



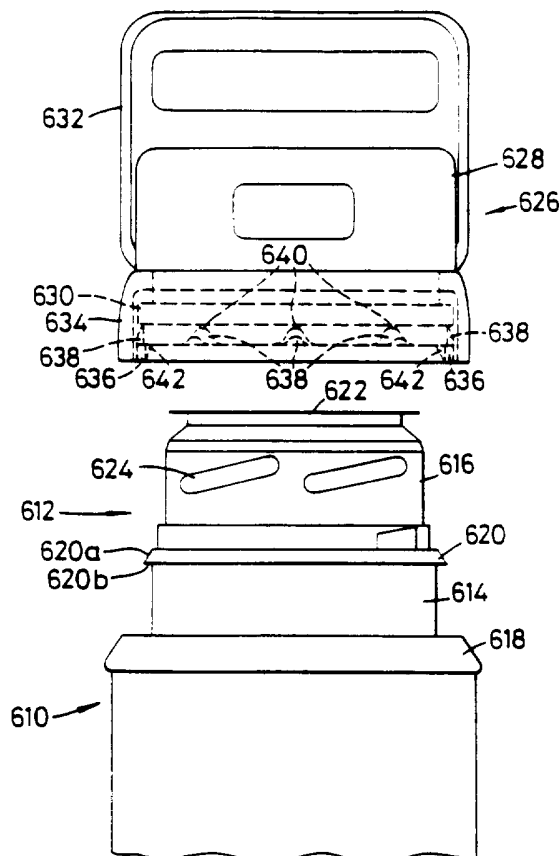
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁵ : B65D 41/04, 51/20, 55/06 B65D 41/34, 41/48, 55/02 B65D 25/16, 1/02	A3	(11) International Publication Number: WO 93/01098 (43) International Publication Date: 21 January 1993 (21.01.93)																																				
(21) International Application Number: PCT/GB92/01255 (22) International Filing Date: 10 July 1992 (10.07.92) (30) Priority data: <table border="0"> <tr><td>9114871.8</td><td>10 July 1991 (10.07.91)</td><td>GB</td></tr> <tr><td>9120264.8</td><td>23 September 1991 (23.09.91)</td><td>GB</td></tr> <tr><td>9122097.0</td><td>17 October 1991 (17.10.91)</td><td>GB</td></tr> <tr><td>9124872.4</td><td>22 November 1991 (22.11.91)</td><td>GB</td></tr> <tr><td>796,946</td><td>22 November 1991 (22.11.91)</td><td>US</td></tr> <tr><td>9125397.1</td><td>29 November 1991 (29.11.91)</td><td>GB</td></tr> <tr><td>9126242.8</td><td>11 December 1991 (11.12.91)</td><td>GB</td></tr> <tr><td>9201494.3</td><td>24 January 1992 (24.01.92)</td><td>GB</td></tr> <tr><td>9209299.8</td><td>30 April 1992 (30.04.92)</td><td>GB</td></tr> <tr><td>9209374.9</td><td>30 April 1992 (30.04.92)</td><td>GB</td></tr> <tr><td>9209420.0</td><td>30 April 1992 (30.04.92)</td><td>GB</td></tr> <tr><td>9210194.8</td><td>12 May 1992 (12.05.92)</td><td>GB</td></tr> </table> (71) Applicant (for all designated States except US): BEESON AND SONS LIMITED [GB/GB]; Hertford House, Denham Way, Rickmansworth, Hertfordshire WD3 2XB (GB).		9114871.8	10 July 1991 (10.07.91)	GB	9120264.8	23 September 1991 (23.09.91)	GB	9122097.0	17 October 1991 (17.10.91)	GB	9124872.4	22 November 1991 (22.11.91)	GB	796,946	22 November 1991 (22.11.91)	US	9125397.1	29 November 1991 (29.11.91)	GB	9126242.8	11 December 1991 (11.12.91)	GB	9201494.3	24 January 1992 (24.01.92)	GB	9209299.8	30 April 1992 (30.04.92)	GB	9209374.9	30 April 1992 (30.04.92)	GB	9209420.0	30 April 1992 (30.04.92)	GB	9210194.8	12 May 1992 (12.05.92)	GB	(72) Inventors; and (75) Inventors/Applicants (for US only) : KING, Roger, Milner [GB/GB]; KING, Witney, Milner [GB/GB]; White End Park Farm, Latimer, Bucks HP5 1UL (GB). (74) Agent: HOWICK, Nicholas, Keith; Carpmals & Ransford, 43 Bloomsbury Square, London WC1A 2RA (GB). (81) Designated States: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, PL, RO, RU, SD, SE, US, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 1 April 1993 (01.04.93)
9114871.8	10 July 1991 (10.07.91)	GB																																				
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(54) Title: IMPROVEMENTS RELATING TO A CONTAINER, TO A CONTAINER NECK, TO A CLOSURE THEREFOR, AND TO THE MANUFACTURE THEREOF

(57) Abstract

A container closure assembly consisting of a container neck (10) having a radially outer sealing surface (20) and a corresponding container closure (12) with radially inner sealing surface (18) adapted to seal against the container neck sealing surface. Means are provided to secure the closure onto the container neck, said means being separate from the sealing surfaces (18, 20). When the closure is secured to the container neck, a clearance (24) exists between the outer lip surface and the inner closure surface. The container neck is sealed by a foil seal (28).



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DK	Denmark	MI	Mali	UA	Ukraine
ES	Spain			US	United States of America

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 92/01255

I. CLASSIFICATION OF SUBJECT MATTER (if several classification symbols apply, indicate all) ⁶		
According to International Patent Classification (IPC) or to both National Classification and IPC Int.Cl.5 B 65 D 41/04 B 65 D 51/20 B 65 D 55/06 B 65 D 41/34 B 65 D 41/48 B 65 D 55/02 B 65 D 25/16 B 65D 1/02		
II. FIELDS SEARCHED		
Minimum Documentation Searched ⁷		
Classification System	Classification Symbols	
Int.Cl.5	B 65 D	
Documentation Searched other than Minimum Documentation to the Extent that such Documents are Included in the Fields Searched ⁸		
III. DOCUMENTS CONSIDERED TO BE RELEVANT⁹		
Category ^o	Citation of Document, ¹¹ with indication, where appropriate, of the relevant passages ¹²	Relevant to Claim No. ¹³
X	EP,A,0083506 (UNILEVER) 13 July 1983	1-3,9, 10,17, 18,20- 27,176
Y	see page 3, line 26 - page 4, line 5; figure 6	4-6,8, 177,178 ,193
X	--- US,A,4180961 (COLLINS) 1 January 1980 see column 2, line 50 - column 68; figures ---	1,7,11, 12,23, 24
Y	--- US,A,4767016 (COOK) 30 August 1988 see column 4, line 19 - column 4, line 60; figures ---	4-6,8, 177,178
	-/-	
^o Special categories of cited documents : ¹⁰ "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document 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 another 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 "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		
IV. CERTIFICATION		
Date of the Actual Completion of the International Search	Date of Mailing of this International Search Report	
23-10-1992	26. 02. 93	
International Searching Authority	Signature of Authorized Officer	
EUROPEAN PATENT OFFICE	NEWELL P.G.	

III. DOCUMENTS CONSIDERED TO BE RELEVANT (CONTINUED FROM THE SECOND SHEET)		
Category °	Citation of Document, with indication, where appropriate, of the relevant passages	Relevant to Claim No.
A	FR,A,1049059 (HERPIN) 28 December 1953 see the whole document ---	10, 18, 20-22, 25
X	AU,B,5046979 (YOSHINO KOGYOSHO) 26 February 1981 see the whole document ---	154-159 , 165
Y	GB,A,1104204 (BOWATER) 21 February 1968 see the whole document -----	193

INTERNATIONAL SEARCH REPORT

International application No.

PCT/GB92/01255

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 Form PCT/ISA/206 (Invitation to pay additional fees) d.d.
14 December 1992

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.:

1, 2, 17, 20, 23, 24, 154, 165, 176

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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

GB 9201255

SA 62136

This annex lists the patent family members relating to the patent documents cited in the above-mentioned international search report. The members are as contained in the European Patent Office EDP file on 01/02/93
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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AU-B- 5046979		None	
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GB-A- 1104204		None	
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