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

(19) World Intellectual Property Organization
International Bureau

(43) International publication date
13 December 2001 (13.12.2001)

162162

(10) International publication number
WO 01/094527 A3

PCT

(51) International patent classification[7]: C12M 1/12, B01D 63/02

(21) International application number: PCT/FR01/01786

(22) International filing date: 8 June 2001 (08.06.2001)

(25) Language of filing: French

(26) Language of publication: French

(30) Data relating to the priority:
00/07,459 9 June 2000 (09.06.2000) FR

(71) Applicant *(for all designated States except US)*: **BIO MERIEUX** [FR/FR]; Chemin de l'Orme, F-69280 Marcy l'Etoile (FR).

(72) Inventors; and
(75) Inventors/Applicants *(US only)*: **GUILLOT, Emmanuelle** [FR/FR]; 23 bis, rue de Tourville, F-78100 Saint Germain en Laye (FR). **DURAND-BOURLIER, Laurence** [FR/FR]; 64, avenue Marguerite Renaudin, F-92140 Clamart (FR). **BULTEAU, Stéphane** [FR/FR]; 22, rue Saint Jérôme, F-69007 Lyon (FR).

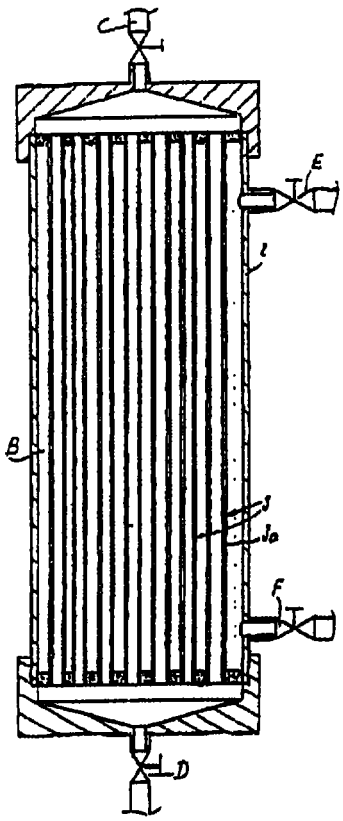
(74) Representative: **DIDIER, Mireille**; Cabinet Germain & Maureau, PO BOX 6153, F-69644 Lyon Cedex 06 (FR).

[continued on next page]

As printed

(54) Title: PREPARING A SAMPLE TO BE ANALYSED FROM A SAMPLE WITH VERY LARGE VOLUME

(54) Titre : PREPARATION D'UN ECHANTILLON A ANALYSER A PARTIR D'UN ECHANTILLON DE TRES GRAND VOLUME



(57) Abstract: The invention concerns the use of filtering means comprising a housing (2) wherein are arranged parallel to one another a plurality of hollow fibres (3), whereof the porous wall (3a) of each defines an aperture (4), so that said means comprises a inner path and an outer path (B) corresponding to the volume available between the fibres and the disc separator for treating an initial sample with large volume comprising in diluted state a plurality of micro-organisms of different sizes. The invention is characterised in that during at least a concentration step, one single means of filtering is available, the atomic mass unit threshold of the porous wall (3a) of the fibres is determined so as to retain the smallest micro-organism of the initial sample, said means being used in frontal mode and discontinuously, thereby providing the output sample liquid, that is the concentrate.

(57) Abrégé : Utilisation d'un moyen de filtration comportant un carter (2) dans lequel sont disposées parallèlement les unes aux autres une multiplicité de fibres creuses (3), dont la paroi poreuse (3a) de chacune détermine une lumière (4), en sorte que ledit moyen comporte une voie interne et une voie externe (B) correspondant au volume disponible entre les fibres et le carter,pour le traitement d'un échantillon liquide de départ de volume important comportant à l'état dilué une multiplicité de microorganismes de tailles différentes, utilisation selon laquelle, pendant au moins une étape de concentration, on dispose d'un seul moyen de filtration, le seuil de coupure de la paroi poreuse (3a) des fibres est déterminé en sorte d'arrêter le micro-organisme de l'échantillon de départ de plus petite taille, ledit moyen est utilisé en mode frontal et de manière discontinue et on obtient l'échantillon liquide de sortie c'est-à-dire le concentrat.

WO 01/094527 A3

G00002

(81) **Designated states** *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) **Designated states** *(regional)*: ARIPO Patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian Patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European Patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI Patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

- *With the International Search Report.*

(88) **Date of publication of the International Search Report:** 17 October 2002

For an explanation of the two-letter codes and the other abbreviations, reference is made to the explanations ("Guidance Notes on Codes and Abbreviations") at the beginning of each regular edition of the PCT Gazette.