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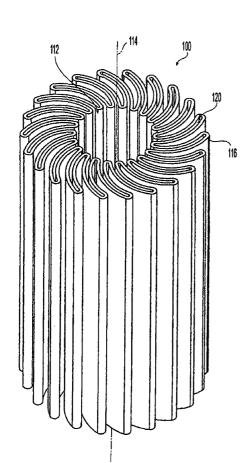
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[Continued on next page]

(54) Title: POROUS FILTER



(57) Abstract: A filter has a longitudinal axis with an inner diameter defined by a hollow longitudinally extending center. The filter has fingers extend radially outwardly arcuately from the longitudinal axis. The fingers have base ends near the longitudinal axis and outer edges at extremities spaced from the longitudinal axis. The outer diameter of the filter is defined by the outer edges of the fingers. The filter is formed from a sintered porous molded thermoplastic or another material resulting in a filter more ridig than standard filters. The fingers are spaced apart from one another a predetermined, substantially fixed distance to form slots therebetween sized to capture contaminants therein.

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### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/17007

A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) : B01D 27/06, 29/07			
US CL: 210/493.1 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) U.S.: 210/493.1, 348, 483, 487, 497.01, 435, 493, 499, 455; 55/289, 290, 477, 520, 523			
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 a	ppropriate, of the relevant passages	Relevant to claim No.	
X US 5,472,606 (Steere et al) 05 December 1995 (05.1	6 (Steere et al) 05 December 1995 (05.12.1995), col. 9, lines 12-32; col. 5, col. 1, lines 23-28; col. 10, lines 21-29; col. 4, lines 1-68.		
Y		2, 5, 12, 16-17, and 21-22	
Y US 3,591,010 (Pall et al) 06 July 1971 (06.07.1971), col. 24, lines 33-35; col. 13, lines 23-27; col. 4, lines 1-4; col. 5, lines 11-60; col. 6, lines 51-53; col. 2, lines 58-63; col. 12, lines 54-56.		2, 5-8, 12, 16-17, and 22	
Y US 5,316,677 (Harms, II) 31 May 1994 (31.05.1994), col. 4, lines 33-36.		21	
Further documents are listed in the continuation of Box C.	See patent family annex.		
Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention		
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be consider when the document is taken alone		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the considered to involve an inventive ste combined with one or more other such	when the document is	
"O" document referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in th	e art	
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent		
Date of the actual completion of the international search	Date of mailing of the international search report  1 9 MAY 2005		
02 May 2005 (02.05.2005)  Name and mailing address of the ISA/US	Authorized officer	2 - 0	
Mail Stop PCT, Attn: ISA/US Commissioner of Patents	Wanda Walker	tilled	
P.O. Box 1450 Alexandria, Virginia 22313-1450	Telephone No. (571)272-1700		
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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/17007

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)		
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:		
Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:		
Claim Nos.:  because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:		
3. Claim Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)		
This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet		
<ol> <li>As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.</li> <li>As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.</li> <li>As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:</li> </ol>		
A. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-26  Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.		

INTERNATIONAL SEARCH REPORT	PCT/US04/17007
INTERNATIONAL SEARCH REFORT	
BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LAC This application contains the following inventions or groups of inventions inventive concept under PCT Rule 13.1. In order for all inventions to be examined	s which are not so linked as to form a single general
paid.	
Group I, Claim(s) 1-26, drawn to filter.	
Group II, Claim(s) 27-30, drawn to method for making filter.	
The inventions listed as Groups I and II do not relate to a single general i PCT Rule 13.2, they lack the same or corresponding special technical features for Steere et al., U.S. Patent No. 5,472,606.	inventive concept under PCT Rule 13.1 because, under the following reasons: the filter is anticipated by

Form PCT/ISA/210 (second sheet) (July 1998)