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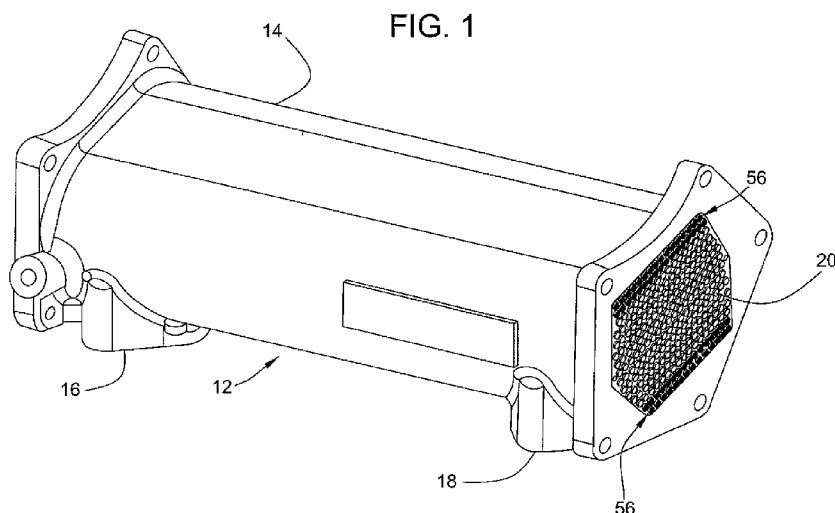
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(54) Title: COMPOSITE HEAT EXCHANGER END STRUCTURE



(57) Abstract: A heat exchanger having a tube bundle disposed within a housing with a resilient end structure disposed in compressed, plug-forming relation at least partially across the heat exchanging cavity. The resilient end structure includes one or more boundary segments extending between an internal wall of the housing and the perimeter of the tube bundle. The boundary segment includes a combination of materials having differing compression characteristics providing enhanced support to the boundary segments.

A. CLASSIFICATION OF SUBJECT MATTER***F28D 7/00(2006.01)i, F28D 7/10(2006.01)i, F28D 7/08(2006.01)i, F28F 1/00(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)

IPC: F28D, F28B, F28G

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 since 1975

Japanese Utility models and applications for Utility models since 1975

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

eKOMPASS (KIPO internal) & Keywords: heat, exchanger, tube, elastomeric, elasticity

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6810837 B2 (JOHNATHAN D. LAZARUS et al.) 2 November 2004 See Column 2, Line 36 - Column 3, Line 9 and Figure 1.	1-10
A	US 6899169 B1 (RICHARD D. COX) 31 May 2005 See Column 3, Line 59 - Column 4, Line 53 and Figure 1.	1-10
A	US 2007/0267176 A1 (LIMIN SONG) 22 November 2007 See Paragraph [0037] - Paragraph [0043] and Figures 1, 2	1-10
A	KR 10-2007-0078936 A (LG CHEM, LTD.) 3 August 2007 See page 3, line 52 - page 4, line 32 and Figures 1, 2.	1-10



Further documents are listed in the continuation of Box C.



See patent family annex.

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