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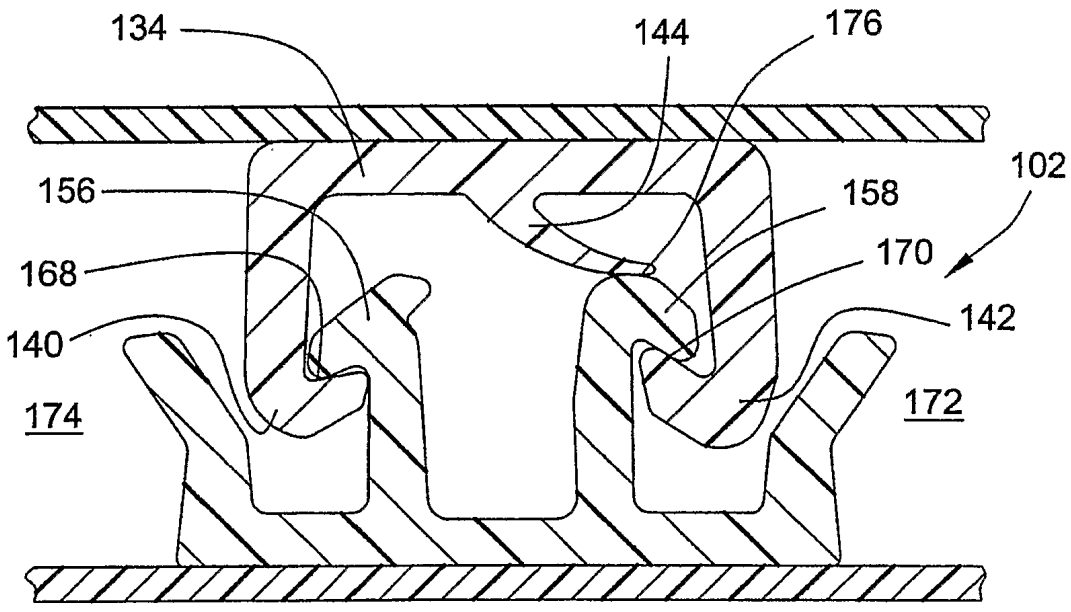
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(54) Title: LEAK PROOF CLOSURE DEVICE WITH SPRING MEMBER



(57) Abstract: A closure device includes a spring member to increase the sealing action of the closure device. The closure device is particularly suitable for use with flexible containers. The closure device includes a male and a female closure element that include male and female hook portions, respectively. The male and female hook portions interlockingly engage with one another to provide a leak proof seal for the flexible container. The spring member is attached to one of the closure elements and acts upon the hook portions of the other closure element to increase the sealing action of the closure device.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/22310

A. CLASSIFICATION OF SUBJECT MATTER
IPC: **B65D 33/16**(2006.01)

USPC: 383/61.2
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)
U.S. : 383/61.2, 63, 64, 59;24/585.12, DIG.50, 400

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 practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 4,362,198 (Kamp) 7 December 1982 (07.12.1982), see entire document.	1-3, 5, 21, 22, 24-26, 28, 43-46, 58-62 ---------- 3, 4, 12-14, 17-19, 26, 27, 29-33, 36-39, 43-45, 51, 53, 54, 59-61
X --- Y	US 5,293,672 (Tominaga et al.) 15 March 1994 (15.03.1994), see entire document.	1, 2, 23-25, 57, 58, 62 ---------- 3, 4, 12-14, 17-19, 26, 27, 29-23, 43-45, 51, 53, 54, 59-61
Y	US 5,198,055 (Wirth et al.) 30 March 1993 (30.03.1993), see entire document.	12-14, 18, 19 29-31, 53, 54

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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