

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
30 September 2021 (30.09.2021)



(10) International Publication Number
WO 2021/195657 A1

(51) International Patent Classification:

A61B 5/20 (2006.01) A61B 5/145 (2006.01)
A61B 5/00 (2006.01) A61B 10/00 (2006.01)
A61B 5/103 (2006.01)

(21) International Application Number:

PCT/US2021/070295

(22) International Filing Date:

22 March 2021 (22.03.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/993,137	23 March 2020 (23.03.2020)	US
17/205,473	18 March 2021 (18.03.2021)	US
17/205,491	18 March 2021 (18.03.2021)	US

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(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, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, 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, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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, ST, 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, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

(54) Title: SYSTEM AND METHOD FOR MEASURING ANALYTE CONCENTRATION IN BODILY FLUIDS

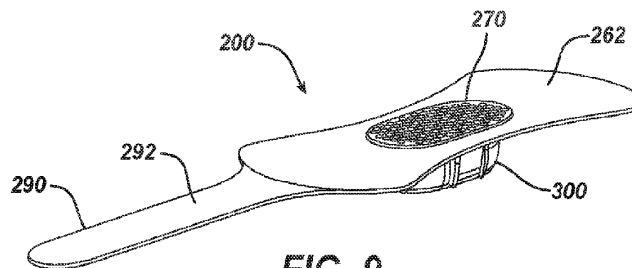


FIG. 9

(57) Abstract: A system and kit for measuring analyte concentration in a bodily fluid include a durable component, at least one indicator component including an indicator zone, and at least one moisture sensor. The kit has multiple individually packaged indicator components. Methods of measuring analyte concentration in bodily fluids and predicting future health risk include the steps of collecting and transporting bodily fluid to at least one colorimetric analyte sensing element and detecting the presence of bodily fluid in contact with the at least one colorimetric analyte sensing element, collecting optical data relating to the at least one colorimetric analyte sensing element with at least one spectrophotometer after a predetermined time period after detecting the presence of bodily fluid, communicating the optical data to a computing system having at least one processor and data storage, and analyzing the optical data to determine at least one analyte concentration in the bodily fluid.

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Published:

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