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

## (19) World Intellectual Property Organization

International Bureau





26 October 2006 (26.10.2006)

(43) International Publication Date

(51) International Patent Classification: B65D 41/26 (2006.01)

(21) International Application Number:

PCT/US2006/014951

- (22) International Filing Date: 20 April 2006 (20.04.2006)
- (25) Filing Language: English
- (26) Publication Language: **English**
- (30) Priority Data:

60/673,681

20 April 2005 (20.04.2005)

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## (10) International Publication Number WO 2006/113893 A3

- (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, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, 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, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, 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

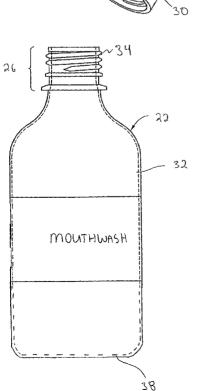
[Continued on next page]

### (54) Title: BOTTLE FOR DENTAL HYGIENE PRODUCT WITH TIMING MECHANISM



(57) Abstract: A packaging system includes a bottle that holds a dental hygiene product. A closure is configured to be removably coupled to the bottle. The bottle defines an opening when the closure is removed from the bottle. The timing mechanism is coupled to at least one of the bottle and closure. The timing mechanism includes a sensory device and a timer. The timing mechanism measures a time period and provides an output after a preset period of time has elapsed.





# WO 2006/113893 A3



before the expiration of the time limit for amending the claims and to be republished in the event of receipt of 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.

(88) Date of publication of the international search report:

20 September 2007

# INTERNATIONAL SEARCH REPORT

International application No. PCT/US06/14951

		<u> </u>	
A. CLASSIFICATION OF SUBJECT MATTER  IPC(8) - B65D41/26 (2007.01)  USPC - 215/228; 222/541.8  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(8) - B65D41/26 (2007.01) USPC - 215/228; 222/541.8			
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 practicable, search terms used) USPTO EAST System (US, USPG-PUB, EPO, DERWENT), MicroPatent			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
Υ	US 5,118,355 A (BROWING) 02 June 1992 (02.06.1992) entire document		1-15, 19
Υ	US 6,084,504 A (ROSCHE et al) 04 July 2000 (04.07.2000) entire document		1-15, 17-18, 20
Υ	US 6,037,872 A (DUNNUM) 14 March 2000 (14.03.2000) entire document		2
Y	US 4,974,423 A to (PRING) 04 December 1990 (04.12.1990) entire document		10, 12
Υ	US 6,299,770 B1 (DIENER et al) 09 October 2001 (09.10.2001) entire document		11-12
Y	US 2,108,692 A (PIECK) 09 May 1938 (08.05.1938) entire document		16-19
Y	US 5,135,485 A (COHEN et al) 04 August 1992 (04.08.1992) entire document		16-19
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Date of the actual completion of the international search  Date of mailing of the international search report			ch report
14 June 2007		<b>27</b> JUL 2007,	
j	nailing address of the ISA/US	Authorized officer: Blaine R. Copenheaver	
P.O. Box 148	CT, Attn: ISA/US, Commissioner for Patents 50, Alexandria, Virginia 22313-1450	PCT Helpdesk: 571-272-4300	
Facsimile No. 571-273-3201 PCT OSP: 571-272-7774			