

Title (en)

Means and method for controlling lumen output and power consumption of phosphor excitable lamps.

Title (de)

Vorrichtung und Verfahren zur Regelung von Lumen Ausgang sowie Leistungsverbrauch bei phosphorerregbaren Lampen.

Title (fr)

Dispositif et procédé pour régler la sortie de lumens et la consommation de puissance dans des lampes excitables au phosphore.

Publication

EP 0162156 A1 19851127 (EN)

Application

EP 84303426 A 19840521

Priority

US 60247784 A 19840420

Abstract (en)

Devices and methods for reducing power consumption and correspondingly reducing lumen output of a phosphor excitable lamp, such as a fluorescent lamp, connected to a source of power for operation of the same, without any appreciable loss of operating efficiency. A load limiting arrangement, often referred to as a load limiting control device, and which generally includes a capacitive element, alone or in combination with an inductive member such as a transformer is electrically connectable to one terminal of the phosphor excitable lamp. This device, when connected, is effectively electrically interposed between the lamp and the source of power in a series connection. In this way, the lumen output is reduced but with substantially uniform lumen output at the reduced level and the power consumption is reduced without substantially changing the voltage to the lamp and without any appreciable effects on the efficiency of operation of the lamp or the source of power.

IPC 1-7

H05B 41/16

IPC 8 full level

F21V 23/00 (2006.01); **H05B 41/04** (2006.01)

CPC (source: EP)

F21V 23/00 (2013.01); **H05B 41/04** (2013.01)

Citation (search report)

- US 4256993 A 19810317 - MORTON EDWARD W
- US 4339690 A 19820713 - REGAN ROBERT J, et al
- US 4255692 A 19810310 - BURGESS DAVID
- US 4107581 A 19780815 - ABERNETHY ROBERT R
- US 4135115 A 19790116 - ABERNETHY ROBERT R, et al
- US 3954316 A 19760504 - LUCHETTA JULIUS FRANK
- US 3956665 A 19760511 - WESTPHAL JAMES A
- US 4053811 A 19771011 - ABERNETHY ROBERT RAY

Cited by

GB2196806A

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0162156 A1 19851127

DOCDB simple family (application)

EP 84303426 A 19840521