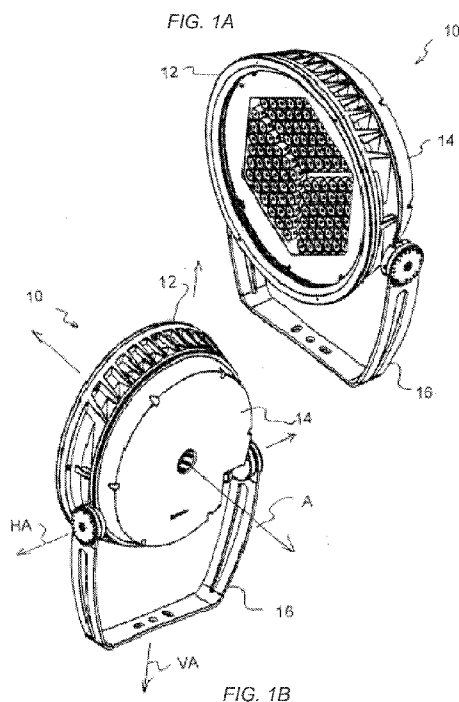




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- (81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, 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, QA, RO, RS, RU, RW, 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.
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[Continued on next page]

(54) **Title:** CONFIGURABLE LIGHT EMITTING DIODE LIGHTING UNIT



(57) **Abstract:** A light emitting diode (LED) lighting unit including power supply housing accommodating a power supply and an LED array housing defining an internal compartment and a lens sealing the internal compartment. A different respective LED array is mounted on at least one of a number of common printed circuit boards accommodated within the internal compartment. The different LED arrays provide different illumination, controlling one or more illumination features such as beamwidth, color and color temperature. Physical isolation is also provided between the LED array housing and the power supply housing to allow for controlled or otherwise restricted access to one or more of the different housings. In at least some embodiments, one or more of the LED array housing and power supply housing are configured with a centrally located chimney, drawing in cooling air from a space provided between the housings to facilitate cooling of the lighting unit.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/037426**A. CLASSIFICATION OF SUBJECT MATTER*****F21V 31/00(2006.01)i, F21V 23/00(2006.01)i***

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)

F21V 31/00; F21V 29/00; H05B 37/02; F21V 13/04; F21V 9/00; F21Y 101/02; F21K 99/00

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: LED, beam, color, color temperature, optics, and illumination

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2005-0265024 A1 (JOHN LUK) 01 December 2005 See the abstract; paragraphs [0062] - [0114]; claims 1, 20; and figures 1-2, 17-18	1-22
A	US 2010-0188018 A1 (SALM MARKUS) 29 July 2010 See the abstract; paragraphs [0024] - [0082]; claims 1, 14-15; and figures 1-3, 4F	1-22
A	WO 2009-081382 A1 (PHILIPS SOLID-STATE LIGHTING SOLUTIONS INC. et al.) 02 July 2009 See the abstract; paragraphs [0036] - [0081]; claims 1, 4; and figures 1-3	1-22
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Further documents are listed in the continuation of Box C.



See patent family annex.

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"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

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"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

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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