



(51) International Patent Classification:
F16L 3/12 (2006.01)

(21) International Application Number:
PCT/US2011/042188

(22) International Filing Date:
28 June 2011 (28.06.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/360,644 1 July 2010 (01.07.2010) US

(71) Applicant (for all designated States except US): **MILLIPORE CORPORATION** [US/US]; 290 Concord Road, Billerica, MA 01821 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MORRISSEY, Martin** [US/US]; C/o Millipore Corporation, 290 Concord Road, Billerica, MA 01821 (US). **SCHAUER, Neil** [US/US]; C/o Millipore Corporation, 290 Concord Road, Billerica, MA 01821 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(54) Title: RIGID DISPOSABLE FLOW PATH

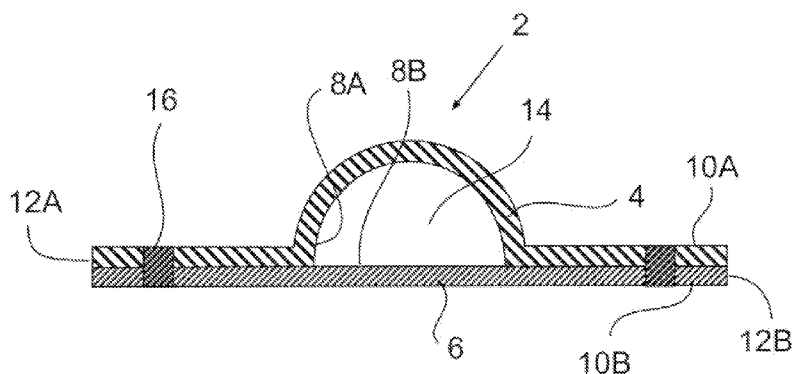


Figure 1

(57) Abstract: The present invention provides a disposable rigid flow path which by itself or in conjunction with a clam shell or manifold system provides additional pressure resistance for the disposable device. In a first embodiment, the device is comprised of a first sheet of rigid plastic material and a second sheet of plastic material. Each sheet has a first major surface and a second major surface and a thickness between the first and second major surfaces. At least one and preferably both have flow channels formed in them. The flow channels are formed in the sheet such that they extend away from the first major surface of the sheet and beyond the normal plane of the second major surface of the sheet.. The first and second sheets are liquid tightly sealed to each other at their adjoining first major surfaces.



WO 2012/003185 A1