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(19) **United States**(12) **Patent Application Publication****Masuoka et al.**(10) **Pub. No.: US 2005/0136845 A1**(43) **Pub. Date: Jun. 23, 2005**(54) **METHOD AND APPARATUS FOR LOCATION DETERMINATION USING MINI-BEACONS****Related U.S. Application Data**

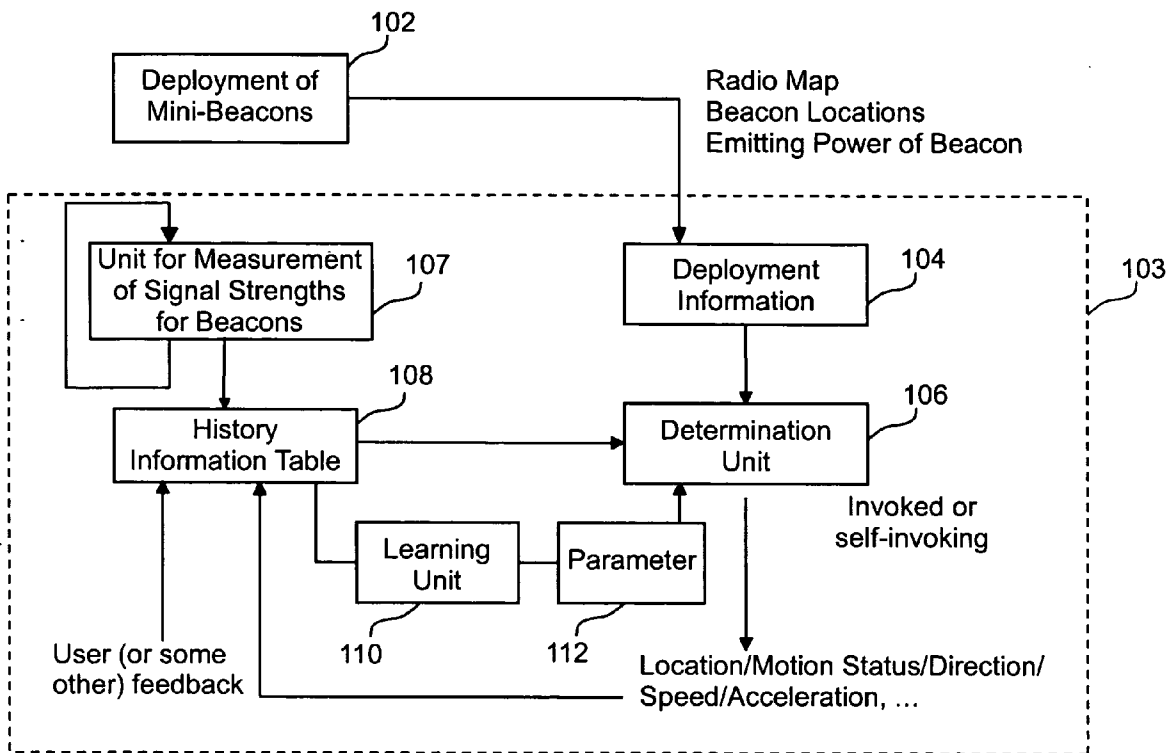
(60) Provisional application No. 60/503,878, filed on Sep. 22, 2003.

(75) Inventors: **Ryusuke Masuoka**, Potomac, MD (US); **Sasikanth Avancha**, Baltimore, MD (US); **Sohil Thakkar**, Greenbelt, MD (US); **Jonathan Agre**, Brinklow, MD (US)**Publication Classification**(51) **Int. Cl.<sup>7</sup> ..... H04B 17/00**(52) **U.S. Cl. .... 455/67.14; 455/456.6**

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**STAAS & HALSEY LLP****SUITE 700****1201 NEW YORK AVENUE, N.W.****WASHINGTON, DC 20005 (US)****ABSTRACT**

A system and method uses wireless communication devices as beacons to determine the relative location of another target wireless communication device. The beacons transmit identifying information that the target device can use to determine the identity of the beacon. The target device can measure the received intensity of the beacon transmissions and determine an associated beacon that best satisfies a specified criteria (e.g., largest signal strength) using a procedure of the present invention that discriminates between multiple beacons.

(73) Assignee: **FUJITSU LIMITED**, Kawasaki (JP)(21) Appl. No.: **10/929,763**(22) Filed: **Aug. 31, 2004**

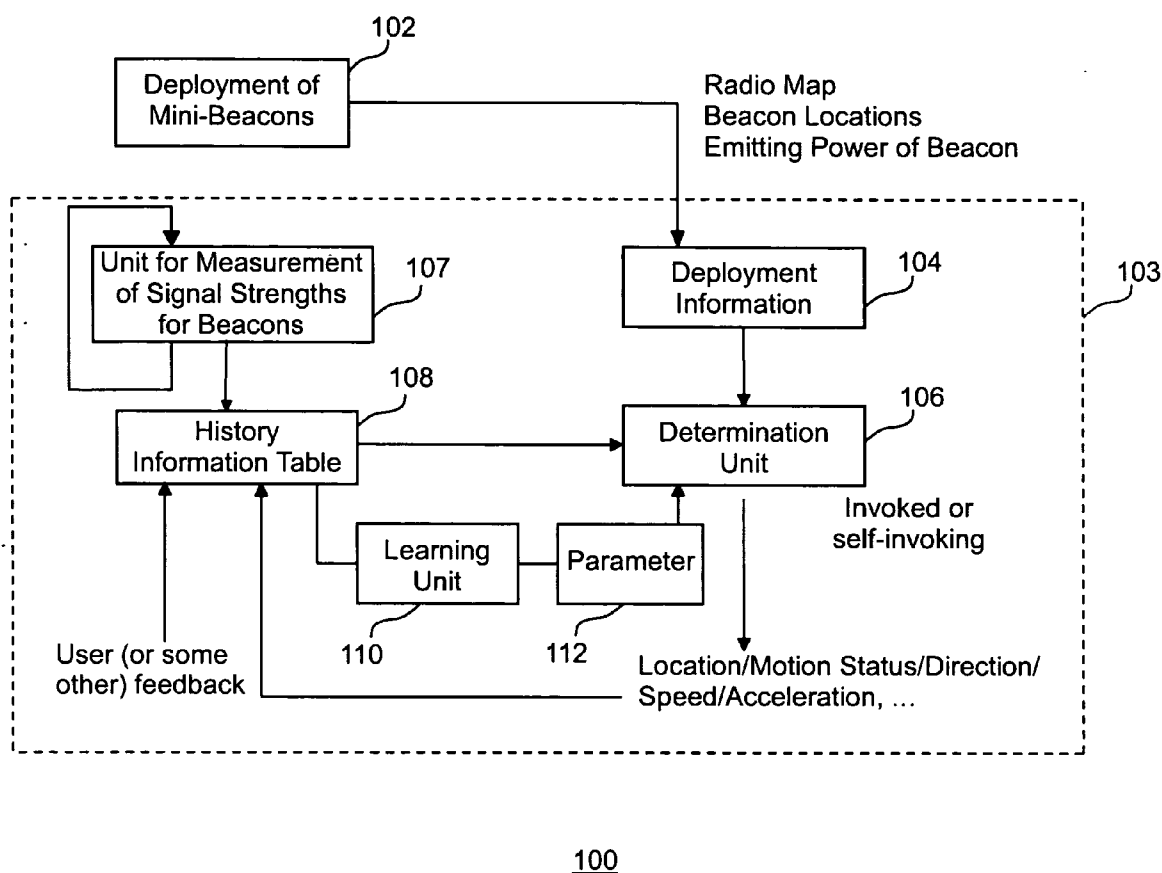
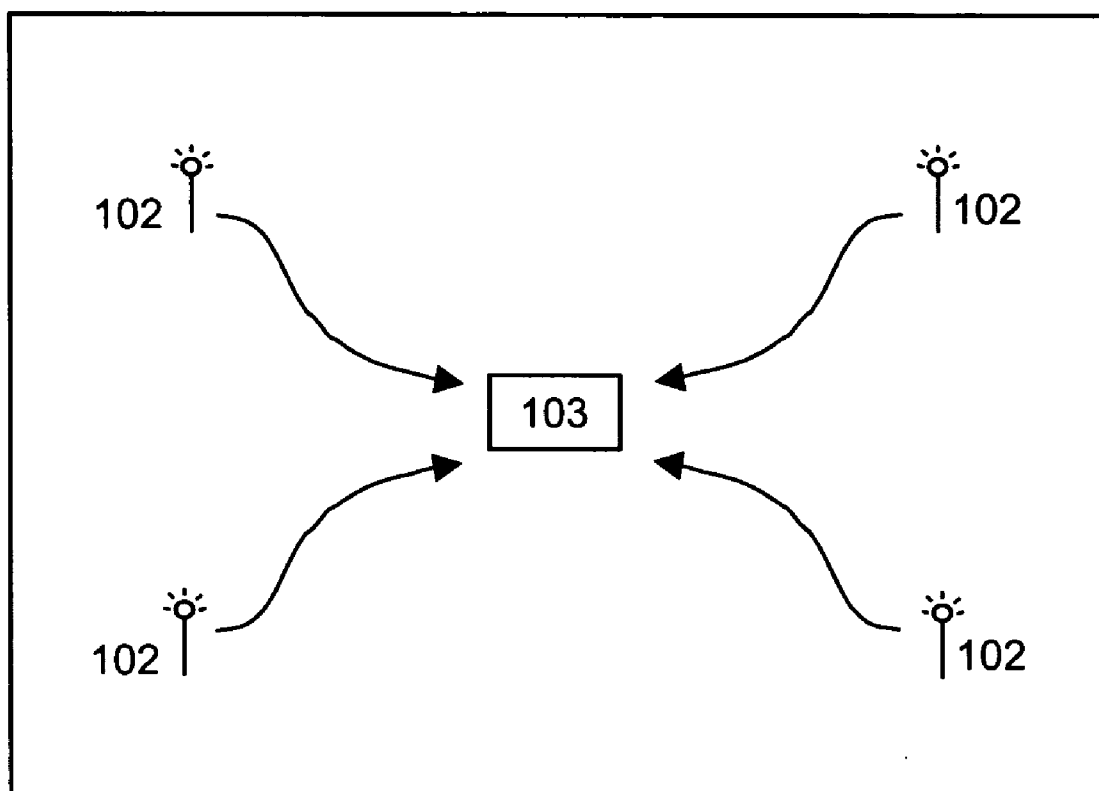
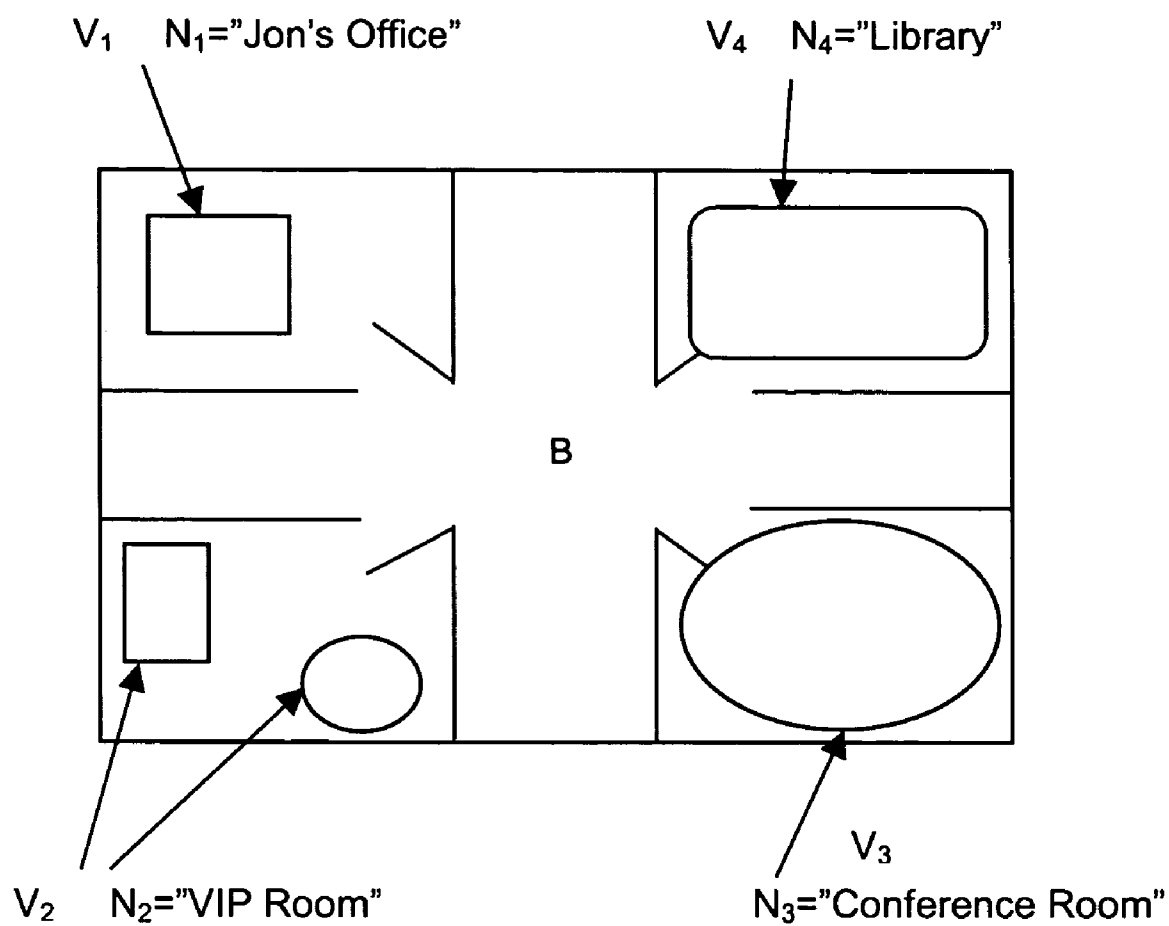


FIGURE 1A



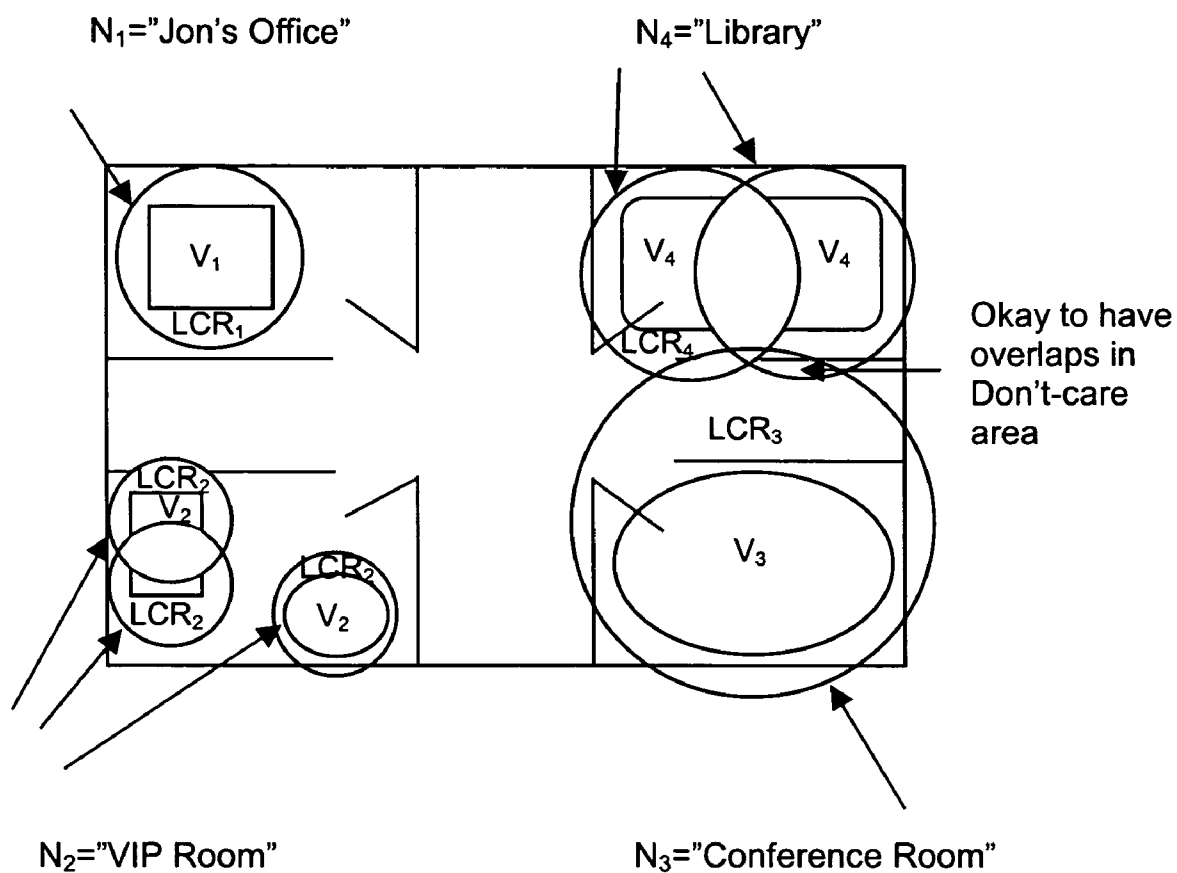
100

**FIGURE 1B**



200

**FIGURE 2**



300

**FIGURE 3**

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