

Title (en)

Power control apparatus with optical isolation feedback means.

Title (de)

Leistungssteuerungsgerät mit opto-isolierter Rückkupplung.

Title (fr)

Appareil de contrôle de puissance avec moyen de contre-réaction à opto-couplage.

Publication

EP 0124864 A1 19841114 (EN)

Application

EP 84104907 A 19840502

Priority

US 49228583 A 19830506

Abstract (en)

The invention comprises transformerless power supply apparatus particularly adapted for supplying regulated power to critically sensitive loads such as tungsten lamp filament loads of designed power rating. Power control is achieved by a triggered triac in series with the load, and regulation is provided by a feedback circuit, voltage or current, which generates the triac trigger signal periodically as a function of the load voltage or current. The feedback circuit is provided with a photo isolator for eliminating premature triggering of the triac due to transients. A timing circuit is also provided for timing the power on condition, the output of which is photo isolator coupled to the triac feedback circuit.

IPC 1-7

G05F 1/455; **H05B 39/08**

IPC 8 full level

G05F 1/10 (2006.01); **G05F 1/455** (2006.01); **H05B 39/08** (2006.01); **H05B 41/392** (2006.01)

CPC (source: EP)

G05F 1/455 (2013.01); **H05B 39/083** (2013.01); **H05B 41/392** (2013.01)

Citation (search report)

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- [Y] US 4344071 A 19820810 - ALLEN GLENN R
- [A] US 4064404 A 19771220 - WILLMOTT COLIN BARNES, et al
- [Y] ELECTRICAL DESIGN NEWS, vol. 26, no. 9, 29th April 1981, pages 176-178, Boston, USA; T. HOPKINS: "Regulate lamp output with one IC"

Cited by

US5237244A; EP0375289A3

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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