



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification ⁶ : F21K 2/00, 2/06, F41C 3/00, F21P 1/02, B05B 17/08, A23L 1/03, 2/00, A23G 1/00, 9/02, A23K 1/18, D06Q 1/00, A63H 27/10, A61K 7/00, 7/16, 9/127, C09D 11/00, 17/00, A45C 1/00, F42B 4/00, C12N 9/02, 11/02, F42B 3/00, B65D 83/00, A01K 67/027, C05G 3/00, C12N 15/52, B65D 81/32, F41B 9/00, B05B 11/00</p>	A3	<p>(11) International Publication Number: WO 97/29319</p> <p>(43) International Publication Date: 14 August 1997 (14.08.97)</p>					
<p>(21) International Application Number: PCT/US97/01699</p> <p>(22) International Filing Date: 3 February 1997 (03.02.97)</p> <p>(30) Priority Data:</p> <table border="0"> <tr> <td>597,274</td> <td>6 February 1996 (06.02.96)</td> <td>US</td> </tr> <tr> <td>757,046</td> <td>25 November 1996 (25.11.96)</td> <td>US</td> </tr> </table> <p>(71)(72) Applicant and Inventor: BRYAN, Bruce, J. [US/US]; 716 Arden Drive, Beverly Hills, CA 90210 (US).</p> <p>(74) Agent: SEIDMAN, Stephanie, L.; Brown Martin Haller & McClain, 1660 Union Street, San Diego, CA 92101-2926 (US).</p>	597,274	6 February 1996 (06.02.96)	US	757,046	25 November 1996 (25.11.96)	US	<p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).</p> <p>Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p> <p>(88) Date of publication of the international search report: 11 December 1997 (11.12.97)</p>
597,274	6 February 1996 (06.02.96)	US					
757,046	25 November 1996 (25.11.96)	US					
<p>(54) Title: BIOLUMINESCENT NOVELTY ITEMS</p> <p>(57) Abstract</p> <p>Systems and apparatus for generating bioluminescence, and combinations of these systems and apparatus with inanimate articles of manufacture to produce novelty items are provided. These novelty items, which are articles of manufacture, are designed for entertainment, recreation and amusement, and include toys, paints, slimy play material, textiles, particularly clothing, bubbles in bubble making toys and other toys that produce bubbles, balloons, personal items, such as bath powders, body lotions, gels, powders and creams, toothpastes and other dentifrices, soaps, body paints, and bubble bath, foods, such as gelatins, icings and frostings, beverages such as beer, wine, champagne, soft drinks, and glowing ice, fountains, including liquid "fireworks" and other such jets or sprays or aerosols of compositions that are solutions, mixtures, suspensions, powders, pastes, particles or other suitable formulation. Cartridges for charging and/or recharging the novelty items with bioluminescence generating systems are also provided.</p>							

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 97/01699

A. CLASSIFICATION OF SUBJECT MATTER IPC 6 F21K2/00 F21K2/06 F41C3/00 F21P1/02 B05B17/08 A23L1/03 A23L2/00 A23G1/00 A23G9/02 A23K1/18 D06Q1/00 A63H27/10 A61K7/00 A61K7/16 A61K9/127					
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) IPC 6 F21K C12N B65D F41B B05B					
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 practical, search terms used)					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with indication, where appropriate, of the relevant passages				Relevant to claim No.
X	WO 94 04918 A (SLATER & AL) 3 March 1994				1-3,5,8, 73,77
A	see the whole document				50,51, 54,69,87

X	US 5 383 100 A (J.P.KIKOS) 17 January 1995				1,2,5, 54,55,77
A	see the whole document				5,6,9

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<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.					
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Date of the actual completion of the international search			Date of mailing of the international search report		
7 October 1997			27. 10. 97		
Name and mailing address of the ISA			Authorized officer		
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INTERNATIONAL SEARCH REPORT

International Application No

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A. CLASSIFICATION OF SUBJECT MATTER					
IPC 6	C09D11/00	C09D17/00	A45C1/00	F42B4/00	C12N9/02
	C12N11/02	F42B3/00	B65D83/00	A01K67/027	C05G3/00
	C12N15/52	B65D81/32	F41B9/00	B05B11/00	

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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 practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category ^o	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE WPI Section Ch, Week 9546 Derwent Publications Ltd., London, GB; Class B04, AN 95-354274 XP002042687 & JP 07 241 192 A (HARATA K) , 19 September 1995 see abstract ---	12-16, 18
X	GB 1 105 927 A (MILES) 13 March 1968 see page 3, line 85-91 see page 4, line 72-81 see claims 1-14; example 9 ---	20-23
X	DE 39 35 974 A (MÜLLER-KLIESER) 2 May 1991 see the whole document ---	20-22
	-/--	

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Date of the actual completion of the international search

7 October 1997

Date of mailing of the international search report

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2

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 97/01699

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE INSPEC INSTITUTE OF ELECTRICAL ENGINEERS, STEVENAGE, GB Inspec No. 3715919, GAUTIER S M ET AL: "Alternate determination of ATP and NADH with a single bioluminescence-based fiber-optic sensor" XP002042686 see abstract & 5TH INTERNATIONAL CONFERENCE ON SOLID-STATE SENSORS AND ACTUATORS AND EUROSENSORS III, MONTREUX, SWITZERLAND, 25-30 JUNE 1989, vol. B1, no. 1-6, ISSN 0925-4005, SENSORS AND ACTUATORS B (CHEMICAL), JAN. 1990, SWITZERLAND, pages 580-584,</p>	20-22
A	<p>--- EP 0 302 819 A (HILTI) 8 February 1989 see the whole document</p>	26,31,34
A	<p>--- FR 2 674 223 A (DOW CORNING) 25 September 1992 see the whole document</p>	26, 29-31,34
A	<p>--- US 5 405 056 A (G.B.MILLS) 11 April 1995 see the whole document</p>	26,30,31
A	<p>--- DATABASE WPI Section Ch, Week 9501 Derwent Publications Ltd., London, GB; Class B04, AN 95-006227 XP002042688 & WO 94 26100 A (CNRS CENT NAT RECH SCI) , 24 November 1994 see abstract</p>	39
A	<p>--- US 4 534 317 A (M.A.WALSH) 13 August 1985 see the whole document</p>	44,86
A	<p>--- US 5 405 905 A (L.DARR) 11 April 1995 see the whole document</p>	44
X	<p>--- US 3 511 612 A (G.W.KENNERLY & AL) 12 May 1970 see the whole document</p>	45-49, 53,58, 59,68,82
2 X	<p>--- WO 92 04577 A (COLLET) 19 March 1992 see the whole document</p>	45,46, 53,58, 59,68
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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 97/01699

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 563 726 A (N.F.NEWCOMB & AL) 7 January 1986 see the whole document ---	45,46
A	EP 0 246 174 A (EXTRAITS NOIROT) 19 November 1987 see the whole document ---	6,8,50, 87-89, 92,95
A	US 4 765 510 A (V.N.RENDE) 23 August 1988 see the whole document -----	42, 98-102

2

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 97/01699

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

See further information

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

international Application No. PCT/US 97 01699

FURTHER INFORMATION CONTINUED FROM PCT/ISA210

1. Claims : 1-11, 24, 25, 40,43, 50,52, 54-47, 69-77, 80, 81, 87-102
2. Claims : 12-19
3. Claims : 20-23
4. Claims : 26-38
5. Claim : 39
6. Claim : 44
7. Claims : 45-46(partially), 53
8. Claims : 45-46(partially), 58, 59
9. Claims : 45-46(partially)68
- 10.Claims : 45-46(partially), 82, 83
- 11.Claims : 47-49, 60-64
- 12.Claims : 78, 79
- 13.Claims : 86

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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International Application No

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