



(51) International Patent Classification:  
*A61J 9/08* (2006.01) *A61J 11/00* (2006.01)

(21) International Application Number:  
PCT/US2010/037515

(22) International Filing Date:  
4 June 2010 (04.06.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
12/478,698 4 June 2009 (04.06.2009) US

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(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, RO, RS, RU, 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, 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, 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: CAP FOR SEALING NIPPLE

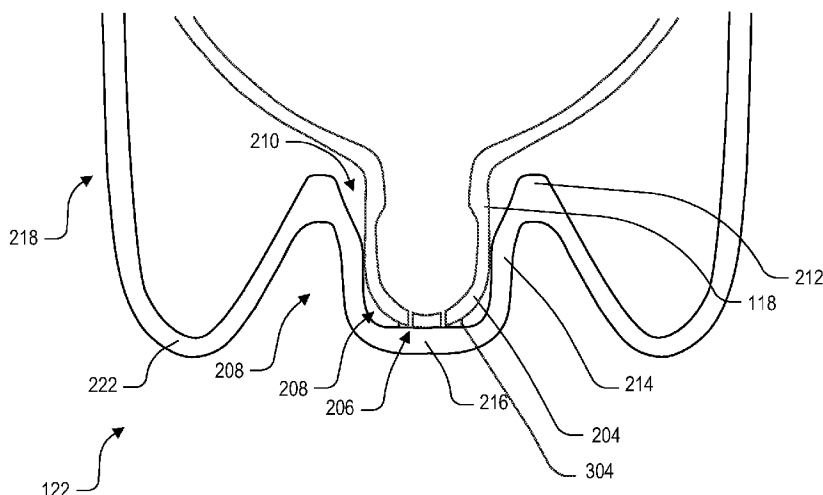


FIG. 3

(57) Abstract: A cap includes a cavity for receiving the rounded tip of a nipple. The cavity narrows from an open end to a neck, and widens from the neck to a closed end. The neck forms an interference fit with the rounded tip, and the interference fit forms a sealed compartment in the cap that encloses an aperture in the rounded tip.



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

21 April 2011

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

## INTERNATIONAL SEARCH REPORT

International application No.  
**PCT/US2010/037515****A. CLASSIFICATION OF SUBJECT MATTER***A61J 9/08(2006.01)i, A61J 11/00(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 9/08; A61J 9/00; B65D 1/04; A61J 11/02; A21D 10/02; A61J 9/04

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) &amp; Keywords: feeding, bottle, cap

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                            | Relevant to claim No. |
|-----------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Y         | US 6171623 B1 (GAYLOR IAN MICHAEL DAINES et al.) 09 January 2001<br>See column 4, line 18 - column 4, line 24; figures 18-19. | 1-10                  |
| Y         | US 2007-0012643 A1 (ROBIN MCKIDDY) 18 January 2007<br>See paragraph 55 - paragraph 56; figures 3-5.                           | 1-10                  |
| A         | WO 97-09956 A1 (CALLISEN, FRED et al.) 20 March 1997<br>See abstract and figures 8-11.                                        | 1-10                  |
| A         | US 4015740 A1 (HURST; ERIC KENNETH) 05 April 1977<br>See abstract and figures 1-2.                                            | 1-10                  |
| A         | US 2004-0256345 A1 (LUNDQUIST JON TYLER) 23 December 2004<br>See abstract and figure 4.                                       | 1-10                  |



Further documents are listed in the continuation of Box C.



See patent family annex.

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"&amp;" document member of the same patent family

Date of the actual completion of the international search

18 FEBRUARY 2011 (18.02.2011)

Date of mailing of the international search report

**21 FEBRUARY 2011 (21.02.2011)**

Name and mailing address of the ISA/KR

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Government Complex-Daejeon, 139 Seonsa-ro, Seo-  
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Facsimile No. 82-42-472-7140

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/US2010/037515**

| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s)                                                                                                                           | Publication<br>date                                                                                                        |
|-------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| US 6171623 B1                             | 09.01.2001          | AT 185262 T<br>AU 4839296 A<br>CA 2214390 A1<br>DE 69604572 D1<br>DE 69604572 T2<br>EP 0814749 A1<br>EP 0814749 A1<br>EP 0814749 B1<br>W0 96-27361A1 | 15.10.1999<br>23.09.1996<br>12.09.1996<br>11.11.1999<br>04.05.2000<br>04.03.1998<br>07.01.1998<br>06.10.1999<br>12.09.1996 |
| US 2007-0012643 A1                        | 18.01.2007          | US 2007-012643 A1                                                                                                                                    | 18.01.2007                                                                                                                 |
| W0 97-09956 A1                            | 20.03.1997          | AU 3535395 A<br>W0 97-09956A1                                                                                                                        | 01.04.1997<br>20.03.1997                                                                                                   |
| US 4015740 A1                             | 05.04.1977          | None                                                                                                                                                 |                                                                                                                            |
| US 2004-0256345 A1                        | 23.12.2004          | US 2004-256345 A1                                                                                                                                    | 23.12.2004                                                                                                                 |