

Title (en)
DEVICE FOR CONTROLLING A PLURALITY OF ELECTRICAL CONSUMERS

Title (de)
VORRICHTUNG ZUR ANSTEUERUNG EINER MEHRZAHL VON ELEKTRISCHEN VERBRAUCHERN

Title (fr)
DISPOSITIF DE COMMANDE D'UNE PLURALITÉ DE CONSOMMATEURS ÉLECTRIQUES

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Abstract (en)
[origin: WO2011047818A1] The invention relates to a device for controlling a plurality of electrical consumers to which a constant control current is applied at control nodes. According to the invention, a transformer unit to which a regulated and/or constant current having a predetermined frequency is applied at the input end comprises at least one first and a second winding at the output end which have a common tap, a first circuit branch forming a first control node for a first electrical consumer is associated with the first winding, and a second circuit branch forming a second control node for a second electrical consumer is associated with the second winding. Furthermore, the first and the second circuit branch each have a magnetically interacting pair of reactors which are wound in opposite directions relative to each other, and a first reactor of said pair is connected to the first control node via rectifying means, while a second reactor of the same pair is connected to the second control node via rectifying means. The reactors that are connected to one of the control nodes are wound in opposite directions. The pairs of reactors are magnetically coupled, in particular having a common reactor core.

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