

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
21 August 2008 (21.08.2008)

PCT

(10) International Publication Number
WO 2008/100277 A3

(51) International Patent Classification:

G02B 6/26 (2006.01) G02B 6/04 (2006.01)
G02B 6/36 (2006.01) G09G 3/32 (2006.01)
G02B 6/44 (2006.01) A61B 1/06 (2006.01)
G02B 6/00 (2006.01) HOIL 27/15 (2006.01)

(21) International Application Number:

PCT/US2007/016128

(22) International Filing Date: 16 July 2007 (16.07.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/901,837 12 February 2007 (12.02.2007) US
Not furnished 13 July 2007 (13.07.2007) US

(71) Applicant (for all designated States except US): **INTEMATIX CORPORATION** [US/US]; 46410 S. Fremont Blvd., Fremont, CA 94538 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **LI, Yi-Qun** [US/US]; 30 Trish Lane, Danville, CA 94506 (US).

(74) Agent: **FLIESLER, Martin, C**; FLIESLER MEYER LLP, 650 California Street, Fourteenth Floor, San Francisco, California 94108 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, 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, 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, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL,

[Continued on next page]

(54) Title: LIGHT EMITTING DIODE LIGHTING SYSTEM

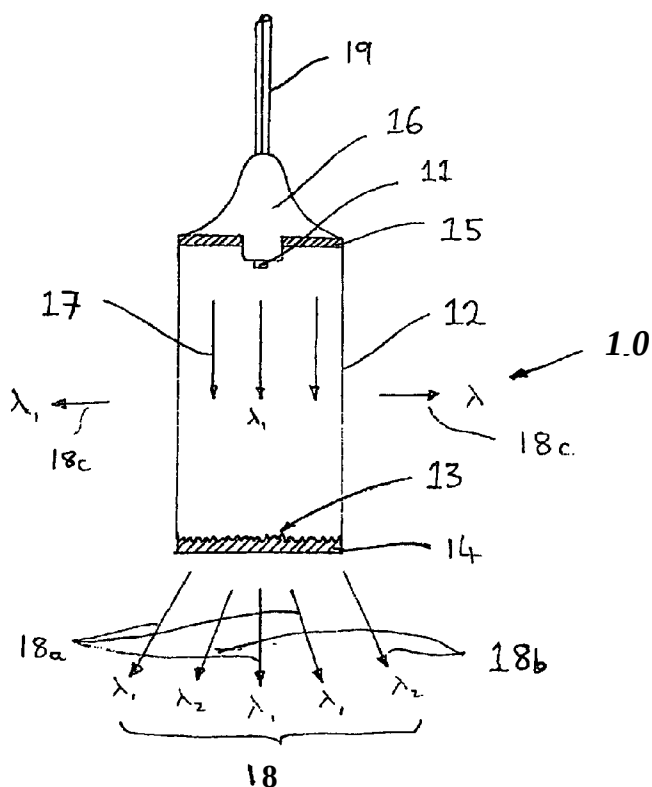


Figure 1

(57) Abstract: A lighting system (10) for generating an illumination product comprises an excitation source, blue/UV LED, (11) operable to generate excitation radiation (17) and a remotely located phosphor, photo luminescent material (14). Excitation radiation (17) is guided from the excitation source (11) to the phosphor (14) by a waveguiding medium (12), the waveguiding medium (12) being configured such that the distance the radiation travels from the excitation source (11) to the phosphor layer (14) is at least one centimeter in length. The UV/blue excitation source (11) provides excitation radiation (17) to the phosphor(s), causing the phosphor(s) to photo luminesce, and it may also provide a component (18a) of the final illumination product (18a, 18b, 18c). The configuration of the waveguide allows a greater flexibility in lighting system configurations, such as hanging lighting fixtures, desk lighting fixtures, floor standing lighting fixtures, desk lamps, track lighting, spot lighting, accent lighting, lighting panels, inspection lamps and endoscopes.



PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments*

Published:

— *with international search report*

(88) Date of publication of the international search report:

9 October 2008

INTERNATIONAL SEARCH REPORT

International application No

PCT/US07/16128

A CLASSIFICATION OF SUBJECT MATTER IPC G02B 6/26 (2006 01),6/36(2006 01), 6/44 (2006 01),6/00(2006 01),6/04(2006 01), 6/44 (2006 01),G09G 3/32(2006 01), A61B 1/06 (2006 01), H01L 27/15 (2006 01) USPC 385/1 5,79, 104,1 23,1 47,362/554,556,345/82,600/179,257/81 According to International Patent Classification (IPC) or to both national classification and IPC	
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B FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U S 385/15, 79, 104, 123, 147, 362/554, 556, 345/82, 600/179, 257/81 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 practicable, search terms used) Please See Continuation Sheet

C DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
P,X	US 7,277,618 B2 (YAMAZAKI et al) 02 October 2007 (02 10 2007), the entire document	1-18
X	US 6,921,920 B2 (KAZAKEVICH) 26 July 2005 (26 07 2005), the entire document	19
A	US 6,917,751 B2 (WANG et al) 12 July 2005 (12 07 2005), the entire document	1-25
A	US 6,636,686 B2 (BELFER) 21 October 2003 (21 10 2003), the entire document	1-25
A	US 2005/0219171 A1 (GIMBUTAS) 06 October 2005 (06 10 2005)	1-25
A	US 4,234,907 A (DANIEL) 18 November 1980 (18 11 1980), the entire document	1-25
A	JP 2006-37323 A (ISHIKAWA et al) 09 February 2006 (09 02 2006), see the abstract	1-25

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Date of the actual completion of the international search 19 June 2008 (19 06 2008)	Date of mailing of the International Search Report 28 JUL 2008
Name and mailing address of the ISA/US Mail Stop PCT, Attn ISA/US Commissioner for Patents P O Box 1450 Alexandria, Virginia 22313-1450 Facsimile No (571) 273-3201	Authorized officer QUYEN P LECING Telephone No (if 1) 272-28Q0

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US07/16128

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US07/16128

Continuation of B. FIELDS SEARCHED Item 3:
EAST
search terms. blue, uv, ultraviolet, phosphor, waveguide, fiber, fibre