

Title (en)

ELECTRONIC THERMAL POWER MULTIPLIER

Title (de)

ELEKTRONISCHER WÄRMEENERGIEMULTIPLIZIERER

Title (fr)

MULTIPLICATEUR ÉLECTRONIQUE D'ÉNERGIE THERMIQUE

Publication

**EP 3345451 A1 20180711 (EN)**

Application

**EP 16781532 A 20160824**

Priority

- GR 20150100389 A 20150901
- GR 2016000041 W 20160824

Abstract (en)

[origin: WO2017037481A1] Electronic thermal power multiplier <u>10</u>, which consists of a layout of circuits (35-39), which convert the mains voltage into an intermittent pulse power current through electronic power relays (40-46). The electronic circuits (35-39) are fitted inside the control panel (1), and outside there are operator switches for the device, that is, the main power switch (11) and the operating command switches (12-18) for the final power relays, which convert the AC that comes from the voltage regulator (34), which is set by the potentiometer (28). For the setting, we use the indications of the measuring instruments, i.e. the voltmeter (26) and the ammeter (27). After the adjustment, which sets the proper operation of pulses and voltage, we obtain the intermittent pulse power current from the power relays (40-46), with which we supply the resistors (19-25) of the radiators (2-8) or the electrodes for heating liquids (55) with power. Depending on the wattage loads, which we have available, we also supply the corresponding power relays with intermittent pulse power current in Ampere. The device works with both single-phase and three-phase input alternating current, and through its transformation into intermittent pulse power current, we supply with power the connected resistors, such as the metal component (47) for heating or the electrode for water heating (55), or any resistor that we wish to operate, regardless of the type of electric appliance, reducing thus the power consumption through the method of the electronic thermal power multiplier.

IPC 8 full level

**H05B 1/02** (2006.01)

CPC (source: EP GR)

**H05B 1/0275** (2013.01 - EP); **H05B 3/00** (2013.01 - GR)

Citation (search report)

See references of WO 2017037481A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

**GR 2016000041 W 20160824**; EP 16781532 A 20160824; GR 20150100389 A 20150901