

Exhibit A



US007689617B2

(12) **United States Patent Parikh**

(10) **Patent No.:** US 7,689,617 B2
(45) **Date of Patent:** Mar. 30, 2010

(54) **DYNAMIC LEARNING FOR NAVIGATION SYSTEMS**

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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 305 days.

(21) Appl. No.: **11/361,726**

(22) Filed: **Feb. 24, 2006**

(65) **Prior Publication Data**

US 2006/0200442 A1 Sep. 7, 2006

Related U.S. Application Data

(60) Provisional application No. 60/656,631, filed on Feb. 25, 2005.

(51) **Int. Cl.**
G06F 7/00 (2006.01)
G06F 17/30 (2006.01)

(52) **U.S. Cl.** **707/737; 707/749; 707/756**

(58) **Field of Classification Search** None
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2005/0055344 A1* 3/2005 Liu et al. 707/3

OTHER PUBLICATIONS

Below, "Adaptive Information Retrieval: Using a connectionist representation to retrieve and learn about documents", Proceedings of the 12th annual international ACM SIGIR conference on Research and development in information retrieval, pp. 11-20, ACM, 1989.*

* cited by examiner

Primary Examiner—Neveen Abel Jalil

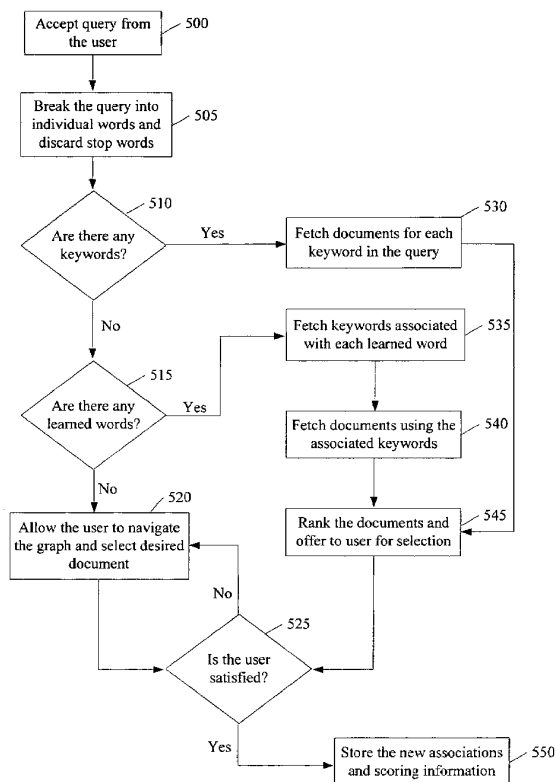
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(57) **ABSTRACT**

A method performed in a system involves, at a node within the system, receiving an input from a user, determining that the input contains an unknown word, presenting at least one response to the user, and based upon at least one additional input from the user, learning one or more associations for the unknown word.

20 Claims, 7 Drawing Sheets



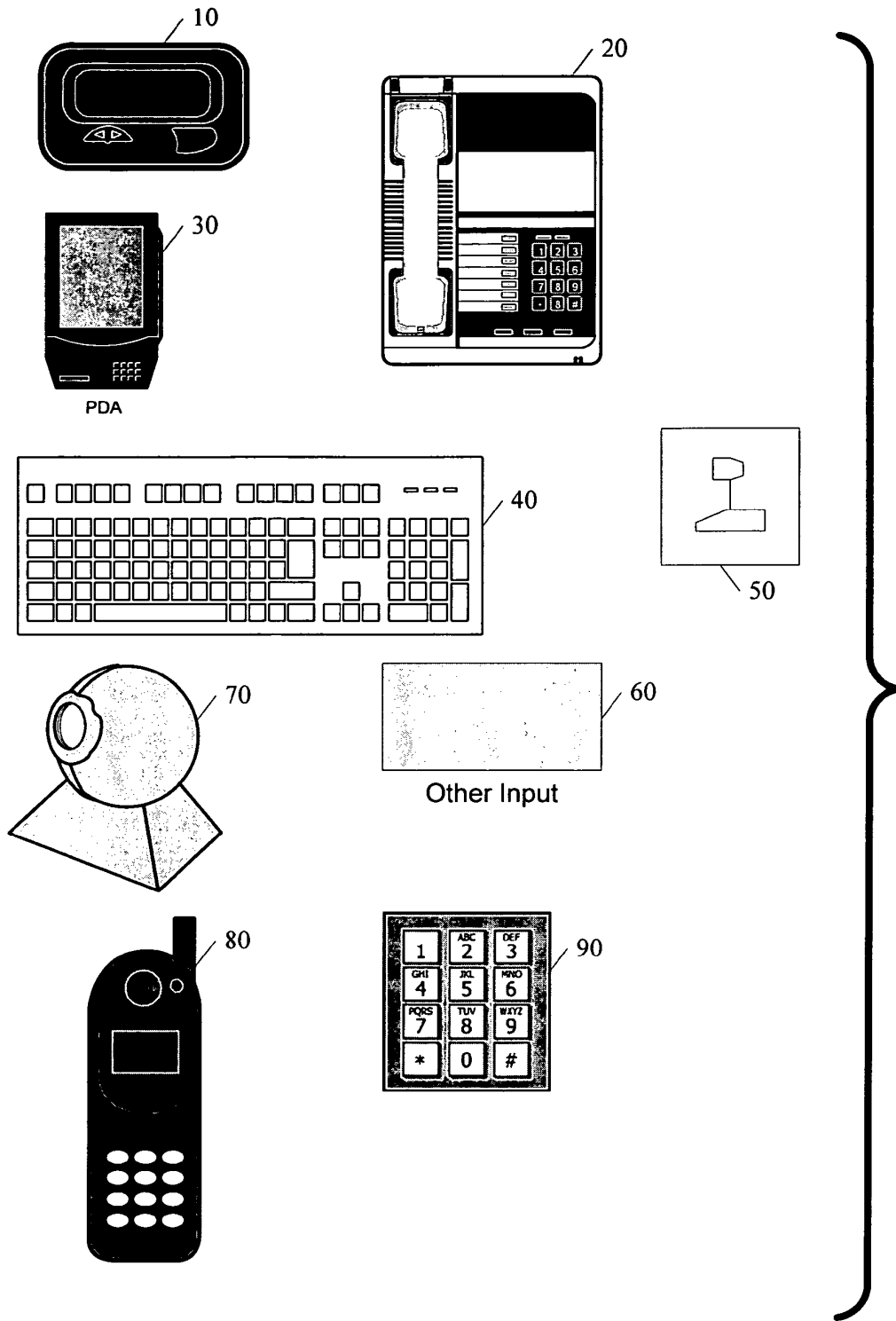


FIG. 1

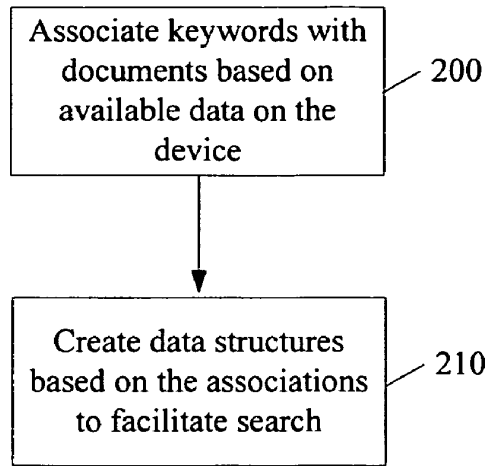


FIG. 2

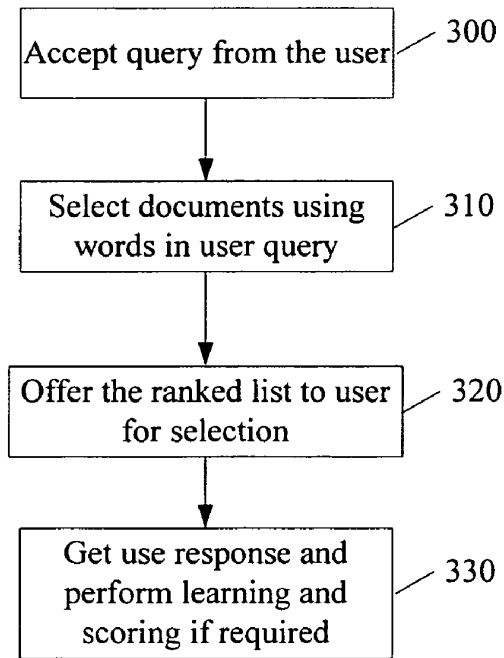


FIG. 3

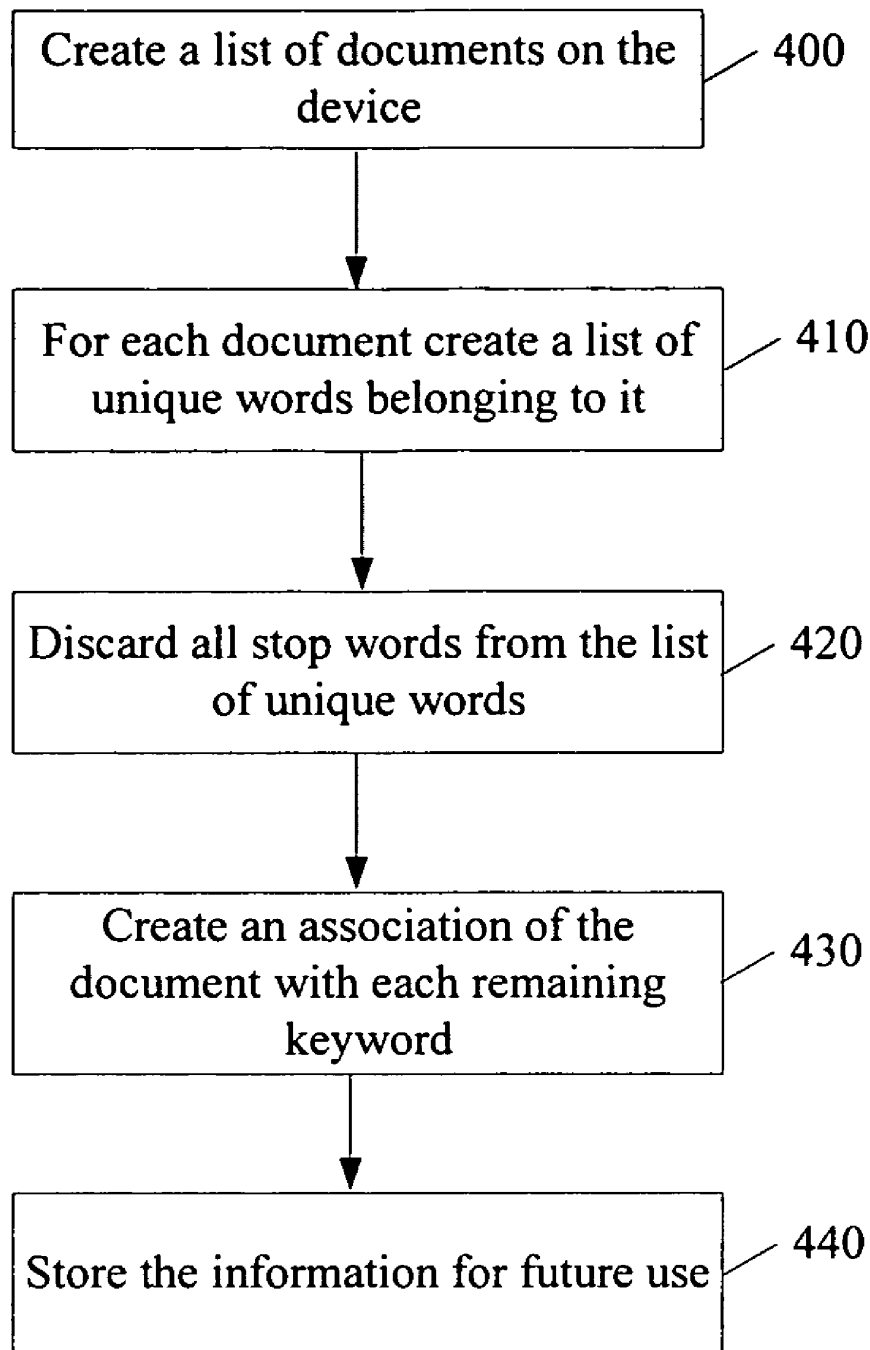


FIG. 4

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