

AN APPARATUS FOR PRODUCING UNVARYING DIRECT LOAD CURRENT

ABSTRACT

The proposed variants of the technical solutions are intended for producing direct current which flows through a circuit for supplying power to a variable load (51). The proposed variants of the technical solutions contain a direct voltage source (1), a transformer of direct voltage to pulse voltage (2), a first galvanic decoupling node (24), a transformer of pulse voltage to direct voltage (28), a load (51), a direct-current stabilizer (53), a control circuit (72) and a second galvanic decoupling node (78). Corresponding connections of the load (51), the direct-current stabilizer (53) and the control circuit (72) allow for: stabilizing the direct current flowing through the circuit for supplying power to the load (51); stabilizing the voltage at the direct-current stabilizer (53) and producing a constant DC value flowing through the variable-load circuit, across a broader range of loads, wherein the polarity of voltages across a load relative to a direct voltage source (1) may change in accordance with the embodiment of the device.

[Figure 1A]