Title (en)

IMPROVEMENTS IN AND RELATING TO POWER REGULATION DEVICES

Title (de)

VERBESSERUNGEN AN UND IN ZUSAMMENHANG MIT LEISTUNGSREGELUNGSVORRICHTUNGEN

Title (fr)

AMÉLIORATIONS APPORTÉES À DES DISPOSITIFS DE RÉGULATION DE LA PUISSANCE ET S'Y RAPPORTANT

Publication

EP 2671299 A2 20131211 (EN)

Application

EP 12707118 A 20120203

Priority

- GB 201101871 A 20110203
- GB 2012050234 W 20120203

Abstract (en)

[origin: GB2487763A] A voltage regulator 11, arranged to supply an output voltage to a load at more than one voltage level, has a means to adjust an output voltage in response to a control signal, and an energy measurement means 8 to measure the power at each voltage level. The voltage regulator outputs a number of voltages e.g. the mains supply voltage and a lower optimum voltage that reduces power consumption of a load. The regulator is switched periodically between voltage levels and the energy measurement means is used to measure energy consumption at each level to determine e.g. the reduction in energy usage at the optimum voltage. The energy measurement means may be associated with a controller 7 that switches the regulator to the voltage with the lowest power consumption. The voltage regulator may be a transformer 3 with multiple taps providing the different voltage levels via switches 4 - 6.

IPC 8 full level

H02J 3/00 (2006.01)

CPC (source: EP GB US)

G01R 21/06 (2013.01 - GB US); **G05F 1/14** (2013.01 - GB); **H02J 3/1878** (2013.01 - GB); **H02M 1/0025** (2021.05 - EP US); **H02M 5/12** (2013.01 - GB); **H02P 13/06** (2013.01 - GB); G01R 21/06 (2013.01 - EP); G01R 31/42 (2013.01 - EP)

Citation (search report)

See references of WO 2012104651A2

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