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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

michael.mathewson@wilmerhale.com
teresa.carvalho@wilmerhale.com
sharon.matthews@wilmerhale.com

Office Action Summary	Application No. 11/246,432	Applicant(s) ARAVAMUDAN ET AL.	
	Examiner Huen Wong	Art Unit 2169	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 December 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 34-65 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 34-65 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 07 October 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. **Claims 34-65** are presented for examination.
2. The claims and only the claims form the metes and bounds of the invention. "Office personnel are to give claims their broadest reasonable interpretation in light of the supporting disclosure. In re Morris, 127 F.3d 1048, 1054-55, 44 USPQ2d 1023, 1027-28 (Fed. Cir. 1997). Limitations appearing in the specification but not recited in the claim are not read into the claim. In re Prater, 415 F.2d 1393, 1404-05, 162 USPQ 541, 550-551 (CCPA 1969)" (MPEP p 2100-8, c 2, I 45-48; p 2100-9, c 1, I 1-4). The Examiner has full latitude to interpret each claim in the broadest reasonable sense. The Examiner will reference prior art using terminology familiar to one of ordinary skill in the art. Such an approach is broad in concept and can be either explicit or implicit in meaning.

Response to Arguments

3. Applicant's arguments have been considered, but they are not persuasive (see *below*). However, the Examiner welcomes any suggestion Applicant's Representative may have on moving prosecution forward.

4. **Applicant argues:**

Dutta does not teach or suggest adjusting the relevance value assigned to at least one term associated with an items based on the number of text characters received from the user as part of a search string to identify a desired item. Rather, Dutta discloses adjusting popularity weights associated with an item up or down depending on whether the item is selected from a list of possible search results. See Dutta at col. 4, lns. 31-67. Dutta explains that, "Only after selection is the popularity weight for the selected

URL/keyword pair adjusted upward.” See Dutta at col. 5, lns.55-56 (emphasis added). In other words, Dutta is only concerned with “tracking the popularity of search results for the purpose of determining how to present or order search results in future searches.” See Dutta at col. 6, lns. 41-44. Dutta completely ignores the number of text characters that is part of the search query entered by the user.

In response, the Examiner respectfully disagrees and submits:

Dutta is concerned with adjusting and tracking weight values of URL items. Claim 34 recites “adjusting the relevance value ... based on the number of text characters received from the user”, but does not recite limitation that requires said adjusting to be done without selection. *Dutta* does not ignore user’s request input.

5. Applicant further argues:

The Examiner states that the term “number can be interpreted as a group of one kind”. See Office Action at pg. 4. Applicants disagree with the Examiner, as the Application clearly describes the “number of text characters” as an enumeration of the characters in the user’s search string. See Application at ¶¶ 38-40. See also M.P.E.P at § 2111 (“During patent examination, the pending claims must be ‘given their broadest reasonable interpretation consistent with the specification.’”). However, even if the Examiner’s meaning is applied to the terms of claim 34, Dutta still does not teach or suggest the Examiner’s interpretation of the claim limitation, as Dutta simply does not teach adjusting relevance weights based on the user’s search input, as explained in more detail above.

In response, the Examiner respectfully disagrees and submits:

“*Enumeration* of characters in the user’s search string” is not found in Applicant’s Specification. Also, Applicant’s Specification does not appear to definitely assign a specific interpretation to “number of text characters”. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Dutta teaches said adjusting of at least one relevance weight value *based on* user’s request input because the request input is used for said adjusting.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. **Claims 34-40, 43, 45-56, 59, and 61-65 are rejected under U.S.C 103(a) as being unpatentable over US Patent 6480837 by Dutta, in view of US PGPUB 2005/0283468 by Kamvar et al. (hereinafter “Kamvar”).**

8. As to **claim 34**, *Dutta* teaches a method of processing a search request received from a user operating a hand-held text input device, the search request directed at identifying a desired item from a set of items, each of the items having one or more associated terms, the method comprising:

providing the set of items, **the items having assigned popularity values to indicate a relative measure of a likelihood that the item is desired by the user**

(*Dutta*: Fig. 2, Col. 4 Lines 31-42, Col. 5 Lines 7-20; averages of weights);

for each item, **associating a set of terms to describe the item and assigning a relevance value for each term based on a relevance of the term in identifying the item** (*Dutta*: Fig. 2, Col. 4 Lines 20-42, Col. 5 Lines 7-20; weights);

receiving text on the hand-held text input device entered by the user, the text having one or more text characters of one or more terms the user is using to identify a desired item (*Dutta*: Fig. 2, Col. 3 Lines 60-65, Col. 4 Lines 20-42, Col. 5 Lines 7-20; Col. 6 Lines 33-36; matching keywords);

in response to receiving text characters, **performing an incremental find** (*Dutta*: Fig. 2, Fig. 3a, Fig. 3b, Col. 3 Lines 60-65, Col. 4 Lines 20-42, Col. 5 Lines 7-20; Col. 6 Lines 33-36; matching keywords; also, searching incrementally by adding more search keywords and clicking on search button (*result set too large*) or erasing search keywords and clicking on search button (*result set too small*) is well-known) to **compare the user-entered terms with the terms associated with the items and to retrieve the relevance values for user-entered terms matching terms associated with the items** (*Dutta*: Fig. 2, Fig. 3a, Fig. 3b, Col. 3 Lines 60-65, Col. 4 Lines 20-42, Col. 5 Lines 2-20; Col. 6 Lines 33-36; receive search keywords; also, matching keywords; further, weights and averages of weights);

adjusting the relevance value assigned to at least one of the terms associated with one or more of the items retrieved in response to the user-

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entered terms based on the number of text characters received from the user

(*Dutta*: Fig. 2, Fig. 3a, Fig. 3b, Col. 3 Lines 60-65, Col. 4 Lines 20-43 & 64-67, Col. 5 Lines 2-20 & 29-33 & 50-56, Col. 6 Lines 33-36; adjustment of weights; *number can be interpreted as a group of one kind*); **and**

ordering and presenting one or more items to the user based on (a) the assigned popularity values of the items (*Dutta*: Fig. 2, Fig. 3a, Fig. 3b, Abstract, Col. 3 Lines 60-65, Col. 4 Lines 20-50 & 64-67, Col. 5 Lines 2-20 & 29-33 & 50-56, Col. 6 Lines 33-36; adjustment of weights; also, ordering) and (b) on a weighing of the adjusted relevance values for user-entered terms matching terms associated with the items (*Dutta*: Fig. 2, Fig. 3a, Fig. 3b, Abstract, Col. 3 Lines 60-65, Col. 4 Lines 20-50 & 64-67, Col. 5 Lines 2-20 & 29-33 & 50-56, Col. 6 Lines 33-36; adjustment of weights; also, ordering) the order of the items is adjusted as characters are entered (*Dutta*: Fig. 2, Fig. 3a, Fig. 3b, Abstract, Col. 3 Lines 60-65, Col. 4 Lines 20-50 & 64-67, Col. 5 Lines 2-20 & 29-33 & 50-56, Col. 6 Lines 33-36; adjustment of weights; also, ordering; one of ordinary skill would recognize that weights of search keywords continue to adjust and, as such, ordering based on these adjusted weights continues to adjust as search keywords consisting of characters are used to activate search).

Dutta discloses **receiving text having one or more text characters of one or more terms the user is using to identify a desired item**, but does not explicitly disclose **receiving text having one or more text characters of one or more prefixes for terms the user is using to identify a desired item**. Also, *Dutta* discloses in response to receiving text characters, **performing an incremental find to compare**

the user-entered terms with the terms associated with the items and to retrieve the relevance values for user-entered terms matching terms associated with the items, but does not explicitly disclose in response to **receiving a text character**, **performing an incremental find to compare the user-entered prefixes with the terms associated with the items and to retrieve the relevance values for user-entered prefixes matching terms associated with the items**. Also, *Dutta* discloses **adjusting the relevance value assigned to at least one of the terms associated with one or more of the items retrieved in response to the user-entered terms based on the number of text characters received from the user**, but does not explicitly disclose **adjusting is in response to the user-entered prefixes**. Further, *Dutta* discloses ordering and presenting one or more items to the user based on (a) the assigned popularity values of the items and (b) on a weighing of the **adjusted** relevance values for user-entered terms matching terms associated with the items, but does not explicitly disclose based on a weighing of the **adjusted** relevance values for user-entered prefixes matching terms associated with the items.

However, *Kamvar* discloses **receiving text having one or more text characters of one or more prefixes for terms the user is using to identify a desired item** (*Kamvar*: Pgs. 3-4, ¶0002, ¶ 0041 - ¶ 0049; Fig. 6; Fig. 7; wherein *Kamvar* discloses that as characters are included in search query, matching items are identified; e.g. those items identified by "Bri" and those items identified by "Britney"; also, top N most popular search terms),

in response to **receiving a text character, performing an incremental find to**

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compare the user-entered prefixes with the terms associated with items and to retrieve the relevance values for user-entered prefixes matching terms associated with items (*Kamvar*: Pgs. 3-4, ¶ 0002, ¶ 0020, ¶ 0031, ¶ 0041 - ¶ 0049; Fig. 6; Fig. 7; wherein *Kamvar* discloses that as characters are included in search query, matching items are identified; e.g. those items identified by "Bri" and those items identified by "Britney");

user-entered prefixes as search terms that activate searches as more characters are inputted (*Kamvar*: Pgs. 3-4, ¶ 0002, ¶ 0020, ¶ 0031, ¶ 0041 - ¶ 0049; Fig. 1, Fig. 6; Fig. 7; portion or a few characters of query sent to search engine; also, as characters are included in search query, matching items are identified; e.g. those items identified by "Bri" and those items identified by "Britney") in order to speed up query search by continuously sending search terms (including prefixes of search terms) to search engine (*Kamvar*: Pgs. 3-4, ¶ 0002, ¶ 0020, ¶ 0028-¶ 0031, ¶ 0041 - ¶ 0049; Fig. 1, Fig. 6; Fig. 7).

It would have been obvious to one having ordinary skill in the art and the teachings of *Dutta* and *Kamvar* before them at the time the present invention was made to incorporate *Kamvar*'s features of **receiving text having one or more text characters of one or more prefixes for terms the user is using to identify a desired item** (*Kamvar*: Pgs. 3-4, ¶ 0002, ¶ 0041 - ¶ 0049; Fig. 6; Fig. 7; wherein *Kamvar* discloses that as characters are included in search query, matching items are identified; e.g. those items identified by "Bri" and those items identified by "Britney"; also, top N most popular search terms),

in response to **receiving a text character, performing an incremental find to compare the user-entered prefixes with the terms associated with items and to retrieve the relevance values for user-entered prefixes matching terms associated with items** (*Kamvar*: Pgs. 3-4, ¶ 0002, ¶ 0031, ¶ 0041 - ¶ 0049; Fig. 6; Fig. 7; wherein *Kamvar* discloses that as characters are included in search query, matching items are identified; e.g. those items identified by "Bri" and those items identified by "Britney"); and

user-entered prefixes as search terms that activate searches as more characters are inputted (*Kamvar*: Pgs. 3-4, ¶ 0002, ¶ 0020, ¶ 0031, ¶ 0041 - ¶ 0049; Fig. 1, Fig. 6; Fig. 7; portion or a few characters of query sent to search engine; also, as characters are included in search query, matching items are identified; e.g. those items identified by "Bri" and those items identified by "Britney) with the *Dutta's* method.

The suggestions/motivations for doing so would have been to speed up query search by continuously sending search terms (including prefixes of search terms) to search engine (*Kamvar*: Pgs. 3-4, ¶ 0002, ¶ 0020, ¶ 0028-¶ 0031, ¶ 0041 - ¶ 0049; Fig. 1, Fig. 6; Fig. 7).

Claim 50, a system claim, contains subject matter similar claim 34 and is rejected on the same ground.

9. As to **claim 35**, the combination of *Dutta* and *Kamvar* teaches the method of claim 34. *Kamvar* further discloses the terms associated with the items being organized into searchable subspace categories (*Kamvar*: Pg. 4, ¶ 0043 - ¶ 0051; Fig. 6; Fig. 7), each subspace category having a relevance bias value, wherein ordering and

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presenting the one or more items is further based on the relevance bias values of the subspace categories (*Kamvar*: Pg. 4, ¶ 0043 - ¶ 0051; Fig. 6; Fig. 7; wherein *Kamvar* discloses "popularity", "user profiles", "user information", measure of how recent an item is and the difference in order due to length of query string).

Claim 51, a system claim, contains subject matter similar claim 35 and is rejected on the same ground.

10. As to **claim 36**, the combination of *Dutta* and *Kamvar* teaches the method of claim 35. *Kamvar* further discloses wherein the relevance bias values are based on the number of text characters received from the user (*Kamvar*: Pg. 4, ¶ 0043 - ¶ 0051; Fig. 6; Fig. 7; wherein *Kamvar* discloses "popularity", "user profiles", "user information", measure of how recent an item is and the difference in order due to length of query string).

Claim 52, a system claim, contains subject matter similar claim 36 and is rejected on the same ground.

11. As to **claim 37**, the combination of *Dutta* and *Kamvar* teaches the method of claim 35. *Kamvar* further discloses wherein the subspace categories include a personalized history category containing terms associated with items identified from previous incremental finds conducted by the user (*Kamvar*: Pgs. 3-4, ¶ 0041 - ¶ 0051; Fig. 6; Fig. 7; wherein *Kamvar* discloses previous search requests).

Claim 53, a system claim, contains subject matter similar claim 37 and is rejected on the same ground.

12. As to **claim 38**, the combination of *Dutta* and *Kamvar* teaches the method of claim 35. *Kamvar* further discloses wherein the ordering and presenting of one or more items is limited to items having associated terms of one or more selected subspace categories *Kamvar*: Pg. 4, ¶ 0043 - ¶ 0051; Fig. 6; Fig. 7; wherein *Kamvar* discloses "popularity", "user profiles", "user information", measure of how recent an item is and the difference in order due to length of query string.

Claim 54, a system claim, contains subject matter similar claim 38 and is rejected on the same ground.

13. As to **claim 39**, the combination of *Dutta* and *Kamvar* teaches the method of claim 38. *Kamvar* further discloses wherein the one or more selected subspace categories are selected based on the number of text characters received from the user (*Kamvar*: Pg. 4, ¶ 0043 - ¶ 0051; Fig. 6; Fig. 7; wherein *Kamvar* discloses "popularity", "user profiles", "user information", measure of how recent an item is and the difference in order due to length of query string).

Claim 55, a system claim, contains subject matter similar claim 39 and is rejected on the same ground.

14. As to **claim 40**, the combination of *Dutta* and *Kamvar* teaches the method of claim 35 *Kamvar* further discloses the ordered and presented one or more items are presented on a display device, the display device having display space allocated according to the subspace categories (*Kamvar*: Pg. 4, ¶ 0043 - ¶ 0049; Fig. 6; Fig. 7; Fig. 10; Fig. 11).

Claim 56, a system claim, contains subject matter similar claim 40 and is rejected on the same ground.

15. As to **claim 43**, the combination of *Dutta* and *Kamvar* teaches the method of claim 34. *Dutta* further discloses wherein the ordered and presented one or more items are presented on a display constrained device (*Dutta*: Fig. 1, Fig. 2, Fig. 3a, Fig. 3b, Col. 3 Lines 47-65, Col. 4 Lines 20-50 & 64-67, Col. 5 Lines 2-20 & 29-33 & 50-56; Col. 6 Lines 33-36; network and client submits searches to search engine; also, display of results; all displays have size constraints).

Claim 59, a system claim 43, contains subject matter similar to claim 48 and is rejected on the same ground.

16. As to **claim 45**, the combination of *Dutta* and *Kamvar* teaches the method of claim 34. *Dutta* further discloses wherein the assigned popularity values of one or more items of the set of items is based on a relative measure of popular opinion of the item (*Dutta*: Fig. 2, Fig. 3a, Fig. 3b, Col. 3 Lines 60-65, Col. 4 Lines 20-43 & 64-67, Col. 5 Lines 2-20 & 29-33 & 50-56, Col. 6 Lines 33-36; weights and averages of weights, adjustment of weights).

Claim 61, a system claim 45, contains subject matter similar to claim 48 and is rejected on the same ground.

17. As to **claim 46**, the combination of *Dutta* and *Kamvar* teaches the method of claim 34, wherein the assigned popularity values of one or more items of the set of items is based on a temporal relevance of the items or a location relevance of the items.

Dutta further discloses wherein the assigned popularity values of one or more items of the set of items is based on a temporal relevance of the items or a location relevance of the items (*Dutta*: Fig. 2, Fig. 3a, Fig. 3b, Col. 3 Lines 60-65, Col. 4 Lines 20-43 & 64-67, Col. 5 Lines 2-20 & 29-33 & 50-56, Col. 6 Lines 33-36; weights and averages of weights, adjustment of weights based on matches and frequency of matches)

Claim 62, a system claim, contains subject matter similar claim 46 and is rejected on the same ground.

18. As to **claim 47**, the combination of *Dutta* and *Kamvar* teaches the method of claim 34. *Dutta* discloses wherein ordering and presenting the one or more items is further based on the number of terms of the received text (*Dutta*: Fig. 1, Fig. 2, Fig. 3a, Fig. 3b, Col. 3 Lines 47-65, Col. 4 Lines 20-42, Col. 5 Lines 7-20; Col. 6 Lines 33-36. *Dutta* does not explicitly disclose wherein ordering and presenting the one or more items is further based on the number of prefixes of the received text.

However, *Kamvar* discloses **user-entered prefixes** as search terms that activate searches as more characters are inputted (*Kamvar*: Pgs. 3-4, ¶ 0002, ¶ 0020, ¶ 0031, ¶ 0041 - ¶ 0049; Fig. 1, Fig. 6; Fig. 7; portion or a few characters of query sent to search engine; also, as characters are included in search query, matching items are identified; e.g. those items identified by "Bri" and those items identified by "Britney) in order to speed up query search by continuously sending search terms (including prefixes of search terms) to search engine (*Kamvar*: Pgs. 3-4, ¶ 0002, ¶ 0020, ¶ 0028-¶ 0031, ¶ 0041 - ¶ 0049; Fig. 1, Fig. 6; Fig. 7).

Claim 63, a system claim, contains subject matter similar claim 47 and is rejected on the same ground.

19. As to **claim 48**, the combination of *Dutta* and *Kamvar* teaches the method of claim 34. *Dutta* further discloses wherein a portion of the set of items resides on a computer remote from the user (*Dutta*: Fig. 1, Fig. 2, Fig. 3a, Fig. 3b, Col. 3 Lines 47-65, Col. 4 Lines 20-42, Col. 5 Lines 7-20; Col. 6 Lines 33-36; network and client submits searches).

Claim 64, a system claim 48, contains subject matter similar to claim 48 and is rejected on the same ground.

20. As to **claim 49**, the combination of *Dutta* and *Kamvar* teaches the method of claim 34. *Dutta* further discloses wherein a computer remote from the user performs at least one of the steps of receiving text entered by the user, performing an incremental find, ordering and presenting one or more items to the user, and adjusting the relevance values of the terms associated with the items (*Dutta*: Fig. 1, Fig. 2, Fig. 3a, Fig. 3b, Col. 3 Lines 47-65, Col. 4 Lines 20-42, Col. 5 Lines 7-20; Col. 6 Lines 33-36; network and client submits searches to search engine).

21. As to **claim 65**, the combination of *Dutta* and *Kamvar* teaches the system of claim 50. *Dutta* further discloses wherein the processor is disposed in a computer remote from the user (*Dutta*: Fig. 1, Fig. 2, Fig. 3a, Fig. 3b, Col. 3 Lines 47-65, Col. 4 Lines 20-42, Col. 5 Lines 7-20; Col. 6 Lines 33-36; network and client submits searches to search engine).

22. **Claims 41-42, 44 and 57-58, and 60 are rejected under U.S.C 103(a) as being unpatentable over US Patent 6480837 by Dutta, in view of US PGPUB 2005/0283468 by Kamvar et al. (hereinafter “Kamvar”), and in further view of US PGPUB 2004/0021691 by Dostie et al. (hereinafter “Dostie”).**

23. As to **claim 41**, the combination of *Dutta* and *Kamvar* teaches the method of claim 34. *Dutta* and *Kamvar* do not explicitly disclose wherein the hand-held text input device includes a set of overloaded keys generating an ambiguous text input.

However, *Dostie* discloses QWERTY input with overloaded keys used for generating ambiguous character input system (*Dostie*: Pgs. 6-7, ¶ 0079 - ¶ 0082; Fig. 3; wherein *Dostie* discloses that "each key [] can contain one of more letters") for the purpose of rapidly entering data, such as text (*Dostie*: Pg. 1, ¶ 0007- ¶ 0008).

It would have been obvious to one of ordinary skill in the art at the time of the Applicant's invention that it is quite advantageous to incorporate the method taught by of *Dutta* and *Kamvar* with *Dostie*'s "data entry system". The motivation for doing so would have been to allow rapid text entry by user (*Dostie*: Pg. 1, ¶ 0007- ¶ 0008).

Claim 57, a system claim, contains subject matter similar claim 41 and is rejected on the same ground.

24. As to **claim 42**, the combination of *Dutta*, *Kamvar* and *Dostie* teaches the method of claim 41. *Dutta* and *Kamvar* do not explicitly disclose wherein the hand-held text_input device is a phone, a mobile computing device, or a remote control device for a

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television.

However, *Dostie* discloses “personal computing devices” and “hand-held devices” with overloaded keys (*Dostie*: Pg. 5, ¶ 0067- ¶ 0068; Fig. 1; wherein *Dostie* discloses “personal computing devices” and “hand-held devices”) for the purpose of rapidly entering data, such as text (*Dostie*: Pg. 1, ¶ 0007- ¶ 0008).

It would have been obvious to one of ordinary skill in the art at the time of the Applicant’s invention that it is quite advantageous to incorporate the method taught by *Dutta* and *Kamvar* with *Dostie*’s “data entry system”. The motivation for doing so would have been to allow rapid text entry by user (*Dostie*: Pg. 1, ¶ 0007- ¶ 0008).

Claim 58, a system claim, contains subject matter similar claim 42 and is rejected on the same ground.

25. As to **claim 44**, the combination of *Dutta* and *Kamvar* teaches the method of claim 43. *Dutta* and *Kamvar* do not explicitly disclose wherein the display device is a phone, a mobile computing device, or a non-intrusive interface display area of a television.

However, *Dostie* discloses “personal computing devices” and “hand-held devices” with overloaded keys (*Dostie*: Pg. 5, ¶ 0067- ¶ 0068, ¶ 0071- ¶ 0073, Fig. 1; wherein *Dostie* discloses “personal computing devices” and “hand-held devices”) for the purpose of rapidly entering data, such as text (*Dostie*: Pg. 1, ¶ 0007- ¶ 0008).

It would have been obvious to one of ordinary skill in the art at the time of the Applicant’s invention that it is quite advantageous to incorporate the method taught by *Dutta* and *Kamvar* with *Dostie*’s “data entry system”. The motivation for doing so would

have been to allow rapid text entry by user (*Dostie*: Pg. 1, ¶ 0007- ¶ 0008).

Claim 60, a system claim, contains subject matter similar claim 44 and is rejected on the same ground.

Conclusion

26. THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

27. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Huen Wong whose telephone number is (571) 270-3426. The examiner can normally be reached on Monday - Friday (8:30 EST - 5:00 EST).

If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Tony Mahmoudi can be reached on (571) 272-4078. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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/H. W./

/Vincent Boccio/

Examiner, Art Unit 2169

Primary Examiner, Art Unit 2158

26 March 2010

Notice of References Cited	Application/Control No. 11/246,432		Applicant(s)/Patent Under Reexamination ARAVAMUDAN ET AL.	
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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
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*	B	US-2005/0086234	04-2005	Tosey, Joseph Peter Robert	707/100
*	C	US-2002/0199194	12-2002	Ali, Kamal	725/46
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	E	US-			
	F	US-			
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	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

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	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	


*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.

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S19	3	(number near5 character\$1).clm. and (incremental near3 search\$3) and ((ARAVAMUDAN near5 MURALI) (BARVE near5 RAKESH) (VENKATARAMAN near5 SASHIKUMAR) (RAJASEKHARAN near5 AJIT)).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/25 20:42
S20	3	(number near5 character\$1).clm. and (incremental near3 search\$3) and ((ARAVAMUDAN near5 MURALI) (BARVE near5 RAKESH) (VENKATARAMAN near5 SASHIKUMAR) (RAJASEKHARAN near5 AJIT) (BARVE near5 RAKESH)).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/25 20:45
S21	16	(prefix\$2).clm. and (incremental near3 search\$3) and ((ARAVAMUDAN near5 MURALI) (BARVE near5 RAKESH) (VENKATARAMAN near5 SASHIKUMAR) (RAJASEKHARAN near5 AJIT) (BARVE near5 RAKESH)).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/25 20:46
S22	16	(prefix\$2).clm. and (incremental near3 search\$3) and ((ARAVAMUDAN near5 MURALI) (BARVE near5 RAKESH) (VENKATARAMAN near5 SASHIKUMAR) (RAJASEKHARAN near5 AJIT) (BARVE near5 RAKESH)).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2010/03/25 20:46
S23	15	S22 and (popularity likelihood probability).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2010/03/25 20:49
S24	119	"6438579"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2010/03/25 20:58
S25	1	"6438579".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2010/03/25 20:58


EAST Search History (Prior Art)

S26	1	"20040205065"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2010/03/25 21:08
S27	1	"20050086234"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2010/03/25 21:12
S28	1	"20050267994"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2010/03/25 21:24
S29	1	"20020199194"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2010/03/25 21:26

<i>Index of Claims</i> 	Application/Control No. 11246432	Applicant(s)/Patent Under Reexamination ARAVAMUDAN ET AL.
	Examiner Wong, Huen	Art Unit 2169


✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

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<i>Index of Claims</i> 	Application/Control No. 11246432	Applicant(s)/Patent Under Reexamination ARAVAMUDAN ET AL.
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✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant						<input type="checkbox"/> CPA		<input type="checkbox"/> T.D.		<input type="checkbox"/> R.1.47	
CLAIM		DATE									
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	64		✓	✓	✓						
	65		✓	✓	✓						

Search Notes 	Application/Control No. 11246432	Applicant(s)/Patent Under Reexamination ARAVAMUDAN ET AL.
	Examiner Wong, Huen	Art Unit 4171

SEARCHED			
Class	Subclass	Date	Examiner
707	1	1/10/2008	HW
707	3	1/10/2008	HW
707	5	1/10/2008	HW
707	6	1/10/2008	HW
707	7	1/10/2008	HW
709	230	1/10/2008	HW
709	231	1/10/2008	HW
EAST	update search with text	08/13/2009	HW
EAST	update search with text	03/25/2010	HW

SEARCH NOTES		
Search Notes	Date	Examiner
EAST Search (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	1/10/2008	HW
Inventor Search	1/10/2008	HW
Google Search	1/10/2008	HW
Google Web, Patent Search	01/21/2009	HW
EAST Search (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	08/13/2009	HW
Google Web, Patent Search	08/14/2009	HW
EAST Search (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	03/25/2010	HW

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

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