

Title (en)

Electronic quad ballast with improved hot restart.

Title (de)

Elektronisches Verschaltgerät für Kompaktleuchtstofflampe mit verbesserter Heisswiederzündung.

Title (fr)

Ballast électronique pour tube fluorescent de type "compact" avec réamorçage à chaud amélioré.

Publication

**EP 0641147 A1 19950301 (EN)**

Application

**EP 94305694 A 19940801**

Priority

US 11312393 A 19930830

Abstract (en)

A unique ballast circuit arrangement for a low pressure discharge lamp provides an improved electrode preheat circuit which insures the same proper preheat start each time the lamp is turned on, including hot restart conditions. Electronic circuitry converts a low frequency AC input to a high frequency AC output, which is provided to the low pressure discharge lamp. A preheat circuit having a positive temperature coefficient element, a bidirectional switch, and a capacitor connected in series with both lamp electrodes, provides proper start conditions under all start conditions. Cathode quiescent losses during normal lamp operation are eliminated, thereby simultaneously improving ballast efficiency and system efficacy values of the ballast circuit arrangement and the low pressure discharge lamp. <IMAGE>

IPC 1-7

**H05B 41/29**

IPC 8 full level

**H05B 41/24** (2006.01); **H05B 41/232** (2006.01); **H05B 41/295** (2006.01)

CPC (source: EP)

**H05B 41/295** (2013.01)

Citation (search report)

- [X] WO 8504769 A1 19851024 - NIGG JUERG
- [X] WO 9300784 A1 19930107 - PROLUX MASCHINENBAU GMBH [DE]
- [A] WO 9107070 A1 19910516 - SKYLINE HOLDING AG [CH]

Cited by

GB2301955A

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 0641147 A1 19950301**; CA 2130423 A1 19950301; JP H07153584 A 19950616

DOCDB simple family (application)

**EP 94305694 A 19940801**; CA 2130423 A 19940818; JP 19583694 A 19940822