

Title (en)
Control of lighting devices over a modulated DC bus

Title (de)
Ansteuerung von Leuchtmittel-Betriebsgeräten über einen modulierten DC-Bus

Title (fr)
Commande des dispositifs d'éclairage par des signaux modulés sur bus à courant continu

Publication
EP 1555859 A1 20050720 (DE)

Application
EP 04027898 A 20041124

Priority
DE 102004002026 A 20040114

Abstract (en)
The method involves using a central rectifier/PFC unit (20) that supplies several light source operating devices using at least one d.c. output stage (11), whereby the d.c. supply voltage has a high frequency digital control signals modulated onto it using powerline technology (17) that are read out in the operating devices (1) using powerline demodulators (15) and evaluated for controlling the associated light sources (14). An independent claim is also included for a control system for light source operating devices.

Abstract (de)
Leuchtmittel-Betriebsgeräte werden mittels einer zentralen Gleichrichter/PFC-Einheit (2, 10) angesteuert, die mittels wenigstens eines DC-Ausgangskreises (11) mehrere Leuchtmittel-Betriebsgeräte (1) versorgt. Der DC-Versorgungsspannung wird in einer Powerline-Technik (17) hochfrequente digitale Steuersignale aufmoduliert, die durch Powerline-Demodulatoren (15) in den Betriebsgeräten (1) ausgelesen und zur Ansteuerung des zugeordneten Leuchtmittels (5) ausgewertet werden können <IMAGE>

IPC 1-7
H05B 41/24; **H05B 41/282**; **H05B 41/288**; **H04B 3/54**

IPC 8 full level
H05B 37/02 (2006.01); **H02J 13/00** (2006.01); **H05B 41/24** (2006.01)

CPC (source: EP)
H05B 41/245 (2013.01); **H05B 47/185** (2020.01)

Citation (applicant)
• WO 9427419 A1 19941124 - ETTA IND INC [US]
• US 5245253 A 19930914 - QUAZI FAZLE S [US]
• US 2003222603 A1 20031204 - MOGILNER RAFAEL [IL], et al
• US 5539388 A 19960723 - MODGIL O S [US]
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Citation (search report)
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• [Y] US 5539388 A 19960723 - MODGIL O S [US]
• [A] US 6373375 B1 20020416 - HOETZEL JUERGEN [DE], et al

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EP 04027898 A 20041124; DE 102004002026 A 20040114; EP 10182692 A 20041124; HK 11102989 A 20110324