EXHIBIT 2

(12) **United States Patent**　　　　　(10) **Patent No.:**　　**US 7,681,124 B2**

Gunn et al.　　　　　　　　　　　　　　(45) **Date of Patent:**　　**Mar. 16, 2010**

(54) **DATA ENTRY FOR PERSONAL COMPUTING DEVICES**

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Related U.S. Application Data

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(51) **Int. Cl.**
G06F 17/00　　　　　(2006.01)

(52) **U.S. Cl.** **715/256**; 715/261; 715/268; 715/760; 345/179; 382/187

(58) **Field of Classification Search** 715/530, 715/531, 534, 541, 255, 256, 261, 268, 760; 365/189.01; 345/156, 173, 179; 382/187
See application file for complete search history.

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(57) **ABSTRACT**

In one aspect, the user can rapidly enter and search for text using a data entry system through a combination of entering one or more characters on a digitally displayed keyboard with a pointing device and using a search list to obtain a list of completion candidates. The user can activate the search list to obtain a list of completion candidates at any time while entering a partial text entry with the data entry system. When the search list is active, a list of completion candidates is displayed on a graphical user interface for the user to select from and the user can perform one of several actions. When the user deactivates the search list, the user can continue adding to or modifying the current partial text entry being entered, and may re-invoke the search list to further search for completion candidates based on the modified partial text entry.

41 Claims, 23 Drawing Sheets
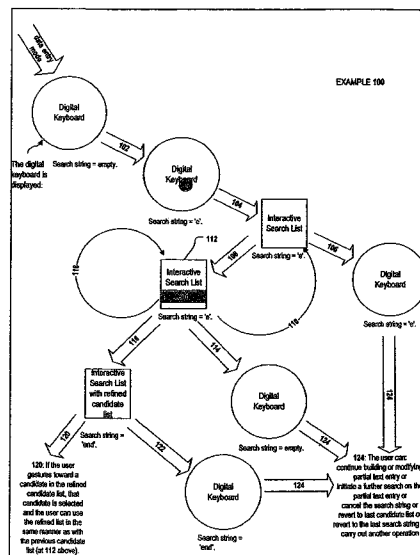
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