

Title (en)

DIMMABLE OPERATING DEVICE WITH INTERNAL DIMMING CALIBRATION CURVE

Title (de)

DIMMBARES BETRIEBSGERÄT MIT INTERNER DIMMKENNLINIE

Title (fr)

APPAREIL DE COMMANDE À GRADATION DE LUMIÈRE PRÉSENTANT UNE CARACTÉRISTIQUE DE GRADATION INTERNE

Publication

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Application

**EP 07764640 A 20070613**

Priority

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- EP 2007005216 W 20070613

Abstract (en)

[origin: WO2007147512A1] The invention relates to an operating device (BG) for lamps (LM), comprising an interface (IFi), by means of which the device (BG) may be provided with external dimming values. The device (BG) converts said provided external dimming values into internal dimming values on the basis of which the control of the connected lamps (LM) is achieved, the internal dimming values being of higher resolution than the external dimming values. According to the invention, the operating device (BG) is designed such that the conversion of the external dimming values into internal dimming values may be programmed. The operating device (BG) can particularly also be designed such that said conversion can be programmed with regard to the dynamics thereof. A programming can be provided by a time conversion relationship (linear, logarithmic or exponential time curve etc. ) by means of which an internal dimming value corresponding to an external dimming value is reached.

IPC 8 full level

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CPC (source: EP US)

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Citation (opposition)

Opponent : BAG electronics GmbH

- DE 10112114 A1 20021002 - VOSSLOH SCHWABE ELEKTRONIK [DE]
- EP 1135005 A2 20010919 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE]
- US 2005179404 A1 20050818 - VESKOVIC DRAGAN [US], et al
- US 2005116667 A1 20050602 - MUELLER GEORGE G [US], et al
- DE 20312298 U1 20031106 - BAG ELECTRONICS GMBH [DE]
- EP 1422975 A1 20040526 - COLOR KINETICS INC [US]
- WO 02079890 A1 20021010 - INT RECTIFIER CORP [US]
- DE 102005008996 A1 20060727 - TRIDONICATCO GMBH & CO KG [AT]
- DE 102004061294 A1 20060622 - TRIDONICATCO GMBH & CO KG [AT]
- US 6573666 B1 20030603 - KILLAT DIRK [DE]
- US 6181086 B1 20010130 - KATYL ROBERT H [US], et al
- EP 0807877 A1 19971119 - ZUMTOBEL LICHT [AT]
- DE 20220356 U1 20030605 - INSTA ELEKTRO GMBH [DE]
- US 7014336 B1 20060321 - DUCHARME ALFRED D [US], et al
- US 2004135522 A1 20040715 - BERMAN GEORGE [US], et al
- US 2006091827 A1 20060504 - CHEVALIER DANIEL [CA], et al
- CONTENTI C: "Digitally addressable DALI dimming ballast", APEC 2002. 17TH ANNUAL IEEE APPLIED POWER ELECTRONICS CONFERENCE AND EX- POSITION. DALLAS, TX, MARCH 10 - 14, 2002, ANNUAL APPLIED POW- ER ELECTRONICS CONFERENCE, vol. 2, 10 March 2002 (2002-03-10), NEW YORK, NY, pages 936 - 942, XP010583030, ISBN: 0-7803-7404-5
- ROSS FOSLER ET AL.: "AN809: Digitally Ad- dressable DALI Dimming Ballast", MICROCHIP, vol. DS00809B, 2002, pages 1 - 18, XP055335978

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