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(71) Applicant: **ILLUMINA, INC.** [US/US]; 5200 Illumina Way, San Diego, California 92122 (US).

(72) Inventors: **MANZO, Andrea**; c/o Illumina, Inc., 5200 Illumina Way, San Diego, California 92122 (US). **BROWN, Colin**; c/o Illumina, Inc., 5200 Illumina Way, San Diego, California 92122 (US). **NORBERG, Steven**; c/o Illumina, Inc., 5200 Illumina Way, San Diego, California 92122 (US). **HARRINGTON, Timothy**; c/o Illumina, Inc., 5200 Illumina Way, San Diego, California 92122 (US).

(74) Agent: **FULLER, Michael L.**; KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR, IRVINE, California 92614 (US).

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(54) Title: METHODS AND COMPOSITIONS FOR COMBINATORIAL INDEXING OF BEAD-BASED NUCLEIC ACIDS

(57) Abstract: Some embodiments relate to methods and compositions for preparing combinatorially indexed beads. Some embodiments include sequential addition of different indexes to polynucleotides attached to beads. In some embodiments, indexes are added by chemical ligation, polymerase extension, ligation of partially double-stranded adaptors, or short splint ligation.

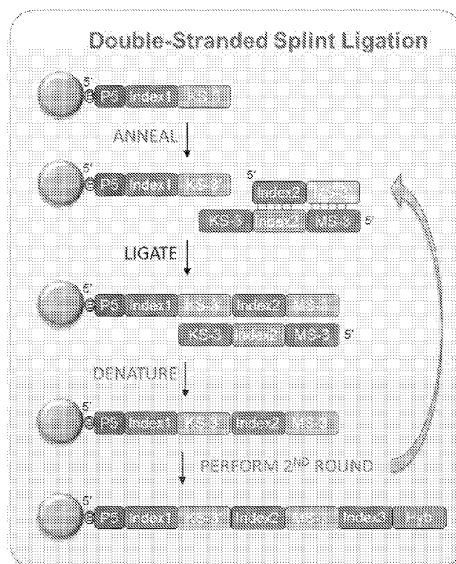


FIG. 19A

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- *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))*

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