

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
22 January 2009 (22.01.2009)

PCT

(10) International Publication Number
WO 2009/010926 A3

(51) International Patent Classification:
H05B 37/02 (2006.01)

(21) International Application Number:
PCT/IB2008/052848

(22) International Filing Date: 16 July 2008 (16.07.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
07112664.3 18 July 2007 (18.07.2007) EP

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

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DAMINK, Paulus, H., A.** [NL/NL]; c/o High Tech Campus Building 44, NL-5656 AE Eindhoven (NL). **COLAK, Sel, B.** [US/NL]; c/o High Tech Campus Building 44, NL-5656 AE Eindhoven (NL). **FERI, Lorenzo** [IT/NL]; c/o High Tech Campus Building 44, NL-5656 AE Eindhoven (NL). **PENNING DE VRIES, Hendricus, T., G., M.** [NL/NL]; c/o High Tech Campus Building 44, NL-5656 AE Eindhoven (NL).

(74) Agents: **BEKKERS, Joost, J., J.** et al.; c/o High Tech Campus Building 44, NL-5656 AE Eindhoven (NL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

[Continued on next page]

(54) Title: A METHOD FOR PROCESSING LIGHT IN A STRUCTURE AND A LIGHTING SYSTEM

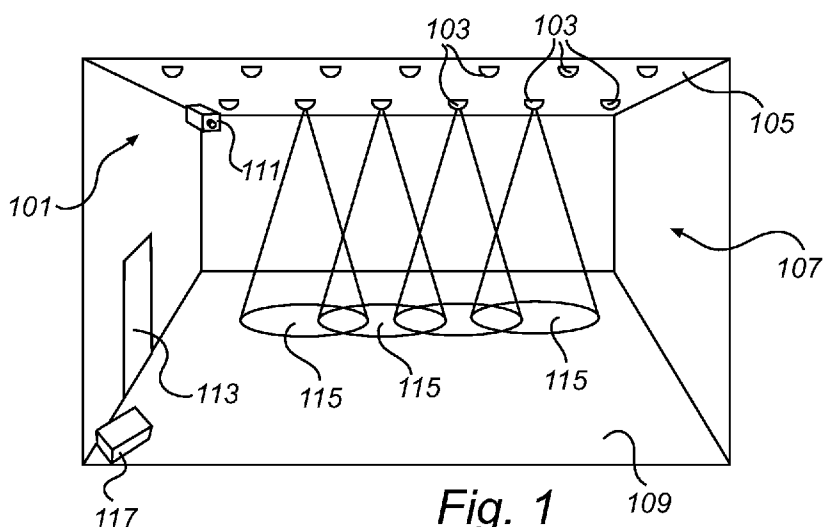


Fig. 1

(57) Abstract: This invention relates to a method for processing light in a structure, such as a room or a part thereof, a vehicle, etc., where several light sources are arranged in the structure. The light sources emit light carrying individual codes. A camera is arranged in a camera position of the structure and registers images of spots of the light. The spots can be, " for instance, illuminated areas of a floor or the direct light images of the light sources. The individual codes are derived from the registered images and one or more properties, such as for instance light source position or light intensity, related to the associated light source, is determined. The method is performed by means of a lighting system having several light sources, a camera, and a signal processing apparatus. Typical applications for the invention are light source commissioning and real time foot-print measurements.

WO 2009/010926 A3



Published:

- *with international search report*
- *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:

12 March 2009

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2008/052848

A. CLASSIFICATION OF SUBJECT MATTER
INV. H05B37/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
H05B

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

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 418 482 A (HOWELL WAYNE [GB]) 29 March 2006 (2006-03-29) the whole document -----	1-23
A	WO 02/13490 A (COLOR KINETICS INC [US]) 14 February 2002 (2002-02-14) page 4, lines 19-32 page 5, lines 1-13 figure 2 -----	
A	WO 2005/096677 A (KONINKL PHILIPS ELECTRONICS NV [NL]; BEIJ MARCEL [NL]; BUIJ ARNOLD W [] 13 October 2005 (2005-10-13) -----	

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

12 January 2009

Date of mailing of the international search report

21/01/2009

Name and mailing address of the ISA/
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Benedetti, Gabriele

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2008/052848

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 2418482	A	29-03-2006	NONE	
WO 0213490	A	14-02-2002	AU 8540801 A	18-02-2002
WO 2005096677	A	13-10-2005	AT 408976 T	15-10-2008
			CN 1943280 A	04-04-2007
			JP 2007531232 T	01-11-2007
			US 2008258646 A1	23-10-2008