

Title (en)
INSTALLATION FOR PROVIDING A FILTERED AND STABILIZED MAINS VOLTAGE

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EP 0246251 B1 19900103 (DE)

Application
EP 86906261 A 19861119

Priority
CH 498285 A 19851123

Abstract (en)
[origin: WO8703392A1] The installation is connected between the mains and the user and comprises a circuit in which two complementary parallel circuits (3, 4; 15, 16) are mounted symmetrically in series between the poles of the mains and the poles of the user. The control terminals of the complementary circuits are subjected to reproduction of the ideal mains voltage, coinciding in phase with the mains voltage and produced by a damped parallel oscillating circuit (12) which stabilizes transients, is excited by the mains and is tuned to the mains frequency. The complementary circuits are fed from the mains with capacitor support. Small mains voltage anomalies are smoothed out by the first complementary circuit (3, 4), which for this purpose uses a small supply voltage and thus has very small losses. Large mains anomalies are eliminated by the second complementary circuit (15, 16), which is fed with a larger supply voltage, and, because of the increase in the threshold voltage of its transistors, comes into service only when the first complementary circuit is fully operated. To prevent reverse current, the supply lines of the first complementary circuit (3, 4) are provided with diodes (7, 8).

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