



US 20120008526A1

(19) **United States**

(12) **Patent Application Publication**
Borghei

(10) **Pub. No.: US 2012/0008526 A1**

(43) **Pub. Date: Jan. 12, 2012**

(54) **AD HOC FORMATION AND TRACKING OF LOCATION-SHARING GROUPS**

(52) **U.S. Cl. 370/254**

(57) **ABSTRACT**

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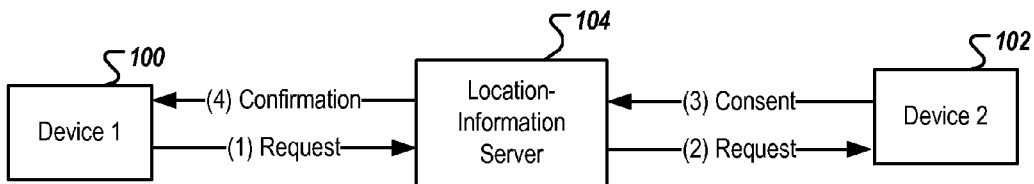
(21) **Appl. No.: 12/831,956**

(22) **Filed: Jul. 7, 2010**

Methods, systems, and computer-readable media for forming and tracking a location-sharing group are disclosed. The location-sharing group can be performed ad hoc without the assistance of a central server. A geofence can be defined that encloses the current locations of the participating devices in the location-sharing group. The geographic location of the location-sharing group as a whole can be tracked and provided to the participating devices in the location-sharing group. Group-level location-sharing can be enabled. Departure of a participating device from the location-sharing group can be detected based on the current location and the coverage radius of each device in the location-sharing group. Entry of points of interest into the geofence of the location-sharing group can be detected and notified to the participating devices in the location-sharing group.

Publication Classification

(51) **Int. Cl. H04L 12/28 (2006.01)**



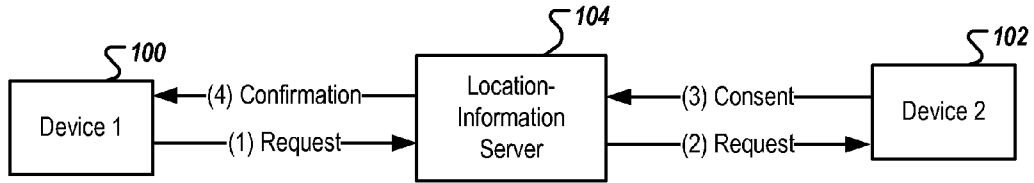


FIG. 1A

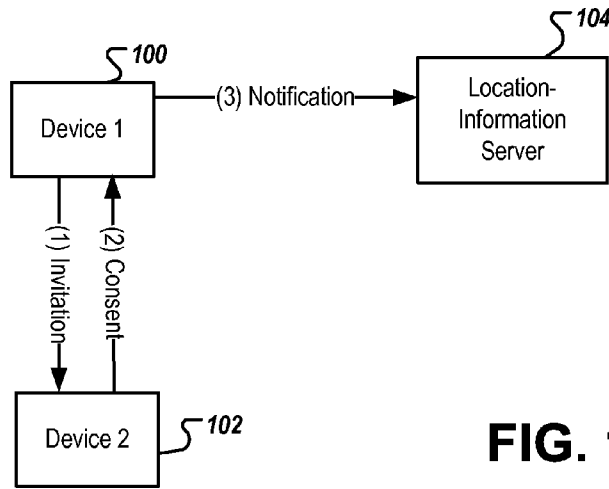


FIG. 1B

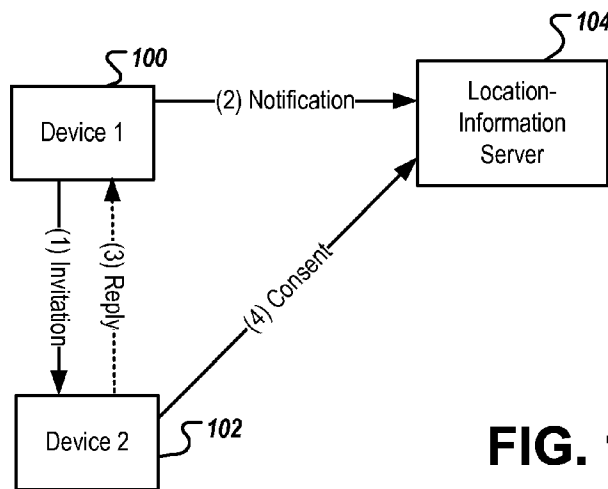


FIG. 1C

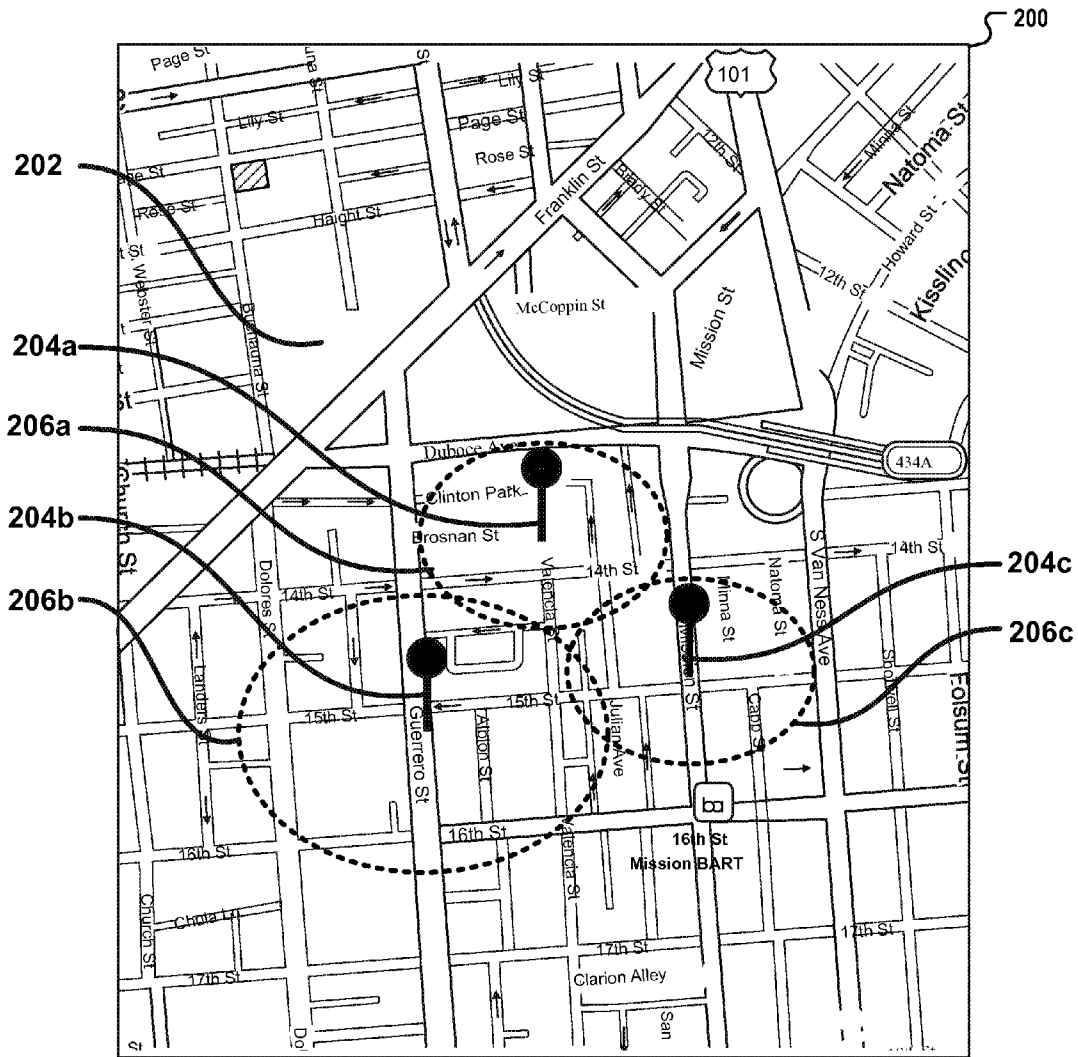


FIG. 2A

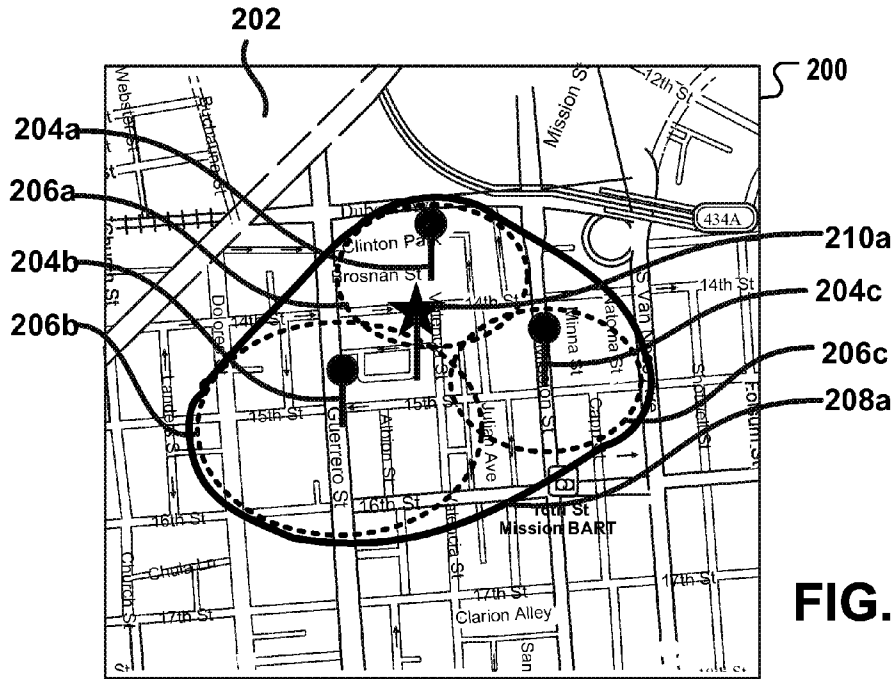


FIG. 2B

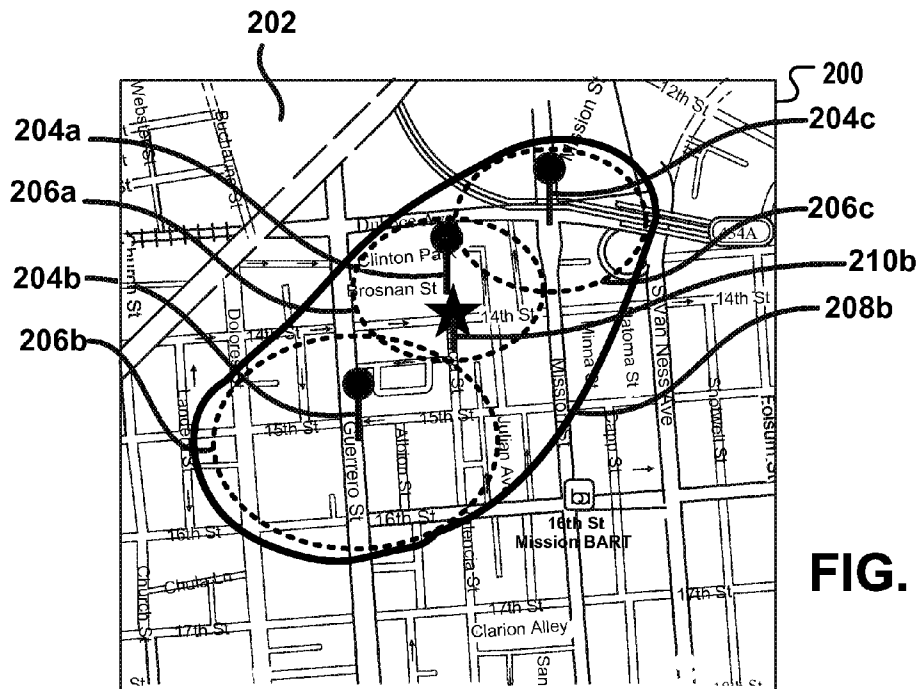


FIG. 2C

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