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(54) Title: H-FIELD SHAPING USING A SHORTING LOOP

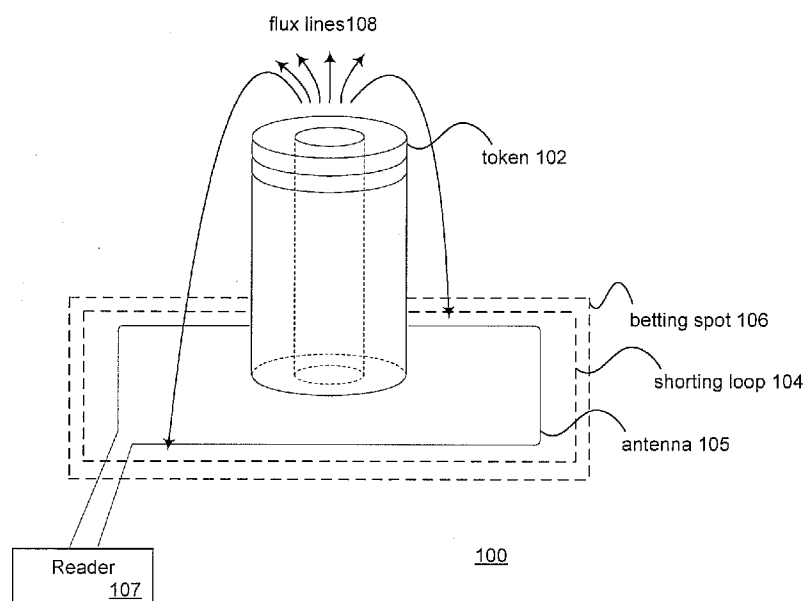


FIG. 1A

(57) Abstract: In one embodiment the present invention includes a radio frequency identification (RFID) system with a shoring loop. The shoring loop at least partially surrounds the antenna. The shoring loop distorts the electromagnetic field generated by the antenna to improve the definition of the border of the read region of the antenna. In this manner, the RFID system provides more accurate discrimination between RFID tags inside the read region versus RFID tags outside the read region (i.e., improves the accuracy of determining that a particular RFID tag is inside the read region).

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2009/041275

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H04B 1/59 (2009.01)

USPC - 340/572.7

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)

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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)

Patbase, Google Patents, Thomson Innovation

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 7,268,687 B2 (EGBERT et al) 11 September 2007 (11.09.2007) entire document	1, 6, 7, 9, 11, 14, 15
Y		2-5, 8, 10, 12, 13
Y	US 2008/0003457 A1 (ENDO) 03 January 2008 (03.01.2008) entire document	13
Y	US 2007/0194931 A1 (MILLER et al) 23 August 2007 (23.08.2007) entire document	2-5, 12
Y	WO 2007/030862 A1 (MURDOCH et al) 22 March 2007 (22.03.2007) entire document	8, 10

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