



Europäisches Patentamt  
European Patent Office  
Office européen des brevets



Publication number:

**0 414 249 A3**

(12)

## EUROPEAN PATENT APPLICATION

(21) Application number: **90116188.5**

(51) Int. Cl.<sup>5</sup>: **B65D 17/50**

(22) Date of filing: **23.08.90**

(30) Priority: **23.08.89 US 397218**

(43) Date of publication of application:  
**27.02.91 Bulletin 91/09**

(64) Designated Contracting States:  
**CH DE ES FR GB IT LI NL**

(88) Date of deferred publication of the search report:  
**09.10.91 Bulletin 91/41**

(71) Applicant: **ALUMINUM COMPANY OF AMERICA**

**Alcoa Building  
Pittsburgh Pennsylvania(US)**

(72) Inventor: **Willis, Coy W.  
1719 Coulter Road  
Apollo, Pennsylvania 15613(IS)  
Inventor: Biondich, Scott C.  
105 Kenneth Drive  
Delmont, Pennsylvania 15626(IS)**

(74) Representative: **Baillie, Iain Cameron et al  
c/o Ladas & Parry Isartorplatz 5  
W-8000 München 2(DE)**

(54) **Resealable container closure.**

(57) This invention provides a closure cap (10) and cap assembly for substantially gas-tight sealing engagement with a container closure having an opening therein circumscribed by a substantially smooth sealing surface thereon. The closure cap (10) includes a sealing portion releasably engageable in surrounding gas-tight sealing relation with the sealing surface on the container closure. The sealing portion comprises elastic portions (64) circumferentially spaced by a plurality of radially extending less elastic portions (60). The cap assembly of this invention may be anchored to the end wall of a container closure.

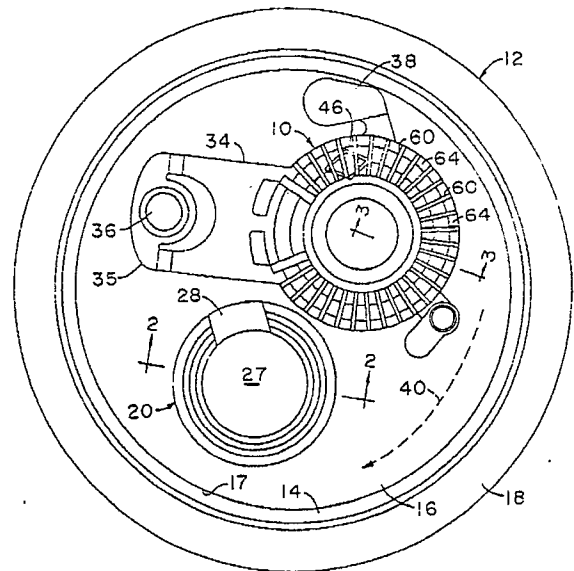


FIG. 1

EP 0 414 249 A3



| DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                      |                                                | EP 90116188.5                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------------------|
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Citation of document with indication, where appropriate, of relevant passages        | Relevant to claim                              | CLASSIFICATION OF THE APPLICATION (Int. Cl. <sup>7</sup> ) |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | US - A - 4 678 096<br>(LA BARGE et al.)<br>* Totality; esp. fig. 1,2,4 *             | 1,10                                           | B 65 D 17/50<br>B 21 D 51/38<br>B 65 D 43/18               |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | --                                                                                   | 2,3                                            |                                                            |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | US - A - 2 820 563<br>(BRONNIMANN)<br>* Totality, esp. fig. 1,2,3 *                  | 1,10                                           |                                                            |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | --                                                                                   | 4,8                                            |                                                            |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | US - A - 4 685 849<br>(LA BARGE et al.)<br>* Totality; esp. fig. 1,2,4,<br>6,7,8,9 * | 1,10                                           |                                                            |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | --                                                                                   | 2,3                                            |                                                            |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | GB - A - 1 177 875<br>(APL CORPORATION)<br>* Totality; esp. fig. 9-12 *              | 1,10                                           |                                                            |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | --                                                                                   | 4,8                                            |                                                            |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | US - A - 4 442 950<br>(WILSON)<br>* Fig. 8-10 *                                      | 1,10                                           |                                                            |
| D,A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | US - A - 4 648 528<br>(LA BARGE et al.)<br>* Totality; esp. fig. 1,2,<br>6-9 *       | 1,10                                           |                                                            |
| D,A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | US - A - 4 580 692<br>(LA BARGE et al.)<br>* Totality; esp. fig. 1,2,<br>6-9 *       | 1,10                                           |                                                            |
| The present search report has been drawn up for all claims                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                      |                                                |                                                            |
| Place of search<br>VIENNA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                      | Date of completion of the search<br>19-07-1991 | Examiner<br>CZUBA                                          |
| <p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>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</p> <p>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/> &amp; : member of the same patent family, corresponding document</p> |                                                                                      |                                                |                                                            |