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The invention relates to the measurement engineering and radio electronics and may be used for high-accuracy reproduction of floating admittances in the Cartesian coordonates.
The admittance converter comprises two contacts (2, 3), a differential amplifier (1) connected to the contacts, a phase shifter (6), a programmable amplifier (4) having its input connected to the output of the differential amplifier (1) and its output to the input of the phase shifter (6), a voltage-to-current conversion block. The converter additionally comprises a second programmable amplifier (5) having its input connected to the output of the first differential amplifier (1) and a second differential amplifier (7) having its input connected to the output of the phase shifter (6) and, respectively, to the output of the second programmable amplifier (5). The voltage-to-current conversion block has its input connected to the output of the differential amplifier (7) and consists of two voltage-to-current converters (8, 9) with equal conversion factors of opposite signs, the outputs of which are connected to the first and, respectively, the second contacts. Both programmable amplifiers ensure adjusted transport factors with positive and negative values, and the phase shifter ensures a phase shift of 90°.

Claims: 2
Fig.: 1