

EXHIBIT A



US007991784B2

(12) **United States Patent Parikh**

(10) **Patent No.:** US 7,991,784 B2
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(54) **AUTOMATIC DYNAMIC CONTEXTUAL DATA ENTRY COMPLETION SYSTEM**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(21) Appl. No.: **12/623,093**

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(22) Filed: **Nov. 20, 2009**

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(65) **Prior Publication Data**

US 2010/0070855 A1 Mar. 18, 2010

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Related U.S. Application Data

(63) Continuation of application No. 11/040,470, filed on Jan. 21, 2005, now Pat. No. 7,630,980.

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(51) **Int. Cl.**
G06F 17/30 (2006.01)

(57) **ABSTRACT**

(52) **U.S. Cl.** 707/759; 707/763; 707/771; 707/780
 (58) **Field of Classification Search** 707/1, 3, 707/6, 104.1, 759, 769, 771, 763, 780
 See application file for complete search history.

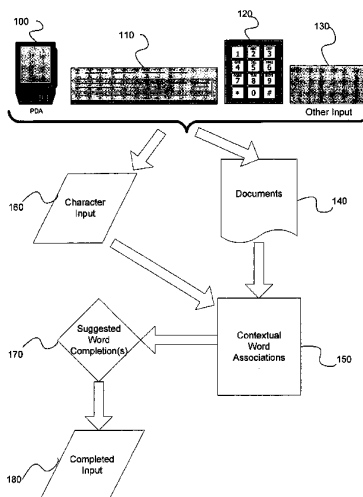
A method, performed in a character entry system involves computing contextual associations between multiple character strings based upon occurrence of character strings relative to each other in documents present in the system, wherein the computing contextual associations involves i) identifying pertinent documents present in the system, ii) creating a list of character strings contained within documents in the system; and iii) creating an interrelationship between the character strings to contents of the system; in response to the user inputting a specified threshold of individual characters, identifying at least one selectable character string from among the character strings used in creating the computed contextual associations that can complete the incomplete input character string in context; providing the identified at least one selectable character string to a user for selection; and receiving, in the system, the user's selection and completing the incomplete input character string based upon the selection.

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1 Claim, 6 Drawing Sheets



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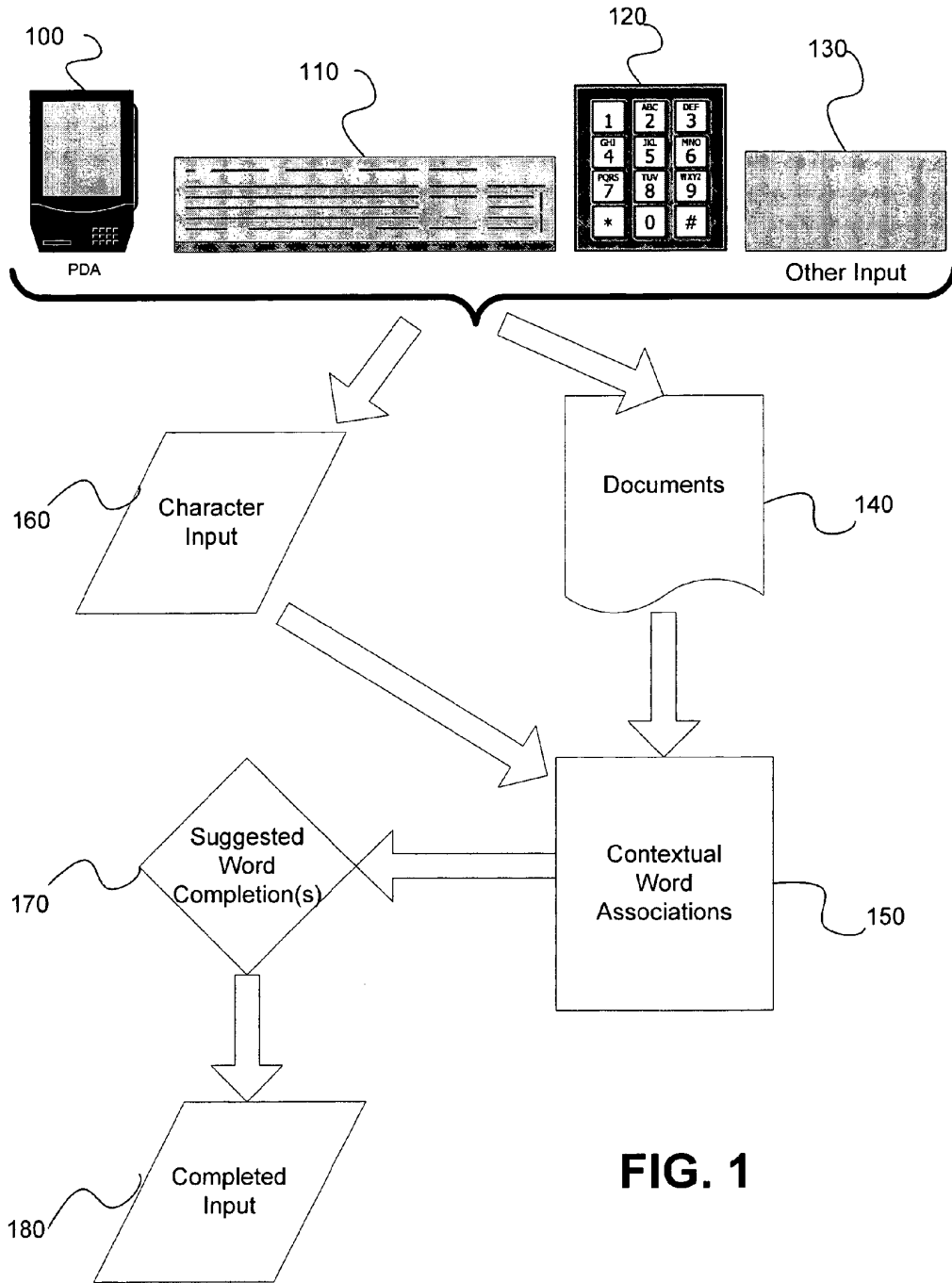
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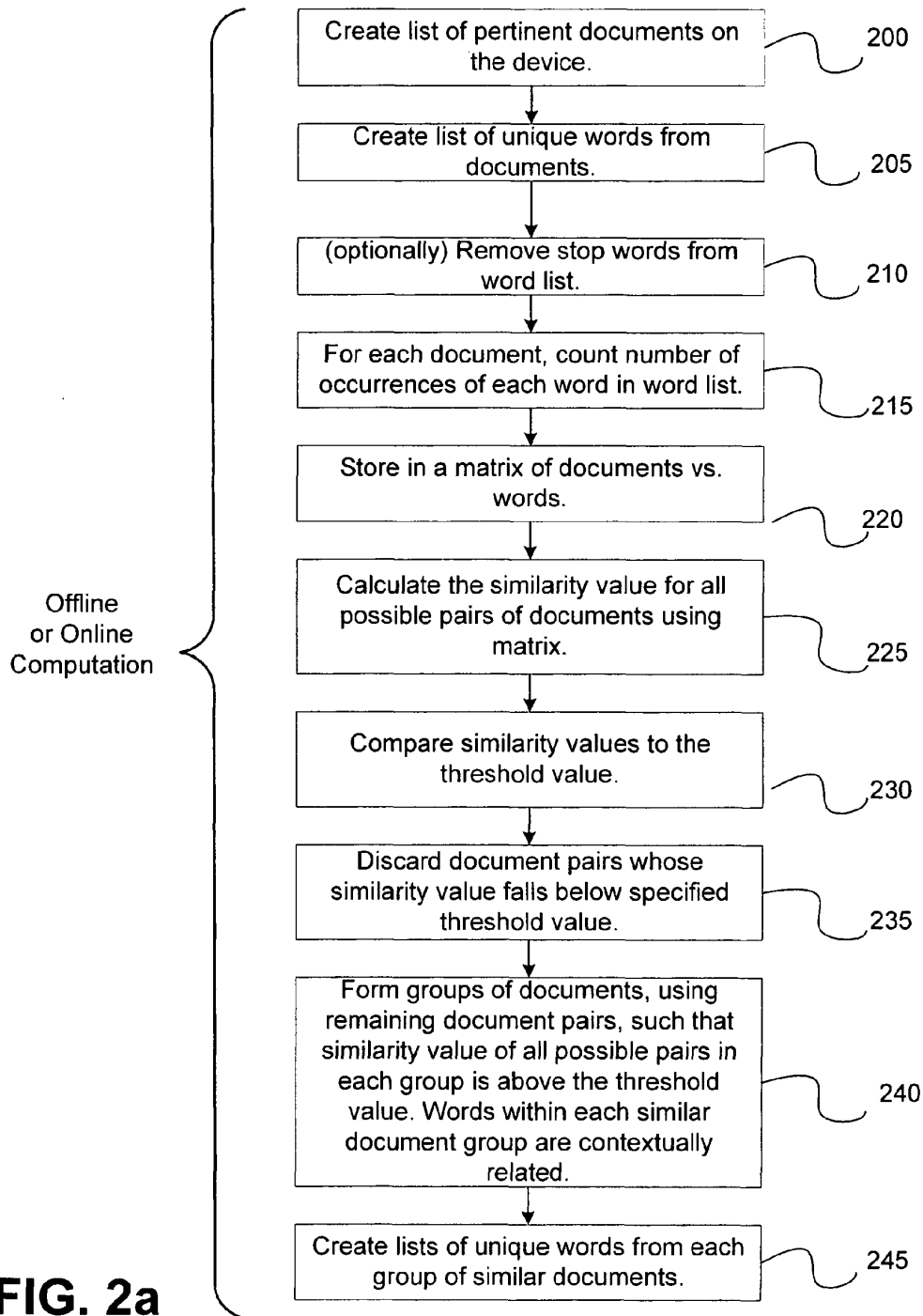
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