

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
18 January 2007 (18.01.2007)

PCT

(10) International Publication Number
WO 2007/008724 A3

(51) International Patent Classification:
F21V 7/04 (2006.01)

[US/US]; 19 South Yale, Arlington Heights, IL 60005 (US).

(21) International Application Number:
PCT/US2006/026621

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(22) International Filing Date: 8 July 2006 (08.07.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/697,781 8 July 2005 (08.07.2005) US
11/482,412 7 July 2006 (07.07.2006) US

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

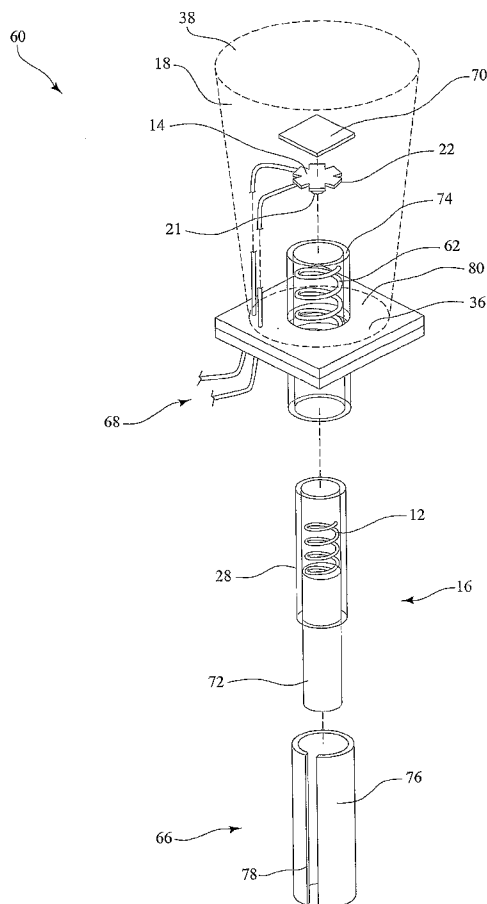
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(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: LED LIGHTING SYSTEM WITH HELICAL FIBER FILAMENT



(57) Abstract: A lighting system includes a helical light-transmitting fiber and an LED. The helical light-transmitting fiber is doped with a first wavelength converting material and defines a helical axis. The LED has a light-emitting portion for emitting light of a first color. The LED is aligned axially with the first helical fiber such that a portion of any light emitted by the LED will pass through the open space between the turns of the first helical fiber and a portion of any light emitted by the LED will be received by the first helical fiber and converted to light of a second color. Adjustment of the compression of the helical fiber will adjust the mixture of colors in the light emitted by the system. Further, the relatively small cross-sectional area of the fiber serves to lessen any dye migration in the fiber.



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, 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(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

- *with international search report*

(88) Date of publication of the international search report:
29 November 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.