

EXHIBIT A

(12) **United States Patent**
Wolfe

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(45) **Date of Patent:** **Mar. 18, 2014**

- (54) **METHOD FOR THE DETERMINATION OF A TIME, LOCATION, AND QUANTITY OF GOODS TO BE MADE AVAILABLE BASED ON MAPPED POPULATION ACTIVITY**
- (75) Inventor: **Andrew Wolfe**, Los Gatos, CA (US)
- (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 672 days.

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Primary Examiner — William Allen

(74) *Attorney, Agent, or Firm* — Moritt Hock & Hamroff LLP; Steven S. Rubin, Esq.

(57) **ABSTRACT**

A population activity mapping method may include detecting a plurality of wireless mobile devices within a geographic region. Individual wireless mobile devices may include a processor, a user interface, a transmitter and a receiver. The detecting operation may be performed by use of a wireless access point, a GPS satellite, and/or a base station, and may be performed at at least two different points in time. Input data may be provided based upon the detecting operation. A distance and speed at which the mobile devices travel within the geographic region may be discerned dependent upon the input data. The discerning operation is performed by at least one processor of a computer network. A time and/or location at which salable output is to be made available and/or an amount of salable output to be made available may be determined dependent upon the discerning operation.

7 Claims, 5 Drawing Sheets

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(65) **Prior Publication Data**

US 2011/0040603 A1 Feb. 17, 2011

(51) **Int. Cl.**
G06Q 30/00 (2012.01)

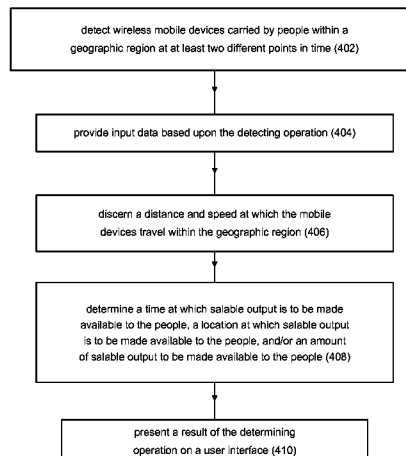
(52) **U.S. Cl.**
USPC **705/26.7**; 705/14.49; 705/14.58;
705/7.31; 701/408; 701/487; 701/491; 701/516;
701/526

(58) **Field of Classification Search**
USPC 705/7.29, 7.31, 14.4, 14.49,
705/14.57–14.58, 26.1–27.2; 701/400, 408,
701/426, 465, 487, 491, 500, 516, 517, 526
See application file for complete search history.

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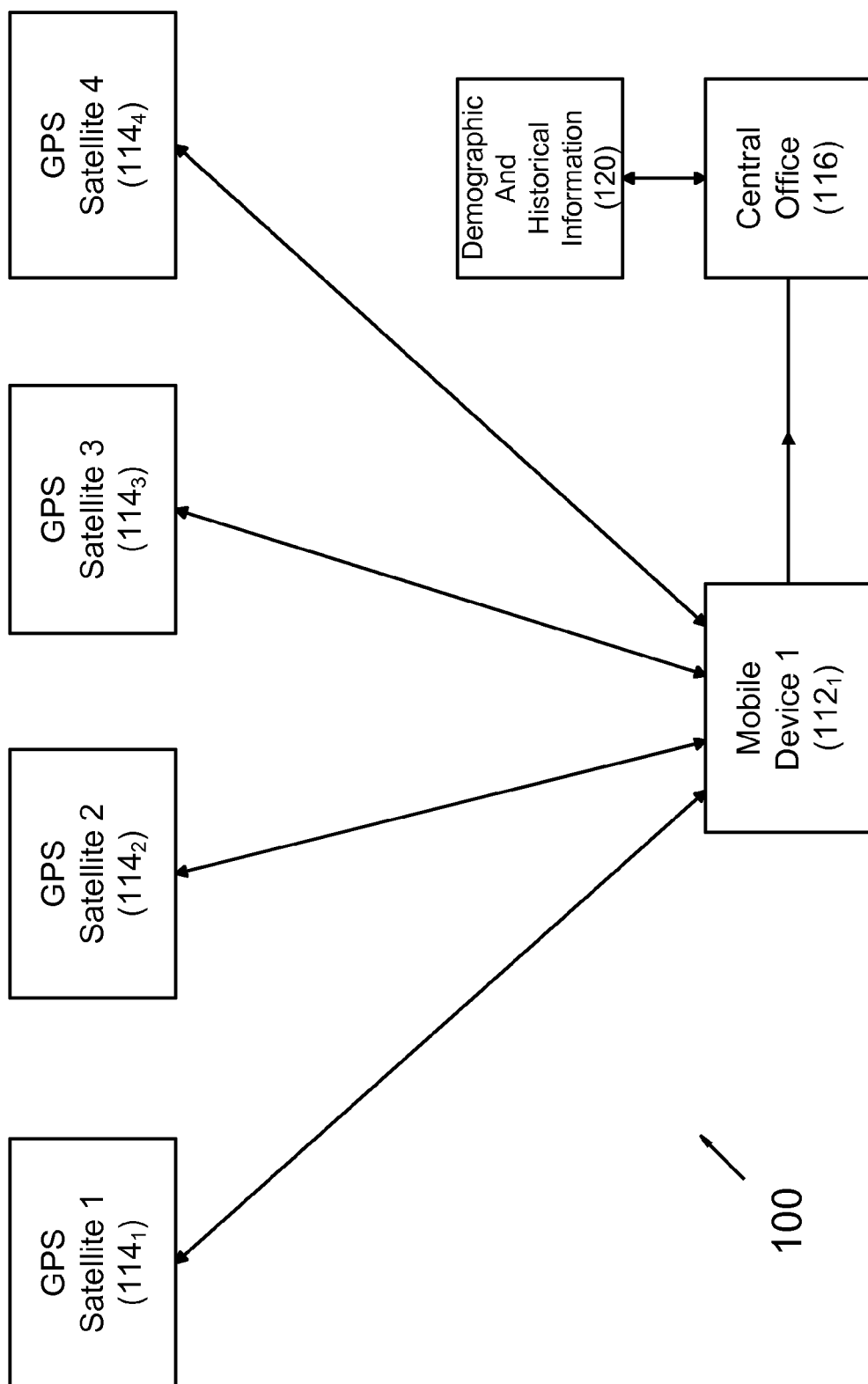
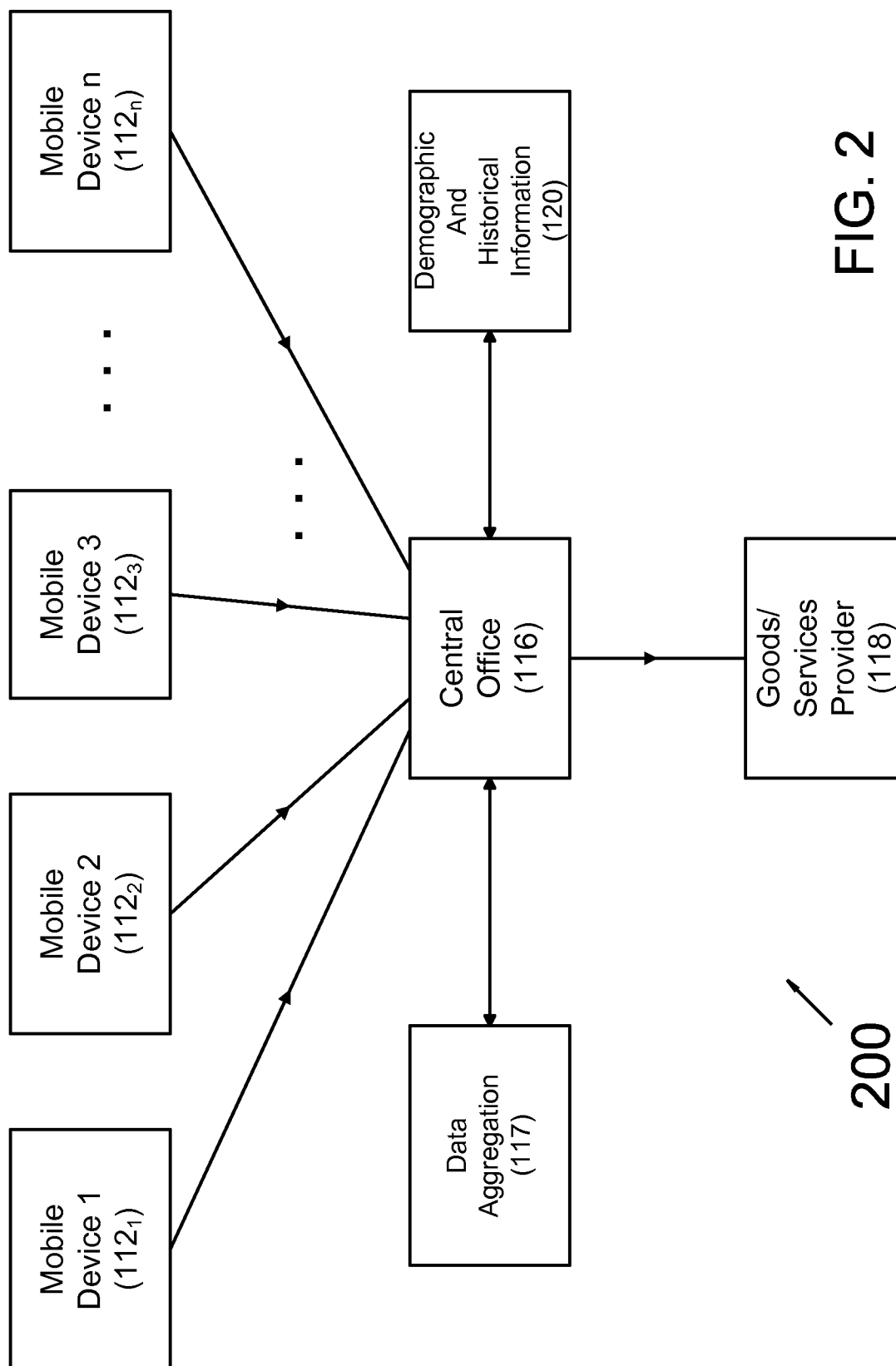


FIG. 1



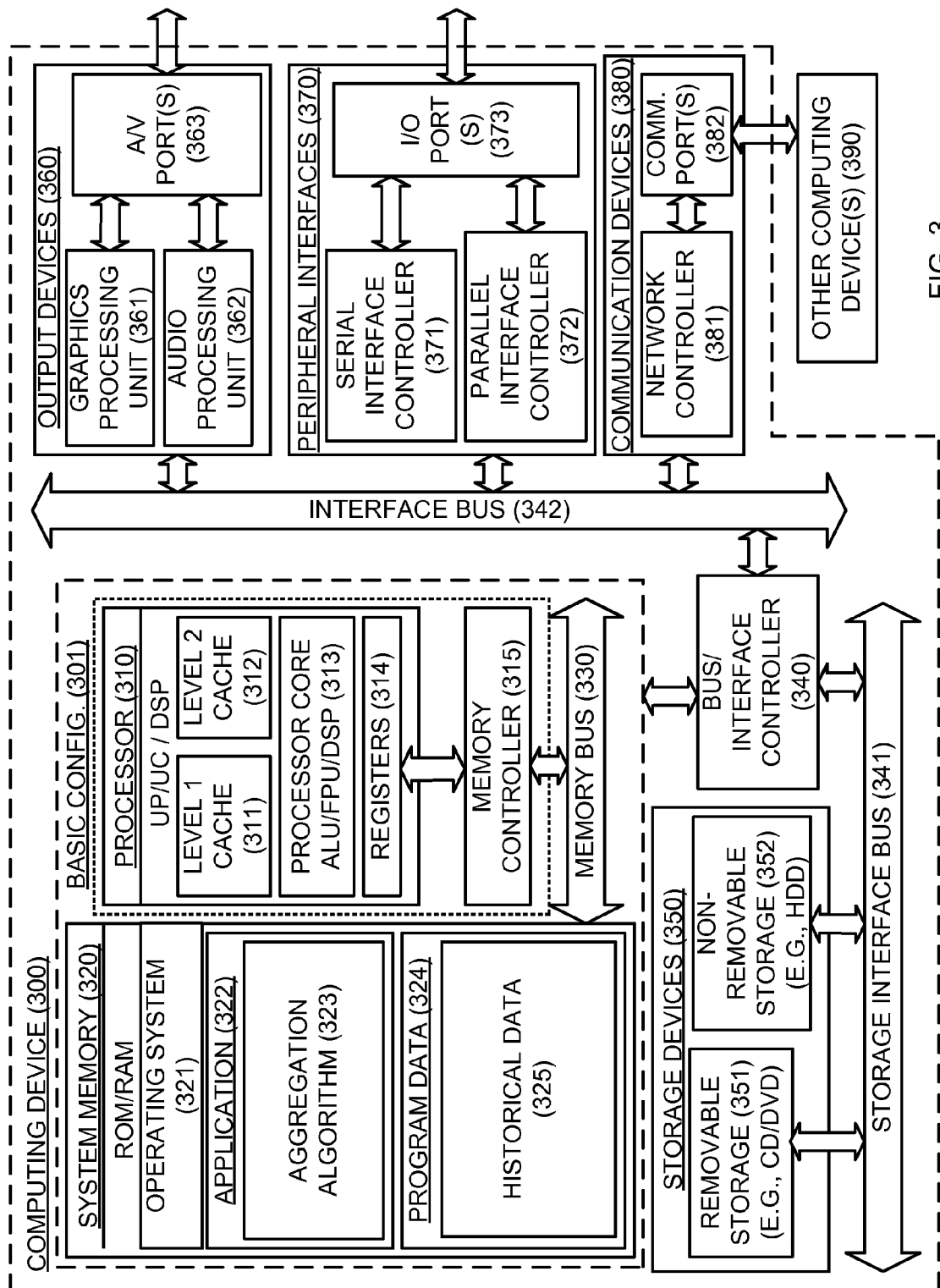


FIG. 3

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