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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
61/902,242	11/10/2013		130	2104-052-C44-USP		

CONFIRMATION NO. 5988

FILING RECEIPT



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32964
DEKEL PATENT LTD., DAVID KLEIN
BEIT HAROF'IM
18 MENUHA VENAHALA STREET, ROOM 27
REHOVOT, 76209
ISRAEL

Date Mailed: 11/19/2013

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Inventor(s)

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Applicant(s)

Benjamin Firooz Ghassabian, Jerusalem, ISRAEL;

Power of Attorney:

David Klein--41118

If Required, Foreign Filing License Granted: 11/18/2013

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 61/902,242**

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

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

DATA ENTRY SYSTEMS

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

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page 1 of 3

application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

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Title 37, Code of Federal Regulations, 5.11 & 5.15

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Approved for use through 06/30/2010 OMB 0651-0032

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Provisional Application for Patent Cover Sheet					
This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c)					
Inventor(s)					
Inventor 1					Remove
Given Name	Middle Name	Family Name	City	State	Country i
Benjamin	Firooz	Ghassabian	Jerusalem		IL
All Inventors Must Be Listed – Additional Inventor Information blocks may be generated within this form by selecting the Add button.					Add
Title of Invention		IMPROVED DATA ENTRY SYSTEMS			
Attorney Docket Number (if applicable)		2104-052-C44-USP			
Correspondence Address					
Direct all correspondence to (select one):					
☒ The address corresponding to Customer Number			☐ Firm or Individual Name		
Customer Number			32964		

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.	
☒ No.	
☐ Yes, the name of the U.S. Government agency and the Government contract number are:	

Entity Status

Applicant claims small entity status under 37 CFR 1.27

☒ Yes, applicant qualifies for small entity status under 37 CFR 1.27☐ No**Warning**

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Signature

Please see 37 CFR 1.4(d) for the form of the signature.

Signature	/David Klein/			Date (YYYY-MM-DD)	2013-11-10
First Name	David	Last Name	Klein	Registration Number (If appropriate)	41118

This collection of information is required by 37 CFR 1.51. 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 8 hours 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. **This form can only be used when in conjunction with EFS-Web. If this form is mailed to the USPTO, it may cause delays in handling the provisional application.**

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Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		IMPROVED DATA ENTRY SYSTEMS		
First Named Inventor/Applicant Name:		Benjamin Firooz Ghassabian		
Filer:		David L. Klein		
Attorney Docket Number:		2104-052-C44-USP		
Filed as Small Entity				
Provisional Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Provisional Application Filing Fee	2005	1	130	130
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				130

Electronic Acknowledgement Receipt	
EFS ID:	17360655
Application Number:	61902242
International Application Number:	
Confirmation Number:	5988
Title of Invention:	IMPROVED DATA ENTRY SYSTEMS
First Named Inventor/Applicant Name:	Benjamin Firooz Ghassabian
Customer Number:	32964
Filer:	David L. Klein
Filer Authorized By:	
Attorney Docket Number:	2104-052-C44-USP
Receipt Date:	10-NOV-2013
Filing Date:	
Time Stamp:	12:01:11
Application Type:	Provisional

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Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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1	Specification	2104-052-C44-desc-clean.pdf	41957 a3c09bc35994be70d5ae7bf162b2b0e9ae72eab	no	4
Warnings:					
Information:					
2	Drawings-only black and white line drawings	2104-052-C44-figs-501-precise-and-or-amb.pdf	29461 733b7bdb070a9af38d8bb827d292c93c1ac41df9	no	1
Warnings:					
Information:					
3	Transmittal of New Application	2104-052-C44-transmit.pdf	869331 3c8a610080ec64853f91058d2b021e1e2f45d8e9	no	3
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	29747 48b422285691377e427eb79daa3ef07d369a2295	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			970496		
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. <u>New Applications Under 35 U.S.C. 111</u> 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. <u>National Stage of an International Application under 35 U.S.C. 371</u> 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. <u>New International Application Filed with the USPTO as a Receiving Office</u> 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.					

Date: 10/November/2013

US Provisional Patent Application

Our ref: 052-c43

Title: IMPROVED DATA ENTRY SYSTEMS

Inventor: BENJAMIN FIROOZ GHASSABIAN

This application is part of the previous US Provisional Patent Applications:

The present application claims priority from US patent applications:

- application number 61599000 filed on February-15th, 2012
- application number 61601143 filed on February-21st, 2012;
- application number 61603390 filed on February-26th, 2012;
- application number 61608181 filed on March-8th, 2012;
- application number 61612509 filed on March-19th, 2012;
- application number 61613580 filed on March-21th, 2012;
- application number 61617224 filed on March-29th, 2012;
- application number 61620525 filed on April-5th, 2012 ;
- application number 61637384 filed on April-24th, 2012;
- application number 61641378 filed on May 2nd, 2012;
- application number 61647611 filed on May 16th, 2012;
- application number 61649322 filed on May 20th, 2012;
- application number 61651089 filed on May 24th, 2012;
- application number 61652950 filed on May 30th, 2012;
- application number 61656091 filed on June 06th, 2012;
- application number 61659536 filed on June 14th, 2012;
- application number 61660755 filed on June 17th, 2012;
- application number 61661390 filed on June 19th, 2012;
- application number 61663582 filed on June 24th, 2012;
- application number 61669152 filed on July 09th, 2012;
- application number 61671741 filed on July 15th, 2012;
- application number 61674358 filed on July 22th, 2012;
- application number 61679858 filed on August 06th, 2012;
- application number 61683219 filed on August 15th, 2012;
- application number 61697414 filed on September 6th, 2012;
- application number 61699408 filed on September 11th, 2012;
- application number 61704682 filed on September 24th, 2012;
- application number 61705164 filed on September 25th, 2012;
- application number 61711798 filed on October 10th, 2012;
- application number 61714842 filed on October 17th, 2012;
- application number 61718297 filed on October 25th, 2012;
- application number 61723860 filed on November 08th, 2012;

- application number 61730130 filed on November 27th, 2012 ;
- application number 61730584 filed on November 28th, 2012;
- application number 61737951 filed on December 17th, 2012;
- application number 61746581 filed on December 28th, 2012;
- application number 61749338 filed on January 06th, 2013;
- application number 61754707 filed on January 21th, 2013;
- application number 61760770 filed on February 5th, 2013;
- application number 61761321 filed on February 6th, 2013;
- application number 61764078 filed on February 13th, 2013;
- application number 61765751 filed on February 17th, 2013;
- application number 61766747 filed on February 19th, 2013;
- application number 61769285 filed on February 26th, 2013;
- application number 61772066 filed on March 4th, 2013;
- application number 61774605 filed on March 8th, 2013;
- application number 61777102 filed on March 12th, 2013;
- application number 61778888 filed on March 13th, 2013;
- application number 61802690 filed on March 17th, 2013;
- application number 61803456 filed on March 20th, 2013;
- application number 61804681 filed on March 24th, 2013;
- application number 61810805 filed on April 11th, 2013;
- application number 61811756 filed on April 14th, 2013;
- application number 61813271 filed on April 18th, 2013;
- application number 61814290 filed on April 21st 2013;
- application number 61819598 filed on May 5th 2013;
- application number 61821331 filed on May 9th 2013;
- application number 61822934 filed on May 14th 2013;
- application number 61823971 filed on May 16th 2013;
- application number 61825049 filed on May 17th 2013;
- application number 61827020 filed on May 24th 2013;
- application number 61830114 filed on June 02nd 2013;
- application number 61833512 filed on June 11th 2013;
- application number 61833991 filed on June 12th 2013 ;
- application number 61834889 filed on June 14th 2013;
- application number 61835704 filed on June 17th 2013;
- application number 61837662 filed on June 21th 2013;
- application number 61838288 filed on June 23th 2013;
- application number 61838403 filed on June 24th 2013;
- application number 61841360 filed on June 30th 2013;
- application number 61843391 filed on July 07th 2013;
- application number 61846030 filed on July 14th 2013;
- application number 61858210 filed on July 25th 2013;
- application number 61860396 filed on July 31st 2013;
- application number 61865254 filed on August 13th 2013;
- application number 61866119 filed on August 15th 2013;
- application number 61868172 filed on August 21st 2013;
- application number 61869722 filed on August 25th 2013;
- application number 61875192 filed on September 09th 2013;
- application number 61878695 filed on September 17th 2013;
- application number 61879152 filed on September 18th 2013;
- application number filed on September 25th 2013;

- application number 61893291 filed on October 21st 2013; and
- application number 61899240 filed on November 03rd 2013.

The drawings and text of the above applications are entirely incorporated herein by reference.

The titles used in this application and in the related applications may preferably not be considered as part of the descriptions.

-Prediction based on user's typing behaviors (e.g. considering x, y, on touch)

- **If typing on a approximately same Y, considers as typing (e.g. fully) ambiguous (Method1)**
- **If typing on different Y, considers as typing (e.g. at least partially) precisely (Method2).**
 - o **Considers all of typing precisely (e.g. N precise)**
 - o **Considers at least one of them precise (e.g. N-1 to 1)**
 - o **If does not find a word may consider the neighboring letters of at least one of the touched area.**
 - o **2 different Y on the right zones and/or 2 different Y on left zones, or on the 5th zone**

-First predicts based on the detected method of typing, then if needed, the other method.

-Can be used with Spell-Help too

-Can combine methods1 and method2

The prediction of the words using the data entry system may dynamically vary based on some parameters. According to one embodiment of the invention, based on users' interaction with the keyboard during the entry of a chain of characters such as a word, the system may automatically use various methods of prediction.

According to a first procedure, during the entry of a word if two impact point(s) on a predefined area (e.g. the right side or the left side of the keyboard, preferably defined by a line that separates the right and left keys/zone) of a keyboard are located within the same (e.g. preferably vertical) axis, where said axis has a predefined width, may preferably inform the system that each of the input signals, of a corresponding impact, ambiguously corresponds to any of the characters assigned to the corresponding key/zone (e.g. herein may be referred to an ambiguous input signal). As an example, in Fig. 501A, tapping on twice on the letter 't' 501011 may ambiguously correspond to several words, such as, 'it' and 'up'. As another example, tapping on the letter 't' 501001, 'g' 501012, 'g' 501012, may ambiguously correspond to several words, such as 'too' and 'log'.

According to a second procedure, during the entry of a word if two impact point(s) on a predefined area of a keyboard are not located within the same (e.g. preferably vertical) axis, may preferably inform the system that each of the input signals, of a corresponding impact, precisely corresponds to an identified character on and/or near which the impact was provided (e.g. herein may be referred to an unambiguous input signal). As an example, in Fig 501A, tapping on the letter 'u' 501021 and the letter 'p' 501022 may precisely correspond to the word 'up'. According to another example, tapping the letter 'h' 501031 and the letter 'i' 501032 may precisely correspond to the word 'hi'. Note that the system may use a word completion software to (e.g. also) predict longer words including one or more identified characters. Note that, preferably, one of the words predicted as such, may be entered by providing a preferred interaction, such as pressing the space key.

Note that in the first procedure, preferably, in addition to relating the impacts to ambiguous input signals, the system may also relate said interactions to unambiguous input signals and propose a corresponding chain of unambiguous characters. Note that in the second procedure, preferably, in

addition to relating the impacts to unambiguous input signals, the system may also relate said interactions to ambiguous input signals and propose one or more corresponding words.

According to one method, upon determining a procedure, the system may preferably first propose one or more words based on said procedure. If needed, the system may (e.g. further) propose one or more words based on another procedure (e.g. the other procedure).

Note that the first and second procedures may be combined to predict one or more words. As an example, during the entry of a word, one or more impacts may be related by the system to ambiguous input signal(s) and one or more impacts may be related to unambiguous input signal(s). As an example, during the entry of a word, if the majority of impacts are provided within the same (e.g. vertical) axis, and one or more other impacts are provided outside said axis, the system may preferably relate the impacts inside said axis to ambiguous input signals and may preferably relate those impacts outside said axis to unambiguous input signals. The system may propose one or more words accordingly.

The procedures described above/herein, may be used with any of the other methods of the word/text prediction systems. As an example, said procedures may be used/combined with the Spell Help methods of the invention.

Note that the procedures described above, are exemplary procedures. More procedures based on user interaction/behavior may be considered by those skilled in the art. As an example, during the entry of a word, (e.g. preferably, if one or more of the impacts is provided outside an axis in which a number of impacts are provided), the system may propose one or more words based on the following considerations: (1) the system considers all of said impacts (e.g. N impacts) as unambiguous input signals, (2) the system considers at least one of the impacts as being an ambiguous input signal (e.g. from 1 to N impacts). A such ambiguous input signal may preferably be related either to the key/zone on which the impact is provided or it may be preferably related to one or more character(s) on or located nearby said corresponding impact. Optionally, said ambiguous input signal may be related by the system to any character.

Note that based on user behavior such as typing with one or two hands the system may or may not relate the impacts to corresponding to ambiguous and/or unambiguous input signals. As an example, in Fig. 501B, the impacts 501111, 501112, and 501113 the system may not be able to relate said impacts to a first or a second procedure because if said impacts are provided by one finger they preferably should be related precise characters (e.g. only to the word 'can'), while if the impacts are provided by two hands then the user may have been related to ambiguous input signals. In this case, preferably, the system may consider each of the corresponding procedures to predict one or more words. In Fig. 501C, in addition to the impacts 501111, 501112, and 501113, the user has provided two more impacts 501114 and 501115. In this case, the system may preferably, at first, relate said impacts to unambiguous input signals because the left impacts 501112 and 501114 are provided on different vertical axis.

