

Title (en)
LED DIMMING CONTROLLER

Title (de)
LED DIMMERSTEUERUNG

Title (fr)
GRADATEUR POUR DEL

Publication
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Application
EP 03736588 A 20030509

Priority
• US 0314883 W 20030509
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• US 39162702 P 20020626

Abstract (en)
[origin: WO03096761A1] Methods and apparatus for providing power to devices via an A.C. power source, and for facilitating the use of LED-based light sources on A.C. power circuits that provide signals other than standard line voltages. In one example, LED-based light sources may be coupled to A.C. power circuits that are controlled by conventional dimmers (i.e., "A.C. dimmer circuits"). Hence, LED-based light sources may be conveniently substituted for other light sources (e.g., incandescent lights) in lighting environments employing conventional A.C. dimming devices and/or other control signals present on the A.C. power circuit. In yet other aspects, one or more parameters relating to the light generated by LED-based light sources (e.g., intensity, color, color temperature, temporal characteristics, etc.) may be conveniently controlled via operation of a conventional A.C. dimmer and/or other signals present on the A.C. power circuit.

IPC 8 full level
H05B 37/02 (2006.01); **H05B 41/00** (2006.01); **H01L 33/00** (2010.01); **H05B 44/00** (2022.01); **F21K 99/00** (2010.01); **F21Y 101/02** (2006.01); **F21Y 113/00** (2006.01)

CPC (source: EP US)
H05B 45/20 (2020.01 - EP US); **H05B 45/3577** (2020.01 - EP US); **H05B 45/37** (2020.01 - EP US); **H05B 45/3725** (2020.01 - EP US); **F21K 9/232** (2016.08 - EP US); **F21Y 2113/13** (2016.08 - EP); **F21Y 2115/10** (2016.08 - EP US); **H05B 45/325** (2020.01 - EP US)

Citation (examination)
US 2002048169 A1 20020425 - DOWLING KEVIN J [US], et al

Citation (opposition)
Opponent : Megaman Ltd., Neonlite Int. Ltd., Neonlite Electrical & Lighting (HK) Ltd.
• US 4211955 A 19800708 - RAY STEPHEN W [US]
• US 5661645 A 19970826 - HOCHSTEIN PETER A [US]
• US 5463280 A 19951031 - JOHNSON JAMES C [US]
• EP 0876085 A2 19981104 - INCERTI & SIMONINI DI INCERTI [IT]
• US 2002048169 A1 20020425 - DOWLING KEVIN J [US], et al
• EP 0727920 A1 19960821 - VARI LITE INC [US]
• JP 2001209049 A 20010803 - SONY CORP
• JERRY C. WHITAKER: "The Communications Facility Design Handbook", 2000, ISBN: 0849309085, article "Chapter 6", pages: 232 - 233, XP055337467

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CN101808453A; US9775212B2; US11297705B2; US10342086B2; US10973094B2; US10206378B2; US10506801B2; US10091857B2; US10485072B2; US9695995B2; US11284491B2; US8643308B2; US9615432B2; US8933642B2; US11528792B2; US9232590B2; US10237956B2; US10537012B2; US9807842B2; US10176689B2; US10713915B2; US10966295B2; US10036549B2; US10314125B2; US10571115B2; US11073275B2; US11638336B2; US11678420B2; US9832837B2; US10136486B2; US9441795B2; US9635727B2; US10182480B2; US10560992B2; US10617099B2; US10932339B2; US11333308B2; US9066403B2; US10161568B2; US10690296B2; US10772172B2; US11028972B2; US11428370B2; US8373363B2; US9253844B2; US9867243B2; US10260686B2; US11317495B2; US11729884B2

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DOCDB simple family (application)
US 0314883 W 20030509; AT 03736588 T 20030509; AU 2003237827 A 20030509; DE 60325042 T 20030509; DK 03736588 T 20030509; EP 03736588 A 20030509; ES 03736588 T 20030509; JP 2004504577 A 20030509; PT 03736588 T 20030509