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Burneske et al.

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(54) **TRACKING SYSTEM AND METHODS THEREOF**

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G08B 1/08 (2006.01)

(52) **U.S. Cl.** **340/539.13**; 340/539.1; 340/539.11; 340/539.22; 340/573.1; 340/573.4; 340/825.36; 340/825.49

(58) **Field of Classification Search** 340/539.13, 340/539.1, 539.11, 539.14, 539.16, 539.22, 340/539.23, 572.1, 571.4, 825.49, 825.69, 340/825.72, 573.1, 573.4, 686.1, 825.36
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,275,605 A 6/1981 Kennel 74/5.34
4,290,316 A 9/1981 Noar et al. 74/5.46

4,799,062 A	1/1989	Sanderford, Jr. et al. ...	342/450
5,291,784 A	3/1994	Keyser	73/516
5,309,529 A	5/1994	Gruber	384/536
5,327,212 A	7/1994	Ficalora et al.	356/350
5,383,363 A	1/1995	Kulmaczewski	73/510
5,473,945 A	12/1995	Grieff et al.	73/510
5,635,739 A	6/1997	Grieff et al.	257/254
6,046,531 A	4/2000	Kikuchi et al.	310/367
6,083,353 A *	7/2000	Alexander, Jr.	202/158
6,192,756 B1	2/2001	Kikuchi et al.	73/504.12
6,198,394 B1 *	3/2001	Jacobsen et al.	340/573.1
6,211,790 B1 *	4/2001	Radomsky et al.	340/573.4
6,227,048 B1	5/2001	Kikuchi et al.	73/504.12
6,230,563 B1	5/2001	Clark et al.	73/504.04
6,344,794 B1	2/2002	Ulrich et al.	340/539
6,439,051 B1	8/2002	Kikuchi et al.	73/504.12
6,933,849 B1 *	8/2005	Sawyer	340/572.4
2001/0001928 A1	5/2001	Kikuchi et al.	73/504.12
2003/0231098 A1	12/2003	Wan	338/32
2004/0021569 A1	2/2004	Lepkofker et al.	340/568.1

FOREIGN PATENT DOCUMENTS

WO WO 02/056274 A1 7/2002

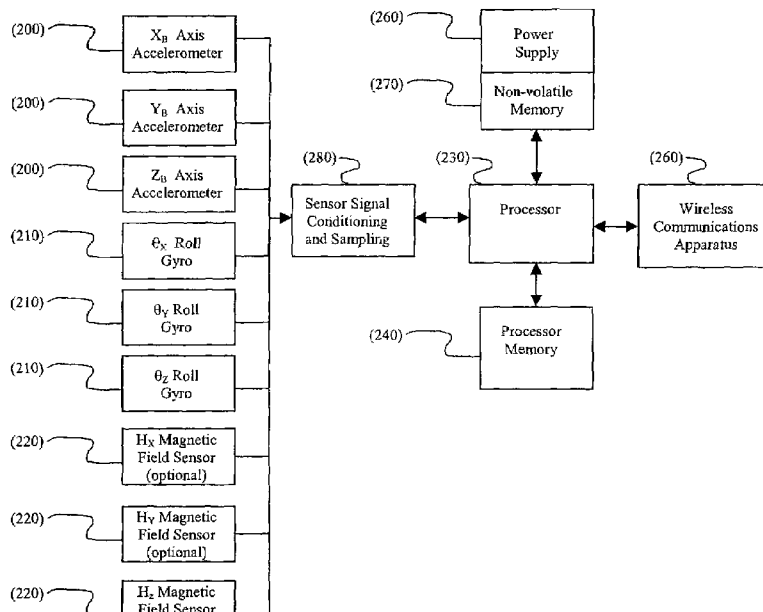
* cited by examiner

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(57) **ABSTRACT**

The present invention relates generally to tracking systems and methods for monitoring the location of an asset or group of assets. In particular, the present invention provides systems for monitoring the location of a large group of assets. Furthermore, the present invention provides systems and methods for identifying an asset within a group of assets.

42 Claims, 7 Drawing Sheets



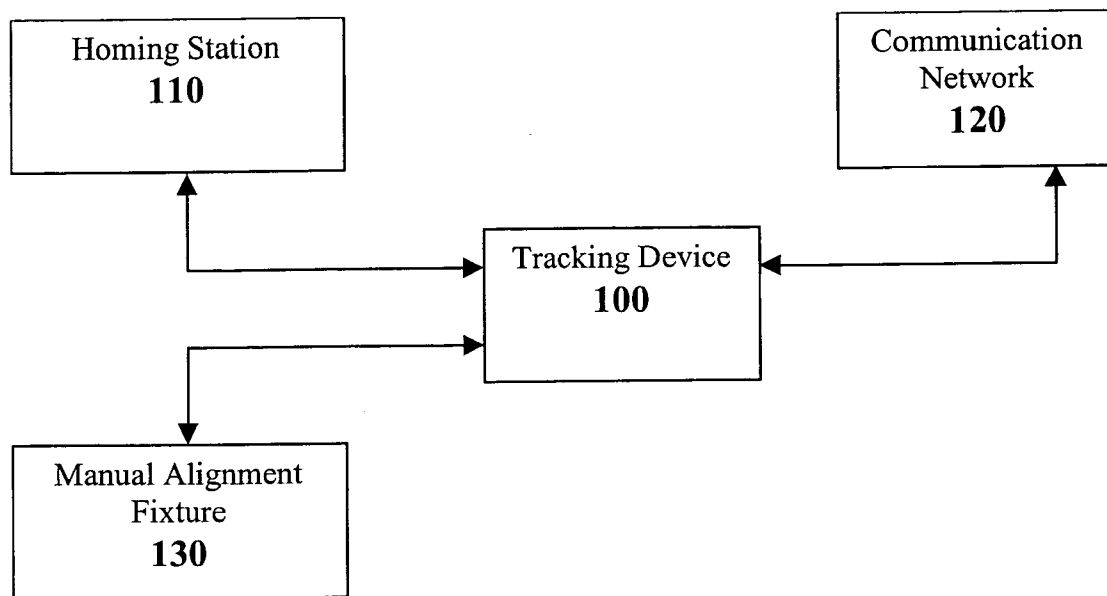


Figure 1

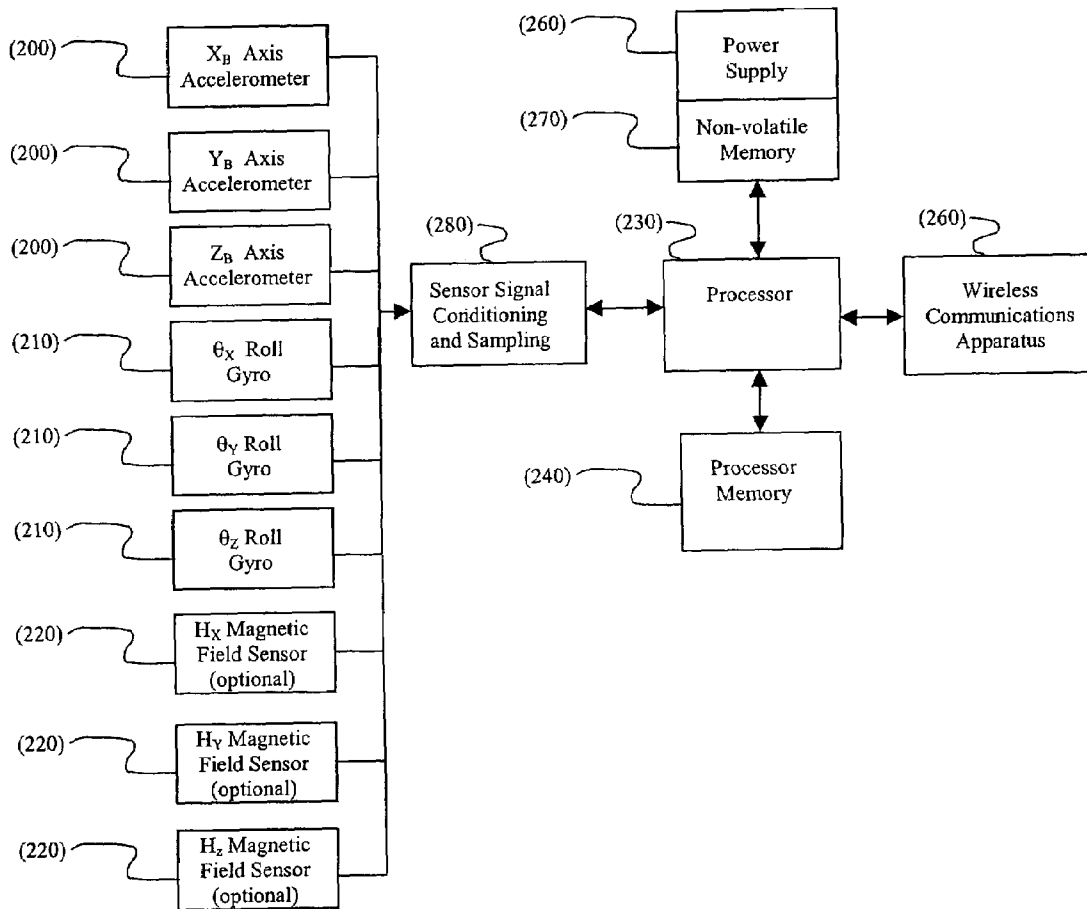


Figure 2

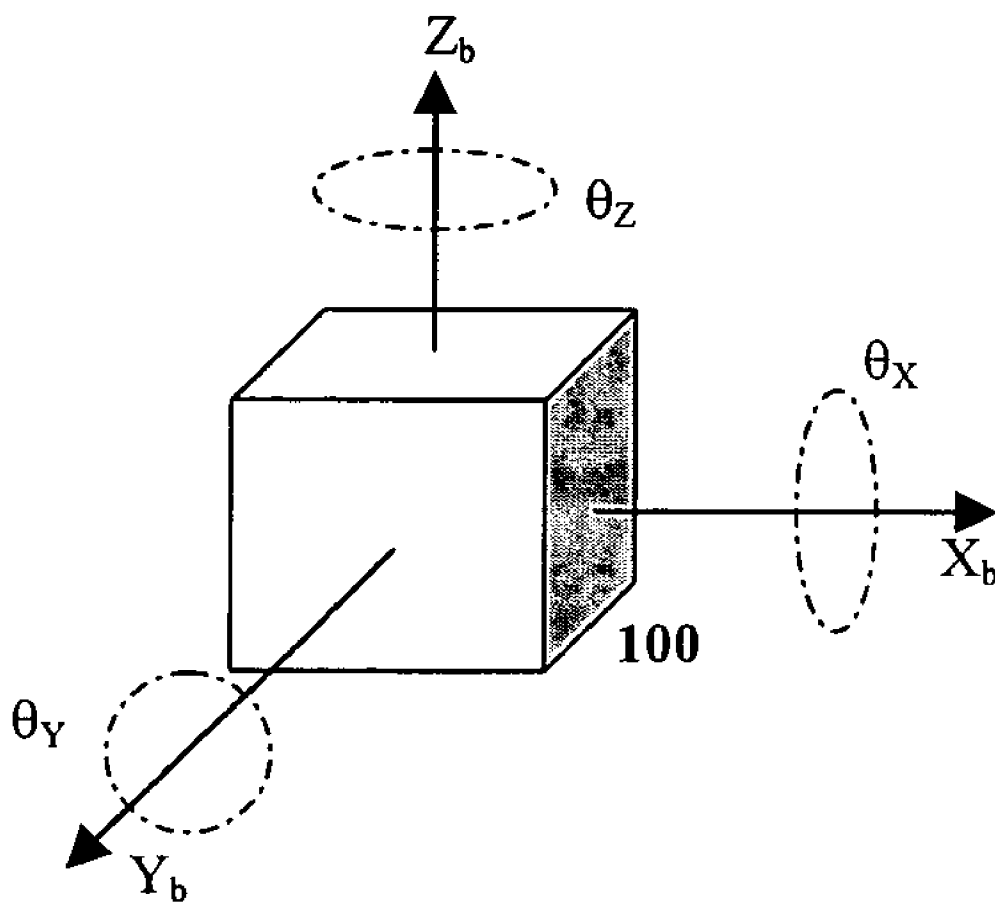


Figure 3

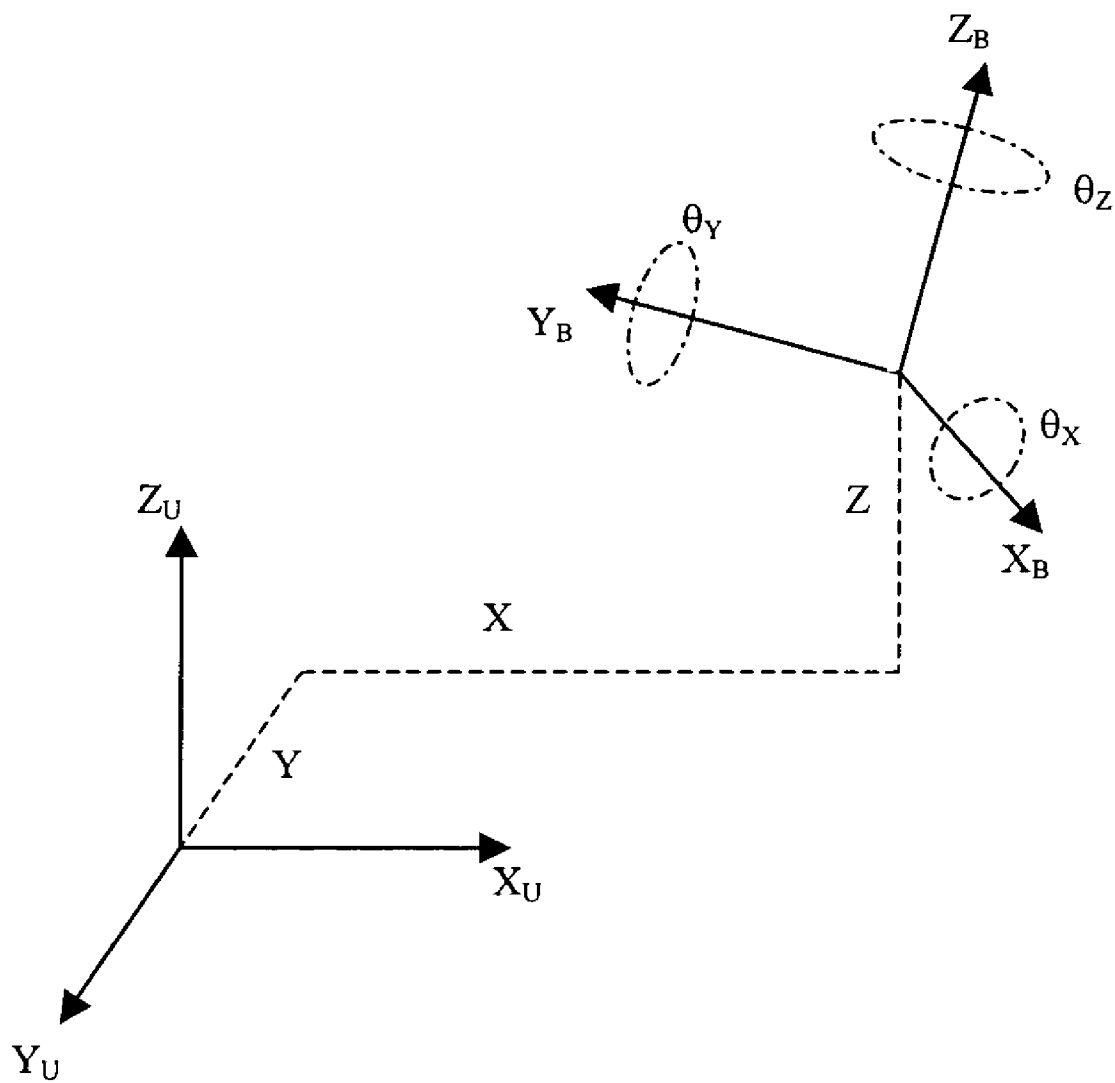


Figure 4

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