

Title (en)
Method to control fluorescent lamps

Title (de)
Verfahren zum Betreiben von Leuchtstofflampen und Vorschaltgerät

Title (fr)
Procédé de commande de lampes fluorescentes

Publication
EP 1395096 A2 20040303 (DE)

Application
EP 03017859 A 20030805

Priority
DE 10240807 A 20020830

Abstract (en)
The method involves using a voltage adapter, a controller and at least one load circuit connected to the adapter's inverter forming a resonant circuit in which at least one lamp is operated with a HF current from the inverter whose frequency is varied to set the power taken by the lamp by a first control loop. A second control loop with a shorter cycle than the first stabilizes the power take-up of the at least one lamp to a defined value. The method involves using a voltage adapter, a controller (ST) and at least one load circuit connected to the adapter's inverter forming a resonant circuit in which at least one lamp (LP) is operated with a high frequency current from the inverter whose frequency is varied to set the power taken by the lamp by a first control loop. A second control loop with a shorter cycle than the first stabilizes the power take-up of the at least one lamp to a defined value. AN Independent claim is also included for the following: (a) a voltage adapter for operating fluorescent lamps

Abstract (de)
Die Erfindung betrifft ein Betriebsverfahren für Leuchtstofflampen und ein entsprechendes Vorschaltgerät, bei dem durch Variation der Schaltfrequenz der Wechselrichterschalter (T1, T2) die Helligkeit der Leuchtstofflampen (LP) auf den gewünschten Wert eingestellt wird. Um in einem kritischen Dimm-Bereich Oszillationen zwischen unterschiedlichen Betriebszuständen zu verhindern, wird erfindungsgemäß mittels einer zusätzlichen Regelschleife die Leistungsaufnahme der Leuchtstofflampen (LP) stabilisiert. <IMAGE>

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H05B 41/298; **H05B 41/392**

IPC 8 full level
H05B 41/298 (2006.01); **H05B 41/392** (2006.01)

CPC (source: EP US)
H05B 41/2988 (2013.01 - EP US); **H05B 41/3925** (2013.01 - EP US)

Citation (applicant)
• EP 0422255 B1 19940302 - SIEMENS AG [DE]
• EP 0287360 A2 19881019 - SHARP KK [JP]
• US 4894587 A 19900116 - JUNGREIS AARON [US], et al

Cited by
WO2011070470A1; CN102640572A; US8664894B2

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