



(51) International Patent Classification:

A61B 5/00 (2006.01) A61B 5/107 (2006.01)
A61B 5/0205 (2006.01)

(21) International Application Number:

PCT/IB2023/055245

(22) International Filing Date:

22 May 2023 (22.05.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/344,409 20 May 2022 (20.05.2022) US

(71) Applicant: **FOUNDRY INNOVATION & RESEARCH 1, LTD.** [IE/IE]; Arthur Cox Building, Earlsfort Centre, Earlsfort Terrace, Dublin, 2 (IE).

(72) Inventors: **MARTIN, Pablo**; Arthur Cox Building, Earlsfort Centre, Earlsfort Terrace, Dublin, 2 (IE). **KELLY, Michael**; Arthur Cox Building, Earlsfort Centre, Earlsfort Terrace, Dublin, 2 (IE). **WETTERLING, Friedrich**; Arthur Cox Building, Earlsfort Centre, Earlsfort Terrace, Dublin, 2 (IE). **MCDONALD, Jack**; Arthur Cox Building, Earlsfort Centre, Earlsfort Terrace, Dublin, 2 (IE).

SWEENEY, Fiachra M.; Arthur Cox Building, Earlsfort Centre, Earlsfort Terrace, Dublin, 2 (IE).

(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, MU, 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).

(54) Title: RESONANT CIRCUIT-BASED VASCULAR MONITORS AND RELATED SYSTEMS AND METHODS

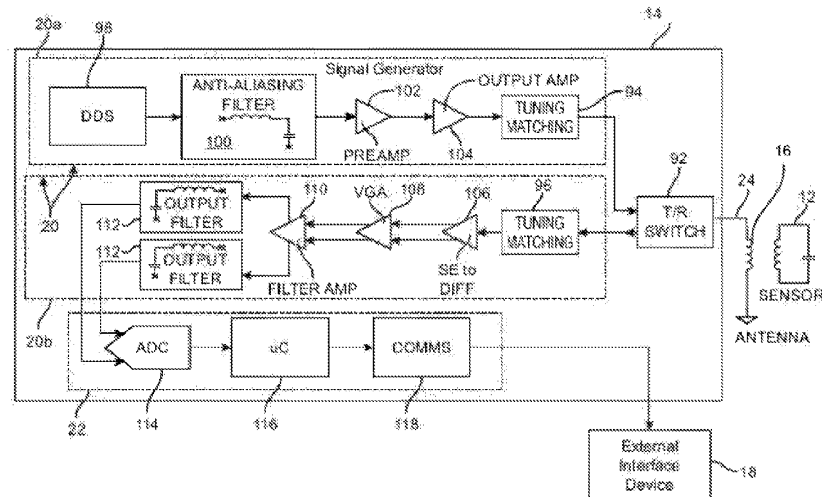


FIG. 2

(57) Abstract: Systems and methods for control and signal processing in variable inductance, resonant circuit vascular monitoring devices including use of sensor signal magnitude for determining and interpreting sensed parameters are disclosed.

[Continued on next page]

Published:

- *with international search report (Art. 21(3))*
- *with amended claims (Art. 19(1))*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*