



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**17.01.2024 Bulletin 2024/03**

(51) International Patent Classification (IPC):  
**B65D 41/04<sup>(2006.01)</sup>**

(43) Date of publication A2:  
**22.11.2023 Bulletin 2023/47**

(52) Cooperative Patent Classification (CPC):  
**B65D 41/0421**

(21) Application number: **23200416.8**

(22) Date of filing: **02.07.2018**

(84) Designated Contracting States:  
**AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR**

(71) Applicant: **Tetra Laval Holdings & Finance S.A.**  
**1009 Pully (CH)**

(30) Priority: **03.07.2017 EP 17179239**

(72) Inventor: **Johansson, Göran**  
**22186 Lund (SE)**

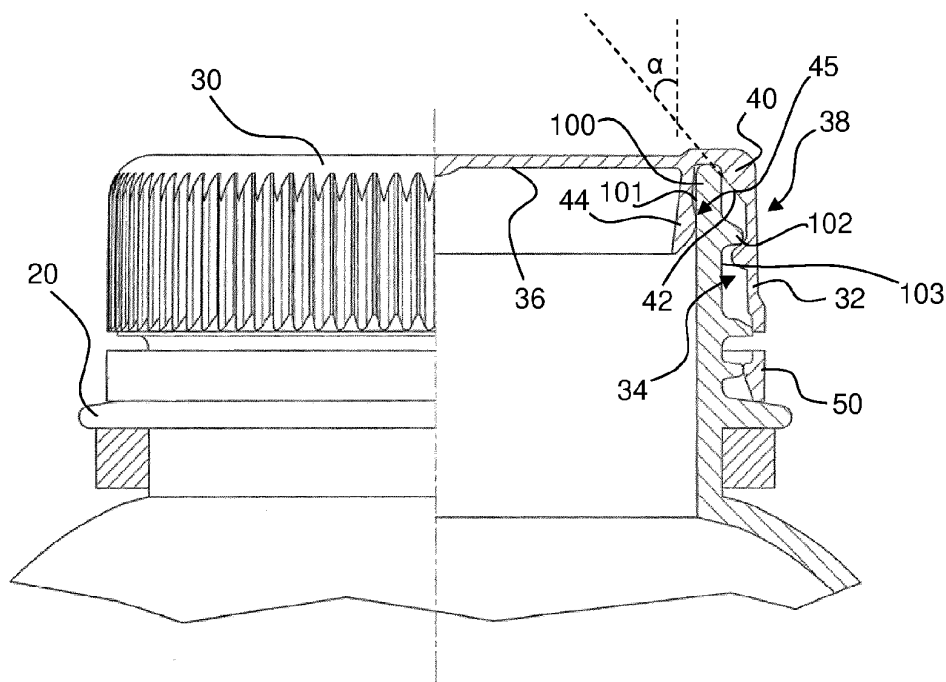
(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:  
**18181270.2 / 3 424 835**

(74) Representative: **Tetra Pak - Patent Attorneys SE**  
**AB Tetra Pak**  
**Patent Department**  
**Ruben Rausing's gata**  
**221 86 Lund (SE)**

(54) **A CAP FOR A FOOD PACKAGE**

(57) A cap (30) for closing a spout (100) of a neck (20) of a package (10) is provided. The cap comprises a sidewall (32) being provided with inner threads (34) for engagement with corresponding outer threads (102) of the neck (20), and an inner top surface (36) forming a

closing surface for the spout (100), wherein the sidewall (32) has an uppermost portion (38) connecting to the inner top surface (36), said uppermost portion (38) comprising a guiding structure (40).



**Fig. 3**



EUROPEAN SEARCH REPORT

Application Number  
EP 23 20 0416

5

10

15

20

25

30

35

40

45

50

55

| DOCUMENTS CONSIDERED TO BE RELEVANT  |  |   |   |
|--|--|---|---|
| Category   | Citation of document with indication, where appropriate, of relevant passages                                  | Relevant to claim   | CLASSIFICATION OF THE APPLICATION (IPC) |
| X  | US 2015/374153 A1 (VAN DER MOLEN PETER JAN [NL]) 31 December 2015 (2015-12-31)<br>* figures 2, 4, 5 *<br>----- | 1-6   | INV.<br>B65D41/04                       |
| X  | GB 2 264 108 A (BEESON & SONS LTD [GB]) 18 August 1993 (1993-08-18)<br>* figures 1-3 *<br>-----                | 1-6   |   |
| X  | US 2008/135514 A1 (BROSIUS JAMES RALPH [US]) 12 June 2008 (2008-06-12)   | 1-3, 6  |   |
| A  | * figures 5, 6 *<br>-----  | 4, 5  |   |
| X  | US 2 965 256 A (YOCHEM DONALD E) 20 December 1960 (1960-12-20)   | 1-4, 6  |   |
| A  | * figures 1-5 *<br>-----   | 5   |   |
| The present search report has been drawn up for all claims   |  |   |   |
| Place of search<br><b>The Hague</b>  |  | Date of completion of the search<br><b>7 December 2023</b>  | Examiner<br><b>Tzianetopoulou, T</b>    |
| CATEGORY OF CITED DOCUMENTS<br>X : particularly relevant if taken alone<br>Y : particularly relevant if combined with another document of the same category<br>A : technological background<br>O : non-written disclosure<br>P : intermediate document |  | T : theory or principle underlying the invention<br>E : earlier patent document, but published on, or after the filing date<br>D : document cited in the application<br>L : document cited for other reasons<br>.....<br>& : member of the same patent family, corresponding document |   |

2  
EPO FORM 1503 03:82 (P04C01)

ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.

EP 23 20 0416

5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

07-12-2023

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|--|------------------|-------------------------|------------------|
| US 2015374153 A1                       | 31-12-2015       | AU 2013240651 A1        | 09-10-2014       |
|  |                  | AU 2017201967 A1        | 20-04-2017       |
|  |                  | CA 2867696 A1           | 03-10-2013       |
|  |                  | CN 104364163 A          | 18-02-2015       |
|  |                  | EP 2830967 A1           | 04-02-2015       |
|  |                  | NL 2008558 C2           | 01-10-2013       |
|  |                  | PL 2830967 T3           | 29-09-2017       |
|  |                  | US 2015060457 A1        | 05-03-2015       |
|  |                  | US 2015374153 A1        | 31-12-2015       |
|  |                  | WO 2013147599 A1        | 03-10-2013       |
| -----                                  |                  |                         |                  |
| GB 2264108 A                           | 18-08-1993       | NONE                    |                  |
| -----                                  |                  |                         |                  |
| US 2008135514 A1                       | 12-06-2008       | US 2008135514 A1        | 12-06-2008       |
|  |                  | WO 2008068451 A1        | 12-06-2008       |
| -----                                  |                  |                         |                  |
| US 2965256 A                           | 20-12-1960       | NONE                    |                  |
| -----                                  |                  |                         |                  |

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82