



(51) International Patent Classification:

C12M 1/18 (2006.01) *C12M 1/38* (2006.01)
C12M 3/00 (2006.01) *C12N 5/07* (2010.01)
C12M 1/04 (2006.01)

(21) International Application Number:

PCT/US2012/067632

(22) International Filing Date:

3 December 2012 (03.12.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/566,651 3 December 2011 (03.12.2011) US

(71) Applicant: **EMD MILLIPORE CORPORATION**
[US/US]; 290 Concord Road, Billerica, MA 01821 (US).

(72) Inventors; and

(71) Applicants : **LEE, Philip, J.** [US/US]; 609 Sheffield Road, Alameda, CA 94502 (US). **GAIGE, Terry** [US/US]; 2544 Barrington Court, Hayward, CA 94545 (US). **HO, Jessie** [US/US]; 1034 Gull Avenue, Foster City, CA 94404 (US).

(74) Agents: **BAKER, Gary** et al.; Quine Intellectual Property Law Group, P.C., P.O. Box 458, Alameda, CA 94501 (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, BN, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, 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, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, 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).

Declarations under Rule 4.17:

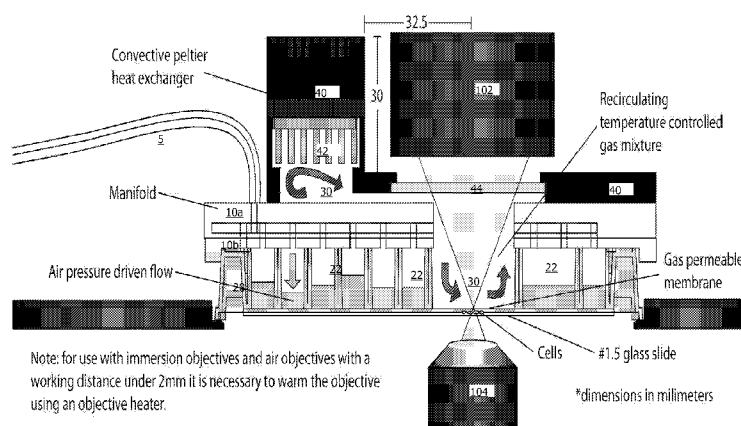
— of inventorship (Rule 4.17(iv))

Published:

— with international search report (Art. 21(3))

(54) Title: MICRO-INCUBATION SYSTEMS FOR MICROFLUIDIC CELL CULTURE AND METHODS

FIG. 1



(57) Abstract: A micro-incubator manifold for improved microfluidic configurations and systems and methods of manufacture and operation for a manifold and automated microfluidic systems.