

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
02 November 2023 (02.11.2023)



(10) International Publication Number
WO 2023/212286 A1

- (51) International Patent Classification:
G01J 1/44 (2006.01)
- (21) International Application Number:
PCT/US2023/020339
- (22) International Filing Date:
28 April 2023 (28.04.2023)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
63/336,822 29 April 2022 (29.04.2022) US
- (71) Applicant: **MESO SCALE TECHNOLOGIES, LLC.**
[US/US]; 1601 Research Boulevard, Rockville, Maryland
20850 (US).
- (72) Inventor: **KOCHAR, Manish**; 15612 Thistlebridge Drive,
Rockville, Maryland 20853 (US).
- (74) Agent: **HANNA, Richard**; MEDLER FERRO WOOD-
HOUSE & MILLS PLLC, 8201 Greensboro Drive, Suite
1060, McLean, Virginia 22102 (US).

(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: METHODS AND DEVICES FOR OBTAINING SILICON PHOTOMULTIPLIER DATA

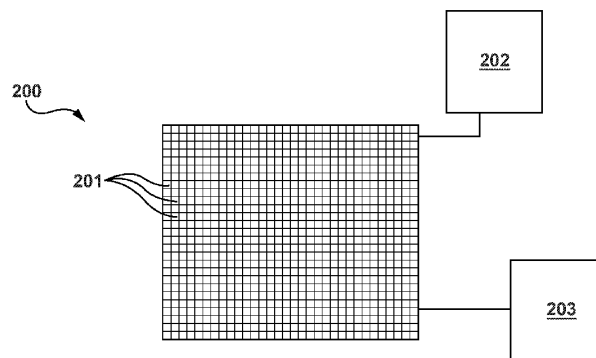


FIG. 1

(57) Abstract: Systems and methods for improving assay results obtained by silicon photomultiplier devices are provided. Systems may include assay devices including silicon photomultiplier devices and computing systems. Systems may further include processing components and storage units configured for receiving silicon photomultiplier device input and output information and for determining silicon photomultiplier device temperatures.

[Continued on next page]



WO 2023/212286 A1

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*