



(51) International Patent Classification:
A61B 5/145 (2006.01)

(21) International Application Number: PCT/EP2023/052403

(22) International Filing Date: 01 February 2023 (01.02.2023)

(25) **Filing Language:** English

(26) **Publication Language:** English

(30) **Priority Data:**
22155234.2 04 February 2022 (04.02.2022) EP

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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,

(54) Title: ELECTRONIC CIRCUIT AND ANALYTE SENSOR SYSTEM SUCH AS A GLUCOSE SENSOR SYSTEM AND METHOD OF OPERATING AN ANALYTE SENSOR AND SYSTEM

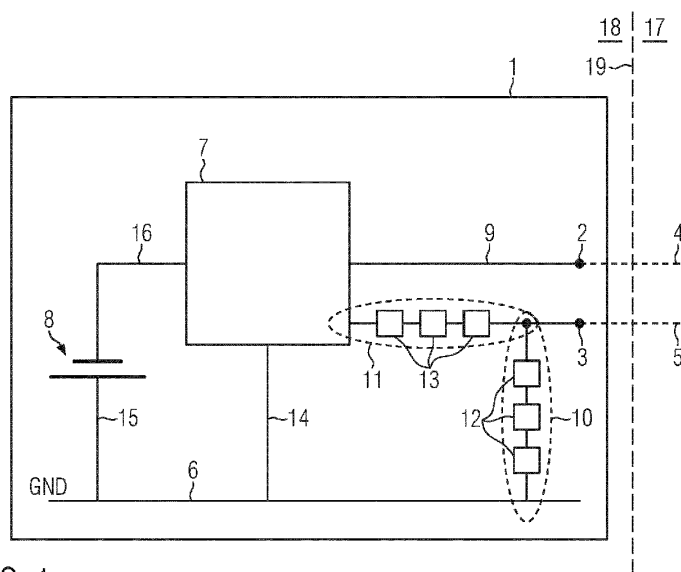


FIG. 1

(57) **Abstract:** The invention refers to an electronic circuit configured to operate an analyte sensor, such as a glucose sensor, the circuit having at least a first and a second electrical connection configured to be connected to a first and a second electrode of the analyte sensor respectively, wherein the electronic circuit has a voltage source and a common potential conductor section electrically provided on a potential of a pole of the voltage source, wherein with the voltage source an electric potential different to the potential of the common potential conductor section can be provided to the first electrical connection; and wherein the second electrical connection is connected to the common potential conductor section through one or more common potential connection paths and wherein none of the common potential connection paths connects the second electrical connection to the common potential conductor section through fewer than

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,
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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, 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*

three or more series-connected electronic components.