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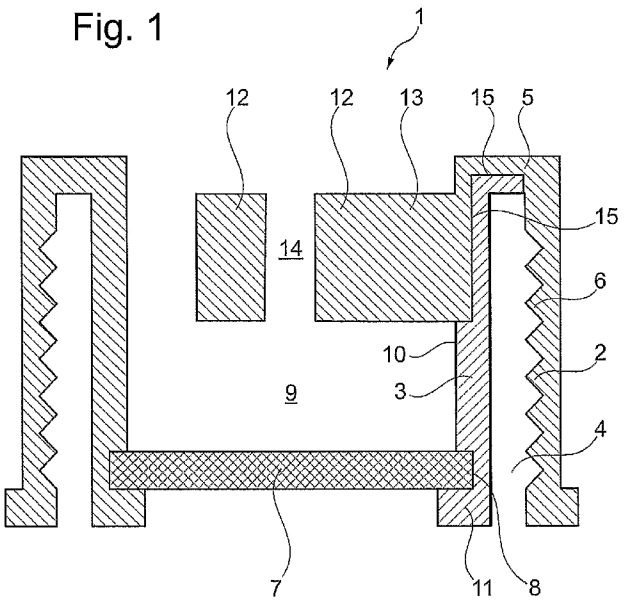
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[Continued on next page]

(54) Title: VESSEL CAP, VESSEL ASSEMBLY AND METHODS FOR PRODUCING A CAP

Fig. 1



(57) Abstract: In accordance with the invention a cap (1) for a vessel (20) is provided, the cap comprising an outer tubular element (2) and an inner tubular element (3) located within the outer tubular element, the inner tubular element (3) being separated from the outer tubular element by a cavity (4), the inner tubular element being attached at an upper end (5) to the outer tubular element; and a septum (7) mounted within the inner tubular element. A vessel assembly comprising the cap, and methods for producing and assembling the cap are also provided.

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A. CLASSIFICATION OF SUBJECT MATTER
INV. B65D51/00

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)
B65D A61J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 20 2006 001995 U1 (SARSTEDT AG & CO [DE]) 8 June 2006 (2006-06-08) page 3, paragraph 15-17 figure 1	1-3,6,7, 9,12,14, 16,20
X	JP 2003 111819 A (OTSUKA PHARMA FACTORY INC) 15 April 2003 (2003-04-15) abstract; figure 6	1-3,6,8, 9,12,16, 20
X	US 4 664 274 A (KONRAD FRANZ [AT]) 12 May 1987 (1987-05-12) column 4, lines 19-33 figure 3	1,6,9, 12,16,17

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[X] Further documents are listed in the continuation of Box C.

[X] 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

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"O" document referring to an oral disclosure, use, exhibition or other means

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"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	Date of mailing of the international search report
19 January 2009	19/06/2009

Name and mailing address of the ISA/	Authorized officer
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INTERNATIONAL SEARCH REPORT

International application No
PCT/GB2008/003823

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 084 718 A (WADSWORTH BRENT EARL) 18 April 1978 (1978-04-18)	20
A	column 2, line 36 - column 3, line 10 figure 1 -----	1-4,12, 13
A	JP 10 295776 A (NIPPON SHINYAKU CO LTD) 10 November 1998 (1998-11-10) abstract; figures 1-8 -----	1-4,20

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB2008/003823

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 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 No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search reportcovers 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.:

see additional sheet(s)

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1, 2-9, 12-17, 20

   Vessel cap with a guide ring, vessel therewith and method of assembling thereof

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2. claims: 1, 10-11, 18-19

   Vessel cap made of two thermoplastic components and method of producing thereof

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INTERNATIONAL SEARCH REPORT

International application No
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