

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
3 February 2011 (03.02.2011)

PCT

(10) International Publication Number
WO 2011/012848 A8

- (51) International Patent Classification:
C12Q 1/00 (2006.01) G01N 33/558 (2006.01)
- (21) International Application Number:
PCT/GB2010/001420
- (22) International Filing Date:
26 July 2010 (26.07.2010)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
0913015.4 27 July 2009 (27.07.2009) GB
0916067.2 12 September 2009 (12.09.2009) GB
- (71) Applicant (for all designated States except US): SURE-SENSORS LTD [GB/GB]; Fanellan, Kiltarlity, Inverness-shire IV4 7JP (GB).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): HALL, Geoffrey Frank [GB/GB]; Carsewood, Fortrose, Ross-shire IV10 8SH (GB).
- (74) Agent: Macdonald, Kate; Capella IP Ltd, 5 Druid Temple Way, Inverness IV2 6UQ (GB).
- (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, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

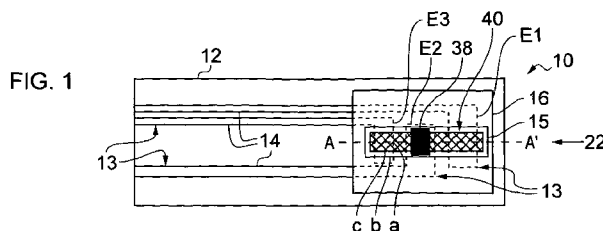
Published:

- 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))

(48) Date of publication of this corrected version:
10 March 2011

(15) Information about Correction:
see Notice of 10 March 2011

(54) Title: IMPROVEMENTS RELATING TO SENSOR DEVICES



(57) Abstract: The present invention relates to a sensor device for measuring a level of an analyte of interest in a fluid, such as body fluid (for example blood, plasma, urine, interstitial fluid, saliva), a method of manufacturing a sensor device, a reagent film for use in a sensor, a method of manufacturing a reagent film for use in a sensor, a method of conducting an assay using a sensor, a method of calibrating a measurement from a sensor, a method of calibrating a batch of sensors, a meter for use with a sensor and a kit comprising a meter and a sensor according to the invention. A first aspect of the invention provides a sensor device for measuring a level of an analyte of interest in a fluid comprising: a flowpath for the fluid; on the flowpath, a reagent for the analyte of interest adjacent to an internal standard comprising a first predetermined amount of a first calibration analyte; and further wherein the reagent and the predetermined amount of a first calibration analyte are in dry form. A second aspect of the invention provides a device comprising: a first calibration electrode having the first predetermined amount of first calibration analyte and reagent for the analyte of interest located thereon; a first working electrode having reagent for the analyte of interest thereon, and further wherein the first calibration electrode lies upstream of the first working electrode.



WO 2011/012848 A8