

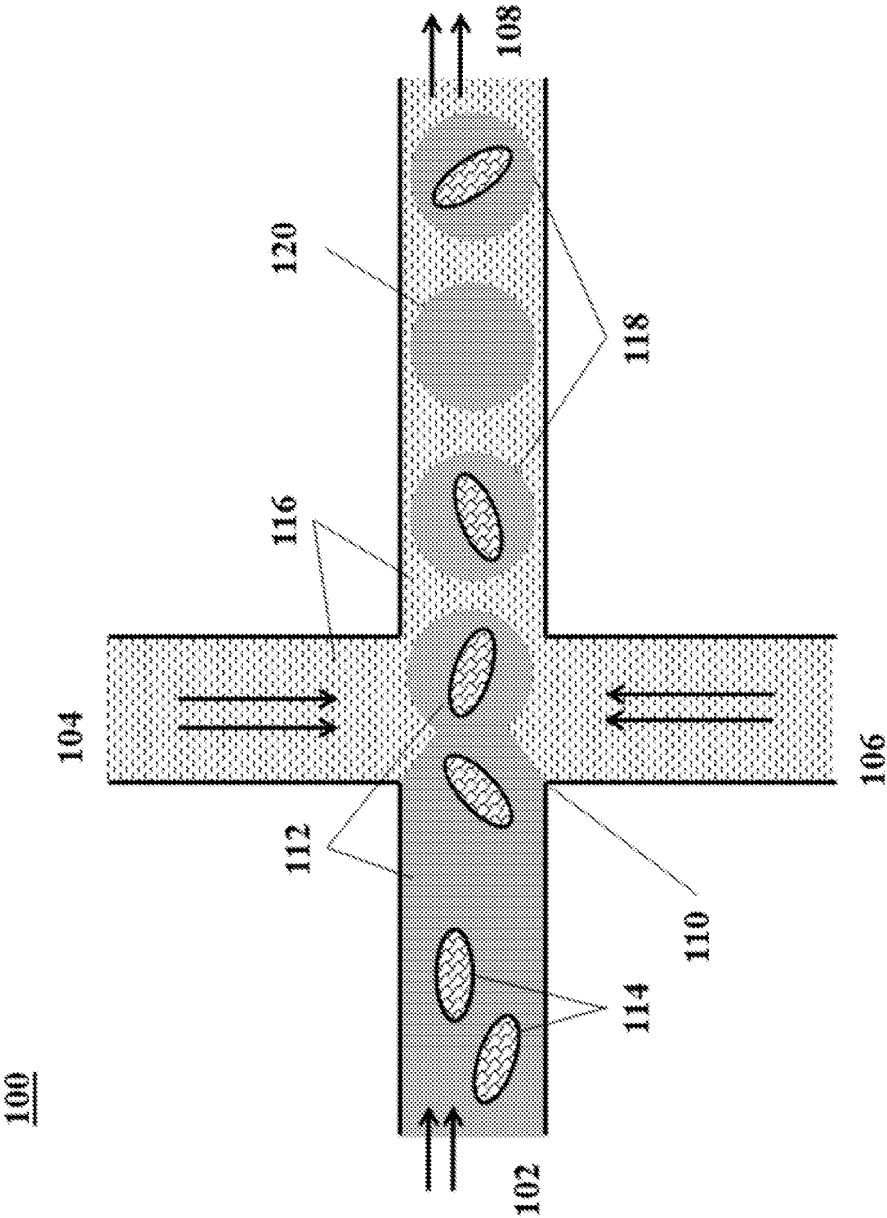


FIG. 1

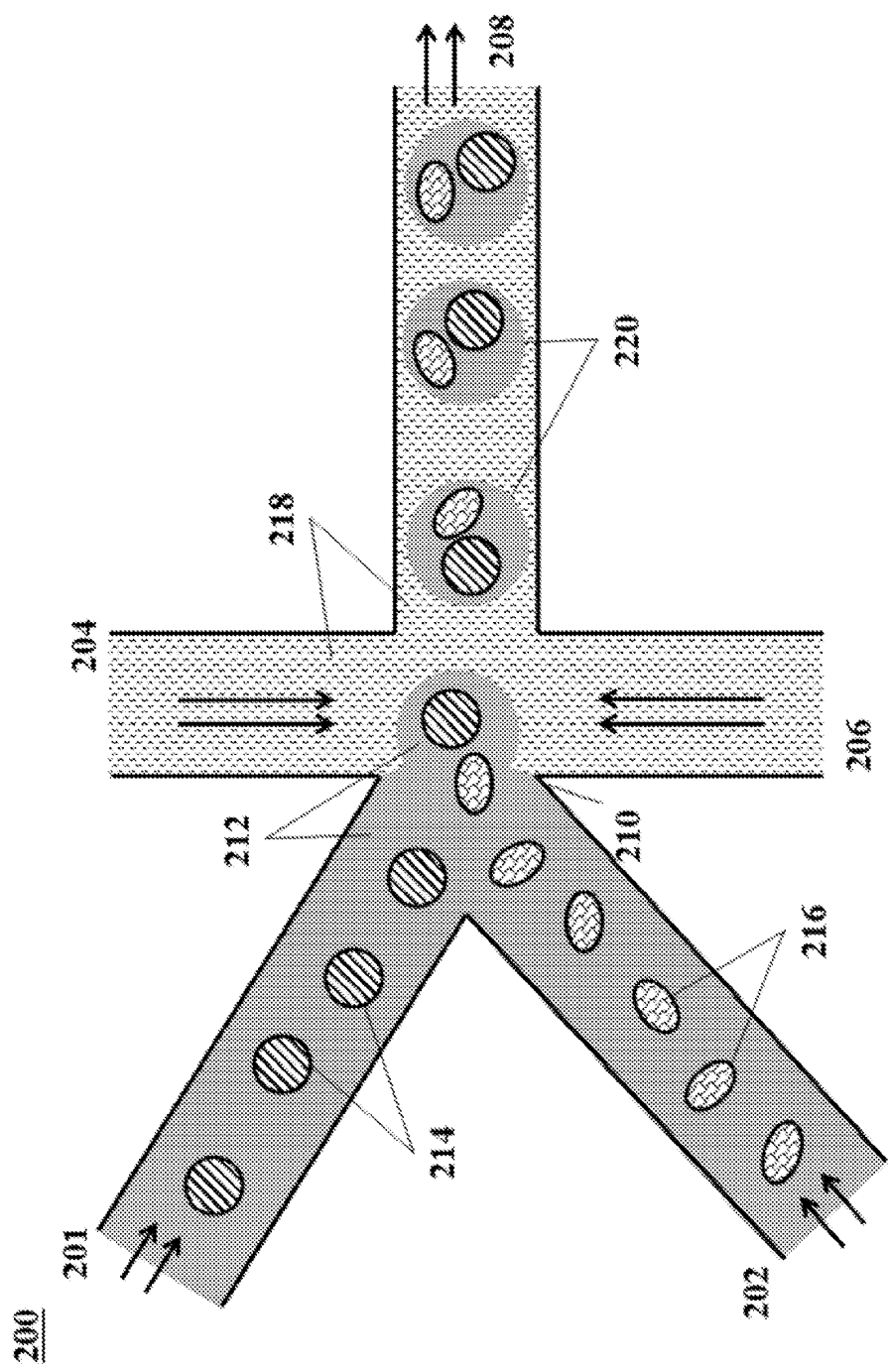


FIG. 2

300

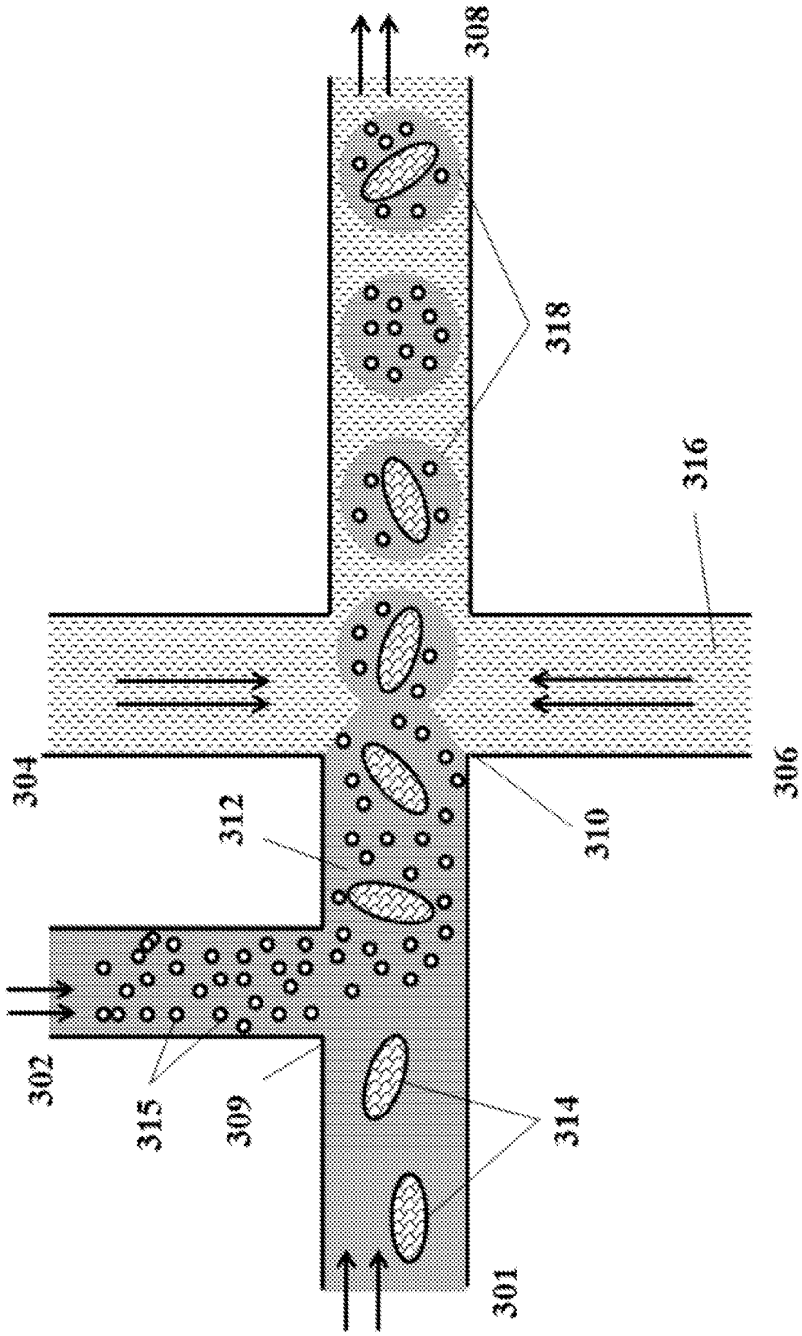


FIG. 3

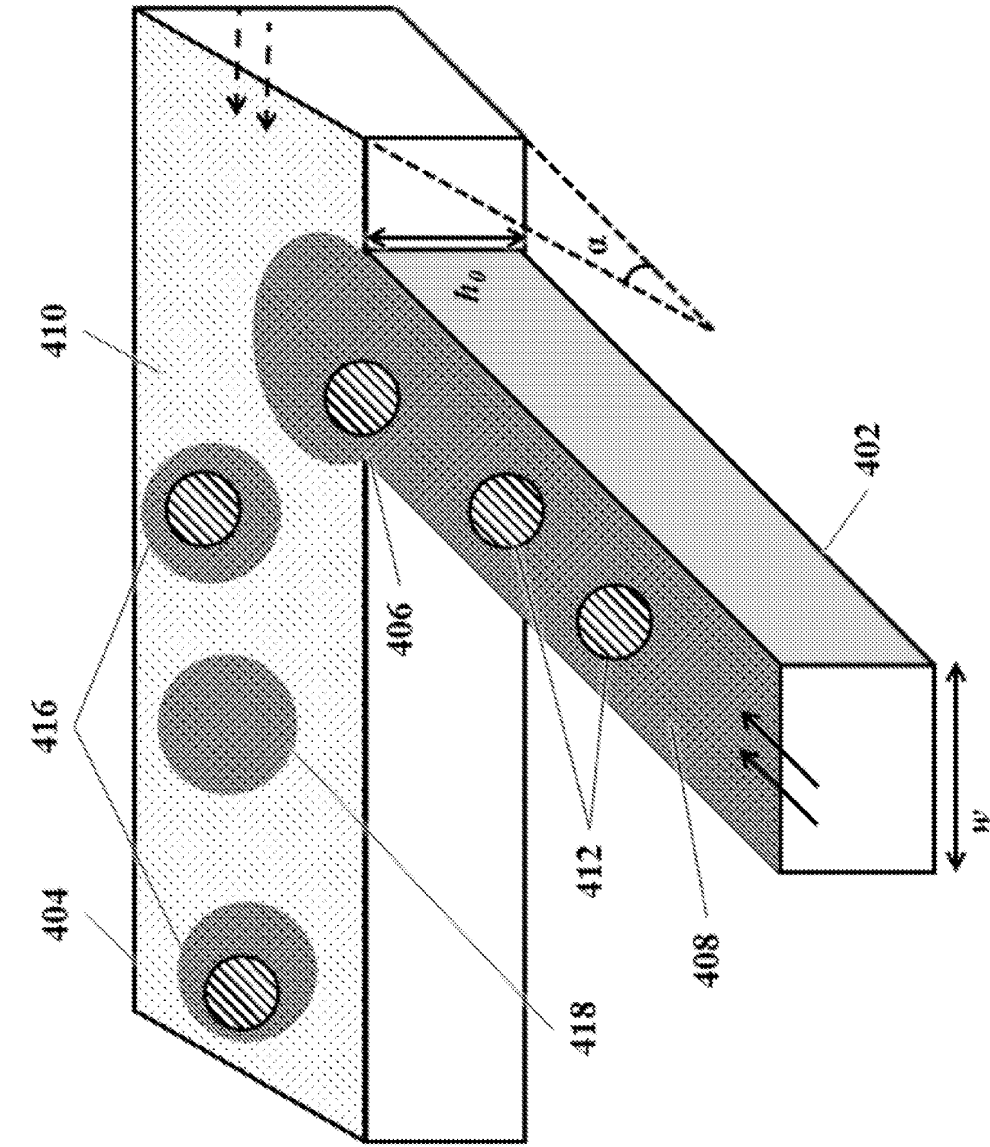


FIG. 4

400

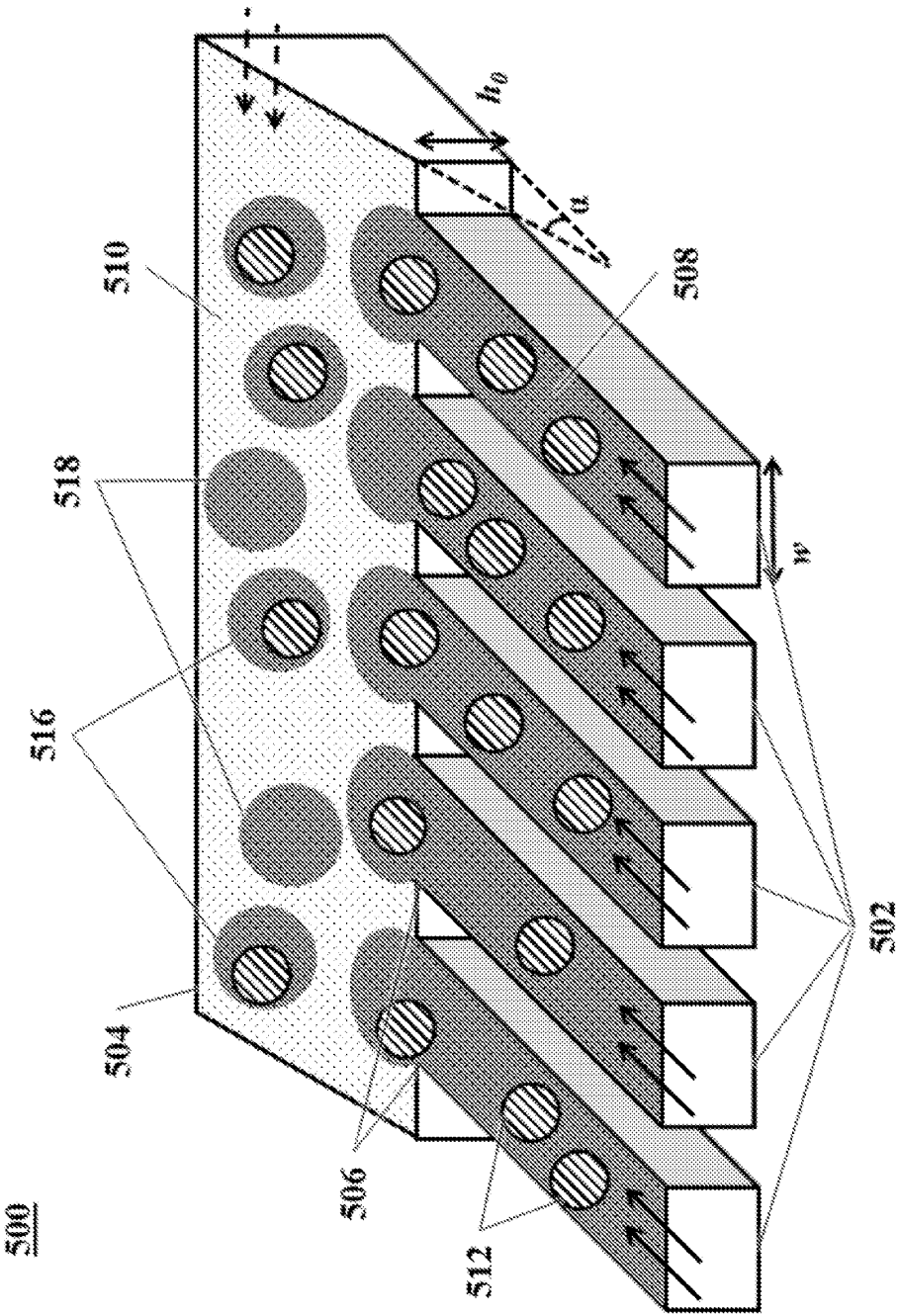


FIG. 5

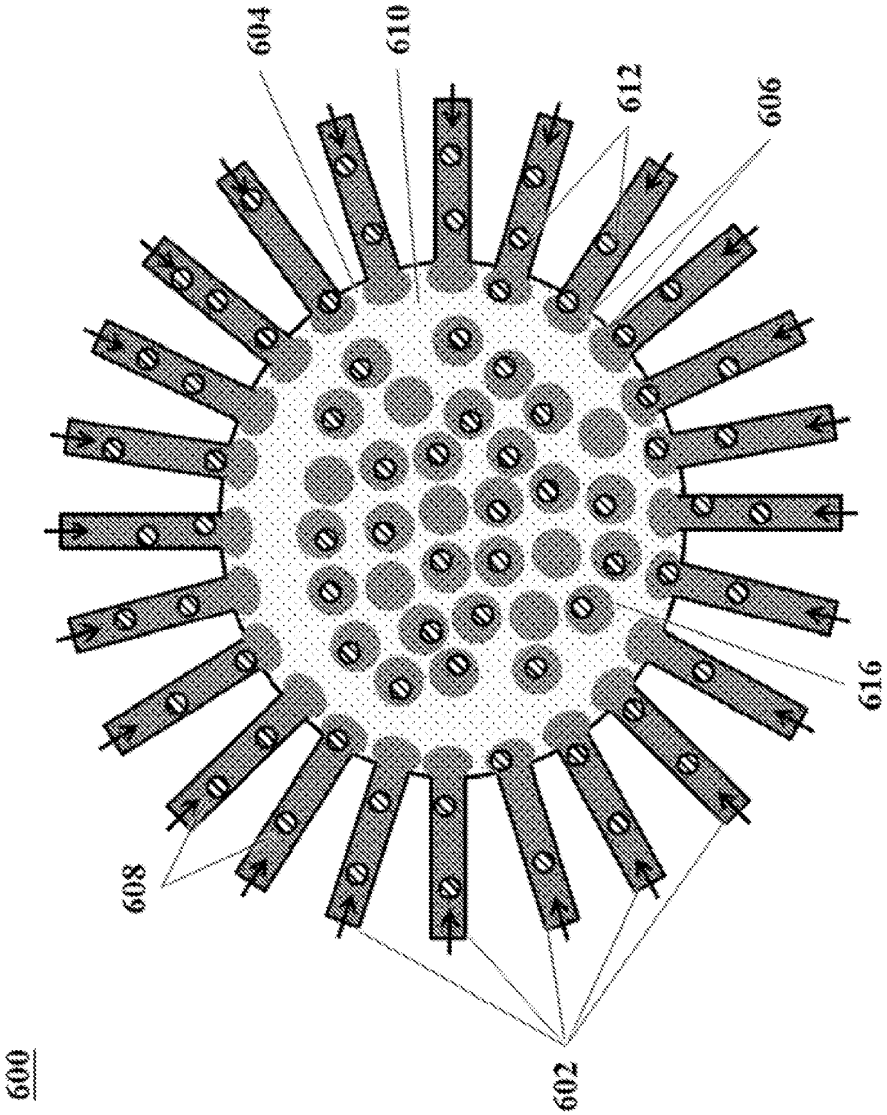


FIG. 6

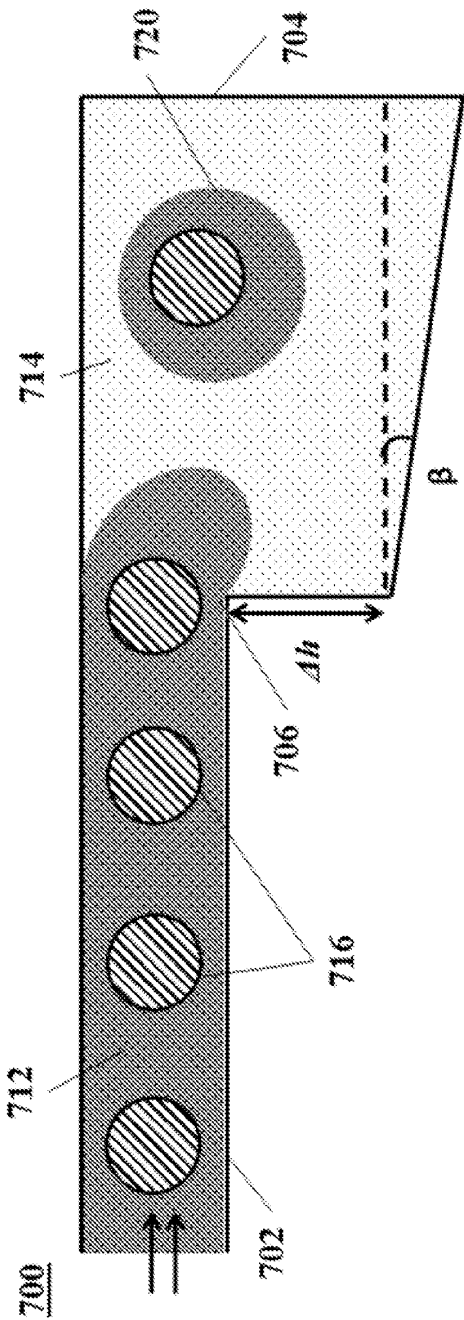


FIG. 7A

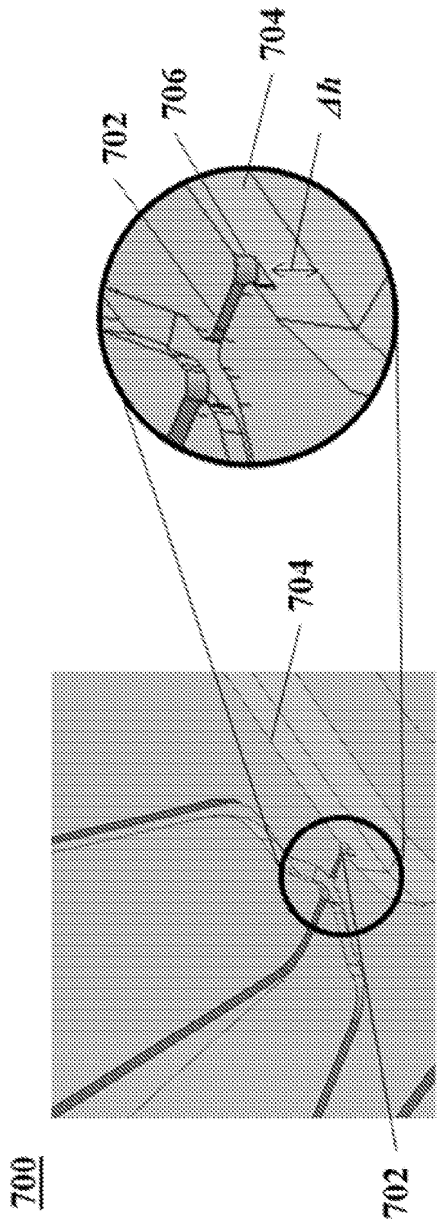


FIG. 7B

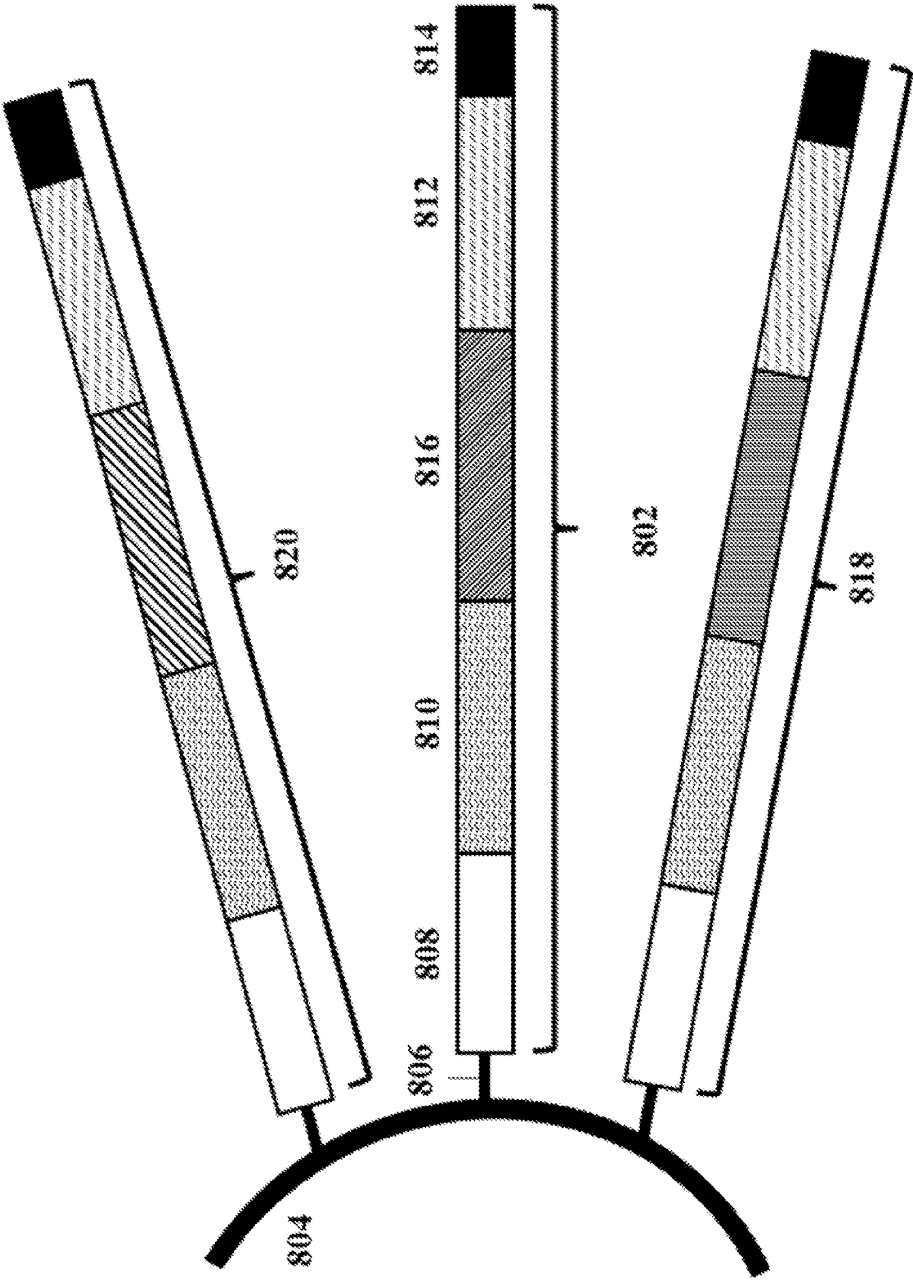
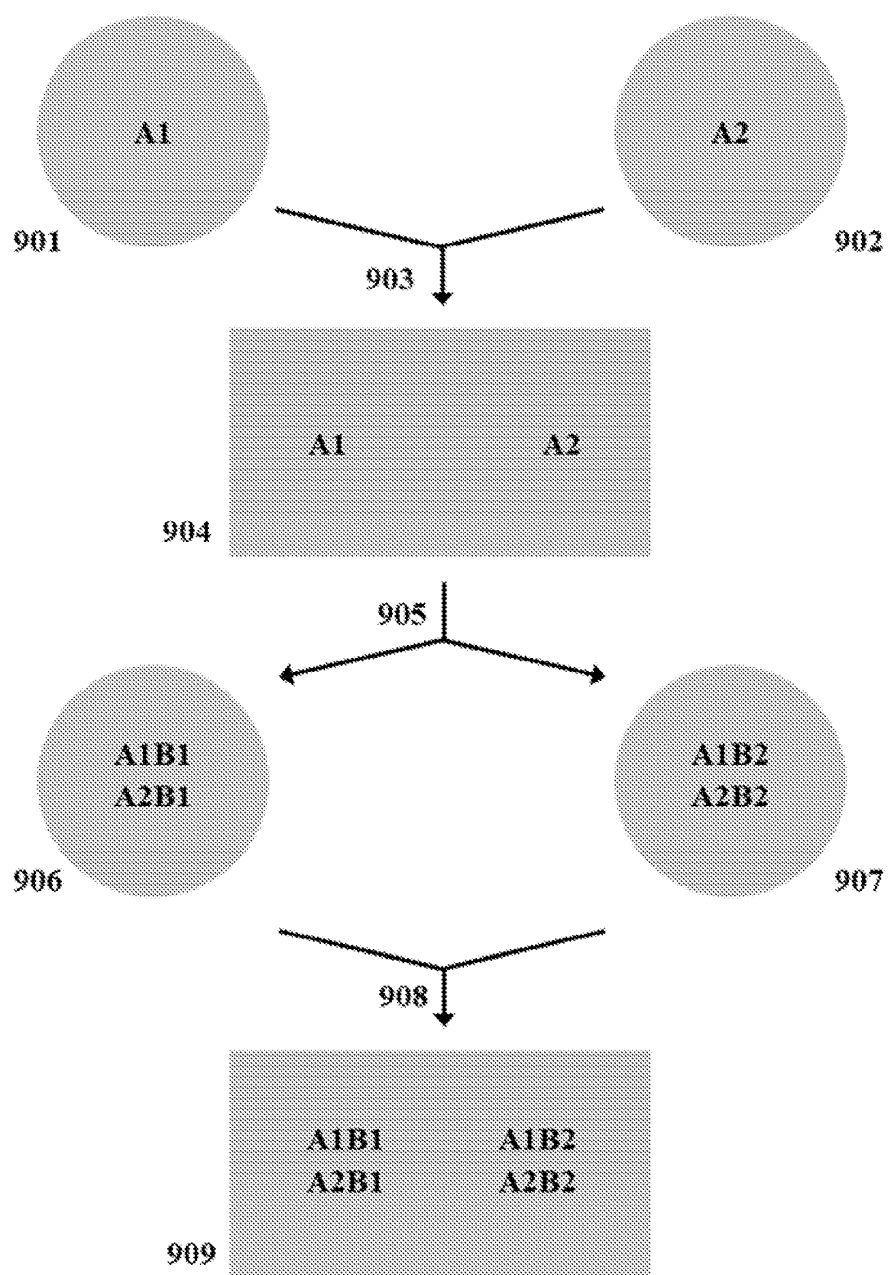
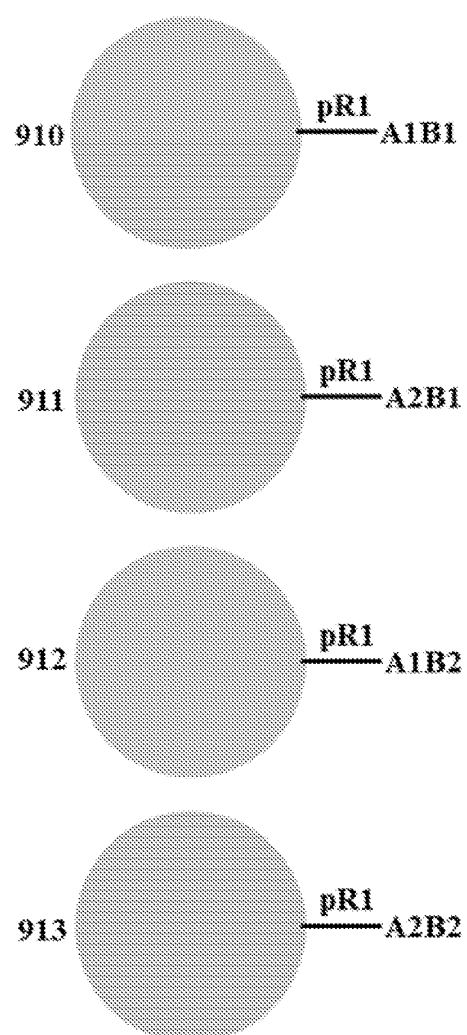


FIG. 8

**FIG. 9A**

***FIG. 9B***

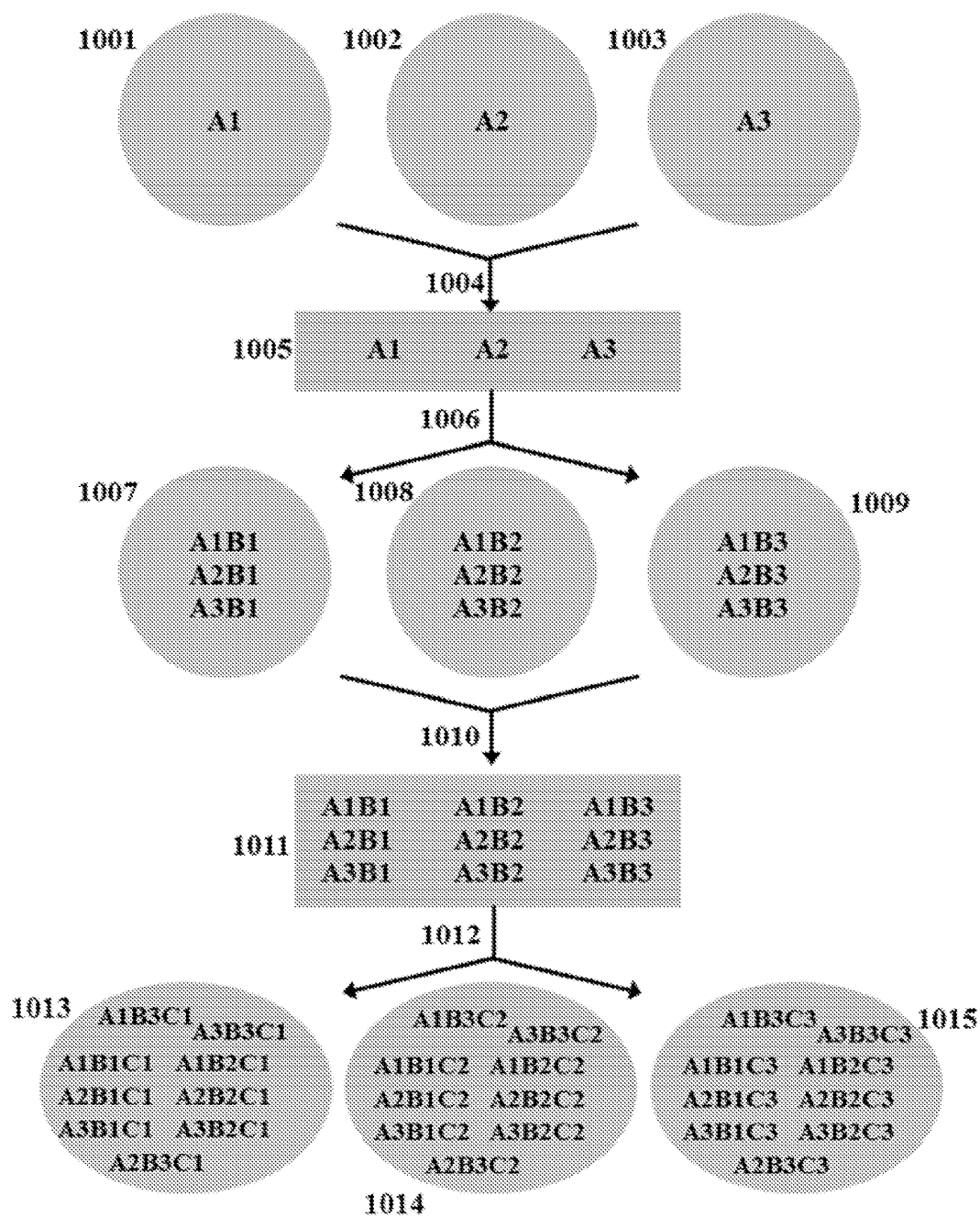


FIG. 10

**FIG. 11**

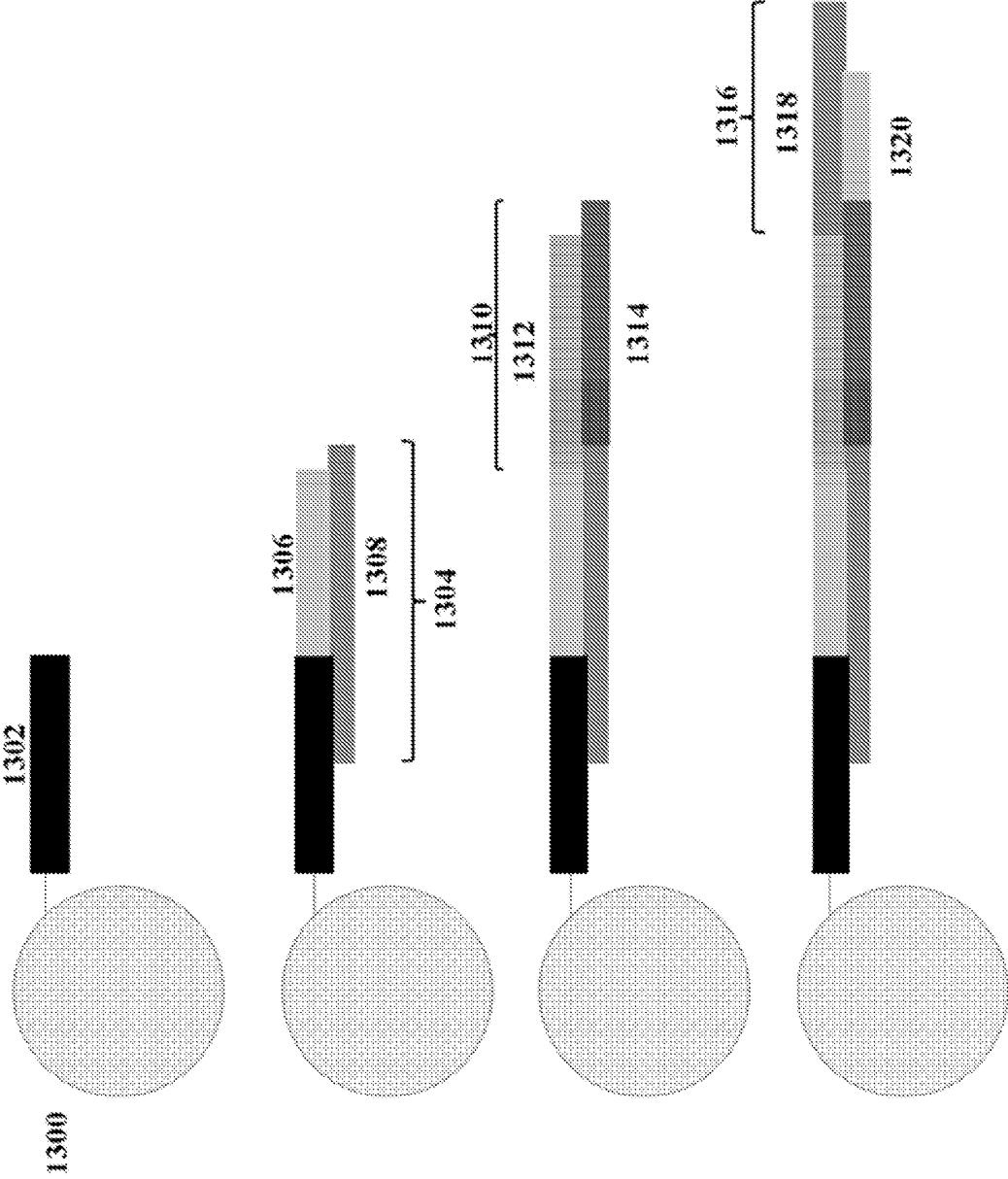


FIG. 13

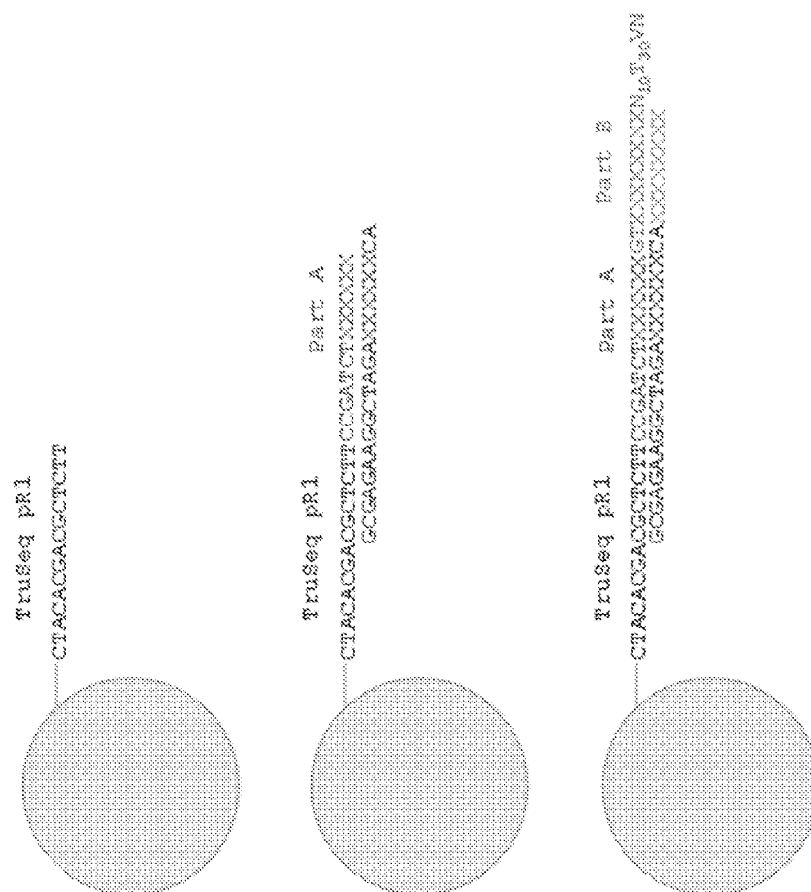


FIG. 14

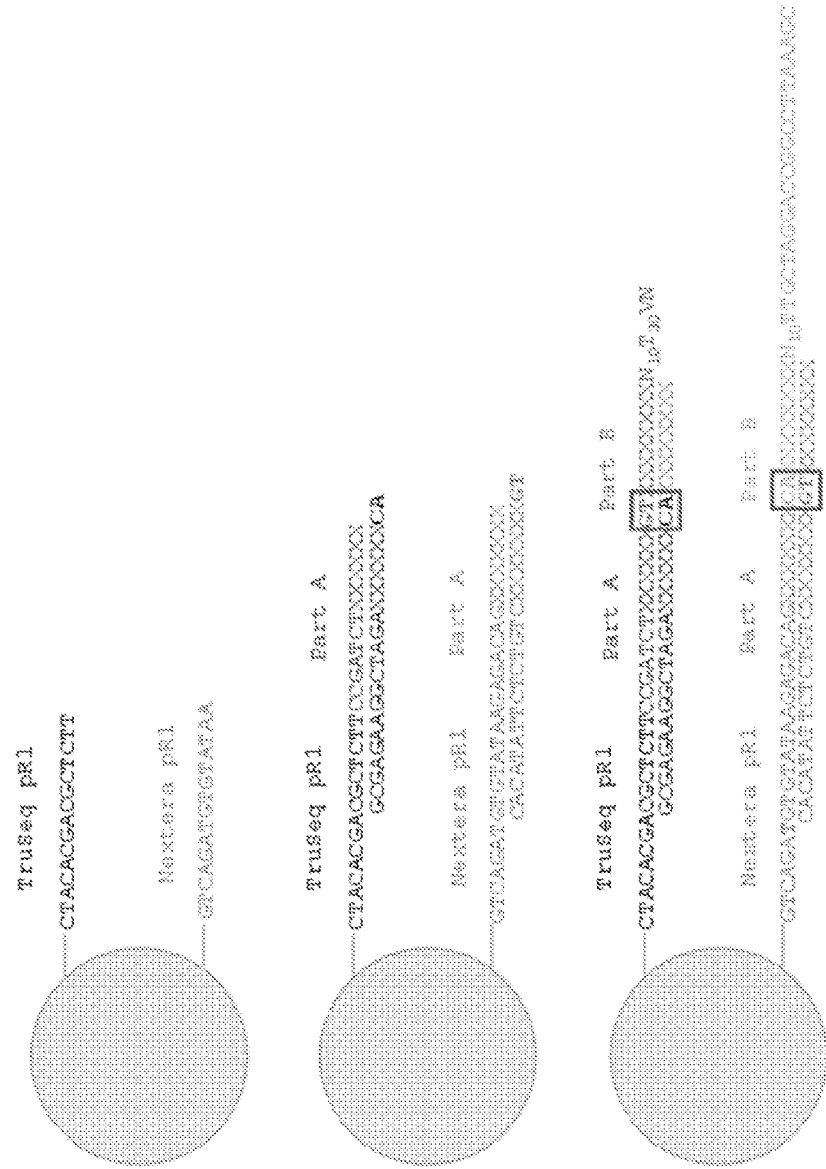


FIG. 16

TruSeq pR1
Part A
Part S (Alpha OH)
Part B (Alpha OH)
Part D (Theta OH)
Part C (Theta OH), Poly(dT)
Part T
CTACACGAGGCTCTACGATCTACATGAGTGGTGGATGAT (N1)₁₈TTTTTTTTTTTTTTTTTTTTTTTTTTT
CCGAGAGCGCTAGATGAGTCCACCGAGACCTACIA

FIG. 17

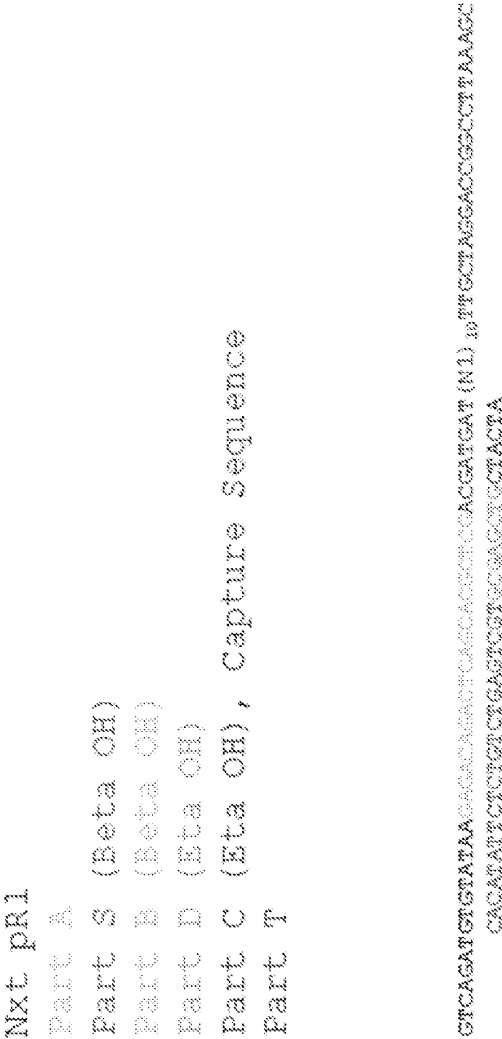


FIG. 18

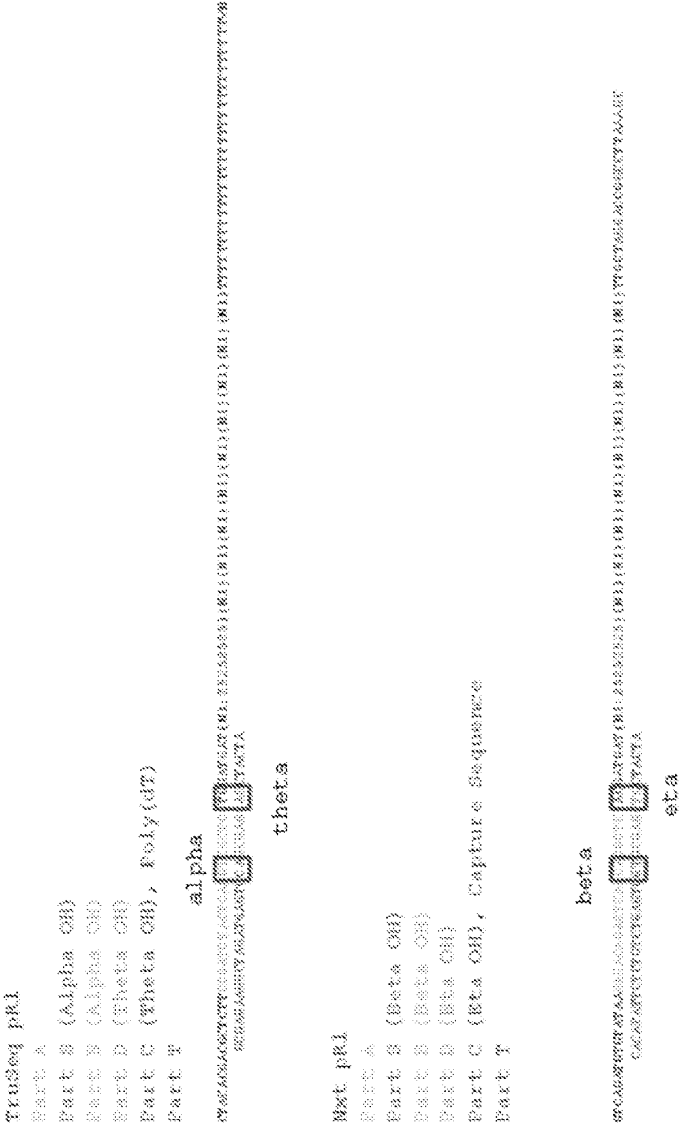


FIG. 19

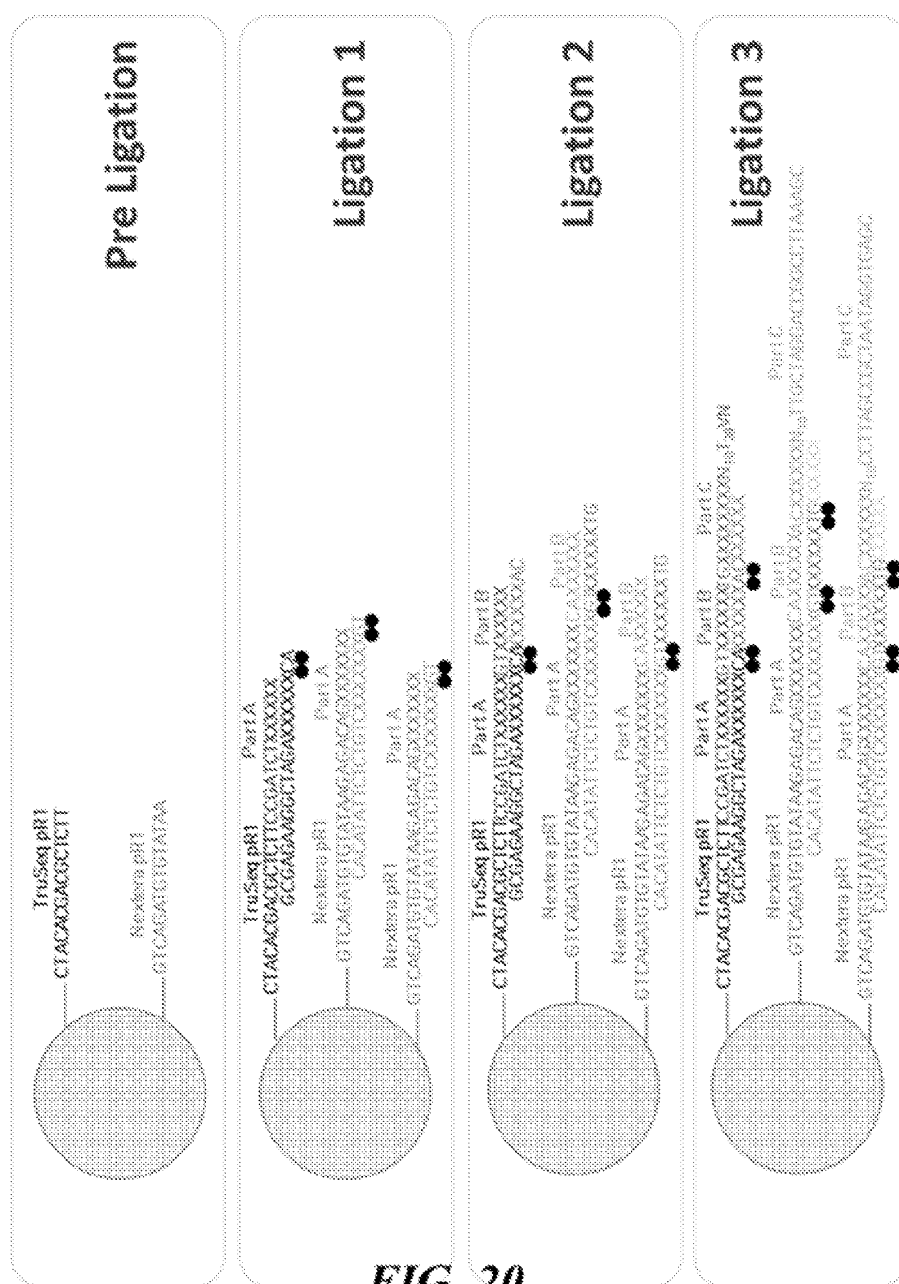




FIG. 21

$$\begin{aligned} & \left[\begin{array}{l} \text{Alpha/theta:} \\ \text{Part A/S:} \\ \text{96} \end{array} \right] \times \left[\begin{array}{l} \text{Part B/D:} \\ \text{96} \end{array} \right] \times \left[\begin{array}{l} \text{Part C/T:} \\ \text{96} \end{array} \right] = 884,736 \\ & + \\ & \left[\begin{array}{l} \text{Beta/Eta:} \\ \text{Part A/S:} \\ \text{96} \end{array} \right] \times \left[\begin{array}{l} \text{Part B/D:} \\ \text{96} \end{array} \right] \times \left[\begin{array}{l} \text{Part C/T:} \\ \text{96} \end{array} \right] = 884,736 \\ & + \\ & \left[\begin{array}{l} \text{Delta/Zeta:} \\ \text{Part A/S:} \\ \text{96} \end{array} \right] \times \left[\begin{array}{l} \text{Part B/D:} \\ \text{96} \end{array} \right] \times \left[\begin{array}{l} \text{Part C/T:} \\ \text{96} \end{array} \right] = 884,736 \\ & + \\ & \left[\begin{array}{l} \text{Gamma/Epsilon:} \\ \text{Part A/S:} \\ \text{96} \end{array} \right] \times \left[\begin{array}{l} \text{Part B/D:} \\ \text{96} \end{array} \right] \times \left[\begin{array}{l} \text{Part C/T:} \\ \text{96} \end{array} \right] = 884,736 \\ & \left[\begin{array}{l} = 3,538,944 \end{array} \right] \end{aligned}$$

FIG. 22

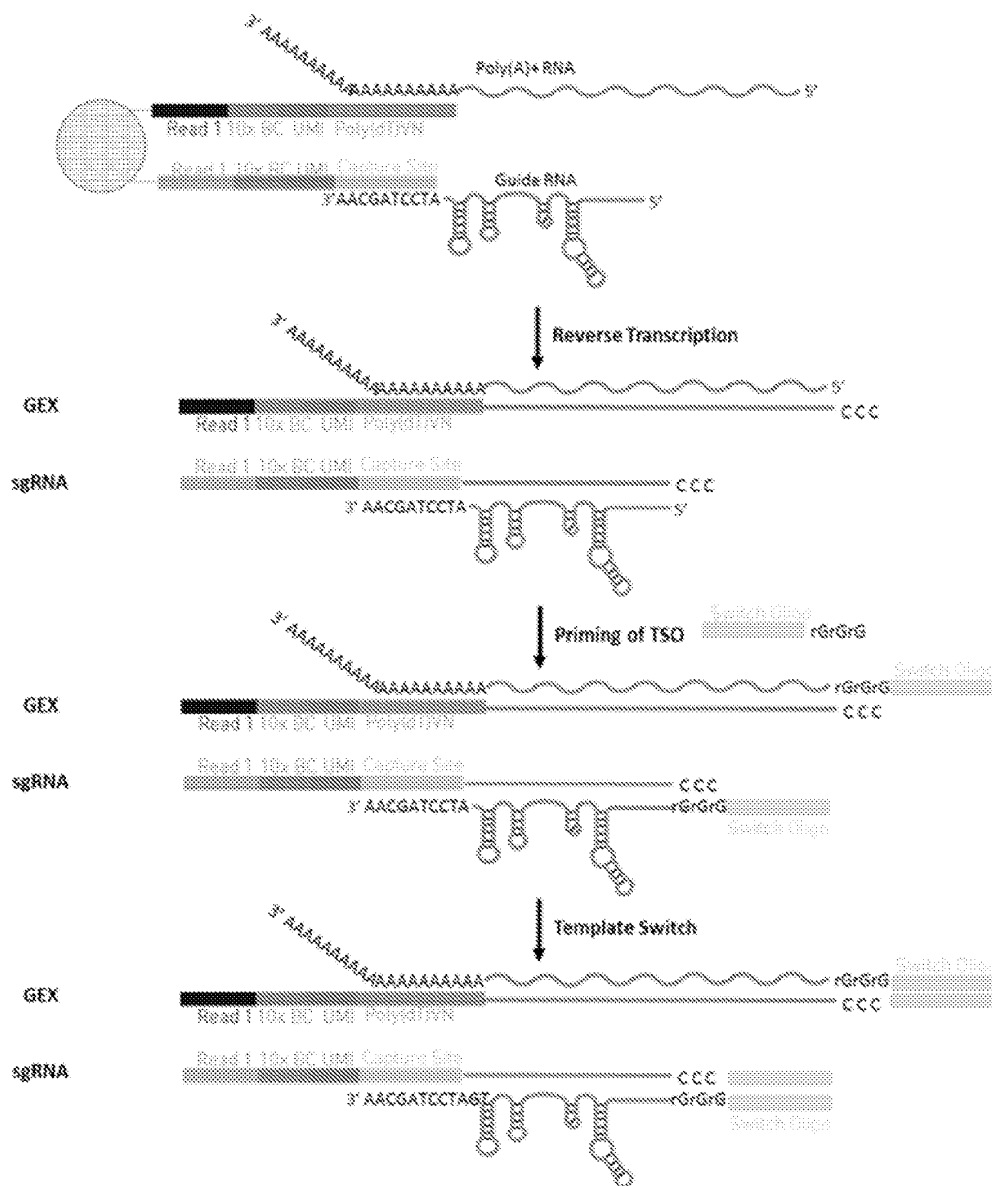


FIG. 23

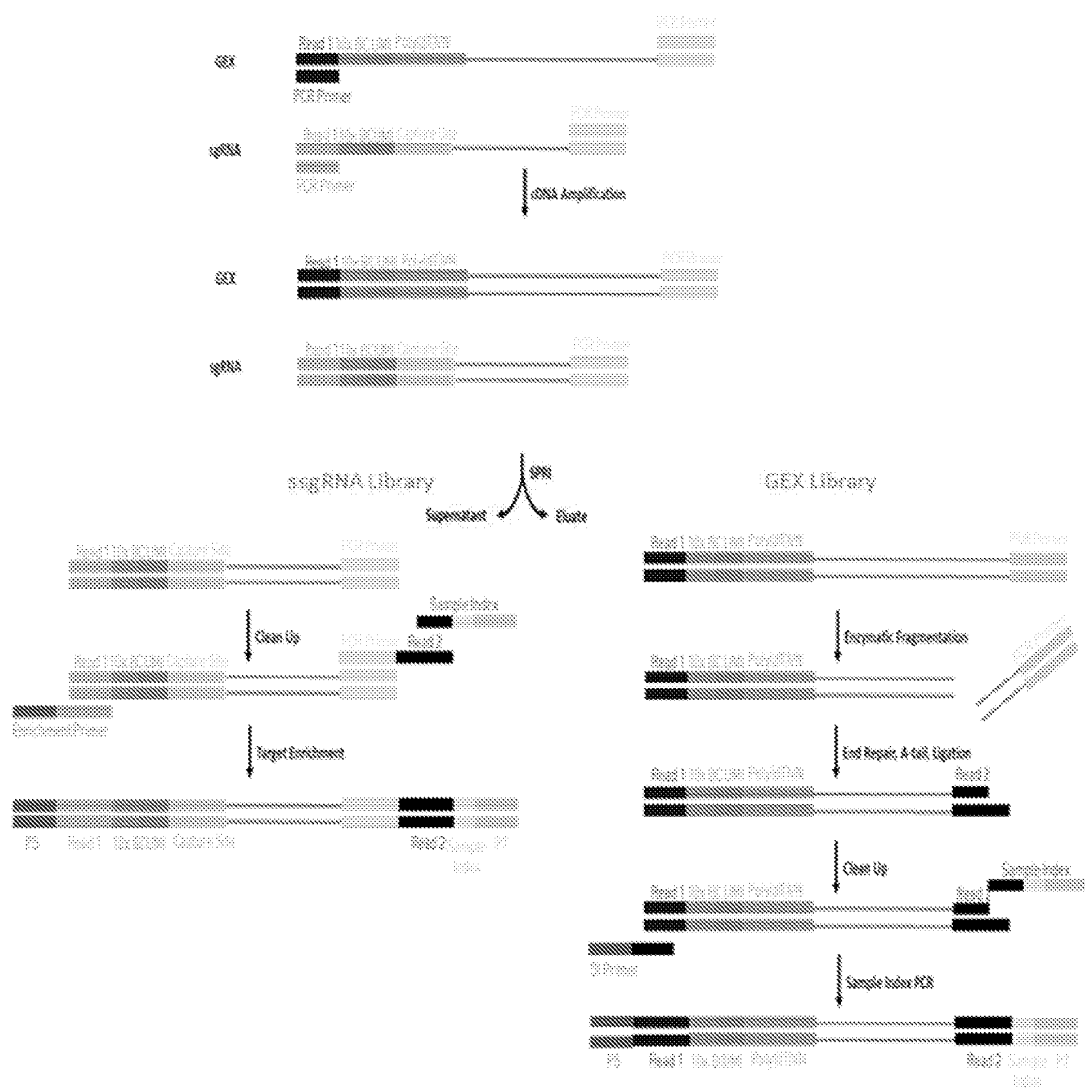
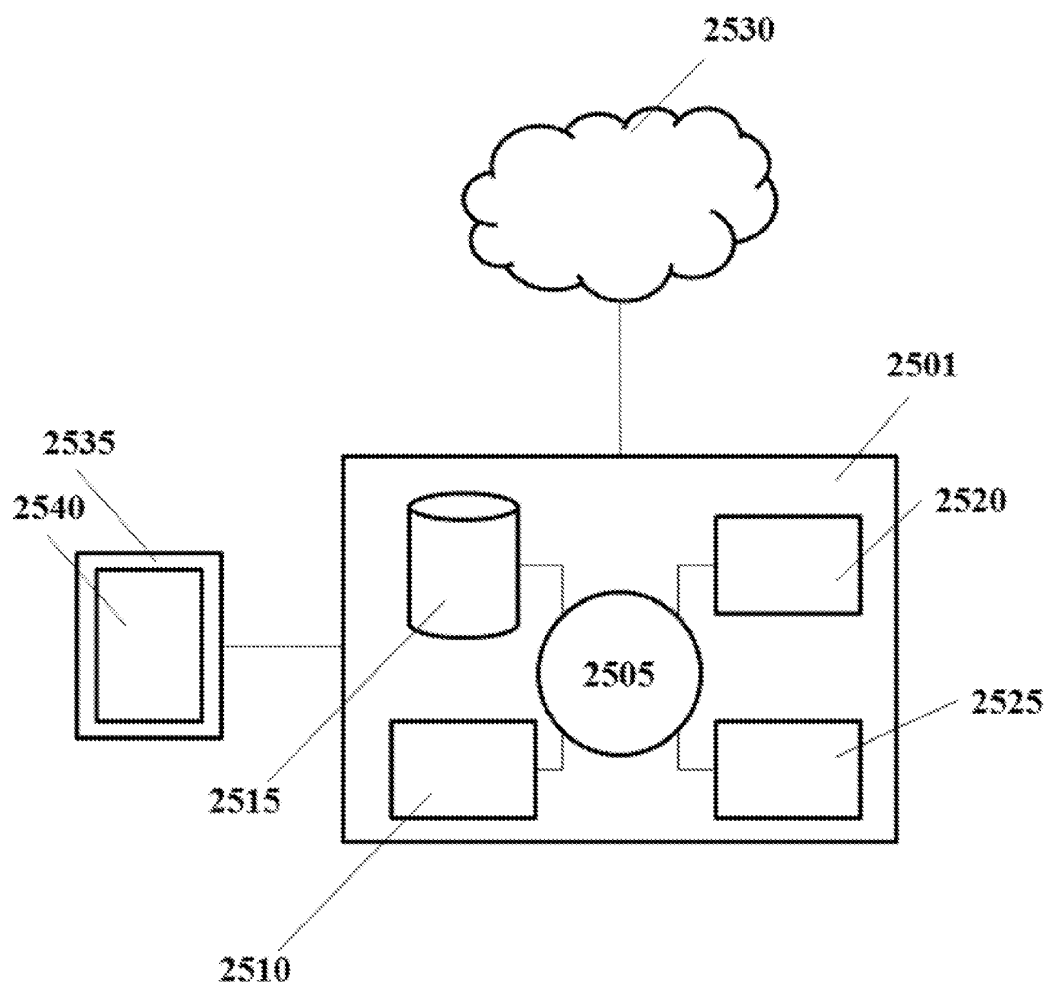


FIG. 24

**FIG. 25**

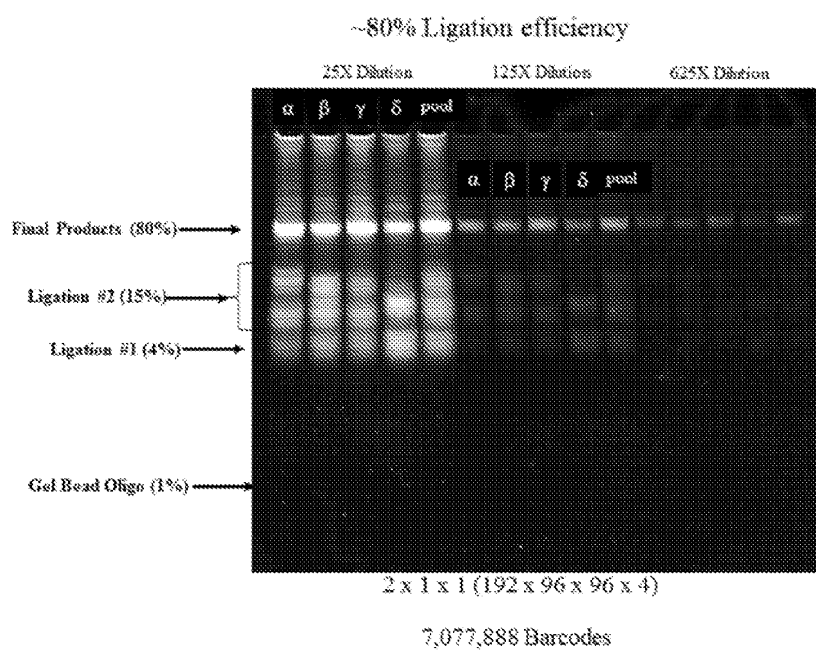


FIG. 26

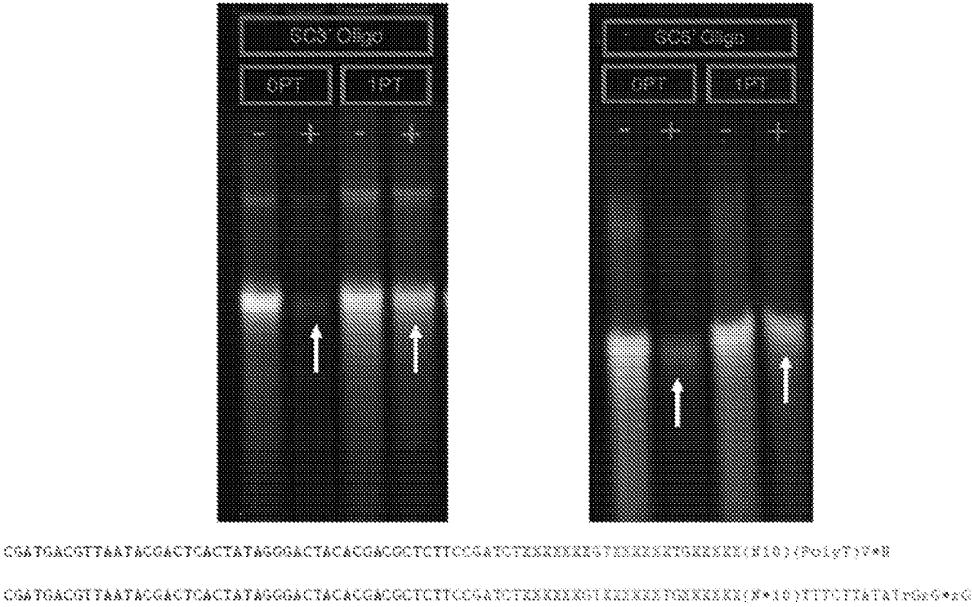
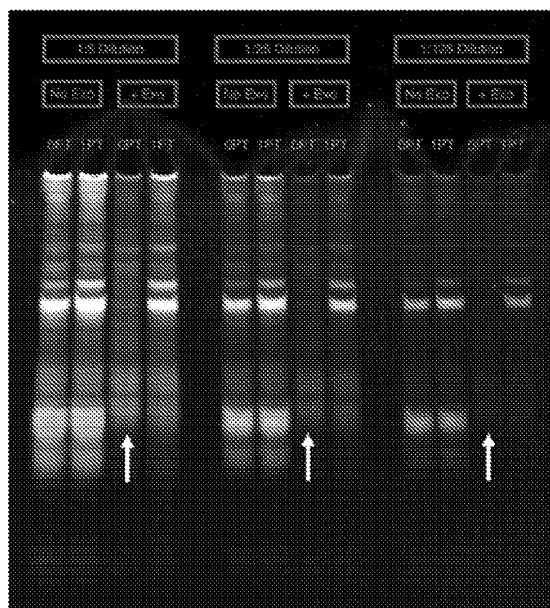


FIG. 27



CGATGACGTTAATACGACTCACTATAGGGACTACACGAGCGCTCTTCGATCTKXXXXXXXXGTXXXXXTXXXXX(N10)(PolyT)V*N
 CGATGACGTTAATACGACTCACTATAGGGACTACACGAGCGCTCTTCGATCTKXXXXXXXXGTXXXXXTXXXXX(N10)TTTCTTATATGAG*AC

FIG. 28

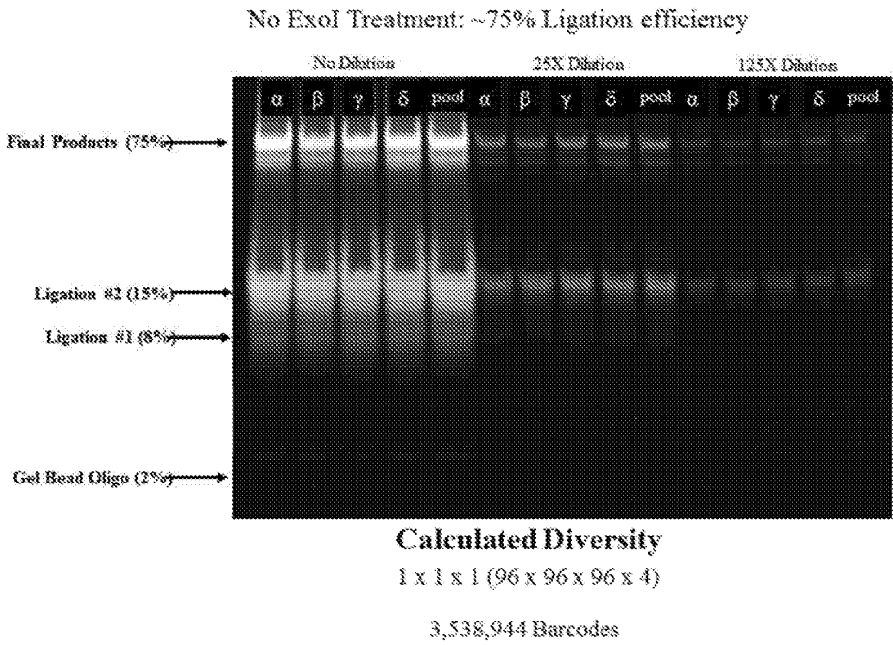


FIG. 29A

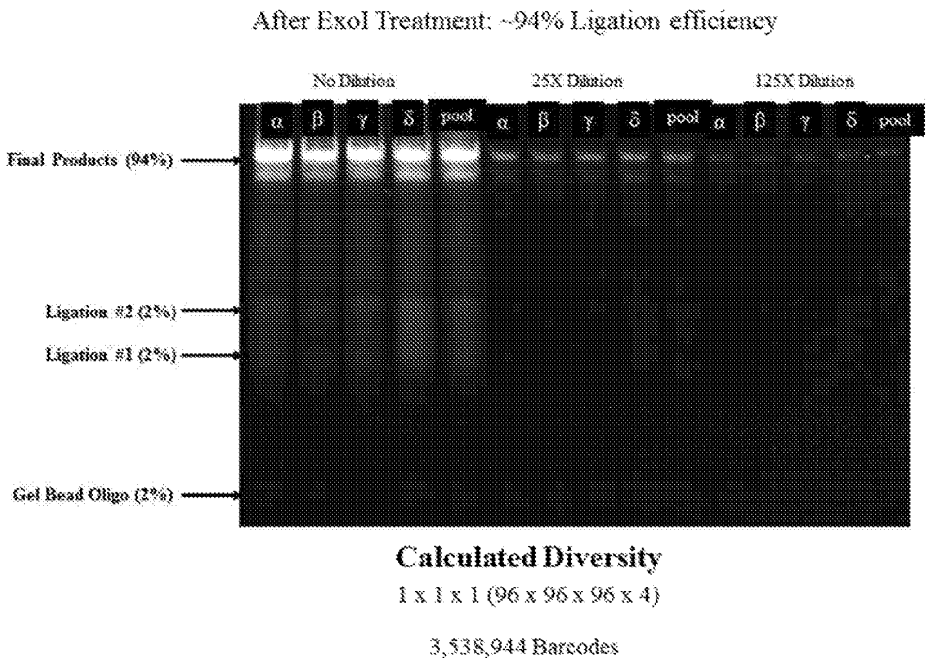


FIG. 29B

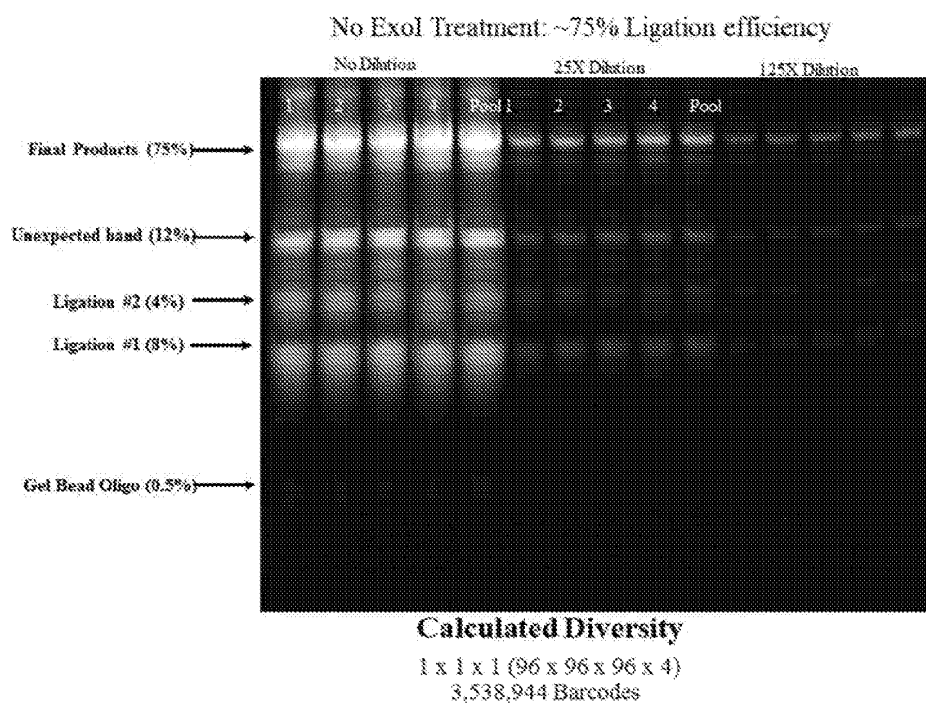


FIG. 30A

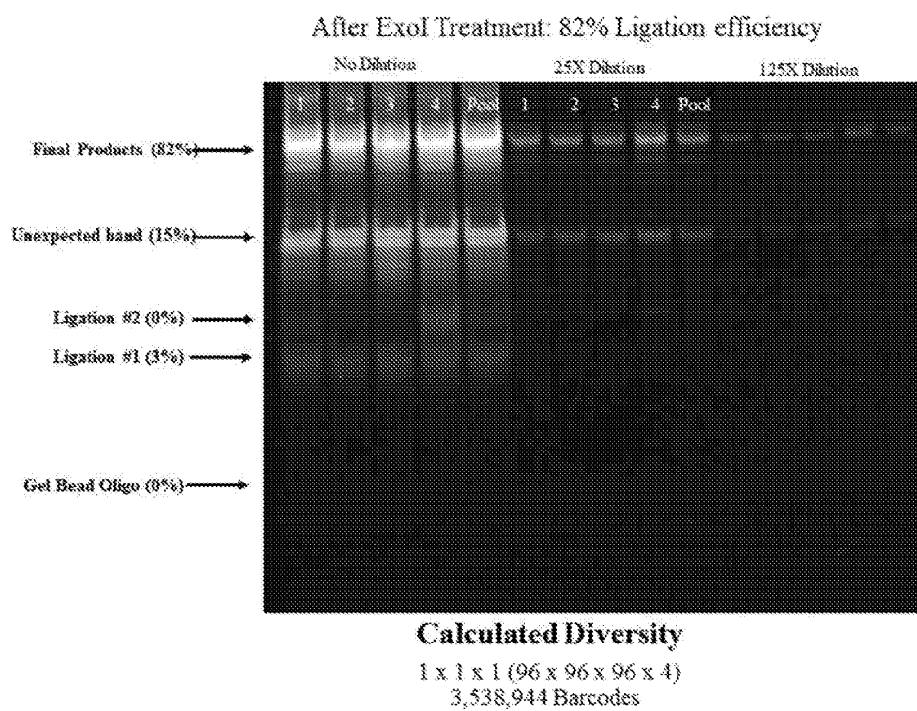


FIG. 30B

[illegible]

.....

$$\begin{aligned} \mathfrak{sl} &= 1\mathfrak{z} \\ \mathfrak{sl} + \mathfrak{a} &= 2\mathfrak{z} \\ \mathfrak{sl} + \mathfrak{a} + \mathfrak{b} &= 3\mathfrak{z} \\ \mathfrak{sl} + \mathfrak{a} + \mathfrak{b} + \mathfrak{c} &= 4\mathfrak{z} \quad \text{or} \quad 7\mathfrak{z} \\ \mathfrak{s} &= 3\mathfrak{z} \\ \mathfrak{s} + \mathfrak{c} &= 3\mathfrak{z} \end{aligned}$$

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NXT R1	MamA	MamB	TruSeq - 68b
NXT S	MamC	TruSeqA	TruSeq R1
TruSeq R1	TruSeqA	TruSeqB	NXT S - 68b
TruSeq S	TruSeqD	MamA	NXT R1

FIG. 31

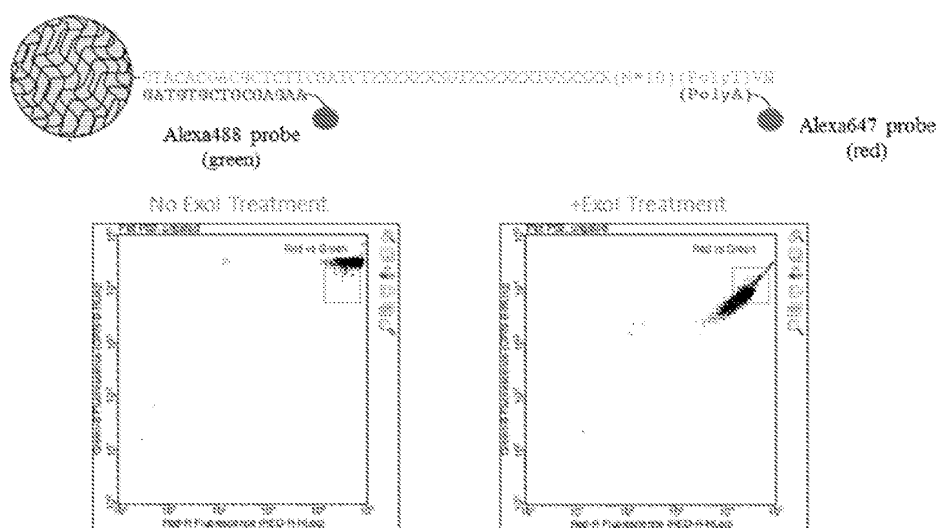


FIG. 32

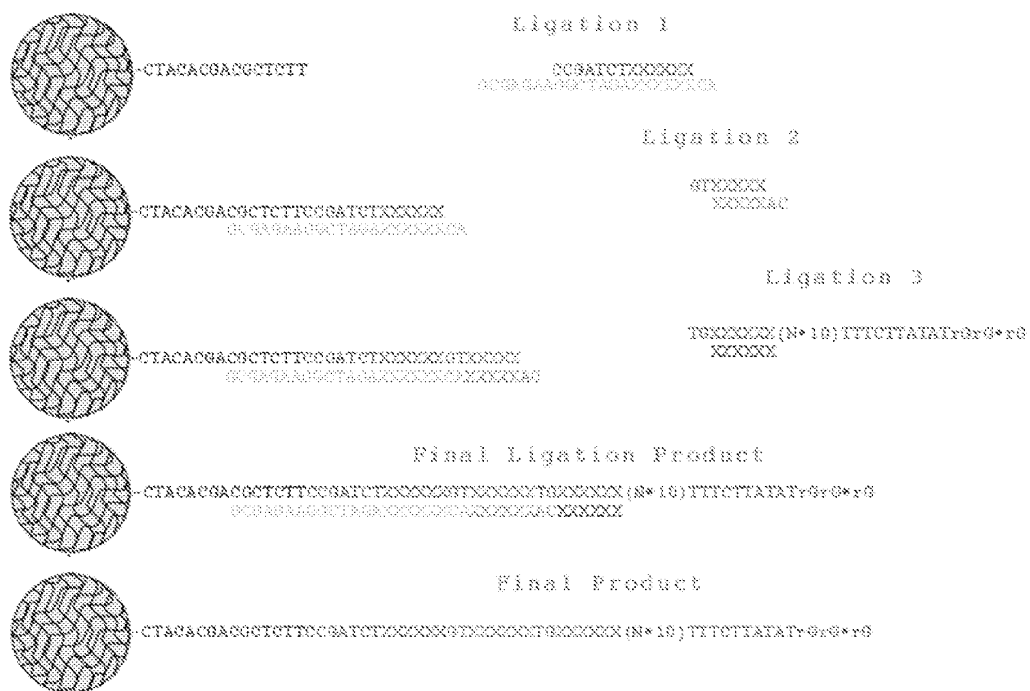


FIG. 33A

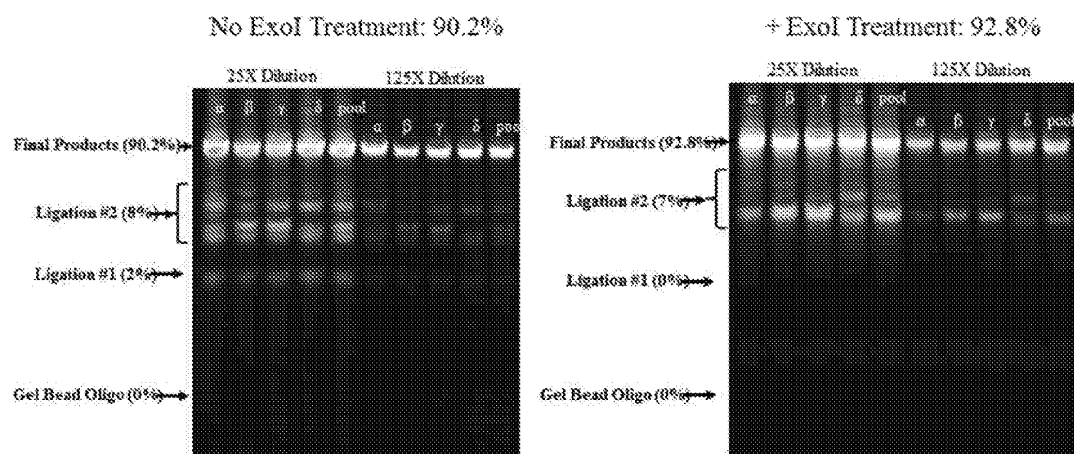


FIG. 33B

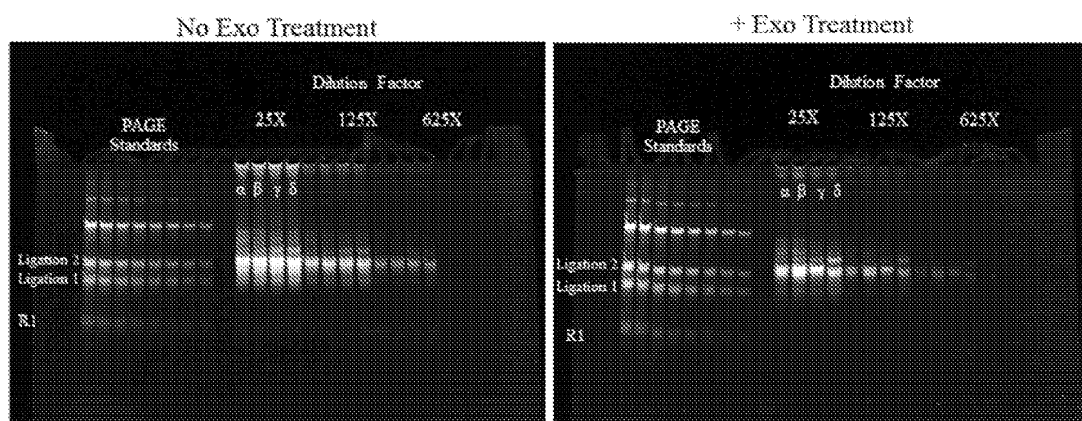


FIG. 33C

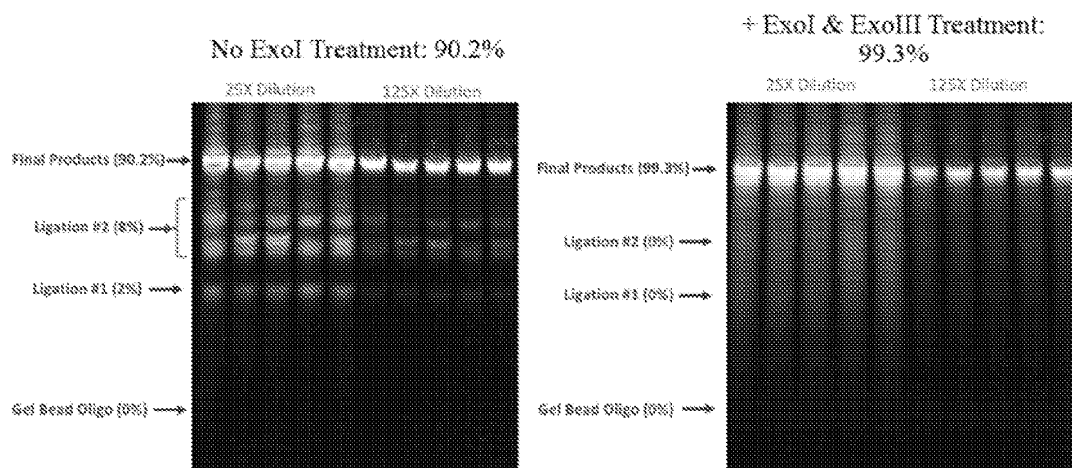


FIG. 34

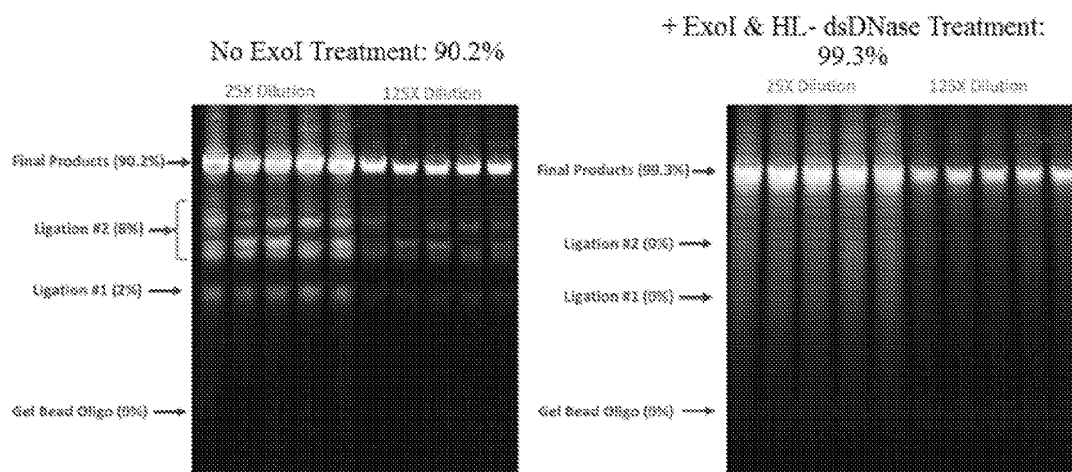


FIG. 35

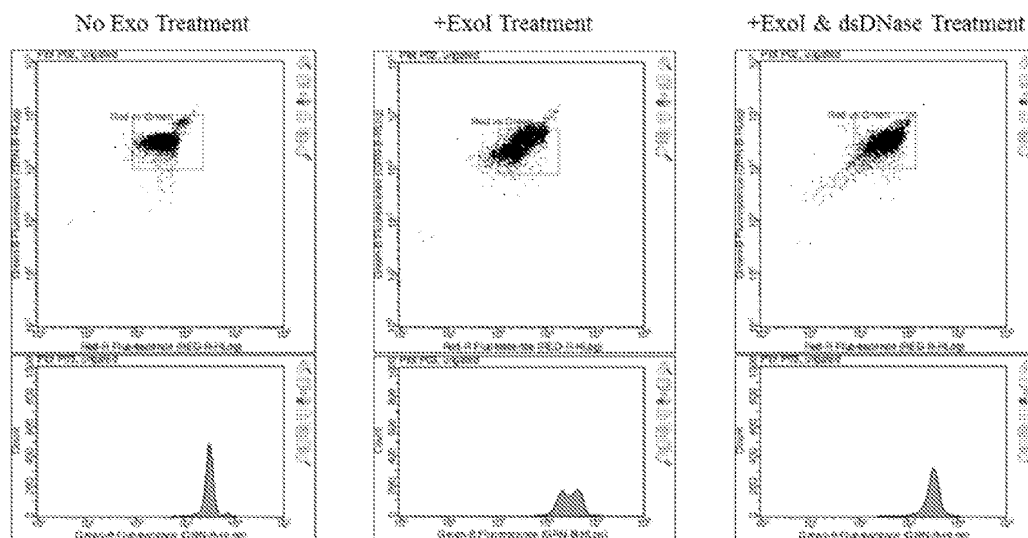


FIG. 36