



(51) International Patent Classification:

F21S 2/00 (2006.01) *F21V 23/00* (2006.01)
F21V 9/10 (2006.01) *H01L 33/48* (2010.01)
F21V 17/00 (2006.01) *H01L 33/50* (2010.01)
F21V 19/00 (2006.01) *F21Y 101/02* (2006.01)

(21) International Application Number:

PCT/CN2011/000756

(22) International Filing Date:

29 April 2011 (29.04.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

201010172360.1 4 May 2010 (04.05.2010) CN

(72) Inventor; and

(71) Applicant : **CAI, Zhou** [CN/CN]; Room 201, Block 43, No. 3 Rd., Baotian Industrial Area, Xixiang, Bao'an District, Shenzhen, Guangdong 518102 (CN).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ZOU, Jun** [CN/CN]; Room 201, Block 43, No. 3 Rd., Baotian Industrial Area, Xixiang, Bao'an District, Shenzhen, Guangdong 518102 (CN). **MAO, Xuehua** [CN/CN]; Room 201,

Block 43, No. 3 Rd., Baotian Industrial Area, Xixiang, Bao'an District, Shenzhen, Guangdong 518102 (CN).

(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, CL, 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, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: LED LIGHT SOURCE AND MANUFACTURING METHOD THEREOF

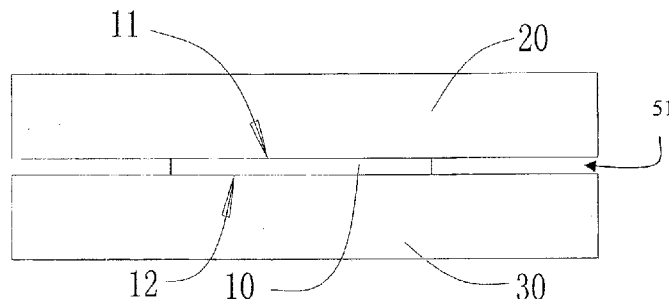


FIG. 1

(57) Abstract: An LED light source includes one or more LED light source arrangements (100), wherein each of the LED light source arrangements includes an LED member (10) having a first light emitting surface (11) and a second light emitting surface (12) opposite the first, and two fluorescent members (20, 30) located on top of the first and second light emitting surfaces of the LED member respectively. The two fluorescent members retain the LED member in position such that the illumination generated from the LED member is capable of passing through the two fluorescent members from the two light emitting surfaces respectively. The LED light source arrangement provides the illumination at an angle greater than 180° and directly effective heat dissipation at all sides of the LED member.

