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The invention refers to the electric measuring devices, especially for measurement of the high precision impedance components.
The method of measurement includes formation of the resonance circuit, containing a measuring object and the impedance converter output terminals, power supply of the measuring circuit with a signal, control of the non-equilibrium signal obtained as a result of interaction of the resonance circuit with the signal, balancing of the resonance circuit by regulation reproduced by the impedance converter and determination of the unknown impedance measuring components depending on the converter input values. Regulation of module and phase of the impedance reproduced by the converter is carried out independently. Balancing of the measuring circuit is carried out in three stages: in the first stage it is reproduced the trial impedance of the arbitrary value; in the second stage it is regulated the phase of the reproducing impedance up to the minimal value of the non-equilibrium signal; in the third stage it is regulated the module of the reproducing impedance up to the achievement of the measuring circuit balance state.

Claims: 1
Fig.: 3