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(54) Title: ENVIRONMENTALLY SENSITIVE RECONFIGURABLE ANTENNA

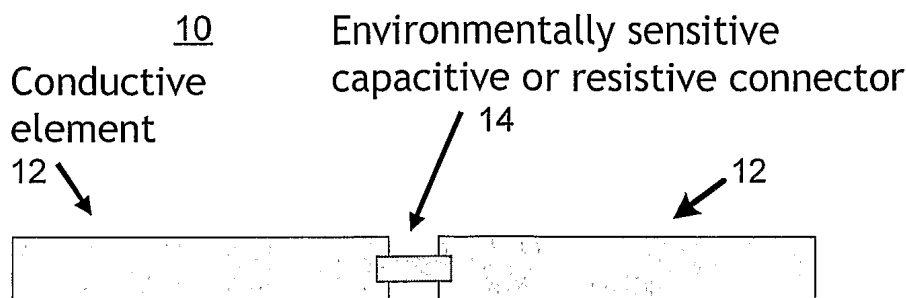


FIGURE 1

(57) Abstract: An antenna whose resonance and electromagnetic radiation properties can be modified by environmental conditions, acoustic conditions, and the like. The reconfiguring antenna acts to facilitate wireless transmission of information about the local environment without the need for local power.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/09595

A. CLASSIFICATION OF SUBJECT MATTER

IPC: **H01Q 1/38**(2006.01),**9/00**(2006.01),**13/10**(2006.01);**G08B 13/14**(2006.01)

USPC: 343/700MS,745,746,749;340/572.3

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. : 343/700MS, 745, 746, 749; 340/572.3

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 7,151,455 (LINDSAY et al.) 19 Dec. 2006 (19,12,2006) figures 1-4	40, 46-47
X	US 7,038,470 B1 (JOHNSON) 2 May 2006 (02,05,2006) figures 1-16	40-45, 48-52, 54-55 and 58
X	US 5,021,795 (MASIULIS) 4 June 1991 (4,06,1991) figures 1-3	1-3, 20-39

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

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document member of the same patent family

Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

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PCT/US06/09595

Continuation of B. FIELDS SEARCHED Item 3:

EAST

search terms: environmental sensitive antenna or sensor or RFID, cantilever resonator, RFID chip, capacitor, bi-metallic strip