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APPLICATION NUMBER: 10/156,409 FILING DATE: May 28, 2002 PATENT NUMBER: 6,885,318 ISSUE DATE: April 26, 2005

IW 7607511

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05-29-0-10156409.058800

Case Docket No. GB 010099

THE COMMISSIONER FOR PATENTS, Washington, D.C. 20231

Enclosed for filing is the patent application of Inventor(s): Matthew J. BICKERTON

For: TEXT ENTRY METHOD AND DEVICE THEREFOR

ENCLOSED ARE:

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- Appointment of Associates; [X]
- Information Disclosure Statement, Form PTO-1449 and copies of [X] documents listed therein;
- r 1 Preliminary Amendment;
- Specification (13 Pages of Specification, Claims, & Abstract); [X]
- Declaration and Power of Attorney: [X]
- []unsigned Declaration);
- (1 Page of a [X] fully executed [] unsigned Declarati Drawing (6 sheets of [] informal [X] formal sheets); Certified copy of GREAT BRITAIN application Serial No. [X] [X]
- 0116083.7;
- Authorization Pursuant to 37 CFR §1.136(a)(3) [X]
- [] Other:
- Assignment to KONINKLIJKE PHILIPS ELECTRONICS N.V. [X]

FEE COMPUTATION

CLAIMS AS FILED				
FOR	NUMBER FILED	NUMBER EXTRA	RATE	BASIC FEE - \$740.00
Total Claims	8 - 20 =	0	X \$18 =	0.00
Independent Claims	2 - 3 =	0	X \$84 =	0.00
Multiple Dependent Claims, if any \$280 =				0.00
TOTAL FILING FEE =				\$740.00

Please charge Deposit Account No. 14-1270 in the amount of the total filing fee indicated above, plus any deficiencies. The Commissioner is also hereby authorized to charge any other fees which may be required, except the issue fee, or credit any overpayment to Account No. 14-1270.

[]Amend the specification by inserting before the first line as a centered heading -- Cross Reference to Related Applications --; and insert below that as a new paragraph -- This is a continuation-, which is filed in-part of application Serial No. herein incorporated by reference --.

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DESCRIPTION

TEXT ENTRY METHOD AND DEVICE THEREFOR

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ΟΟΚΕΤ

The present invention relates to a method of entering text into a device, and to a device such as a portable radio telephone or a handheld computer suitably adapted to implement said method.

Portable radio telephone, or "mobile phone", ownership during recent years has been well documented and reported world-wide. Whilst mobile 10 phone networks such as the Global System for Mobile communications (GSM) were originally designed for voice traffic, the sending of text messages using a Short Messaging Service (SMS) via suitably equipped phones has risen dramatically over the past couple of years, with the number of SMS messages sent world-wide on the GSM networks reaching fifteen billion in December 15 2000. This is in part due to the critical mass of ownership now reached in developed countries and also due to the low and typically fixed costs of sending a text message when compared with a voice call. The popularity of text messaging is also explained by the private and often intimate communication path offered by a text message. The numbers of text 20 messages sent and received by users are forecast to increase even further with the impending introduction of more advanced, so-called 3G (third generation) wireless networks and services, where data, fax and more advanced e-mail services will be available on a 3G mobile phone or suitably equipped handheld computer or personal digital assistant (PDA). 25

A known method of entering text into devices such as mobile phones involves a user pressing a key on a keypad several times to cycle through characters associated with the key, until the character required is selected. For example, the number "2" key is associated with the characters "abc", the "3" key with the characters "def", the "4" key with the characters "ghi", the "5" key with "jkl" and so on. To select the character "a", the "2" key is pressed once. To select the character "b" the "2" key is press twice. The character "l"

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is selected by pressing the "5" key three times and so forth. Special characters (for example full stop, exclamation mark, double quote, dollar, percent, ampersand and star) are produced by tapping the one or zero keys several times until the required special character is selected. This method of
entering text, commonly referred to as the "multitap" method is at present almost ubiquitous on mobile phones due to agreed standardisation between mobile phone manufacturers and service providers. Users are therefore very familiar with the multitap keypad layout and character association. However, this method often requires more than two key taps to select a character, and the entering of special characters can take many key taps. The method is therefore slow and prone to error.

An alternative method of inputting text to a device is disclosed in US patent number 5,128,672 wherein the device comprises a dynamic predictive keyboard which is graphically represented on a touch sensitive display. A user inputs a character by pressing a key with the required character displayed on 15 it. Following a character input, software provided within the device formulates a prediction, based on statistical analysis of the make-up and composition of English words of the next most likely character required by the user and consequently the layout of the keyboard is altered such that said most likely character is displayed on the keyboard. This has the problem that the 20 keyboard does not resemble the multitap keypad familiar to mobile phone users, thereby presenting an unfamiliar interface to the average user. This problem is further compounded since in use the constant changing of the keyboard layout necessitates much practice and learning for proficient and quick text entry. Furthermore, the access and input of special characters is a 25 problem unsolved by the predictive means of US5,128,672.

It is therefore an aim of the present invention to provide an improved method of entering characters into a device such as a mobile phone or handheld computer. It is a further aim of the present invention to provide a method consistent with a keypad with which mobile phone users are familiar.

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According to a first aspect of the present invention there is provided a method for inputting a character to a device, the device comprising a keypad, the keypad comprising a plurality of keys, at least one of which keys has a primary character, a plurality of secondary characters and a display area associated with it, the keypad in a default state displaying the primary character associated with a key in its respective display area, wherein the method comprises the steps of: detecting a first key selection; displaying each of the secondary characters associated with the first selected key in a respective display area; detecting a second key selection; selecting for input the secondary character associated with the second key selection; and returning the keypad to the default state.

According to a second aspect of the present invention there is provided a device for receiving character input, comprising a keypad having a plurality of keys, a key having a primary character, a plurality of secondary characters and a display area associated with it, wherein means are provided for displaying in a default state the primary character associated with a key in its respective display area, means responsive to a first key selection are provided for displaying each of the secondary characters associated with the selected key in a respective display area, and means responsive to a second key selection are provided for selecting as input character the secondary character associated with the second key selected and for returning the keypad to its default state.

The device and method of this invention comprise a keypad having a default display state wherein primary, and optionally secondary, characters are displayed. A user inputs a character by selecting the key having that character as one of its associated secondary characters, following which the keypad displays the required character which is then input via an appropriate second key selection.

In one embodiment of the present invention the keypad is displayed on a touch screen, the touchscreen having an output area for displaying characters input by the user. In this embodiment the display area associated

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