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(54) **SYSTEM AND METHOD FOR ACCESSING LOCAL INFORMATION BY USING REFERENCING POSITION SYSTEM**

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(56) **References Cited**

U.S. PATENT DOCUMENTS

5,751,246 A * 5/1998 Hertel 342/357.07
5,802,492 A * 9/1998 DeLorme et al. 455/456
5,839,088 A * 11/1998 Hancock et al. 701/213
5,867,799 A 2/1999 Lang et al. 707/1
5,870,741 A * 2/1999 Kawabe et al. 707/5
5,948,040 A * 9/1999 DeLorme et al. 701/201
5,950,173 A * 9/1999 Perkowski 705/26
6,002,853 A * 12/1999 de Hond 395/200.49
6,055,516 A * 4/2000 Johnson et al. 705/27

* cited by examiner

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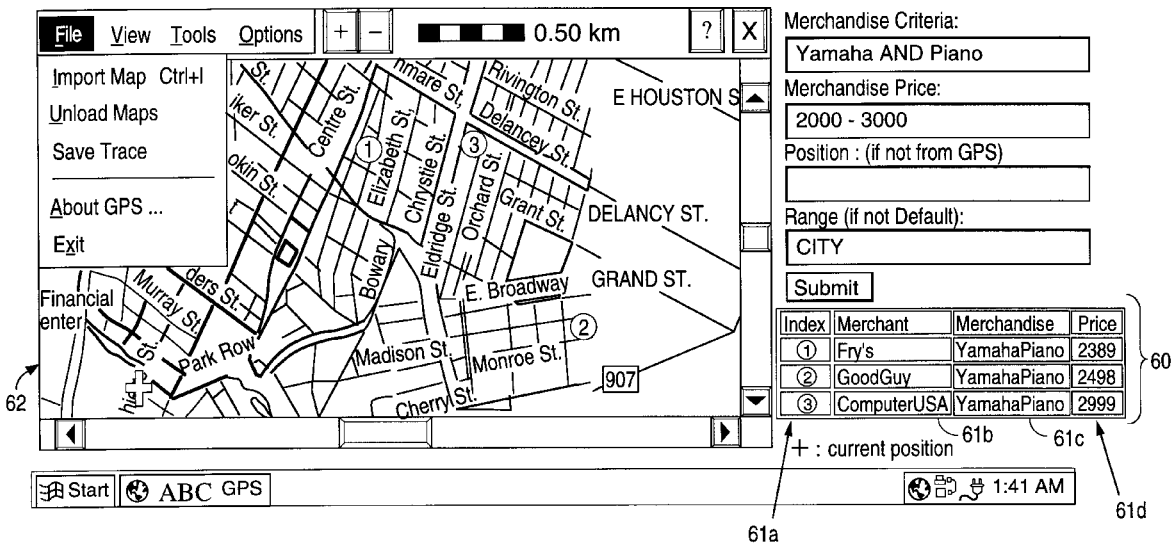
(57) **ABSTRACT**

A system and method for accessing local information in a database. The database is organized with merchandise information including identifier of information provider, identifier information, position information, and description information. The position information is position coordinates of a Global Position System that provides an accurate and fast location search capability of the database. The user of an end-user computer system is able to search the database by sending a query to a remote server computer system. The query includes searching geographic area and searching criteria. After receiving the query, the server computer system **10** then queries the database and receives information from the database query. The server computer **10** returns the search result to the user's computer system. The returned search result includes the identifier of the information provider, identifier of the information, description of information that matches the searching criteria, and position coordinates. The position coordinates may be further utilized by other Global Position System applications, for example route search and navigation.

102 Claims, 13 Drawing Sheets