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(54) Title: HOUSING FOR INDUCTIVE COUPLER FOR POWER LINE COMMUNICATIONS

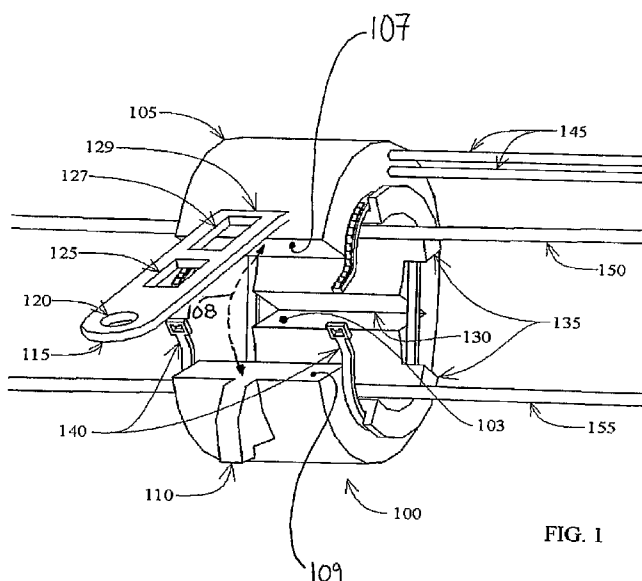


FIG. 1

(57) Abstract: There is provided an inductive coupler. The inductive coupler includes (a) a housing having an aperture that extends lengthwise through the housing, a gap that extends lengthwise along a side of the housing, and a flexible region that enables the gap to be opened or closed, wherein the gap, when opened, permits the inductive coupler to be installed on a conductor by having the conductor routed through the aperture. The inductive coupler also includes (b) a magnetic core; and (c) a winding wound around a portion of the magnetic core. The magnetic core and the winding are secured to the housing such that a position of the magnetic core and a position of the winding are maintained relative to one another. The inductive coupler, when installed on the conductor, couples a signal between the conductor and the winding via the magnetic core.



WO 2008/033527 A3

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H01F 17/06 (2008.01)

USPC - 336/176

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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USPC - 336/75, 77, 79, 115-136, 174, 176

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)

USPTO EAST System (US, USPG-PUB, USOCR), MicroPatent, PatBase

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/0222748 A1 (CERN et al) 04 December 2003 (04.12.2003) entire document	1, 3, 5-7, 16, 17
X	US 6,756,776 B2 (PERKINSON et al) 29 June 2004 (29.06.2004) entire document	1, 15
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Y		2, 4, 18
Y	US 5,426,360 A (MARAIO et al) 20 June 1995 (20.06.1995) entire document	2, 4, 18
Y	US 6,127,465 A (NODERA) 03 October 2000 (03.10.2000) entire document	2, 18
A	US 7,002,333 B2 (BLASCO CLARET et al) 21 February 2006 (21.02.2006) entire document	1-18

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