

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
15 August 2024 (15.08.2024)



(10) International Publication Number
WO 2024/164060 A1

(51) International Patent Classification:
G16H 50/20 (2018.01) *G16H 15/00* (2018.01)
A61B 5/00 (2006.01)

94401 (US). **STRETCH, Cynthia**; 3523 Lakeside Crescent
SW, Calgary, Alberta T3E 6A7 (CA).

(21) International Application Number:
PCT/CA2023/050173

(74) Agent: **BAILEY, Timothy C.** et al.; c/o Gowling WLG
(Canada) LLP, Suite 1600, 421 - 7 Avenue SW, Calgary,
Alberta T2P 4K9 (CA).

(22) International Filing Date:
10 February 2023 (10.02.2023)

(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.

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant: **QUALISURE DIAGNOSTICS INC.**
[CA/CA]; 3655 36th Street NW, Calgary, Alberta T2L 1Y8
(CA).

(72) Inventors: **BATHE, Oliver**; 363 Varsity Close NW, Cal-
gary, Alberta T3B 2Y9 (CA). **FARSHIDFAR, Farshad**;
821 N El Camino Real Apt 202, San Mateo, California

(54) Title: SYSTEMS AND METHODS FOR GUIDED DIAGNOSTIC TESTING AND CLOUD-BASED ANALYSIS

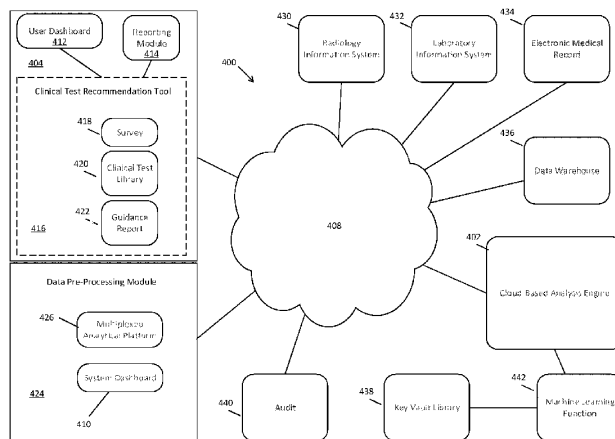


FIG. 4

(57) Abstract: A diagnostic testing and analysis system for operating on a network, which may be a cloud-based architecture, includes a user terminal for obtaining one or more user instructions, providing recommendations for diagnostic tests based on user input, a central hub for accessing and ordering one or more tests, two or more data pre-processing modules (DPPMs), each DPPM for receiving raw medical test data and converting the data to a data matrix, an analysis engine for interpreting data from each of the data matrices, and producing a report comprising the diagnostic test result and the recommendations, where the user terminal, the clinical test recommendation tool, the DPPMs, and the analysis engine each comprise an interface to communicate over the network and the user can order one or more medical tests.

[Continued on next page]

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, CV, 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))*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*