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(71) Applicant: UNITED TECHNOLOGIES CORPORATION [US/US]; 1 Financial Plaza, Hartford, Connecticut 06101 (US).

(72) Inventors: DAUTOVA, Lyutsia; P.O. Box 854, Rocky Hill, Connecticut 06067 (US). TWELVES, Wendell V.; 218 Conestoga Way, Glastonbury, Connecticut 06033 (US). BUTCHER, Evan; 82 Woodcock Court, Windsor Locks, Connecticut 06096 (US). SCHIRTZINGER, Gary A.; 181 Overlook Road, Glastonbury, Connecticut 06033 (US). OTT, Joe; 5 Storrs Road, Enfield, Connecticut 06082 (US).

(74) Agent: O'SHEA, Patrick; O'Shea Getz P.C., 1500 Main Street, Suite 912, Springfield, Massachusetts 01115 (US).

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(54) Title: ADDITIVE MANUFACTURED NON-ROUND, SEPTUM TIED, CONFORMAL HIGH PRESSURE TUBING

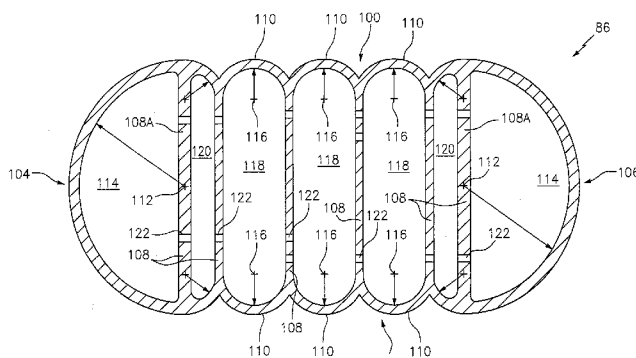


FIG. 7

(57) Abstract: A septum-tied tube pack is provided that includes a first outer wall formed by a multiple of first connected radiuses. A second outer wall is formed by a multiple of second connected radiuses. A first end radius connects the first outer wall and the second outer wall. A second end radius connects the first outer wall and the second outer wall. A multiple of septum elements extend between the first outer wall and the second outer wall. A gas turbine engine is also provided that includes an engine case structure and a fluid conduit mounted to the engine case structure. The fluid conduit includes a septum-tied tube pack section.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2015/012070**A. CLASSIFICATION OF SUBJECT MATTER****F02C 7/275(2006.01)i, F02C 7/277(2006.01)i, F02C 7/27(2006.01)i, F02K 3/06(2006.01)i**

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)

F02C 7/275; F02C 7/12; F25B 41/00; F02C 5/02; F02C 7/24; F25B 39/02; F02C 3/14; F16L 11/00; F02C 7/277; F02K 3/06

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: septum-tied tube pack, first outer wall, second outer wall, first end radius, second end radius and septum elements

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6185957 B1 (VOSS et al.) 13 February 2001 See column 6, line 35 - column 7, line 10 and figure 5.	1,6-15
Y		16-20
A		2-5
Y	US 6886325 B2 (NORRIS et al.) 03 May 2005 See column 1, lines 10-50 and figure 1.	16-20
A	US 2014-0013756 A1 (MELTON et al.) 16 January 2014 See abstract, paragraphs [0025]-[0029] and figure 6.	1-20
A	US 2006-0005546 A1 (ORLANDO et al.) 12 January 2006 See abstract, paragraph [0014] and figure 1.	1-20
A	US 2007-0000550 A1 (OSINSKI, TOMAS KAZIMIERZ) 04 January 2007 See abstract, paragraphs [0021]-[0022] and figures 1-4.	1-20



Further documents are listed in the continuation of Box C.



See patent family annex.

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"&" document member of the same patent family

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International Application Division

Korean Intellectual Property Office

189 Cheongsa-ro, Seo-gu, Daejeon, 35208, Republic of Korea

Facsimile No. +82-42-472-7140

Authorized officer

LEE, Hun Gil

Telephone No. +82-42-481-8525



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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None