

Title (en)
ANTENNA SWITCH CIRCUIT

Title (de)
SCHALTUNG ZUR ANTENNENUMSCHALTUNG

Title (fr)
CIRCUIT DE COMMUTATION D'ANTENNE

Publication
EP 1654811 A1 20060510 (EN)

Application
EP 04766093 A 20040628

Priority
• EP 2004051277 W 20040628
• GB 0318612 A 20030808

Abstract (en)
[origin: GB2404797A] An antenna switch circuit 300 for use in an RF transceiver is connected to a transmitter circuit 103, a receiver circuit 102, and an antenna 101. The switch circuit 300 selectively connects the transmitter 103 and the receiver 102 circuits to the antenna 101. Electrically-controlled devices, such as PIN diodes D1-4, are arranged to perform the switching and to prevent electrostatic discharges of either positive or negative polarity from reaching the transmitter 103 or receiver 102 circuits. Two pairs of PIN diodes D1,3, D2,4 may each be connected so that they have opposed unipolar conductivities. A dc voltage may be applied through an RF-isolating component RFC1, 2 to control the electronically-controlled devices D1-4. The antenna switch circuit 300 may be included in an RF communications apparatus, such as a mobile or fixed radio terminal, or in mobile telephones, mobile radios, or data communications terminals. In a further embodiment the antenna switch circuit may also protect from excessive RF power entering the antenna.

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