

Title (en)

ANTENNA WITH A CONTROLLABLE SWITCHING ELEMENT CONNECTING TWO ANTENNA PORTIONS

Title (de)

ANTENNE MIT EINEM STEUERBAREN SCHALTELEMENT, DAS ZWEI ANTENNENTEILE VERBINDET

Title (fr)

ANTENNE POURVUE D UN ÉLÉMENT DE COMMUTATION CONTRÔLABLE RELIANT DEUX PARTIES D ANTENNE

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Abstract (en)

[origin: WO2010041189A1] It is described an antenna circuit (120) for a Radio Frequency Identification reader module (140). The antenna circuit (120) comprises a first antenna portion (121) with a first contact node (121a) for connecting the first antenna portion (121) to the Radio Frequency Identification reader module (140), a second antenna portion (122) with a second contact node (122a) for connecting the second antenna portion (122) to the Radio Frequency Identification reader module (140), and a controllable switching element (130), which connects the first antenna portion (121) to the second antenna portion (122). The controllable switching element (130) is adapted to change the ohmic resistance between the first antenna portion (121) and the second antenna portion (122) as a function of a control signal, which is applied to the controllable switching element (130). It is further described a RFID reader system (100), which comprises a RFID reader module (140) and an antenna circuit (120) as described above. Furthermore, it is described a method for adjusting the quality factor of an antenna circuit (120) as described above.

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