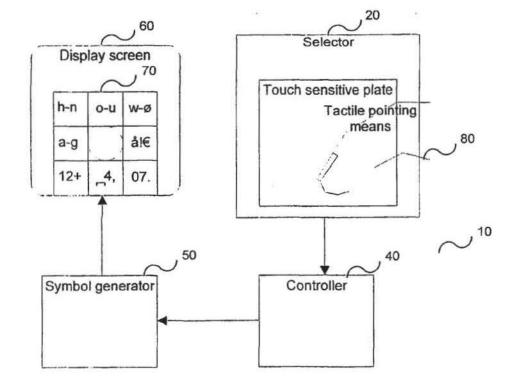
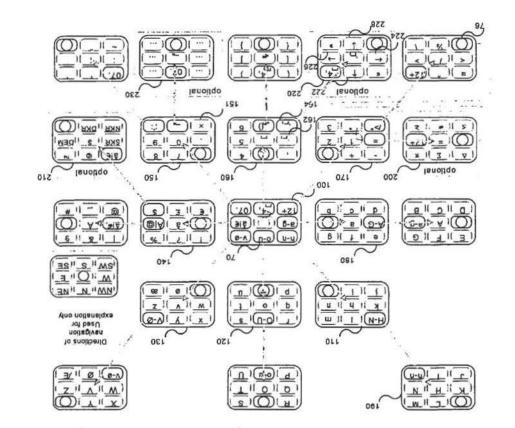
1/6



# Fig. 1

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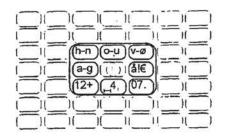
GOOGLE EX. 1008 - 00159 Google v. Philips

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Fig.

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3/6



$(\underline{-}) \left[ \underbrace{(\mathbf{q} \   (\mathbf{q})   \mathbf{t}}_{\mathbf{p}} \right] \underbrace{(\mathbf{q}) \left[ \mathbf{t} \right]}_{\mathbf{q}} \underbrace{(\mathbf{t}) $
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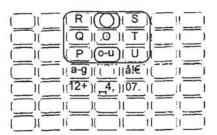
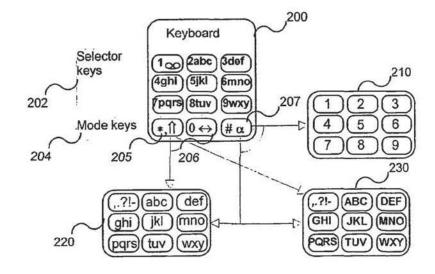


Fig. 3

GOOGLE EX. 1008 - 00160 Google v. Philips WO 02/14996

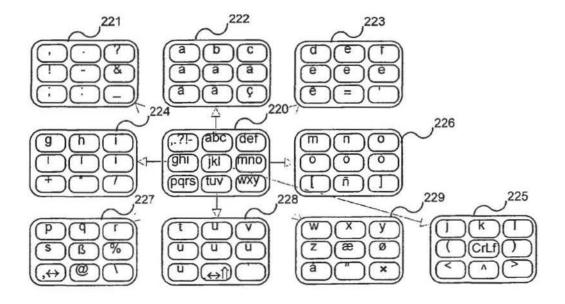


# Fig. 4a

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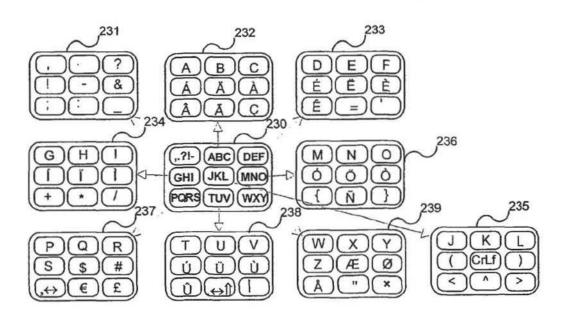


# Fig. 4b

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WO 02/14996



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Fig. 4c

GOOGLE EX. 1008 - 00163 Google v. Philips

Electronic Patent Application Fee Transmittal						
Application Number:						
Filing Date:					307	
Title of Invention:	TEXT ENTRY METHOD AND DEVICE THEREFOR					
First Named Inventor/Applicant Name:	Matt	hew J. Bickerton				
Filer:	Mich	ael E. Belk/Elissa I	DeLuccy			
Attorney Docket Number:	2001	P00413US01				
Filed as Large Entity						
Reissue (Utility) Filing Fees					×	
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)	
Basic Filing:						
Utility Reissue Basic		1014	1	280	280	
Design and Utility Reissue Basic		1114	1	600	600	
Design and utility Reissue Basic		1314	1	2160	2160	
Pages:						
Claims:						
Miscellaneous-Filing:						
Petition:						
Patent-Appeals-and-Interference:						

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
	Tot	al in USD (	\$)	3040

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Electronic A	Acknowledgement Receipt
EFS ID:	16464743
Application Number:	13955345
International Application Number:	
Confirmation Number:	6652
Title of Invention:	TEXT ENTRY METHOD AND DEVICE THEREFOR
First Named Inventor/Applicant Name:	Matthew J. Bickerton
Customer Number:	24737
Filer:	Michael E. Belk/Elissa DeLuccy
Filer Authorized By:	Michael E. Belk
Attorney Docket Number:	2001P00413US01
Receipt Date:	31-JUL-2013
Filing Date:	
Time Stamp:	13:59:11
Application Type:	Reissue (Utility)

# Payment information:

	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$3040
RAM confirmation Number	276
Deposit Account	141270
Authorized User	

GOOGLE EX. 1008 - 00166 Google v. Philips

File Listin	g:				
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.
1	Application Data Sheet	2001P00413US01_ADS.pdf	967808	no	4
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Warnings:					
Information:					
2	Specification	2001P00413US_Patent_US688	473633	no	11
	2	5318B2.pdf	1945ee8eade952cfd5b109b627c52f8c6402 33f8		9
Warnings:				_	
Information:					
3	Assignee showing of ownership per 37	2001P00413U501_373_Statem	395640	no	2
5	CFR 3.73.	ent.pdf	6174f148f0e02976f7880c90297f505df9c4a 1c3		-
Warnings:					
Information:					
4	Power of Attorney	2001P00413US01_POA.pdf	119153	no	1
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Information:					
	Consent of Assignee accompanying the	2001P00413U501_Consent_of_	245229		
5	declaration	Assignee.pdf	37d0ce1c6d430cc0e5f8542f8ae76e290ca8 b346	no	2
Warnings:					
Information:					
6	Reissue dec filed in accordance with	2001P00413US01_Declaration.	587935	no	3
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7		2001P00413US01_PrelimAmd.	2126705	yes	16
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	Multip	art Description/PDF files in .:	zip description		
Ī	Document Des	cription	Start	En	d
ľ	Preliminary Ame	ndment	1	1	
-	Specificati	2	2		

	Claims	3	4	В		
	Applicant Arguments/Remarks	9	1	6		
Warnings:						
Information	:					
8	Information Disclosure Statement (IDS) Form (SB08)	2001P00413US01_IDS_2013_Ju ly_25.pdf	612949 92cd08u945a3ed63655604594884d14b8735 3e296	no	5	
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Information	:					
9	Foreign Reference	EP0889388A1.pdf	2545987	no	28	
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Warnings:						
Information	•					
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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

#### National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

#### New International Application Filed with the USPTO as a Receiving Office

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	2001P00413US01
		Application Number	
Title of Invention	TEXT ENTRY METHOD AND	DEVICE THEREFOR	
bibliographic data arran This document may be	iged in a format specified by the Uni	ited States Patent and Trademark C mitted to the Office in electronic for	being submitted. The following form contains the ffice as outlined in 37 CFR 1.76. rmat using the Electronic Filing System (EFS) or the

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Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

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Applic	ant Authority Ol	ventor C	)Legal	Representativ	ve under 3	U.S.C. 1	17	OParty of Interest under 35	J.S.C. 118
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Citizer	ship under 37 CF	R 1.41(b) i	G	в					
Mailing	g Address of App	icant:							
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# **Application Information:**

Title of the Invention	TEXT ENTRY METHOD AND DEVICE THEREFOR				
Attorney Docket Number	2001P00413US01 Small Entity Status Claimed				
Application Type	Nonprovisional				
Subject Matter	Utility				
Suggested Class (if any)	Sub Class (if any)				
Suggested Technology Ce	enter (if any)				
Total Number of Drawing Sheets (if any)		6	Suggested Figure for Publication (if any)		

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Application Da	ta Sheet 37 CFR 1.76	Attorney Docket Number	2001P00413US01
Application Da	a Sheet S7 CFR 1.70	Application Number	
Title of Invention	TEXT ENTRY METHOD AND	DEVICE THEREFOR	

## Publication Information:

Request Early Publication (Fee required at time of Request 37 CFR 1.219)
<b>Request Not to Publish.</b> I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

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Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Enter either Customer Number or complete the Representative Name section below. If both sections are completed the Customer Number will be used for the Representative Information during processing.								
Please Select One:	Customer Number	O US Patent Practitioner	O Limited Recognition (37 CFR 11.9)					
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# Domestic Benefit/National Stage Information:

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Prior Applicat	ion Status	Patented		Remove				
Application Number	Cont	Continuity Type Prior Application		Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)		
	reissued of		10/156409	2002-05-28	6885318	2005-04-26		

# Foreign Priority Information:

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(a).

Application Number	umber Country i Parent Filing Date (		Priority Claimed
0116083.7	GB	2001-06-30	• Yes O No

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# Assignee Information:

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### PTO/SB/14 (07-07)

Approved for use through 06/30/2010. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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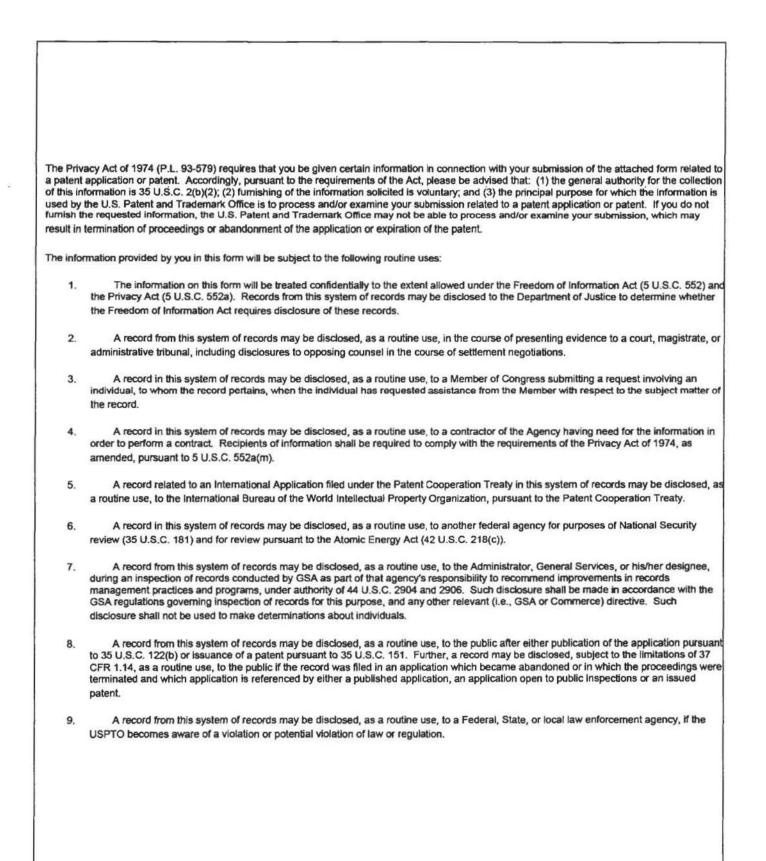
Application De	Sheet 27 CED 4 76	Attorney Docket Number	2001P00413US01
Application Da	ta Sheet 37 CFR 1.76	Application Number	
Title of Invention	TEXT ENTRY METHOD AND	DEVICE THEREFOR	
If the Assignee is a	n Organization check here.	X	
Organization Name	KONINKLIJKE PHILIPS	ELECTRONICS N.V.	
Mailing Address In	formation:		
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Address 2			
City	EINDHOVEN	State/Provin	nce
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Additional Assigned button.	Data may be generated w	ithin this form by selecting t	he Add Add
Signature:			

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the form of the signature.

Signature	/Michael E. Belk/			Date (YYYY-MM-DD) 2013-07-2		
First Name	Michael E.	Last Name	Belk	Registration Number	33357	

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# **Privacy Act Statement**





## (12) United States Patent Bickerton

#### (54) TEXT ENTRY METHOD AND DEVICE THEREFOR

- (75) Inventor: Matthew J. Bickerton, Bletchingley (GB)
- Koninklijke Philips Electronics N.V., (73) Assignee: Eindhoven (NL)
- (\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 507 days.
- (21) Appl. No.: 10/156,409
- (22)Filed: May 28, 2002
- (65) **Prior Publication Data**

US 2003/0025616 A1 Feb. 6, 2003

#### (30)Foreign Application Priority Data

(GB) ...... 0116083 Jun. 30, 2001

- (51) Int. Cl.<sup>7</sup> ..... H03K 17/94; H03M 11/00
- 400/486 (58) Field of Search ...... 341/22; 379/368,
- 379/906; 400/477, 486; 345/168

#### (56) **References** Cited

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# Apr. 26, 2005

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#### FOREIGN PATENT DOCUMENTS

#### WO WO 0214996 2/2002 ..... G06F/3/00

#### OTHER PUBLICATIONS

Patent Abstracts of Japan, Ono Katsuyasu: "Adjacent Character Display Keyboard," Publication No. 07200120, Apr. 8, 1995, Application No. 05355185, Dec. 28, 1993.

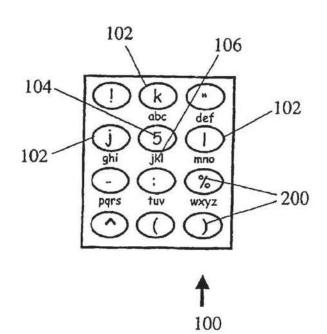
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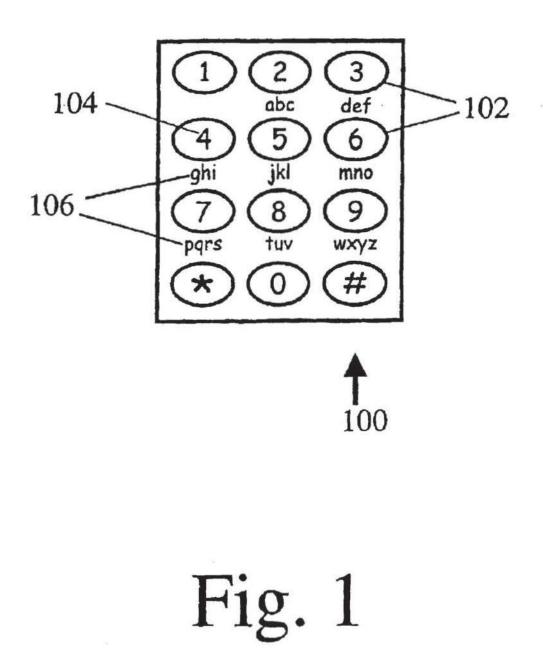
Primary Examiner-Timothy Edwards, Jr. (74) Attorney, Agent, or Firm-Gregory L. Thorne

#### (57) ABSTRACT

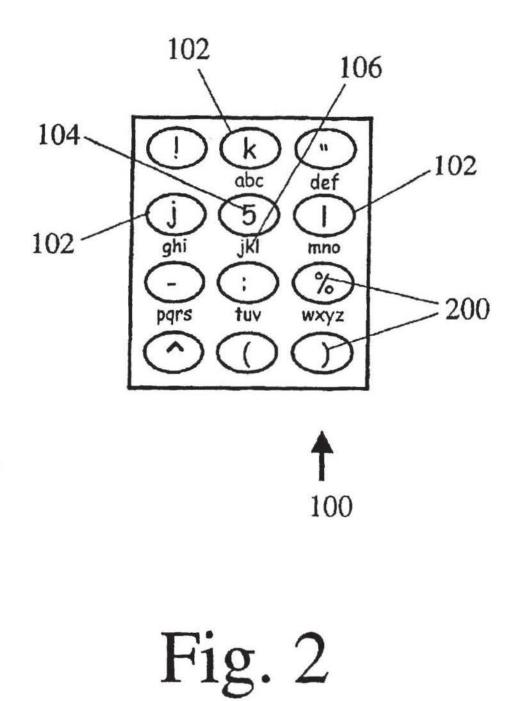
A method and device for improved character input are described, wherein the method employs a keypad 100 comprising keys 102 able to display secondary characters 106 in addition to primary characters 104. The keypad has a default display state. A first key selection causes the keypad 100 to display secondary characters 106 associated with the first key on other keys 102, whereupon a second key selection causes the displayed character to be input, following which the keypad reverts to displaying the default state. Further secondary characters 200 may also be displayed after a first key selection. The method is particularly useful for handheld devices such as mobile radio telephones or handheld computers adapted to implement the method of the invention.

#### 7 Claims, 6 Drawing Sheets

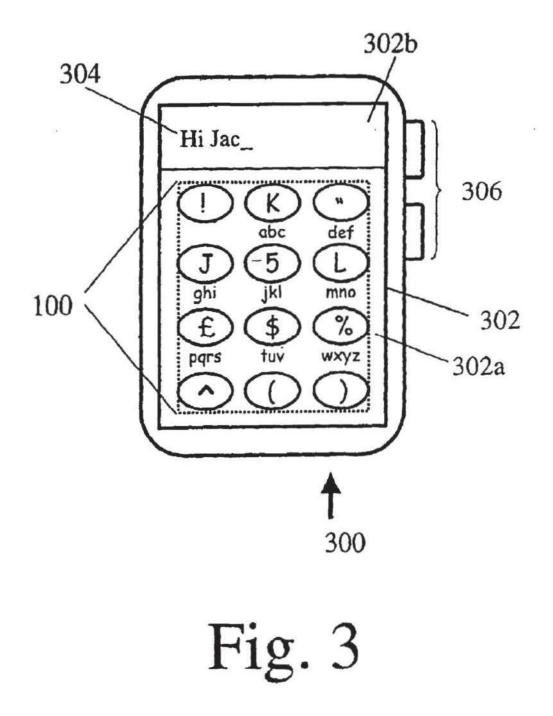




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GOOGLE EX. 1008 - 00176 Google v. Philips 4



GOOGLE EX. 1008 - 00177 Google v. Philips

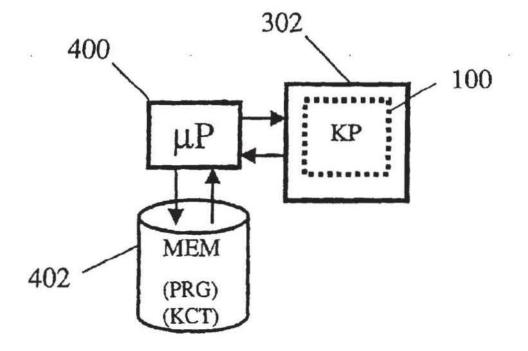


Fig. 4

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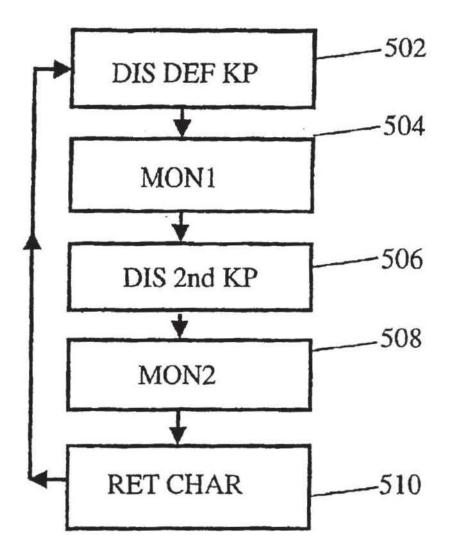


Fig. 5

GOOGLE EX. 1008 - 00179 Google v. Philips •

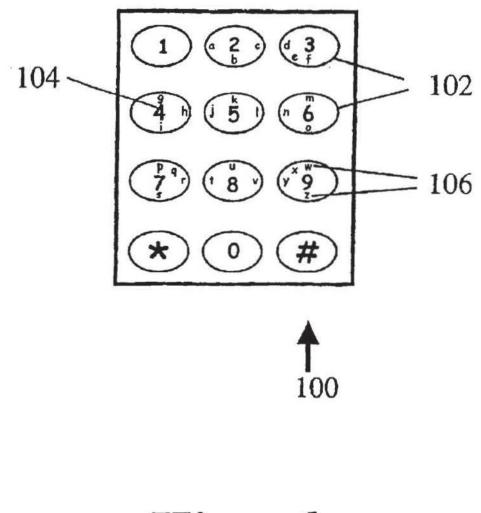


Fig. 6

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#### TEXT ENTRY METHOD AND DEVICE THEREFOR

The present invention relates to a method of entering text into a device, and to a device such as a portable radio 5 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 phone networks such as the 10 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 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 messages sent and received by users are forecast to increase even further with the impending introduction of 25 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 30 assistant (PDA).

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 35 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" 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 45 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 55 is displayed on a touch screen, the touchscreen having an error.

An alternative method of inputting text to a device is disclosed in U.S. Pat. No. 5,128,672 wherein the device comprises a dynamic predictive keyboard which is graphically represented on a touch sensitive display. A user inputs 60 a character by pressing a key with the required character displayed on it. Following a character input, software provided within the device formulates a prediction, based on statistical analysis of the make-up and composition of 65 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 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 problem unsolved by the predictive means of U.S. Pat. No. 5,128,672.

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.

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 output area for displaying characters input by the user. In this embodiment the display area associated with a key is provided by an area of touchscreen within or adjacent to the graphical representation of the key or button.

In another embodiment of the present invention the associated display area of a key is provided by display means such as a liquid crystal display within or adjacent to the key or button. The display means are arranged such that a displayed character is visible to the user, and hence character association with the key is rendered obvious to the user.

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The method and device of this invention provide improved text entry particularly suited to, but not exclusively for, hand held devices such as portable mobile radio telephones, personal digital assistants, pocket computers and remote control handsets.

Embodiments of the present invention will now be described, by way of example only, with reference to the accompanying figures in which:

FIG. 1 depicts a default display state of a keypad for use with the present invention.

FIG. 2 illustrates an example of the characters displayed on the keypad after a first key selection.

FIG. 3 depicts an example of a device made in accordance with the present invention.

FIG. 4 is a schematic diagram of components of the device of FIG. 3.

FIG. 5 is a flow diagram illustrating a basic implementation of a method according to the present invention.

FIG. 6 depicts an alternative default display state of a 20 keypad for use with the present invention.

In the figures the same reference numerals have been used to indicate corresponding features.

FIG. 1 depicts a keypad 100 in a default display state wherein twelve keys 102 are arranged in four rows of three 25 keys. Each key has a primary character 104 and a plurality of secondary characters 106 associated with it. The primary character 104 displayed on each key 102 is, in this embodiment, selected from the group of characters 1, 2, 3, 30 4, 5, 6, 7, 8, 9, 0, # and \*. The secondary characters 106 associated with each key are shown in groups adjacent the respective key. The secondary character groupings in this embodiment are similar to those of the multitap method, for example the key associated with primary character "2" has 35 an associated secondary character grouping "abc", the key "3" the associated secondary characters "def" and so on as shown in the figure. Hence, the default display state of the keypad 100 as shown in FIG. 1 presents to the user a keypad having a well known key and character layout, thereby necessitating little or no familiarisation.

FIG. 2 illustrates a possible display state of the keypad 100 after a first key selection by a user, the selected key in this example being the "5" key (the key associated with the 45 primary character "5" and secondary characters "jkl"). The secondary character "j" is displayed by the display area associated with a neighbouring key, in this example the key associated with the primary character "4" adjacent the "5" key. Similarly, the secondary characters "k" and "l", associated with the first key selection, are displayed respectively on the keys previously displaying "2" and "6" as primary characters. In this example the remaining keys have displayed upon them further characters 200 which are useful 55 for text entry. For example characters representing an exclamation mark, a double quote, a pound, a dollar sign, left and right brackets, a percentage symbol and a caret may be displayed as shown in FIG. 2.

A second key selection from the keypad of FIG. 2 selects <sup>60</sup> the character displayed on the display area associated with said second key for input. Following a character input, the keypad of FIG. 2 is returned to the default display state as shown in FIG. 1.

The key selections are typically provided by a user's finger or stylus and may comprise the user tapping a first key followed by the user tapping a second key. Alternatively, the user may make a second key selection by sliding or dragging said finger or stylus across the keypad from the first key to the second key and pausing on, or removing the finger or stylus from, the required second key.

The dynamic keypad states illustrated in FIG. 1 and FIG. 2 provide a method of quick and accurate character input wherein secondary characters are available with only two <sup>10</sup> key selections. Additionally the method is intuitive and requires little or no learning by the user due to the provision of a familiar default keypad display state.

An embodiment of a device employing the keypad and 15 features of this method and made in accordance with the present invention is shown in FIG. 3. The figure depicts a hand-held device 300 such as a personal digital assistant (PDA) or sometimes called a handheld computer. The device comprises a touchscreen 302 comprising touch input means arranged to detect touch input upon a surface of a display means (such as a liquid crystal or organic light emitting diode display). The touchscreen in this embodiment displays a keypad 100 to the user within a touch input region 302a of the touchscreen, whilst input characters 304 are displayed in an output region 302b of the touchscreen 302. In FIG. 3 the keypad 100 is shown in the second display state of FIG. 2, wherein a first key selection of the key "5" has occurred and the keypad awaits a second key selection to input a character. The device further comprises control buttons 306 provided to power up the device or change mode of usage for example. Additionally the handheld device may incorporate means (not shown on FIG. 3) to transmit and receive data. including voice and text messaging wirelessly via a suitable network.

The device 300 further comprises components adapted for carrying out a method in accordance with the present invention, these components being schematically represented in FIG. 4. The relevant components comprise a computer program (PRG) and processing means in the form of a general purpose microprocessor 400 ( $\mu$ P). The computer program is stored in computer readable storage media 402 (MEM), the PRG comprising instructions to instruct the microprocessor (uP) 400 to carry out the steps of a method according to the present invention. It is noted herewith that although the processing means of this embodiment comprise a general purpose microprocessor, other suitable forms of processing means such as dedicated logic circuits, PICmicro® chips or application specific integrated circuits (ASIC) operating with or without a computer program could be employed in alternative embodiments.

In FIG. 4 there is also provided the touchscreen 302, the touchscreen able to display a keypad 100 (KP) and detect touch input for inputting characters. In this embodiment the display area associated with each key 102 of the keypad 100 is provided by an area of touchscreen 302 within or adjacent to the graphical representation of the key 102.

Additionally, one or more key character tables (KCT) are provided within MEM 402. A KCT provides information to the microprocessor relating to the default keypad to be 65 displayed on the touchscreen, and also provides the primary and secondary characters which are to be displayed upon a first key selection.

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An example of a KCT is presented below (Table 1).

KEY PRIMARY CHARACTER SECONDARY CHARACTER(S)									
	SECONDARY CHARACTER(S)	PRIMARI CHARACIER	AL I						
	Not used	1	1						
	abc	2	2						
	def	3	3						
	ghi	4	4						
	jkl	5	5						
	onm	6	6						
	pqrs	7	7						
	tuv	8	8						
	wxyz	9	9						
	Not used	0	0						
	Not used		•						
	Not used	#	#						

Table 1 thereby provides primary and secondary characters to the microprocessor which, under the guidance of PRG instructs the touchscreen to display these characters in the appropriate locations to build up a default keypad display state corresponding to FIG. 1 and Table 1.

Similarly a KCT relating to a first key selection of key 5 is shown below in Table 2.

TABLE 2

	DISPLAY SECONDARY CHARACTER	KEY
1	1	1
10	k	2
		3
	i	4
	5	5
	1	6
	£	7
3	S	8
	\$ %	8 9 0
		0
	(	
	ŝ	-

This KCT provides the characters displayed upon a first key selection corresponding to key 5 thereby providing a second keypad display state as shown in FIG. 2.

In operation, the microprocessor 400, under the guidance of PRG looks up the default key character assignations <sup>45</sup> stored in MEM 402 as a KCT (for example the KCT of Table 1) and instructs the touchscreen 302 to display the keypad 100 in a default display state. The touchscreen is sampled repeatedly until a first key selection is detected, following which the appropriate characters to be displayed are retrieved from an appropriate stored KCT (e.g. Table 2) by the microprocessor and provided to the touchscreen which updates the keypad 100 displayed. Following these operations the touchscreen is sampled repeatedly for a second key 55 selection.

Upon detection of a second key selection the microprocessor 400 compares the key selected with the displayed KCT (Table 2 for example) and returns the input character for display in the output region 302b of the touchscreen 302.<sup>60</sup> Finally, the microprocessor instructs the touchscreen to display the default keypad and awaits further user interaction.

A flow diagram illustrating the main steps of this method  $_{65}$  is presented in FIG. 5, the method being performed as a loop, wherein:

A default keypad is displayed (DIS DEF KP) 502 The keypad is monitored for a first key selection (MON1) 504

- Following a first key selection the appropriate characters are displayed on the keypad (DIS 2<sup>nd</sup> KP) 506
- The keypad is monitored for a second key selection (MON2) 508
- Following a second key selection the secondary character associated with the second key selection is returned as an input character (RET CHAR) 510
- Loop back to display the default keypad (DIS DEF KP) 502

In a further embodiment, the first key selection is reported only after the key is selected by a user for a pre-determined time period, for example a time period of 0.2 seconds. This enables quick tapping to select the default primary characters displayed on a default keypad, thereby allowing fast number entry when required without altering the keypad display state.

According to a further embodiment of this invention, the display of primary or secondary characters associated with a key is achieved by providing an associated display area within, on or situated adjacent to the key. The default assigned secondary characters are provided adjacent to the keys on the keypad, and the user presses the keys to input characters in accordance with a method of this invention.

In a further embodiment of this invention, the default display state of the keypad comprises positioning some of the secondary characters associated with a key such that the key display area upon which a secondary character will be displayed next is indicated to the user. An example of a keypad default display state according to this embodiment is given in FIG. 6 wherein secondary characters are displayed within a key, each secondary character being positioned relative to the key upon which it will appear following a first key selection. For example, the key displaying the primary character "5" has the secondary characters "j", "k" and "l" positioned to the left, above and right of the "5" respectively. Hence a visual indication of the key upon which each character will appear should the "5" be first selected is provided to the user. In this example the default display state provides an indication that the "j" will appear on the "4" key to the left of the "5" key, as is shown in the example of the keypad in FIG. 2.

In yet a further embodiment of this invention, one or more of the key character tables are alterable, thereby providing a user with the option of customising the keypad to his or her preference.

Whilst the embodiments described hereinbefore apply this invention to handheld devices such as PDAs and mobile phones, it will be apparent to those skilled in the art that the teaching of this invention may also be applied to advantage to devices wherever character input is required, such as remote control handsets or children's learning aids and toys.

Additionally, the characters assigned as primary and or secondary characters may be any characters convenient for the device, language and application chosen, and the keypad may comprise more or less keys displaying more or less characters than those illustrated herein without departing from the spirit and scope of this invention.

What is claimed is:

1. A method for inputting a character to a device, the device comprising a keypad, the keypad comprising a plu-

rality 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; 10 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.

<sup>15</sup> 2. A method according to claim 1, wherein the keypad in a default state further displays associated secondary characters adjacent the primary character, the location of each secondary character providing an indication of which display area will display that secondary character following a 20 first key selection.

3. A computer program product stored on a computer readable medium for performing all of the steps of claim 1 when the program is run on a device for receiving character input. 25

4. A device for receiving character input, comprising a keypad having a plurality of keys, at least one of which keys

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has 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 selection and for returning the keypad to its default state.

5. A device as claimed in claim 4, further comprising a touchscreen on which the keypad is displayed and wherein the display area associated with a key comprises a respective portion of the touchscreen.

6. A device as claimed in claim 4, wherein the display area associated with a key is provided by display means within the key.

 A device as claimed in claim 4, wherein the display area associated with a key is provided by display means adjacent the key.

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STATEMENT UNDER 37 CFR 3.73(b)	non unless it displays a valid OMB control numb
Applicant/Patent Owner: Koninklijke Philips Electronics N.V.	
Application No./Patent No.: US 6,885,318 Filed/Issue Date: April 2	26, 2005
Titled:	
TEXT ENTRY METHOD AND DEVICE THEREFOR	
Koninklijke Philips Electronics N.V. , a Corporation	
(Name of Assignee, e.g., corporation, partner	ship, university, government agency, etc.
states that it is:	
1. X the assignee of the entire right, title, and interest in;	
2. an assignee of less than the entire right, title, and interest in (The extent (by percentage) of its ownership interest is%); or	
3. the assignee of an undivided interest in the entirety of (a complete assignment from on	e of the joint inventors was made)
the patent application/patent identified above, by virtue of either:	
A. X An assignment from the inventor(s) of the patent application/patent identified above. T the United States Patent and Trademark Office at Reel 012954 , Frame 0	he assignment was recorded in 107 , or for which a
copy therefore is attached.	
B. A chain of title from the inventor(s), of the patent application/patent identified above, to	the current assignee as follows:
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Additional documents in the chain of title are listed on a supplemental sheet(s).	
As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from th or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.	e original owner to the assignee was,
[NOTE: A separate copy ( <i>i.e.</i> , a true copy of the original assignment document(s)) must be accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See	
The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.	
/Michael E. Marion/	July 31, 2013
Signature	Date
Michael E. Marion	Authorized Signatory
Printed or Typed Name	Title
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PTO/S8/06 (09-11) Approved for use through 1/31/2014. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

D	ATENT APPL							a collection or Docket		Filing Date	valid OMB control number.
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	BASIC FEE N/A N/A N/A								N/A		
	SEARCH FEE (37 CFR 1.16(k), (i),	or (m))	N/A		N/A				N/A		
	EXAMINATION FE (37 CFR 1.16(o), (p),		N/A		N/A				N/A		
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS IND CLAIMS	
13/955,345	07/31/2013	2681	3040	2001P00413US01	16 3	
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4737				FILING RECEIPT		
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Inventor(s)

-

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Assignment For Published Patent Application

KONINKLIJKE PHILIPS ELECTRONICS N.V., EINDHOVEN, NL

Power of Attorney: The patent practitioners associated with Customer Number 24737

Domestic Priority data as claimed by applicant

This application is a REI of 10/156,409 05/28/2002 PAT 6885318

Foreign Applications (You may be eligible to benefit from the Patent Prosecution Highway program at the USPTO. Please see <u>http://www.uspto.gov</u> for more information.) UNITED KINGDOM 0116083.7 06/30/2001 No Access Code Provided

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The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/955,345** 

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

Early Publication Request: No

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#### Title

### TEXT ENTRY METHOD AND DEVICE THEREFOR

#### **Preliminary Class**

341

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The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit <u>http://www.SelectUSA.gov</u> or call +1-202-482-6800.

GOOGLE EX. 1008 - 00190 Google v. Philips

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875									Application or Docket Number 13/955,345		
APPLICATION AS FILED - PART I (Column 1) (Column 2) SMALL ENTITY							OR	OTHER THAN SMALL ENTITY			
FOR		NUMBER FILED		D NUMBE	R EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)	
BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		1	N/A	N/A			N/A	280	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))		N/A		1	N/A	N/A		1	N/A	600	
EXAMINATION FEE (37 CFR 1.15(o), (p), or (q))		N/A		1	N/A	N/A		1	N/A	2160	
TOTAL CLAIMS (37 CFR 1.16(i))		16 minus 20-		20=				OR	× 80 -	0.00	
INDEPENDENT CLAIMS (37 CFR 1.16(h))		3	minus	3 -				1	× 420 -	0.00	
E	PLICATION SIZE E CFR 1.16(s))	sheets of p \$310 (\$15 50 sheets	baper, th 5 for sm or fractio	and drawings e e application si all entity) for ea on thereof. See ' CFR 1.16(s).	ze fee due is ich additional			].		0.00	
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))								1		0.00	
" If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL	1	1	TOTAL	3040	
NTA	A	REMAINING AFTER MENDMENT		NUMBER PREVIOUSLY PAID FOR	PRESENT	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONA FEE(\$)	
					EXTRA	, , , , , , , , , , , , , , , , , , , ,	FEE(\$)			FEE(\$)	
AMENDMENT	Total (37 CFR 1.16(i))		Minus		-	x -	1	OR	× -		
	(37 CFR 1.18(h))		Minus		-	x -		OR	× -		
Š	Application Size Fee (3	7 CFR 1.16(s))									
	FIRST PRESENTATIO	N OF MULTIPL	E DEPEN	DENT CLAIM (37 C	CFR 1.16(j))			OR			
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE		
_		(Column 1)		(Column 2)	(Column 3)			1			
AMENDMENT B		CLAIMS REMAINING AFTER MENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONA FEE(\$)	
	Total * (37 CFR 1.16(i))		Minus		-	x •		OR	x -		
	Independent * (37 CFR 1.16(h))		Minus		-	x -		OR	× -		
	Application Size Fee (3	7 CFR 1.16(s))						1			
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16())							OR			
_							1	OR			
	<ul> <li>If the entry in colum</li> <li>If the "Highest Num</li> <li>If the "Highest Number I</li> </ul>	ber Previous! er Previously F	y Paid For	OF" IN THIS SPA	CE is less than 2 s less than 3, erte	ADD'L FEE nn 3. 10, enter "20". nr *3*.	t in column 1.	OR	TOTAL ADD'L FEE		

UNITED STA	ites Patent and Trademar	K OFFICE UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address. COMMISSIONER FOR PATENTS PO. Box 1450 Alexandria, Viginia 22313-1450 www.mapto.gov			
APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE		
13/955,345	07/31/2013	Matthew J. Bickerton	2001P00413US01		
			<b>CONFIRMATION NO. 6652</b>		
24737		FORMALITIES LETTER			
PHILIPS INTELLECTUAL P.O. BOX 3001 BRIARCLIFF MANOR, NY	PROPERTY & STANDARDS	→CC0000000635384000*			
DITIANOLITY MANON, NY	10310		Date Mailed: 09/03/2013		
12.1		(a. /			

# NOTICE TO FILE MISSING PARTS OF REISSUE APPLICATION

### Filing Date Granted

An application number and filing date have been accorded to this reissue application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

 does not state that the above-identified application was made or authorized to be made by the person executing the oath or declaration.

An inventor's oath or declaration in compliance with 37 CFR 1.63 or 1.64 (and 37 CFR 1.175) executed by or with respect to each inventor is required. For a reissue application, the inventor's oath or declaration must be submitted prior to examination and cannot be postponed. See 37 CFR 1.175(e). An assignee of the entire interest can execute the oath or declaration if: (1) the application does not seek to enlarge the scope of the claims of the original patent; or (2) the application for the original patent was filed under 37 CFR 1.46 by the assignee of the entire interest. A substitute statement under 37 CFR 1.64 in lieu of an oath or declaration may be submitted in the circumstances provided for in 35 U.S.C. 115(d) and 37 CFR 1.64.

The applicant needs to satisfy supplemental fees problems indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

 A surcharge (for late submission of the basic filing fee, search fee, examination fee or inventor's oath or declaration) as set forth in 37 CFR 1.16(f) of \$ 140 for an undiscounted entity, must be submitted.

### SUMMARY OF FEES DUE:

Total fee(s) required within TWO MONTHS from the date of this Notice is \$ 140 for an undiscounted entity •\$ 140 Surcharge.

GOOGLE EX. 1008 - 00192 Google v. Philips Replies must be received in the USPTO within the set time period or must include a proper Certificate of Mailing or Transmission under 37 CFR 1.8 with a mailing or transmission date within the set time period. For more information and a suggested format, see Form PTO/SB/92 and MPEP 512.

Replies should be mailed to:

Mail Stop Missing Parts Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web. https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or visit our website at <a href="http://www.uspto.gov/ebc.">http://www.uspto.gov/ebc.</a>

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

/klnelson/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

page 2 of 2

GOOGLE EX. 1008 - 00193 Google v. Philips

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Atty. Docket No. Matthew J. Bickerton 2011P00413US01 Serial No.: 13/955,345 Confirmation No. 6652 Filed: 07/31/2013 Customer No. 24737 Title: TEXT ENTRY METHOD AND DEVICE THEREFOR

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

## RESPONSE TO NOTICE TO FILE MISSING PARTS OF REISSUE APPLICATION

Sir:

In response to the NOTICE TO FILE MISSING PARTS OF REISSUE APPLICATION mailed on September 3, 2013, enclosed is a Declaration, properly signed by the Assignee and referring to the above case by its Serial Number and filing date, in compliance with 37 CFR 1.1369a). Accordingly, the above-identified patent application is now complete.

Please charge Deposit Account No. 14-1270 in the amount of \$140.00 for the surcharge for filing the Declaration on a date later than the filing date of the application, as set forth in 37 CFR 1.16(f).

Respectfully submitted,

By /Michael E. Belk/ Michael E. Belk, #33,357 Attorney (914) 333-9643

> GOOGLE EX. 1008 - 00194 Google v. Philips

Document Description: Reissue Declaration Filed In Accordance With MPEP 1414

Under the Paperwork Reduction Act of 1995, no persons are required to respond	Approved for use through 08/31/2013. OMB 0651-00: U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERC to a collection of information unless it displays a valid OMB control number
REISSUE APPLICATION DECLARATION BY THE ASSIGN	Docket Number (optional)
hereby declare that:	20011 004100001
The residence and mailing address of the inventor or joint inventors	are stated below.
am authorized to act on behalf of the following assignee:	ike Philips Electronics N.V.
The entire title to the patent identified below is vested in said assign	ee.
nventor Matthew J. Bickerton	
Residence: City State	Country
etchingley	GB
failing Address	
ye Copse Cottage	
ity State Zip	Country
etchingley RH1	4NE GB
Additional Inventors are named on separately numbered sh	eets attached hereto.
Patent Number 6,885,318 Dat	e of Patent Issued April 26, 2005
believe said inventor(s) to be the original inventor or original joint in claimed in said patent, for which a reissue patent is sought on the in	ventors of the subject matter which is described and vention titled:
TEXT ENTRY METHOD AND DEVICE THEREFOR	
ne specification of which	
is attached hereto.	
✓ was filed on 07/31/2013 as reis	ssue application number
he above-identified application was made or authorized to be made	by me.
hereby acknowledge that any willful false statement made in this d r imprisonment of not more than five (5) years, or both.	eclaration is punishable under 18 U.S.C. 1001 by fine
I believe the original patent to be wholly or partly inoperative or inva (Check all boxes that apply.)	lid, for the reasons described below.
by reason of a defective specification or drawing.	
✓ by reason of the patentee claiming more or less than he had	the right to claim in the patent.
by reason of other errors.	
[Page 1 of 2	1

This collection of information is required by 37 CFR 1.175. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/AIA/06 (06-12)

PTO/AIA/06 (06-12) Approved for use through 08/31/2013. OMB 0651-0033

Under the Par	perwork Reduction Act of 1995, no persons are requ	ired to res	U.S. Paten pond to a collection	t and Trademark Con of information un	Office; U.S. Di ness it displa	EPARTMENT OF COMMERCE ys a valid OMB control number.
REISSUE	APPLICATION DECLARATION BY	THE A	SSIGNEE	Docket N	umber (Op	otional) 2001P00413U
	for upon which reissue is based is descript in that the application seeks to broaden m					ecked:
	e patent is caused by the patentee of attached sheet)	claiming	more than h	ne had a right	to claim	in the patent.
	[Attach add	litional sl	heets, if neede	ed.]		
The applica	tion for the original patent was filed u	under 37	CFR 1.46 by	the assignee	of the en	tire interest.
I hereby appoint Practitione OR	: ers associated with Customer Number:		2473	7		μ
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	er(s) named below:					
	Name			Registra	ation Numb	ber
	ey(s) or agent(s) to prosecute the applic nd Trademark Office connected therewith		entified above,	and to transac	t all busin	ess in the United
Correspondence	Address: Direct all communications abo	out the a	pplication to:			
The addre	ss associated with Customer Number:		24737			
Firm or Individual Name						
Address						
City		State			Zip	
Country			1			
Telephone			Email			
contribute to ide numbers (other the USPTO to s the USPTO, pet them to the US publication of th or issuance of a application is m	cant is cautioned to avoid submitting pe entity theft. Personal information such than a check or credit card authorization support a petition or an application. If the titioners/applicants should consider reda PTO. Petitioner/applicant is advised to e application (unless a non-publication r a patent. Furthermore, the record from eferenced in a published application of rms PTO-2038 submitted for payment p e.	n as soc form PT nis type acting suc hat the equest in an aba or an is	formation in o ial security n rO-2038 subm of personal in ch personal in record of a p n compliance ndoned applie sued patent	umbers, bank nitted for payme formation is in formation from atent application with 37 CFR 1 cation may als (see 37 CFR	account r ent purpos cluded in o the docur on is avail .213(a) is o be avail 1.14).	numbers, or credit card ses) is never required by documents submitted to ments before submitting lable to the public after made in the application) able to the public if the Checks and credit card
	hael E. Marion/			Date (Optiona	al) Septe	mber 4, 2013
		Michae	E. Marion			
Address of Assig	P.O. Box 3001, Briarcliff Manor	, NY 10	510			

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## Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
- A record from this system of records may be disclosed, as a routine use, in the course of
  presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to
  opposing counsel in the course of settlement negotiations.
- A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

## ADDITIONAL STATEMENT OF ERROR UPON WHICH REISSUE IS BASED

The patentee believes the original patent to be wholly or partly inoperative or invalid by reason of the patentee claiming more than the patentee had the right to claim in the patent. Specifically, the error in the patent is caused by the omission of a narrower claim from the patent that renders the patent partly inoperative by failing to protect the disclosed invention to the full extent allowed by law.

The Patentee respectfully asserts that the error is corrected by an amendment that adds at least one dependent claim, for example claim 8, which protects the disclosed invention in accordance with the specification of the Patent, thus improving on the state of the art. Previously the patentee had neglected, without deceptive intent, to protect this disclosed invention in accordance with the specification of the Patent.

No new matter is added by this amendment in this reissue application. All errors in the patent being corrected in the present reissue application up to the time of filing this oath/declaration, that are not covered by a prior oath/declaration submitted in this application, arose without any deceptive intention on the part of the patentee.

GOOGLE EX. 1008 - 00198 Google v. Philips

Electronic Pater	nt Apj	olication Fe	e Transmi	ittal			
Application Number:	13	955345					
Filing Date:	31	-Jul-2013					
Title of Invention:	TE	XT ENTRY METHOD	AND DEVICE TH	IEREFOR			
First Named Inventor/Applicant Name:	Ma	tthew J. Bickerton					
Filer:	Mi	Michael E. Belk/Elissa DeLuccy					
Attorney Docket Number:	20	01P00413US01					
Filed as Large Entity							
Utility under 35 USC 111(a) Filing Fees							
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)		
Basic Filing:							
Pages:							
Claims:							
Miscellaneous-Filing:							
Late Filing Fee for Oath or Declaration		1051	1	140	140		
Petition:							
Patent-Appeals-and-Interference:							
Post-Allowance-and-Post-Issuance:							
Extension-of-Time:							
			G	OOGLE EX. 1	008 - 00199		

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
	Tot	al in USD (	\$)	140

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Electronic A	Acknowledgement Receipt
EFS ID:	16755150
Application Number:	13955345
International Application Number:	
Confirmation Number:	6652
Title of Invention:	TEXT ENTRY METHOD AND DEVICE THEREFOR
First Named Inventor/Applicant Name:	Matthew J. Bickerton
Customer Number:	24737
Filer:	Michael E. Belk/Elissa DeLuccy
Filer Authorized By:	Michael E. Belk
Attorney Docket Number:	2001P00413US01
Receipt Date:	04-SEP-2013
Filing Date:	31-JUL-2013
Time Stamp:	08:19:45
Application Type:	Utility under 35 USC 111(a)

# Payment information:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest GOOGLE E	Multi Part /.zip	Pages (if appl.)			
File Listing:								
Authorized User								
Deposit Account	1	141270	141270					
RAM confirmation	on Number	8684						
Payment was su	ccessfully received in RAM	\$140						
Payment Type		Deposit Account	Deposit Account					
Submitted with	Payment	yes						

Google v. Philips

1	Response to Pre-Exam Sequence Notice	2001P00413US01_Response_M	34115	no	1
19		P.pdf	27b442a4dc56af40207f1db8d3651b83ac4 7fc1d		
Warnings:					
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2	Reissue dec filed in accordance with	2001P00413US01_New_Declar	401823	no	4
	MPEP 1414	ation.pdf	e13778482c2ec1b150d62f34d2cd0602edf 6e272	.145	
Warnings:					
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3	Fee Worksheet (SB06)	fee-info.pdf	30121	no	2
			6a2eddd4132045e54cb24162c1b353896e 15604		
Warnings:					
Information					
		Total Files Size (in bytes)	46	6059	
characterize	vledgement Receipt evidences receipt ed by the applicant, and including pag s described in MPEP 503.				
lf a new app 1.53(b)-(d) a	ntions Under 35 U.S.C. <u>111</u> lication is being filed and the applicat and MPEP 506), a Filing Receipt (37 CF gement Receipt will establish the filing	R 1.54) will be issued in due			
If a timely su U.S.C. 371 at	ge of an International Application un Ibmission to enter the national stage nd other applicable requirements a Fo ge submission under 35 U.S.C. 371 wi	of an international applicati orm PCT/DO/EO/903 indicati	ng acceptance of the a	application	
If a new inte an internation and of the In	tional Application Filed with the USP rnational application is being filed an onal filing date (see PCT Article 11 and ternational Filing Date (Form PCT/RC urity, and the date shown on this Ack ion.	d the international applicati d MPEP 1810), a Notification 0/105) will be issued in due co	of the International A ourse, subject to press	pplication criptions co	Number ncerning

	PATER	NT APPL		ON FEE DE		ION RECOR	D		ation or Docket Nu 55,345	mber
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	FOR	NUMBE	R FILE		ER EXTRA	RATE(\$)	FEE(\$)	7	RATE(\$)	FEE(\$)
	SIC FEE FR 1.16(a), (b), or (c))	N	I/A		N/A	N/A		1	N/A	280
SE/	ARCH FEE FR 1.15(k), (i), or (m))	N	I/A		N/A	N/A		1	N/A	600
X	MINATION FEE FR 1.16(o), (p), or (q))	N	I/A	1	N/A	N/A		1	N/A	2160
101	AL CLAIMS	16	minus	20- '				OR	× 80 -	0.00
ND	EPENDENT CLAIMS	3	minus	3				1	× 420 -	0.00
37	CFR 1.16(s))	sheets of (\$310 (\$15 50 sheets 41(a)(1)(G	paper, th 5 for sm or fraction ) and 37	and drawings e e application si all entity) for ea on thereof. See ' CFR 1.16(s).	ize fee due is ach additional		×			0.00
								4	L	0.00
lft	he difference in colun	nn 1 is less th	an zero,	enter "0" in colu	mn 2.	TOTAL		]	TOTAL	3040
AIN		REMAINING AFTER MENDMENT		NUMBER PREVIOUSLY PAID FOR	PRESENT	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONA FEE(\$)
Z	Total •	MENDMENT	Minus	PAID FOR	-	× -		OR		
AMENUMENI	(37 CFR 1.16(i)) Independent (37 CFR 1.16(h))		Minus			x -		OR	x -	
	Application Size Fee (3	7 CFR 1,16(s))	L							
	FIRST PRESENTATIO			DENT CLAIM (37 (	CEB 1.16(ii)			OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
_		(Column 1)		(Column 2)	(Column 3)					
1 1 8		CLAIMS REMAINING AFTER MENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
MENI	Total (37 CFR 1.16(i))		Minus		-	x -		OR	× -	
AMENUN	Independent (37 CFR 1.16(h))		Minus			x -		OR	x -	
AME	Application Size Fee (3	7 CFR 1.16(s))						1		
	FIRST PRESENTATIO	N OF MULTIPL	E DEPEN	DENT CLAIM (37 C	CFR 1.16())			OR		
_						TOTAL		OR	TOTAL	
	If the entry in colum If the "Highest Num If the "Highest Numb The "Highest Number f	ber Previousl er Previously I	y Paid Fo Paid For*	or" IN THIS SPA	CE is less than 2 s less than 3, enter	0, enter "20". r *3*.	in column 1.	1	ADD'L FEE	

				United States Pa Address: COMMISSIO P.O. Box 1450	ginia 22313-1450
APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY DOCKET NO	TOT CLAIMS IND CLAIMS
13/955,345	07/31/2013	2681	3180	2001P00413US01	16 3
				C	ONFIRMATION NO. 665
4737				UPDATED	FILING RECEIPT
.O. BOX 300			& STANDARDS		
					Date Mailed: 01/08/2014

Receipt is acknowledged of this reissue patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections

Inventor(s)

Matthew J. Bickerton, Bletchingley, UNITED KINGDOM;

Applicant(s)

Matthew J. Bickerton, Bletchingley, UNITED KINGDOM;

Assignment For Published Patent Application

KONINKLIJKE PHILIPS ELECTRONICS N.V., EINDHOVEN, NL

Power of Attorney: The patent practitioners associated with Customer Number 24737

Domestic Priority data as claimed by applicant

2

This application is a REI of 10/156,409 05/28/2002 PAT 6885318

Foreign Applications (You may be eligible to benefit from the Patent Prosecution Highway program at the USPTO. Please see http://www.uspto.gov for more information.) UNITED KINGDOM 0116083.7 06/30/2001 No Access Code Provided

If Required, Foreign Filing License Granted: 08/30/2013

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is US 13/955,345

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

Early Publication Request: No

**GOOGLE EX. 1008 - 00204 Google v. Philips**  Title

## TEXT ENTRY METHOD AND DEVICE THEREFOR

#### **Preliminary Class**

341

#### Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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GOOGLE EX. 1008 - 00205 Google v. Philips

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#### UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

#### 6885318

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#### April 26, 2005

#### Text entry method and device therefor

**INVENTOR:** Bickerton, Matthew J. - Bletchingley, United Kingdom of Great Britain and Northern Ireland (GB), United Kingdom of Great Britain and Northern Ireland ()

APPL-NO: 156409 (10)

FILED-DATE: May 28, 2002

GRANTED-DATE: April 26, 2005

PRIORITY: June 30, 2001 - 0116083, United Kingdom of Great Britain and Northern Ireland (GB)

#### ASSIGNEE-PRE-ISSUE:

May 28, 2002 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., KONINKLIJKE PHILIPS ELECTRONICS N.V. NL-5621 BA EINDHOVEN, Reel and Frame Number: 012954/0107 May 28, 2002 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., KONINKLIJKE PHILIPS ELECTRONICS N.V. GROENEWOUDSEWEG 1NL-5621 BA EINDHOVEN, (1), Reel and Frame Number: 012954/0107

#### ASSIGNEE-AT-ISSUE:

Koninklijke Philips Electronics N.V., Eindhoven, Kingdom of the Netherlands (NL), Foreign company or corporation (03)

LEGAL-REP: Thorne, Gregory L.

PUB-TYPE: April 26, 2005 - Patent with a pre-grant publication (B2)

PUB-COUNTRY: United States of America (US)

#### LEGAL-STATUS:

May 28, 2002 - ASSIGNMENT July 9, 2008 - FEE PAYMENT

https://www.lexis.com/research/retrieve?\_m=be5d357e6f57cac54c801e8791b73653&csvc=bl&cform=se... 1/15/2014 GOOGLE EX. 1008 - 00207 Google v. Philips October 19, 2012 - FEE PAYMENT July 9, 2008 - Payment of Maintenance Fee, 4th Year, Large Entity. October 19, 2012 - Payment of Maintenance Fee, 8th Year, Large Entity.

FILING-LANG: English (EN) (ENG)

PUB-LANG: English (EN) (ENG)

**REL-DATA:** 

Prior Publication 20030025616, February 6, 2003, Patent Application Publication (A1)

US-MAIN-CL: 341#22

US-ADDL-CL: 345#168, 379#368, 400#486

CL: 341, 345, 379, 400

SEARCH-FLD: 341#22, 379#368, 379#906, 400#477, 400#486, 345#168

IPC-MAIN-CL: [7] H03K 017#94

IPC-MAIN-CL: [8] G06F 003#02 (20060101) Advanced Inventive 20051220 (A F I R M JP)

IPC-ADDL-CL: [7] H03M 011#00

IPC-ADDL-CL: [8] G06F 003#23 (20060101) Advanced Inventive 20051008 (A I R M EP)

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IPC-ADDL-CL: [8] H04M 001#725 (20060101) Advanced Inventive 20051220 (A L I R M JP)

IPC-ADDL-CL: [8] H04Q 007#38 (20060101) Advanced Inventive 20051220 (A L I R M JP)

PRIM-EXMR: Edwards, Jr., Timothy

#### REF-CITED:

3967273, June 29, 1976, Knowlton, United States of America (US) 4737980, April 12, 1988, Curtin et al., United States of America (US) 5128672, July 7, 1992, Kaehler, United States of America (US) 5818437, October 6, 1998, Grover et al., United States of America (US) 5952942, September 14, 1999, Balakrishnan et al., United States of America (US) 6016142, January 18, 2000, Chang et al., United States of America (US) 6169538, January 2, 2001, Nowlan et al., United States of America (US) 6359572, March 19, 2002, Vale, United States of America (US) 6473006, October 29, 2002, Yu et al., United States of America (US) 02014996, February, 2002, World Intellectual Property Organization (WIPO) (WO)

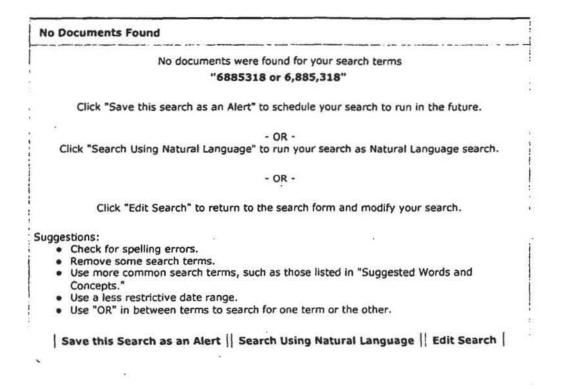
#### **NON-PATENT LITERATURE:**

Patent Abstracts of Japan, Ono Katsuyasu: "Adjacent Character Display Keyboard," Publication No. 07200120, Apr. 8, 1995, Application No. 05355185, Dec. 28, 1993.

CORE TERMS: keypad, display, secondary, user, displayed, default, input, touchscreen, mobile, phone,

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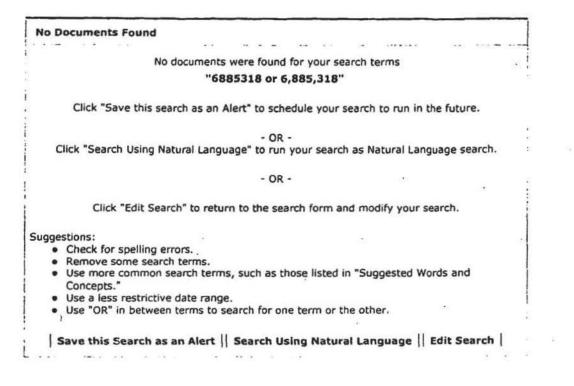
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Artificial organs: learning to live with risk. Technology Review November 1, 1988

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November 1, 1988

SECTION: Pg. p34(7) Vol. V91 No. N8 ISSN: 0040-1692

ACC-NO: 6885318

LENGTH: 2857 words

HEADLINE: Artificial organs: learning to live with risk.

BYLINE: Galletti, Pierre M.

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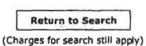
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Inventor Matthew J. Bickerton	Citizenship GB
Residence/Mailing Address Tye Copse Cottage, Bletchingley, GB RH14NE	
Inventor	Citizenship
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Additional Inventors are named on separately numbered	
Patent Number 6,885,318	Date of Patent Issued April 26, 2005
I believe said inventor(s) to be the original and first inventor(s) of patent, for which a reissue patent is sought on the invention entitient of the invention entitient of the invention entitient of the invention entitient of the inventor of the invento	
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[Page 1 of 2] This collection of information is required by 37 CFR 1.175. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 30 minutes to complete, including gethering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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All errors corrected in this reissue application ar	additional sheets, if		on the part of	the applicant
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[Page 2 of 2]

# ADDITIONAL STATEMENT OF ERROR UPON WHICH REISSUE IS BASED

The patentee believes the original Patent to be wholly or partly inoperative or invalid by reason of the patentee claiming more than the patentee had the right to claim in the Patent. Specifically, the error in the Patent is caused by the omission of a narrower claim from the Patent that renders the Patent partly inoperative by failing to protect the disclosed invention to the full extent allowed by law.

The patentee respectfully asserts that the error is corrected by an amendment that adds at least one dependent claim, for example claim 8, which protects the disclosed invention in accordance with the specification of the Patent, thus improving on the state of the art. For example, claim 8 is added to recite that "the means for switching to a second state comprises a means for detecting a sliding across the keypad from the first key selection to the second key selection." Support for the subject matter of the claim is provided by the Patent, in the accompanying description for example contained in col. 3, line 66 through col. 4, line 5. Previously the patentee had neglected, without deceptive intent, to protect this disclosed invention in accordance with the specification of the Patent.

Further, the patentee has elected to amend claim 1 for example to recite that (e.g., see, Patent, FIGs. 1-5 and the accompanying description contained in col. 5, line 65 through col. 6, line 19, changes to the claim element indicated with underlining showing additions) "in the default state, returning the primary character as an input character in response to selection of the at least one key for a period shorter than a predetermined time period; switching to a second state after detecting a first key selection of the at least one key for a period shorter than a predetermined time period; switching to a second state after detecting a first key selection of the at least one key for a period longer than a predetermined time period; in the second state, displaying each of the secondary characters associated ..." Patentee has also elected to amend claim 1 for example for better conformance to U.S. practice such as clarifying antecedence language where for example, "selecting for input the secondary character ..." is clarified as "selecting for the input character the secondary character ..."

No new matter is added by this amendment in this reissue application. All errors in the Patent being corrected in the present reissue application up to the time of filing this oath/declaration that are not covered by a prior oath/declaration submitted in this application, arose without any deceptive intention on the part of the patentee.

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EFS ID:	18380310
Application Number:	13955345
International Application Number:	
Confirmation Number:	6652
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First Named Inventor/Applicant Name:	Matthew J. Bickerton
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Attorney Docket Number:	2001P00413US01
Receipt Date:	05-MAR-2014
Filing Date:	31-JUL-2013
Time Stamp:	16:51:49
Application Type:	Utility under 35 USC 111(a)

# Payment information:

Submitted with	n Payment	no			
File Listing					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Reissue dec filed in accordance with	2001P00413US01_Declaration.	505776		3
·	MPEP 1414	pdf	c6c60aab3961372ad37883aac3282154d19 6d329	Part /.zip	
Warnings:					
Information:					

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

#### New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

#### National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

#### New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Reply in Reissue Application No. 13/955,345

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

MATTHEW J. BICKERTON

Atty. Docket: 2001PF00413US01

Confirmation No.: 6652

Original Patent No: 6,885,318

Original Issue date: APRIL 26, 2005

Serial No.: 13/955,345

Filed: JULY 31, 2013

Group Art Unit: 2681 Examiner: N/A

# Title: TEXT ENTRY METHOD AND DEVICE THEREFOR

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

## REPLY

Sir:

Please consider the remarks in the Application as follows:

## **REMARKS/ARGUMENTS**

Claims 1-16 are pending in the Application.

Please discard the declaration previously filed today and substitute the declaration submitted herewith. The declaration submitted herewith includes the updated USPTO Reissue Application Declaration by the Assignee Form PTO/AIA/06 in place of USPTO Form PTO/SB/52 previously filed.

It is respectfully submitted that the reissue oath/declaration is proper and an indication to that effect is respectfully requested.

A diligent and sincere effort to place this Patent back in condition for immediate allowance is made herein and notice to this effect is earnestly solicited.

Respectfully submitted,

By /Gregory L. Thorne/

Gregory L. Thorne, Reg. 39,398 Attorney for Applicant(s)

# THORNE & HALAJIAN, LLP

111 West Main Street Bay Shore, NY 11706 Tel: (631) 665-5139 Fax: (631) 665-5101

2001PF00413US01\_reissue\_reply\_03\_05\_14.doc

2

Document Description: Reissue Declaration Filed In Accordance With MPEP 1414

REISSUE APPLICATION D	DECLARATION BY THE ASSIG	NEE Docket Number	
		2001P00413	3US01
I hereby declare that	,		
The residence and mailing add	tress of the inventor or joint inventor	s are stated below.	
	KONIN	KI LIKE PHILIPS ELE	STRONICS N.V.
I am authorized to act on beha	If of the following assignee: KONIN		
The entire title to the natent ide	entified below is vested in said assig	100	5#-1
The chille use to the patent de	situned below is vested in said assig	1100.	
Inventor Matthew J. Bickerto	n	····	
Residence: City	State	C	ountry
Bletchingley		G	в
Mailing Address		·	
Tye Copse Cottage			
City	State	D	Country
Bletchingley	RH	114NE	GB
Additional Inventors ar	e named on separately numbered s		
Patent Number 6,885,318	D	ate of Patent Issued Apri	1 26, 2005
	the original inventor or original joint h a reissue patent is sought on the i		atter which is described and
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1			
TEXT ENTRY METHOD A	ND DEVICE THEREFOR		
TEXT ENTRY METHOD A	ND DEVICE THEREFOR		
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the specification of which	ND DEVICE THEREFOR		
the specification of which			13/955.345
the specification of which is attached hereto. was filed on July 31, 2	2013 as re	eissue application number	13/955,345
the specification of which is attached hereto. was filed on July 31, 2			13/955,345
the specification of which is attached hereto. was filed on July 31, 2 The above-identified application I hereby acknowledge that any	2013 as re n was made or authorized to be made willful false statement made in this	le by me.	
the specification of which is attached hereto. was filed on July 31, 2 The above-identified application I hereby acknowledge that any or imprisonment of not more that	2013 as re n was made or authorized to be made willful false statement made in this	le by me. declaration is punishable	under 18 U.S.C. 1001 by fine
the specification of which is attached hereto. was filed on July 31, 2 The above-identified application I hereby acknowledge that any or imprisonment of not more that I believe the original patent to (Check all boxes that apply.)	2013 as re n was made or authorized to be made willful false statement made in this an five (5) years, or both.	le by me. declaration is punishable	under 18 U.S.C. 1001 by fine
the specification of which is attached hereto. was filed on July 31, 2 the above-identified application I hereby acknowledge that any or imprisonment of not more that I believe the original patent to (Check all boxes that apply.) by reason of a defective	2013 as re n was made or authorized to be made willful false statement made in this an five (5) years, or both. be wholly or partly inoperative or inv	le by me. declaration is punishable valid, for the reasons desc	under 18 U.S.C. 1001 by fine

This collection of information is required by 37 CFR 1.175. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/AIA/06 (06-12)

. . . . .

PTO/AIA/06 (06-12) Approved for use through 08/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number Docket Number (Optional) 2001P00413 REISSUE APPLICATION DECLARATION BY THE ASSIGNEE At least one error upon which reissue is based is described below. If the reissue is a broadening reissue, a claim that the application seeks to broaden must be identified and the box below must be checked: The error in the patent is caused by the patentee claiming more than he had a right to claim in the patent. (continued on attached sheet) [Attach additional sheets, if needed.] The application for the original patent was filed under 37 CFR 1.46 by the assignee of the entire interest. I hereby appoint: Practitioners associated with Customer Number: 24737 OR Practitioner(s) named below: **Registration Number** Name as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith. Correspondence Address: Direct all communications about the application to: The address associated with Customer Number: 11 24737 OR Firm or Individual Name Address City Zip State Country Telephone Email WARNING: Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available. Signature /Michael E. Marion/ Date (Optional) March 5, 2014 Full name of person signing (given name, family name) Michael E. Marion Address of Assignee P.O. Box 3001, Briarcliff Manor, NY 10510

## ADDITIONAL STATEMENT OF ERROR UPON WHICH REISSUE IS BASED

The patentee believes the original Patent to be wholly or partly inoperative or invalid by reason of the patentee claiming more than the patentee had the right to claim in the Patent. Specifically, the error in the Patent is caused by the omission of a narrower claim from the Patent that renders the Patent partly inoperative by failing to protect the disclosed invention to the full extent allowed by law.

The patentee respectfully asserts that the error is corrected by an amendment that adds at least one dependent claim, for example claim 8, which protects the disclosed invention in accordance with the specification of the Patent, thus improving on the state of the art. For example, claim 8 is added to recite that "the means for switching to a second state comprises a means for detecting a sliding across the keypad from the first key selection to the second key selection." Support for the subject matter of the claim is provided by the Patent, in the accompanying description for example contained in col. 3, line 66 through col. 4, line 5. Previously the patentee had neglected, without deceptive intent, to protect this disclosed invention in accordance with the specification of the Patent.

Further, the patentee has elected to amend claim 1 for example to recite that (e.g., see, Patent, FIGs. 1-5 and the accompanying description contained in col. 5, line 65 through col. 6, line 19, changes to the claim element indicated with underlining showing additions) "in the default state, returning the primary character as an input character in response to selection of the at least one key for a period shorter than a predetermined time period; switching to a second state after detecting a first key selection of the at least one key for a period longer than a predetermined time period; in the second state, displaying each of the secondary characters associated ..." Patentee has also elected to amend claim 1 for example for better conformance to U.S. practice such as clarifying antecedence language where for example, "selecting for input the secondary character ..."

No new matter is added by this amendment in this reissue application. All errors in the Patent being corrected in the present reissue application up to the time of filing this oath/declaration that are not covered by a prior oath/declaration submitted in this application, arose without any deceptive intention on the part of the patentee.

Electronic A	Acknowledgement Receipt
EFS ID:	18382342
Application Number:	13955345
International Application Number:	
Confirmation Number:	6652
Title of Invention:	TEXT ENTRY METHOD AND DEVICE THEREFOR
First Named Inventor/Applicant Name:	Matthew J. Bickerton
Customer Number:	24737
Filer:	Gregory L. Thorne
Filer Authorized By:	
Attorney Docket Number:	2001P00413US01
Receipt Date:	05-MAR-2014
Filing Date:	31-JUL-2013
Time Stamp:	18:28:25
Application Type:	Utility under 35 USC 111(a)

# Payment information:

Submitted with	Payment	no	0		
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
,	Miscellaneous Incoming Letter	2001 PF00413US01_reissue_rep	40625		2
	miscenaricous meetining letter	ly_03_05_14.pdf	917999628892c72758819daeae08705234f e72d5		•
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2	Oath or Declaration filed	2001PF00413US01_reissue_de	175820	no	3

Total Files Size (in bytes):
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216445

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#### New Applications Under 35 U.S.C. 111

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### New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application. UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

# NOTICE OF ALLOWANCE AND FEE(S) DUE

24737 7590 03/12/2014 PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510

WONG, ALBERT KANG

ART UNIT PAPER NUMBER

EXAMINER

2689 DATE MAILED: 03/12/2014

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
13/955,345	07/31/2013	Matthew J. Bickerton	Matthew J. Bickerton 2001P00413US01 665		

TITLE OF INVENTION: TEXT ENTRY METHOD AND DEVICE THEREFOR

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	06/12/2014

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED</u>. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

### HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

# PART B - FEE(S) TRANSMITTAL

## Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

**Commissioner** for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

	michanutia, vii
or Fax	(571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

03/12/2014 PHILIPS INTELLECTUAL PROPERTY & STANDARDS

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BRIARCLIFF MANOR, NY 10510

24737

P.O. BOX 3001

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

## **Certificate of Mailing or Transmission**

Certificate of maning or a rational store I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

itor's name)	(Deposit	
(Signature)	(	
(Date)		01.

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/955,345	07/31/2013	Matthew J. Bickerton	2001P00413US01	6652

TITLE OF INVENTION: TEXT ENTRY METHOD AND DEVICE THEREFOR

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	06/12/2014
EXA	MINER	ART UNIT	CLASS-SUBCLASS			
WONG, AL	BERT KANG	2689	341-022000	Ně – Li		
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<ul> <li>(A) NAME OF ASS</li> <li>Please check the approp</li> <li>ta. The following fee(s)</li> <li>Issue Fee</li> <li>Publication Fee (</li> <li>Advance Order -</li> <li>Change in Entity St</li> </ul>	IGNEE priate assignee category or ) are submitted: No small entity discount p	categories (will not be p 4 ermitted) above)	brinted on the patent) : tb. Payment of Fee(s): (Plea A check is enclosed. Payment by credit card The Director is hereby overpayment, to Depos	Individual Corporations first reapply any prev f. Form PTO-2038 is attact authorized to charge the r it Account Number	RY) on or other private group iously paid issue fee sho thed. equired fee(s), any deficit (enclose an ex	entity Governmen wn above) ency, or credits any tra copy of this form).
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<ul> <li>(A) NAME OF ASS</li> <li>Please check the approp</li> <li>a. The following fee(s)</li> <li>D Issue Fee</li> <li>D Publication Fee (</li> <li>Advance Order -</li> <li>Change in Entity St</li> <li>Applicant certify</li> <li>Applicant asserti</li> <li>Applicant changi</li> </ul>	IGNEE priate assignee category or ) are submitted: No small entity discount p # of Copies atus (from status indicated ing micro entity status. See ng small entity status. See ng to regular undiscounted	categories (will not be p 4 ermitted) above) 2 37 CFR 1.29 37 CFR 1.27 fee status.	brinted on the patent) : b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit carr The Director is hereby overpayment, to Depoin NOTE: Absent a valid cer fee payment in the micro- NOTE: If the application to be a notification of loss NOTE: Checking this box	Individual Corporations first reapply any prevent f. Form PTO-2038 is attact authorized to charge the r it Account Number	RY) on or other private group iously paid issue fee show thed. equired fee(s), any deficin (enclose an ex- Status (see forms PTO/SI accepted at the risk of app ro entity status, checking a nity status. fication of loss of entitlem	entity Governmen wn above) ency, or credits any tra copy of this form). 3/15A and 15B), issue lication abandonment this box will be taken
<ul> <li>(A) NAME OF ASS</li> <li>Please check the appropherent of the propherent of</li></ul>	IGNEE priate assignee category or ) are submitted: No small entity discount p # of Copies atus (from status indicated ing micro entity status. See ng small entity status. See ng to regular undiscounted	categories (will not be p 4 ermitted) above) 37 CFR 1.29 37 CFR 1.27 fee status. ith 37 CFR 1.31 and 1.3	brinted on the patent) : tb. Payment of Fee(s): (Plea A check is enclosed. Payment by credit card The Director is hereby overpayment, to Depoint NOTE: Absent a valid cert fee payment in the micro NOTE: If the application to be a notification of loss NOTE: Checking this box entity status, as applicable 33. See 37 CFR 1.4 for signal	Individual Corporations first reapply any prev f. Form PTO-2038 is attact authorized to charge the r it Account Number tification of Micro Entity entity amount will not be a was previously under micro of entitlement to micro er will be taken to be a notifi- ture requirements and cert	RY) on or other private group iously paid issue fee show thed. equired fee(s), any deficin (enclose an ex- Status (see forms PTO/SI accepted at the risk of app ro entity status, checking a nity status. fication of loss of entitlem	entity Governmen wn above) ency, or credits any tra copy of this form). 3/15A and 15B), issue dication abandonment this box will be taken nent to small or micro

PTOL-85 Part B (10-13) Approved for use through 10/31/2013.

U.S. Patent and Trademark Office, U.S. ARUSEN 09239 MMERCE OMB 0651-0033 **Google v. Philips** 

			UNITED STATES DEPART United States Patent and T Address: COMMISSIONER FC P.O. Box 1450 Alexandria, Virginia 2231 www.uspto.gov	Trademark Office OR PATENTS
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/955,345	07/31/2013	Matthew J. Bickerton	2001P00413US01	6652
24737 75	90 03/12/2014		EXAMI	NER
PHILIPS INTELI	LECTUAL PROPERTY	& STANDARDS	WONG, ALBI	ERT KANG
P.O. BOX 3001 BRIARCLIFF MAI	NOR, NY 10510		ART UNIT	PAPER NUMBER
			2689	

# Determination of Patent Term Extension or Adjustment under 35 U.S.C. 154 (b)

A reissue patent is for "the unexpired part of the term of the original patent." See 35 U.S.C. 251. Accordingly, the above-identified reissue application is not eligible for Patent Term Extension or Adjustment under 35 U.S.C. 154(b).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# **Privacy Act Statement**

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
- A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
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GOOGLE EX. 1008 - 00232 Google v. Philips

Paper No./Mail Date			
of Biological Material 4. Interview Summary (PTO-413),			
3. Examiner's Comment Regarding Requirement for Deposit	7. 🗌 Other	2	
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date</li> </ol>	6. 🛛 Examiner's	Statement of Reasons	for Allowance
Attachment(s) 1. X Notice of References Cited (PTO-892)	5. 🔲 Examiner's a	Amendment/Commen	t
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit of attached Examiner's comment regarding REQUIREMENT F</li> </ol>	BIOLOGICAL MATERIAL mus OR THE DEPOSIT OF BIOLO	t be submitted. Note GICAL MATERIAL.	the
Identifying Indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	the header according to 37 CFF	1.121(d).	
including changes required by the attached Examiner Paper No./Mail Date			
5. CORRECTED DRAWINGS ( as "replacement sheets") mus		- 11- 015	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	MENT of this application.	a reply complying with	the requirements
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* Certified copies not received:			
International Bureau (PCT Rule 17.2(a)).	coments have been received	in this national stage	application nom the
<ol> <li>2. Certified copies of the priority documents hav</li> <li>3. Copies of the certified copies of the priority do</li> </ol>			application from the
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a) 🖾 All b) 🗌 Some *c) 🗋 None of the:			
Certified copies:			
4. Acknowledgment is made of a claim for foreign priority und	ler 35 U.S.C. § 119(a)-(d) or (f	).	
<ol> <li>The allowed claim(s) is/are <u>1-16</u>. As a result of the allowed Highway program at a participating intellectual property of <u>http://www.uspto.gov/patents/init_events/pph/index.isp</u> or s</li> </ol>	ice for the corresponding appl	ication. For more info	
<ol> <li>An election was made by the applicant in response to a re- requirement and election have been incorporated into this a</li> </ol>		during the interview or	n; the restriction
A declaration(s)/affidavit(s) under 37 CFR 1.130(b) wa			
1. This communication is responsive to the application filed 7			
- The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in i) or other appropriate commu RIGHTS. This application is su	this application. If no nication will be mailed	t included I in due course. THIS
Notice of Allowability	ALBERT WONG	2689	File) Status No
Notice of Allowshilling	13/955,345 Examiner	BICKERTO Art Unit	N, MATTHEW J.
	Application No.	Applicant(s	

GOOGLE EX. 1008 - 00233 Google v. Philips Application/Control Number: 13/955,345 Art Unit: 2689

The present application is being examined under the pre-AIA first to invent provisions.
 The application is a reissue of application 10/156,409, Patent 6,885,318, filed May 28, 2002
 which claims foreign priority to UK application 0116083.7, filed June 30, 2001. Claims 1-16 are pending.

2. Claims 1-16 are allowed.

3. The following is an examiner's statement of reasons for allowance: The claims recite an apparatus, a method of operating the apparatus, and a computer program product for executing the method wherein the device displays a default character associated with a key when the key is pressed for a period shorter that a predetermined time and when the key is pressed for a longer period secondary characters are displayed which are selected by a second key pressing, wherein the keyboard returns to the default state after the second key pressing. Such a combination is not taught, suggested, or made obvious by the prior art of record..

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALBERT WONG whose telephone number is (571)272-3057.
 The examiner can normally be reached on M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer Mehmood can be reached on 571-272-2976. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 13/955,345 Art Unit: 2689

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> /ALBERT WONG/ Primary Examiner, Art Unit 2689

February 2, 2014

Notice of References Cited	Application/Control No. 13/955,345	Applicant(s)/ Reexamination BICKERTON	
Notice of References Cited	Examiner	Art Unit	
	ALBERT WONG	2689	Page 1 of 1

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-4,099,246	07-1978	Osborne et al.	708/146
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	E	US-			
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# FOREIGN PATENT DOCUMENTS

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# NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)	
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\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 20140202

GOOGLE EX. 1008 - 00236 Google v. Philips

Issue Classification	Application/Control No. 13955345	Applicant(s)/Patent Under Reexamination BICKERTON, MATTHEW J.
	Examiner ALBERT WONG	Art Unit 2689

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NONE		Total Claims Allowed:			
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(Primary Examiner)	(Date)	1	1		

U.S. Patent and Trademark Office

Part of Paper No. 20140202

Issue Classification	Application/Control No. 13955345	Applicant(s)/Patent Under Reexamination BICKERTON, MATTHEW J.
	Examiner ALBERT WONG	Art Unit 2689

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/ALBERT WONG/ Primary Examiner.Art Unit 2689	02/02/2014	O.G. Print Claim(s)	O.G. Print Figure		
(Primary Examiner)	(Date)	1	1		

U.S. Patent and Trademark Office

Part of Paper No. 20140202

Issue Classification	Application/Control No. 13955345	Applicant(s)/Patent Under Reexamination BICKERTON, MATTHEW J.
	Examiner ALBERT WONG	Art Unit 2689

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/ALBERT WONG/ Primary Examiner.Art Unit 2689	02/02/2014	O.G. Print Claim(s)	O.G. Print Figure		
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U.S. Patent and Trademark Office

Part of Paper No. 20140202



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### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Bor 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

# **BIB DATA SHEET**

# **CONFIRMATION NO. 6652**

1.17-190.070.070-19.19.5-000.2	SERIAL NUMBER FILING OF 13/955,345 07/31/2 RUL		E 013		CLASS 341		GROUP ART UNIT 2689		ATTORNEY DOCKE NO. 2001P00413US01	
APPLICANTS	5								5 - 72 1	
INVENTORS Matthew J	. Bicker	ton, Bletchir	igley, UNI	TED K	INGDOM;		<u>)</u> .			ά.
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** FOREIGN AP		M 0116083.								
** IF REQUIRED 08/30/201		EIGN FILING	LICENS	E GRA	NTED **					
Foreign Priority claimed Yes No STATE OR SHEETS TOTAL INDEPENDENT 35 USC 119(a-d) conditions met Yes No Met after Allowance										
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number Filing Date				
	First Named Inventor Matth		ew J. Bickerton		
	Art Unit				
	Examiner Name				
	Attorney Docket Numb	er	2001P00413US01		

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Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	det Issue Date Name of Patentee or Appl of cited Document		Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear		
	1	5128672		1992-07-07	KAEHLER			
	2	6009444		1999-12-28	CHEN			
	3	6271835	B1	2001-08-07	HOEKSMA			
	4	3967273		1976-06-29	KNOWLTON			
	5	4737980		1988-04-12	CURTIN ET AL			
	6	4999795		1991-03-12	LAPEYRE			
	7	5124940		1991-06-23	LAPEYRE			
	8	5818437		1998-10-06	GROVER ET AL			

EFS Web 2.1.17 ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.W./ GOOGLE EX. 1008 - 00241 Google v. Philips

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number			
	Filing Date			
	First Named Inventor	Matth	ew J. Bickerton	
	Art Unit			
(Not for submission under 57 CPK 1.55)	Examiner Name			
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	9	5952952		1999-09	-14	CHOI ET AL				
	10	6016538		2000-01-	-18	GUTTAG ET	AL .			
	11	6169538	B1	2001-01-	-02	NOWLAN ET	AL			
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Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup>		Kind Code4	Publication Date	Name of Patentee Applicant of cited Document		Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T5

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# INFORMATION DISCLOSURE Application Number Filing Date Filing Date STATEMENT BY APPLICANT First Named Inventor (Not for submission under 37 CFR 1.99) Art Unit Examiner Name Attorney Docket Number 2001P00413US01

	2	07200120	JP	A	1995-08-04	KATSUYASU		
	3	4127310	JP		1992-04-28	UEDA		
	4	04999794	JP	B2	2012-08-15	ARAI		
	5	0689388	EP	A1	1999-07-01	LU		
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Standard ST <sup>4</sup> Kind of doo	r.3). <sup>3</sup> F cument	for Japanese patent	documents, the indicated or	tion of the yea	r of the reign of the	er office that issued the docume e Emperor must precede the sen ndard ST.16 if possible. <sup>5</sup> Appli	ial number of the patent doc	ument

EFS Web 2.1.17 ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.W./ GOOGLE EX. 1008 - 00243 Google v. Philips

	Application Number			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Filing Date			
	First Named Inventor	Matth	new J. Bickerton	
	Art Unit			
(Notion submission under 57 OFK 1.55)	Examiner Name			
	Attorney Docket Number	er	2001P00413US01	

-		OFBTIFICATION	CTATEMENT						
	CERTIFICATION STATEMENT								
Plea	That each item of information contained in the information disclosure statement was first sited in any communication								
	That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).								
OR	OR								
	That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).								
	See attached ce	rtification statement.							
	Fee set forth in 3	37 CFR 1.17 (p) has been submitted herewith	ı.						
X	None								
SIGNATURE A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.									
Sign	nature	/Michael E. Belk/	Date (YYYY-MM-DD)	2013-07-25					
Nan	ne/Print	Michael E. Belk	Registration Number	33,357					
publ 1.14 appl requ Pate									

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination BICKERTON, MATTHEW J.
	Examiner ALBERT WONG	Art Unit 2689

CPC- SEARCI	HED	
Symbol	Date	Examiner
h03k 17/94; g06f 15/02, 3/0238	2/3/14	AKW

CPC COMBINATION SET	IS - SEARCHED	
Symbol	Date	Examine

US CLASSIFICATION SEARCHED						
Class	Subclass	Date	Examiner			
341 345 379 400	20, 22	2/3/14	AKW			
345	168					
379	368					
400	486					
708	131, 145, 146					

SEARCH NOTES					
Search Notes	Date	Examiner			
EAST					
search terms: keyboard, multi-function, keys, defautl, press, duration, time, timer, phone, menu	2/3/14	AKW			

	INTERFERENCE SEARCH	1	
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

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Application Number	13955345	Filing Date	2013-07-31	Docket Number (if applicable)	2001P00413US01	Art Unit	2689
First Named Inventor	Matthew J. Bick	kerton		Examiner Name	Albert Kang Wong		
Request for C	ontinued Examin	nation (RCE)	practice under 37		above-identified applicat oply to any utility or plant ap WWW.USPTO.GOV		prior to June 8
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	Signature of Reg	istered U.S. Patent Practitioner	
Signature	/Michael E. Belk/	Date (YYYY-MM-DD)	2014-03-18
Name	Michael E. Belk	Registration Number	33357

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- A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

PTO/SB/08a (01-10) Mation Disclosure Statement (IDS) Filed U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13955345	
	Filing Date		2013-07-31	
	First Named Inventor Matth		Matthew J. Bickerton	
	Art Unit		2689	
	Examiner Name	Alber	ert Kang Wong	
	Attorney Docket Number		2001P00413US01	

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Examiner Initial*	Cite No			Issue Date Name of Patentee or Applicant of cited Document		Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear		
	1	5798716	A	1998-08-25	DAVIS			
	2	6043760	A	2000-03-28	LAAKKONEN			
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	7	5861823	A	1999-01-19	STRAUCH ET AL			
	8	6271835	B1	2001-08-07	HOEKSMA			

# INFORMATION DISCLOSURE Application Number 13955345 Filing Date 2013-07-31 First Named Inventor Matthew J. Bickerton Art Unit 2689 Examiner Name Albert Kang Wong Attorney Docket Number 2001P00413US01

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13955345	
	Filing Date		2013-07-31	
	First Named Inventor Matth		ew J. Bickerton	
	Art Unit		2689	
	Examiner Name Alber		Kang Wong	
	Attorney Docket Numb	ber	2001P00413US01	

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Standard S <sup>4</sup> Kind of do	T.3). <sup>3</sup> cument	For Japanese patent documents, the indication of th	or MPEP 901.04. <sup>2</sup> Enter office that issued the docume e year of the reign of the Emperor must precede the ser ument under WIPO Standard ST.16 if possible. <sup>5</sup> Applie	rial number of the patent doc	ument.

INFORMATION DISCLOSURE	Application Number		13955345	
	Filing Date		2013-07-31	
	First Named Inventor Matth		atthew J. Bickerton	
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		2689	
(Not for submission under 37 CFR 1.99)	Examiner Name Albe		pert Kang Wong	
	Attorney Docket Number		2001P00413US01	

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Plea	ase see 37 CFR	1.97 and 1.98 to make the appropriate select	tion(s):					
	from a foreign	of information contained in the information patent office in a counterpart foreign applic losure statement. See 37 CFR 1.97(e)(1).						
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	foreign patent of after making rea any individual d	information contained in the information of ffice in a counterpart foreign application, an asonable inquiry, no item of information cont lesignated in 37 CFR 1.56(c) more than th 37 CFR 1.97(e)(2).	nd, to the knowledge of th tained in the information di	e person signing the certification sclosure statement was known to				
	See attached ce	rtification statement.						
	Fee set forth in 3	37 CFR 1.17 (p) has been submitted herewit	h.					
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pub 1.14 app requ Pate FEE	lic which is to file . This collection lication form to the uire to complete the ent and Trademan	rmation is required by 37 CFR 1.97 and 1.98 (and by the USPTO to process) an application is estimated to take 1 hour to complete, inclu- e USPTO. Time will vary depending upon the his form and/or suggestions for reducing this k Office, U.S. Department of Commerce, P.C. ED FORMS TO THIS ADDRESS. <b>SEND TO</b>	on. Confidentiality is gover uding gathering, preparing a ne individual case. Any con burden, should be sent to O. Box 1450, Alexandria, V.	ned by 35 U.S.C. 122 and 37 CFR and submitting the completed ments on the amount of time you the Chief Information Officer, U.S. A 22313-1450. DO NOT SEND				

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- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

(19) 日本國特許厅(JP	) (12)特許	公報(B2)	(11)特許書号 特許第4019512号 (P4019512)
(45) 発行日 平成194	F12月12日 (2007. 12. 12)	(2	4) 登録日 平成19年10月5日 (2007.10.5)
(51) Int.Cl. GO6F 3/023 HO3M 11/04 GO6F 3/048 GO6F 3/041 GO6F 17/22			
(21) 出 <b>版香号</b> (22) 出 <b>股</b> 日 (65) 公開番号 (43) 公開日 審査請求日	特质平10-227000 平成10年8月11日 (1998.8.11) 特別2000-56912 (P2000-56912A) 平成12年2月25日 (2000.2.25) 平成17年2月28日 (2005.2.28)	東京 (74) 代理人 100 弁明 (72) 発明者 坂田 神教 地 会社 客査官 篠城 (56) 参考文献 特	ニー株式会社 京都港区港南1丁目7番1号 1094053 理士 佐藤 隆久 田 雅章 奈川県横浜市保土ヶ谷区神戸町134番 ソニー・エルエスアイ・デザイン株式 土内

(54) 【発明の名称】文字入力装置、文字入力方法及び文字入力機能を有するプログラムを記録した情報記録媒体

(57)【特許請求の範囲】

【請求項1】

特定の文字種別に該当する文字で構成される複数の文字情報をそれぞれ表示手段に表示 した状態で、文字情報の任意の文字を指示するための指示手段によって、所望の文字を指 示して入力するための文字入力装置であって、

文字情報を格納する文字情報格納手段と、

文字情報を一覧表示するための文字一覧表示手段や、文字情報の任意の文字における少 なくとも1つの文字種別に該当する文字を表示するための文字種別表示手段を表示手段に 表示させるための文字情報表示手段と、

を有し、

特定の文字種別に該当する文字で構成される複数の文字情報を表示するための文字一覧 表示手段を表示手段に表示し、

文字一覧表示手段の内の任意の文字が指示手段によって指示されると、指示された文字 に対応する少なくとも1つの他の文字種別に該当する文字を表示するための文字種別表示 手段を表示手段に表示し、

文字種別表示手段の内の任意の文字種別に該当する文字を指示手段で指示して離すと、 離した位置に表示していた文字の文字種別に該当する文字情報を文字一覧表示手段に表示 する

ことを特徴とする文字入力装置。

【請求項2】

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文字種別は、日本語を入力する場合には、<u>清音</u>、濁音、半濁音、拗音<u>または</u>促音<u>と、全</u> <u>角平仮名、半角平仮名、全角片仮名または半角片仮名と</u>の組み合わせであり、それ以外の 言語を入力する場合には、大文字及び小文字である

請求項1に記載の文字入力装置。

【請求項3】

文字種別表示手段に表示される各文字種別毎の文字は、それぞれ縦方向、横方向又は方 眼状に配列される

請求項1に記載の文字入力装置。

【請求項4】

指示手段は、タブレットに対して指示するポインティングデバイス又はマウスポインタ 10 である

請求項1に記載の文字入力装置。

【請求項5】

特定の文字種別に該当する文字で構成される複数の文字情報をそれぞれ表示手段に表示 した状態で、文字情報の任意の文字を指示するための指示手段によって、所望の文字を指示して入力するための文字入力装置であって、

文字情報を格納する文字情報格納手段と、

文字情報を一覧表示するための第1文字一覧表示手段や、文字情報の任意の文字におけ る少なくとも1つの文字種別に該当する文字を表示するための文字種別表示手段を表示手 段に表示させるための文字情報表示手段と、

を有し、

特定の文字種別に該当する文字で構成される複数の文字情報を<u>表示するための</u>第1文字 一覧表示手段を表示手段に表示し、

第1文字一覧表示手段の内の任意の文字が指示手段によって指示されると、第1文字一 覧表示手段より詳細な文字情報を表す第2文字一覧表示手段を表示手段に表示し、

第2文字一覧表示手段の内の任意の文字<u>が</u>指示手段によって指示<u>されると、</u>指示された 文字に対応する少なくとも1つの<u>他の</u>文字種別に該当する文字を<u>表示するための</u>文字種別 表示手段を表示手段に表示し、

文字種別表示手段の内の任意の文字種別の文字が指示手段によって指示されてその位置 から離されると、文字種別表示手段において離した位置に表示されている文字種別に該当 30 する文字情報を第1文字一覧表示手段に表示する

ことを特徴とする文字入力装置。

【請求項6】

特定の文字種別に該当する文字で構成される複数の文字情報をそれぞれ表示手段に表示 した状態で、文字情報の任意の文字を指示するための指示手段によって、所望の文字を指示して入力するための文字入力装置であって、

文字情報を格納する文字情報格納手段と、

文字情報を一覧表示するための文字一覧表示手段や、文字情報の任意の文字における少 なくとも1つの文字種別に該当する文字を表示するための文字種別表示手段を表示手段に 表示させるための文字情報表示手段と、

を有し、

特定の文字種別に該当する複数の文字<u>情報を表示するための</u>文字一覧表示手段を表示手 段に表示し、

表示手段に表示された文字一覧表示手段の内の任意の文字が指示手段によって予め決め られた時間指示され続けると、指示された文字に対応する少なくとも1つの他の文字種別 に該当する文字を表示するための文字種別表示手段を表示手段に表示し、

文字種別表示手段を摺動するように文字種別表示手段の内の任意の文字を指示手段によ って指示され、その位置から離されると、文字種別表示手段において離した位置に表示し ていた文字の文字種別に該当する文字情報を文字一覧表示手段に表示する

ことを特徴とする文字入力装置。

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【請求項7】

特定の文字種別に該当する文字で構成される複数の文字情報を<u>表示するための</u>文字一覧 表示手段を表示手段に表示し、

文字一覧表示手段の内の任意の文字が指示手段によって指示されると、指示された文字 に対応する少なくとも1つの他の文字種別に該当する文字を表示するための文字種別表示 手段を表示手段に表示し、

文字種別表示手段の内の任意の文字種別に該当する文字を指示手段で指示して離すと、 離した位置に表示していた文字の文字種別に該当する文字情報を文字一覧表示手段に表示 する

ことを特徴とする文字入力方法。

【請求項8】

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文字種別は、日本語を入力する場合には、<u>清音</u>、濁音、半濁音、拗音<u>または</u>促音<u>と、全</u> 角平仮名、半角平仮名、全角片仮名または半角片仮名との組み合わせであり、それ以外の

言語を入力する場合には、大文字及び小文字である

請求項7に記載の文字入力方法。

【請求項9】

文字種別表示手段に表示される各文字種別毎の文字は、それぞれ縦方向、横方向又は方 眼状に配列される

請求項7に記載の文字入力方法。

【請求項10】

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特定の文字種別に該当する文字で構成される複数の文字情報を<u>表示するための</u>第1文字 一覧表示手段を表示手段に表示し、

第1文字一覧表示手段の内の任意の文字が指示手段によって指示されると、第1文字一 覧表示手段より詳細な文字情報を表す第2文字一覧表示手段を表示手段に表示し、

第2文字一覧表示手段の内の任意の文字<u>が</u>指示手段によって指示<u>されると</u>、指示された 文字に対応する少なくとも1つの<u>他の</u>文字種別に該当する文字を<u>表示するための</u>文字種別 表示手段を表示手段に表示し、

文字種別表示手段の内の任意の文字種別の文字が指示手段によって指示されてその位置 から離されると、文字種別表示手段において離した位置に表示されている文字種別に該当 する文字情報を第1文字一覧表示手段に表示する

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ことを特徴とする文字入力方法。

【請求項11】

特定の文字種別に該当する複数の文字<u>情報を表示するための</u>文字一覧表示手段を表示手 段に表示し、

表示手段に表示された文字一覧表示手段の内の任意の文字が指示手段によって予め決め られた時間指示され続けると、指示された文字に対応する少なくとも1つの他の文字種別 に該当する文字を表示するための文字種別表示手段を表示手段に表示し、

文字種別表示手段を摺動するように文字種別表示手段の内の任意の文字<u>が</u>指示手段によって指示され、その位置から離されると、文字種別表示手段において離した位置に表示していた文字の文字種別に該当する文字情報<u>を文字</u>一覧表示手段に表示する

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ことを特徴とする文字入力方法。

【請求項12】

特定の文字種別に該当する文字で構成される複数の文字情報を<u>表示するための</u>文字一覧 表示手段を表示手段に表示し、

文字一覧表示手段の内の任意の文字が指示手段によって指示されると、指示された文字 に対応する少なくとも1つの他の文字種別に該当する文字を表示するための文字種別表示 手段を表示手段に表示し、

文字種別表示手段の内の任意の文字種別に該当する文字を指示手段で指示して離すと、 離した位置に表示していた文字の文字種別に該当する文字情報を文字一覧表示手段に表示 する

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文字入力機能を有するプログラムを記録したこと

を特徴とする情報記録媒体。

【請求項13】

文字種別は、日本語を入力する場合には、<u>清音</u>、濁音、半濁音、拗音<u>または</u>促音<u>と、全</u> <u>角平仮名、半角平仮名、全角片仮名または半角片仮名と</u>の組み合わせであり、それ以外の 言語を入力する場合には、大文字及び小文字である

文字入力機能を有するプログラムを記録した

請求項12に記載の情報記録媒体。

【請求項14】

文字種別表示手段に表示される各文字種別毎の文字は、それぞれ縦方向、横方向又は方 10 眼状に配列される

文字入力機能を有するプログラムを記録した

請求項12に記載の情報記録媒体。

【請求項15】

特定の文字種別に該当する文字で構成される複数の文字情報を<u>表示するための</u>第1文字 一覧表示手段を表示手段に表示し、

第1文字一覧表示手段の内の任意の文字が指示手段によって指示されると、第1文字一 覧表示手段より詳細な文字情報を表す第2文字一覧表示手段を表示手段に表示し、

第2文字一覧表示手段の内の任意の文字が指示手段によって指示<u>されると</u>、指示された 文字に対応する少なくとも1つの<u>他の</u>文字種別に該当する文字を<u>表示するための</u>文字種別 20 表示手段<u>を表示手段</u>に表示し、

文字種別表示手段の内の任意の文字種別の文字が指示手段によって指示されてその位置 から離されると、文字種別表示手段において離した位置に表示されている文字種別に該当 する文字情報を第1文字一覧表示手段に表示する

文字入力機能を有するプログラムを記録した

ことを特徴とする情報記録媒体。

【請求項16】

特定の文字種別に該当する複数の文字<u>情報を表示するための</u>文字一覧表示手段を表示手 段に表示し、

表示手段に表示された文字一覧表示手段の内の任意の文字が指示手段によって予め決め 30 られた時間指示され続けると、指示された文字に対応する少なくとも1つの他の文字種別 に該当する文字を表示するための文字種別表示手段を表示手段に表示し、

文字種別表示手段を摺動するように文字種別表示手段の内の任意の文字が指示手段によって指示され、その位置から離されると、文字種別表示手段において離した位置に表示していた文字の文字種別に該当する文字情報<u>を文字</u>一覧表示手段に表示する

- 文字入力機能を有するプログラムを記録したこと
- を特徴とする情報記録媒体。

【発明の詳細な説明】

[0001]

【発明の属する技術分野】

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この発明は、文字を入力するための文字入力装置、文字入力方法及び文字入力機能を有す るプログラムを記録した情報記録媒体に関するものである。

[0002]

【従来の技術】

近年、情報産業の発達によって様々な情報の活用がなされている。例えば、業務や個人的 な情報を管理して、さらにこの情報を利用するためには、例えばパーソナルコンピュータ や情報携帯端末機器(以下略して情報機器と呼ぶ)等が利用されている。例えば前述の情 報機器を一例として説明すると、この情報機器は、例えば使用者が所定のポインティング デバイスを使用して、情報機器に設けられた表示部に内蔵する所定のソフトウェアによっ て表示された画面が操作されることで操作される。このような画面は、通常GUI(Gr

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aphical User Interface)と呼ばれるユーザインターフェイスが 採用され、使用者が操作しやすいようになっている。このような情報機器は、性能を向上 させると共に個人が携帯しやすいように小型化を図る競争が行われている。 【0003】

このように情報機器が小型化されると、当然表示部の表示面積が小さくなる。従って、所 定のソフトウェアによって表示部に表示される表示物が小さくなり、GUIの操作性が低 下するという欠点がある。以下、例えば表示部に表示されるものとしてソフトキーボード を一例として具体的にその欠点について説明する。尚、「ソフトキーボード」とは、文字 を情報機器に入力できるキーボード機能を有するソフトウェアをいうものとする。

[0004]

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【発明が解決しようとする課題】

図25~図27は、それぞれ表示部に表示される従来のソフトキーボードの表示状態を示 す図である。

図25においては、ソフトキーボード106は、例えば全角平仮名表示領域107、全角 片仮名表示領域108及び半角片仮名表示領域109を有する。

従って、ソフトキーボード106は、表示面積の小さな表示部に表示されると1つ1つの 文字が小さくなり見づらいこと及び、平仮名及び片仮名並びに全角及び半角といったよう な文字種別によって大きな表示面積を必要とすることが生ずる。

[0005]

図26(A)~(C)においては、ソフトキーボード106は、図25の欠点を除去する 20 ために複数の文字種別の文字情報を1つの画面で表示することにしたものである。したが って、ソフトキーボード106は、文字情報を表示するための表示領域以外に、例えば全 角平仮名ボタン106a、全角片仮名ボタン106b及び半角片仮名ボタン106cを有 する。図26(A)~(C)のソフトキーボード106では、文字種別としての全角平仮 名、全角片仮名及び半角片仮名を区別して文字情報を表示するのに、使用者が各ボタンを 操作する必要がある。

[0006]

図27においては、ソフトキーボード106は、図26(A)~(C)の文字情報の表示 領域の面積を小さくするために濁点、半濁点を付加したり、又は例えばローマ字等を入力 できるソフトキーボードにおいて大文字表示を小文字表示又は、小文字表示を大文字表示 にするための入力部(ぞれぞれ図27の濁音キー106e及び半濁音キー106f、又は 小文字ボタン106b)を設けている。このようなソフトキーボード106では、操作者 が一々所望の文字種別の文字情報に切り替えなければならない。

[0007]

そこでこの発明は上記課題を解消し、簡単且つ正確に文字入力を行うことができ、文字一 覧表示手段の表示面積の小さな文字入力装置、文字入力方法及び文字入力機能を有するプ ログラムを記録した情報記録媒体を提供することを目的としている。

[0008]

【課題を解決するための手段】

上記目的は、この発明にあっては、特定の文字種別に該当する文字で構成される複数の 文字情報をそれぞれ表示手段に表示した状態で、文字情報の任意の文字を指示するための 指示手段によって、所望の文字を指示して入力するための文字入力装置であって、文字情 報を格納する文字情報格納手段と、文字情報を一覧表示するための文字一覧表示手段や、 文字情報の任意の文字における少なくとも1つの文字種別に該当する文字を表示するため の文字種別表示手段を表示手段に表示させるための文字情報表示手段と、を有し、特定の 文字種別に該当する文字で構成される複数の文字情報を表示するための文字一覧表示手段 <u>を表示</u>手段に表示し、文字一覧表示手段の内の任意の文字種別に該当する文字を表示する ための文字種別表示手段<u>を表示手段</u>に表示し、文字種別表示手段の内の任意の文字種別に該当する文字を表示する ための文字種別表示手段で指示して離すと、離した位置に表示していた文字の文字種別に 50 (6)

該当する文字情報を文字一覧表示手段に表示することを特徴とする文字入力装置により、 達成される。

[0009]

この発明では、表示手段には、特定の文字種別に該当する文字で構成される<u>複数の</u>文字 情報を<u>表示するための</u>文字一覧表示手段が表示される。使用者は、指示手段によって文字 一覧表示手段の任意の文字を指示する。<u>すると、</u>表示手段には、指示手段によって指示さ れた文字に対応する少なくとも1つの<u>他の</u>文字種別<u>に該当する</u>文字を表示するための文字 種別表示手段が表示される。使用者は、文字種別表示手段の所望の文字を指示手段によっ て指示して指示手段を離す。<u>これにより、</u>表示手段には、文字種別表示手段において離し た位置に表示されていた文字の文字種別に該当する文字情報が表示される。 【0010】

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【発明の実施の形態】

以下、この発明の好適な実施の形態を添付図面に基づいて詳細に説明する。

なお、以下に述べる実施の形態は、この発明の好適な具体例であるから、技術的に好まし い種々の限定が付されているが、この発明の範囲は、以下の説明において特にこの発明を 限定する旨の記載がない限り、これらの形態に限られるものではない。

[0011]

以下の説明中、「文字種別」とは、日本語を入力する場合には、直音、濁音、半濁音、物 音、促音、慣用特殊文字、平仮名及び片仮名並びにこれらと全角及び半角の組み合わせを 示し、それ以外の言語(例えば英語等)を入力する場合には、大文字及び小文字を示す。 「文字情報」とは、文字種別毎の複数の文字を示す。以下の説明で、情報機器において文 字入力するためにキーボードをソフトウェアで表示するが、「キー」とは、通常のキーボ ードのキーに該当するソフトウェアによって表示されたのキー(ソフトキー)を示すもの とする。

[0012]

第1実施形態

図1は、この発明の第1実施形態としての文字入力装置に対して文字を入力する様子を示 す斜視図である。

 文字入力装置1は、例えば携帯型の情報を管理するための情報機器である。文字入力装置 1は、筐体としての本体1a、本体1aの一表面に設けられたタブレット7(指示手段) 30 、タブレット7に密着するようにタブレット7及び本体1aの間に設けられた表示部5( 表示手段)を有する。上記表示部5は、例えば液晶ディスプレイであり、後述する文字入 カソフトウェアとしてのソフトキーボード6(文字入力機能を有するプログラムの一部と しての文字一覧表示手段)が表示される。上記本体1aは、その内部に後述する図2のよ うな制御回路8を有する。

[0013]

図2は、図1の文字入力装置における制御回路の簡略化した構成例を示す構成図である。 制御回路8は、制御部9、記憶部11、外部記憶部13、タブレット7(指示手段)及び 表示部5(表示手段)を有する。尚、制御回路8は、タブレット7の代わりに、表示部5 のポインティングデバイスとしてのいわゆるマウス等を備えているような構成であっても 40 良い。

[0014]

上記制御部9は、例えばCPU(中央演算処理装置)である。制御部9は、記憶部11、 外部記憶部13、タブレット7及び表示部5と接続されている。制御部9は、記録部11 に記録された情報等に基づいて、文字入力装置1全体を制御している。

[0015]

上記記憶部11は、例えばRAM(Randam Access Memory)やRO M(Read Only Memory)である。記憶部11は、ソフトキーボード6( 及び基本ソフト等)が動作するための作業領域である。 【0016】

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上記外部記憶部13は、例えばハードディスクである。外部記憶部13は、上述したソフ トキーボード6を格納する。ソフトキーボード6は、起動されると、例えば制御部9によ って記憶部11上で動作する。ソフトキーボード6についての説明は、後述する。 【0017】

上記タブレット7は、例えばペンタッチ型のタッチパネルである。このタブレット7は、 ユーザが例えばペン型であって先の尖った形状をしたポインティングデバイス3(指示手 段)にてタブレット7の所定の位置に触れて、上下略2層の抵抗層が接触することにより 所定の電極に生ずる電圧が変化し、後述する図2の制御部9が、その位置を認識する入力 装置である。タブレット7は透明な部材であり、その下層には表示部5が配置されている 。これにより、ユーザは、表示部5の表示を透明なタブレット7を介して視認できるよう になっている。

[0018]

図3は、図1のソフトキーボードの機能例を図示した機能ブロック図である。ソフトキー ボード6は、ドラッグメニュー情報テーブル17(文字情報格納手段)及び文字情報表示 手段19を有する。以下の説明で「ドラッグ」とは、例えば使用者が、ポインティングデ バイス3の先端3aを表示部5に表示されたソフトキーボード6等に接触させた状態で、 タブレット7の表面上を摺動させることをいうものとする。

[0019]

上記ドラッグメニュー情報テーブル17は、例えば文字種別毎の文字を格納する。ドラッ グメニュー情報テーブル17は、後述する文字情報表示手段19によって図8のようなド 20 ラッグメニュー18(文字種別表示手段)が表示された際にそのドラッグメニュー18を 表示するための情報(以下、ドラッグメニュー情報という)が読み出される。ドラッグメ ニュー情報の一例としては、図4のような形式となっている。つまり、タブレット7がタ ッチ(以下、ポインティングデバイス3によってソフトキーボード6を指示したことをい う)された際のソフトキーボード6において押されたキーに対応する文字種別毎の文字が 格納されている。

[0020]

上記文字情報表示手段19は、例えば図2の制御部9の制御によって記憶部11を作業領域として使用するソフトウェアである。文字情報表示手段19は、図1の表示部5にソフトキーボード6を表示する際にドラッグメニュー情報テーブル17を検索して、例えば図 30 6(A)~(C)のように文字種別毎に文字情報を表示させる。文字情報表示手段19は、ソフトキーボード6が表示部5に表示された状態(図7)で使用者がタブレット7をタッチして(この位置を第1位置Aと呼ぶ)、例えば図8のようなドラッグメニュー18を表示させる際にドラッグメニュー情報テーブル17を検索してドラッグメニュー情報を表示させる。

[0021]

文字情報表示手段19は、ドラッグメニュー18として図8のような画面を表示部5に表示する。このドラッグメニュー18は、ポインティングデバイス3によってタッチした文字に基づいて図4のドラッグメニュー情報テーブル17を検索して該当する全ての文字種別に該当する文字を表示する。ドラッグメニュー18は、好ましくは図4のドラッグメニ 40 ュー情報テーブル17を検索して、図8のように各文字種別(図4の表示するドラッグメ 40 ニューの選択枝)毎にいくつかの文字単位で区分されていると良い。これは、使用者がソフトキーボード6を使用する際に文字種別毎の文字を認識しやすいためである。 【0022】

以上文字入力装置の構成例について説明したが、次にその動作について説明する。 図5は、図1の文字入力装置における文字情報表示手段の詳細な動作例を示すフローチャ ートである。

以下の説明では、ソフトキーボード6が文字入力装置1において既に起動されている状態 (図7のソフトキーボード6が図1の表示部5に表示された状態)から説明する。図5に おいて「=」は、イコールを意味するのではなく、右辺の変数を左辺の変数に代入するこ 50

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とを意味している。「==」とは、左辺と右辺を比較することを意味する。また、説明中 登場する図2の記憶部11上で使用される変数として、以下のものがある。 [0023] input\_key変数 :確定入力文字 pressed\_key変数:押されたキー menu\_done変数 :ドラッグメニュー表示中を表すフラグ [0024]ソフトキーボード6が表示された状態で(ステップST1)、input\_key変数に 空白にし、pressed\_key変数は不定状態とし、menu\_done変数にfa 1 se(ドラッグメニュー18が非表示であることを示し、trueはドラッグメニュー 10 18が表示中であることを表す)を代入する(ステップST2)。 [0025]図2の制御部9は、使用者がポインティングデバイス3によってキーがタッチされたかど うかの状態を検出する。使用者によってキーがタッチされ、ドラッグメニュー18が表示 されたかどうかをチェックする (ステップST4)。 [0026]ドラッグメニュー18が表示されていなければ、キー(ソフトキー)が押されたかどうか を判断し(ステップST14)、押されていなければステップST3に戻り、押されてい れば例えばpress\_key変数に押されたキー(に対応するコード)を代入し(ステ ップST15)、このpress\_key変数に基づいて図4のドラッグメニュー情報テ 20 ーブル17を検索して、該当する文字を表すドラッグメニュー18を表示する(ステップ ST16)。そして、menu\_done変数にtrueを代入し(ステップST17) 、ポインティングデバイス3によって指示された文字を反転させる。 [0027] ドラッグメニュー18が表示されていれば、使用者がポインティングデバイス3をキーか ら離したかどうかを検出する(ステップST5)。 離されていなければ、ポインティングデバイス3がドラッグしたかどうかを検出し(ステ ップST11)、ドラッグしていなければステップST3に戻り、ドラッグしていればド ラッグで抜けたキーの反転表示を中止し、ポインティングデバイス3によってドラッグで 進入した領域を示すキーを反転表示する(ステップST12)。そして、進入したキー( 30 の例えば文字コード)をpressed\_key変数に代入する(ステップST13)。 そして、ステップST3に進む。 [0028]離されていれば、input\_key変数にpressed\_key変数を代入して(つ まり押したキーの情報を代入)、 pressed\_key変数に格納された(例えば文字 コードに該当する)文字の文字種別(文字種)に従って、ソフトキーボード6を図6(A )~(C)のいずれかのように再表示する(ステップST7)。そして同時に、ドラッグ メニュー18表示を消去し(ステップST8)、menu\_done変数にfalseを 代入する(ステップST9)。 pressed\_key変数は不定状態とし(ステップS T10)、ステップST3に戻る。 40 [0029]以上が文字情報表示手段19等の内部処理を詳細に説明したものであるが、次に使用者側 から見た場合の文字入力装置1の動作について説明する。 使用者は、文字を入力するソフトウェアを使用中である。使用者は、図8のように所望の 文字(「ウ」又は「ヴ」等)をポインティングデバイス3によって入力しようとしている 。しかし、文字入力装置1には、全角平仮名の文字種別の文字情報が表示されているので 、使用者は、表示中の文字種別を変更するために、ポインティングデバイス3によって「 う」をタッチする。 [0030]

ソフトキーボード6は、図7の状態から図8のようにドラッグメニュー18が表示される 50

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。使用者が図9(A)のようにポインティングデバイス3によってドラッグメニュー18 の任意の文字をタッチすると(例えば第1位置Aからポインティングデバイス3をドラッ グメニュー18をドラッグするようにして)、ソフトキーボード6に表示されている文字 情報が図9(B)のようにその文字の文字種別に該当する文字情報に変更される。尚、ド ラッグメニュー18を図7のように消滅させたい場合には、ドラッグメニュー18以外の 部分をタッチすればよい。

[0031]

一方、例えば使用者が文字入力装置1によって英文字を入力しようとした場合には、図1 0のようにソフトキーボード6が表示された状態(この説明では「文字情報」が表示され た状態を示す)で、入力しようとしている文字としての「n」をポインティングデバイス 3でタッチすると図11のようにドラッグメニュー18が表示される。尚、図11のドラ ッグメニュー18では、左から全角「N」、「n」、半角「N」、「n」の順に表示され ている。この表示順は、例えば図4のドラッグメニュー情報テーブル17に格納されてい る順番である(図4では、一例であるので日本語の文字のみを格納している)。 【0032】

使用者は、図12(A)のように全角の「N」を入力しようとしてドラッグメニュー18 の「N」をタッチする。ソフトキーボード6は、図12(B)のように文字種別が全角の 表示となる。

[0033]

この発明の第1実施形態によれば、簡単且つ正確に文字入力装置1に対して文字を入力す 20 ることができ、各文字種別毎に文字情報を表示しない分及び従来必要とされていた文字種 別を切り替えるための切替手段(例えばボタン等)が不要であり、ソフトキーボード6の 表示面積を従来より小さくすることができながら、GUI(Graphical Use r Interface)の操作性が良く、特に表示部5の表示領域が決まっている場合 には特に効果がある。

[0034]

第2実施形態

図13~16は、この発明の第2実施形態としての文字入力装置のソフトキーボードの表示例を示す図である。

図13~16の文字入力装置1は、第1実施形態と同様の構成をしており、そのソフトキ 30 ーポード6の日本語表示方法において、以下の点が異なる。

ソフトキーボード6の表示(第1文字一覧表示手段)は、例えば図13のように「あ」、 「か」・・、「わ」というように、50音の先頭文字のみが表示されている。使用者は 、ポインティングデバイス3にて所望の文字の先頭文字をタッチして図14のような行ド ラッグメニュー16(以下行メニュー16と略す、第2文字一覧表示手段)を表示させる

[0035]

使用者は、所望の文字と同一の文字種別の文字をタッチして図15のようにドラッグメニ ュー18を表示させる。使用者は、図16(A)のようにポインティングデバイス3をド ラッグメニュー18を摺動させて、所望の文字種別(全角の片仮名)の文字(「ヴ」)を 40 ポインティングデバイス3でタッチすると、図16(B)のように文字種別が全角の片仮 名に変更される。

[0036]

この発明の第2実施形態によれば、第1実施形態の効果に加えて、さらに第1実施形態よ りもソフトキーボード6の表示領域を小さくすることができる。

[0037]

第3実施形態

図17~20は、この発明の第3実施形態としての文字入力装置のソフトキーボードの表 示例を示す図である。

図17~20の文字入力装置1は、第1実施形態と同様の構成をしており、そのソフトキ 50

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ーボード6のドラッグメニュー18の表示方法において以下の点が異なる。

[0038]

文字入力装置1の表示部5には、図17のようなソフトキーボード6が表示されている。 使用者は、図18のように所望の文字をタッチして(すぐ離して)、文字を確定して入力 する。

[0039]

一方、ソフトキーボード6に表示する文字種別を変更する場合には、使用者は、図19のようにポインティングデバイス3で任意の文字をタッチして一定時間経過したところでドラッグメニュー18が表示される。以下、文字種別を選択する方法は第1実施形態と同様であり、図20のように文字種別を変更して文字情報を表示することができる。 【0040】

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この発明の第3実施形態によれば、第1実施形態の効果に加えて、使用者は、ポインティ ングデバイス3によって文字を入力することと、ドラッグメニュー18を表示させること とを明確且つ簡単にそして素速く行うことができる。

[0041]

第4実施形態

図21~23は、この発明の第4実施形態としての文字入力装置のソフトキーボードの表 示例を示す図である。

図21~23の文字入力装置1は、第1実施形態と同様の構成をしており、そのソフトキ ーボード6のドラッグメニュー18の表示方法において第1実施形態と以下の点が異なる 20

[0042]

図21(A)のように表示されたソフトキーボード6において、使用者が、図21(B) のように所望の文字をタッチしてすぐ離すと、文字が選択されて入力される。

[0043]

ソフトキーボード6において表示されている文字種別を変更するためにドラッグメニュー 18を表示させるには、図22(A)のように使用者がポインティングデバイス3を任意 の文字(「う」)を指示して、そのまま図22(B)のように例えば「う」の領域を摺動 させる(ドラッグさせる)と、図23のようにドラッグメニュー18が表示される。そし て、このようにドラッグメニュー18を表示させて第1実施形態と同様にして表示中の文 字の文字種別を変更する。尚、ポインティングデバイス3によってドラッグされる方向は 、前述したものに限られずその逆であっても良いし、その領域内を摺動すればよい。

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この発明の第4実施形態によれば、第3実施形態の効果と同様の効果を上げることができる。

[0045]

[0044]

ところでこの発明は上述した実施形態に限定されるものではない。

上述した実施形態では、ドラッグメニュー18は、図24(A)のように略同一文字について一直線上に配列されているが、例えば図24(B)のように縦方向に配列させてもよい。また、ドラッグメニュー18は、図24(C)のように文字を文字種別単位に横に並 40 べてさらに文字種別毎の文字を縦に配置させるような表示方法でも良い。このように配列することで、狭い範囲に文字を配列することができる。また、図24(D)のように文字種別単位に文字を縦に配列して、各文字種別単位を横方向に配置させるようにしても良い。このように配列することで、狭い範囲に文字を配列することができる。尚、上述したような文字入力機能を有するプログラム(ソフトキーボード6)は、例えばコンパクトディスクやフロッピーディスク(フレキシブルディスク)に格納されているような形態でも良いことはいうまでもない。

[0046]

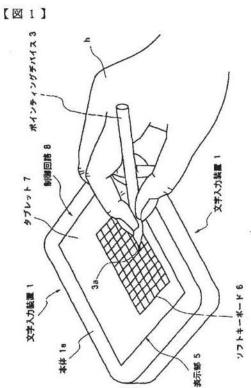
【発明の効果】

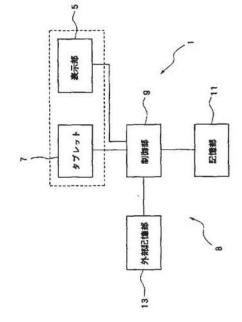
以上説明したように、この発明によれば、簡単且つ正確に文字入力を行うことができ、文 50

字一覧表示手段の表示面積の小さな文字入力装置、文字入力方法及び文字入力機能を有す るプログラムを記録した情報記録媒体を提供することができる。 【図面の簡単な説明】 【図1】この発明の第1実施形態としての文字入力装置に対して文字を入力する様子を示 す斜視図。 【図2】図1の文字入力装置における制御回路の簡略化した構成例を示す構成図。 【図3】図1のソフトキーボードの機能例を図示した機能ブロック図。 【図4】図3のドラッグメニュー情報テーブルの内容を示す図。 【図5】図1の文字入力装置における文字情報表示手段の詳細な動作例を示すフローチャ 10 ート。 【図6】図1の表示部に表示されるソフトキーボードの表示例を示す図。 【図7】図1の表示部に表示されるソフトキーボードの表示例を示す図。 【図8】図1の表示部に表示されるソフトキーボードの表示例を示す図。 【図9】図1の表示部に表示されるソフトキーボードの表示例を示す図。 【図10】図1の表示部に表示されるソフトキーボードの表示例を示す図。 【図11】図1の表示部に表示されるソフトキーボードの表示例を示す図。 【図12】図1の表示部に表示されるソフトキーボードの表示例を示す図。 【図13】この発明の第2実施形態としての文字入力装置のソフトキーボードの表示例を 示す図。 【図14】この発明の第2実施形態としての文字入力装置のソフトキーボードの表示例を 20 示す図。 【図15】この発明の第2実施形態としての文字入力装置のソフトキーボードの表示例を 示す図。 【図16】この発明の第2実施形態としての文字入力装置のソフトキーボードの表示例を 示す図。 【図17】この発明の第3実施形態としての文字入力装置のソフトキーボードの表示例を 示す図。 【図18】この発明の第3実施形態としての文字入力装置のソフトキーボードの表示例を 示す図。 【図19】この発明の第3実施形態としての文字入力装置のソフトキーボードの表示例を 30 示す図。 【図20】この発明の第3実施形態としての文字入力装置のソフトキーボードの表示例を 示す図。 【図21】この発明の第3実施形態としての文字入力装置のソフトキーボードの表示例を 示す図。 【図22】図21のソフトキーボードの部分拡大図。 【図23】ドラッグメニューが表示された様子を示す図。 【図24】ドラッグメニューの表示の変形例を示す図。 【図25】表示部に表示される従来のソフトキーボードの表示状態を示す図。 【図26】表示部に表示される従来のソフトキーボードの表示状態を示す図。 40 【図27】表示部に表示される従来のソフトキーボードの表示状態を示す図。 【符号の説明】 1・・・文字入力装置、3・・・ポインティングデバイス、5・・・表示部、6・・・ソ フトキーボード(文字一覧表示手段、第1文字一覧表示手段)、7・・・タブレット、1 5・・・文字情報テーブル(文字情報格納手段)、16・・・行ドラッグメニュー(第2 文字一覧表示手段)、17・・・ドラッグメニュー情報テーブル(文字情報格納手段)、 18・・・ドラッグメニュー(文字種別表示手段)、19・・・文字情報表示手段

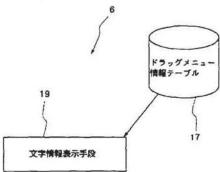
(11)









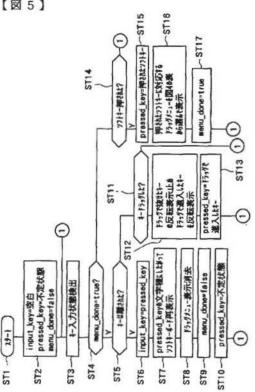


【図4】

タッチされた	表示するド	ラッグメニュ	ーの選択肢
*-	全角平便名	全角片仮名	半角片仮名
877	<b>a</b> b	77	77
1111	67.64	11	11
-> >>	33	ウッヴ	7 7 7
ž.II	龙之	II	II
811	建築	**	10
かカま	かが	カカガ	22
3.44	1.	+*	**
( 2 )	<5	24	77
1779	きくけこさしずせそ	744	++*
233	35	33	33'
3 79	35	サザ	**
L99	LU	22	44
TZ1	すず	スズ	2.1
224	42	セゼ	tt'
471	そぞ	177	27
たタナ	ただ	77	11
3++		+ <b>#</b>	++*
371	222	777	777
てチチ	TT	77 1 1	***
211	ろってとなになねの		
271	2	ナニヌネ	+
12:2	12	=	= *
471	**	7	X
2*1	5		*
011		iver	100.0
はわれ	111111 1000	REE	22'2'
OFE		777	77 7
A77	***	777	20. 0.
222	~~~	ホポポ	****
12:44	121213		** *
¥ 77	*	72	1
A11	*	1	2
444	みむめも	4	3
めメメ	?	×	
6-24	0	++	÷ †•
***	やゆよらりるれろわそん	22	32
122			
571	1.1	33	2
577	h	5	7
3.8.1	Å	N	
hu	*		1
501	~		1- 
677	5	レロフ <b>ラ</b> ン	17
877	*	17	7 7
1.22	7	1.	

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[図5]



[図7]



[図8]

-	n	_	83	~	2	τ	t	17	え	
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ħ	5	*	효	#	4	t	ŧ	\$r	高	18



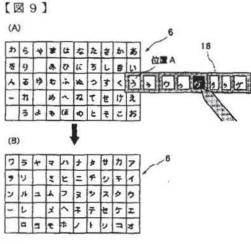
(A)

(13)





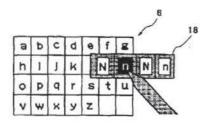
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	2	5	۲	5	N	+	\$	3	2	7
	7	Ţ		2	Ł	1	Ŧ	3	+	1
(C)	2	A	1	4	7	R	3	2	>	2
	-	L		x	2	7	7	ŧ	3	1
		٥	3	ł	*	,	F	y	1	*



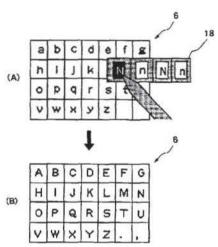
【図1	0]
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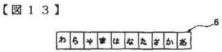
a	b	с	d	e	f	g
h	1	J	k	1	m	n
0	p	q	r	s	t	u
v	w	x	У	z		

【図11】



【図12】

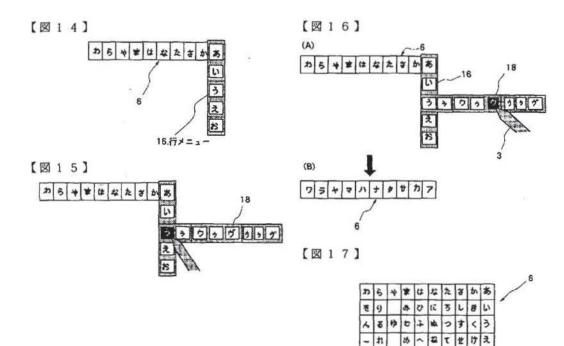




3

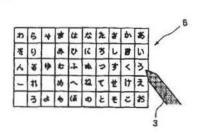
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## GOOGLE EX. 1008 - 00268 Google v. Philips

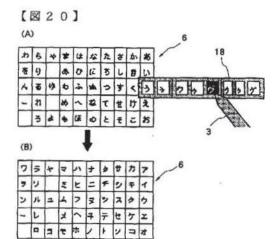
【図18】



【図19】

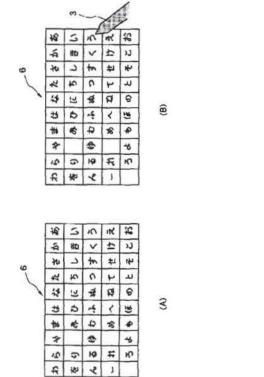
4

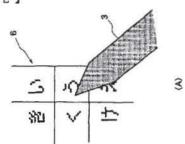
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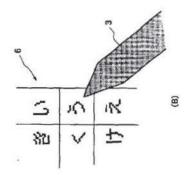


【図21】

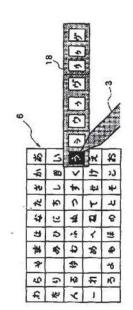


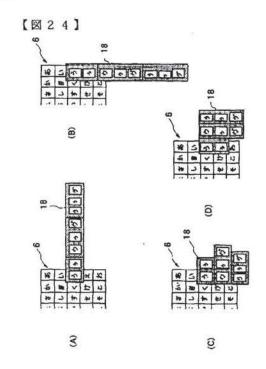






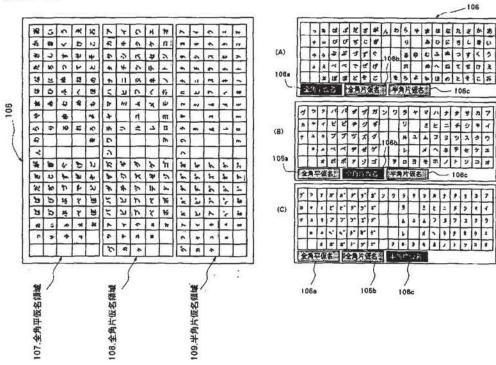
GOOGLE EX. 1008 - 00269 Google v. Philips [图23]





【図25】





**GOOGLE EX. 1008 - 00270 Google v. Philips** 

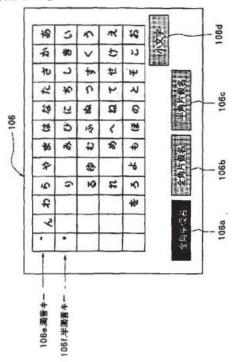
106

108

1 1

[図27]

...



+

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GOOGLE EX. 1008 - 00271 Google v. Philips

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フロントページの続き

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(58)調査した分野(Int.Cl., DB名) GO6F 3/01-3/048 HO3N 11/04-11/24

10

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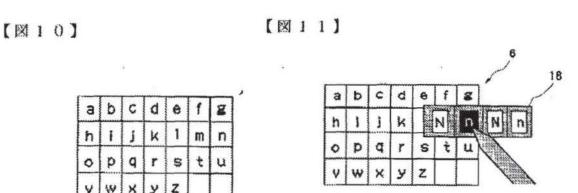
(45) 発行日 平成	19年12月12日 (2007. 12. 12)		(24) 登録日	特許第4019512号 (P4019512) 平成19年10月5日 (2007.10.5)
H03M 11/ G06F 3/	048 (2006.01) GO 041 (2006.01) GO	6 F 3/048 6 6 F 3/041 3	310L 320 330C 502A	請求項の数 16 (全 18 頁)
(21) 出願番号 (22) 出願日 (65) 公開香号 (33) 公開日 審査請求日	特顯平10-227000 平成10年8月11日 (1998.8.11) 特閒2000-56912 (22000-56912) 平成12年2月25日 (2000.2.25) 平成17年2月28日 (2005.2.28)	) (74)代理人 (72)発明者 審査官	100094053 弁理士 佐服 坂田 雅章 神奈川県横 地 ソニー・ 会社内 篠塚 隆開平07 特開平09	☆社 巻南1丁目7番1号

(12)特許公報(82)

(11)特許番号

(19) 日本国特許庁(JP)

(54) 【発明の名称】文字入力装置、文字入力方法及び文字入力機能を有するプログラムを記録した情報記録媒体

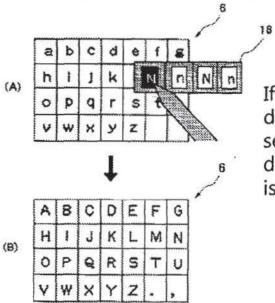


Actually the invention didn't disclose concept of 'pre-determined time'. However, it disclosed similar concept to select secondary character corresponding to one key button.

Figure 11 disclosed a example of the invention, if user select character 'n' in a keyboard display by using pen or his finger, then selectable other characters are displayed along with original character( in this case 'n').

So, if user takes his pen off while selecting 'n' then original character(primary character) is selected.





If user select other character while displaying selectable candidates, then selected character (secondary character) is displayed or corresponding new key board is displayed.

【図11】

							6
a	b	c	d	e	f	z	Ľ.
h	1	1	k		N	n	N n
0	р	q	r	S	t	u	$\overline{\mathcal{T}}$
۷	w	x	У	z			

When user selects one of the character of the keyboard, primary character is selected basically. And user has to move his pen to select secondary character.

The patent doesn't disclose timing concept, but selecting secondary character via primary character of keyboard is obvious in light of the invention.

# Patent Record Full View Tuesday, March 18 2014

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THOMSON INNOVATION

## Patent/Publication: JP0401951282

## Bibliography

### **DWPI Title**

Input of characters for text composition from soft keyboard over touch-type display avails several character sets requisitioned through separately displayed menu

Assignee/Applicant

Original: SONY CORP, JP

DWPI Assignee/Applicant SONY CORP (SONY-C)

DWPI Inventor SAKATA M

Publication Date (Kind Code) 2007-12-12 (B2)

DWPI Accession / Update 2000-241549 / 200801

Application Number / Date JP1998227000A / 1998-08-11

## Priority Number / Date / Country

JP1998227000A / 1998-08-11 / JP

## Abstract

## DWPI Abstract

(JP2000056912A\_)

## Novelty

A character set (6) is presented over a touch-type display screen in a tabular form. Individual characters can be chosen through a stylus, manually from the array. By contacting one of a special subset of characters in the particular array, a separate menu (18) is brought forward onto the display, from which menu of a different character set (6B) can be generated.

## Use

Portable computers come with specialized software/interfaces that accept manual inputs through a hand held stylus, for instance characters pertaining to Japanese language.

#### Advantage

It leads to accurate composition of text through an operationally simple procedure, accessing characters classified under specific formats.

#### **Drawing Description**

The figure shows the typical perspective view of character input unit.

18 - Menu.

6A, B - Tabular arrays of characters.

## **Classes/Indexing**

#### IPC

Current IPC	Invention	Version	Additional	Version
Full	G06F 3/023 H03M 11/04 G06F 3/00 G06F 3/041 G06F 3/048 G06F 17/22	20060101 20060101 20060101 20060101 20060101 20060101	-	-
Main Group	-	-	-	-
Subclass	-	-	-	-

Original IPC	Invention	Version	Additional	Version
Advanced/Full	G06F 3/023 G06F 3/041 G06F 3/048 G06F 17/22 H03M 11/04	20060101 20060101 20060101 20060101 20060101	-	-
Core/Main Group	G06F 3/023 G06F 3/041 G06F 3/048 G06F 17/22 H03M 11/04	20060101 20060101 20060101 20060101 20060101 20060101	-	-
Subclass	-	-	-	-

#### **DWPI Manual Codes**

+ Expand DWPI Manual Codes

## Legal Status

#### INPADOC Legal Status

Gazette Date	Code	Description
2010-10-05	LAPS -	CANCELLATION BECAUSE OF NO PAYMENT OF ANNUAL FEES
2007-10-11	2 CO 100 CO 100 CO	RENEWAL FEE PAYMENT (PRS DATE IS RENEWAL DATE OF DATABASE) PAYMENT UNTIL: 20101005

2007-10-05	FPAY +	RENEWAL FEE PAYMENT (PRS DATE IS RENEWAL DATE OF DATABASE) PAYMENT UNTIL: 20101005
2007-10-04	A61 +	FIRST PAYMENT OF ANNUAL FEES (DURING GRANT PROCEDURE) JAPANESE INTERMEDIATE CODE: A61 2007-09-17
2007-09-05	A01 +	WRITTEN DECISION TO GRANT A PATENT OR TO GRANT A REGISTRATION (UTILITY MODEL) JAPANESE INTERMEDIATE CODE: A01 2007-09-04
2007-08-29	TRDD +	DECISION OF GRANT OR REJECTION WRITTEN
2007-08-18	A521	WRITTEN AMENDMENT JAPANESE INTERMEDIATE CODE: A523 2007-08-17
2007-06-20	A131 -	NOTIFICATION OF REASONS FOR REFUSAL JAPANESE INTERMEDIATE CODE: A131 2007-06-19
2007-06-14	A977	REPORT ON RETRIEVAL JAPANESE INTERMEDIATE CODE: A971007 2007-06-14
2005-03-01	A621 +	WRITTEN REQUEST FOR APPLICATION EXAMINATION JAPANESE INTERMEDIATE CODE: A621 2005-02-28

#### Get Family Legal Status

#### Family

#### Family

Expand INPADOC Family (2)

Expand DWPI Family (2); Countries (1)

#### Claims

#### Claims

Collapse All Claims (16)

#### Claims (English)

1. It is a character input device for instruct indicating and inputting a desired character by the indication means for instruct indicating the arbitrary characters of character information in the state which each displayed several character information comprised in the character applicable to a specific character classification on the display means,

Comprising:

A character-information storing means to store character information,

The character-information display means for displaying the character list display means for displaying character information as a list, and the character classification display means for displaying the character applicable to at least 1 character classification in the arbitrary characters of character information on a display means,

It has these,

The character list display means for displaying several character information comprised in the character applicable to a specific character classification is displayed on a display means,

Indication means' instruction indication of the arbitrary characters of the character list display means will display the character classification display means for displaying the character applicable to at least 1 other character classification corresponding to the instruct indicated character on a display means,

If the character applicable to the arbitrary character classification of the character classification display means is instruct/indicated and released/separated by indication means, the character information applicable to the character classification of the character which was being displayed on the released/separated position will be displayed on a character list display means.

The character input device characterized by the above-mentioned.

2. Character classification is a combination of a unvoiced sound, a voiced sound, a semivoiced consonant sound, palatal sounds or assimilated obstruent sound, and a full-size hiragana, a half-width hiragana, full-size katakana or half-width katakana, when inputting a Japanese language, When inputting the language of other than that, they are a capital letter and a small letter.

The character input device of Claim 1.

3. The character for every character classification displayed on a character classification display means is each arranged the vertical direction, a horizontal direction, or in the shape of squares. The character input device of Claim 1.

4. Indication means is the pointing device or mouse pointer instruct[indicated with respect to a tablet. The character input device of Claim 1.

5. It is a character input device for instruct[indicating and inputting a desired character by the indication means for instruct]indicating the arbitrary characters of character information in the state which each displayed several character information comprised in the character applicable to a specific character classification on the display means,

Comprising:

A character-information storing means to store character information,

The character-information display means for displaying the 1st character list display means for displaying character information as a list, and the character classification display means for displaying the character applicable to at least 1 character classification in the arbitrary characters of character information on a display means,

It has these,

The 1st character list display means for displaying several character information comprised in the character applicable to a specific character classification is displayed on a display means,

Indication means' instruction indication of the arbitrary characters of the 1st character list display means will display a 2nd character list display means to represent character information more detailed than a 1st character list display means on a display means,

Indication means' instruction/indication of the arbitrary characters of the 2nd character list display means will display the character classification display means for displaying the character applicable to at least 1 other character classification corresponding to the instruct/indicated character on a display means,

If the character of the arbitrary character classification of the character classification display means is instruct[indicated by indication means and released[separated from the position, the character information applicable to the character classification currently displayed on the position released[separated in the character classification display means will be displayed on a 1st character list display means.

The character input device characterized by the above-mentioned.

6. It is a character input device for instruct/indicating and inputting a desired character by the indication means for instruct/indicating the arbitrary characters of character information in the state which each displayed several character information comprised in the character applicable to a specific character classification on the display means,

Comprising:

A character-information storing means to store character information,

The character-information display means for displaying the character list display means for displaying character information as a list, and the character classification display means for displaying the character applicable to at least 1 character classification in the arbitrary characters of character information on a display means,

It has these,

The character list display means for displaying several character information applicable to a specific character classification is displayed on a display means,

A character classification display means for the arbitrary characters of the character list display means displayed on the display means to display the character which corresponds to at least 1 other character classification corresponding to the pre-determined character instruct[indicated when a time instruction]indication continued being carried out by indication means is displayed on a display means, The arbitrary characters of the character classification display means are instruct]indicated to slide a character classification display means by indication means,

If it releases separates from the position, the character information applicable to the character classification of the character which was being displayed on the position released separated in the character classification display means will be displayed on a character list display means. The character input device characterized by the above-mentioned.

7. The character list display means for displaying several character information comprised in the character applicable to a specific character classification is displayed on a display means,

Indication means' instruction indication of the arbitrary characters of the character list display means will display the character classification display means for displaying the character applicable to at least 1 other character classification corresponding to the instruct indicated character on a display means,

If the character applicable to the arbitrary character classification of the character classification display means is instruct indicated and released separated by indication means, the character information applicable to the character classification of the character which was being displayed on the released separated position will be displayed on a character list display means.

The character input method characterized by the above-mentioned.

8. Character classification is a combination of a unvoiced sound, a voiced sound, a semivoiced consonant sound, palatal sounds or assimilated obstruent sound, and a full-size hiragana, a half-width hiragana, full-size katakana or half-width katakana, when inputting a Japanese language,

When inputting the language of other than that, they are a capital letter and a small letter. The character input method of Claim 7.

9. The character for every character classification displayed on a character classification display means is each arranged the vertical direction, a horizontal direction, or in the shape of squares. The character input method of Claim 7.

10. The 1st character list display means for displaying several character information comprised in the character applicable to a specific character classification is displayed on a display means,

Indication means' instruction indication of the arbitrary characters of the 1st character list display means will display a 2nd character list display means to represent character information more detailed than a 1st character list display means on a display means,

Indication means' instruction indication of the arbitrary characters of the 2nd character list display means will display the character classification display means for displaying the character applicable to at least 1 other character classification corresponding to the instruct indicated character on a display means,

If the character of the arbitrary character classification of the character classification display means is instruct indicated by indication means and released separated from the position, the character information applicable to the character classification currently displayed on the position released separated in the character classification display means will be displayed on a 1st character list display means.

The character input method characterized by the above-mentioned.

11. The character list display means for displaying several character information applicable to a specific character classification is displayed on a display means,

A character classification display means for the arbitrary characters of the character list display means displayed on the display means to display the character which corresponds to at least 1 other character classification corresponding to the pre-determined character instruct[indicated when a time instruction]indication continued being carried out by indication means is displayed on a display means,

The arbitrary characters of the character classification display means are instruct/indicated to slide a character classification display means by indication means,

If it releases separates from the position, the character information applicable to the character classification of the character which was being displayed on the position released separated in the character classification display means will be displayed on a character list display means. The character input method characterized by the above-mentioned.

12. The character list display means for displaying several character information comprised in the character applicable to a specific character classification is displayed on a display means,

Indication means' instruction indication of the arbitrary characters of the character list display means will

The information recording medium characterized by these.

13. Character classification is a combination of a unvoiced sound, a voiced sound, a semivoiced consonant sound, palatal sounds or assimilated obstruent sound, and a full-size hiragana, a half-width hiragana, full-size katakana or half-width katakana, when inputting a Japanese language,

When inputting the language of other than that, they are a capital letter and a small letter.

The program which has a character inputting function was recorded.

The information recording medium of Claim 12.

14. The character for every character classification displayed on a character classification display means is each arranged the vertical direction, a horizontal direction, or in the shape of squares.

The program which has a character inputting function was recorded.

The information recording medium of Claim 12.

15. The 1st character list display means for displaying several character information comprised in the character applicable to a specific character classification is displayed on a display means,

Indication means' instruction indication of the arbitrary characters of the 1st character list display means will display a 2nd character list display means to represent character information more detailed than a 1st character list display means on a display means,

Indication means' instruction indication of the arbitrary characters of the 2nd character list display means will display the character classification display means for displaying the character applicable to at least 1 other character classification corresponding to the instruct indicated character on a display means,

If the character of the arbitrary character classification of the character classification display means is instruct[indicated by indication means and released[separated from the position, the character information applicable to the character classification currently displayed on the position released[separated in the character classification display means will be displayed on a 1st character list display means.

The program which has a character inputting function was recorded.

The information recording medium characterized by the above-mentioned.

16. The character list display means for displaying several character information applicable to a specific character classification is displayed on a display means,

A character classification display means for the arbitrary characters of the character list display means displayed on the display means to display the character which corresponds to at least 1 other character classification corresponding to the pre-determined character instruct|indicated when a time instruction|indication continued being carried out by indication means is displayed on a display means,

The arbitrary characters of the character classification display means are instruct/indicated to slide a character classification display means by indication means,

If it releases separates from the position, the character information applicable to the character classification of the character which was being displayed on the position released separated in the character classification display means will be displayed on a character list display means.

The program which has a character inputting function was recorded.

The information recording medium characterized by these.

(Translation from Thomson Reuters)

#### Description

#### DWPI Drawing Description

The figure shows the typical perspective view of character input unit.

18 - Menu.

6A, B - Tabular arrays of characters.

#### **Drawing Description**

- Collapse Drawing Description

#### Description

- Collapse Description

#### **TECHNICAL FIELD of the Invention**

This invention relates to the information recording medium which recorded the program which has the character input device, the character input method, and character inputting function for inputting a character.

#### PRIOR ART

In recent years, the use of various information is made by growth of the information industry. For example, work and individual information are managed,

Furthermore, in order to utilize this information, the personal computer, the information personal digital assistant device (It omits below and calls an information-technology equipment), etc. are utilized, for example.

If the above-mentioned information-technology equipment is demonstrated as an example,

As for this information-technology equipment, a user uses a predetermined pointing device, for example, It operates by the screen displayed by the predetermined software incorporated in the display part provided in the information-technology equipment being operated.

The user interface normally called GUI(Graphical User Interface) is employ[adopted and such a screen is tending to operate [ come ] a user.

While such an information-technology equipment improves performance, competition which achieves downsizing reduced-size so that it may be easy to carry an individual is performed.

Thus, if an information-technology equipment is downsize|size-reduced, naturally the display surface product of a display part will become small.

Therefore, the display material displayed on a display part by a predetermined software becomes small, and there exists a fault that the operativity of GUI falls.

A soft keyboard is concretely demonstrated about the fault as an example as what is displayed on the following, for example, a display part.

In addition, a "soft keyboard" shall mean the software which has a keyboard function in which a character can be inputted into an information-technology equipment.

#### **PROBLEM** to be solved by the Invention

FIGS. 25-27 is a figure which shows the displaying condition of the conventional soft keyboard each displayed on a display part.

In FIG. 25, a soft keyboard 106 has the full-size hiragana display area region 107, the full-size katakana

display area[region 108, and the half-width katakana display area[region 109, for example. Therefore, if a soft keyboard 106 is displayed on the small display part of a display surface product, requiring a big display surface product by character classification like that each character is hard to try to become small, a hiragana, katakana, full width, and half width will produce it.

In FIG. 26 (A)-(C), a soft keyboard 106 is made to display the character information of several character classification as one screen, in order to remove the fault of FIG. 25.

Therefore, a soft keyboard 106 has the full-size hiragana button 106a, the full-size katakana button 106b, and the half-width katakana button 106c, for example in addition to the display area]region for displaying character information.

In the soft keyboard 106 of FIG. 26 (A)-(C), although the full-size hiragana, the full-size katakana, and the half-width katakana as a character classification are distinguished and character information is displayed, a user needs to operate each button.

In FIG. 27, in order that a soft keyboard 106 may make small the area of the display area[region of the character information of FIG. 26 (A)-(C), a voiced consonant mark and a semivoiced consonant mark are added,

Or the input part (It is each the voiced-sound key 106e and the semivoiced-consonant-sound key 106f, or the small letter button 106b of FIG. 27.) for indicating a small letter display or a small letter display to a capital letter display by a capital letter in the soft keyboard which can input a Roman alphabet etc., for example is provided.

In such a soft keyboard 106, an operator has to switch to the character information of desired character classification one by one.

Then, this invention eliminates the said subject,

A character input can be performed easily and correctly and it aims at providing the information recording medium which recorded the program which has the small character input device, the character input method, and character inputting function of a display surface product of a character list display means.

#### MEANS to solve the Problem

The said objective is the state which each displayed several character information comprised in the character applicable to a specific character classification in this invention on the display means, and it is a character input device for instruct/indicating and inputting a desired character by the indication means for instruct/indicating the arbitrary characters of character information,

Comprising:

A character-information storing means to store character information,

The character-information display means for displaying the character list display means for displaying character information as a list, and the character classification display means for displaying the character applicable to at least 1 character classification in the arbitrary characters of character information on a display means,

#### It has these,

The character list display means for displaying several character information comprised in the character applicable to a specific character classification is displayed on a display means,

Indication means' instruction indication of the arbitrary characters of the character list display means will display the character classification display means for displaying the character applicable to at least 1 other character classification corresponding to the instruct indicated character on a display means,

If the character applicable to the arbitrary character classification of the character classification display means is instruct[indicated and released]separated by indication means, the character information applicable to the character classification of the character which was being displayed on the released]separated position will be displayed on a character list display means,

It is achieved by the character input device characterized by the above-mentioned.

In this invention, the character list display means for displaying several character information comprised in the character applicable to a specific character classification is displayed on a display means.

A user instruct indicates the arbitrary characters of a character list display means by indication means.

Then, the character classification display means for displaying the character applicable to at least 1 other character classification corresponding to the character instruct[indicated by indication means is displayed on a display means.

A user instruct indicates the desired character of a character classification display means by indication means, and releases separates indication means.

Thereby, the character information applicable to the character classification of the character currently displayed on the position released[separated in the character classification display means is displayed on a display means.

#### EMBODIMENT of the Invention

Hereafter, the preferred embodiment of this invention is demonstrated in detail based on an accompanying drawing.

In addition, Embodiment described below is a suitable example of this invention,

Therefore

Preferable various limitation is attached technically,

However,

The range in particular of this invention is not restricted to these forms, as long as there is no description to the effect of limiting this invention in the following description.

During the following description, "character classification" shows the combination of a direct sound, a voiced sound, a semivoiced consonant sound, palatal sounds, assimilated obstruent sound, a usual special character, a hiragana, katakana, these and full width, and half width, when inputting a Japanese language,

In inputting the language (For example, English etc.) of other than that, it shows a capital letter and a small letter.

"Character information" shows several characters for every character classification.

In order to carry out a character input in an information-technology equipment by the following description, a keyboard is displayed by a software,

However,

"Ki" shall show a displaying-with software applicable to key of normal keyboard key (softkey).

1st Embodiment

FIG. 1 is a perspective view which shows a mode that a character is inputted with respect to the character input device as 1st Embodiment of this invention.

The character input device 1 is an information-technology equipment for managing portable information, for example.

The character input device 1 has the display part 5 (display means) provided between the tablet 7 and the main body 1a so that it might contact adhere to the tablet 7 (indication means) provided in the 1 surface of the main body 1a as a housing, and the main body 1a, and a tablet 7.

The said display part 5 is a liquid crystal display, for example,

Soft keyboard 6 (The character list display means as a part of program which has a character inputting function) as a character input software mentioned later is displayed.

The said main body 1a has a control circuit 8 like FIG. 2 later mentioned to the inside.

FIG. 2 is a block diagram which shows the example of a structure which the control circuit in the character input device of FIG. 1 simplified.

The control circuit 8 has the control part 9, the storage part 11, the external storage part 13, a tablet 7 (indication means), and the display part 5 (display means).

In addition, a structure which is equipped what is called with a mouse mouth as a pointing device of the display part 5 etc. may be sufficient as the control circuit 8 instead of a tablet 7.

The said control part 9 is CPU (central processing unit), for example.

The control part 9 is connected with the storage part 11, the external storage part 13, the tablet 7, and the display part 5.

The control part 9 is controlling the character input-device 1 whole based on the information recorded on the recording part 11.

The said storage parts 11 are RAM(Randam Access Memory) and ROM(Read Only Memory), for example. The storage part 11 is workspace for soft keyboard 6 (And operating system etc.) to operate[move.

The said external storage part 13 is a hard disk, for example.

The external storage part 13 stores the soft keyboard 6 mentioned above.

If a soft keyboard 6 is started, it will be operate moved on the storage part 11, for example by the control part 9.

The description about a soft keyboard 6 is mentioned later.

The said tablet 7 is a touch panel of a pen touch type|mold, for example.

A user touches the predetermined position of a tablet 7 with this tablet 7 with the pointing device 3 (indication means) which carried out the shape where it was pen type and the destination sharpened, When the resistance layer of about two layers of upper and lower sides contacts, the voltage produced in a predetermined electrode changes,

The control part 9 of FIG. 2 mentioned later is an input device which recognizes the position.

A tablet 7 is a transparent member,

The display part 5 is arrange positioned at the lower layer.

Thereby, the user can visually recognize the display of the display part 5 now via the transparent tablet 7.

FIG. 3 is a functional block diagram illustrating the functional example of the soft keyboard of FIG. 1. A soft keyboard 6 has the drag|drug menu information table 17 (character-information storing means) and the character-information display means 19.

It shall say a "drag|drug" being the state in which the user made the front-end|tip 3a of the pointing device 3 contact soft keyboard 6 grade|etc., displayed on the display part 5, for example, and sliding the surface top of a tablet 7 by the following description.

The said drag|drug menu information table 17 stores the character for every character classification, for example.

The information (henceforth drag|drug menu information) for the drag|drug menu information table 17 to display the drag|drug menu 18 when a drag|drug menu 18 (character classification display means) like FIG. 8 is displayed by character-information display means 19 to mention later is read.

As an example of drag|drug menu information, it is a format like FIG. 4.

That is, the character for every character classification corresponding to the key pressed in the soft keyboard 6 at the time of touch (Hereafter, it says having pointed to the soft keyboard 6 with the pointing device 3.) of the tablet 7 being carried out is stored.

The said character-information display means 19 is a software which uses the storage part 11 as workspace, for example by control of the control part 9 of FIG. 2.

When the character-information display means 19 displays a soft keyboard 6 on the display part 5 of FIG. 1, it searches the drag|drug menu information table 17,

For example, character information is displayed for every character classification like FIG. 6 (A)-(C).

As for the character-information display means 19, a user touches a tablet 7 in the state (FIG. 7) as which the soft keyboard 6 was displayed on the display part 5 (this position is called the 1st position A).

For example, when displaying a drag|drug menu 18 like FIG. 8, the drag|drug menu information table 17 is searched and drag|drug menu information is displayed.

The character-information display means 19 displays a screen like FIG. 8 as a drag|drug menu 18 on the display part 5.

This drag|drug menu 18 displays the character applicable to all the character classification which searches the drag|drug menu information table 17 of FIG. 4, and corresponds based on the character touched with the pointing device 3.

Drag|drug menu 18,

Preferably the drag|drug menu information table 17 of FIG. 4 is searched,

It is good to divide into each character classification (selection branch of the drag|drug menu which FIG. 4 displays) of every per some characters like FIG. 8.

This is for being easy to recognize the character for every character classification, when a user uses a soft keyboard 6.

Although the example of a structure of the character input device was demonstrated above, the operation movement is demonstrated below.

FIG. 5 is a flowchart which shows the detailed operation example of the character-information display means in the character input device of FIG. 1.

By the following description, a soft keyboard 6 demonstrates from the state (The state as which the soft keyboard 6 of FIG. 7 was displayed on the display part 5 of FIG. 1) already started in the character input device 1.

In FIG. 5, "=" is meaning substituting the variable of a right side to the variable of a left side rather than means equal sign.

"==" means comparing a left side and a right side.

Moreover, there exist the following as a variable used on the storage part 11 of FIG. 2 which comes into play during description.

Input\_key variable : Definite input sentence character Pressed\_key variable: The pressed key Menu\_done variable : Flag showing in process of a drag[drug menu display

It is made (step ST1) and an input\_key variable at a blank space in the state as which the soft keyboard 6 was displayed,

Let a pressed\_key variable be an unfixed state,

False(It shows that the drag|drug menu 18 is non-display, and represents that the drag|drug menu 18 displays true.) is substituted to a menu\_done variable (step ST2).

The control part 9 of FIG. 2 detects the state of whether to have been touched [ user ] in the key by the pointing device 3.

It is confirmed whether it was touched by the user in the key and the drag|drug menu 18 was displayed (step ST4).

If the drag|drug menu 18 is not displayed, it is judged whether the key (softkey) was pressed (step ST14).

If it does not push and returns and pushes on step ST3, the key (corresponding code|cord) pushed on the press\_key variable will be substituted (step ST15), and the drag|drug menu information table 17 of FIG. 4 will be searched based on this press\_key variable,

The drag]drug menu 18 showing an applicable character is displayed (step ST16).

And true is substituted to a menu\_done variable (step ST17), and the character instruct[indicated by the pointing device 3 is reversed.

If the drag|drug menu 18 is displayed, it will be detected whether the user released|separated the pointing device 3 from the key (step ST5).

If it is not detecting and (step ST11) dragging whether the pointing device 3 dragged if it did not release]separate and is returning and dragging to step ST3, reversing display of the key from which it passed-through[fell-off by a drag[drug will be stopped,

The key which shows the area|region which approached by a drag|drug with a pointing device 3 is reverse-displayed (step ST12).

And the key (for example, character code) which approached is substituted to a pressed\_key variable (step ST13).

And it progresses to step ST3.

If it releases|separates, a pressed\_key variable will be substituted to an input\_key variable (that is, information of the pressed key substitution).

According to the character classification (character seed[species) of (For example, it corresponds to a character code) character stored in the pressed\_key variable, a soft keyboard 6 is re-displayed like either of the FIG. 6 (A)-(C) (step ST7).

And simultaneously, drag[drug menu 18 display is erase]eliminated (step ST8), and false is substituted to a menu\_done variable (step ST9).

A pressed\_key variable is made into an unfixed state (step ST10), and returns to step ST3.

The above demonstrates the internal processing of character-information display means 19 grade|etc.,

in detail,

Next, operation[movement of the character input device 1 at the time of seeing from the user side is demonstrated.

A user is using the software which inputs a character.

The user is going to input desired character ("U" or "ヴ") with the pointing device 3 like FIG. 8. However,

The character information of the character classification of a full-size hiragana is displayed on the character input device 1,

Therefore

A user touches "U" with a pointing device 3, in order to change a character classification on display.

As for a soft keyboard 6, the drag|drug menu 18 is displayed like FIG. 8 from the state of FIG. 7. When a user touches the arbitrary characters of the drag|drug menu 18 with a pointing device 3 like FIG. 9 (A), (For example, drag the drag|drug menu 18 for a pointing device 3 from the 1st position A.), The character information currently displayed on the soft keyboard 6 is changed into the character information which corresponds to the character classification of the character like FIG.9(B). In addition, what is necessary is just to touch parts other than drag|drug menu 18 to eliminate|eradicate the drag|drug menu 18 like FIG. 7.

On the other hand, when a user tries to input an English character with the character input device 1 In the state (The state as which "character information" was displayed is shown in this description.) as which the soft keyboard 6 was displayed like FIG. 10, if "n" as a character which it is going to input is touched with a pointing device 3, the drag|drug menu 18 will be displayed like FIG. 11.

In addition, it displays as the drag|drug menu 18 of FIG. 11 from the left in order of full width "N", "n", half width "N", and "n."

This order of a display is order stored, for example in the drag|drug menu information table 17 of FIG. 4. (In FIG. 4, since it is an example, only the Japanese character is stored.).

A user is going to input "N" of full width like FIG. 12 (A), and touches "N" of the drag|drug menu 18. Character classification becomes a display of full width like FIG.12(B) in a soft keyboard 6.

According to 1st Embodiment of this invention, the switching means (For example, button etc.) for switching the character classification required the part which can input a character with respect to the character input device 1 easily and correctly, and does not display character information for every character classification, and conventionally is unnecessary,

Being able to make small conventionally the display surface product of a soft keyboard 6, the operativity of GUI(Graphical User Interface) is good, and especially when especially the display area|region of the display part 5 is decided, it is effective.

2nd Embodiment

FIGS. 13-16 is a figure which shows the example of a display of the soft keyboard of the character input device as 2nd Embodiment of this invention.

The character input device 1 of FIGS. 13-16 is carrying out the same structure as 1st Embodiment,

The following points differ in the Japanese-language display method of the soft keyboard 6.

As for the display (1st character list display means) of the soft keyboard 6, only the head character of the Japanese kana syllabary is displayed like "A" and "KA" \*\*\* and "WA", for example like FIG. 13. A user touches the head character of a desired character with a pointing device 3, and displays line

drag|drug menu 16 (The 2nd character list display means abbreviated to the line menu 16 below) like FIG. 14.

A user touches the character of the same character classification as a desired character, and displays the drag|drug menu 18 like FIG. 15.

A user slides the drag|drug menu 18 for a pointing device 3 like FIG. 16 (A),

If the character ("ヴ") of desired character classification (katakana of full width) is touched with a pointing device 3, character classification will be changed into the katakana of full width like FIG.16(B).

According to 2nd Embodiment of this invention, in addition to the effect of 1st Embodiment, the display area/region of a soft keyboard 6 can be further made smaller than 1st Embodiment.

3rd Embodiment

FIGS. 17-20 is a figure which shows the example of a display of the soft keyboard of the character input device as 3rd Embodiment of this invention.

The character input device 1 of FIGS. 17-20 is carrying out the same structure as 1st Embodiment, The following points differ in the display method of the drag|drug menu 18 of the soft keyboard 6.

A soft keyboard 6 like FIG. 17 is displayed on the display part 5 of the character input device 1. A user touches a desired character like FIG. 18 (releasing|separating immediately), and decides and inputs a character.

On the other hand, when changing the character classification displayed on a soft keyboard 6, as for a user, the drag|drug menu 18 is displayed in the place which touched arbitrary characters and passed for a fixed time with the pointing device 3 like FIG. 19.

The method to select character classification hereafter is the same as that of 1st Embodiment, Character classification can be changed like FIG. 20 and character information can be displayed.

Clear in that a user inputs a character with a pointing device 3 in addition to the effect of 1st Embodiment, and displaying the drag|drug menu 18 according to 3rd Embodiment of this invention - and it can carry out easily and quick.

#### 4th Embodiment

FIGS. 21-23 is a figure which shows the example of a display of the soft keyboard of the character input device as 4th Embodiment of this invention.

The character input device 1 of FIGS. 21-23 is carrying out the same structure as 1st Embodiment,

In the display method of the drag|drug menu 18 of the soft keyboard 6, 1st Embodiment differs from the following points.

In the soft keyboard 6 displayed like FIG. 21 (A), if a user touches a desired character like FIG.21(B) and releases[separates immediately, a character will be selected and inputted.

In order to change the character classification currently displayed in the soft keyboard 6 and to display the drag[drug menu 18, a user instruct]indicates arbitrary characters ("U") for a pointing device 3 like FIG. 22 (A),

The area region of "U" is then slid like FIG.22(B) -- making (it being made to drag) -- the drag drug menu 18 is displayed like FIG. 23.

And the drag[drug menu 18 is displayed in this way, and the character classification of a character on display is changed like 1st Embodiment.

In addition, the direction dragged by a pointing device 3 is not restricted to what was mentioned above, but the contrary may be sufficient as it and it should just slide the inside of the area region.

According to 4th Embodiment of this invention, the effect of 3rd Embodiment and the same effect can be raised.

By the way, this invention is not limited to Embodiment mentioned above.

In Embodiment mentioned above, the drag|drug menu 18 is arranged on the straight line about the substantially identical character like FIG. 24 (A),

For example, you may make it arrange in the vertical direction like FIG.24(B).

Moreover, the display method that the character for every character classification is horizontally arrange|positioned further perpendicularly [ character ] per character classification like FIG.24(C) may be sufficient as the drag|drug menu 18.

By arranging in this way, a character can be arranged in the narrow range.

Moreover, a character is perpendicularly arranged per character classification like FIG. 24 (D),

You may make it arrange/position each character classification unit transversely.

By arranging in this way, a character can be arranged in the narrow range.

In addition, it cannot be overemphasized that a form which is stored, for example in the compact disk or the floppy disk (flexible disc) may be sufficient as the program (soft keyboard 6) which has the abovementioned character inputting function.

#### **ADVANTAGE of the Invention**

As explained above, according to this invention, a character input can be performed easily and correctly and the information recording medium which recorded the program which has the small character input device, the character input method, and character inputting function of a display surface product of a character list display means can be provided.

#### BRIEF DESCRIPTION OF THE DRAWINGS

[FIG. 1]

The perspective view which shows a mode that a character is inputted with respect to the character input device as 1st Embodiment of this invention. [FIG. 2] The block diagram which shows the example of a structure which the control circuit in the character input device of FIG. 1 simplified. [FIG. 3] The functional block diagram illustrating the functional example of the soft keyboard of FIG. 1. [FIG. 4] The figure which shows the content of the drag[drug menu information table of FIG. 3. [FIG. 5] The flowchart which shows the detailed operation example of the character-information display means in the character input device of FIG. 1. [FIG. 6] The figure which shows the example of a display of the soft keyboard displayed on the display part of FIG. 1. [FIG. 7] The figure which shows the example of a display of the soft keyboard displayed on the display part of FIG. 1. [FIG. 8] The figure which shows the example of a display of the soft keyboard displayed on the display part of FIG. 1. [FIG. 9] The figure which shows the example of a display of the soft keyboard displayed on the display part of FIG. 1. [FIG. 10] The figure which shows the example of a display of the soft keyboard displayed on the display part of FIG. 1. [FIG. 11] The figure which shows the example of a display of the soft keyboard displayed on the display part of FIG. 1. [FIG. 12] The figure which shows the example of a display of the soft keyboard displayed on the display part of FIG. 1. [FIG. 13] The figure which shows the example of a display of the soft keyboard of the character input device as 2nd Embodiment of this invention. [FIG. 14] The figure which shows the example of a display of the soft keyboard of the character input device as 2nd Embodiment of this invention. [FIG. 15] The figure which shows the example of a display of the soft keyboard of the character input device as 2nd Embodiment of this invention. [FIG. 16] The figure which shows the example of a display of the soft keyboard of the character input device as 2nd Embodiment of this invention. [FIG. 17] The figure which shows the example of a display of the soft keyboard of the character input device as