

Title (en)
DEVICE FOR CONTROLLING THE VOLTAGE BETWEEN TWO CONDUCTORS OF AN A.C. SUPPLY MAINS FOR A RAPIDLY CHANGING LOAD

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EP 0026260 B1 19840328 (DE)

Application
EP 80103430 A 19800619

Priority
DE 2939251 A 19790927

Abstract (en)
[origin: US4357570A] A circuit for controlling the voltage of a network which supplies electrical power to a load having a rapidly varying impedance. The circuit contains a pair of controlled electric valves which are connected in parallel between two conductors of the network and poled for condition in opposite directions. A voltage transformer produces a signal corresponding to the network voltage, which signal is conducted to an integrator and subsequently compared to a preset mean value. The preset mean value corresponds to a desired amplitude at which the positive and negative half-wave cycles of the network voltage are desired to be maintained. In one embodiment, the controlled electric valves are caused to conduct current during respective half-waves of network voltage so as to maintain the amplitudes of the half-waves at the present mean value. Other features are described for compensating for long term drift of the network voltage and for controlling the controlled electric valves by means of logic circuitry.

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