



- (51) **International Patent Classification:**
B01L 3/14 (2006.01)
- (21) **International Application Number:**
PCT/IB2012/057797
- (22) **International Filing Date:**
28 December 2012 (28.12.2012)
- (25) **Filing Language:** Italian
- (26) **Publication Language:** English
- (30) **Priority Data:**
BO2011A000766 28 December 2011 (28.12.2011) IT
- (71) **Applicant:** SILICON BIOSYSTEMS S.P.A. [IT/IT]; Via dei Lapidari, 12, Bologna (IT).
- (72) **Inventors:** CALANCA, Alex; Via Statale Nord, 134, I-41037 Mirandola (IT). MEDORO, Gianni; Via della Badia, 9, I-40033 Casalecchio Di Reno (IT). MANARESI, Nicolò; Via Santo Stefano, 132, I-40125 Bologna (IT). GIORGINI, Giuseppe; Via G. Bruno, 6, I-35100 Padova (IT).
- (74) **Agents:** JORIO, Paolo et al.; STUDIO TORTA S.p.A., Via Viotti, 9, I-10121 Torino (IT).
- (81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

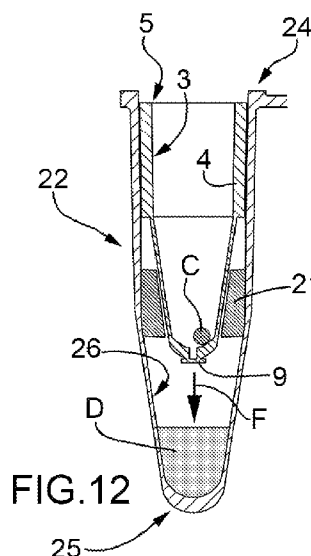
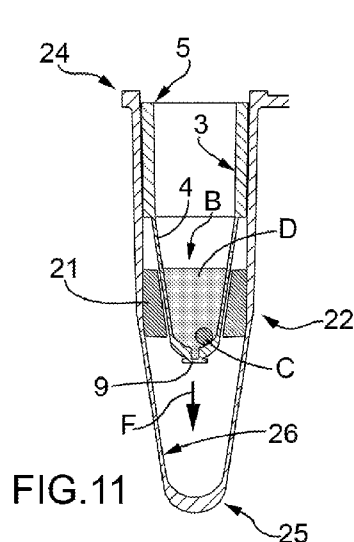
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, 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).

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:** DEVICES, APPARATUS, KIT AND METHOD FOR TREATING A BIOLOGICAL SAMPLE



(57) **Abstract:** Method for the treatment of a biological sample (B) comprising at least one cell (C) and a liquid component (D); according to the method, a force is applied to the sample (B) inserted in an inner chamber (3) of a hollow device (2) towards a filter (9) which has pores with diameters from 2nm to 1µm, so that at least part of the liquid component (D) passes through the filter (9) and the cell (C) remains in the inner chamber (3), thus obtaining a concentrated sample (A); the filter has a surface facing the inner chamber (3) of less than 12.6mm².