Case: 1:20-cv-00578-MWM Doc #: 1-1 Filed: 07/24/20 Page: 1 of 28 PAGEID #: 19

EXHIBIT A

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US008560238B2

(12) United States Patent

Keerthi

(54) COMPUTING PATHS BETWEEN GEOGRAPHICAL LOCALITIES

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- (72) Inventor: Arvind Vijay Keerthi, Bangalore (IN)
- (73) Assignee: Empire Technology Development LLC, Wilmington, DE (US)
- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
- (21) Appl. No.: 13/859,665
- (22) Filed: Apr. 9, 2013

(65) **Prior Publication Data**

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Related U.S. Application Data

- (63) Continuation of application No. 13/498,556, filed as application No. PCT/IB2011/052612 on Jun. 16, 2011, now Pat. No. 8,457,885.
- (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

(10) Patent No.: US 8,560,238 B2

(45) **Date of Patent:** Oct. 15, 2013

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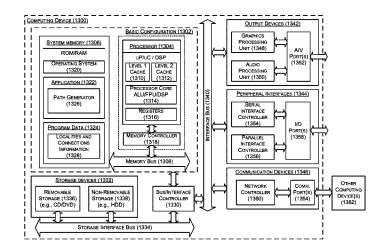
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Primary Examiner — McDieunel Marc (74) Attorney, Agent, or Firm — Perkins Coie LLP

(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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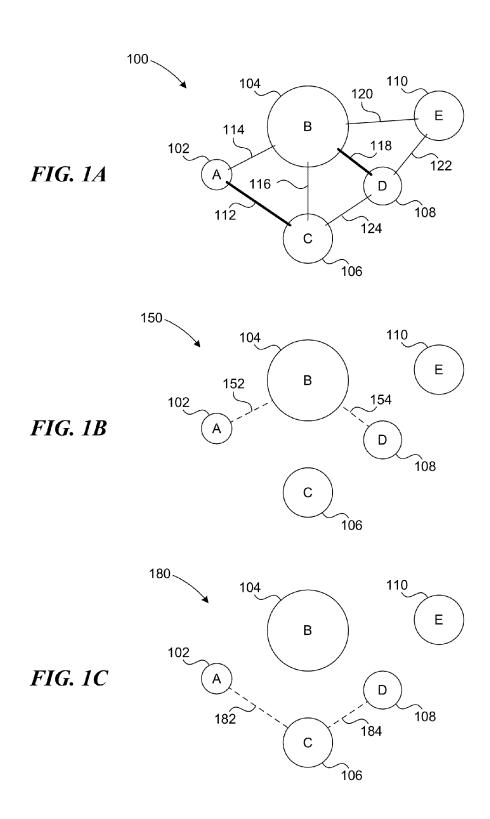
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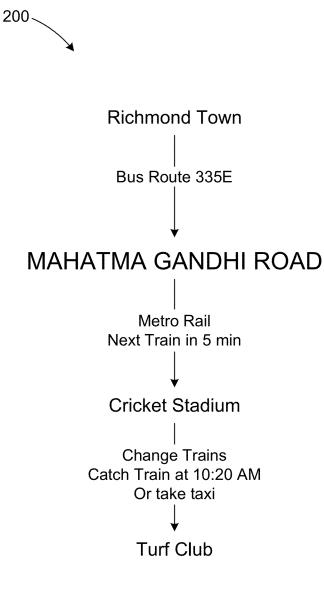


FIG. 2

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