

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
05 October 2023 (05.10.2023)



(10) International Publication Number
WO 2023/186532 A1

(51) International Patent Classification:

G16H 50/30 (2018.01) G16H 40/67 (2018.01)
A61B 5/00 (2006.01) A61B 5/024 (2006.01)
G16H 40/63 (2018.01)

(21) International Application Number:

PCT/EP2023/056518

(22) International Filing Date:

14 March 2023 (14.03.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

22165124.3 29 March 2022 (29.03.2022) EP

(71) Applicant: HEARTKINETICS [BE/BE]; Rue Auguste Piccard 48, 6041 Gosselies (BE).

(72) Inventors: MIGEOTTE, Pierre-François; Rue de Laeken 34, 1000 Bruxelles (BE). GORLIER, Damien; Rue Hennepin 11/3, 7800 Ath (BE).

(74) Agent: CALYSTA NV; Lambroekstraat 5A, 1831 Diegem (BE).

(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, 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

(54) Title: METHOD, SYSTEM AND COMPUTER PROGRAM FOR DETECTING A HEART HEALTH STATE

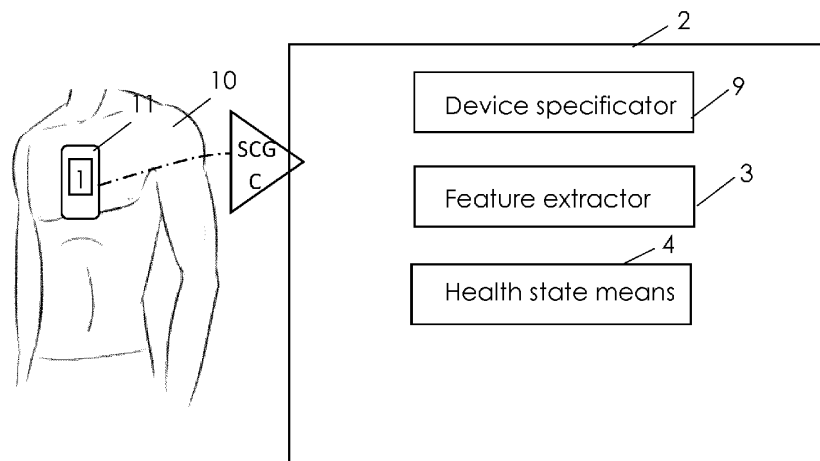


Fig. 1

(57) Abstract: System for detecting a health state of a heart of a user (10) comprising: a device (1) including an IMU (1), wherein the IMU (1) is configured to measure a measurement signal when the device is placed on a body of the user (10); a processing means (2) configured to determine a characteristic of the device (11), to determine the health state of the heart of the user (10) based on the measurement signal and based on the characteristic of the device(11), and to output an output information based on the determined health state.

WO 2023/186532 A1