

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
14 September 2023 (14.09.2023)



(10) International Publication Number
WO 2023/168529 A1

(51) International Patent Classification:

G01N 33/551 (2006.01) G01N 33/553 (2006.01)
G01N 5/02 (2006.01) G01N 33/558 (2006.01)
G01N 21/552 (2014.01) G01N 33/569 (2006.01)

(21) International Application Number:

PCT/CA2023/050312

(22) International Filing Date:

09 March 2023 (09.03.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/318,365 09 March 2022 (09.03.2022) US

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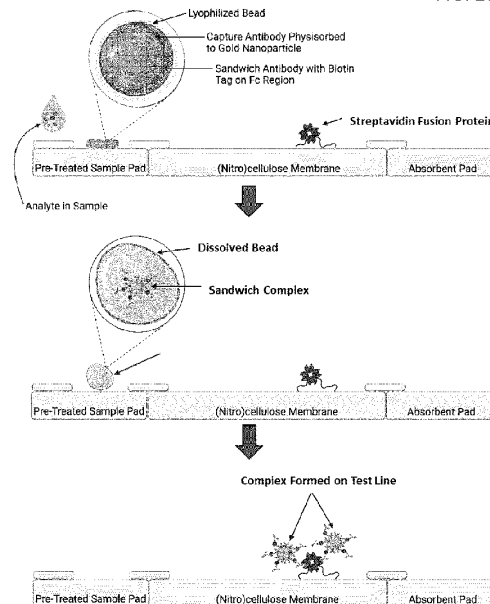
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, 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, CV,

(54) Title: DUAL-AFFINITY PROBES AND SYSTEMS FOR ANALYTE DETECTION

FIG. 28



(57) Abstract: The present document describes a dual-affinity probe comprising an organic or inorganic surface binding peptide and a target-specific capture element, which may bind to various targets, such as pathogens. This document further describes uses of the dual-affinity probe, and kits to determine the presence of and/or quantity of a target in a sample. In particular embodiments, the dual-affinity probe is specific for SARS-CoV-2 (Spike or Nucleocapsid) protein and may be used to determine whether a subject is infected with SARS-CoV-2.

[Continued on next page]

GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, 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).

Published:

- with international search report (Art. 21(3))
- with sequence listing part of description (Rule 5.2(a))
- in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE