

Patents Form No.1 PATENTS ACT 1983 REQUEST FOR GRANT OF PATENT (Regulations 7(1)) To: The Registrar of Patents Patents Registration Office Kuala Lumpur, Malaysia	For Official Use APPLICATION NO: PI 2014701717 Filing Date: 23/06/2014 Fee received on: 23/06/2014 Amount: RM260
Please submit this Form in duplicate together with the prescribed fee	Applicant's file reference: P/Robest/14MY2/tla

THE APPLICANT(S) REQUEST(S) THE GRANT OF A PATENT IN RESPECT OF THE FOLLOWING PARTICULARS:

I. TITLE OF INVENTION: **Vision-touch Braille-phone and Braille overlay stick-on marker**

II. APPLICANT(S) (the data concerning each applicant must appear in this box or , if the space insufficient, in the space below):

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Address for service in Malaysia: **C/O ADASTRA INTELLECTUAL PROPERTY SDN. BHD., A-28-10, MENARA UOA BANGSAR, NO. 5, JALAN BANGSAR UTAMA 1 59000 MALAYSIA**

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Additional Information (if any)

Additional Information (if any)

III. INVENTOR:

Applicant is the inventor:

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If the applicant is not the inventor

Name:

Address:

A statement justifying the applicant's to the patent accompanies this Form

Yes No

Additional Information (if any)

IV. AGENT OR REPRESENTATIVE:

Applicant has appointed a patent agent in accompanying Form No. 17

Yes No

Agent Registration No: **PA/2004/0141**

Applicant has appointed to be their representative: **MOHAN K.**

V. DIVISIONAL APPLICATION:

This application is a divisional application

The benefit of the filing date priority date

of the initial application is claimed in as much as the subject-matter of the present application is contained in the initial application identified below :

Initial Application No:

Date of filing of initial application:

Additional Information (if any)

VI. DISCLOSURE TO BE REGARDED FOR PRIOR ART PURPOSES:

(a) Disclosure was due to acts of applicant or his predecessor in title

Date of disclosure:

(b) Disclose was due to abuse of rights of applicant or his predecessor in title

Date of disclosure:

A statement specifying in more detail the facts concerning the disclosure accompanies this Form.

Yes No

Additional Information (if any)

VII. PRIORITY CLAIM (if any)

The priority of an earlier application is claimed as follows :

Country (if the earlier application is a regional or international application, indicate the office with which it is filed) :

Filing Date:

Application No:

Symbol of the International Patent Classification:

If not yet allocated, please tick

The priority of more than one earlier application is claimed

Yes No

The certified copy of the earlier application(s) accompanies this Form

Yes No

If No, it will be furnished by Date:

Additional Information (if any)

VIII.CHECK LIST

A. This application contains the following:

1. Request	1	sheets
2. Description	5	sheets
3. Claim	2	sheets
4. Abstract	3	sheets
5. Drawings	0	sheets
Total	11	sheets

B. This Form, as filed, is accompanied by the items checked below :

- (a) Signed Form No. 17
- (b) Declaration that inventor does not wish to be named in the patent
- (c) Statement justifying applicant's right to the patent
- (d) Statement that certain disclosure be disregarded
- (e) Priority document (certified copy of earlier application)
- (f) Cash, cheque, money order, bank draft or postal order for the payment of application fee
- (g) Other documents (specify)

IX.SIGNATURE:

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**(Applicant/Agent)

23/06/2014

(Date)

If Agent, indicate Agent's Registration No.: PA/2004/0141

For Official Use

Date application received: 23/06/2014

Date of receipt of correction, later filed papers or drawings completing the application: -

* Delete whichever do not apply

** Type name under signature and delete whichever do not apply



Attached Document

[D037-576702-Abstract.pdf](#)

[D037-576702-Drawings.pdf](#)

[D062-576702-Description.pdf](#)

[D063-576702-Claims.pdf](#)

Title of Invention

Vision-touch Braille-phone and Braille overlay stick-on marker

Field of Invention

5 The present invention relates to cell phone for blind and visually-impaired individuals. More particularly, the invention relates to a Braille overlay stick-on marker for use with wireless touch-screen cell phone.

10 Background of the Invention

The technology of mobile phones had progressed tremendously in recent years. However, for the visually impaired and the blind, they are still stuck with the old models with the conventional physical keypads.

15 There are hundreds of millions of blind and visually-impaired individuals living in the world. Most conventional landline phones and mobile phones include telephone designs having the phone keypad with standard visual forms of symbols on each individual number key (a number and/or letters) to assist the
20 user in dialing a telephone number. It is important that these blind and visually-impaired persons have the same and equal opportunities for accessing the same facilities and services as the rest of the world's population. Wireless mobile phones and

landline telephones need keypads having, Braille thereon in order to provide these blind and visually-impaired persons with a convenient way for accessing wireless communication services, such that a Braille keypad would help blind individuals in speaking with their friends and family; in placing service orders and buying products and services; as well as getting help in emergency situations. There are some Braille-aware wireless phones that use and provide embossed and/or raised dots arranged on each number key and special function keys. Such Braille keypads are costly and not readily or commercially available as standard items for most phones. Also, cell phone faceplates are well-known in the art to change the codes or design of an individual standard cell phone, but these faceplates do not change the appearance of the standard cell phone keypad.

15

The new smartphone with touchscreen are not a user friendly device to them. For social obligation purposes, some phone manufacturers designed some phones with special keypads and also floatable screens. However, products like these are often very sophisticate and expensive and not affordable to this community who are mostly from the low income group.

20

There remains a need for a Braille overlay member for standard cell phones in order to provide blind and visually-impaired individuals with a convenient way for accessing wireless communications.

5 **SUMMARY OF THE INVENTION**

Accordingly, the present invention provides a braille overlay stick-on marker for use with a wireless touch screen cell phone for a blind or visually-impaired user. The marker comprising a braille embossed section including a plurality of number keys in
10 braille code, a back surface having an adhesive layer to stick to a screen of the touch screen cell phone and a plurality of punctured holes marking the position of a touch screen cell-phone buttons.

15 In an embodiment, the present invention provides a vision touch Braille phone for a blind or visually-impaired user. The phone comprises a braille overlay stick-on marker including a braille embossed section with a plurality of number keys in braille code, a back surface having an adhesive layer to stick to a
20 screen of the touch screen cell phone, a plurality of punctured holes marking the position of a touch screen cell-phone buttons and an interface module embedded in the cell phone for controlling operation of the stick-on marker and the cell phone

keypad in coordination to enable operating the vision touch Braille touch-phone by the visually impaired.

In an embodiment, the present invention provides a method for
5 operating a vision touch Braille phone. The method comprises the
steps of pressing an interactive voice response button on the
phone to initiate a sms or a call, following commands issued by
an internal phone system; and pressing a Braille stick-on marker
keypad button based on the commands issued by the phone system
10 for operating the vision touch Braille phone.

BRIEF DESCRIPTION OF THE DRAWINGS

Other objects, features, and advantages of the invention will be
apparent from the following description when read with reference
15 to the accompanying drawings.

Fig. 1a shows a Braille overlay stick-on marker to be placed on
a vision touch braille phone in accordance with an embodiment of
the present invention.

20

Fig. 1b shows a method for operating a vision touch Braille
phone in accordance with an embodiment of the present invention.

DETAILED DESCRIPTION OF THE INVENTION

The present invention will now be described in detail with reference to the accompanying in drawings.

5 Various embodiments of the present invention provide a Braille overlay stick-on marker, a vision touch Braille phone and a method of operating the same.

In an embodiment, the present invention provides a braille
10 overlay stick-on marker for use with a wireless touch screen cell phone for a blind or visually-impaired user. The marker comprising a braille embossed section including a plurality of number keys in braille code, a back surface having an adhesive layer to stick to a screen of the touch screen cell phone and
15 a plurality of punctured holes marking the position of a touch screen cell-phone buttons.

Referring to Fig. 1a, the present invention provides the Braille stick-on marker 110 to be placed on the vision touch Braille
20 phone 120 and a method 100 of operating the Braille stick-on marker. The stick-on marker 110 includes a plurality of number keys in Braille code 130.

In an embodiment, the Braille overlay member is made from a flexible plastic material such as polyvinyl acetate.

In an embodiment, the adhesive layer is selected from the group consisting of double-sided adhesive tape, spray-on adhesive and
5 contact adhesive.

In an embodiment, the present invention provides a vision touch Braille phone for a blind or visually-impaired user. The phone comprises a braille overlay stick-on marker including a braille
10 embossed section with a plurality of number keys in braille code, a back surface having an adhesive layer to stick to a screen of the touch screen cell phone, a plurality of punctured holes marking the position of a touch screen cell-phone buttons and an interface module embedded in the cell phone for
15 controlling operation of the stick-on marker and the cell phone keypad in coordination to enable operating the vision touch Braille touch-phone by the visually impaired.

In an embodiment of the present invention the Braille overlay
20 card is made from a flexible and light-weight metal material such as titanium or aluminum.

In an embodiment, the adhesive layer is selected from the group consisting of double-sided adhesive tape, spray-on adhesive- and contact adhesive.

In an embodiment of the present invention, instead of having a 5 26 characters QWERTY layout, the Vision-touch's keypad adopt a Braille system of having only 6 buttons to compose alphabets to form the words as desired by the users.

In an embodiment, the present invention provides a method 100 10 for operating a vision touch Braille phone as shown in Fig. 1b. The method comprises the steps of S102 pressing an interactive voice response button on the phone to initiate a sms or a call, S104 following commands issued by an internal phone system; and S106 pressing a Braille stick-on marker keypad button based on 15 the commands issued by the phone system for operating the vision touch Braille phone.

The invention comprise of an apps or software which bring out the digital keypad on the touch-screen of the phone. It also has 20 the other buttons which are necessary for controlling other functions such as 'menu / send / next / space' and others.

To enable the blind users to locate the position of these buttons on the relatively smooth surface of the touchscreen, a film material was pasted on the screen which will enable the blind users to feel and locate the position of the buttons.

5

A blind user who is familiar with the Braille system will be able to compose the letterings with the help of the markers on the keypad. When a message is received, the program can be set to read it out to the receiver.

10

Various features and commands can be incorporated into the system such as sending out their GPS location when they are lost or in need of help. As the user can now locate the keypad button by 'feel by touch', he will be able to control many applications such as music box, radio and others in the smartphone.

15

The flow of use-ability or usage sample are as follow:

to start sms or call, press IVR(interactive voice response) button, then the system will tell press 1 to sms, press 2 to call.

20

if press on 1 to sms.

to key in i

i is button 2 and button 4 (you have to understand the braille consists of 6 button, here we make 1 to 6 as the braille)

so i is 2 and 4 based on the braille, then to continue the next input, we have to press 7 which is made for "next" then space is 0, to confirm the spance and go for next input, need to press 7 again. then you can read into the attached
5 picture again to understand more words.

The invention includes features like getting today's date and time, sos geo-location alert to emergency contact, create speed-contact for easy sms or call etc.

10

Although the present invention has been described with reference to the preferred embodiments and examples thereof, it is apparent to those skilled in the art that a variety of modifications and changes may be made without departing from the
15 scope of the present invention which is intended to be defined by the appended claims.

20

Claims:

1. A braille overlay stick-on marker for use with a wireless touch screen cell phone for a blind or visually-impaired user,
5 comprising:
 - a braille embossed section including a plurality of number keys in braille code;
 - a back surface having an adhesive layer to stick to a screen of the touch screen cell phone; and
 - 10 a plurality of punctured holes marking the position of a touch screen cell-phone buttons.

2. The Braille overlay stick-on marker in accordance with claim 1, wherein said Braille overlay member is made from a flexible
15 plastic material such as polyvinyl acetate.

3. The Braille overlay stick-on marker in accordance with claim 1, wherein said adhesive layer is selected from the group consisting of double-sided adhesive tape, spray-on adhesive and
20 contact adhesive.

4. A vision touch Braille phone for a blind or visually-impaired user, comprising:

a) a braille overlay stick-on marker including:

5 a braille embossed section with a plurality of number keys in braille code;

a back surface having an adhesive layer to stick to a screen of the touch screen cell phone;

a plurality of punctured holes marking the position of a touch screen cell-phone buttons;

10 and

b) an interface module embedded in the cell phone for controlling operation of the stick-on marker and the cell phone keypad in coordination to enable operating the vision touch Braille touch-phone by the visually impaired.

15

5. The vision touch Braille phone in accordance with claim 4, wherein said Braille overlay card is made from a flexible and light-weight metal material such as titanium or aluminum.

20 6. The vision touch Braille phone in accordance with claim 4, wherein said adhesive layer is selected from the group

consisting of double-sided adhesive tape, spray-on adhesive- and contact adhesive.

7. The vision Braille phone in accordance with claim 4, wherein
5 instead of having the 26 characters QWERTY layout, the Vision-
touch's keypad adopt a Braille system of having only 6 buttons
to compose alphabets to form the words as desired by the users.

8. A method for operating a vision touch Braille phone
10 comprising the steps of:

pressing an interactive voice response button on the phone to
initiate an sms or a call;

following commands issued by an internal phone system;

and

15 pressing a Braille stick-on marker keypad button based on the
commands issued by the phone system for operating the vision
touch Braille phone.

ABSTRACT

The present invention provides a Braille overlay stick-on marker, a vision touch Braille phone and a method of operating the same.

5 **Ref Fig. 1a**

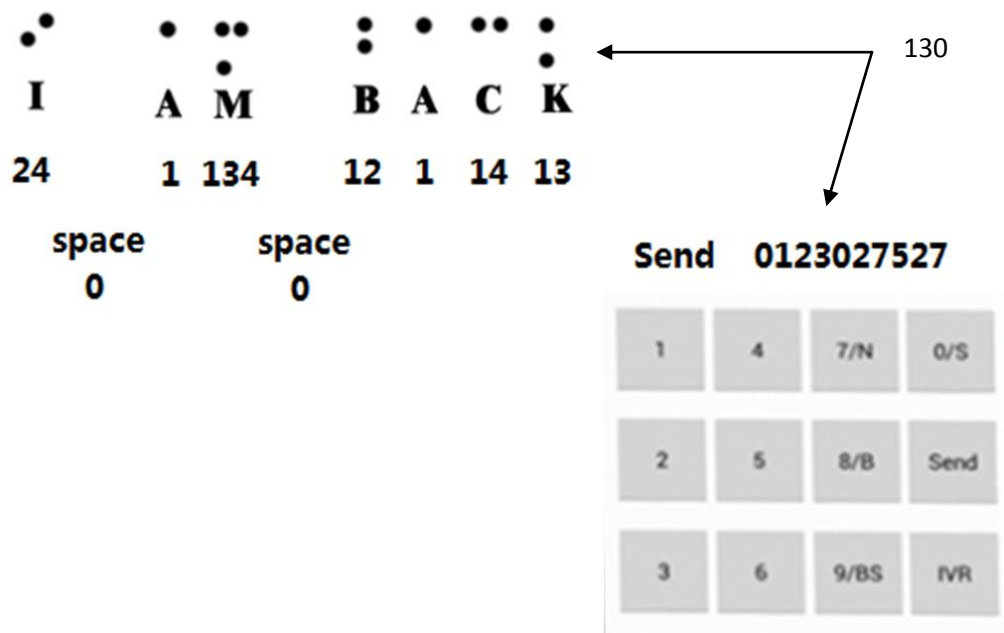
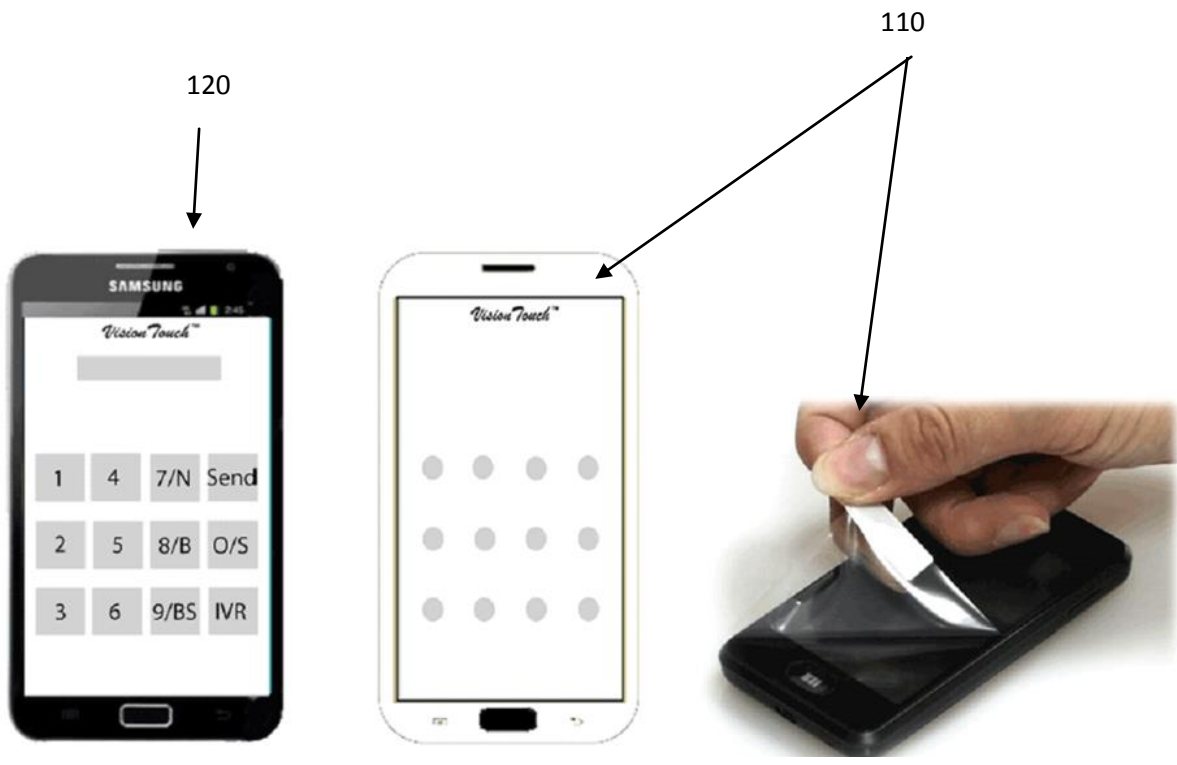


Fig. 1a

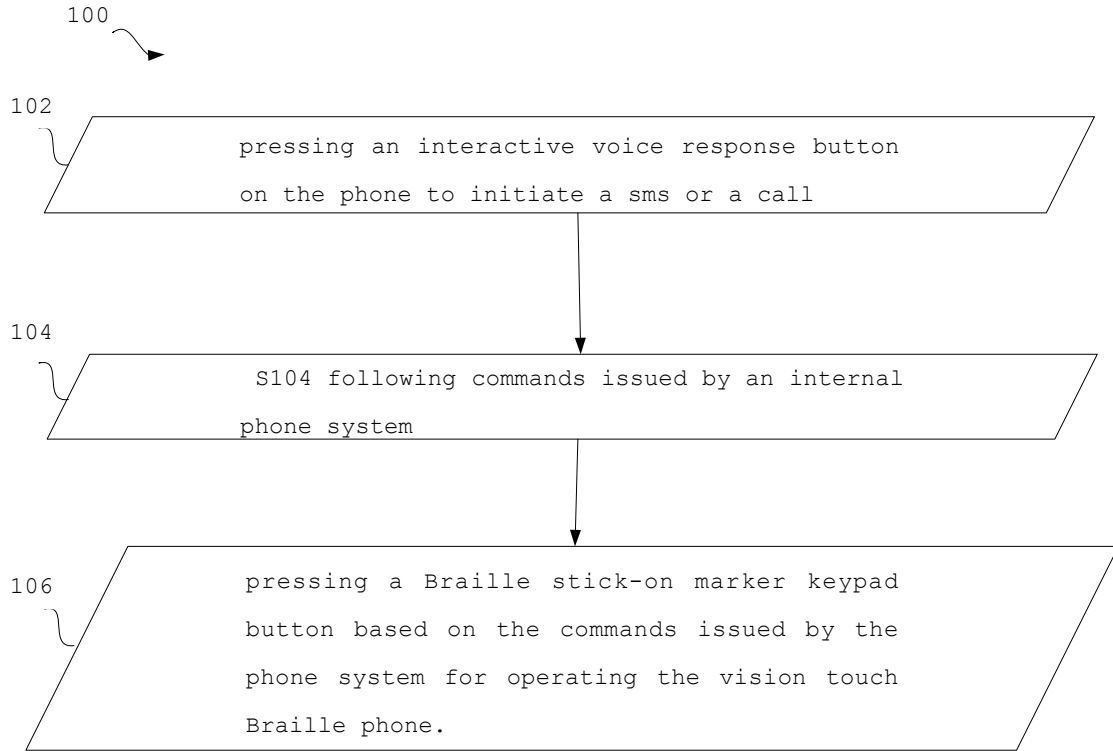


Fig. 1b