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[Continued on next page]

(54) Title: ANTENNAS FOR OBJECT IDENTIFIERS IN LOCATION SYSTEMS

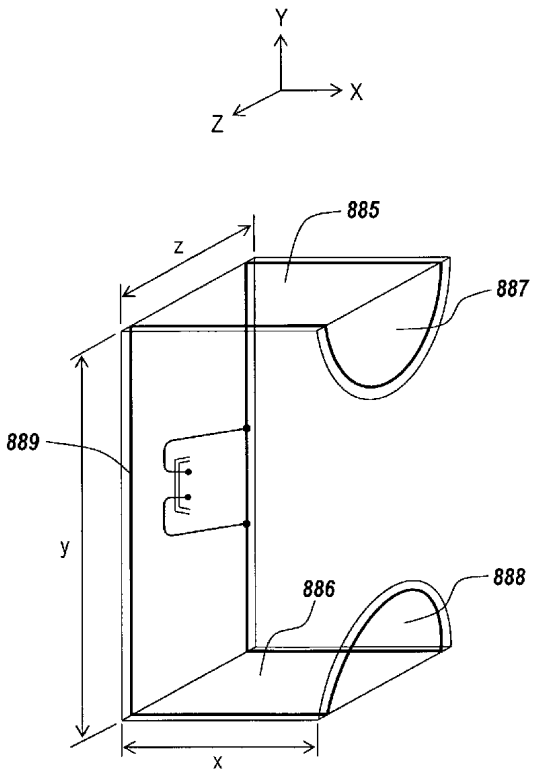

Fig. 4H

(57) Abstract: Transmitters or object identifiers are discloses that are able to radiate consistent power regardless of the object where the transmitters or object identifiers are placed. The transmitter or object identifier may include a vertical loop antenna. The loop plane of the vertical loop antenna is substantially perpendicular to the surface of the object where the transmitter or object identifier is placed. The transmitter or object identifier may include a folded vertical loop antenna where the loop plane of the vertical loop antenna is extended and folded to have additional loop planes. The antennas of the present invention enable the transmitter or object identifier to radiate consistent power regardless of the object where the transmitter or object identifier is placed and regardless of the orientation of the transmitter or object identifier.

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A. CLASSIFICATION OF SUBJECT MATTER
IPC: **G08B 13/14**(2006.01);**H01Q 7/00**(2006.01)

USPC: 340/10.1,572.1,572.7;343/728,788,842,866
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 340/10.1, 572.1, 572.7; 343/728, 788, 842, 866

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 6,069,564 (HATANO et al) 30 May 2000 (30.05.200), Figures 7A and 7B, Abstract, and Column 5, lines 17-30	1-5 --- 6-16
Y	US 6,362,727 B1 (RODGERS et al) 26 March 2002 (26.03.2002), Abstract, Column 7, lines 12-36, Column 17. lines 1-57, Column 18, lines 1-4, and Column 19, lines 39-64.	6-16

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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