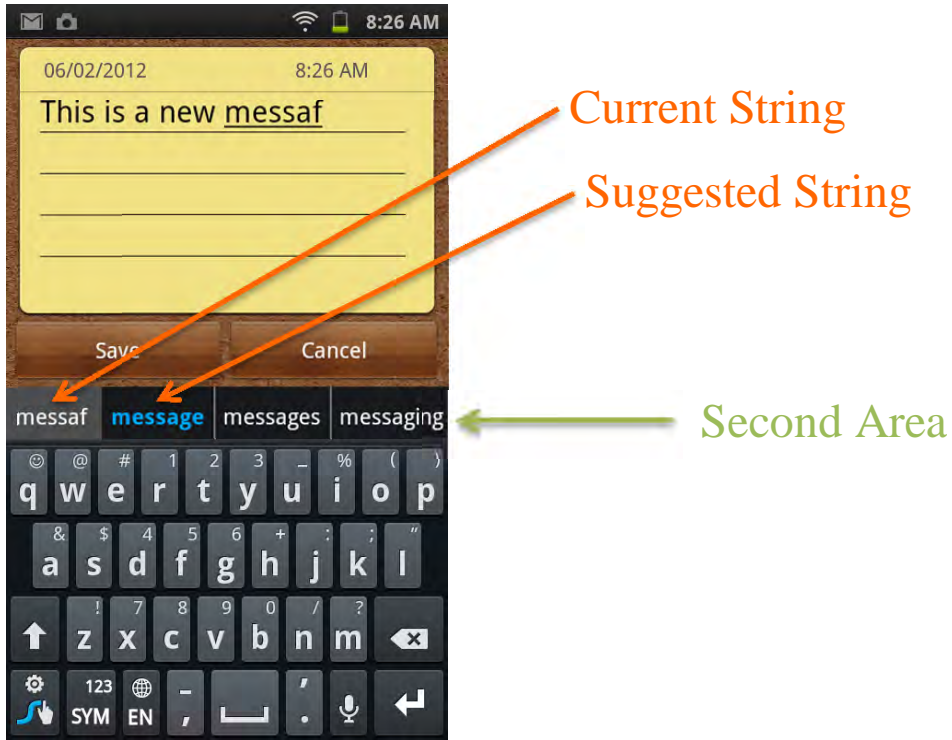
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Player 5.0
18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising[1]:	To the extent that the preamble may be construed to be limiting, the Samsung Galaxy Player 5.0 provides a graphical user 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").

The Samsung Galaxy Player 5.0 runs on the Android operating system. *Id.*

The Samsung Galaxy Player 5.0 also has storage as indicated in the Specifications and indicated below. *Id.*

General	
Storage Type	Flash Memory
Memory Capacity	8GB

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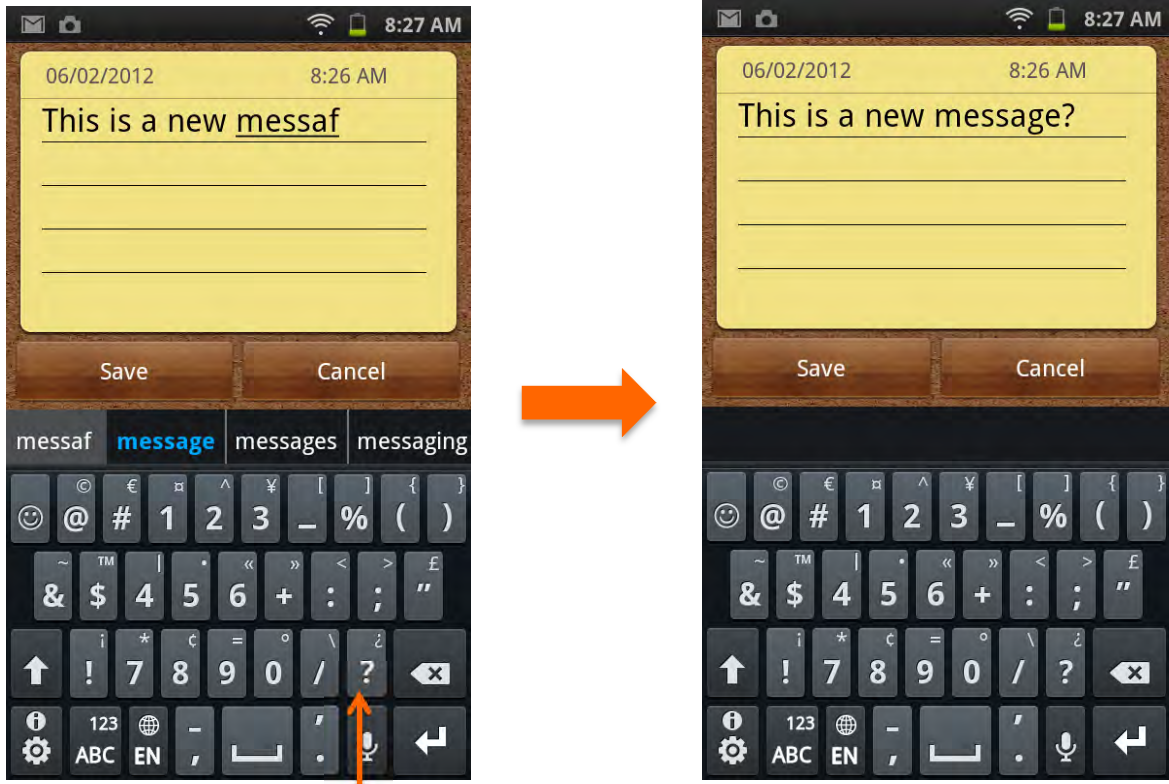
[1] Apple's inclusion of citations related to the claim preamble in this claim chart should not be interpreted as an admission that the preamble is limiting. Apple reserves the right to take the position that claim preambles are limiting or not limiting on a claim-by-claim basis.

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Player 5.0
	As shown below and in the Specifications, the Samsung Galaxy Player 5.0 includes a WVGA 800 by 480 pixel LCD touch screen display. *See id.*

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
	The Samsung Galaxy Player 5.0 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 Galaxy Player 5.0
first area of the touch screen display that displays a current character string being input by a user with the keyboard;	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: Other applications, such as the Email, Mini Diary, Talk, and Gmail applications, provide the same functionality.

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Player 5.0
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;	In a second area of the touch screen display, the current string and a suggested replacement string are displayed. The second area is located below the first area and differentiated by a different background color. Other applications, such as the Email, Mini Diary, Talk, and Gmail applications, provide the same functionality.

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Player 5.0
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 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." Other applications, such as the Email, Mini Diary, Talk, and Gmail applications, provide the same functionality.

6

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Player 5.0
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	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. User selects "message" Other applications, such as the Email, Mini Diary, Talk, and Gmail applications, provide the same functionality.

7

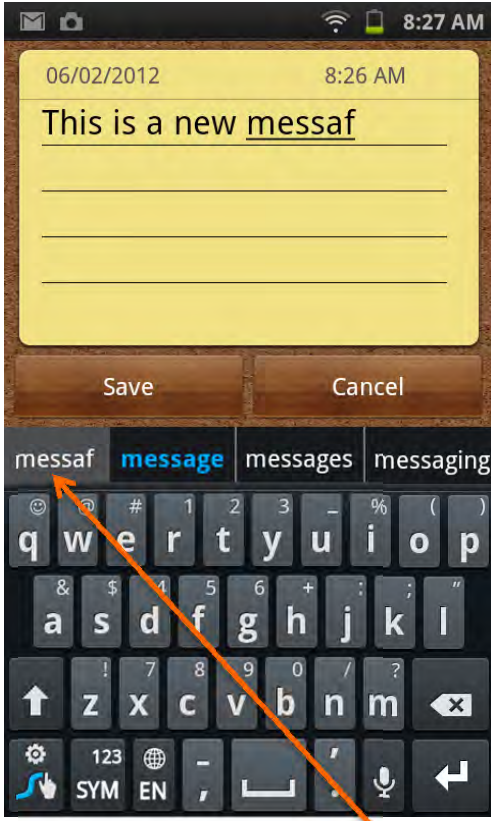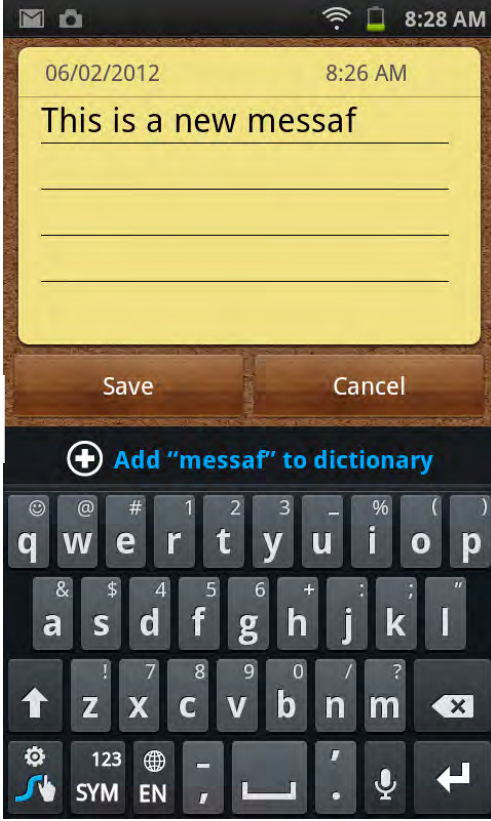| Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Player 5.0
the current character string in the first area is kept if the user performs a second gesture in the second area on the current character string or the portion thereof displayed in the second area.	If the user performs a second gesture 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. User selects "messaf" Other applications, such as the Email, Mini Diary, Talk, and Gmail applications, provide the same functionality.

8

EXHIBIT A10

GALAXY SII EPIC 4G TOUCH
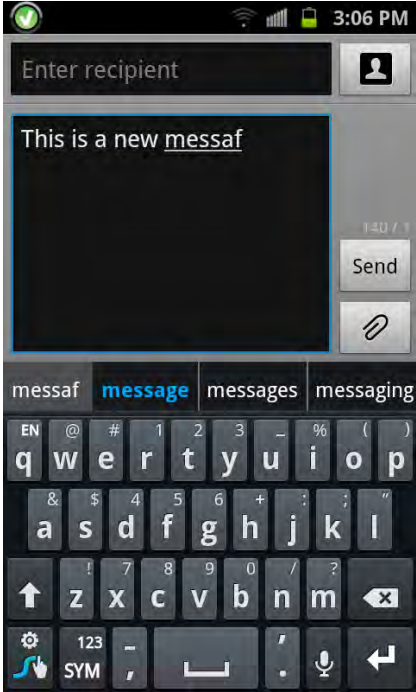
INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172
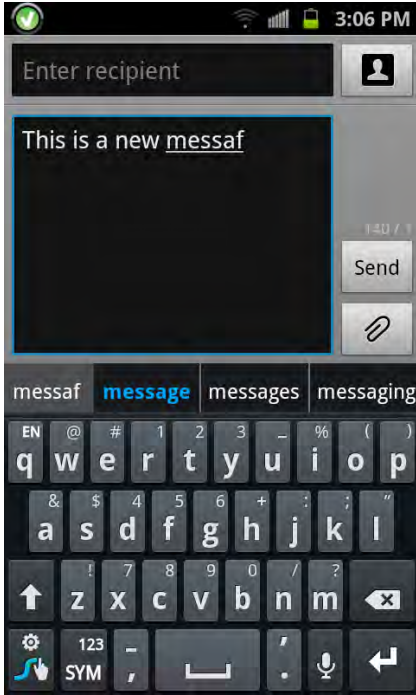
Infringement by Samsung Galaxy SII Epic 4G Touch of U.S. Patent No. 8,074,172
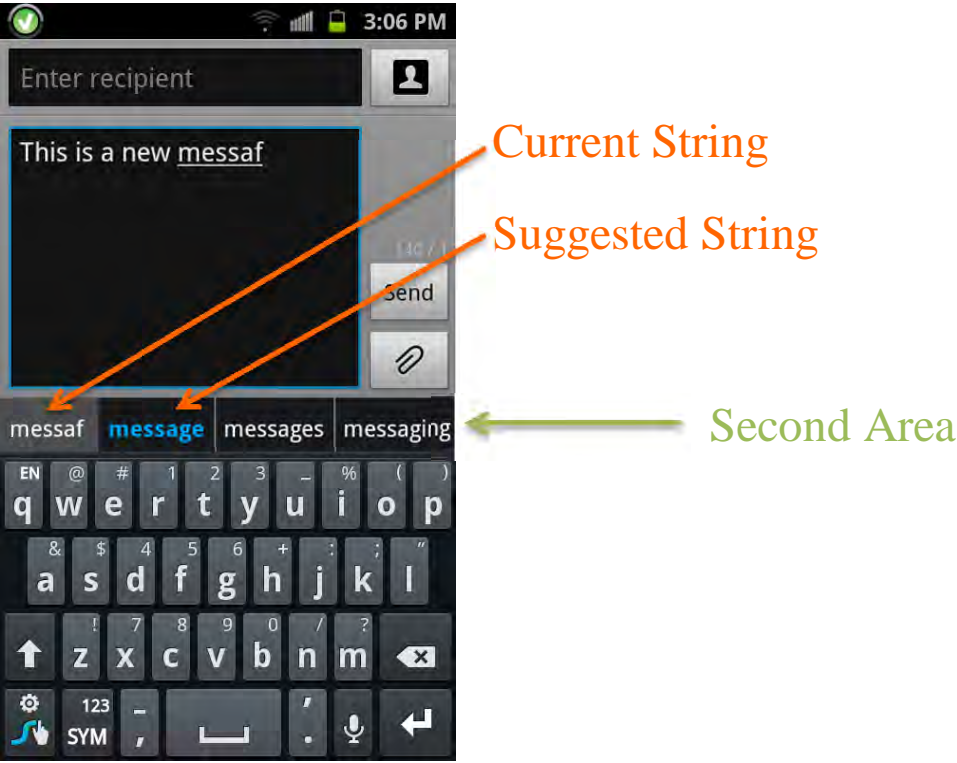
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy SII Epic 4G Touch
18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising[1]:	To the extent that the preamble may be construed to be limiting, the Samsung Galaxy SII Epic 4G Touch provides a graphical user interface on a portable electronic device, as evidenced by the presence of a CPU, memory devices, and a display device. The Samsung Galaxy SII Epic 4G Touch has a 1.2 GHz dual core processor. *See* Galaxy SII Epic 4G Touch, Specifications, *available at* http://www.samsung.com/us/mobile/cell-phones/SPH-D710ZKASPR-specs ("Specifications"). **CPU / Processor** Processor Speed, Type — 1.2 GHz, Dual Core (Samsung Exnyos C210) The Samsung Galaxy SII Epic 4G Touch also has memory as indicated in the Specifications and indicated below. *Id.* **Memory** Internal Memory — 16GB External Memory/microSD™ Capacity — 32GB
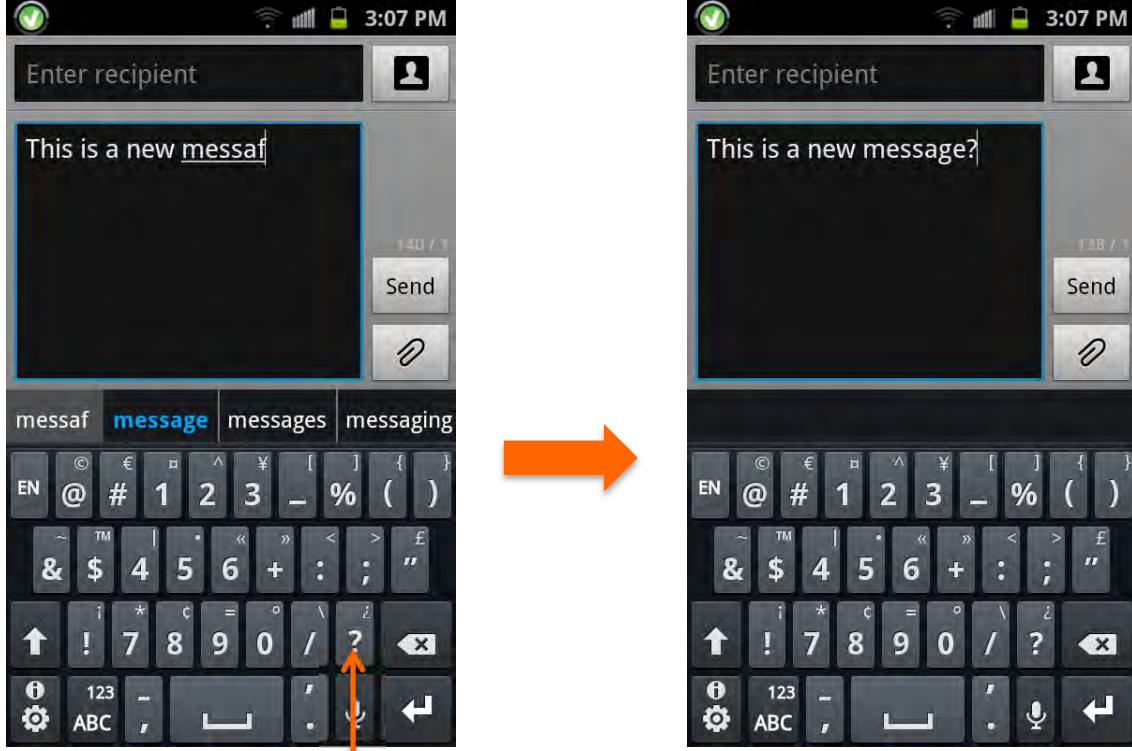
---

[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.

1
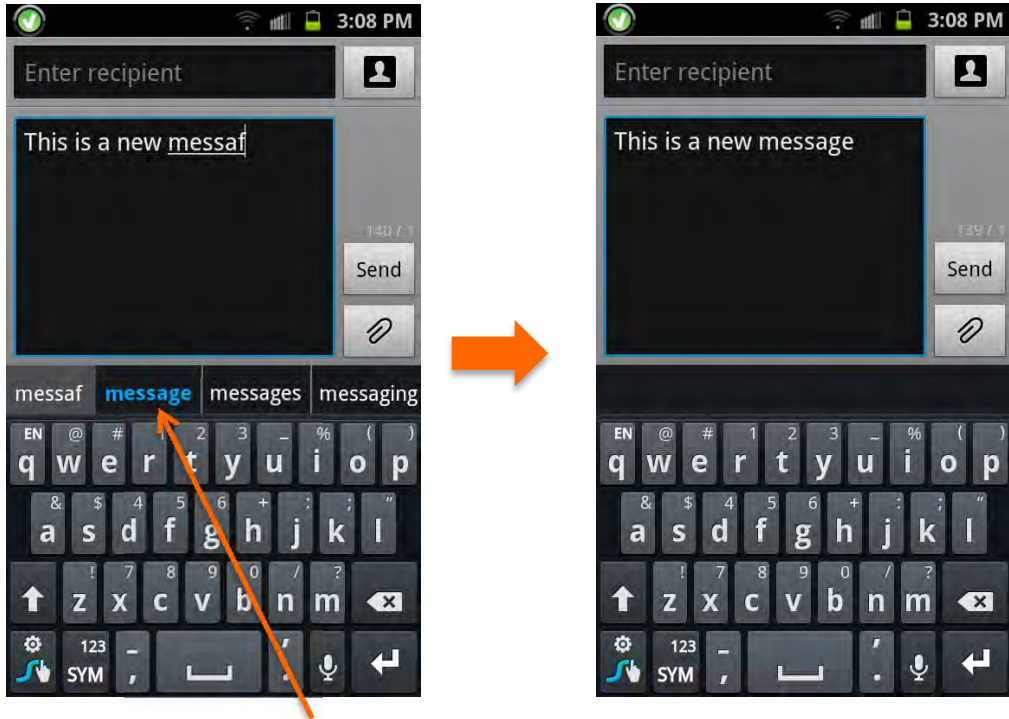
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy SII Epic 4G Touch
	As shown below and in the Specifications, the Samsung Galaxy SII Epic 4G Touch's CPU is coupled to a 4.52 inch, 800x480 pixel color Super AMOLED Plus touch screen display. *See id.* **Display** | Main Display Resolution	800x480 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
	The Samsung Galaxy SII Epic 4G Touch 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 Galaxy SII Epic 4G Touch
first area of the touch screen display that displays a current character string being input by a user with the keyboard;	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: Other applications, such as the Email, Talk, and Tasks applications, provide the same functionality.

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy SII Epic 4G Touch
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;	In a second area of the touch screen display, the current string and a suggested replacement string are displayed. The second area is located below the first area and separated by a gray border. Other applications, such as the Email, Talk, and Tasks applications, provide the same functionality.

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy SII Epic 4G Touch
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 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." User selects "?" Other applications, such as the Email, Talk, and Tasks applications, provide the same functionality.

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy SII Epic 4G Touch
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	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. User selects "message" Other applications, such as the Email, Talk, and Tasks applications, provide the same functionality.

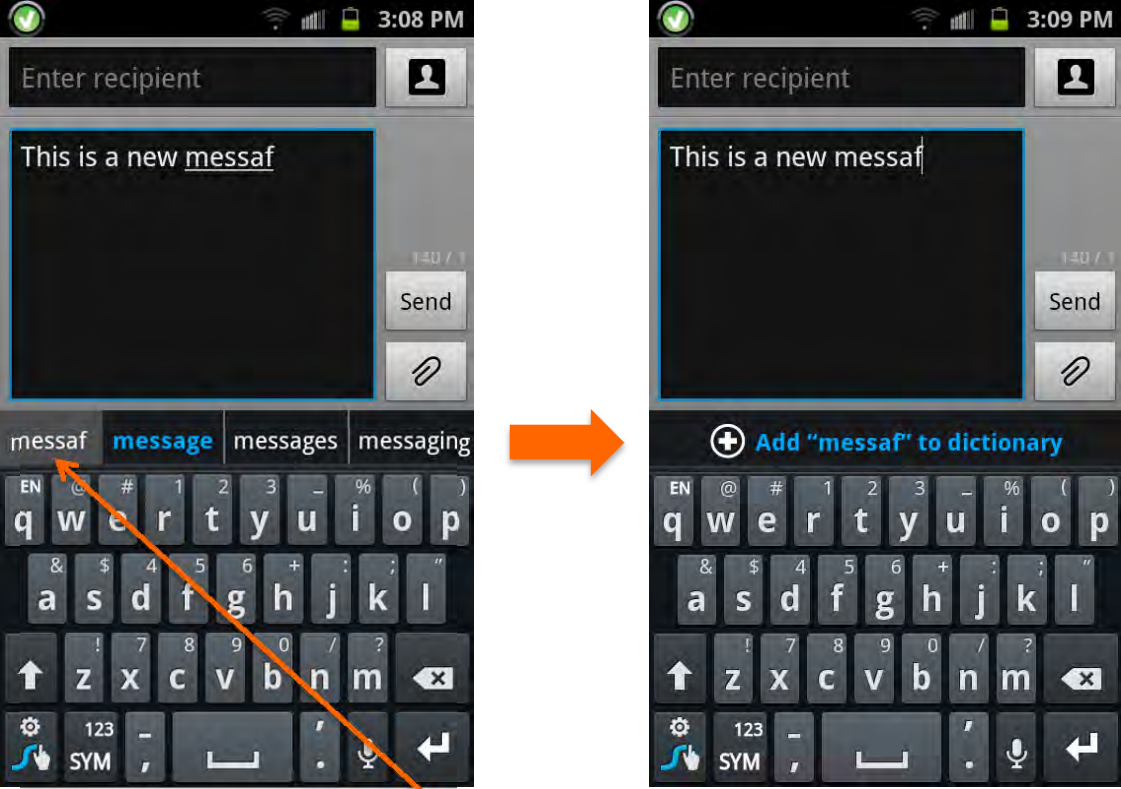| Claim 18 of the '172 Patent	Infringement by Samsung Galaxy SII Epic 4G Touch
the current character string in the first area is kept if the user performs a second gesture in the second area on the current character string or the portion thereof displayed in the second area.	If the user performs a second 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. User selects "messaf" Other applications, such as the Email, Talk, and Tasks applications, provide the same functionality.

EXHIBIT A11

GALAXY SII SKYROCKET
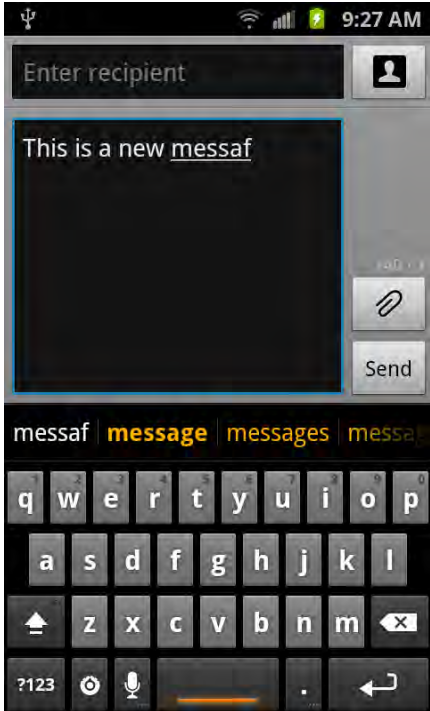
INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172
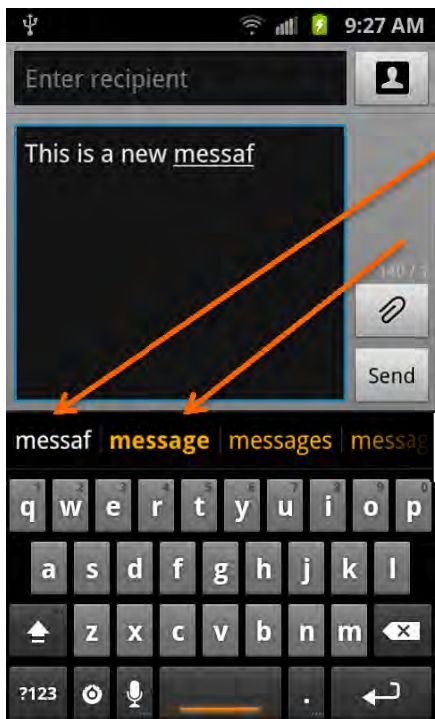
Infringement by Samsung Galaxy SII Skyrocket of U.S. Patent No. 8,074,172
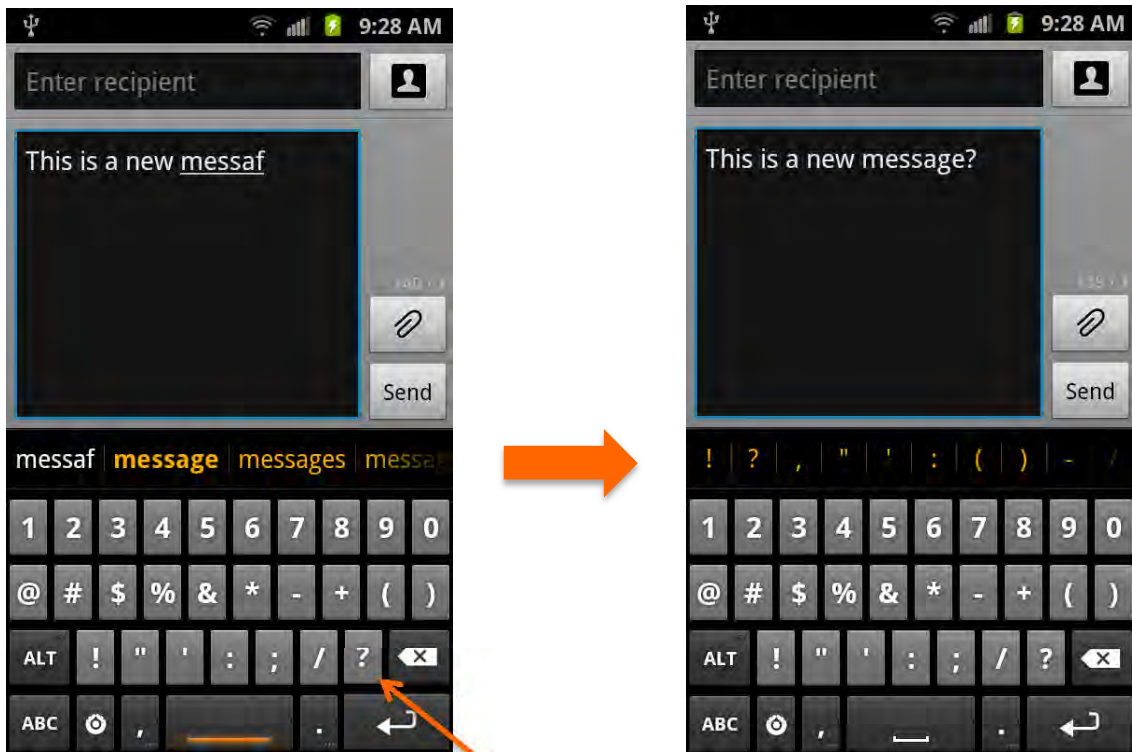
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy SII Skyrocket
18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising[1]:	To the extent that the preamble may be construed to be limiting, the Samsung Galaxy SII Skyrocket provides a graphical user interface on a portable electronic device, as evidenced by the presence of a CPU, memory devices, and a display device. The Samsung Galaxy SII Skyrocket has a 1.5 GHz dual core processor. *See* Galaxy SII Skyrocket, Specifications, *available at* http://www.samsung.com/us/mobile/cell-phones/SGH-I727MSAATT-specs ("Specifications"). **CPU** Processor Speed, Type — 1.5 GHz dual-core processor The Samsung Galaxy SII Skyrocket also has memory as indicated in the Specifications and indicated below. *Id.* **Memory** Internal Memory — 16GB
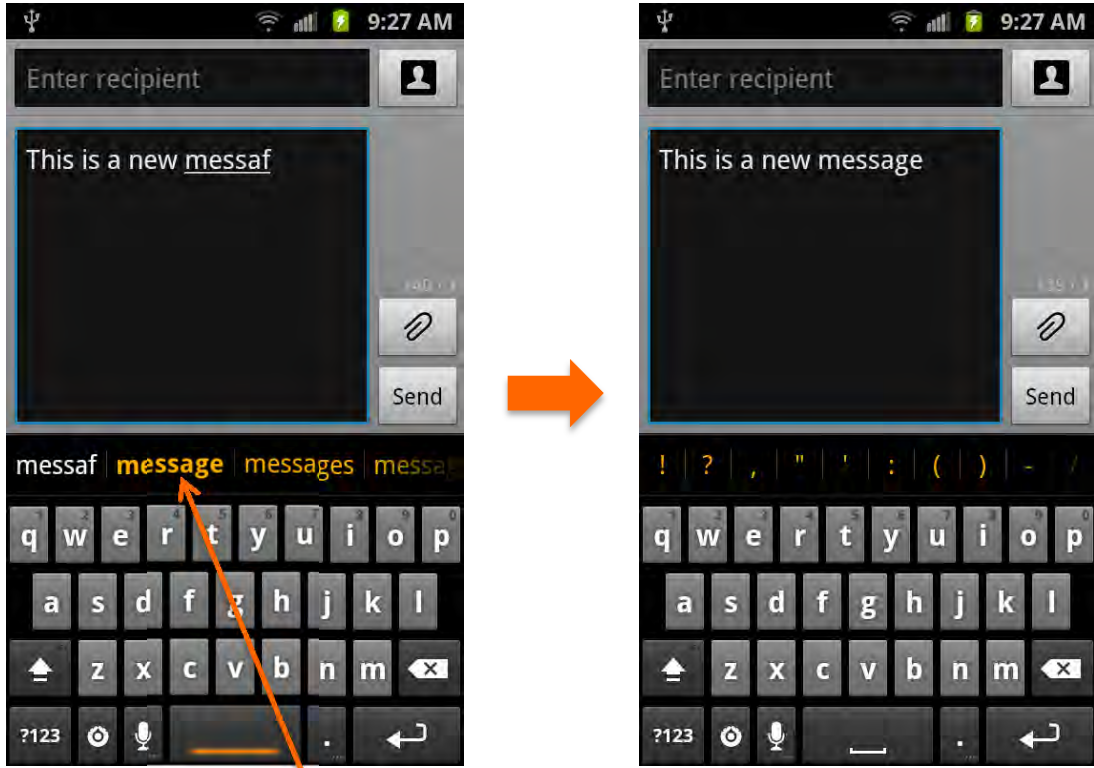
---

[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.

1

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy SII Skyrocket
	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. *See id.* The Samsung Galaxy SII Skyrocket provides a graphical user interface and a virtual keyboard on a touch screen, as shown below::

2

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy SII Skyrocket
first area of the touch screen display that displays a current character string being input by a user with the keyboard;	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 the 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: Other applications, such as the Email, Memo, Gmail, Talk, Mini Diary, and Task applications, provide the same functionality.

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy SII Skyrocket
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;	In a second area of the touch screen display, the current string and a suggested replacement string are displayed. Current String Suggested String Second Area The second area is located below the first area and separated by a gray border. Other applications, such as the Email, Memo, Gmail, Talk, Mini Diary, and Task applications, provide the same functionality.

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy SII Skyrocket
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 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."

User selects "?"

Other applications, such as the Email, Memo, Gmail, Talk, Mini Diary, and Task applications, provide the same functionality.

5

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy SII Skyrocket
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	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. User selects "message" Other applications, such as the Email, Memo, Gmail, Talk, Mini Diary, and Task applications, provide the same functionality.

6

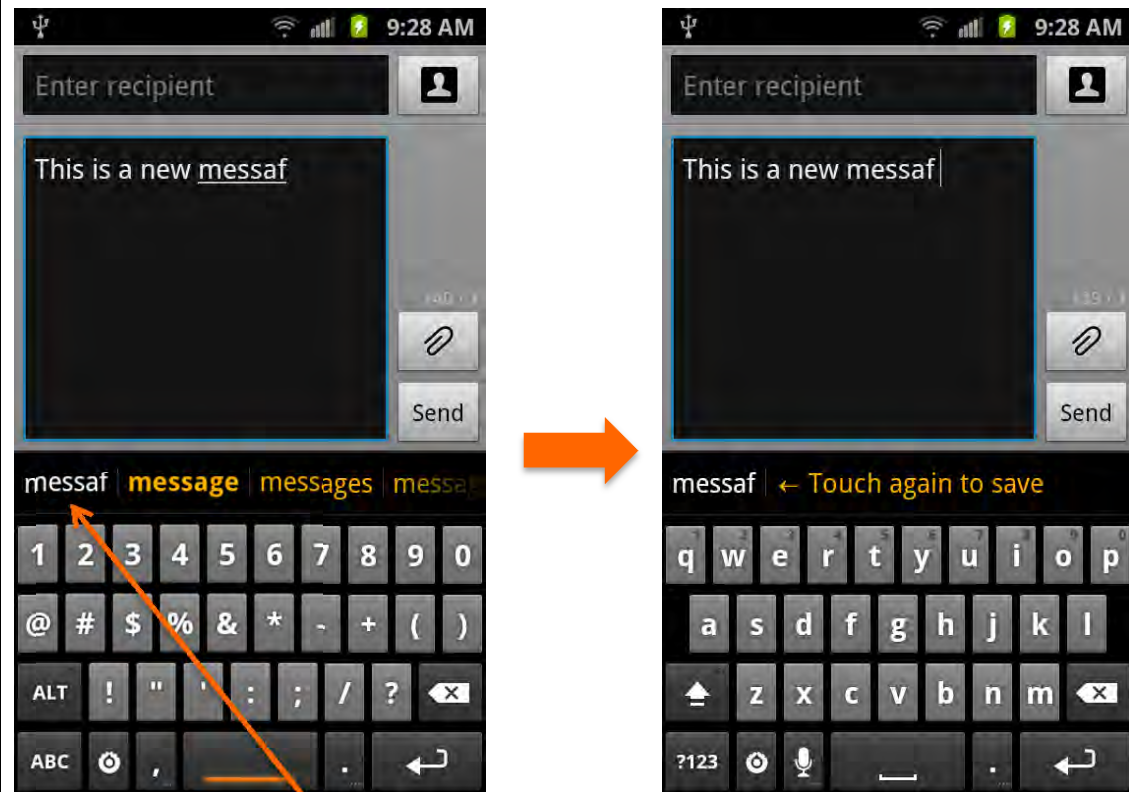| Claim 18 of the '172 Patent	Infringement by Samsung Galaxy SII Skyrocket
the current character string in the first area is kept if the user performs a second gesture in the second area on the current character string or the portion thereof displayed in the second area.	If the user performs a second 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. User selects "messaf" Other applications, such as the Email, Memo, Gmail, Talk, Mini Diary, and Task applications, provide the same functionality.

7

EXHIBIT A12

STRATOSPHERE
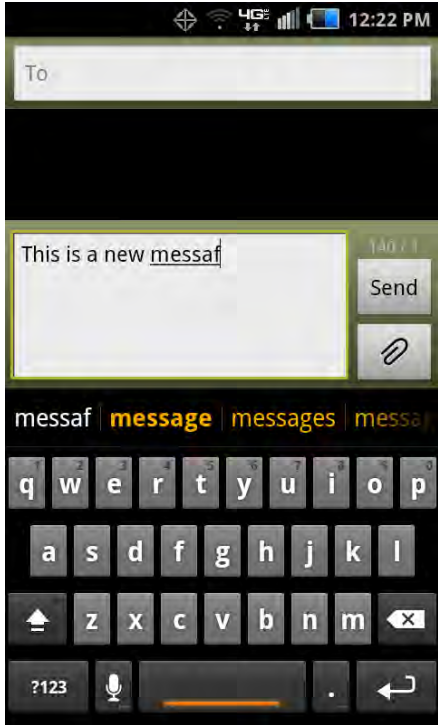
INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172
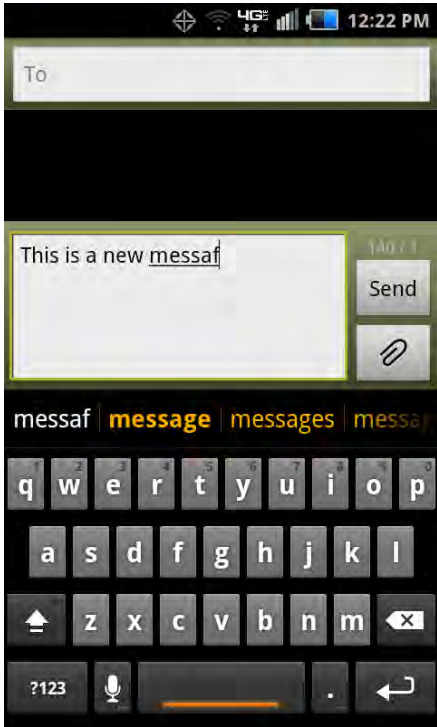
Infringement by Samsung Stratosphere of U.S. Patent No. 8,074,172
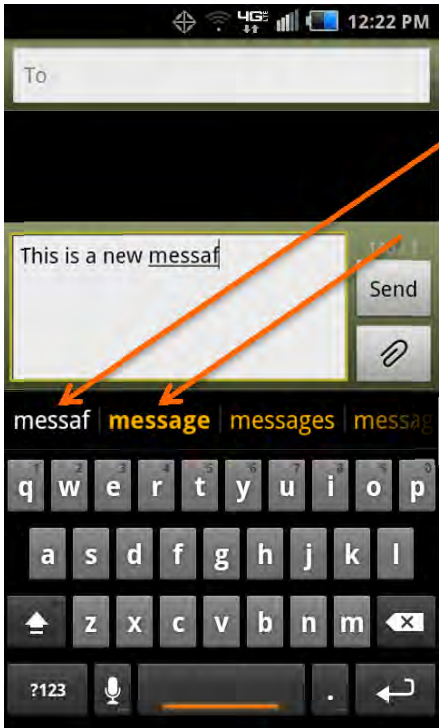
Claim 18 of the '172 Patent	Infringement by Samsung Stratosphere
18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising[1]:	To the extent that the preamble may be construed to be limiting, the Samsung Stratosphere provides a graphical user interface on a portable electronic device, as evidenced by the presence of a CPU, memory devices, and a display device. The Samsung Stratosphere has a 1 GHz processor. *See* Stratosphere, Specifications, *available at* http://www.samsung.com/us/mobile/cell-phones/SCH-I405ZWBVZW-specs ("Specifications"). **CPU** Processor Speed, Type — VIA CBP7.1 + CMC220(LTE) + AP (S5PC111, 1GHz) The Samsung Stratosphere also has memory as indicated in the Specifications and indicated below. *Id.* **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.
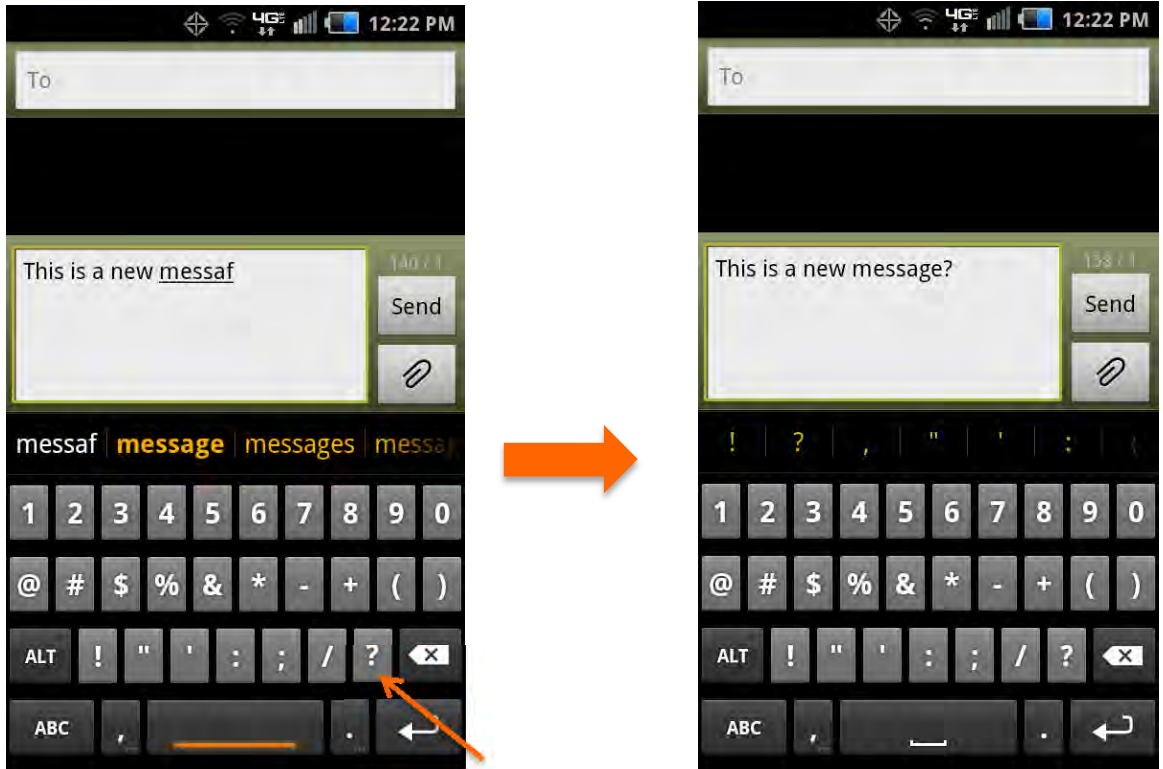
Claim 18 of the '172 Patent	Infringement by Samsung Stratosphere
	As shown below and in the Specifications, the Samsung Stratosphere's CPU is coupled to a 4.0 inch, 800x480 pixel color Super AMOLED touch screen display. *See id.*

Display

Main Display Resolution	800x480 Pixel
Main Display Size	4.0"
Main Display Technology	Super AMOLED
Touch Screen	Yes

2
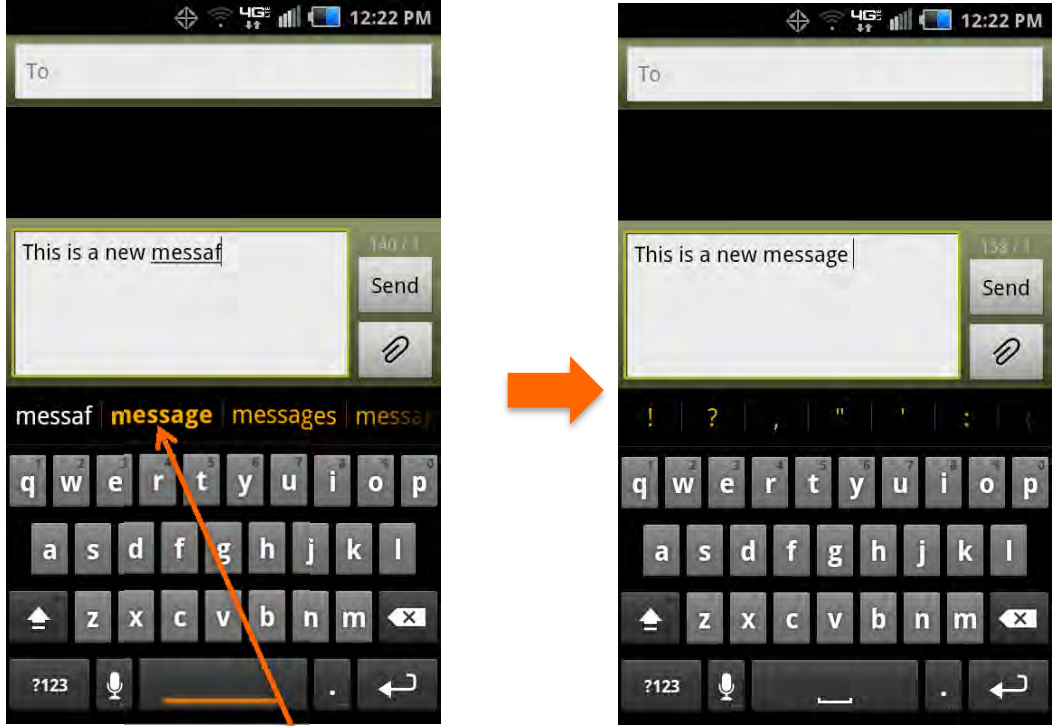
Claim 18 of the '172 Patent	Infringement by Samsung Stratosphere
	For further example, the Samsung Stratosphere provides a graphical user interface and a virtual keyboard on a touch screen, as shown below:

Claim 18 of the '172 Patent	Infringement by Samsung Stratosphere
first area of the touch screen display that displays a current character string being input by a user with the keyboard;	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: Other applications, such as the Email, Gmail, Memo, and Talk applications, provide the same functionality.

Claim 18 of the '172 Patent	Infringement by Samsung Stratosphere
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;	In a second area of the touch screen display, the current string and a suggested replacement string are displayed. The second area is located below the first area and separated by a dark green border. Other applications, such as the Email, Gmail, Memo, and Talk applications, provide the same functionality.

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
	User selects "?" Other applications, such as the Email, Gmail, Memo, and Talk applications, provide the same functionality.
the current character string in the first area with the suggested replacement	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.

7

Claim 18 of the '172 Patent	Infringement by Samsung Stratosphere
character string if the user performs a first gesture on the suggested replacement character string displayed in the second area; and	User selects "message" Other applications, such as the Email, Gmail, Memo, and Talk applications, provide the same functionality.
the current character string in the first area is kept if the user	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.
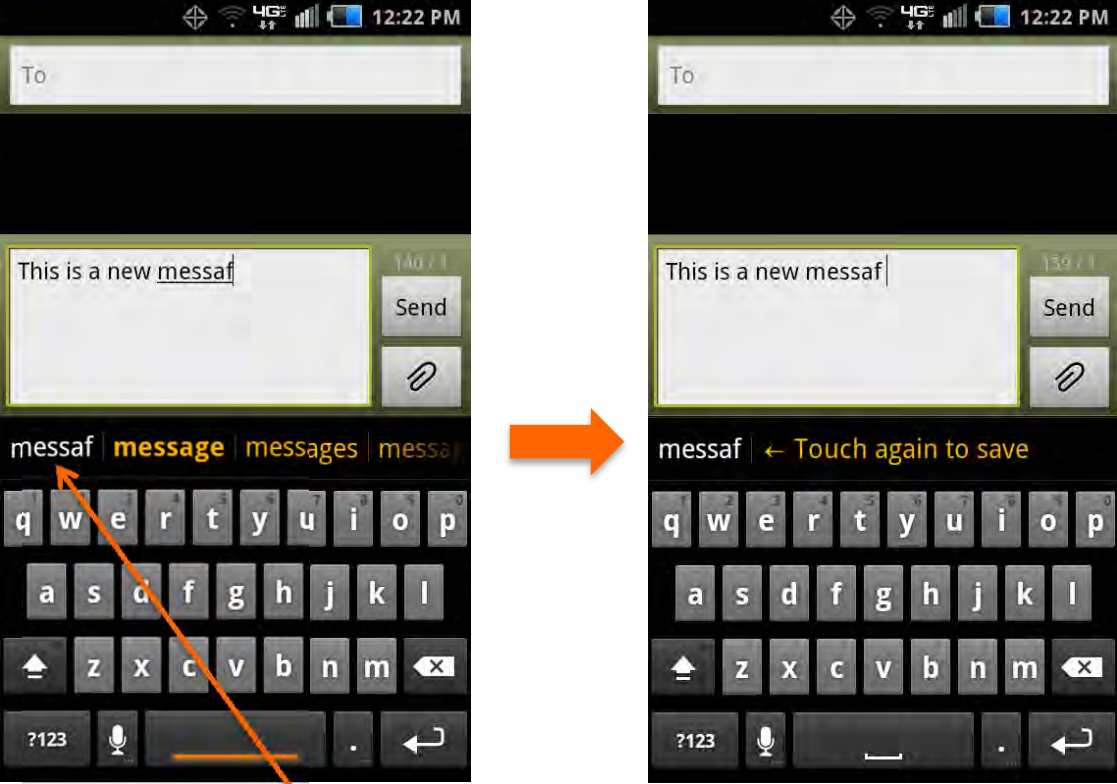
Claim 18 of the '172 Patent	Infringement by Samsung Stratosphere
performs a second gesture in the second area on the current character string or the portion thereof displayed in the second area.	User selects "messaf" Other applications, such as the Email, Gmail, Memo, and Talk applications, provide the same functionality.

9

EXHIBIT A13

GALAXY TAB 7.0 PLUS
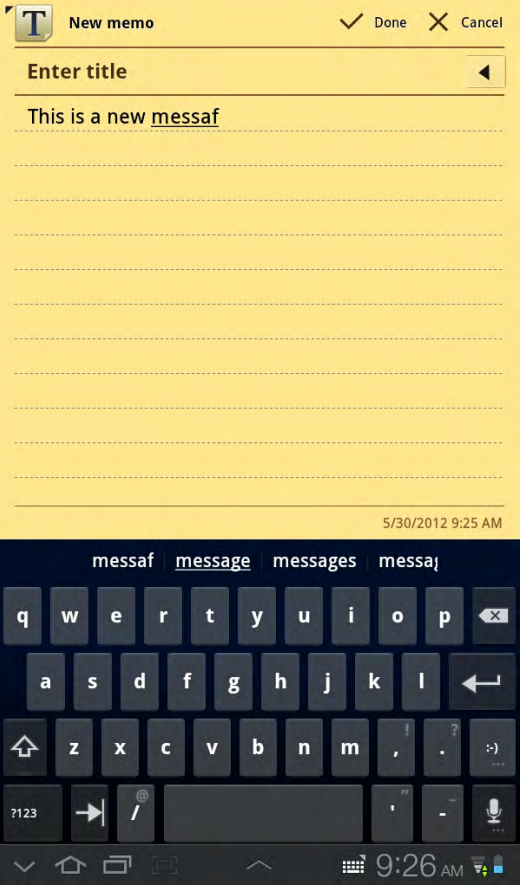
INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172
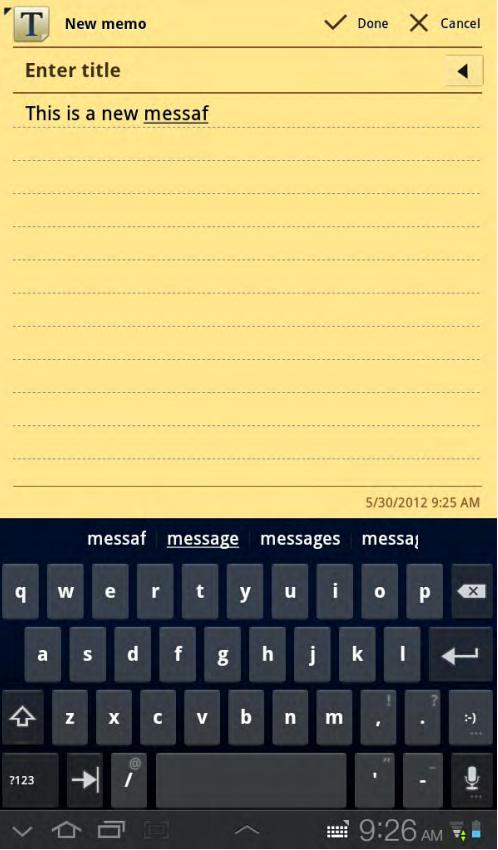
Infringement by Samsung Galaxy Tab 7.0 Plus of U.S. Patent No. 8,074,172
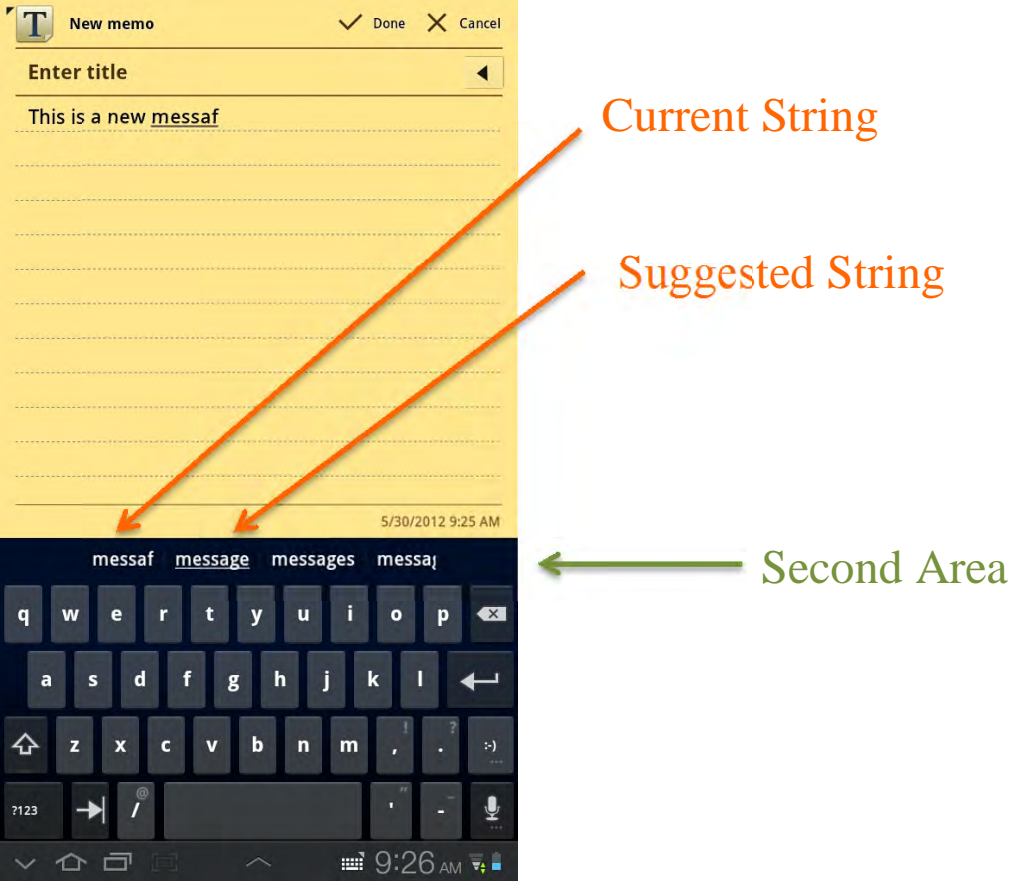
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 7.0 Plus
18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising[1]:	To the extent that the preamble may be construed to be limiting, the Samsung Galaxy Tab 7.0 Plus provides a graphical user interface on a portable electronic device, as evidenced by the presence of a CPU, memory devices, and a display device. The Samsung Galaxy Tab 7.0 Plus has a dual core 1.2 GHz processor. *See* Galaxy Tab 7.0 Plus Features, *available at* http://www.samsung.com/us/mobile/galaxy-tab/GT-P6210MAYXAR-features ("Features"). The Samsung Galaxy Tab 7.0 Plus also has memory as indicated in the Features and below. *Id.* **Memory** " Internal Memory 16GB " micro SD card slot supports up to 32GB 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. (*See id.*):
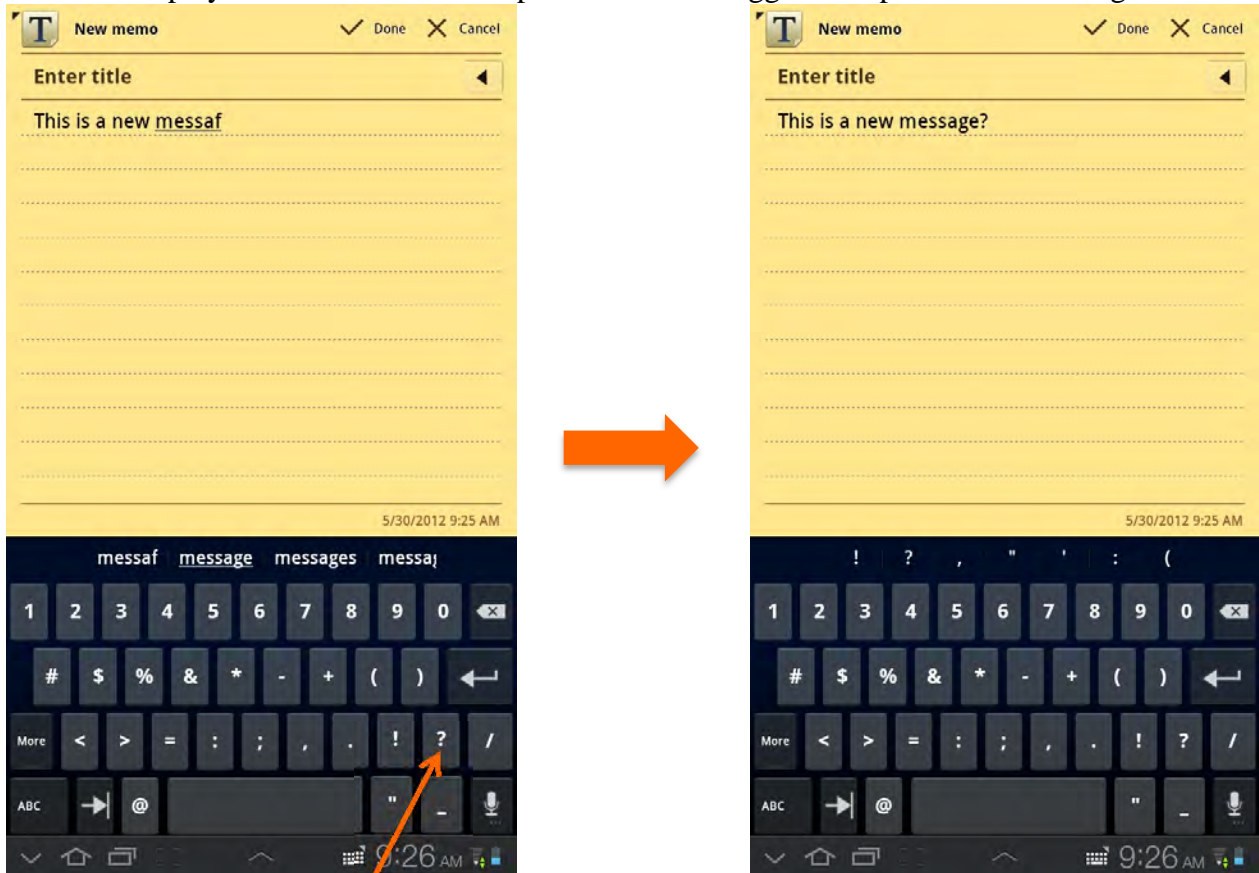
---

[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.
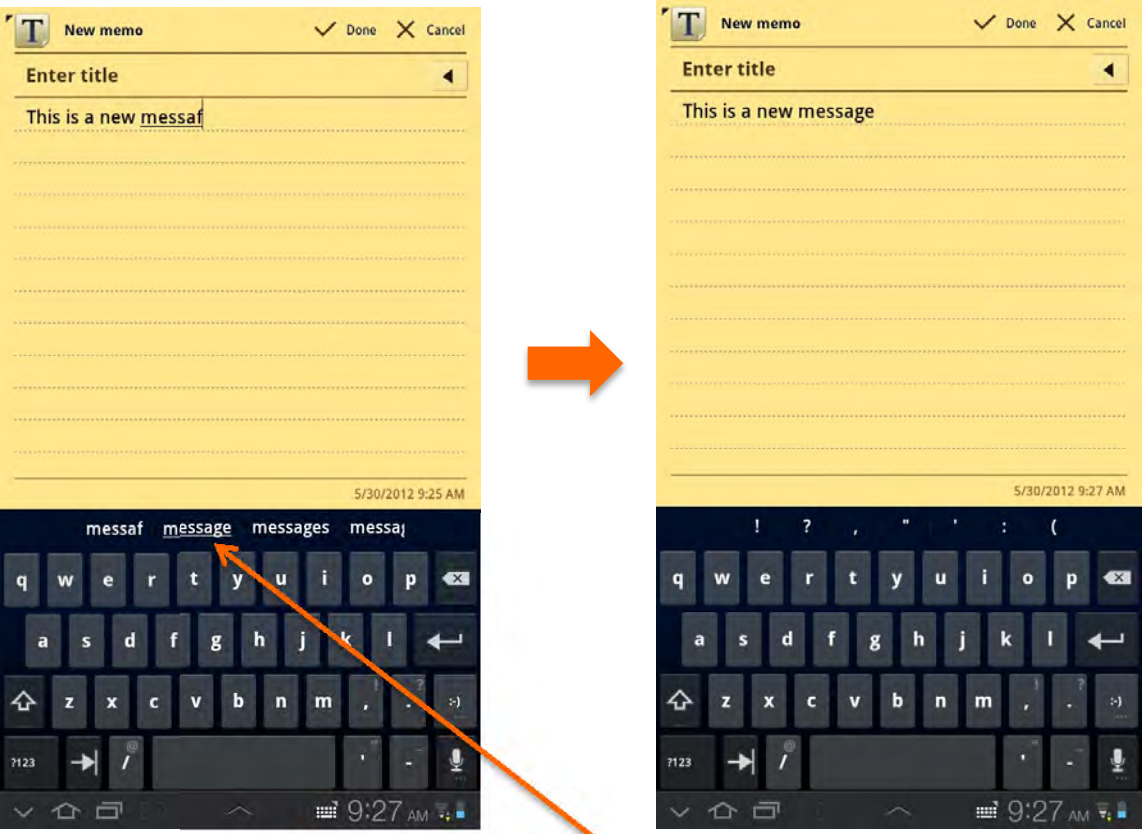
Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 7.0 Plus
	Display ▪ 7" Display ▪ 1024 x 600 Pixel ▪ TFT The Samsung Galaxy Tab 7.0 Plus provides a graphical user interface and a virtual keyboard on a touch screen, as shown below::

2

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 7.0 Plus
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

3

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 7.0 Plus
display that displays a current character string being input by a user with the keyboard;	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: Other applications, such as the Email, Gmail, Pen Memo, and Talk applications, provide the same functionality.
in a second area of the touch	In a second area of the touch screen display, the current string and a suggested replacement string are displayed.

4

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 7.0 Plus
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;	 The second area is located below the first area and is differentiated by the black background, which is shared with the keyboard. Other applications, such as the Email, Gmail, Pen Memo, and Talk applications, provide the same functionality.
wherein; the	The Samsung Galaxy Tab 7.0 Plus replaces the current character string in the first area with the suggested

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 7.0 Plus
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;	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." User selects "?" Other applications, such as the Email, Gmail, Pen Memo, and Talk applications, provide the same functionality.

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 7.0 Plus
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	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. User selects "message" Other applications, such as the Email, Gmail, Pen Memo, and Talk applications, provide the same functionality.

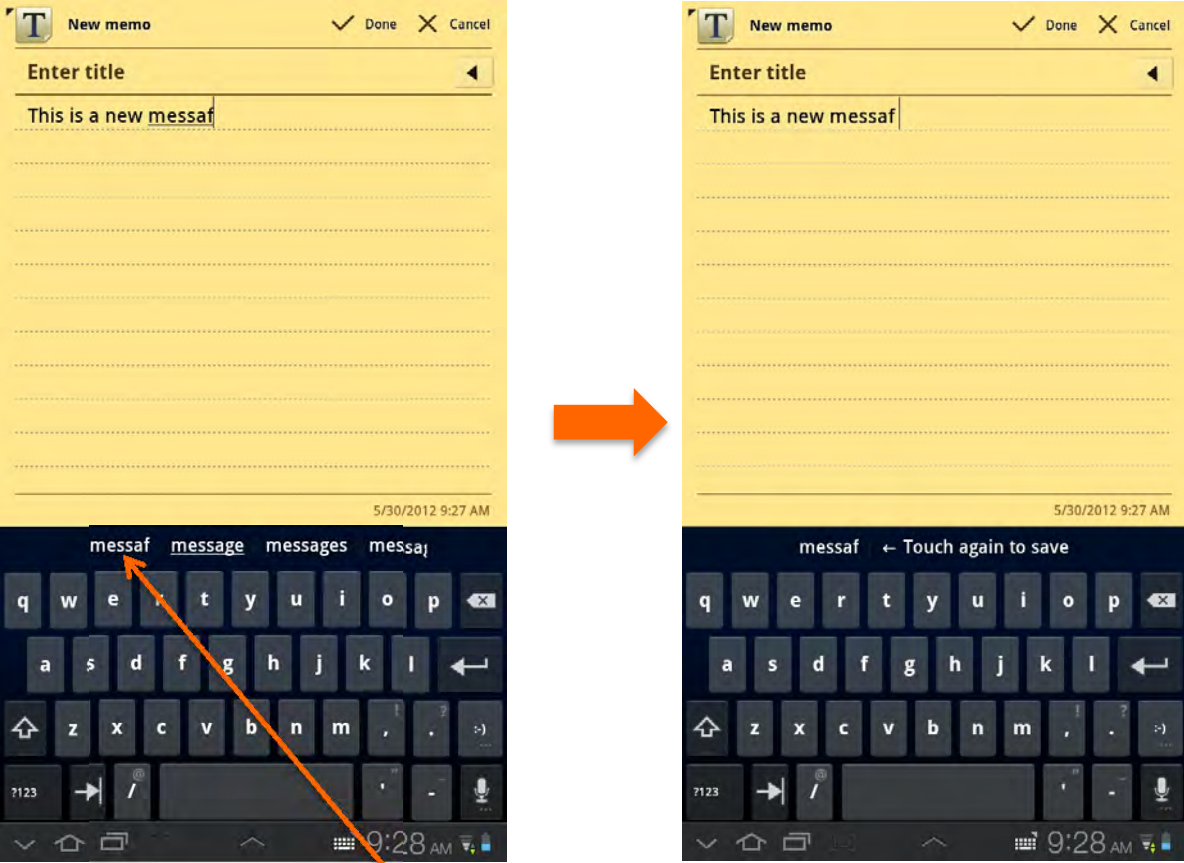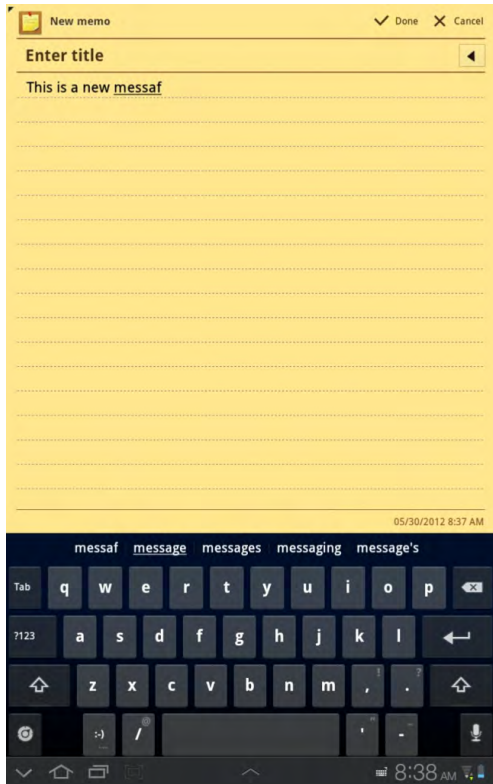| Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 7.0 Plus
the current character string in the first area is kept if the user performs a second gesture in the second area on the current character string or the portion thereof displayed in the second area.	If the user performs a second 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. User selects "messaf" Other applications, such as the Email, Gmail, Pen Memo, and Talk applications, provide the same functionality.

8

EXHIBIT A14

GALAXY TAB 8.9
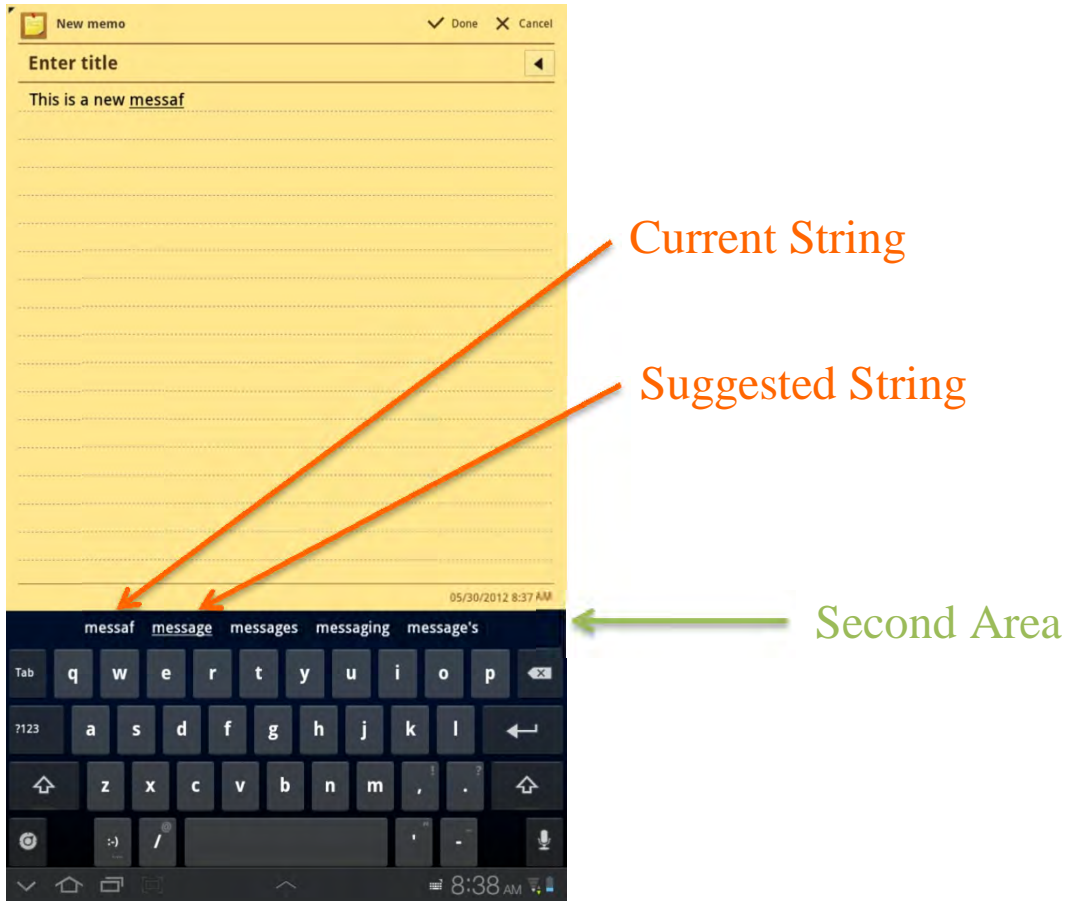
INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172

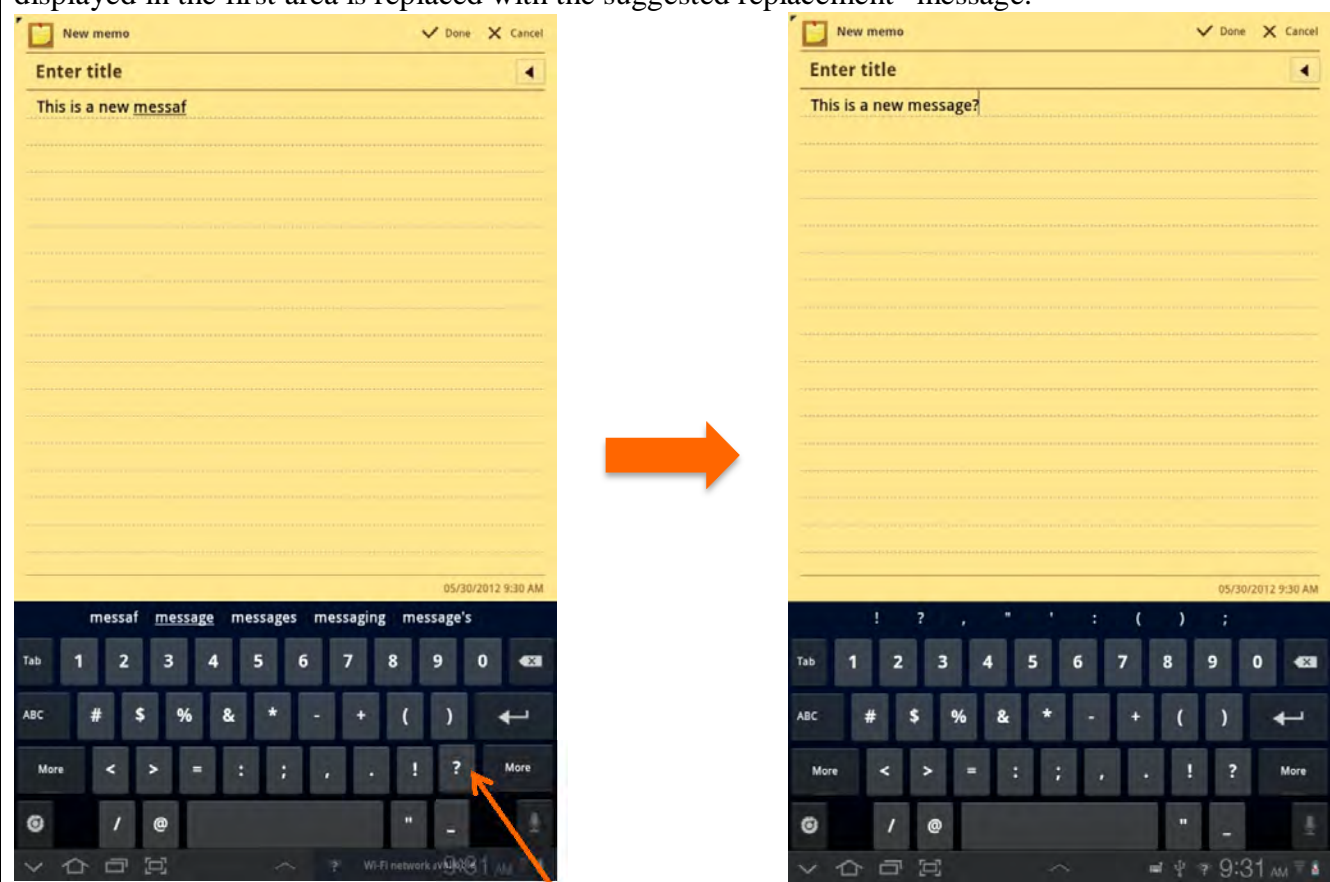**Infringement by Samsung Galaxy Tab 8.9 of U.S. Patent No. 8,074,172**

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 8.9
18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising[1]:	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.
	The Samsung Galaxy Tab 8.9 has a dual core 1 GHz processor. *See* Galaxy Tab 8.9 Features, *available at* http://www.samsung.com/us/mobile/galaxy-tab/GT-P7310MAAXAR-features ("Features").
	The Samsung Galaxy Tab 8.9 also has memory as indicated in the Features and below. *Id.*
	Memory " 16GB Internal Memory
	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. *See id.*
	Display " 8.9" WXGA (1280x800) TFT (PLS)
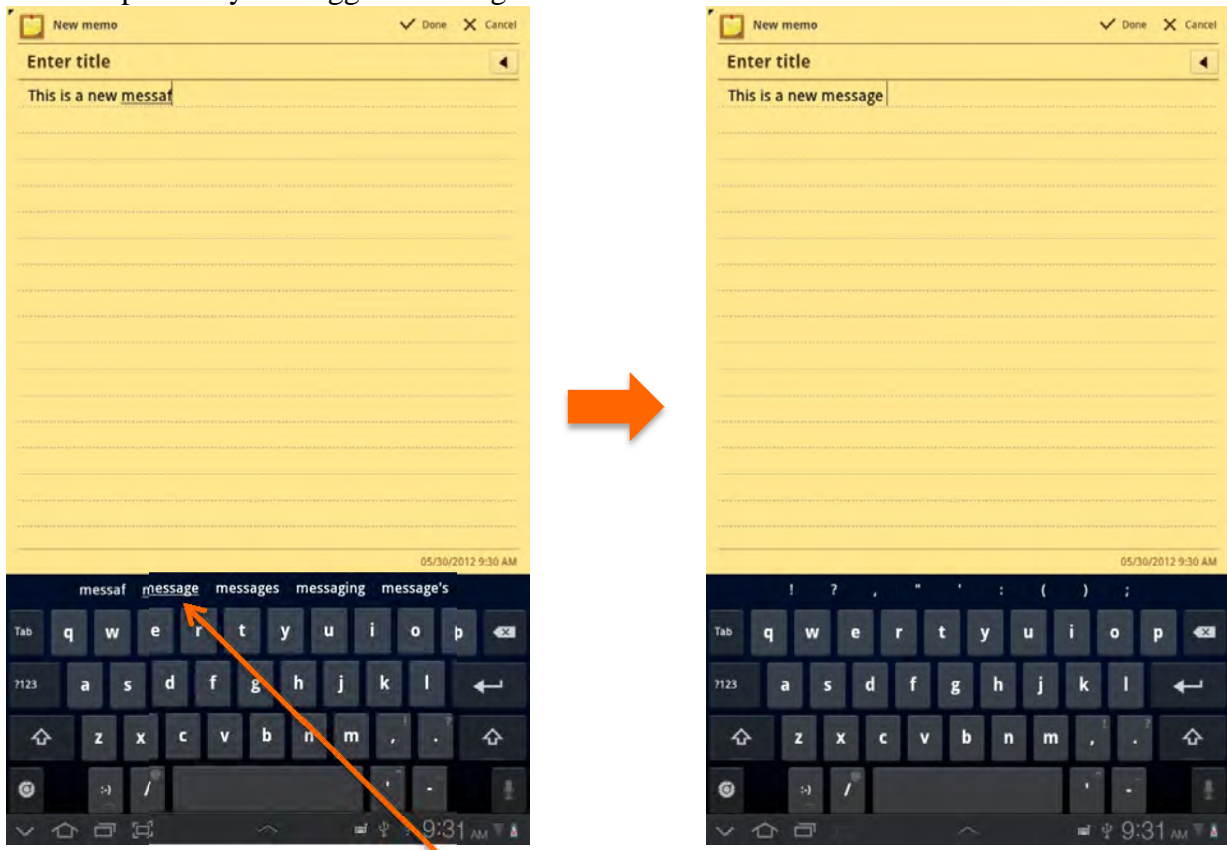
---

[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
	The Samsung Galaxy Tab 8.9 provides a graphical user interface and a virtual keyboard on a touch screen, as shown below:

2

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 8.9
first area of the touch screen display that displays a current character string being input by a user with the keyboard;	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:

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 8.9
	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 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;	In a second area of the touch screen display, the current string and a suggested replacement string are displayed. The second area is located below the first area and is differentiated by the black background, which is shared with the keyboard.

4

Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 8.9
	Other applications, such as the Email, Gmail, Pen Memo, and Talk applications, provide the same functionality.
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 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." User selects "?"

5

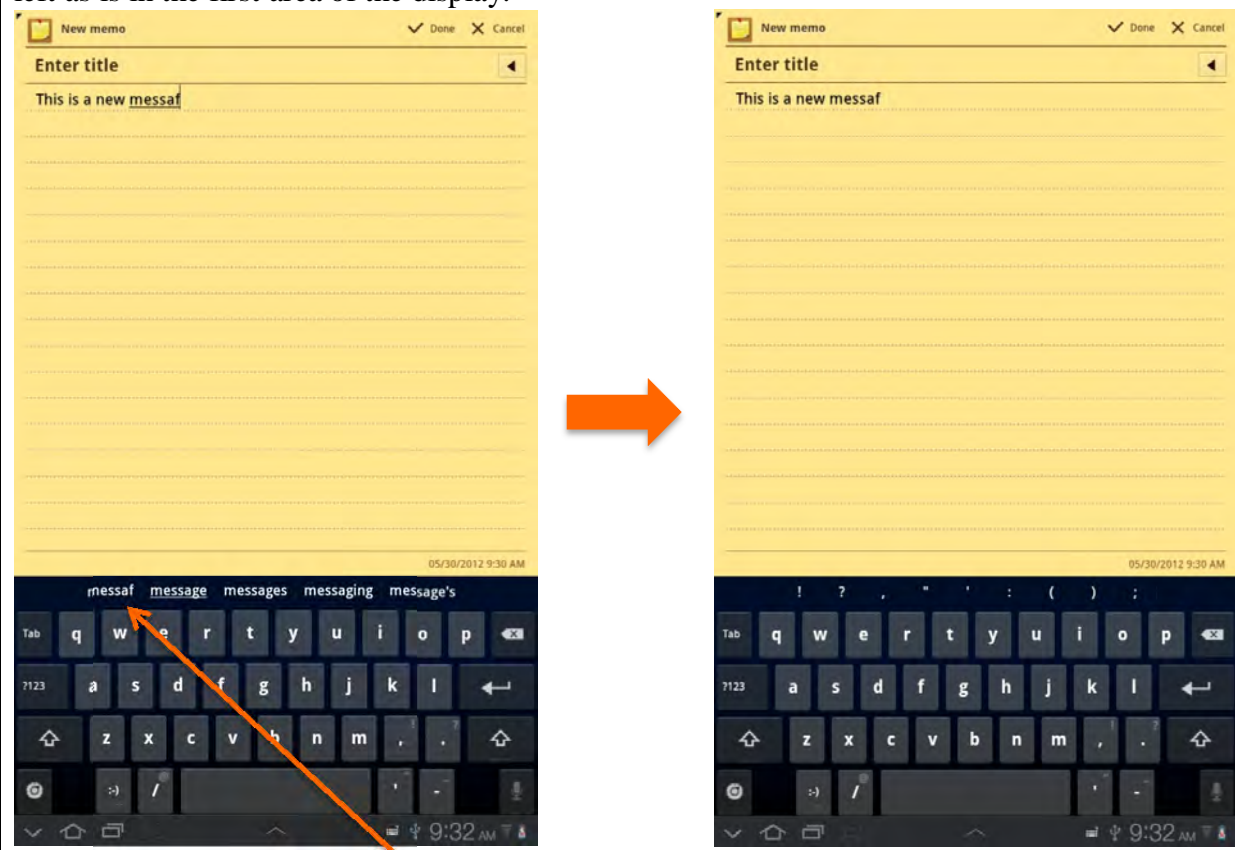| Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 8.9
	Other applications, such as the Email, Gmail, Pen Memo, and Talk applications, provide the same functionality.
the current character string in the first area with the suggested replacement character string if the user performs a first gesture on the suggested replacement character string displayed in the second area; and	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. User selects "message"

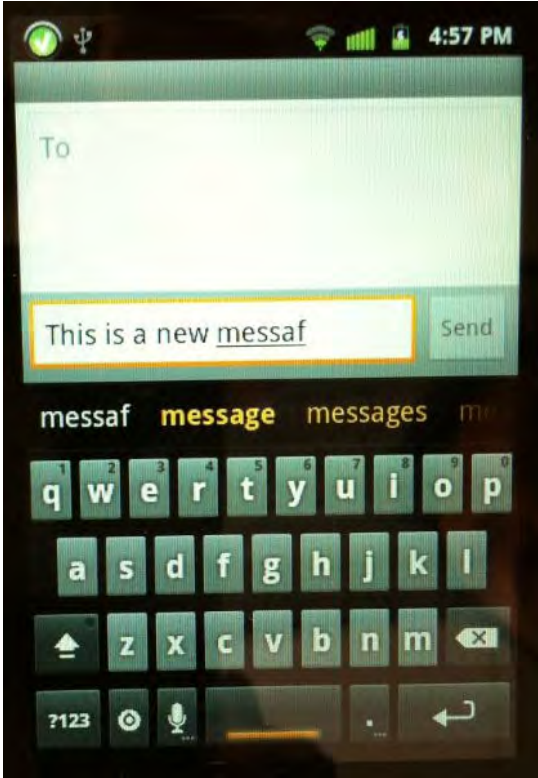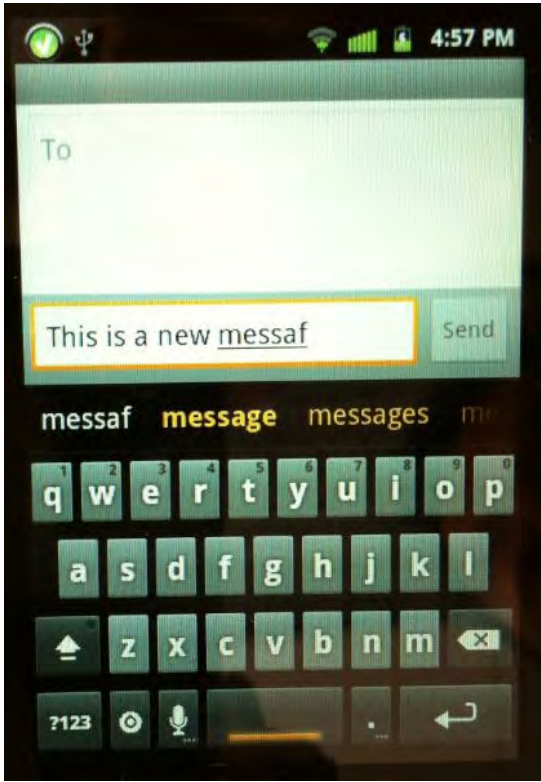| Claim 18 of the '172 Patent	Infringement by Samsung Galaxy Tab 8.9
	Other applications, such as the Email, Gmail, Pen Memo, and Talk applications, provide the same functionality.
the current character string in the first area is kept if the user performs a second gesture in the second area on the current character string or the portion thereof displayed in the second area.	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. User selects "messaf" Other applications, such as the Email, Gmail, Pen Memo, and Talk applications, provide the same functionality.

EXHIBIT A15

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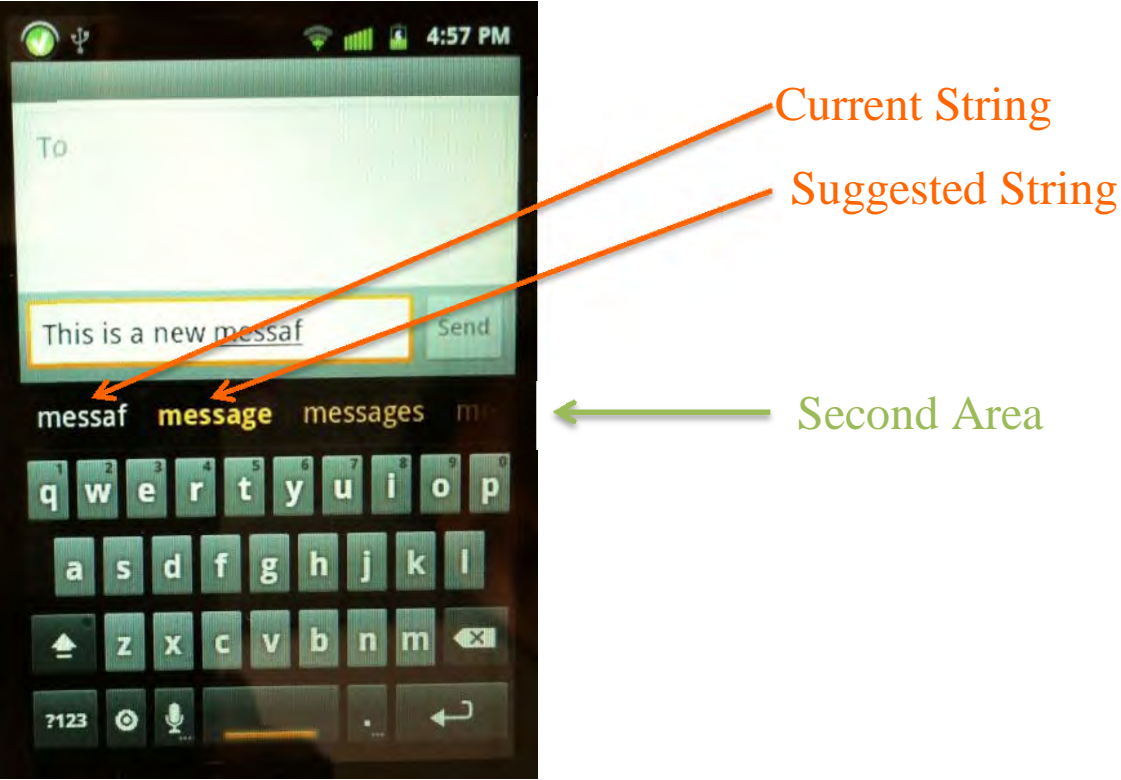
INFRINGEMENT CLAIM CHART FOR U.S. PATENT NO. 8,074,172

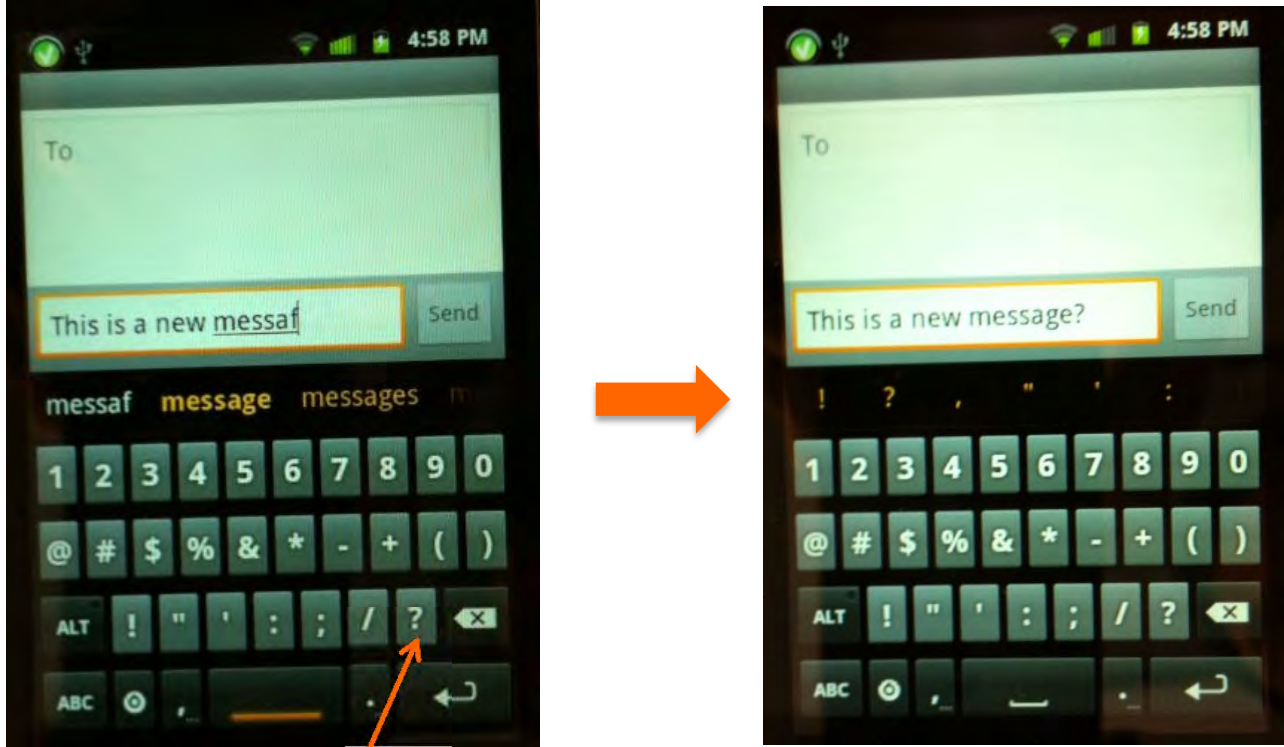**Infringement by Samsung Transform Ultra of U.S. Patent No. 8,074,172**

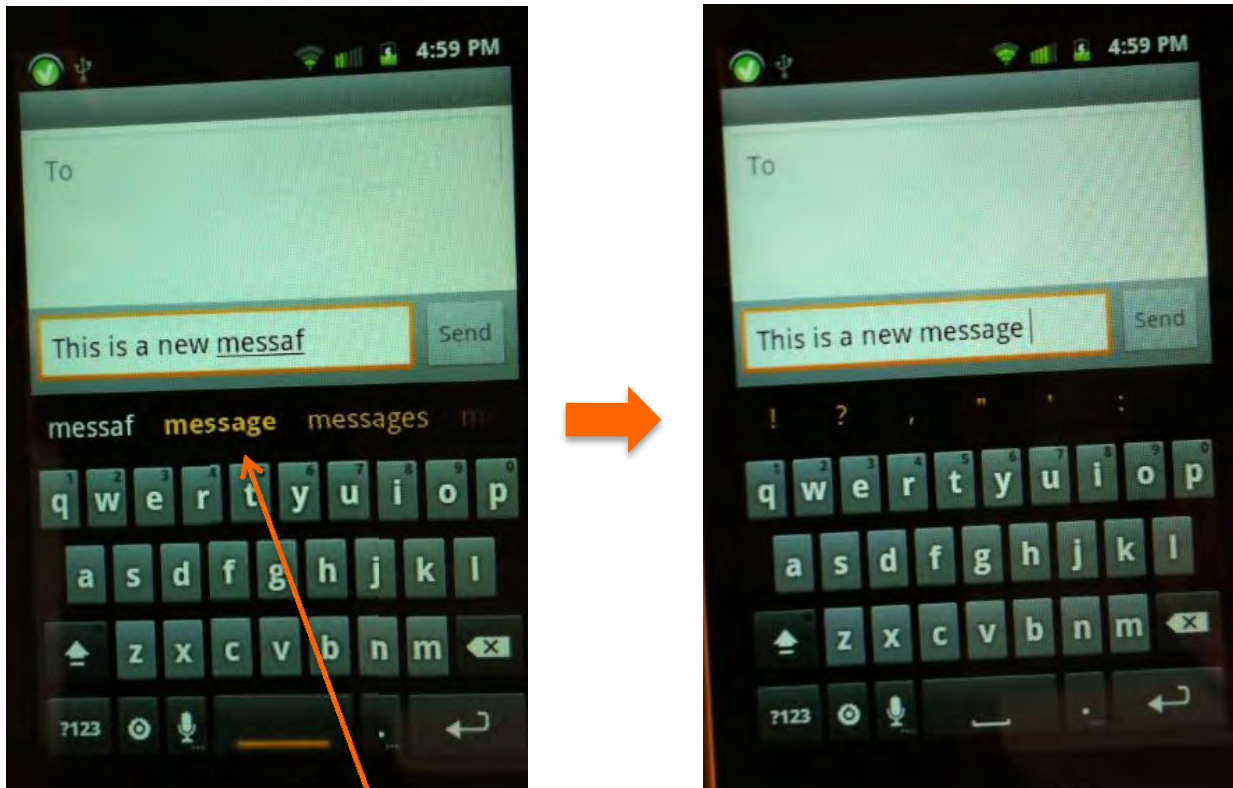| Claim 18 of the '172 Patent	Infringement by Samsung Transform Ultra
18. A graphical user interface on a portable electronic device with a keyboard and a touch screen comprising[1]:	To the extent that the preamble may be construed to be limiting, the Samsung Transform Ultra provides a graphical user interface on a portable electronic device, as evidenced by the presence of a CPU, an operating system, and a display device. The Samsung Transform Ultra has a 1 GHz processor. *See* Transform Ultra, Features, *available at* http://www.samsung.com/us/mobile/cell-phones/SPH-M930ZKASPR-features ("Features")) The Samsung Transform Ultra runs on Android operating system. *Id.* The Samsung Transform Ultra also includes a 3.5" HVGA touchscreen. *Id.*

---

[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.
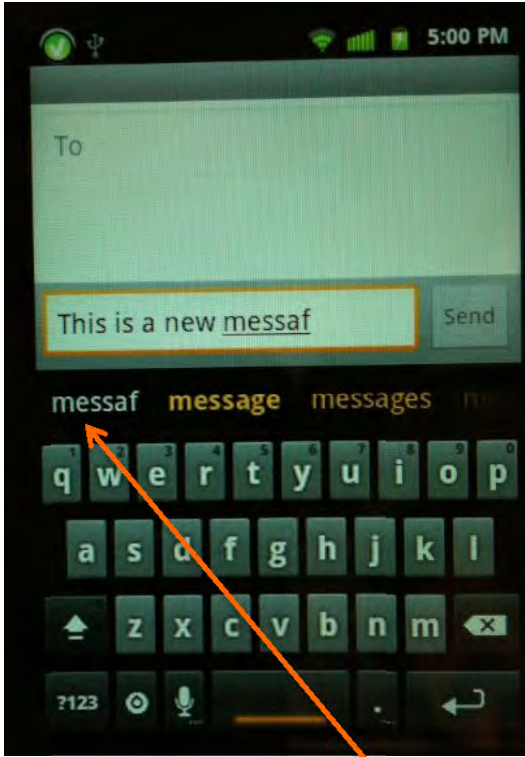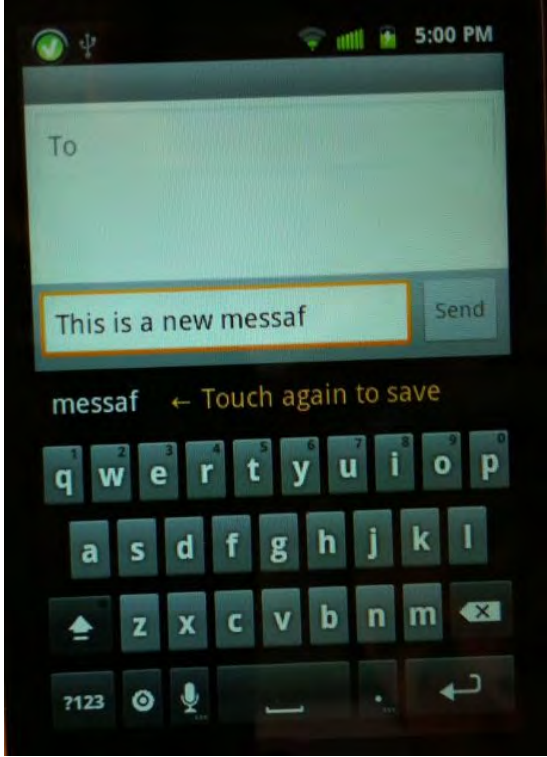
1

Claim 18 of the '172 Patent	Infringement by Samsung Transform Ultra
	The Samsung Transform Ultra 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 Transform Ultra
first area of the touch screen display that displays a current character string being input by a user with the keyboard;	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: Other applications, such as the Email, Gmail, and Talk applications, provide the same functionality.

3

Claim 18 of the '172 Patent	Infringement by Samsung Transform Ultra
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;	In a second area of the touch screen display, the current string and a suggested replacement string are displayed. The second area is located below the first area and separated by a gray border. Other applications, such as the Email, Gmail, and Talk applications, provide the same functionality.

Claim 18 of the '172 Patent	Infringement by Samsung Transform Ultra
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 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." User selects "?"

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	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.

6

Claim 18 of the '172 Patent	Infringement by Samsung Transform Ultra
	User selects "message" Other applications, such as the Email, Gmail, and Talk applications, provide the same functionality.
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.	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. **User selects "messaf"** Other applications, such as the Email, Gmail, and Talk applications, provide the same functionality.