

Title (en)
LED DIMMING CONTROLLER

Title (de)
LED DIMMERSTEUERUNG

Title (fr)
GRADATEUR POUR DEL

Publication
EP 1502483 A1 20050202 (EN)

Application
EP 03736588 A 20030509

Priority
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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.

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H05B 41/00

IPC 8 full level
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Citation (third parties)
Third party :
• US 5661645 A 19970826 - HOCHSTEIN PETER A [US]
• WO 0145470 A1 20010621 - TAKION CO LTD [JP], et al
• US 6577072 B2 20030610 - SAITO YUTAKA [JP], et al
• JP H06242733 A 19940902 - HAKUYO DENKYU KK, et al
• EP 0876085 A2 19981104 - INCERTI & SIMONINI DI INCERTI [IT]
• AGILENT TECHNOLOGIES: "AGILENT AN 1273. REGULATORY STANDARDS FOR COMPLIANCE TESTING TO THE IEC 1000-3-2(EN 61000-3-2) AND IEC 1000-3-3 (EN 61000-3-3)", 2000, pages 1-20,55 - 56, XP055180349, Retrieved from the Internet <URL:TTP://LITERATURE.CDN.KEYSIGHT.COM/LITWEB/PDF/5964-1917E.PDF>

Cited by
CN101808453A; US9775212B2; US11297705B2; US10342086B2; US10973094B2; US10206378B2; US10506801B2; US8643308B2; US9615432B2; US10091857B2; US10485072B2; US9695995B2; US11284491B2; 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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