

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
19 July 2001 (19.07.2001)

PCT

(10) International Publication Number
WO 01/51170 A1

(51) International Patent Classification⁷: **B01D 37/00**,
39/00, 37/02

(21) International Application Number: PCT/US01/01293

(22) International Filing Date: 12 January 2001 (12.01.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/176,363 14 January 2000 (14.01.2000) US

(71) Applicant: **MILLIPORE CORPORATION** [US/US];
HUBBARD, John, Dana, 80 Ashby Road, Bedford, MA
01730 (US).

(72) Inventors: **KELLY, Wayne**; 14711 Cherry Court, Prior
Lake, MN 55372 (US). **GRANT, Donald**; 2782 Piper
Ridge Lane, Excelsior, MN 55331 (US). **GODDARD,**
Philip; 15 Valiant Lane, Nashua, NH 03064 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ,
DE, DK, DM, DZ, 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, 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 international search 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: SYSTEM AND METHOD FOR LIQUID FILTRATION BASED ON A NEUTRAL FILTER MATERIAL

(57) Abstract: The present invention teaches, that the removal of particles of any charge from liquid stream is possible by mechanisms other than sieving with good flow and low pressure drop. The use of a weakly charged or neutral surface on the one or more filters within a preselected pH range is used. Consequently, particles that are much smaller than the filter pore size are captured with high efficiency. The essentially neutral or weakly charged material filter surface in the filtration liquid may be formed through the proper selection of filter material or a surface modification of the base filter(s) to create the essentially neutral or weakly charged surface.



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