

Title (en)

A system and method for controlling resistive loads with ground return connected to the engine ground

Title (de)

System und Verfahren zur Steuerung ohmscher Lasten mit an der Motormasse angeschlossener Erdrückleitung

Title (fr)

Système et méthode pour contrôler des charges résistives avec masse connectée à la masse du moteur

Publication

**EP 1933025 A1 20080618 (EN)**

Application

**EP 06026131 A 20061216**

Priority

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Abstract (en)

A controller (9) for controlling electrical power supplied to one or more loads comprises a first supply terminal for connecting to a supply potential, a second supply terminal (14) for connecting to a ground potential, a set of output terminals (10;10 1 ,10 2 ,...) for connecting to a respective load (8;8 1 ,8 2 ,...), the set comprising at least one output terminal, a power supply circuit (12) for supplying a power-controlled intermittent current to each output terminal (10;10 1 ,10 2 ,...), a voltage measuring means (11) for measuring a first voltage level (U ON ) at an output terminal (10;10 1 ,10 2 ,...) of said set during an ON period of the intermittent current supplied to this terminal, and for measuring a second voltage level (U OFF ) at an output terminal (10;10 1 ,10 2 ,...) of said set during an OFF period of the intermittent current supplied to this terminal, and a power control means (13) for controlling the power of said intermittent current based said first and second voltage levels. The problem solved is to control power supplied to a load in a reliable way which is not influenced by a deviation between ground potentials of a power controller and of the load itself.

IPC 8 full level

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CPC (source: EP)

**F02P 19/022** (2013.01); **F02P 19/023** (2013.01); **F02D 2041/2027** (2013.01); **F02D 2400/14** (2013.01)

Citation (search report)

- [X] DE 29620634 U1 19970206 - HELLA KG HUECK & CO [DE]
- [A] WO 2006009523 A1 20060126 - COSYLAB D O O [SI], et al

Citation (examination)

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JP2009002347A; ES2648862R1; EP2006534A3; EP2006534A2; WO2010066523A1; JP2014025447A

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

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