(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
3 May 2007 (03.05.2007)

PCT

(10) International Publication Number
WO 2007/048503 A3

(51) **International Patent Classification:**
G02B 6/00 **(2006.01)** *F21L 4/00* **(2006.01)**

(21) **International Application Number:**
PCT/EP2006/009820

(22) International Filing Date: 11 October 2006 (11.10.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/259,679 26 October 2005 (26.10.2005) 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, 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, 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).

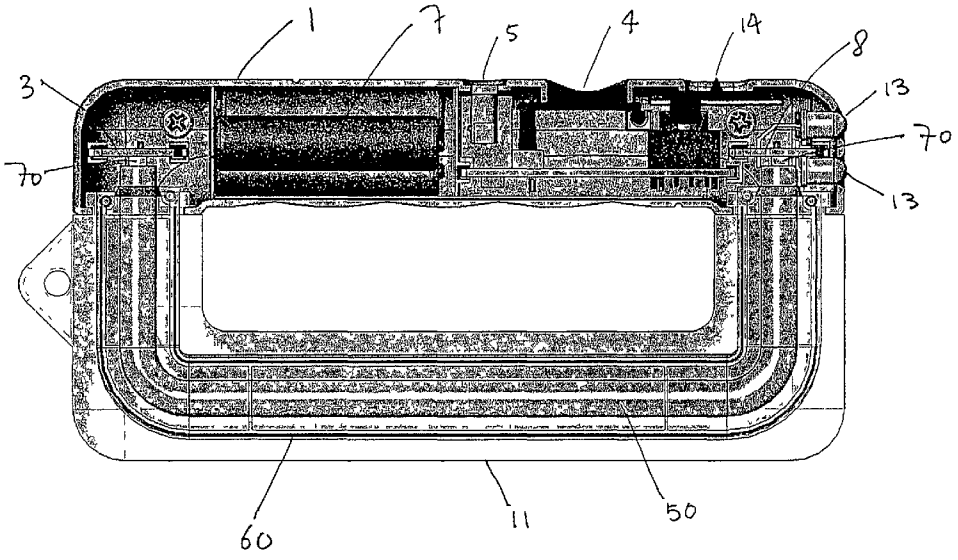
Published:
— *with international search report*
— *with amended claims*

(88) Date of publication of the international search report:
26 July **2007**

Date of publication of the amended claims: 11 October 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.

(54) Title: GLOW STICK



(57) Abstract: The present invention provides a fiber optics illuminated glow stick apparatus comprising at least one multicolored LED (70), an optics cable (50) in proximity to the multicolored LED that illuminates when the LED is illuminated, a control circuit (3,8) for controlling the multicolored LED to be illuminated, and a protective cover (60) being mounted to a stick housing and encasing at least a part of the optics cable therein. The present invention also provides a fiber optics illuminated glow stick apparatus comprising a light source, an optics cable in proximity to the light source that illuminates when the light source is illuminated, a control circuit for controlling the light source to be illuminated, and a protective cover that encases the optics cable. The fiber optics illuminated glow stick can glow in a variety of different colors and is reusable and rechargeable. The fiber optics illuminated glow stick may additionally include an LED flashlight (13) .

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AMENDED CLAIMS
received by the International Bureau on 30 JULY 2007 (30.07.2007)

1. A fiber optics illuminated glow stick apparatus comprising: at least one multicolored LED; an optics cable in proximity to the multicolored LED that illuminates when the LED is illuminated; a control circuit for controlling the multicolored LED to be illuminated; a handle; and a protective cover being mounted to the handle and encasing at least a part of the optics cable therein; and a hole and a peg for interlocking with another fiber optics illuminated glow stick.

2. The fiber optics illuminated glow stick apparatus according to Claim 1, wherein at least one multicolored LED comprises two multicolored LEDs with one of the two multicolored LEDs placed at each end of the optics cable.

3. The fiber optics illuminated glow stick apparatus according to Claim 1, wherein the control circuit controls the multicolored LED to illuminate the optics cable to produce a smooth transition across a range of colors.

4. The fiber optics illuminated glow stick apparatus according to Claim 1, wherein the control circuit controls the multicolored LED to continuously illuminate the optics cable in any one of a plurality of colors.

5. The fiber optics illuminated glow stick apparatus according to Claim 1, wherein the control circuit controls the multicolored LED to strobe the optics cable in any one of a plurality of colors.

6. The fiber optics illuminated glow stick apparatus according to Claim 1, wherein the control circuit controls the multicolored LED to strobe the optical cable while switching between a plurality of colors.

7. The fiber optics illuminated glow stick apparatus according to Claim 1 , wherein the control circuitry is encased in the stick housing.

8. The fiber optics illuminated glow stick apparatus according to Claim 1, further comprising a soft cushion that encases the optics cable, wherein the soft cushion being at least partially transparent.

9. The fiber optics illuminated glow stick apparatus according to Claim 1 , wherein the stick housing houses at least one multicolored LED and the control circuit.

10. The fiber optics illuminated glow stick apparatus according to Claim 9 , wherein the handle is soft.

11. The fiber optics illuminated glow stick apparatus according to Claim 1, additionally comprising a tab attached to the fiber optics illuminated glow stick apparatus with a hole in the tab for hanging the apparatus from a string.

12. The fiber optics illuminated glow stick apparatus according to Claim 1 , additionally comprising an LED flashlight.

13. A fiber optics illuminated glow stick apparatus comprising: a light source; an optics cable in proximity to the light source that illuminates when the light source is illuminated; a control circuit for controlling the light source to be illuminated; a protective cover that encases the optics cable; a handle; and a hole and a peg for interlocking with another fiber optics illuminated glow stick.

14. A fiber optics illuminated glow stick apparatus comprising: a handle; a light source located inside the handle; an optics cable being mounted to the handle, wherein the optics cable having at least one of its ends positioned in proximity to the light source, so that the optics cable illuminates when the light source is illuminated; and a protective cover being mounted to the handle and encasing at least a part of the optics cable therein; and a hole and a peg for interlocking with another fiber optics illuminated glow stick.

15. The fiber optics illuminated glow stick apparatus according to Claim 14, further comprising a control circuit for varying the light source.

16. The fiber optics illuminated glow stick apparatus according to Claim 14, wherein the optics cable comprises a solid optical gel core.

17. The fiber optics illuminated glow stick apparatus according to Claim 14, wherein the optics cable comprises multiple strands of fiber optics.

18. The fiber optics illuminated glow stick apparatus according to Claim 14, wherein the optics cable has its ends ultrasonically welded inside the handle.