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(54) Title: LOCALITY INDEXES AND METHOD FOR INDEXING LOCALITIES

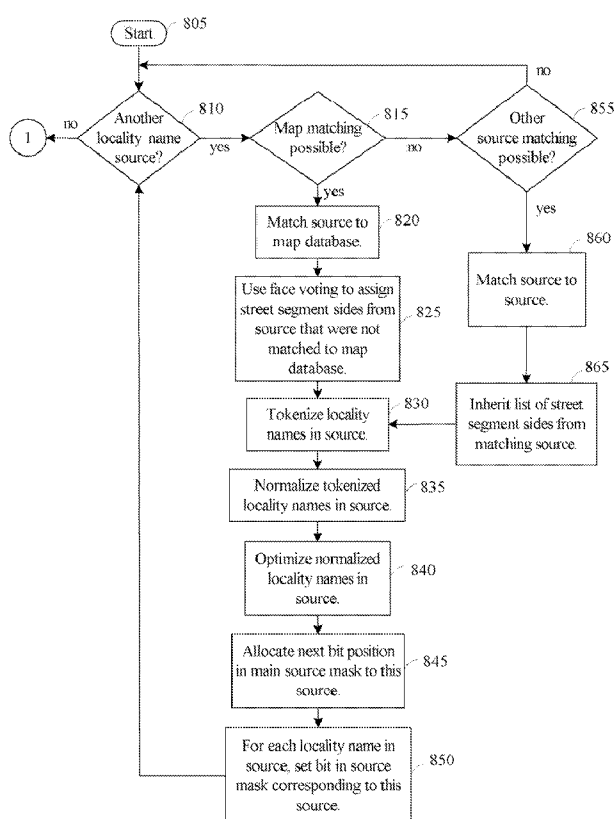


FIG. 8A

(57) Abstract: Locality indexes are presented for use with electronic maps and databases. Each geographic feature in a geographic database is associated with locality names from various locality name sources. Context-sensitive tokenizing, normalizing, optimizing and matching of locality names eliminate duplicate and variant locality names, while preserving meaningfully different names. A locality names table includes the parsed representation of each locality name and other associated information, and a primary token for indexing is identified. A main source mask is created by allocating a bit for each locality name source used in the method. A separate source mask is stored for each geographic feature associated with a locality, a bit set for each source in which the locality can be found. Locality names associated with each geographic feature are indexed in a table of geographic features in order of prevalence for use in a given application.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC: **G06F 7/00**(2006.01);**G06F 17/00**(2006.01)

USPC: 707/100,104.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 707/100, 104.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/0035432 A1 (Kubica et al.) 21 March 2002 (21.03.02), Abstract; Fig. 1-4; paragraphs 4-10; paragraphs 24-32	1-45
X	6,611,751B2 (Warren) 26 August 2003 (26.08.03) Abstract; Column 3, lines 6-67; column 4, lines 1-29	1-45

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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