



(51) International Patent Classification:

A61J 7/04 (2006.01) G08B 21/02 (2006.01)
A61J 1/14 (2006.01) B65D 51/24 (2006.01)

(21) International Application Number:

PCT/US2012/027203

(22) International Filing Date:

1 March 2012 (01.03.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

13/038,331 1 March 2011 (01.03.2011) US
13/244,296 24 September 2011 (24.09.2011) US

(71) Applicant (for all designated States except US): **TIMER
CAP COMPANY, LLC** [US/US]; P.O. Box 3003, Thou-
sand Oaks, CA 91359-3003 (US).

(74) Agent: **HANKIN, Marc E.**; Hankin Patent Law, APC,
11414 Thurston Circle, Los Angeles, CA 90049 (US).

(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.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: CONTAINER CAP WITH A TIMER

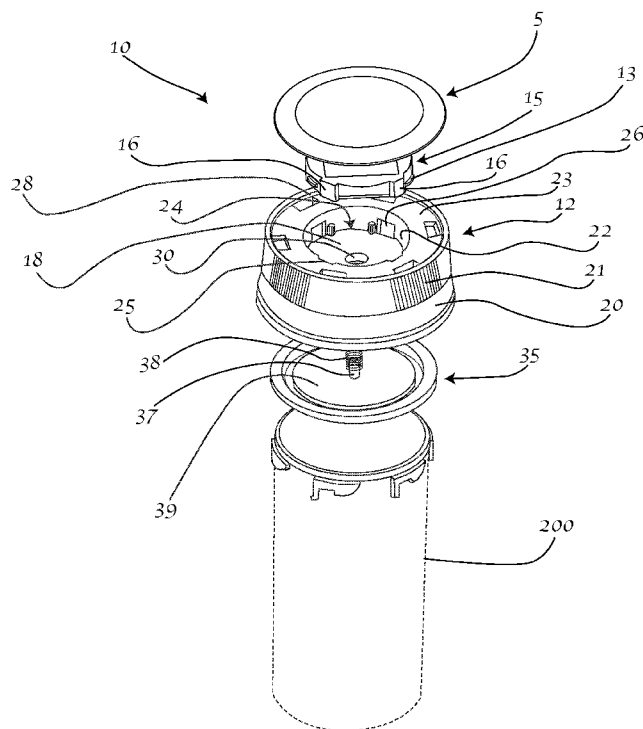


FIG. 1

(57) Abstract: The invention is a container cap with a timer. The timer has a centralized activation pin or mechanism that activates the timer when the cap is secured to a container. The timer is used to determine how much time has passed since the cap was secured to the container. The timer cap of the present invention is streamlined, easier to use, more reliable, and has a lower manufacturing cost than currently available timer caps.

**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))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

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

29 November 2012

Published:

- *with international search report (Art. 21(3))*

A. CLASSIFICATION OF SUBJECT MATTER*A61J 7/04(2006.01)i, A61J 1/14(2006.01)i, G08B 21/02(2006.01)i, B65D 51/24(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)

A61J 7/04; G04C 3/00; B65D 51/00; G04B 47/00; B65B 59/00; G08B 1/00

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: container cap, timer, post, activation switch, slot.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 7,408,843 B2 (BRANDON, DENNIS) 05 August 2008 See col. 1, lines 62-63; col. 3, lines 22-23 and 45-61; col. 4, lines 6-15; col. 5, line 44- col. 6, line 41;	1-4, 23-28, 30
Y	claims 1, 5-6, and 8-11; and figures 1, 6, and 13-18.	5, 29
A		6-22
Y	US 6,667,936 B1 (DITZIG, ALBERT F.) 23 December 2003 See col. 3, lines 27-30 and 48-65; col. 4, line 46 - col. 5, line 4; claims 1, 3, 8, and 13; and figures 1-5.	5, 29
A	US 2005-0121407 A1 (HILDEBRANDT, WILLIAM K.) 09 June 2005 See paragraphs [0026]-[0028]; claims 1 and 6-7; and figures 1, 3, and 5-6.	1-30
A	US 2005-0151625 A1 (LAI, JOSEPH) 14 July 2005 See paragraphs [0023], [0030]-[0037], [0044]-[0045], and [0051]-[0052]; claims 1, 6, and 11; and figures 1-5.	1-30



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"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

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"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

28 SEPTEMBER 2012 (28.09.2012)

Date of mailing of the international search report

28 SEPTEMBER 2012 (28.09.2012)

Name and mailing address of the ISA/KR

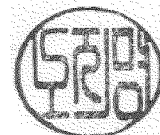
Korean Intellectual Property Office
189 Cheongsa-ro, Seo-gu, Daejeon Metropolitan
City, 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

NHO, Ji Myong

Telephone No. 82-42-481-8528



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2012/027203

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 7,408,843 B2	05.08.2008	US 2007-0014191 A1 US 2009-0078670 A1 US 2011-0069587 A1 US 7796472 B2 WO 2007-011656 A2 WO 2007-011656 A3	18.01.2007 26.03.2009 24.03.2011 14.09.2010 25.01.2007 06.12.2007
US 6,667,936 B1	23.12.2003	CN 1498829 A CN 1498829 C0	26.05.2004 26.05.2004
US 2005-0121407 A1	09.06.2005	US 2003-0198134 A1 US 6845064 B2 US 7362660 B2	23.10.2003 18.01.2005 22.04.2008
US 2005-0151625 A1	14.07.2005	US 7081807 B2	25.07.2006