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(54) METHODS FOR INTELLIGENT UNIVERSAL **DATABASE SEARCH ENGINES**

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(*) Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

> 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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Related U.S. Application Data

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` ′	29, 1997.	• •					

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(51)	Int. Cl. ⁷	G06F 9/00
(52)	U.S. Cl.	

(58)Field of Search 707/1–204

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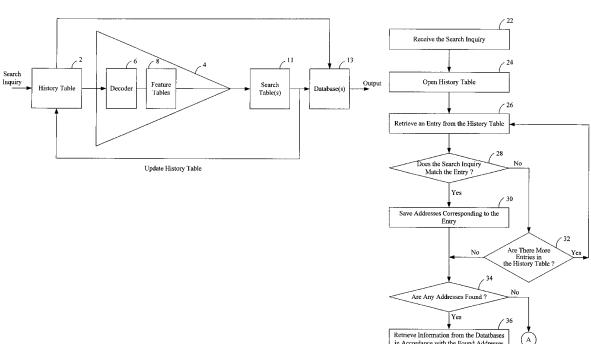
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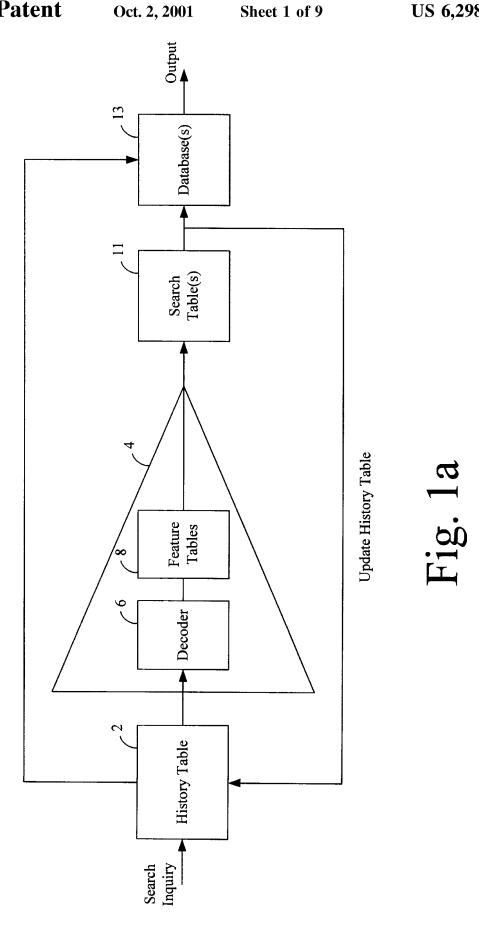
(57)**ABSTRACT**

A method and apparatus for processing user-submitted search information to permit a database to be searched regardless of the format and language of the user-submitted information. The user-submitted information is first categorized into one or more categories, where each category is a type of information such as a date, a proper name or a place. For each category pertaining to the user-submitted information, the search is refined by comparing the usersubmitted information to a feature table containing specific data types corresponding to each category. From the results of any affirmative comparison with the feature table, a starting location within a corresponding search table is retrieved. The search is further refined by comparing the user-submitted information to the entries of the search table beginning at the starting location. From the results of any affirmative comparison with the search table entries a database address is obtained which is used to obtain a database entry sought after by the user.

21 Claims, 9 Drawing Sheets







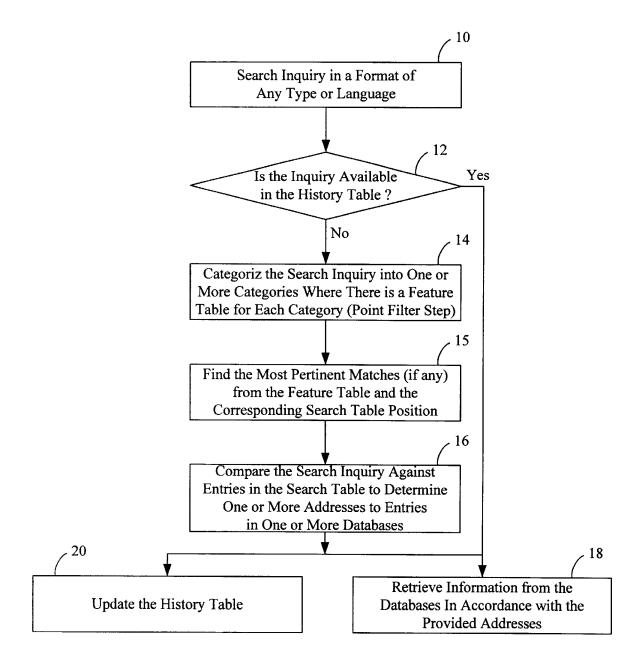


Fig. 1b



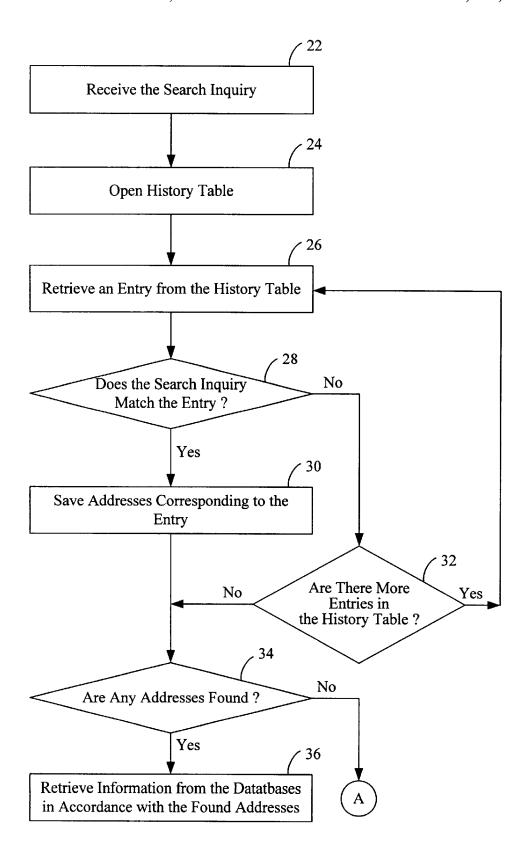
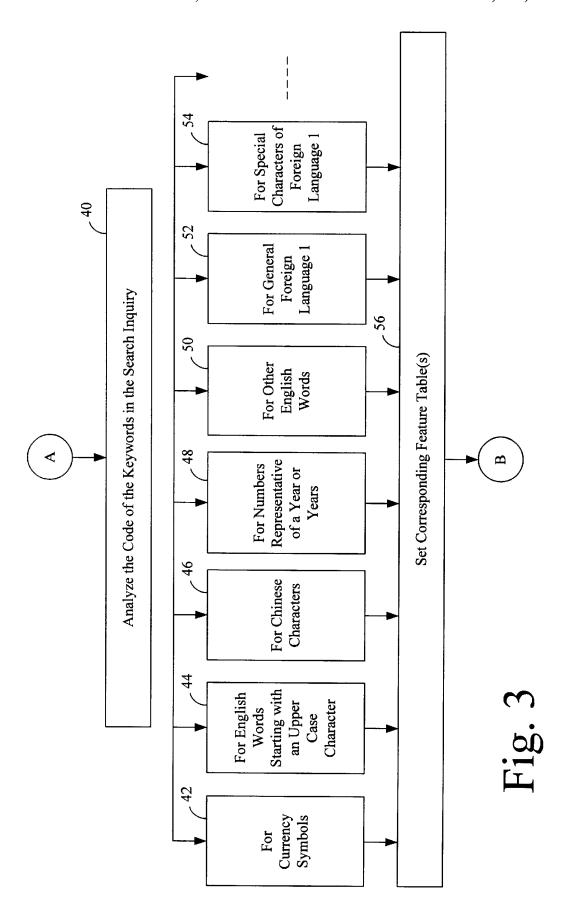


Fig. 2







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