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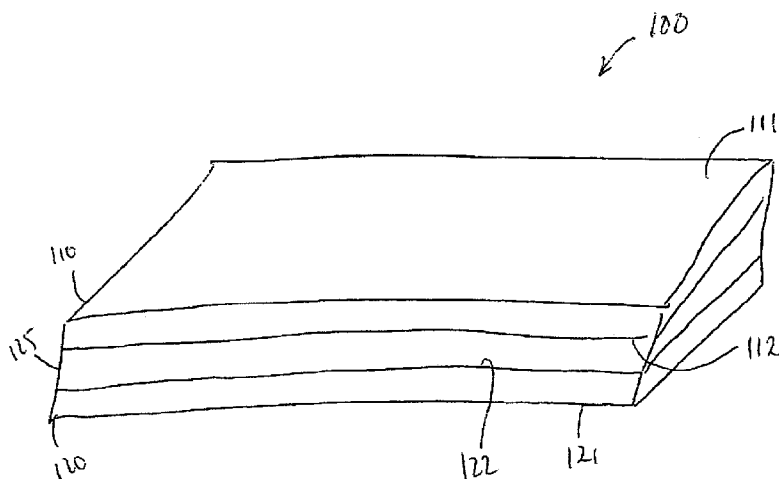
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(54) Title: LAYERED FILTER FOR TREATMENT OF CONTAMINATED FLUIDS



(57) Abstract: A filter for use in the treatment of contaminated fluid is provided. The filter, in an embodiment, includes two filter elements, each substantially flat in shape, for use in removing certain contaminants from the fluid flow. The filter further includes a waste adsorbent material, positioned between the two filter elements for use in removing additional contaminants within the fluid flowing across the filter elements. The waste adsorbent material, in an embodiment, may be a nanosorbent material manufactured from self-assembled monolayers on mesoporous supports (SAMMS). The filter can form a barrier through which contaminated fluid flows for removing certain contaminants from the fluid.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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USPC: 210/335

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 210/335-337, 340, 342, 505, 508, 483, 488-492

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	US 6,274,041 B1 (WILLIAMSON et al) 14 August 2001 (14.08.2001), see Figure 4.	1-33 and 38-48
X	US 6,492,183 B1 (PERMAN et al) 10 December 2002 (10.12.2002), see Figure 1.	21, 34-38, 49 and 50
A	US 5,762,797 A (PATRICK et al) 09 June 1998 (09.06.1998), see Figure 2.	1-50
A	US 5,902,480 A (CHILTON et al) 11 May 1999 (11.05.1999), see Figure 3.	1-50
A	US 5,133,864 A (VAUGHN et al) 28 July 1992 (28.07.1992), see Figure 4.	1-50
A	US 6,309,546 B1 (HERRMANN et al) 30 October 2001 (30.10.2001), see Figure 1.	1-50
A	US 2005/01037313 A1 (RAMSEY et al) 19 May 2005 (19.05.2005), see Figure 3A.	1-50



Further documents are listed in the continuation of Box C.



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