(51) International Patent Classification:
H05B 37/02 (2006.01)  H05B 41/392 (2006.01)
H05B 39/04 (2006.01)  G05D 25/02 (2006.01)

(21) International Application Number:
PCT/IB2007/055146

(22) International Filing Date:
17 December 2007 (17.12.2007)

(25) Filing Language:
English

(26) Publication Language:
English

(30) Priority Data:
06127070.8  22 December 2006 (22.12.2006)  EP

(71) Applicant (for all designated States except US): KONINKLIJKE PHILIPS ELECTRONICS N.V. ([NL/NL]); Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventor;

(75) Inventor/Applicant (for US only): AENDEKERK, Everard, M., J. [BE/NL]; c/o High Tech Campus 44, NL-5656 AE Eindhoven (NL).


(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:
— as to applicant’s entitlement to apply for and be granted a patent (Rule 4.17(U))

Published:
— with international search report

[Continued on next page]

(54) Title: DEVICE FOR CONTROLLING LIGHT SOURCES

(57) Abstract: An illumination system (1) comprises: at least one light source (2); a control system (3) for controlling the light sources, the control system comprising a sensor system (4) with at least one light sensor (5) for sensing ambient light (L1) and for generating a sensor output signal (M) representing the sensed light level, wherein the control system is designed for controlling the light sources in relation to the sensor output signal. The control system automatically calibrates the sensor system. The control system measures the ambient illumination level (M_AM) at a moment of calibration and stores this measured ambient illumination level into a memory (7). The control system, preferably with the light sources in an OFF condition, monitors the ambient illumination level and compares this with the stored value, and automatically performs a calibration procedure when the ambient illumination level reaches a new minimum value lower than the stored value.
before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report: 21 August 2008
# INTERNATIONAL SEARCH REPORT

## A. CLASSIFICATION OF SUBJECT MATTER

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<th>Category</th>
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## B. FIELDS SEARCHED

- Minimum documentation searched (classification system followed by classification symbols):
  - H05B
  - G050

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched.

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

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<td>US 2006/278808 A1 (HICK ROBERT L [US] et al.) 14 December 2006 (2006-12-14) page 1, paragraph 1 - page 3, paragraph 30; figures 1, 2</td>
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<td>EP 0 563 696 A (KNOBEL LICHTTECH [CH]) 6 October 1993 (1993-10-06) column 1, line 1 - column 8, line 32; figures 1-4</td>
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## D. Further documents are listed in the continuation of Box C

- Special categories of cited documents:
  - "A" document defining the general state of the art which is not considered to be of particular relevance
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  - "C" document used only to establish the pertinent date of a later document

- See patent family annex

Date of the actual completion of the international search: 23 June 2008

Date of mailing of the international search report: 30/06/2008

Name and mailing address of the ISA/European Patent Office

Burchelli, M

NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040
Fax (+31-70) 340-3016
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<td>US 2006278808 A1</td>
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<td>CH 683383 A5</td>
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<td>DE 59309264 D1</td>
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