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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
21 November 2002 (21.11.2002)

PCT

(10) International Publication Number
WO 02/092151 A2

(51) International Patent Classification[7]: A61M 1/00

(21) International Application Number: PCT/US02/22075

(22) International Filing Date: 4 March 2002 (04.03.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/799,466 5 March 2001 (05.03.2001) US

(71) Applicant: **TRANSVIVO, INC.** [US/US]; Suite 108, 1100 Lincoln Avenue, Napa, CA 94558 (US).

(72) Inventors: **GORSUCH, Reynolds, G.**; 1119 State Line, Yountville, CA 94599 (US). **VENKAT, Kris**; 62 Kingberry Drive, Somerset, NJ 08873 (US).

(74) Agent: **HUNT, Dale, C.**; KNOBBE, MARTENS, OLSON & BEAR, LLP, 16th Floor, 620 Newport Center Drive, Newport Beach, CA 92660 (US).

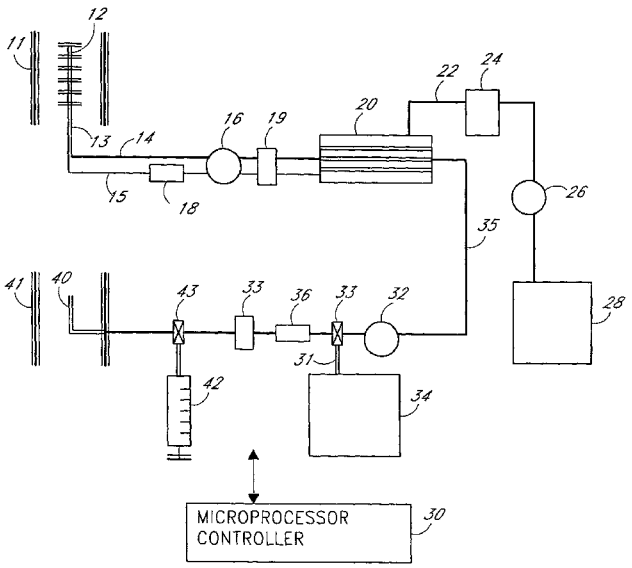
(81) Designated States *(national)*: AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, 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, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, 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, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *without international search report and to be republished upon receipt of that report*

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: APPARATUS AND METHOD FOR SELECTIVE REDUCTION OF SEGMENTAL INTRACELLULAR AND EXTRACELLULAR EDEMA



(57) Abstract: Segmental edema is treated by inserting a plasma extraction filter device (12) in a major vein (11) of a body segment or servicing the body segment containing the edemic tissues, and inserting a return catheter (40) in a major artery (41) of the body segment affected or feeding the body segment from which plasma is extracted. Blood plasma and plasma proteins extracted from the edemic body segment through the plasma extraction filter are directed to an ultrafiltration apparatus (20) where plasma water is separated from the plasma proteins. Plasma proteins are returned to the body segment from which the plasma was extracted via the return catheter (40) in the major artery (41) of the subject body segment.

WO 02/092151 A2