



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : G01N 33/545	A1	(11) International Publication Number: WO 99/10742 (43) International Publication Date: 4 March 1999 (04.03.99)
(21) International Application Number: PCT/US98/17758 (22) International Filing Date: 27 August 1998 (27.08.98) (30) Priority Data: 60/057,192 29 August 1997 (29.08.97) US (71) Applicant (for all designated States except US): FERTILITY ACOUSTICS INC. [US/US]; 6576 East Quaker Street, Orchard Park, NY 14127 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): McNEIRNEY, John, C. [-/US]; 405 Dix-Lee-On Drive, Fairburn, GA 30213 (US). BURNS, William, H., Jr. [-/US]; 69 Forest Drive, Orchard Park, NY 14127 (US). GIBBONS, William, S., Jr. [-/US]; 28 Temple Place, East Aurora, NY 14052 (US). (74) Agents: ELISEEVA, Maria, M. et al.; Hodgson, Russ, Andrews, Woods & Goodyear, 1800 One M & T Plaza, Buffalo, NY 14203-2391 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, 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), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: METHOD AND APPARATUS FOR RAPID ANALYSIS OF ANALYTES IN BIOLOGICAL SAMPLES		
(57) Abstract The device and method of the present invention relate to detecting physiological changes in humans and other mammals by monitoring and detecting changes in concentration of various blood components. In particular, a concentration of an analyte is determined by immobilizing the analyte in a medium with a first antibody having a specific affinity for the analyte, labeling the analyte with a detectable second antibody, and utilizing spectrophotometric, colorimetric and fluorimetric methods of analysis to calculate the concentration.		