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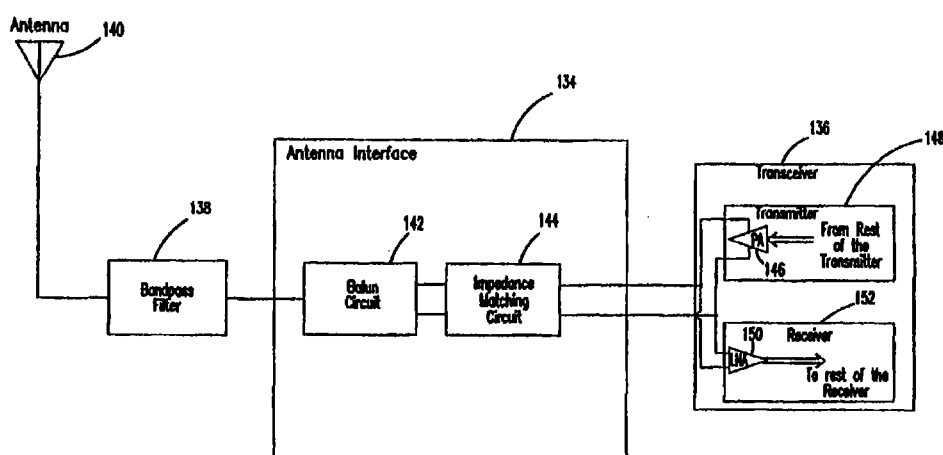
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(54) Title: **ANTENNA INTERFACE**

(57) Abstract: An antenna interface for a Time Division Duplex (TDD) radio transceiver allows a transceiver to be attached to an antenna/filter without the need for an antenna switch. The antenna interface includes a single Balun circuit to convert a single-ended signal to/from differential signals, and a single impedance matching circuit to match an impedance at an output of the single Balun circuit with an input impedance of a Low Noise Amplifier (LNA) of a receiver and to provide an output impedance of a Power Amplifier (PA) of a transmitter. The single impedance matching circuit is coupled to both the LNA and the PA. The LNA and the PA are based on CMOS technology and made within a single integrated circuit.



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