

# EXHIBIT A

(12) **United States Patent**  
**Keerthi**

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(54) **COMPUTING PATHS BETWEEN GEOGRAPHICAL LOCALITIES**

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**Related U.S. Application Data**

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(51) **Int. Cl.**  
**G06F 19/00** (2011.01)

(52) **U.S. Cl.**  
USPC ..... 701/537; 701/533; 701/538; 379/88.01;  
379/88.03; 273/254; 273/256; 704/251; 370/251;  
370/328; 463/17

(58) **Field of Classification Search**  
USPC ..... 701/537, 538, 533; 455/433, 456.1,  
455/414.3; 463/17; 379/88.01, 88.03;  
273/254, 256; 704/251; 370/251, 328

See application file for complete search history.

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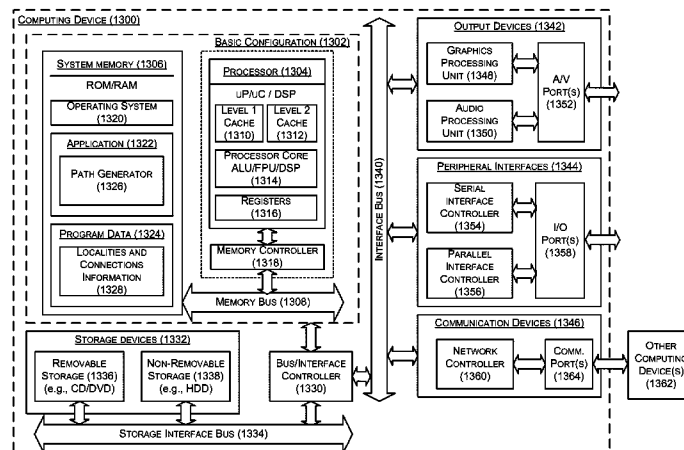
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(57) **ABSTRACT**

Technology is generally described for computing paths between geographical localities. The technology can receive a request for a path between two or more geographical localities, and compute a path based at least on a popularity rating of intermediate geographical localities.

**20 Claims, 17 Drawing Sheets**



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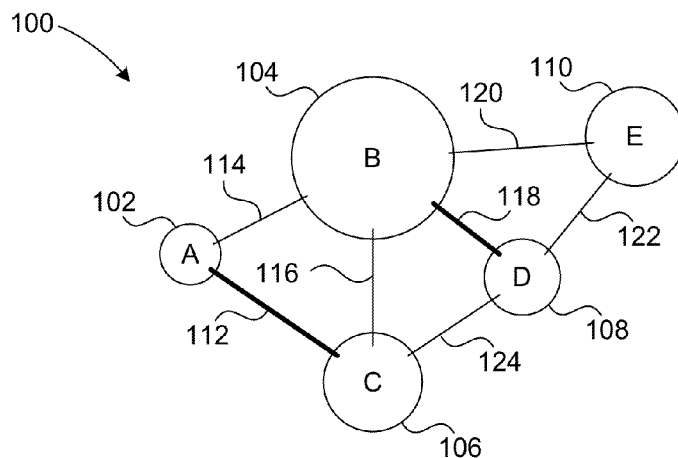
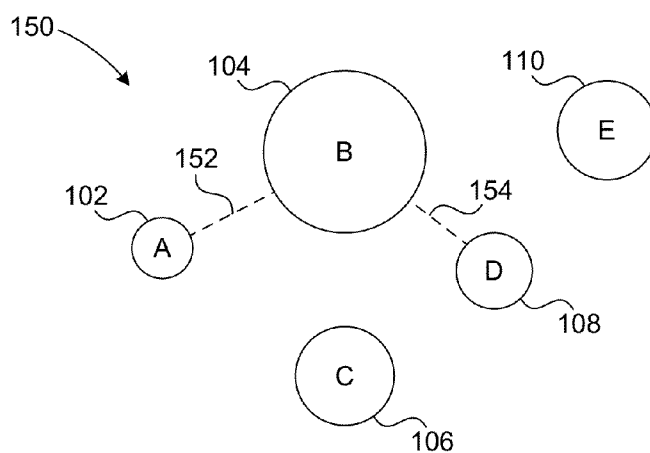
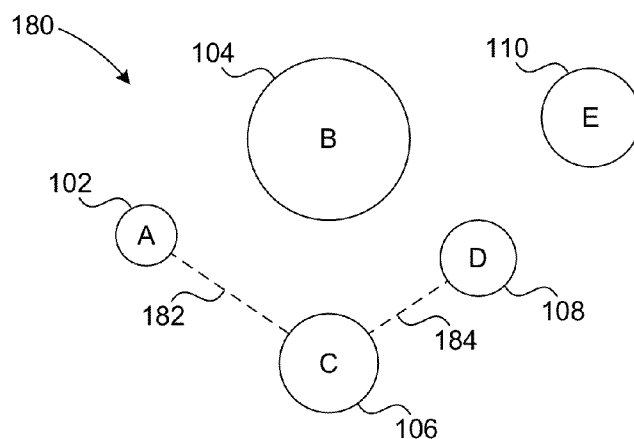
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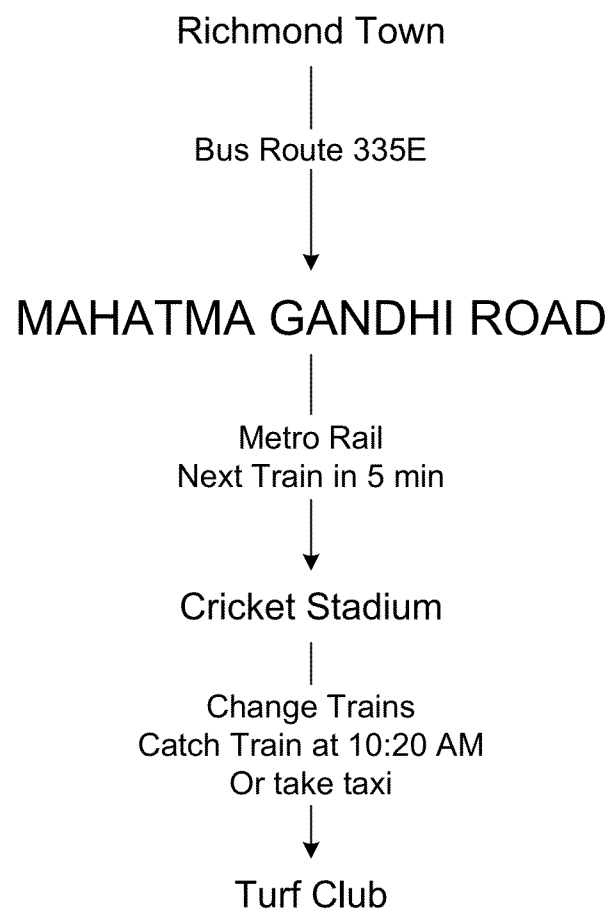
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**FIG. 1A****FIG. 1B****FIG. 1C**

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**FIG. 2**

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