



- (51) **International Patent Classification:**
C12Q 1/6848 (2018.01)
- (21) **International Application Number:**
PCT/US2022/022663
- (22) **International Filing Date:**
30 March 2022 (30.03.2022)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
63/169,185 31 March 2021 (31.03.2021) US
- (71) **Applicant:** **ILLUMINA, INC.** [US/US]; 5200 Illumina Way, San Diego, California 92122 (US).
- (72) **Inventors:** **BROWN, Colin**; 5200 Illumina Way, San Diego, California 92122 (US). **SHULTZABERGER, Sarah**; 5200 Illumina Way, San Diego, California 92122 (US). **GROSS, Stephen M.**; 5200 Illumina Way, San Diego, California 92122 (US). **BARR, Angelica**; 5200 Illumina Way, San Diego, California 92122 (US). **SNOW, Samantha**; 5200 Illumina Way, San Diego, California 92122 (US).
- (74) **Agent:** **BAKER, JR., Joseph R.**; Gavrilovich, Dodd & Lindsey LLP, 4370 La Jolla Village Drive, Suite 303, San Diego, California 92122 (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, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, 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, 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).

(54) **Title:** BLOCKING OLIGONUCLEOTIDES FOR THE SELECTIVE DEPLETION OF NON-DESIRABLE FRAGMENTS FROM AMPLIFIED LIBRARIES

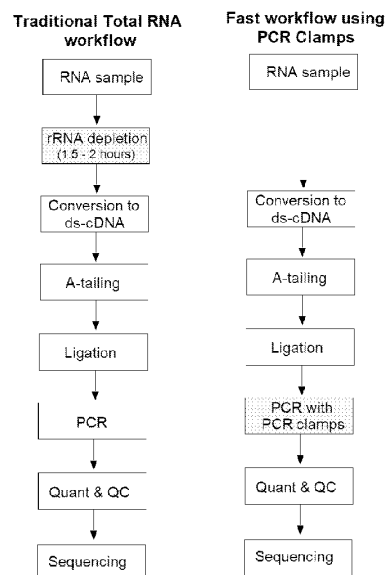


FIG. 1

(57) **Abstract:** The disclosure relates to methods, compositions, and kits for the selective depletion of non-desirable fragments from amplified libraries using blocking oligonucleotides.

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))*