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- (71) **Applicant:** ION GEOPHYSICAL CORPORATION [US/US]; 2105 CityWest Boulevard, Suite 400, Houston, Texas 77042-2839 (US).
- (72) **Inventors:** FAUCHEAUX, Eddie Joseph, Jr.; 7639 River Road, Waggaman, Louisiana 70094 (US). MOTCH, Addison Paul; 617 Codifer Boulevard, Metairie, Louisiana 70005 (US).
- (74) **Agents:** ENGEL, Joshua D. et al.; Dorsey And Whitney LLP, 1400 Wewatta Street, Suite 400, Denver, Colorado 80202 (US).
- (81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,

HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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**Published:**

- with international search report (Art. 21(3))
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(54) **Title:** PRESSURE VENT VALVE

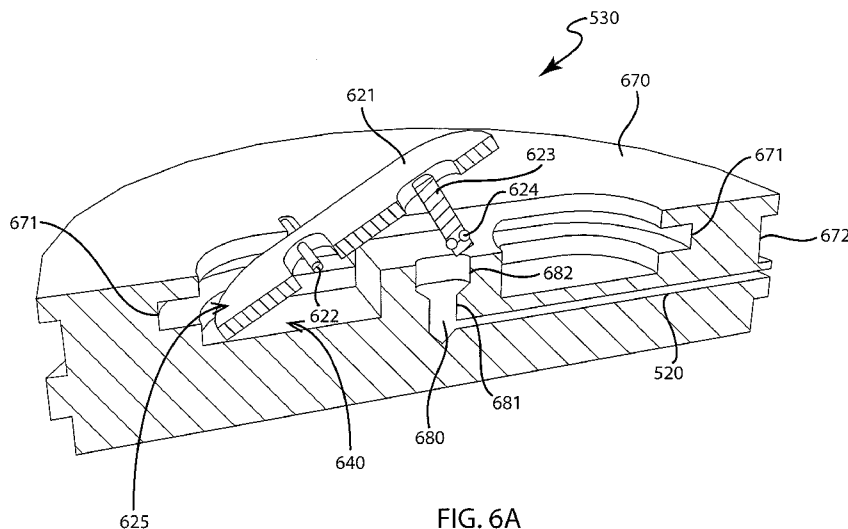


FIG. 6A

(57) **Abstract:** Embodiments of the invention are generally directed to a vent valve that may be used to seal a container. The vent valve may control a vent path connecting an interior of the container to the external environment. The vent valve may be kept open during installation and extraction of components in the container, thereby preventing an imbalance between the pressure inside the container and the external environment.



**INTERNATIONAL SEARCH REPORT**

International application No  
PCT/US2014/026296

**A. CLASSIFICATION OF SUBJECT MATTER**  
 INV. B65D51/16 G01V1/38  
 ADD.  
 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 F16K G01V

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)  
 EPO-Internal, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/111476 A1 (SERIO DONALD [US]) 19 June 2003 (2003-06-19) the whole document	1,2,5-8, 13-16
X	DE 20 2005 004130 U1 (COFRESCO FRISCHHALTEPRODUKTE [DE]) 2 June 2005 (2005-06-02) the whole document	1-10, 12-16

Further documents are listed in the continuation of Box C.

See patent family annex.

\* Special categories of cited documents :

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- "P" document published prior to the international filing date but later than the priority date claimed

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- "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

26 November 2014

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05/12/2014

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel. (+31-70) 340-2040,  
 Fax: (+31-70) 340-3016

Authorized officer

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2003111476 A1	19-06-2003	US 2003111476 A1	19-06-2003
		US 2004178202 A1	16-09-2004
-----			
DE 202005004130 U1	02-06-2005	AT 448721 T	15-12-2009
		DE 202005004130 U1	02-06-2005
		DK 1700551 T3	03-05-2010
		EP 1700551 A2	13-09-2006
		ES 2335524 T3	29-03-2010
		PT 1700551 E	18-02-2010
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