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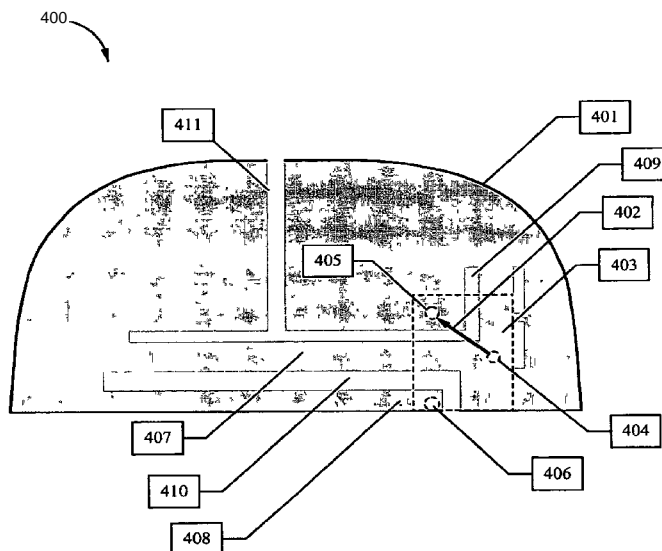
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(57) Abstract: A frequency tunable internal antenna includes a substantially planar radiating element with a feed point and a switching element all coupled to the radiating element. The radiating element includes a plurality of slots configured to form a first branch and a second branch within the radiating element. The plurality of slots are configured relative to the feed point such that in operation the first branch acts as a first resonator having a first native electrical length and the second branch acts as a second resonator having a second native electrical length. The switching element is configurable in a first position and a second position, where in the first position the switching element connects to a portion of the first branch to decrease the electrical length of the first resonator, and in the second position the switching element connects to a portion of the second branch to decrease the electrical length of the second resonator. In some embodiments the antenna is a PIFA antenna and further includes a short point.



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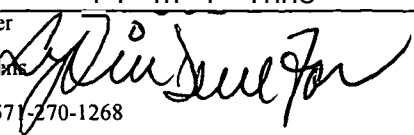
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 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	US 6,140,966 A (PANKINAHO) 31 October 2000 (31 10 2000), whole document	1-33
A	US 6,693,594 B2 (PANKINAHO et al) 17 February 2004 (17 02 2004), whole document	1-33

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