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(54) Title: MULTI-STAGE FILTER ELEMENT

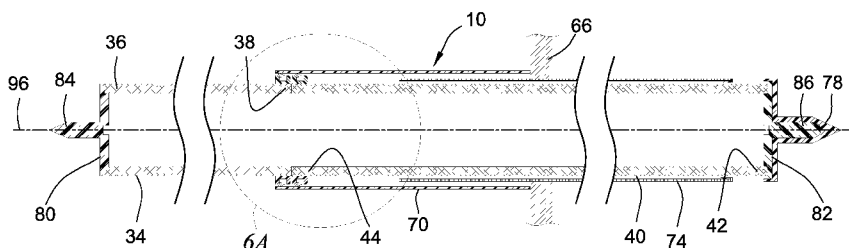


FIG. 6

(57) Abstract: Multi-stage filtration apparatus is provided. A fluid is forced through different filter stage elements allowing for removal of various contaminants from the fluid.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/026082**A. CLASSIFICATION OF SUBJECT MATTER*****B01D 46/24(2006.01)i, B01D 46/42(2006.01)i, B01D 29/50(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)

B01D 46/24; B01D 46/44; B01D 25/02; B01D 46/00

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: multi-stage, filter, seal, vessel, partition, tubesheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 05919284 A (PERRY, JR.; MARNEY DUNMAN et al.) 06 July 1999 See abstract, figs2,3,5	1-35
A	US 6168647 B1 (PERRY, JR.; MARNEY DUNMAN et al.) 02 January 2001 See abstract, all figs	1-35
A	US 05151180 A (GIORDANO; EDWARD C. et al.) 29 September 1992 See abstract, figure 1	1-35
A	US 7108738 B2 (BURNS, D. J. et al) 19 September 2006 See abstract, figs1,3,5	1-35

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

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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