(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
6 March 2003 (06.03.2003)

PCT

(10) International Publication Number
WO 03/018160 A3

(51) International Patent Classification[7]: B01D 39/02, 24/00, 47/16, 33/70, C12M 1/12

(21) International Application Number: PCT/US02/26101

(22) International Filing Date: 16 August 2002 (16.08.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/938,466 23 August 2001 (23.08.2001) US

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(81) Designated States *(national)*: CA, CN, KR, MX.

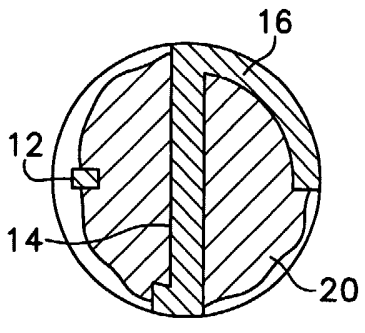
(84) Designated States *(regional)*: European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR).

Published:
— *with international search report*

(88) Date of publication of the international search report:
15 May 2003

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: BIOLOGICAL FILTER STRUCTURES



(57) Abstract: A biological filter element includes a support element (10) of generally ellipsoidal configuration. The support element (10) has two opposite polar regions and includes a medial ring (12) intermediate the two opposite polar regions and a plurality of arcuate ribs extending from the medial ring to each polar region. Adjacent arcuate ribs (16) are angulary spaced to provide access to an interior space of the support element (10). A cohesive body of biologically active material (20) surrounds the support element (10) and penetrates the interior space of the support element (10).

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US02/26101

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B01D 39/02, 24/00, 47/16, 33/70; C12M 1/12
US CL : 435/297.1; 55/512, 522; 261/94; 210/150

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. : 435/297.1; 55/512, 522; 261/94; 210/150

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.
A	US 4,122,011 A (STRIGLE, JR.) 24 October 1978, see description of figure 1 and figure 6.	1-13
A	US 4,581,299 A (JAGER) 8 April 1986, see description of figures 1 and 2.	1-13
A	US 4,668,442 A (LANG) 26 MAY 1987, see description of figures 1-4.	1-13
A	US 4,842,920 A (BANAI et al.) 27 June 1989, see description of figures 1 and 2.	1-13
A	US 5,217,616 A (SANYAL et al.) 8 June 1993, see description of figure 1,7,8.	6-13
A	US 5,690,819 A (CHIANH) 25 November 1997, see description of figure 2.	1-13

☐ 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

Date of the actual completion of the international search	Date of mailing of the international search report
07 November 2002 (07.11.2002)	26 FEB 2003
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230	Authorized officer David A Redding Telephone No. 703-308-0661

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