

US007327258B2

## (12) United States Patent

Fast et al.

(10) Patent No.: US 7,327,258 B2 (45) Date of Patent: Feb. 5, 2008

(54)	SYSTEM FOR, AND METHOD OF,
	MONITORING THE MOVEMENTS OF
	MOBILE ITEMS

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(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35

U.S.C. 154(b) by 384 days.

(21) Appl. No.: 11/048,555

(22) Filed: Jan. 31, 2005

(65) Prior Publication Data

US 2006/0181411 A1 Aug. 17, 2006

### Related U.S. Application Data

(60) Provisional application No. 60/542,208, filed on Feb. 4, 2004.

(51) Int. Cl.

**G08B 13/14** (2006.01)

(52) **U.S. Cl.** ...... 340/572.1; 701/213

(56) References Cited

U.S. PATENT DOCUMENTS

5,317,309 A \* 5/1994 Vercellotti et al. ....... 340/10.5

5,519,403 A * 6,661,372 B1		Bickley et al 342/352 Girerd et al.
6,720,888 B2*	4/2004	Eagleson et al 340/572.1
7,139,820 B1*	11/2006	Carter
7,152,020 B2 * 7,176,797 B2 *		Michiwaki et al 340/539.11 Zai et al 340/572.1

#### FOREIGN PATENT DOCUMENTS

WO WO 02/23922 A2 3/2002

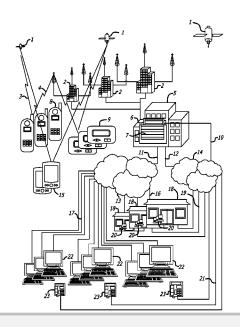
\* cited by examiner

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(57) ABSTRACT

A system monitors parameters (e.g., speed, position, threshold boundaries) of mobile items attached to beacons and produces signals indicating these parameters. The system also monitors non-mobile parameters (e.g., battery life, door locks, windows) in the items. Different technologies (e.g., wireless) are provided for communicating between the beacons and a beacon controller interface. Different technologies are provided for locating and indicating item positions. The beacons and the interface provide for new beacons to be added to the system with different characteristics than the existing beacons for monitoring the operation of new beacons without affecting the operation of existing beacons. The system includes resellers, retailers, users and subscribers in a flexible relationship to enhance the ease in the system operation. Beacons can perform more than one function (e.g. tracking, threshold monitoring) simultaneously. Scenarios for the beacons can be created and monitored. Recovery personnel can intervene to resolve crises.

### 122 Claims, 30 Drawing Sheets





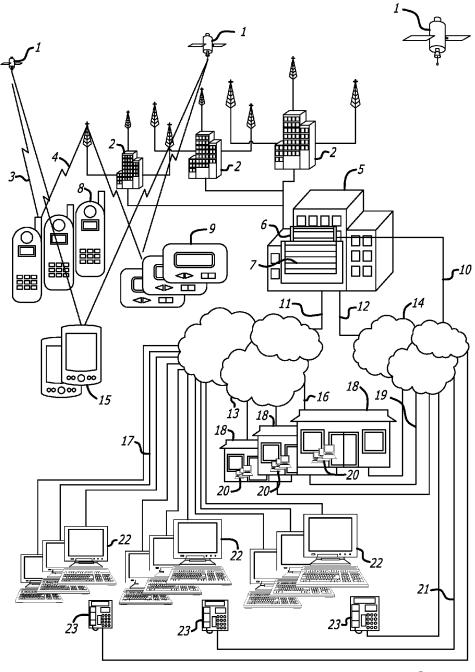
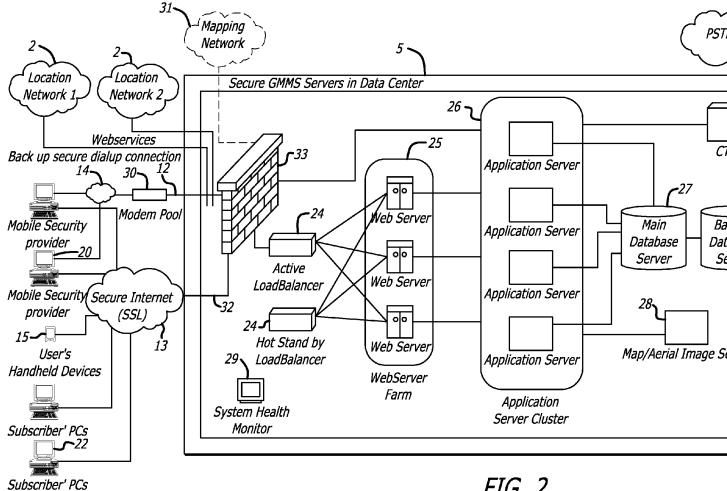
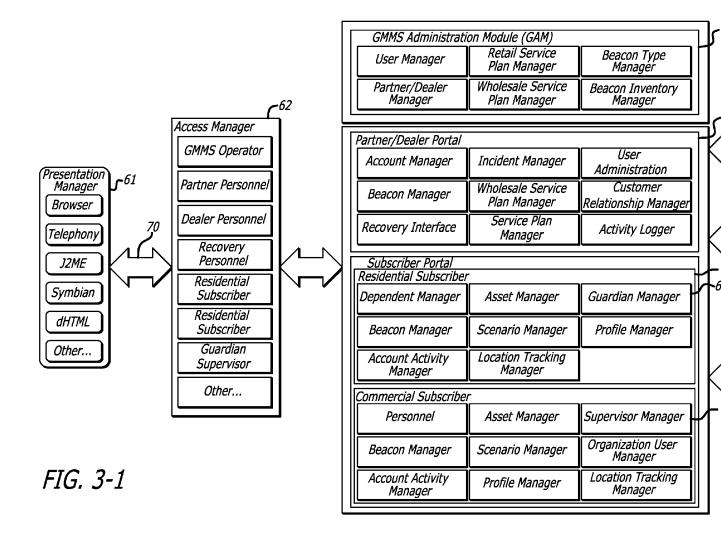


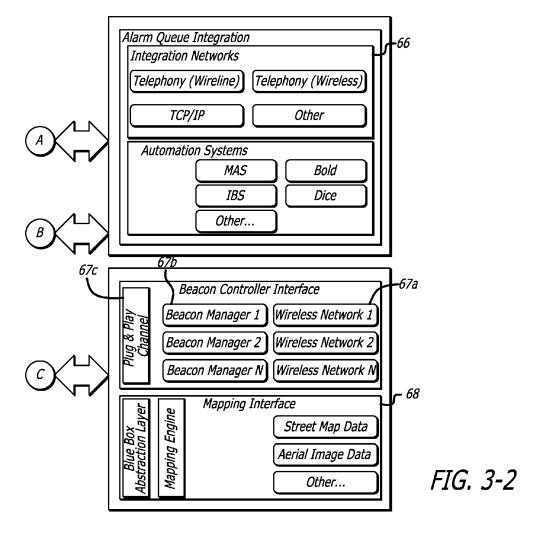
FIG. 1











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