

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

(19) World Intellectual Property  
Organization  
International Bureau

(43) International Publication Date  
05 March 2020 (05.03.2020)



(10) International Publication Number  
**WO 2020/047004 A3**

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                               |                            |    |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----|
| (51) International Patent Classification:                 | 62/819,458                                                                                                                                                                                                                                                                                                                                                                                    | 15 March 2019 (15.03.2019) | US |
| <i>C12Q 1/6837</i> (2018.01) <i>C12Q 1/6841</i> (2018.01) | 62/822,649                                                                                                                                                                                                                                                                                                                                                                                    | 22 March 2019 (22.03.2019) | US |
| (21) International Application Number:                    | 62/822,618                                                                                                                                                                                                                                                                                                                                                                                    | 22 March 2019 (22.03.2019) | US |
| PCT/US2019/048427                                         | 62/822,592                                                                                                                                                                                                                                                                                                                                                                                    | 22 March 2019 (22.03.2019) | US |
| (22) International Filing Date:                           | 62/822,565                                                                                                                                                                                                                                                                                                                                                                                    | 22 March 2019 (22.03.2019) | US |
| 27 August 2019 (27.08.2019)                               | 62/822,554                                                                                                                                                                                                                                                                                                                                                                                    | 22 March 2019 (22.03.2019) | US |
| (25) Filing Language:                                     | 62/822,575                                                                                                                                                                                                                                                                                                                                                                                    | 22 March 2019 (22.03.2019) | US |
| English                                                   | 62/822,605                                                                                                                                                                                                                                                                                                                                                                                    | 22 March 2019 (22.03.2019) | US |
| (26) Publication Language:                                | 62/822,627                                                                                                                                                                                                                                                                                                                                                                                    | 22 March 2019 (22.03.2019) | US |
| English                                                   | 62/822,632                                                                                                                                                                                                                                                                                                                                                                                    | 22 March 2019 (22.03.2019) | US |
| (30) Priority Data:                                       | 62/839,223                                                                                                                                                                                                                                                                                                                                                                                    | 26 April 2019 (26.04.2019) | US |
| 62/723,972 28 August 2018 (28.08.2018) US                 | 62/839,320                                                                                                                                                                                                                                                                                                                                                                                    | 26 April 2019 (26.04.2019) | US |
| 62/723,950 28 August 2018 (28.08.2018) US                 | 62/839,346                                                                                                                                                                                                                                                                                                                                                                                    | 26 April 2019 (26.04.2019) | US |
| 62/723,957 28 August 2018 (28.08.2018) US                 | 62/839,526                                                                                                                                                                                                                                                                                                                                                                                    | 26 April 2019 (26.04.2019) | US |
| 62/723,960 28 August 2018 (28.08.2018) US                 | 62/842,463                                                                                                                                                                                                                                                                                                                                                                                    | 02 May 2019 (02.05.2019)   | US |
| 62/723,964 28 August 2018 (28.08.2018) US                 | 62/858,331                                                                                                                                                                                                                                                                                                                                                                                    | 07 June 2019 (07.06.2019)  | US |
| 62/723,970 28 August 2018 (28.08.2018) US                 | 62/860,993                                                                                                                                                                                                                                                                                                                                                                                    | 13 June 2019 (13.06.2019)  | US |
| 62/724,483 29 August 2018 (29.08.2018) US                 | (71) Applicant: 10X GENOMICS, INC. [US/US]; 6230 Stoneridge Mall Road, Pleasanton, California 94588-3260 (US).                                                                                                                                                                                                                                                                                |                            |    |
| 62/724,487 29 August 2018 (29.08.2018) US                 | (72) Inventors; and                                                                                                                                                                                                                                                                                                                                                                           |                            |    |
| 62/724,489 29 August 2018 (29.08.2018) US                 | (71) Applicants: SCHNALL-LEVIN, Michael [US/US]; 6230 Stoneridge Mall Road, Pleasanton, California 94588-3260 (US). FRENZ, Lucas [DE/US]; 6230 Stoneridge Mall Road, Pleasanton, California 94588-3260 (US).                                                                                                                                                                                  |                            |    |
| 62/724,561 29 August 2018 (29.08.2018) US                 | (74) Agent: LUITJENS, Cameron M. et al.; Fish & Richardson P.C., P.O. Box 1022, Minneapolis, Minnesota 55440-1022 (US).                                                                                                                                                                                                                                                                       |                            |    |
| 62/779,342 13 December 2018 (13.12.2018) 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, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, |                            |    |
| 62/788,867 06 January 2019 (06.01.2019) US                |                                                                                                                                                                                                                                                                                                                                                                                               |                            |    |
| 62/788,871 06 January 2019 (06.01.2019) US                |                                                                                                                                                                                                                                                                                                                                                                                               |                            |    |
| 62/788,897 06 January 2019 (06.01.2019) US                |                                                                                                                                                                                                                                                                                                                                                                                               |                            |    |
| 62/788,885 06 January 2019 (06.01.2019) US                |                                                                                                                                                                                                                                                                                                                                                                                               |                            |    |
| 62/788,905 06 January 2019 (06.01.2019) US                |                                                                                                                                                                                                                                                                                                                                                                                               |                            |    |
| 62/812,219 28 February 2019 (28.02.2019) US               |                                                                                                                                                                                                                                                                                                                                                                                               |                            |    |
| 62/819,486 15 March 2019 (15.03.2019) US                  |                                                                                                                                                                                                                                                                                                                                                                                               |                            |    |
| 62/819,467 15 March 2019 (15.03.2019) US                  |                                                                                                                                                                                                                                                                                                                                                                                               |                            |    |
| 62/819,468 15 March 2019 (15.03.2019) US                  |                                                                                                                                                                                                                                                                                                                                                                                               |                            |    |
| 62/819,448 15 March 2019 (15.03.2019) US                  |                                                                                                                                                                                                                                                                                                                                                                                               |                            |    |
| 62/819,456 15 March 2019 (15.03.2019) US                  |                                                                                                                                                                                                                                                                                                                                                                                               |                            |    |
| 62/819,478 15 March 2019 (15.03.2019) US                  |                                                                                                                                                                                                                                                                                                                                                                                               |                            |    |
| 62/819,449 15 March 2019 (15.03.2019) US                  |                                                                                                                                                                                                                                                                                                                                                                                               |                            |    |
| 62/819,496 15 March 2019 (15.03.2019) US                  |                                                                                                                                                                                                                                                                                                                                                                                               |                            |    |

(54) Title: METHODS OF GENERATING AN ARRAY

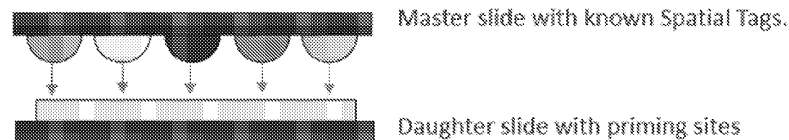


FIG. 22

(57) Abstract: This disclosure relates to compositions and methods for generating a spatial array.

[Continued on next page]

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, SM, ST, SV, SY, TH, TJ, TM, TN,  
TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

**(84) Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, 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, 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))*
- *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))*

**(88) Date of publication of the international search report:**

30 April 2020 (30.04.2020)