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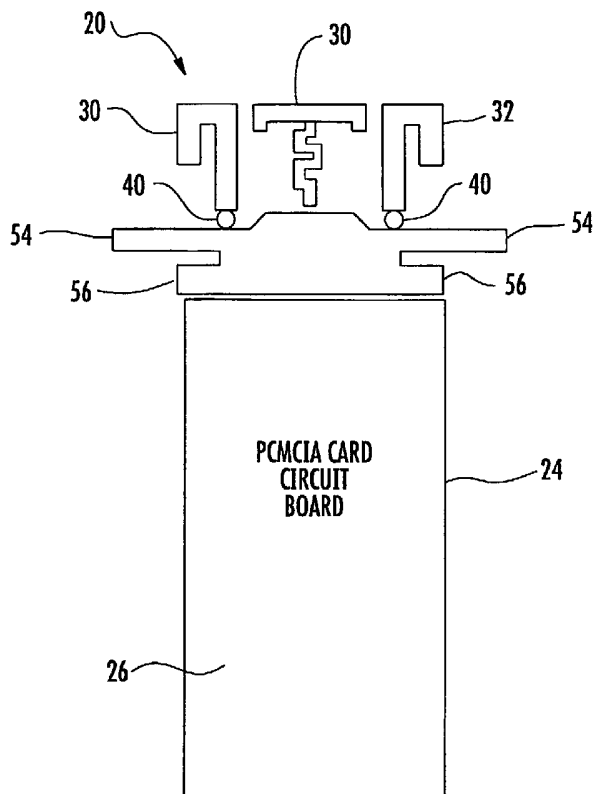
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[Continued on next page]

(54) Title: COMPACT SMART ANTENNA FOR WIRELESS APPLICATIONS AND ASSOCIATED METHODS



(57) Abstract: A smart antenna (20) includes an active antenna element (30), a passive antenna element (32) laterally adjacent the active antenna element, and an impedance element (40) selectively connectable to the passive antenna element for antenna beam steering. A ground plane (40) includes a center portion (52) adjacent the active antenna element, and first and second arms (54, 56) extending outwardly from the center portion. The first arm is connected to the impedance element, and the second arm is laterally adjacent the first arm.

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A. CLASSIFICATION OF SUBJECT MATTER IPC: H01Q 1/24(2006.01),9/38(2006.01),19/00(2006.01),1/50(2006.01) USPC: 343/702,829,833,850 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. : 343/702, 829, 833, 850 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.
A	US 5,767,807 (PRITCHETT) 16 June 1998 (16.06.1998), figure 1	1-35
A	US 5,497,167 (LUOMA) 5 MARCH 1996 (5.03.1996), Abstract	1-35
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
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"O"	document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed	
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Continuation of B. FIELDS SEARCHED Item 3:

EAST

search terms: active antenna, passive antenna, parasitic element, impedance, ground plane, arm