

100

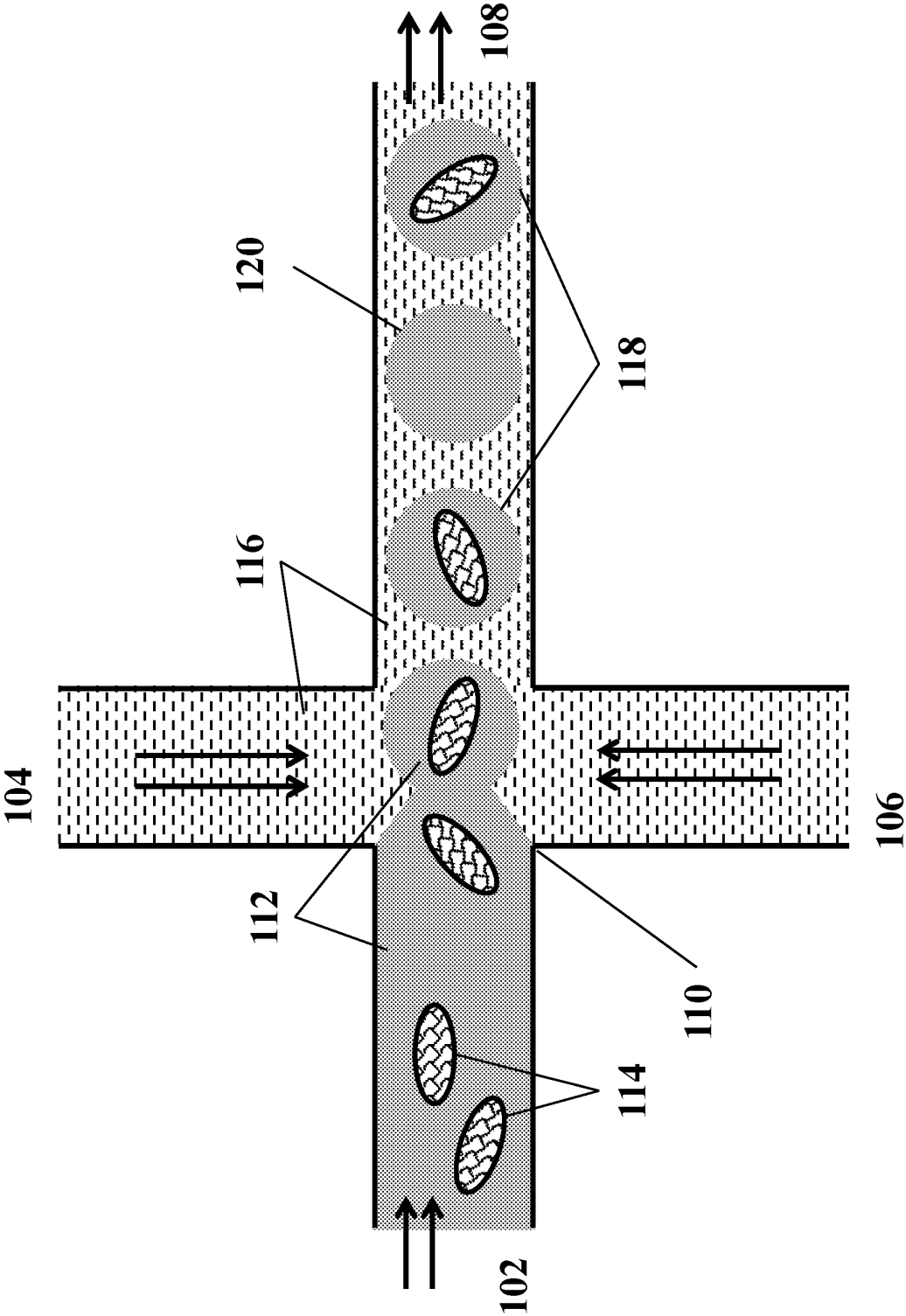
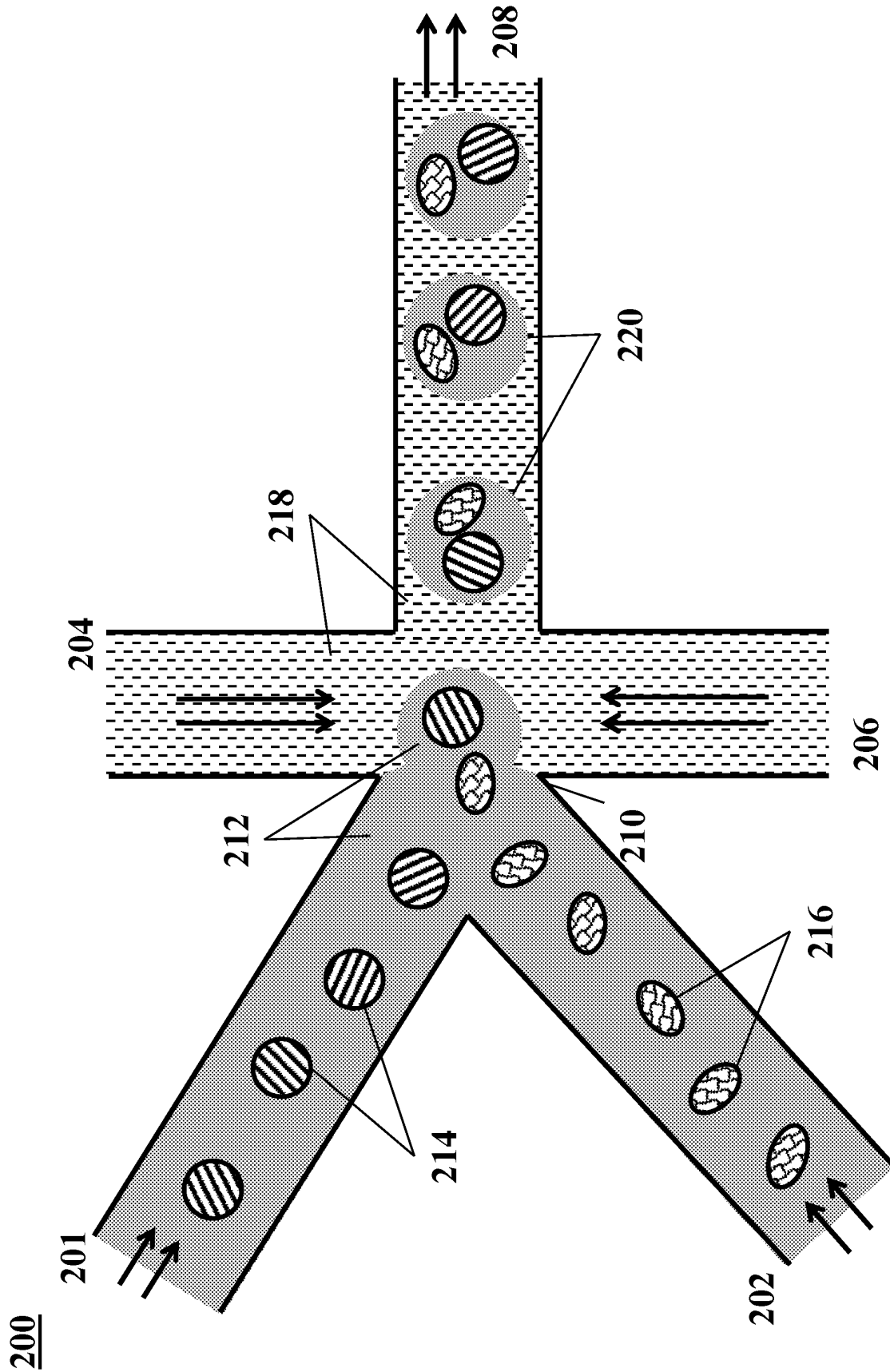


FIG. 1

**FIG. 2**

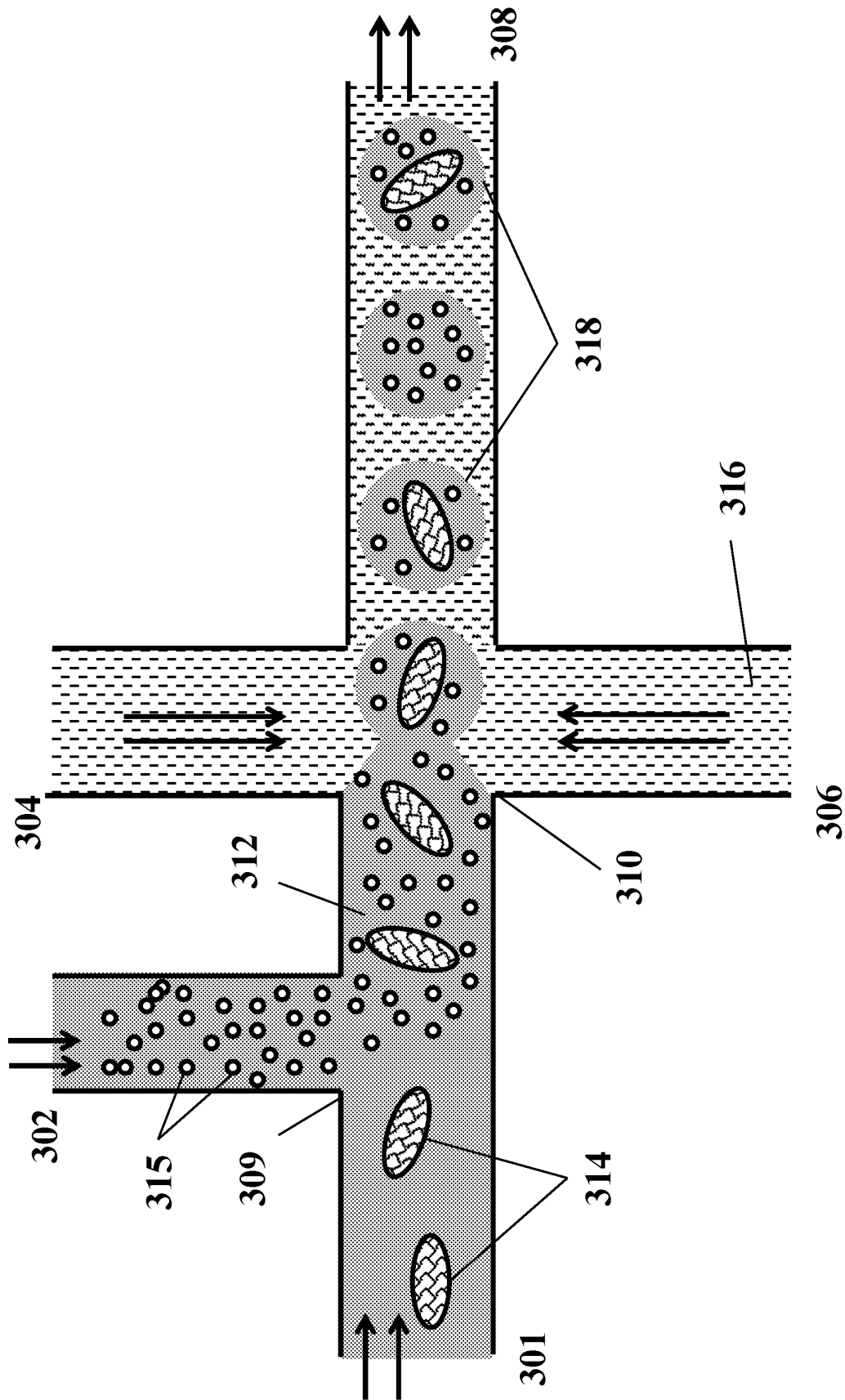
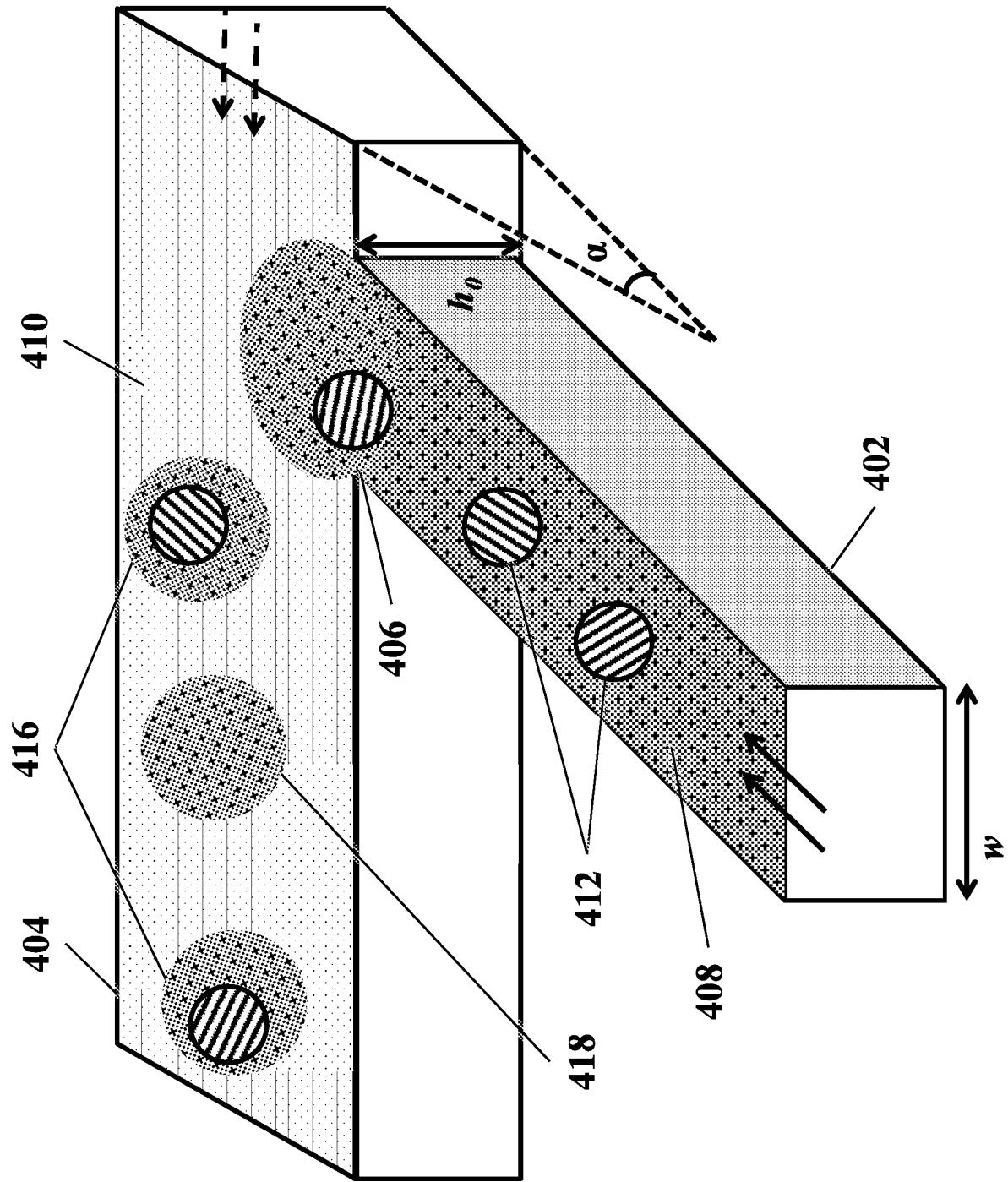


FIG. 3

400**FIG. 4**

500

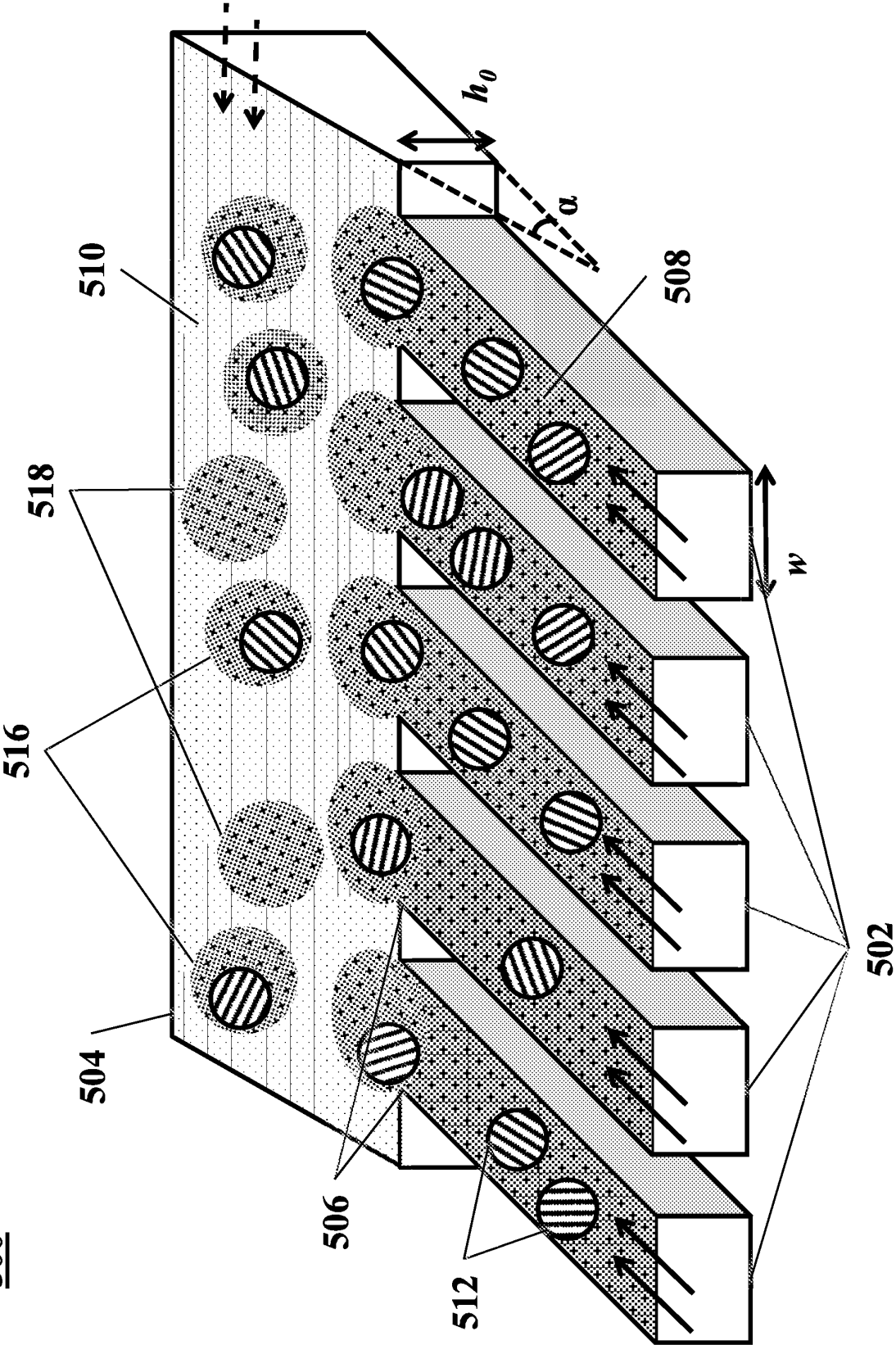


FIG. 5

600

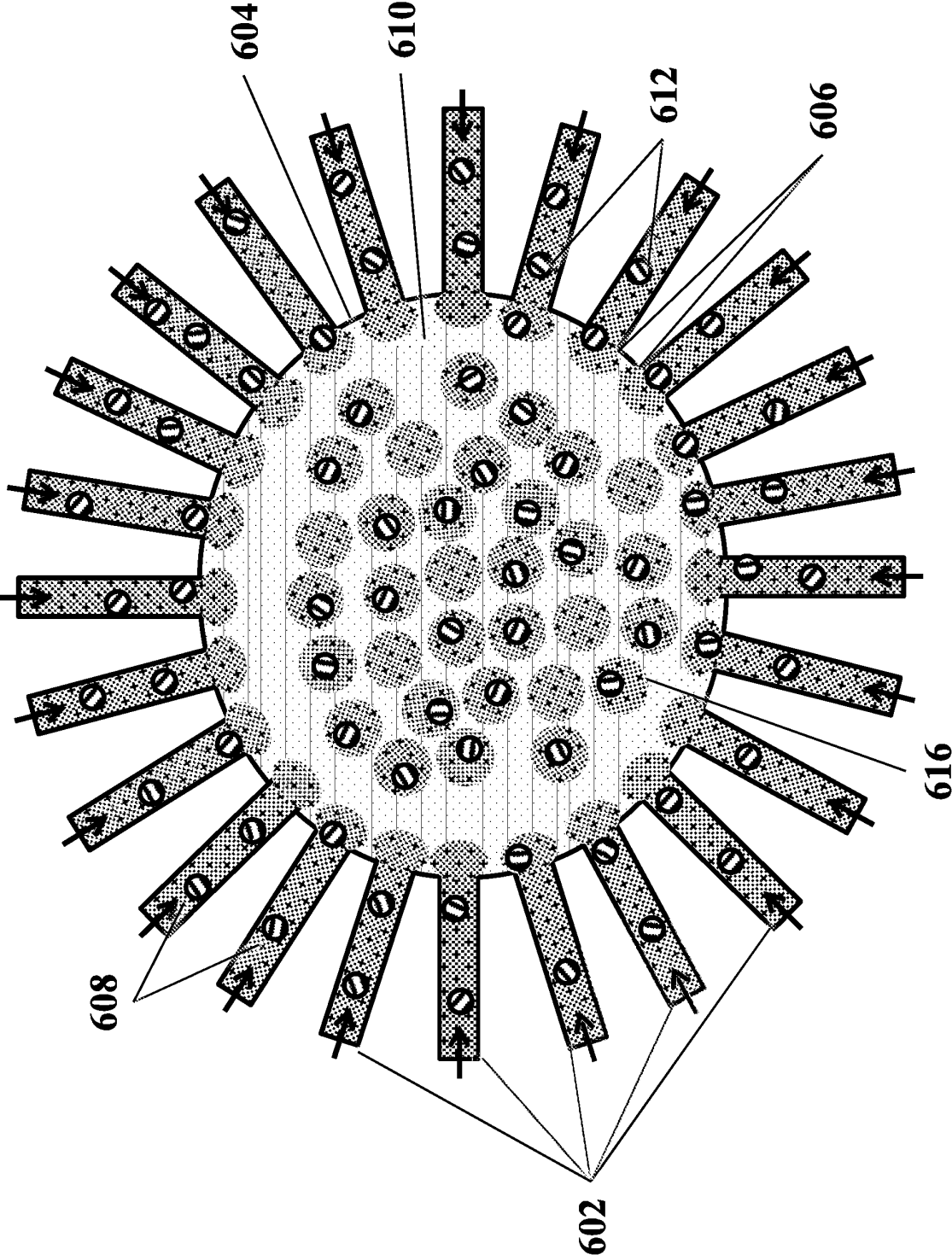


FIG. 6

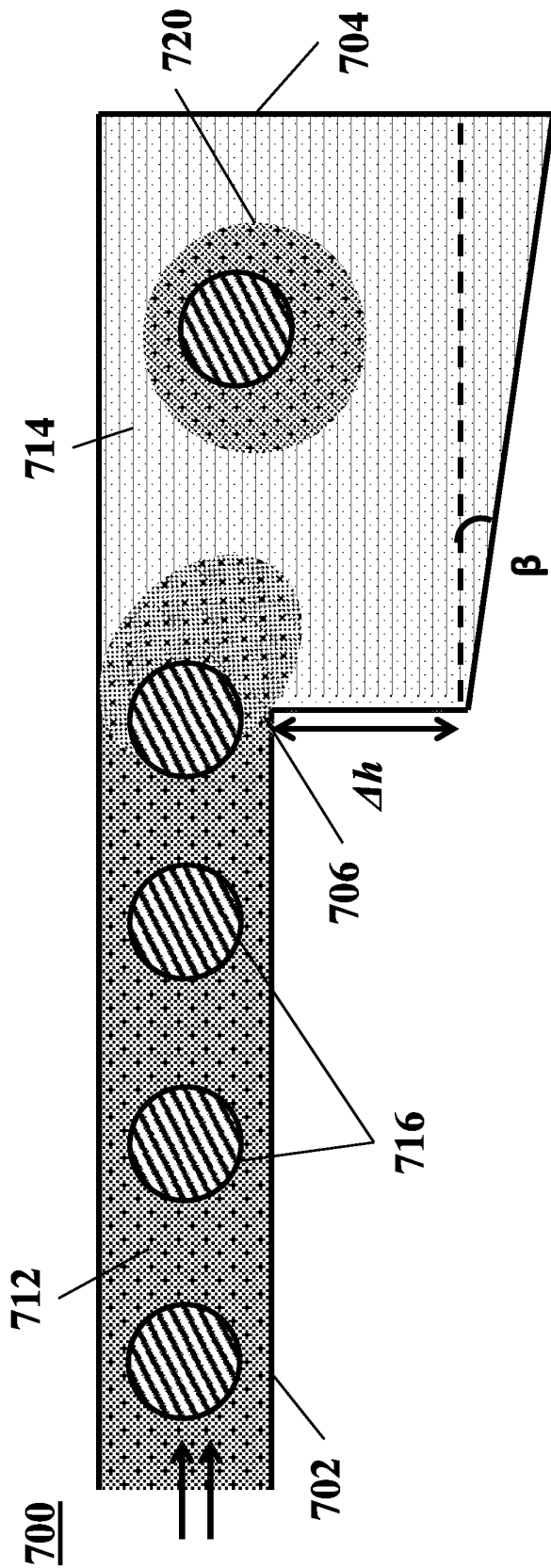


FIG. 7A

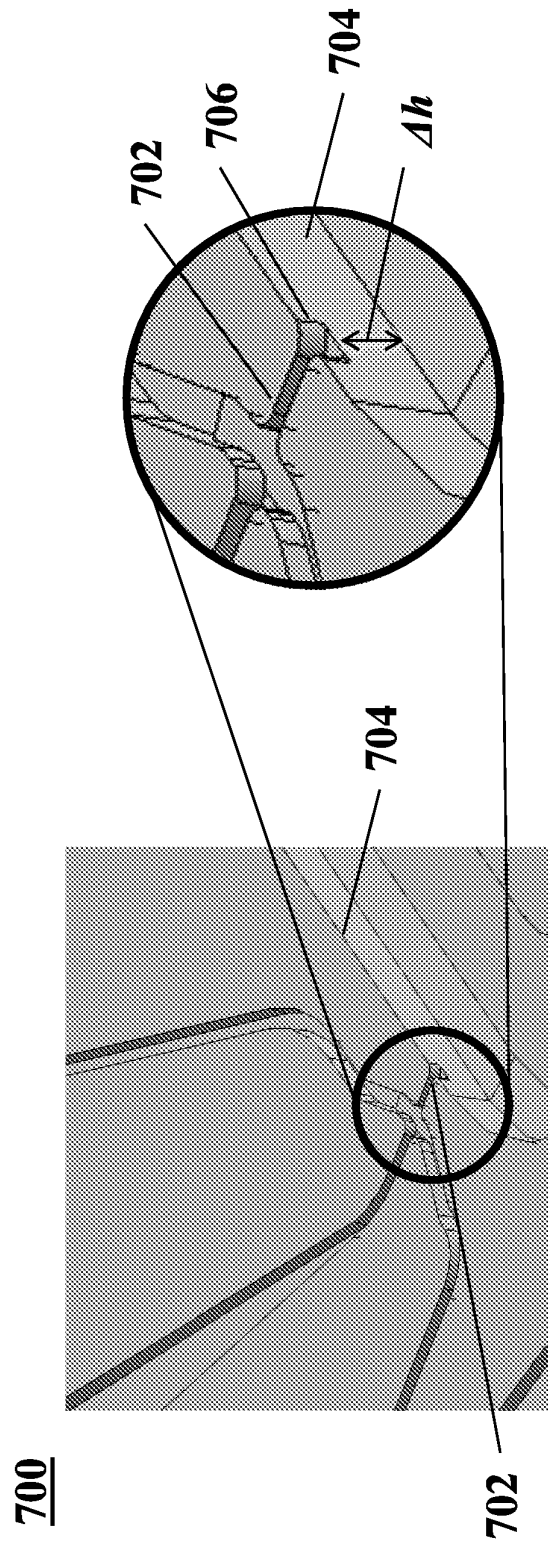


FIG. 7B

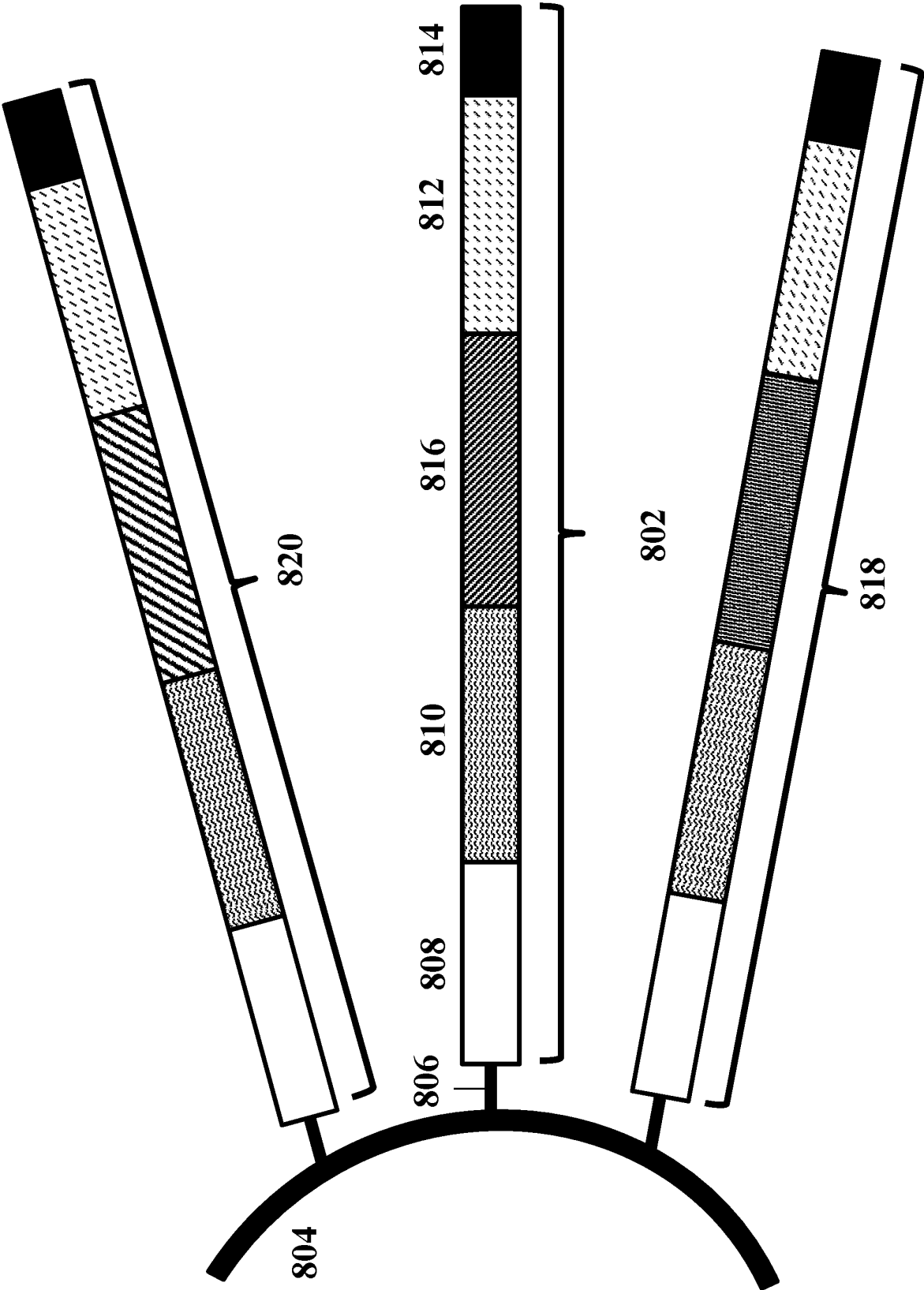


FIG. 8

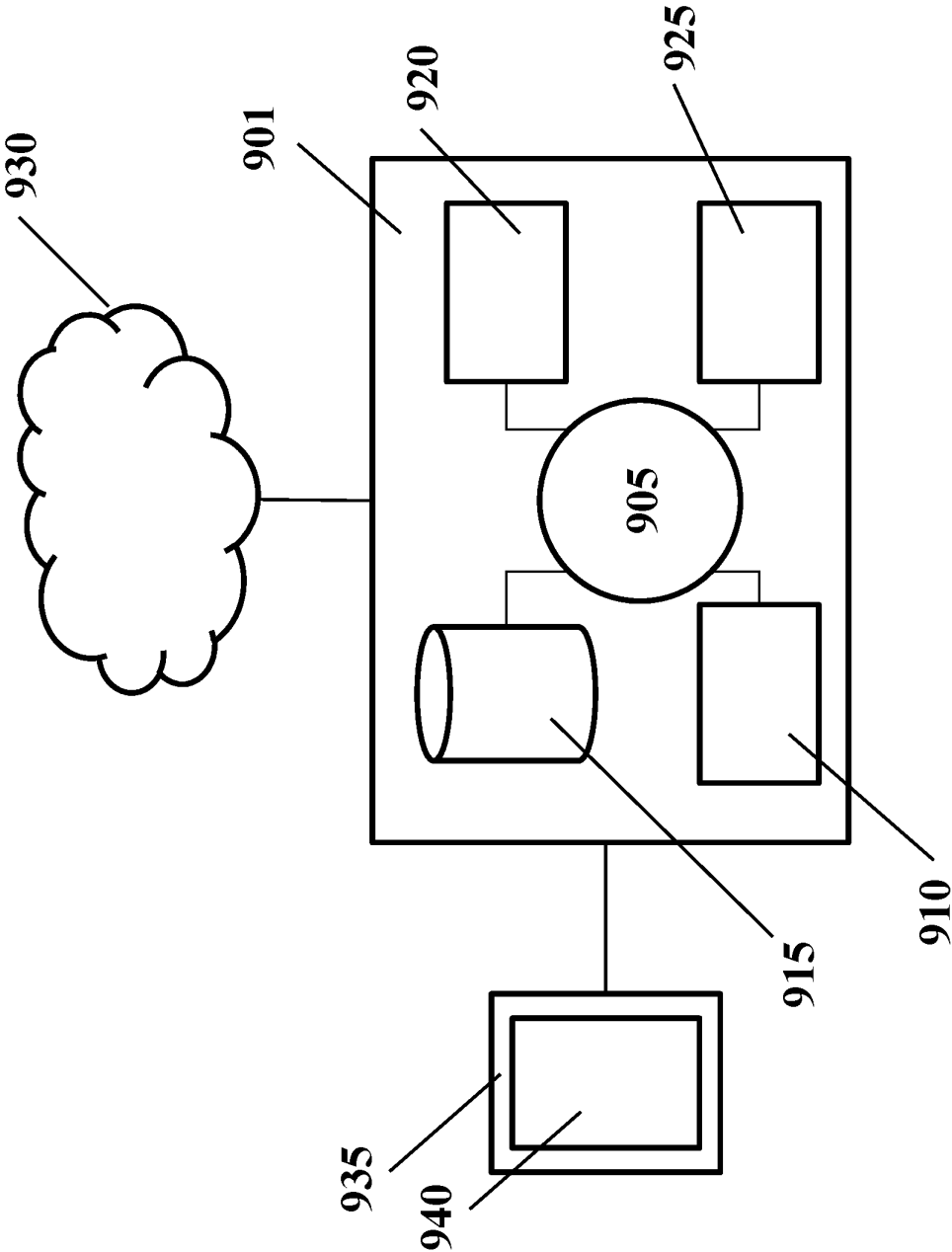


FIG. 9

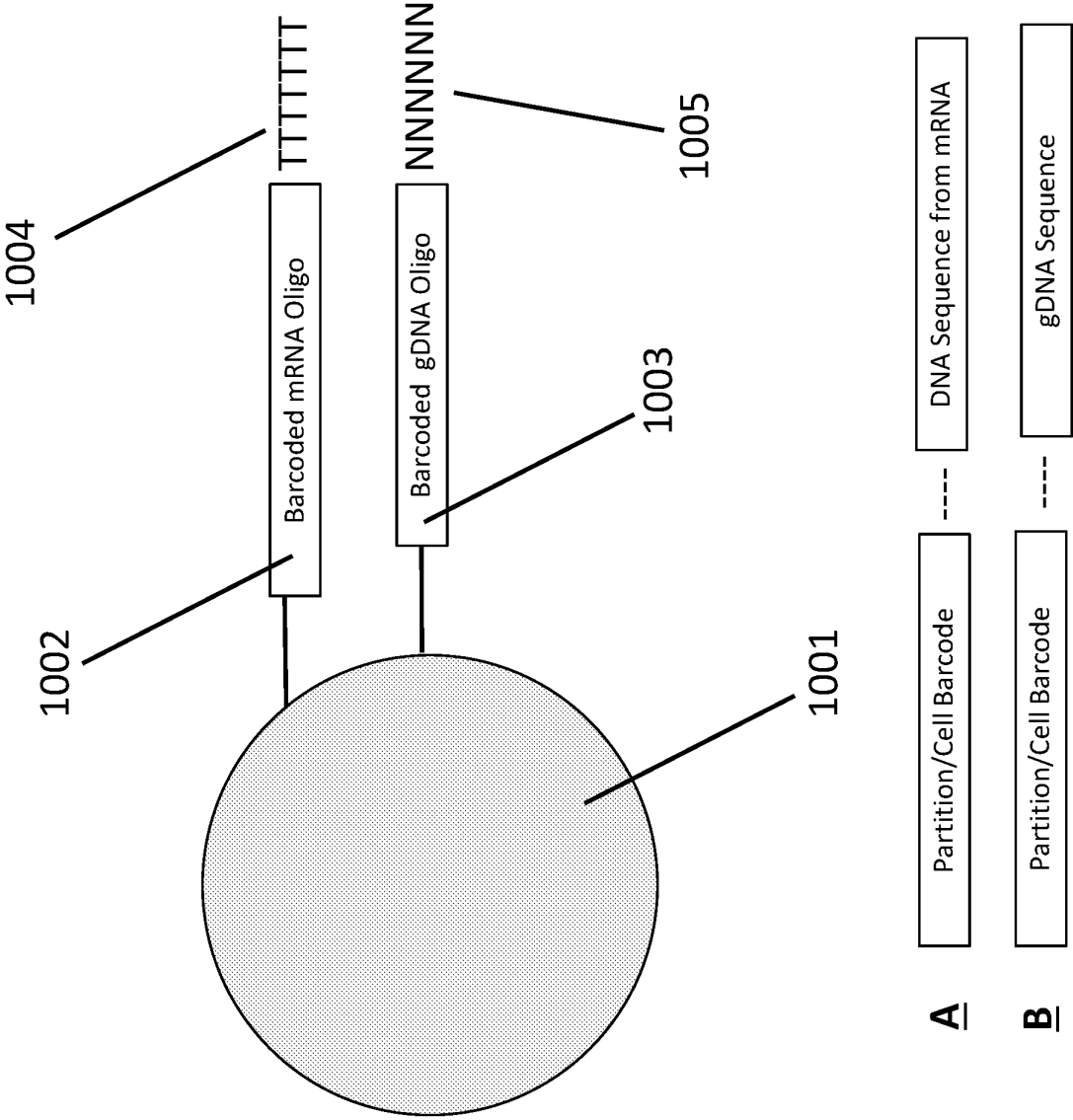


FIG. 10A

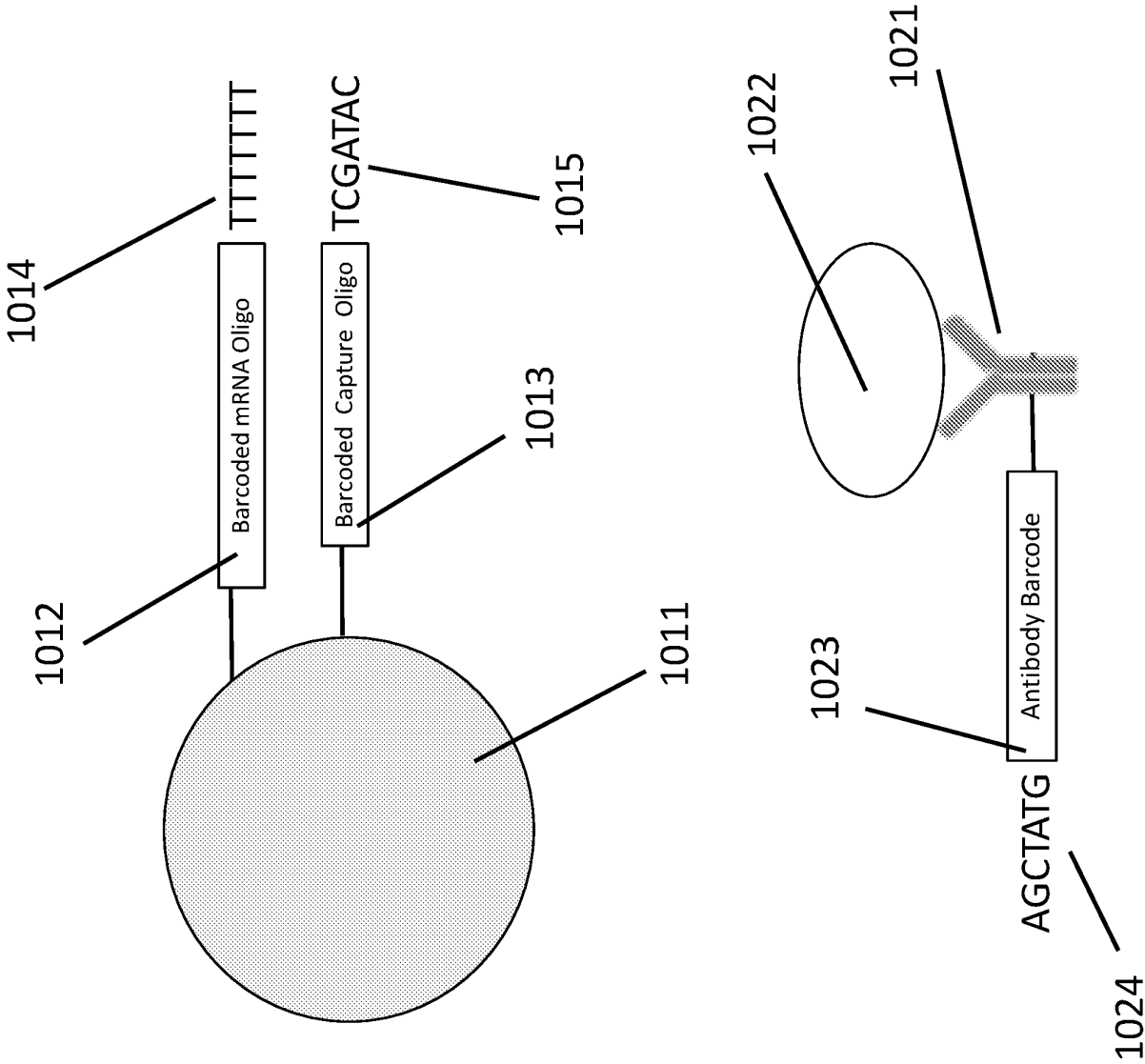


FIG. 10B

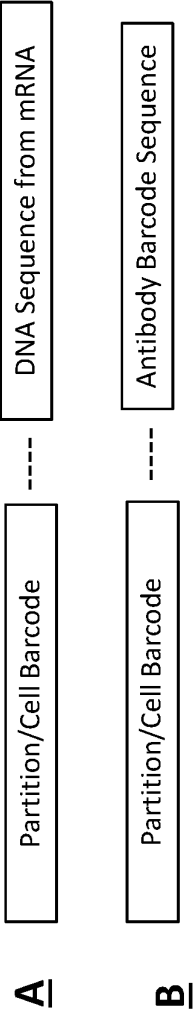


FIG. 10C

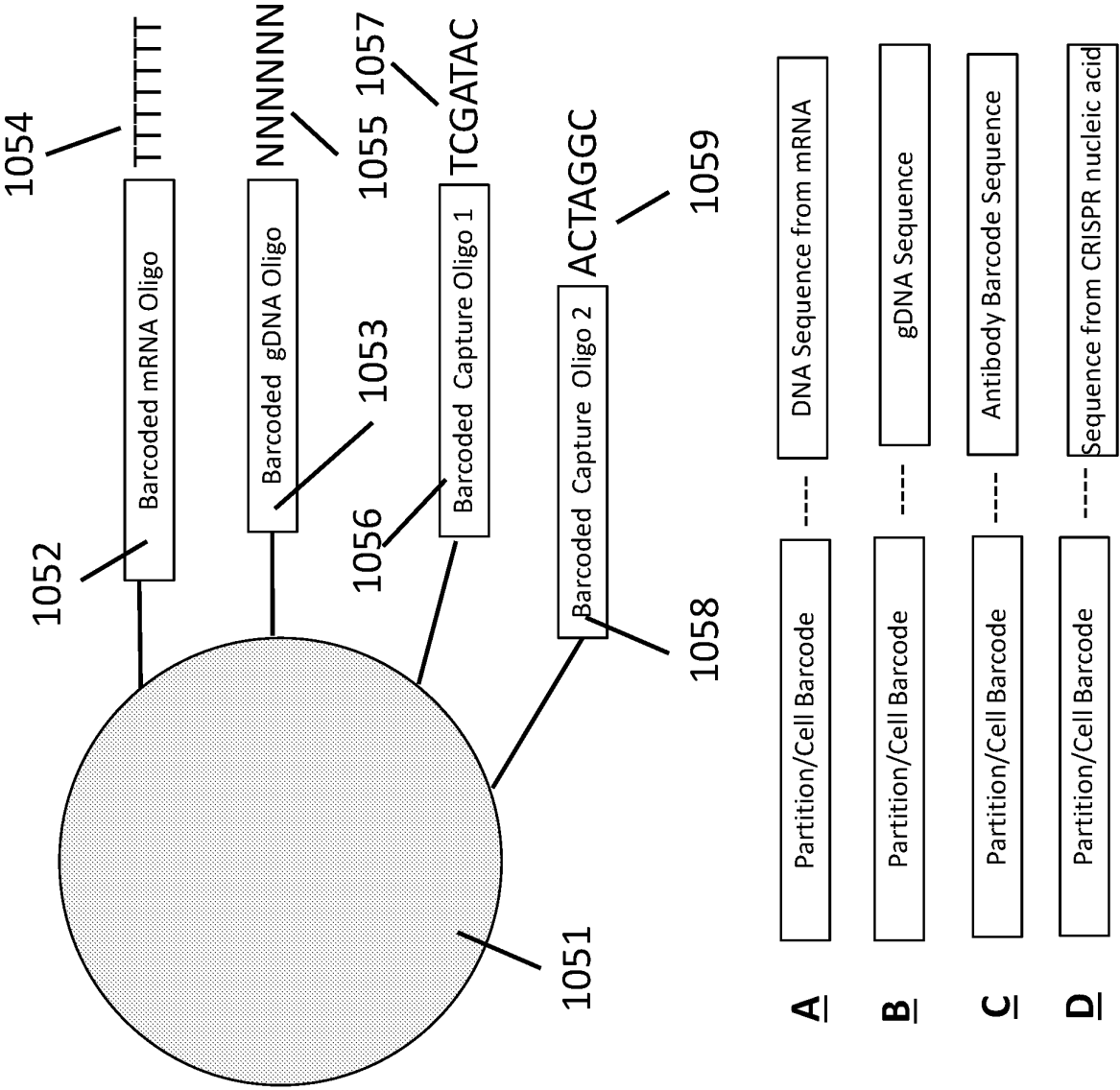


FIG. 10D

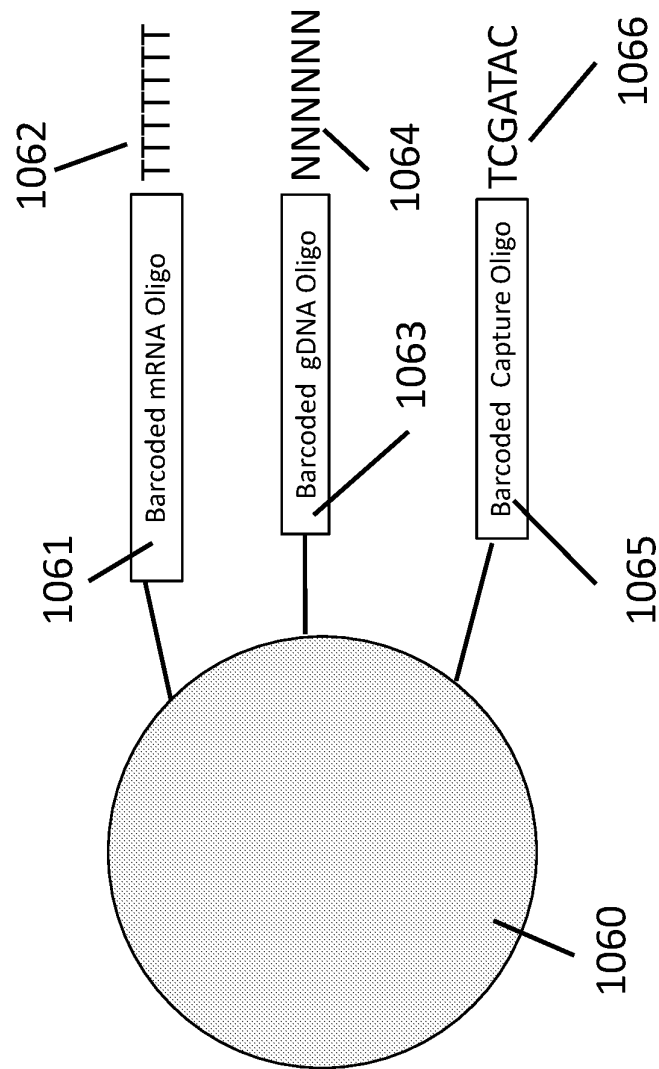


FIG. 10E

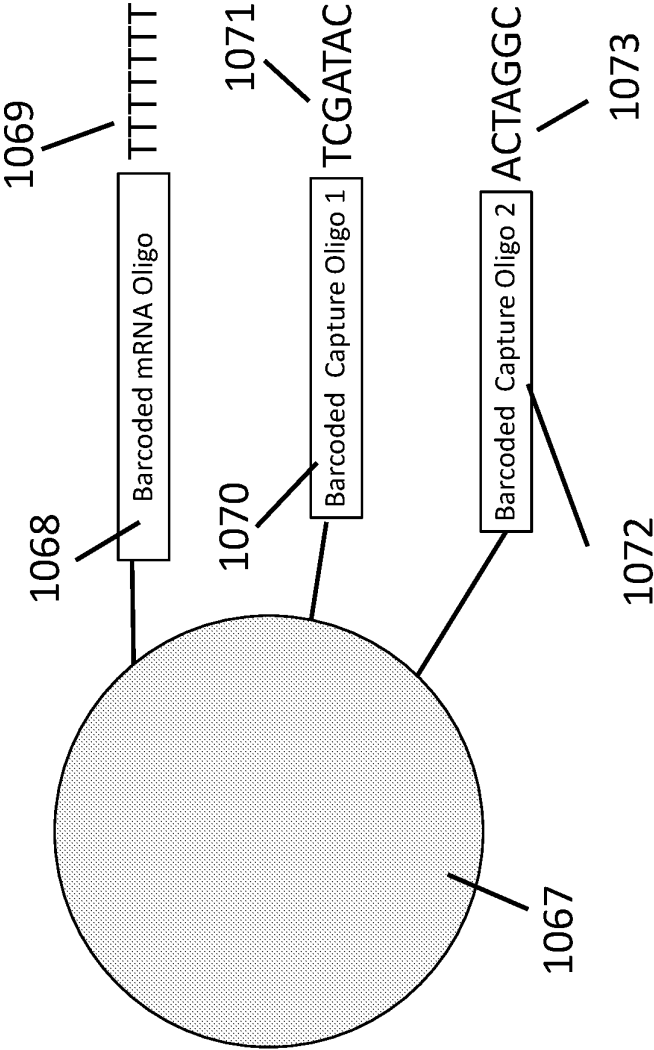


FIG. 10F

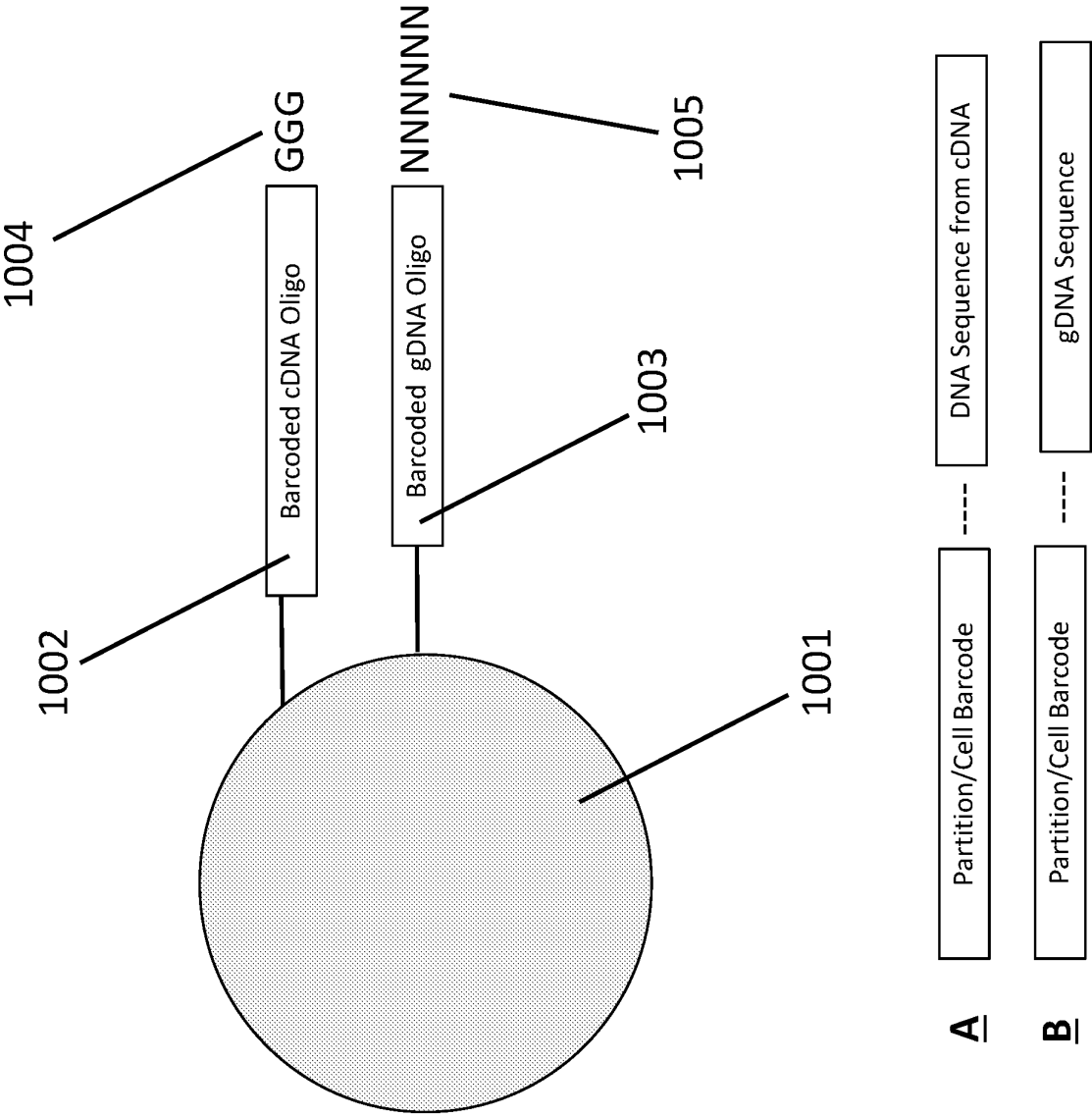


FIG. 10G

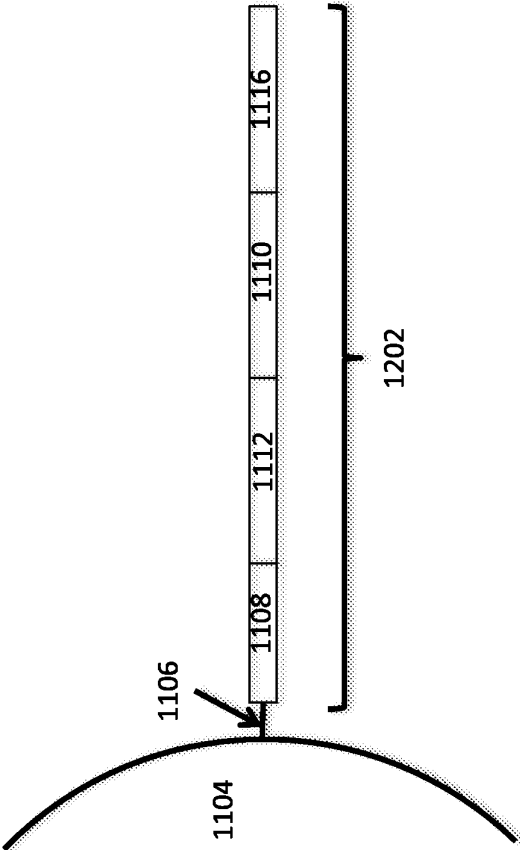


FIG. 11A

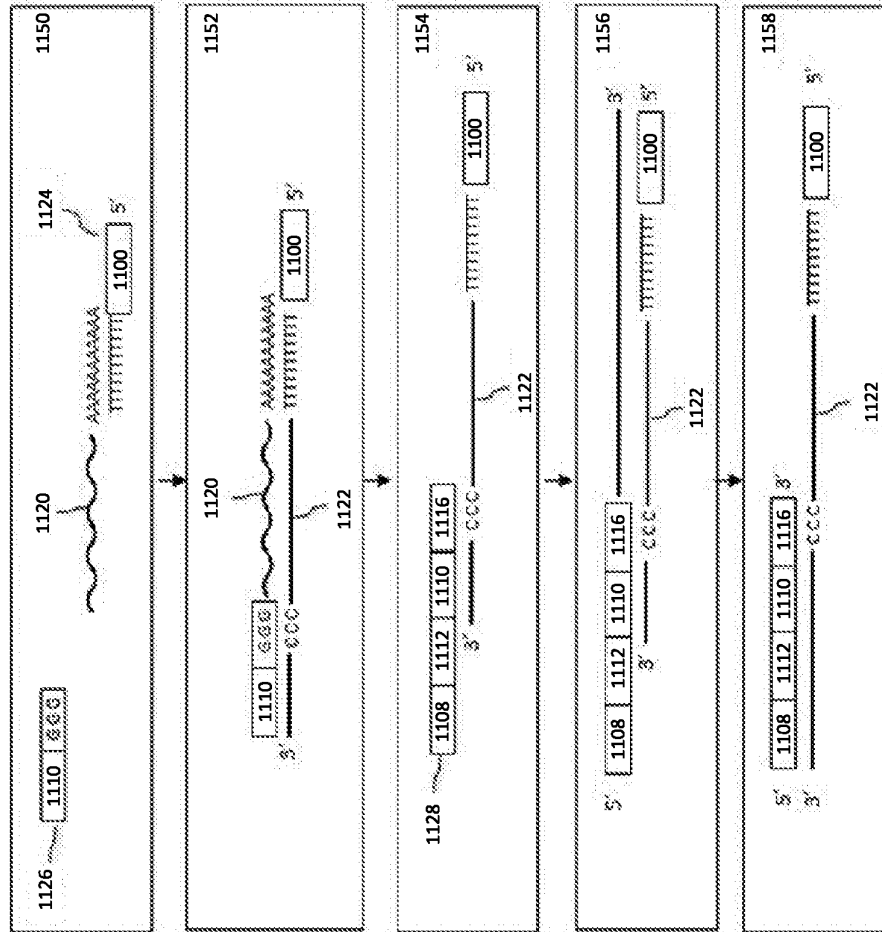


FIG. 11B

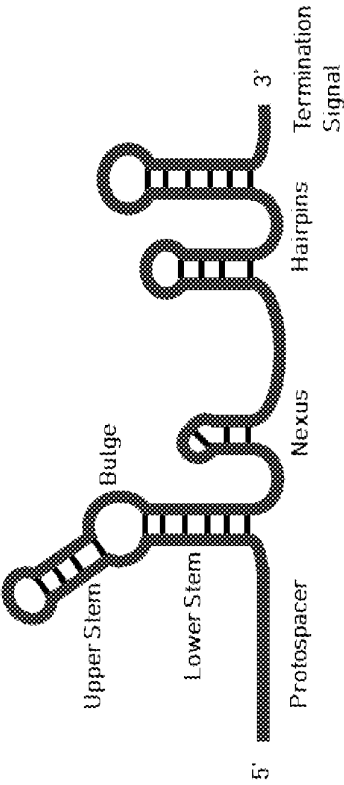


FIG. 12A

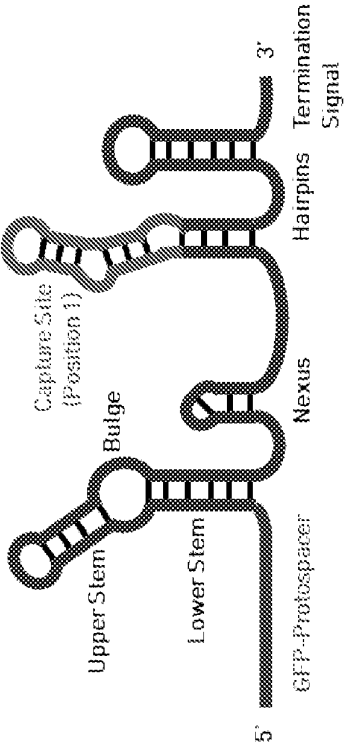


FIG. 12B

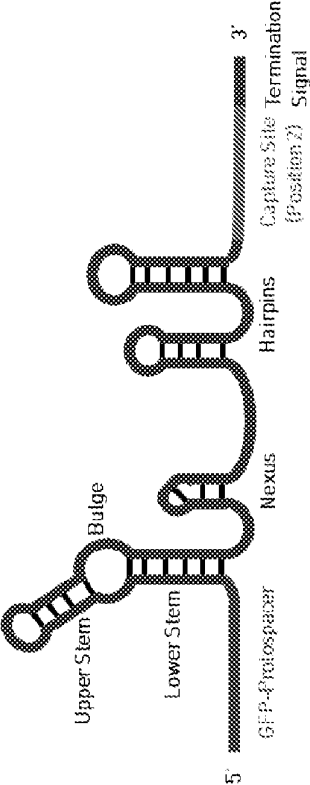


FIG. 12C



FIG. 12D

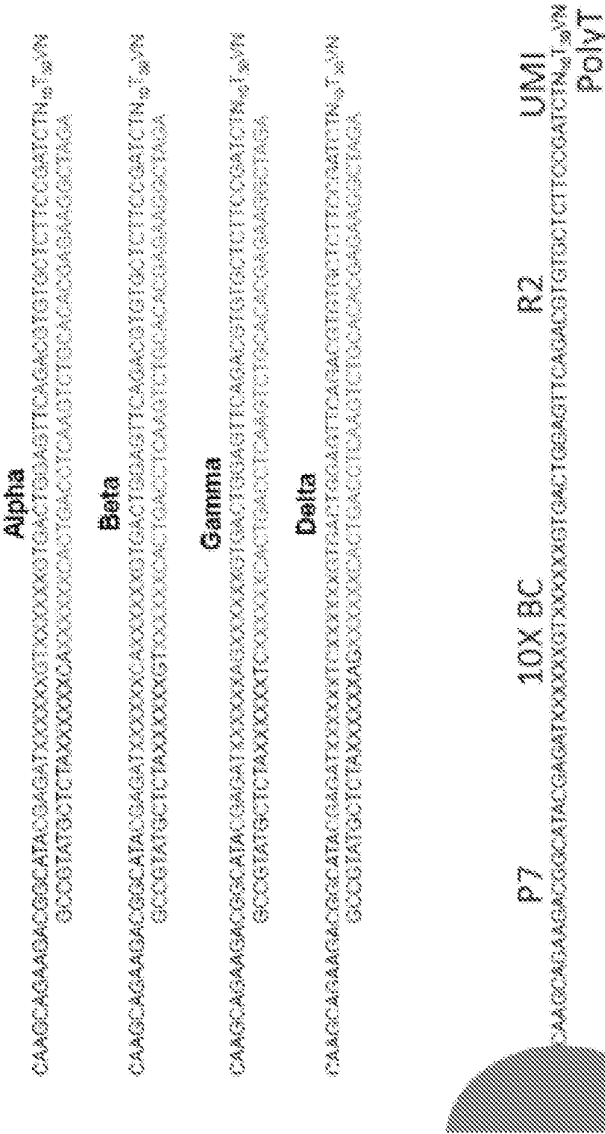


FIG. 13A

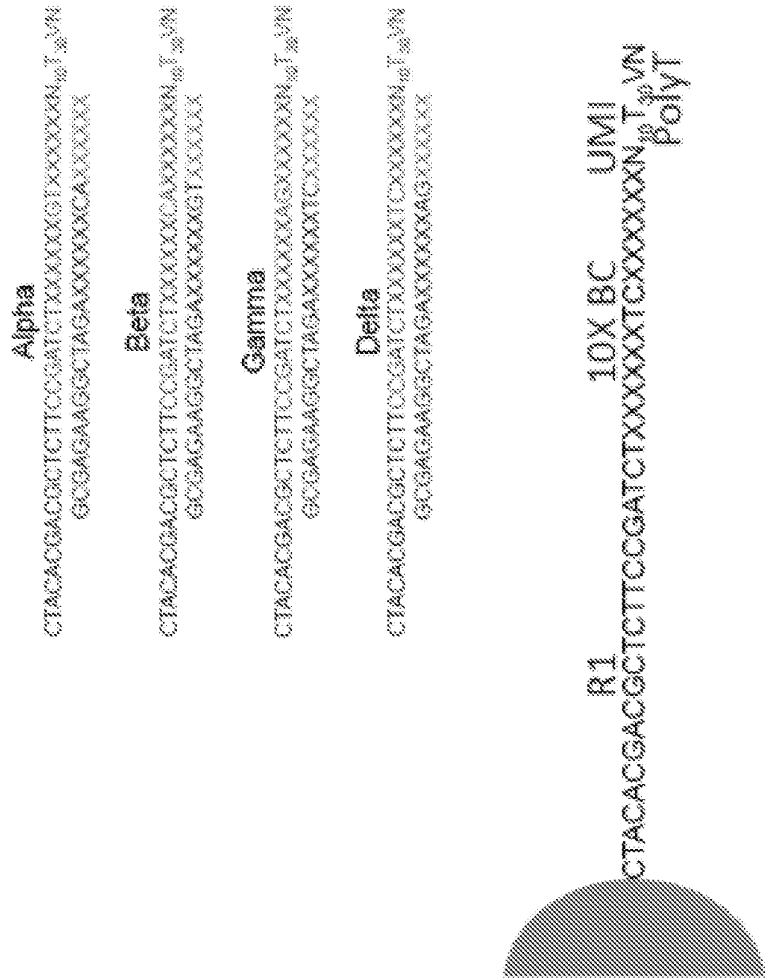


FIG. 13B

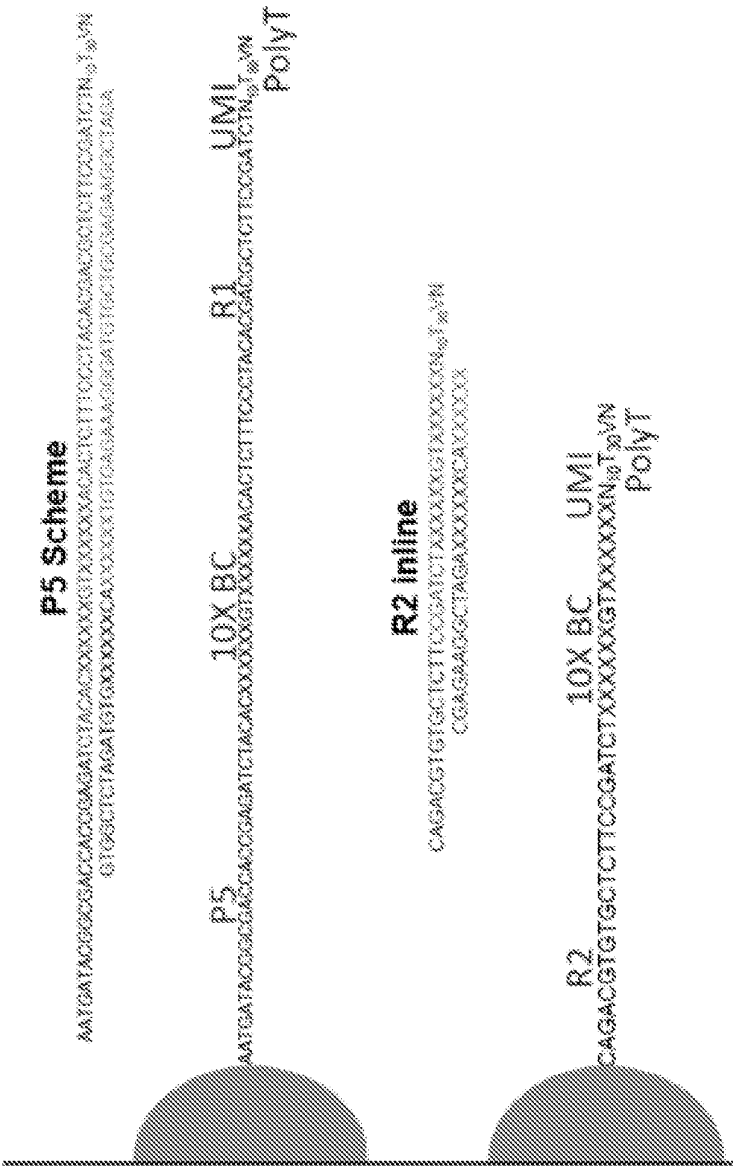


FIG. 13C

FIG. 13D

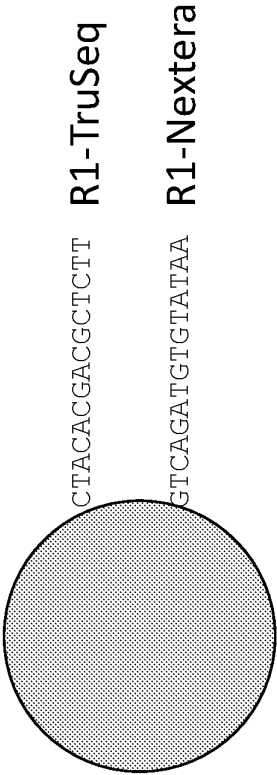


FIG. 14A

Alpha
CTACACGACGCTCTTCCGATCTXXXXXXXXXXGTXXXXXXXXXX^T₃₀ VN
GCGAGAAAGGCTAGAXXXXXXXXXXCAXXXXXXXXXX

Beta
CTACACGACGCTCTTCCGATCTXXXXXXXXXXCAXXXXXXXXXX^T₃₀ VN
GCGAGAAAGGCTAGAXXXXXXXXXXGTXXXXXXXXXX

Gamma
CTACACGACGCTCTTCCGATCTXXXXXXXXXXAGXXXXXXXXXX^T₃₀ VN
GCGAGAAAGGCTAGAXXXXXXXXXXTCXXXXXXXXXX

Delta
CTACACGACGCTCTTCCGATCTXXXXXXXXXXTCXXXXXXXXXX^T₃₀ VN
GCGAGAAAGGCTAGAXXXXXXXXXXAGXXXXXXXXXX

FIG. 14B

GTCAGATGTGATAAGACAGACAGXXXXXXGTXXXXXXXN₁₀GCTTCGTACGCGAACTAGCGT
CACATATTCTCTGTCTCXXXXXXXCAXXXXXXXXXX

GTCAGATGTGTATAAGAGACAGXXXXXXXXXXGTTXXXXXXXXX₁₀GCTTCGTACGCCGAACTAGCGT
CACATATTCTCTGTCXXXXXXXXXXCAXXXXXXXXXX

GTCAGATGTTGATAAGAGACAGXXXXXXXXGTXXXXXXXXN₁₀GCTTCGTACGCCGAACTAGCGT
CACATATTCTCTGTCXXXXXXXXXXCAXXXXXXXXXX

GTCAGATGTGTATAAGAGACAGXXXXXXXXXXGTTTTXXXXXXN₁₀GCTTCGTACGCCGAACTAGCGT
CACATATTCTCTGTCXXXXXXXXXXCAXXXXXXXXXXX

FIG. 14C



FIG. 15A

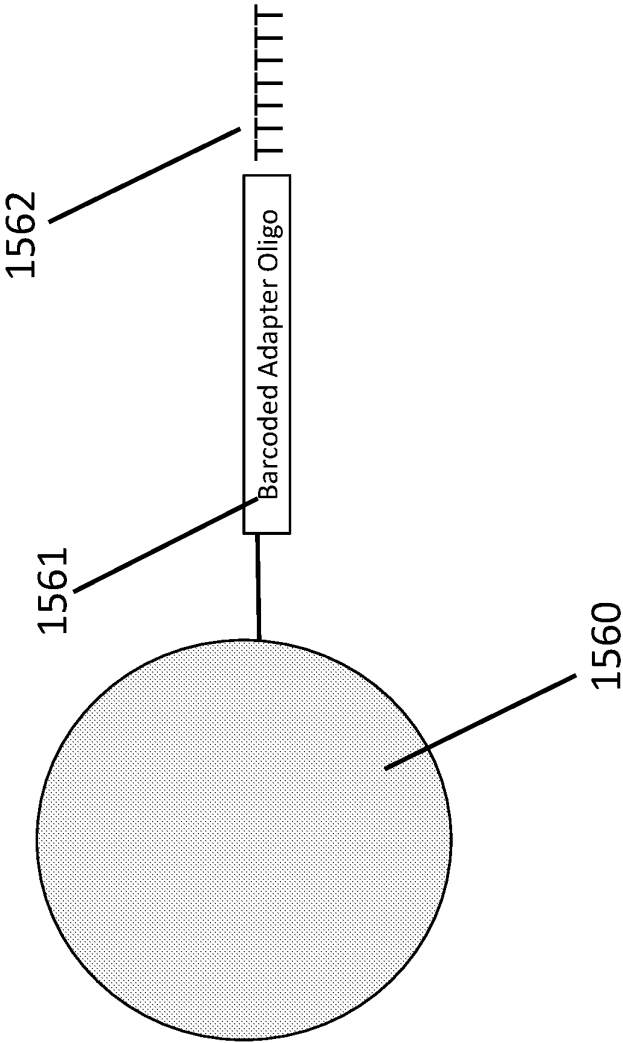


FIG. 15B

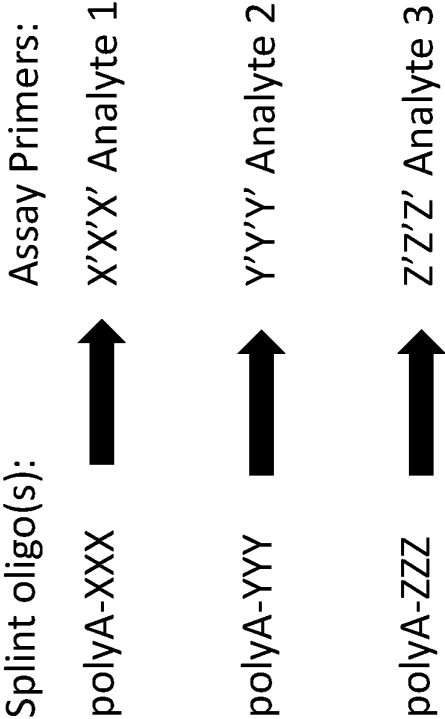


FIG. 15C

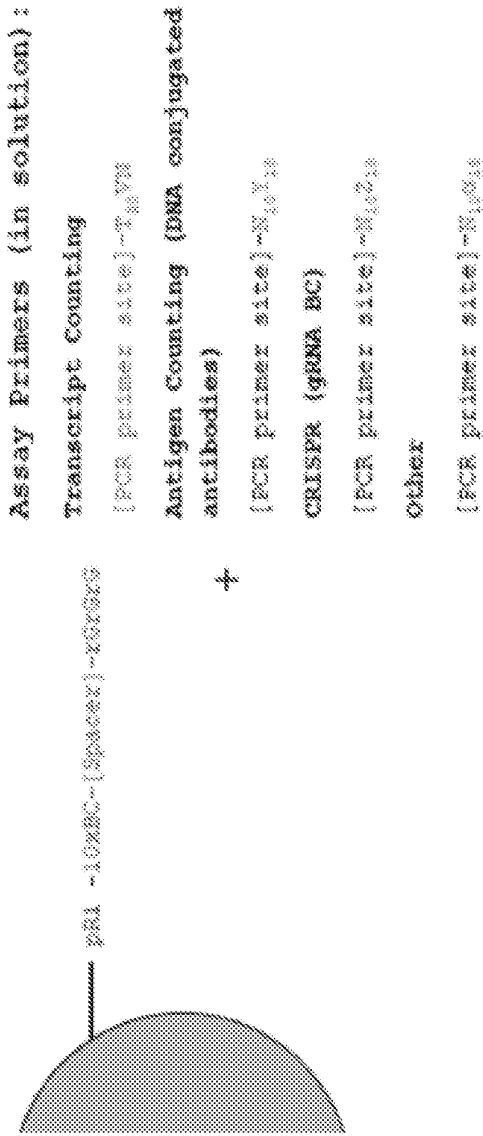


FIG. 16

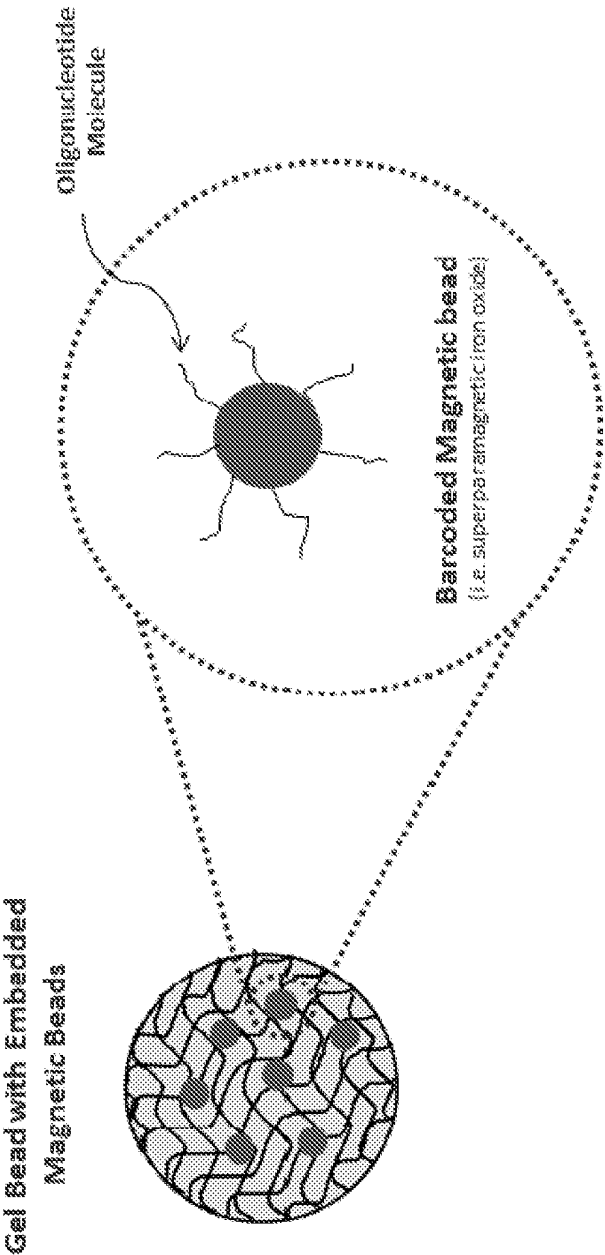
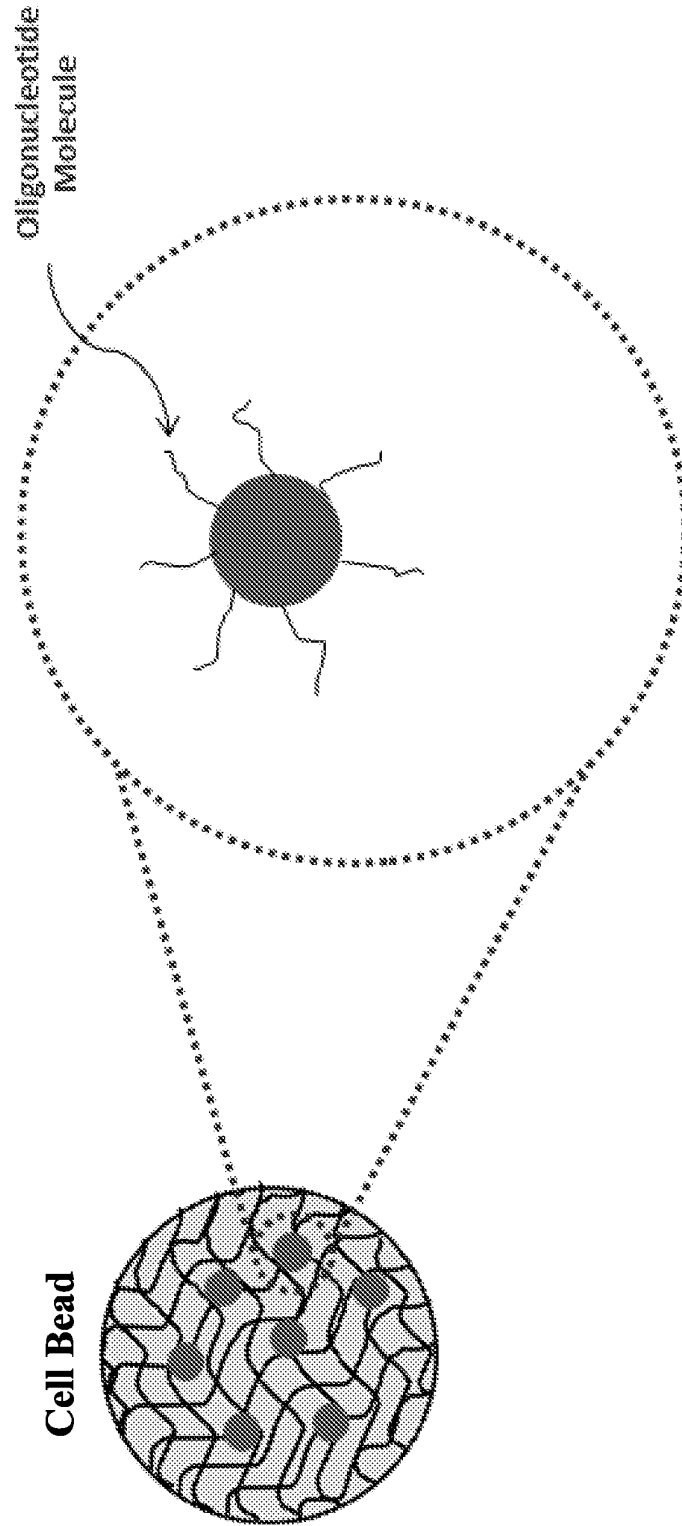


FIG. 17A

**FIG. 17B**

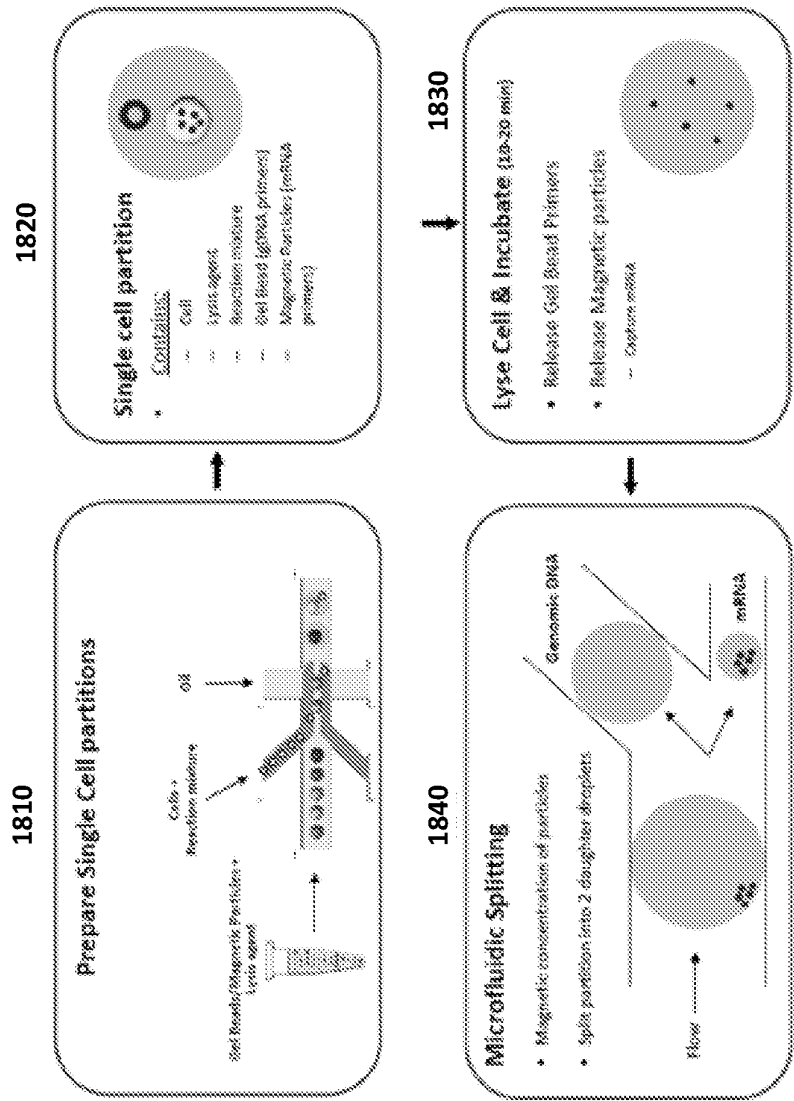


FIG. 18

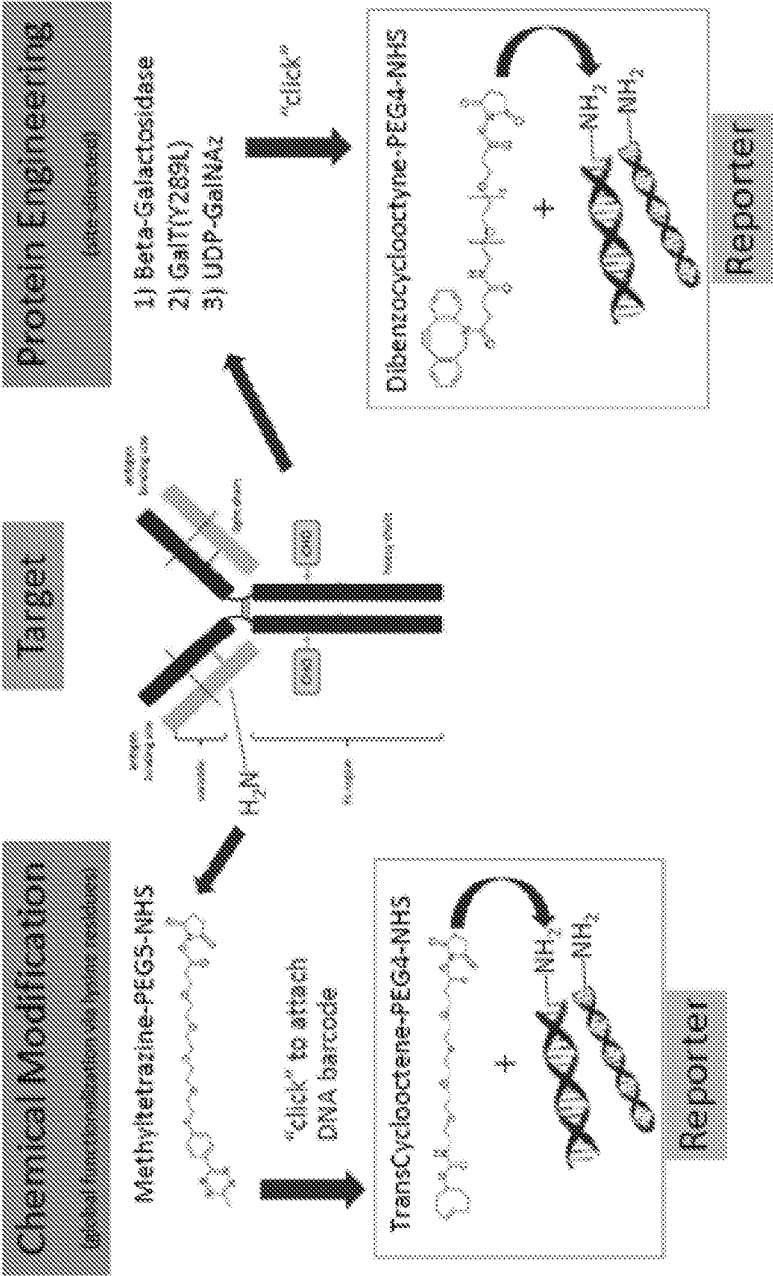


FIG. 19

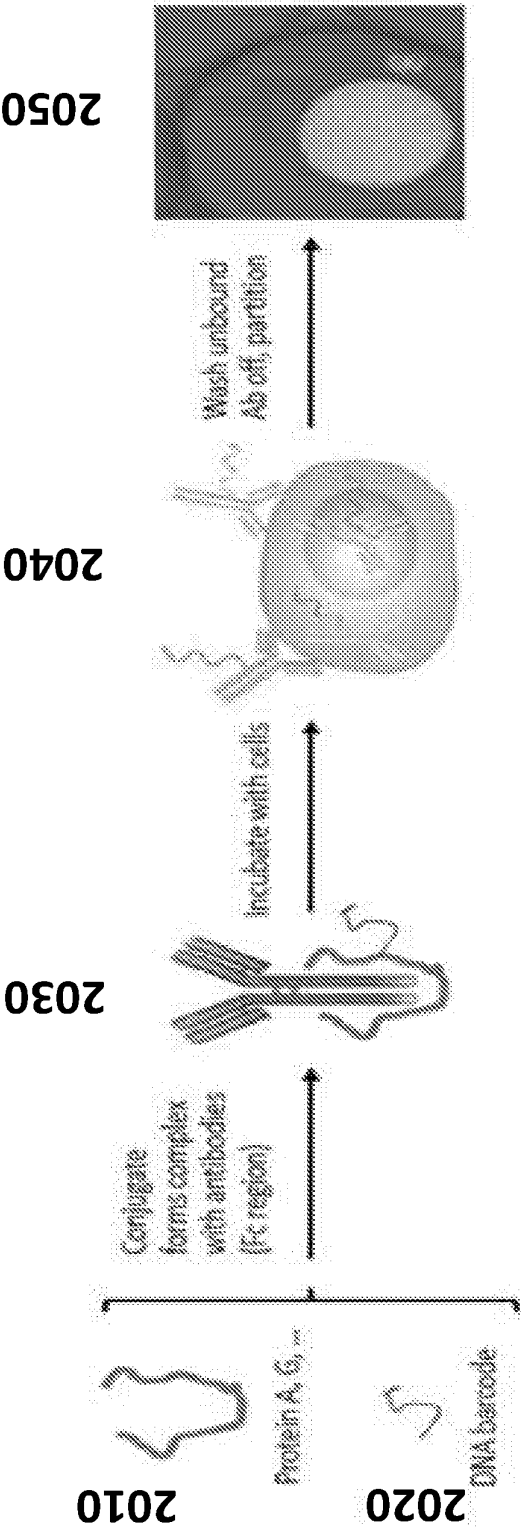


FIG. 20

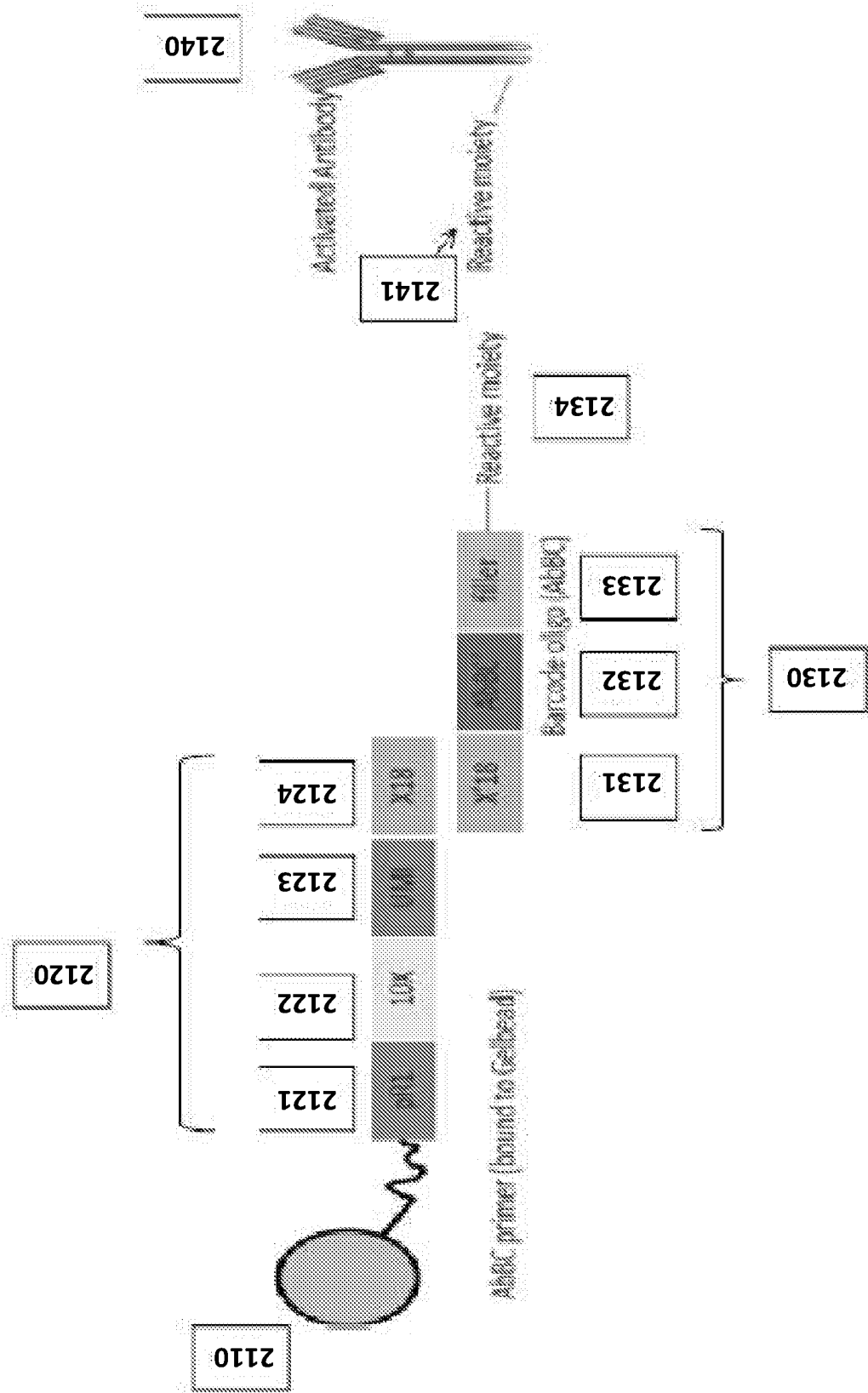


FIG. 21

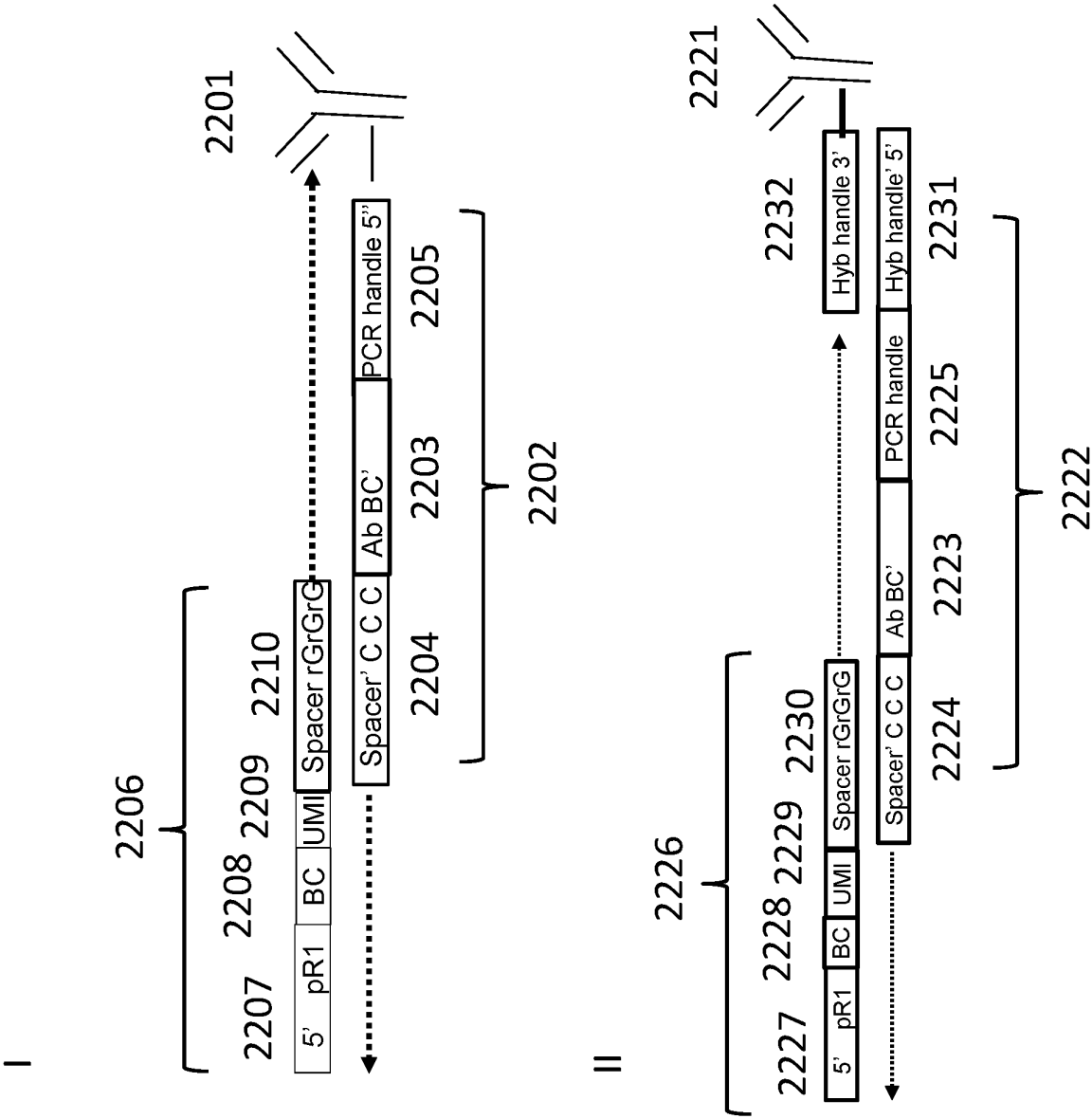


FIG. 22

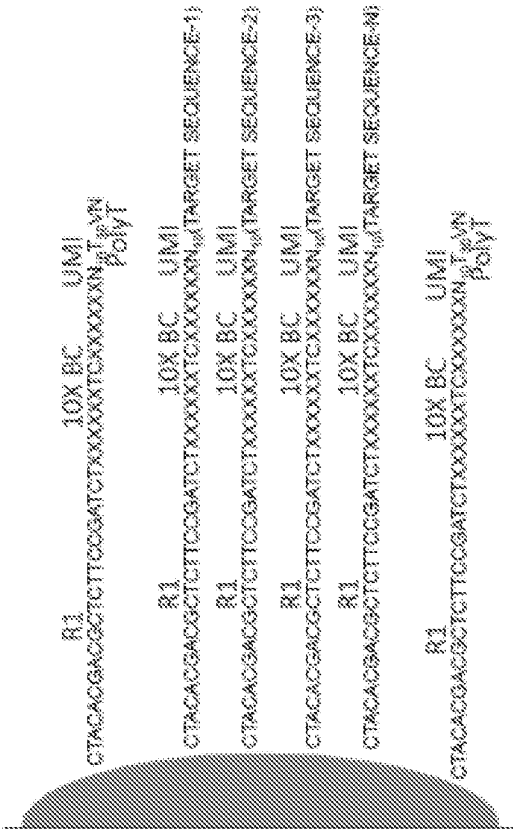


FIG. 23C

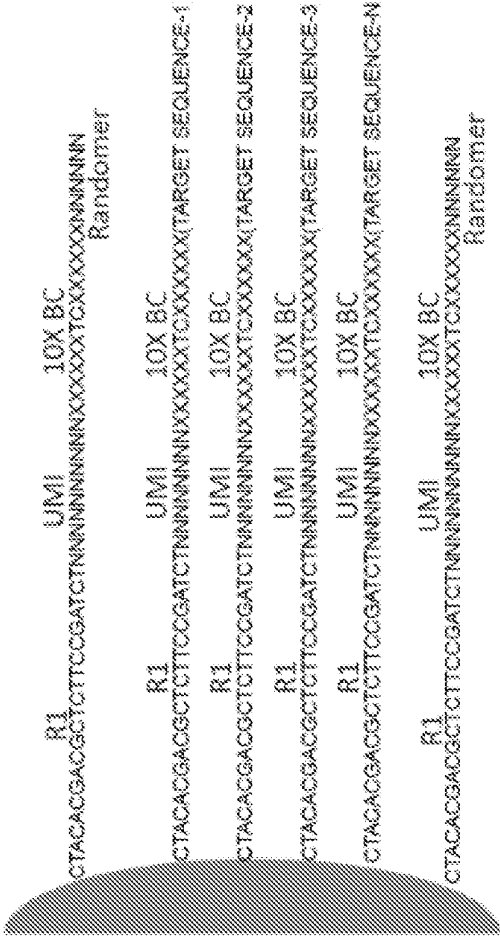


FIG. 23D

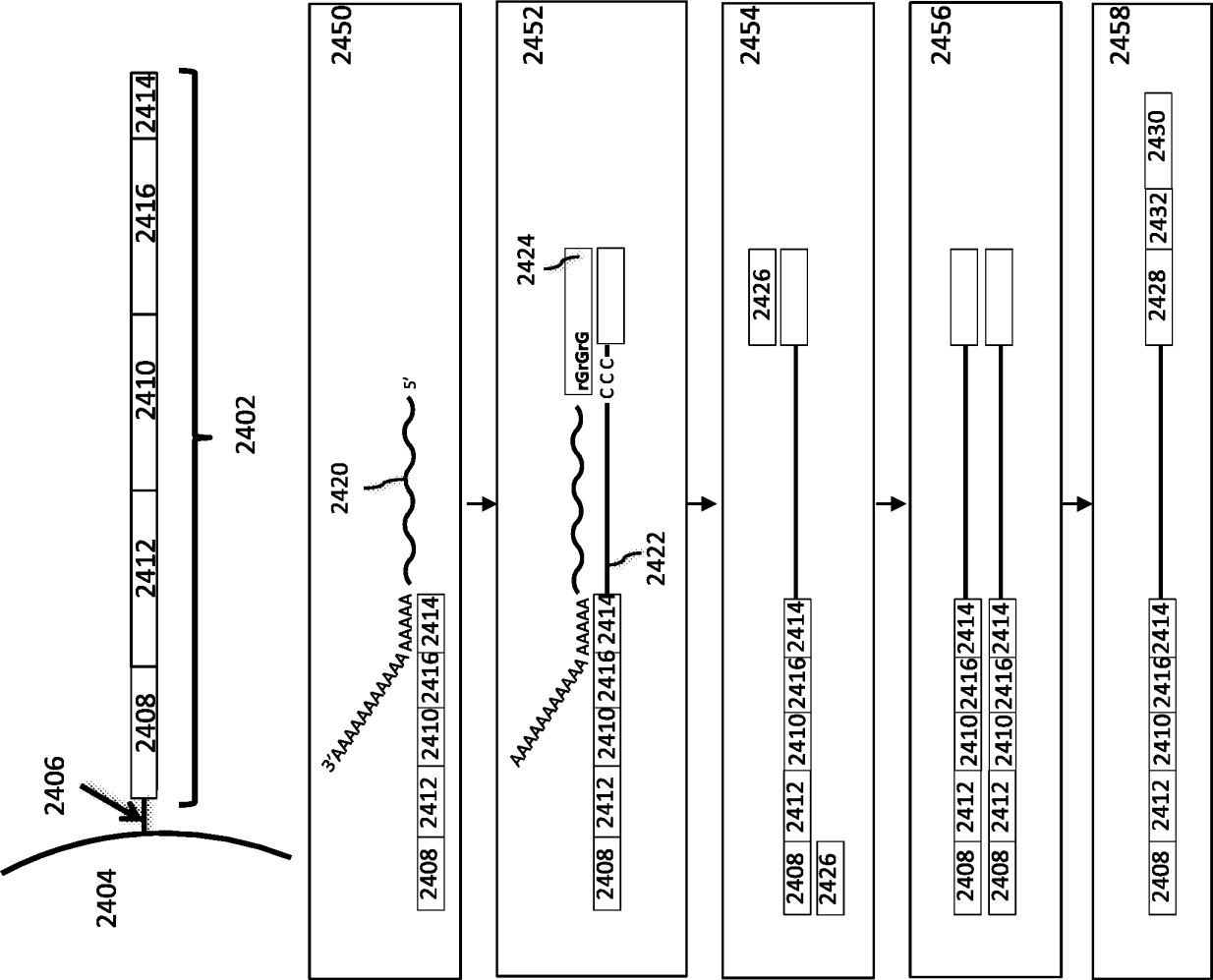


FIG. 24A

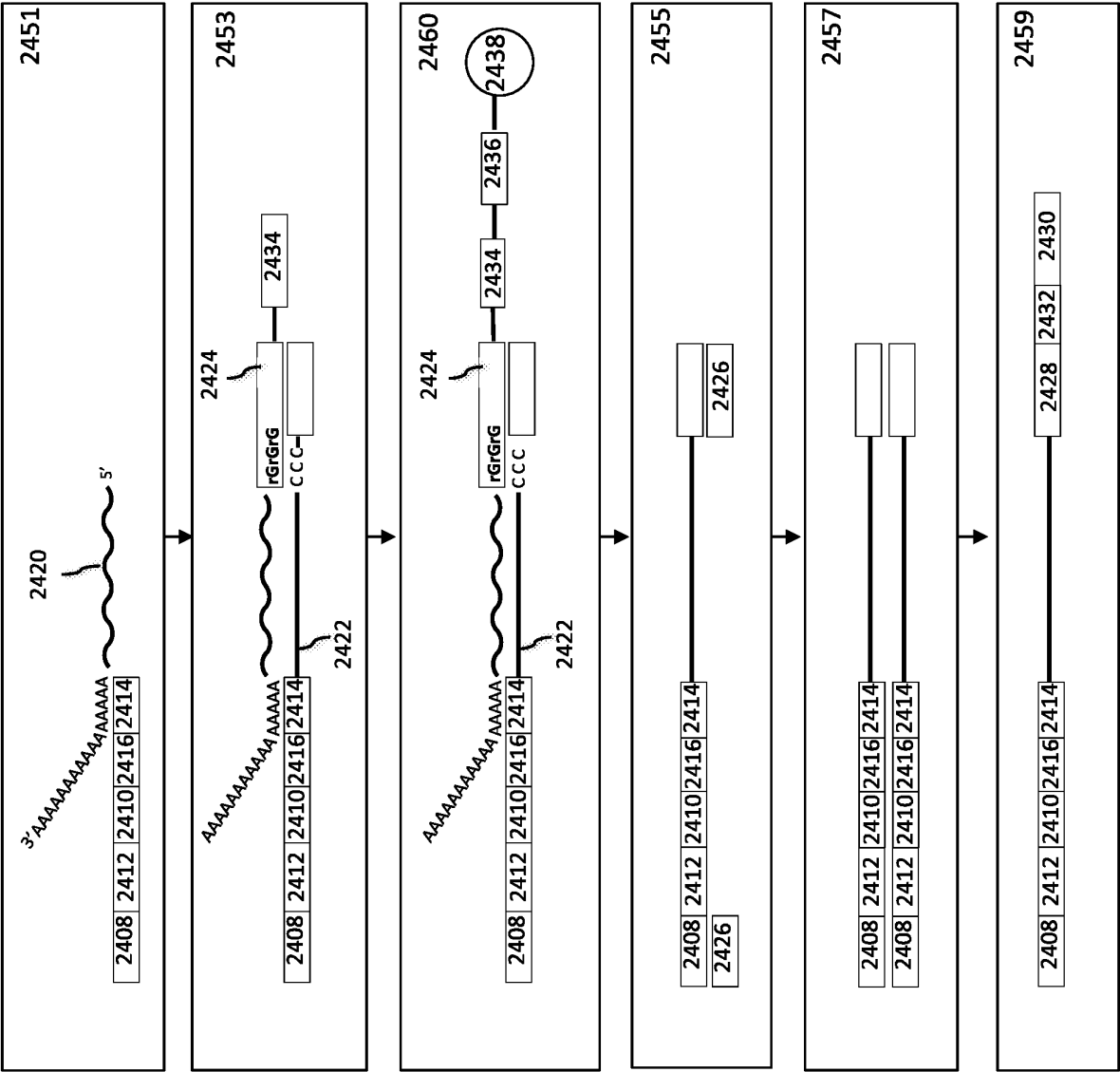


FIG. 24B

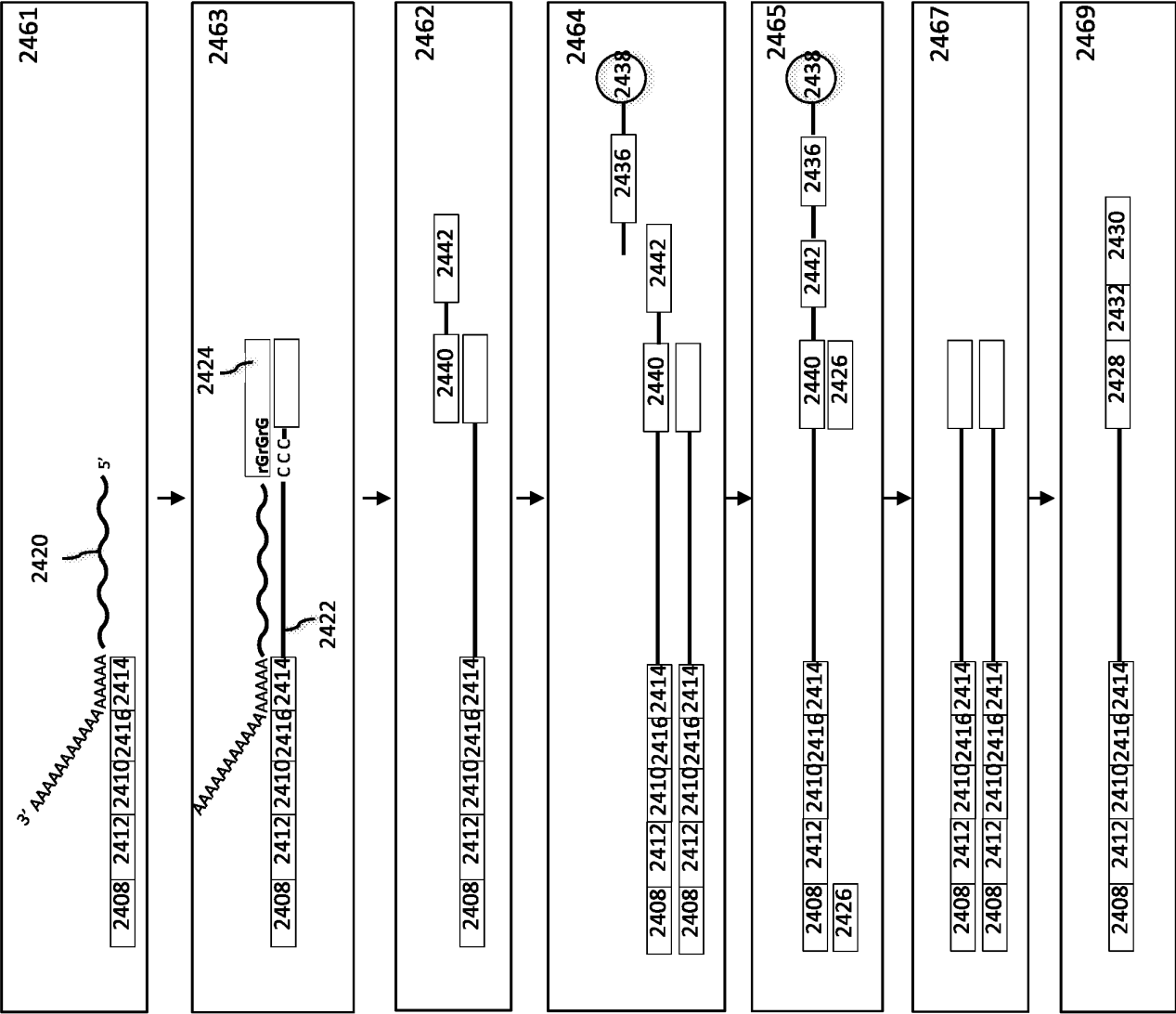


FIG. 24C

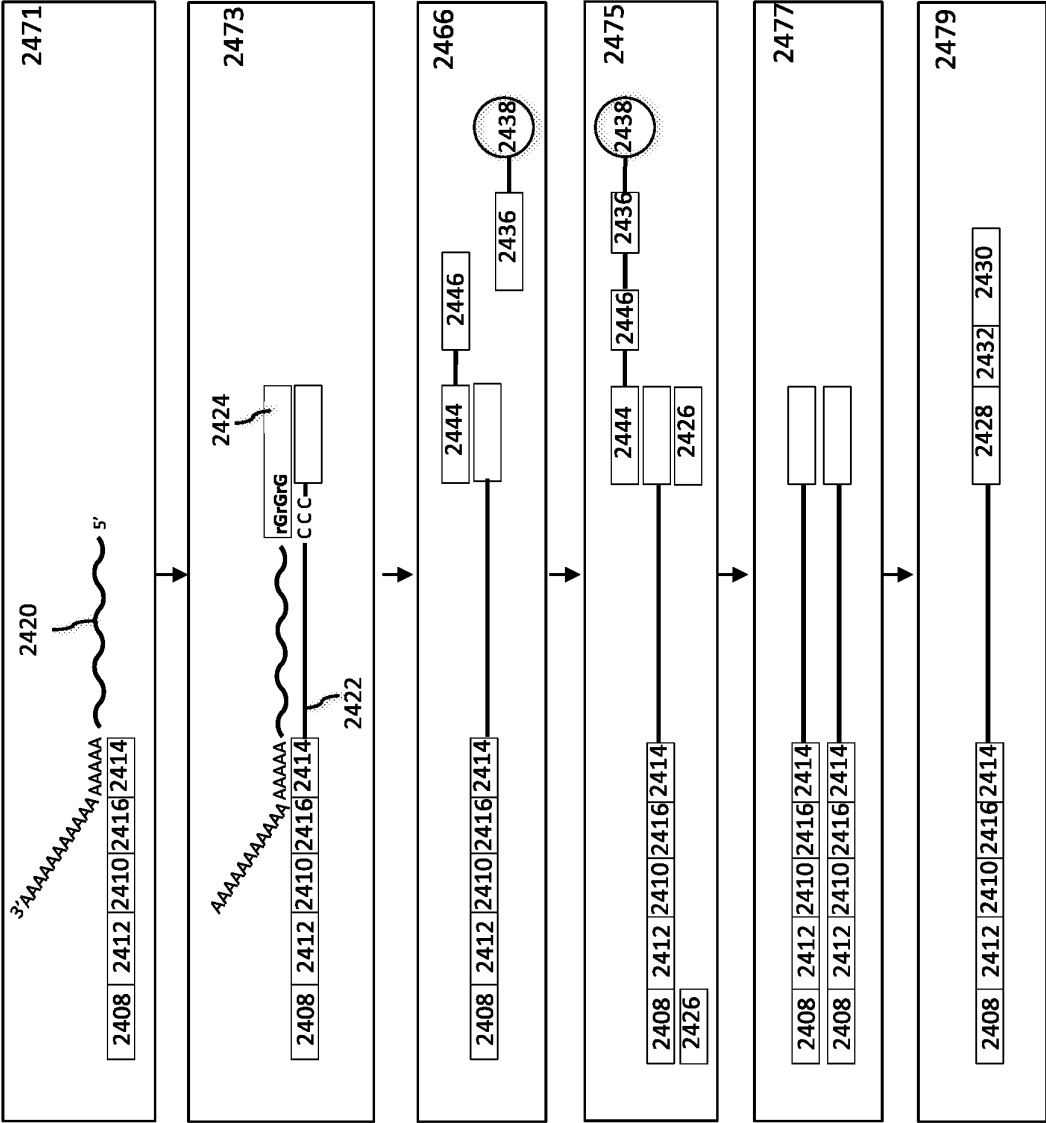


FIG. 24D

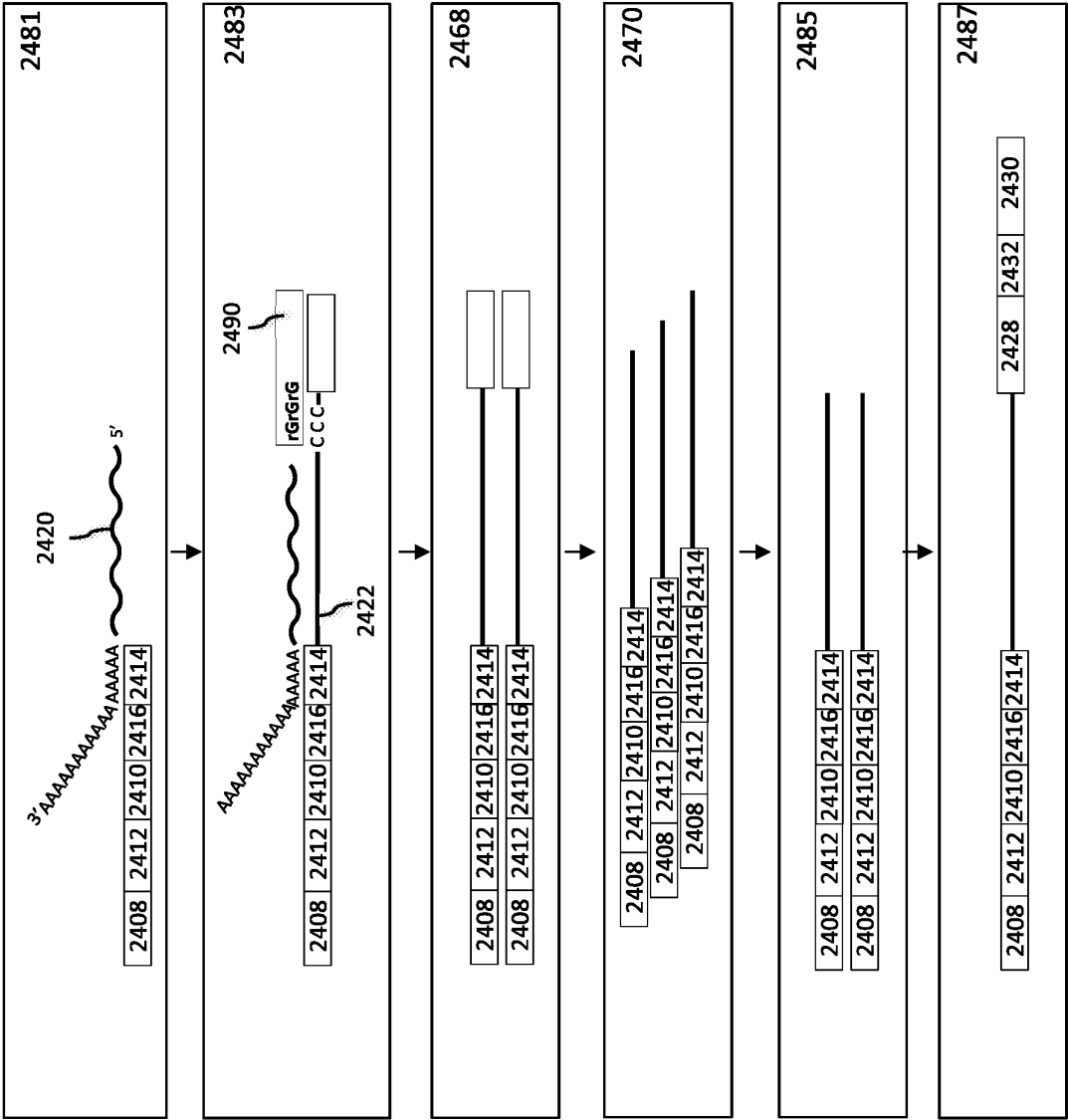


FIG. 24E

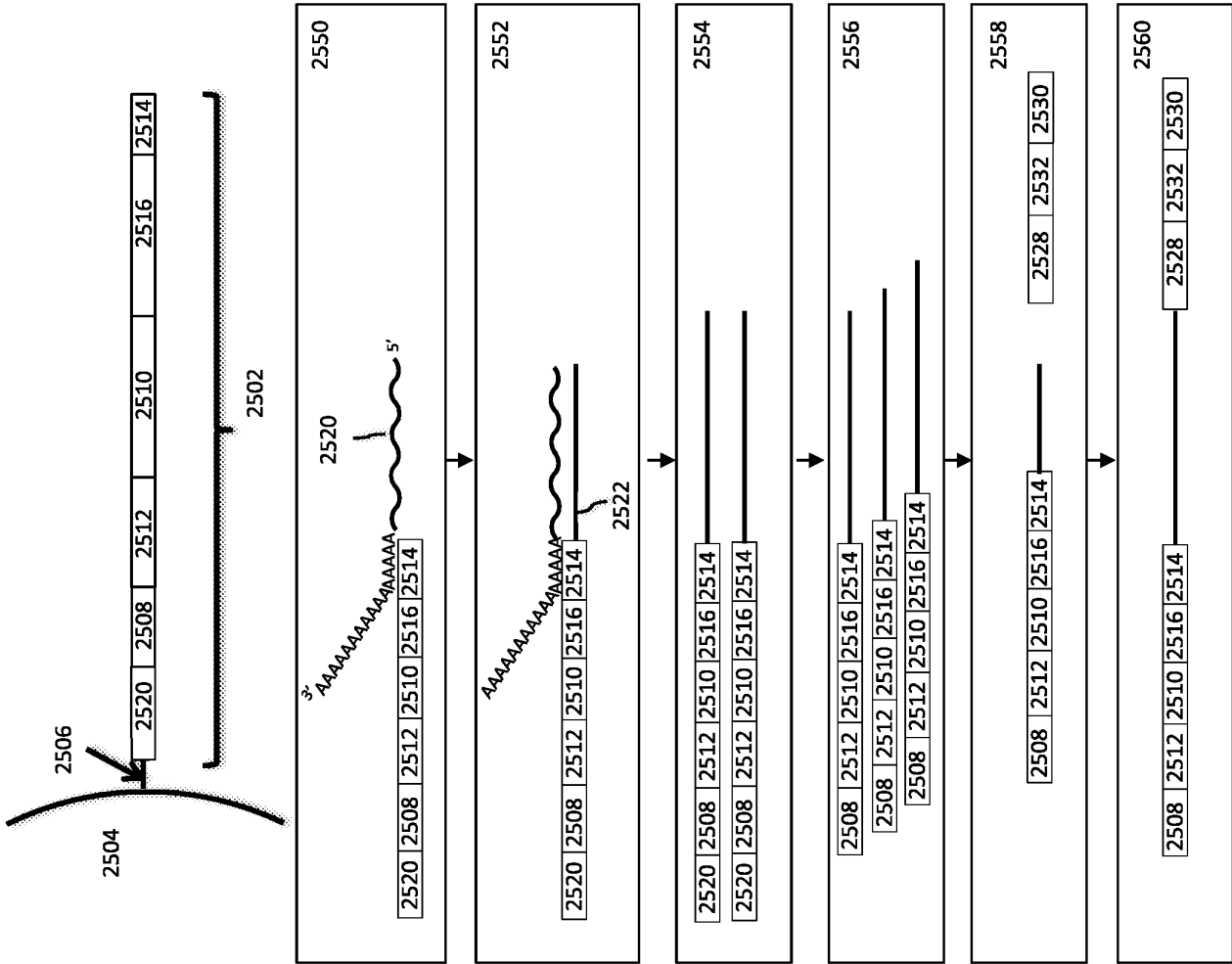


FIG. 25

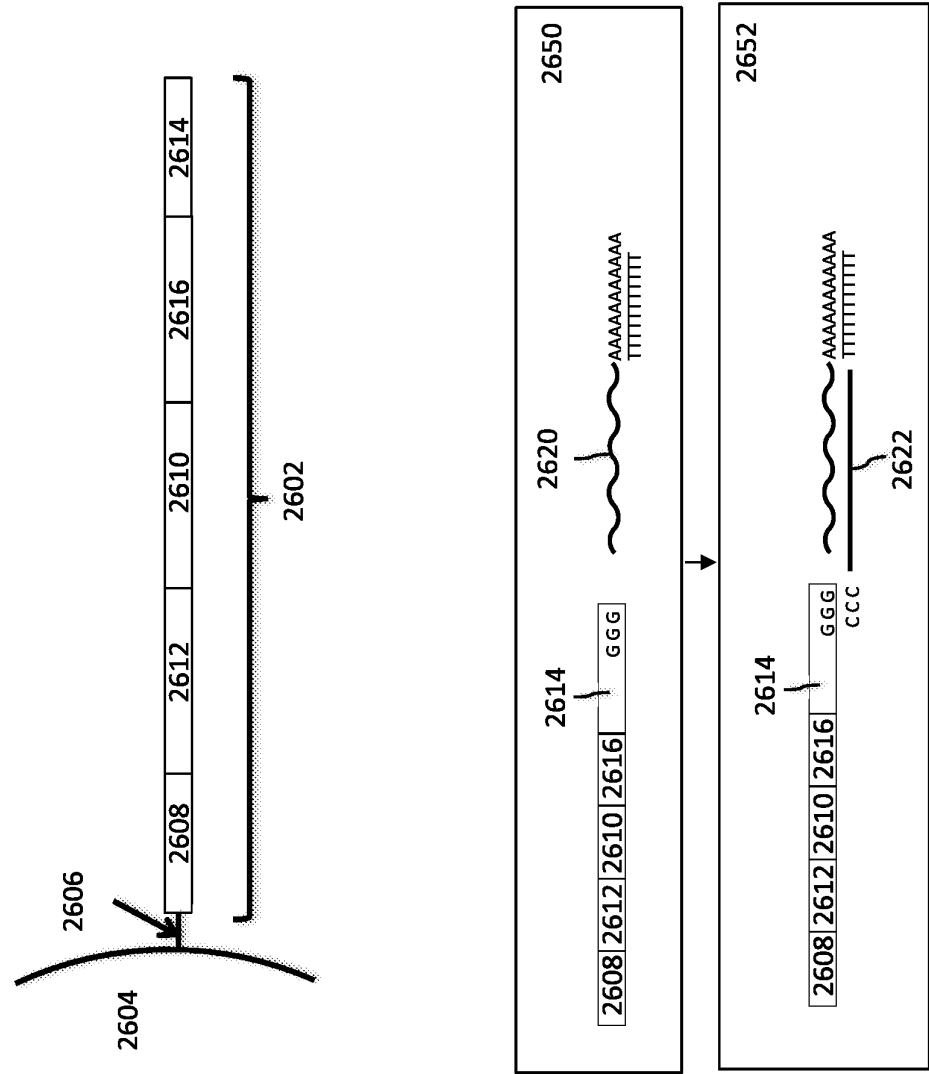


FIG. 26

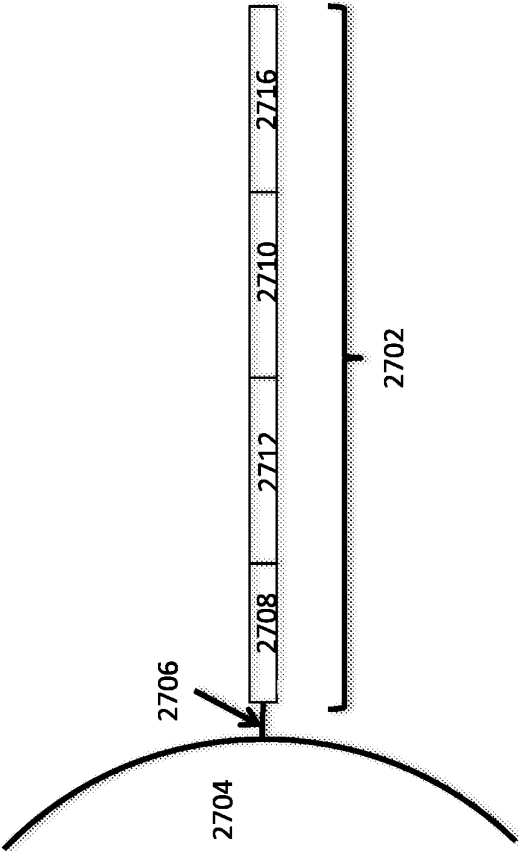


FIG. 27A

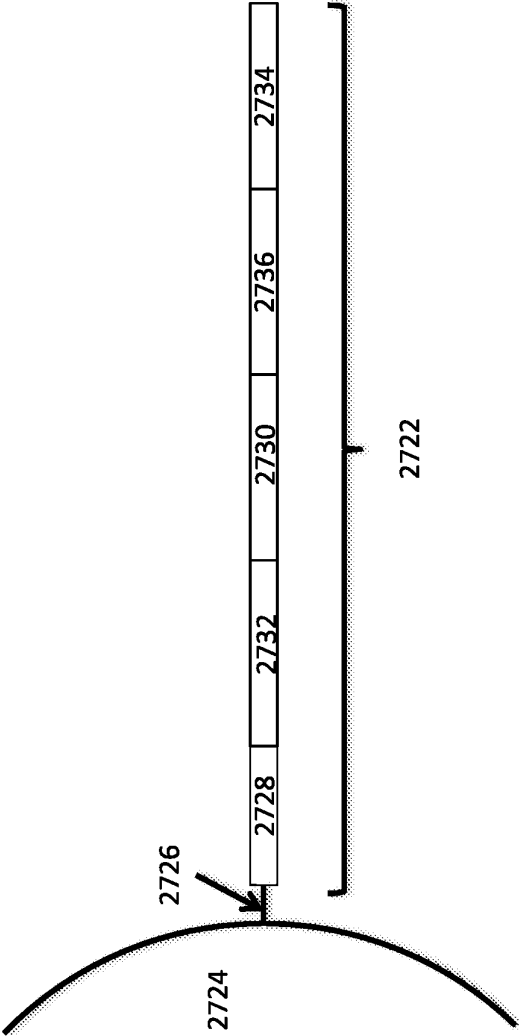


FIG. 27B

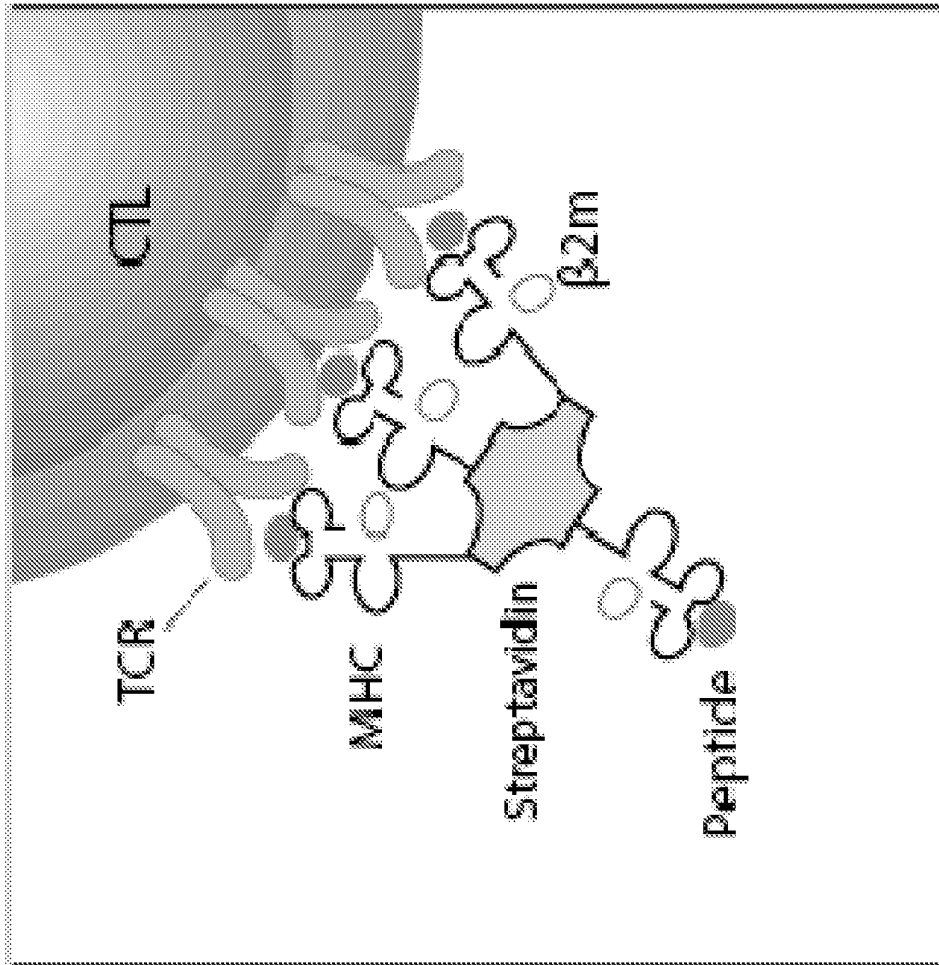
**FIG. 28A**



FIG. 28B

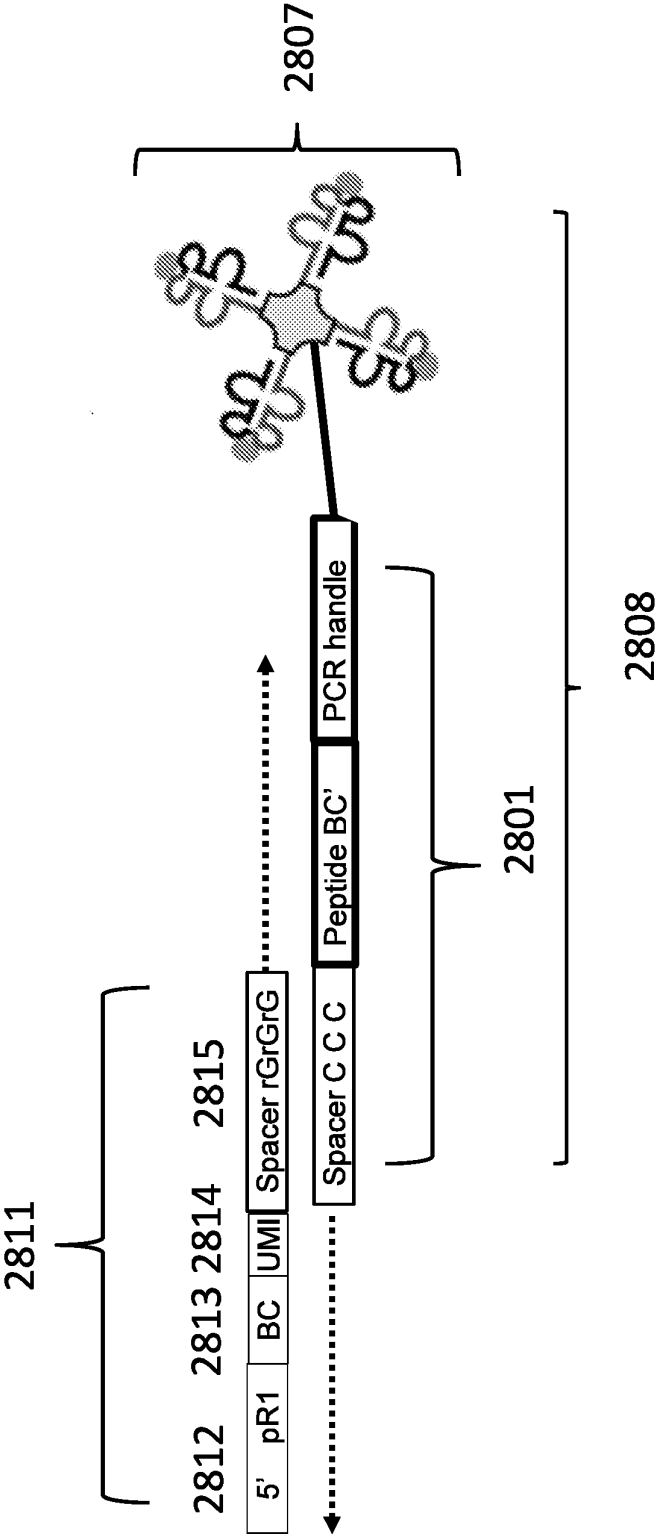
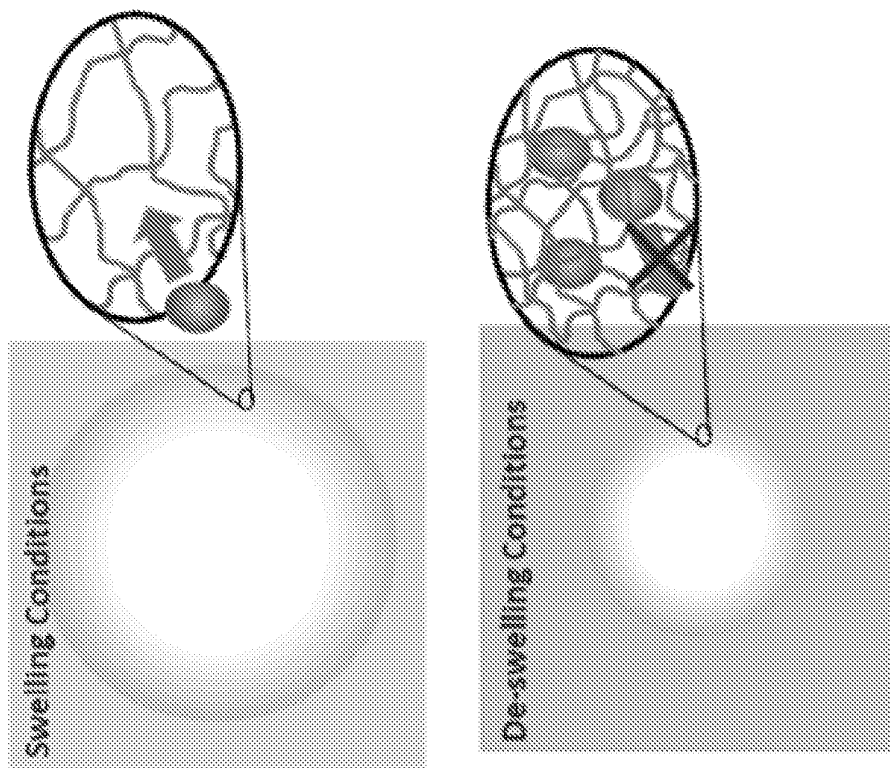
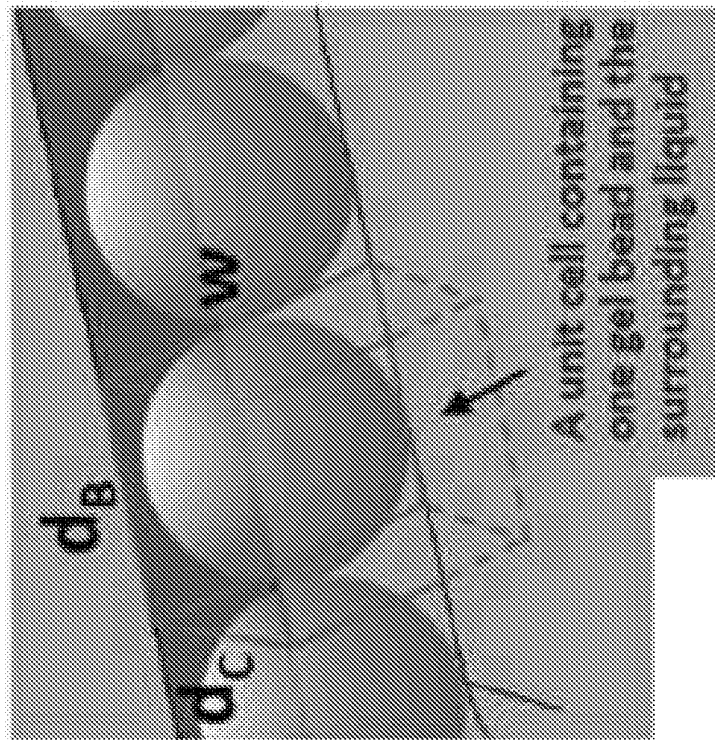
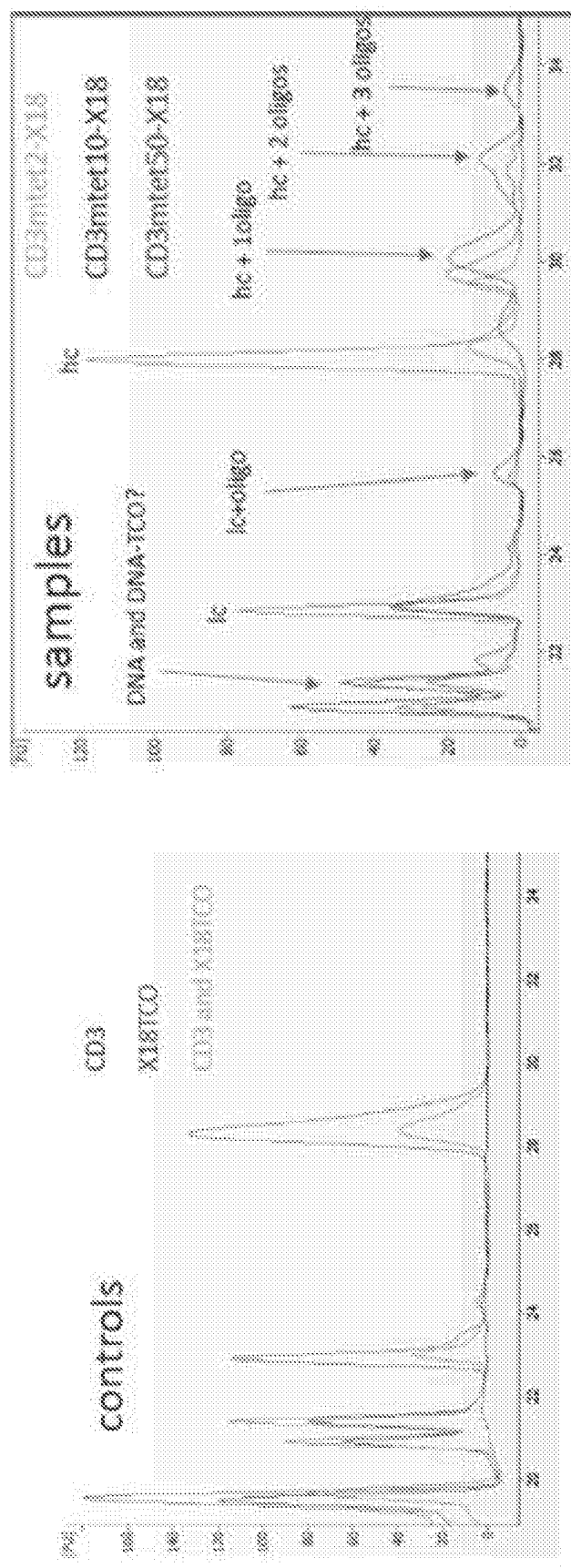


FIG. 28C

**FIG. 29**

**FIG. 30**

**FIG. 31**

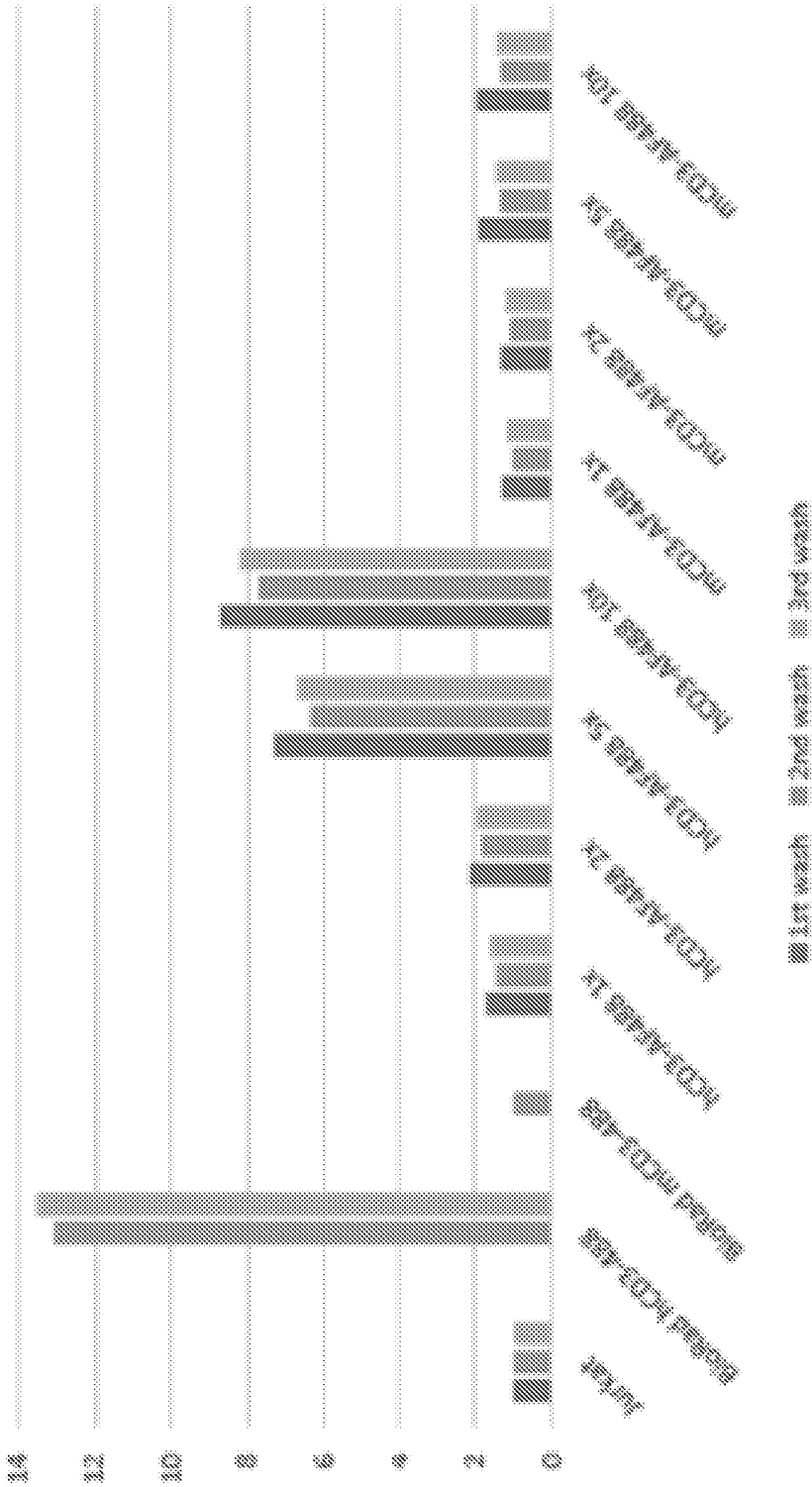


FIG. 32

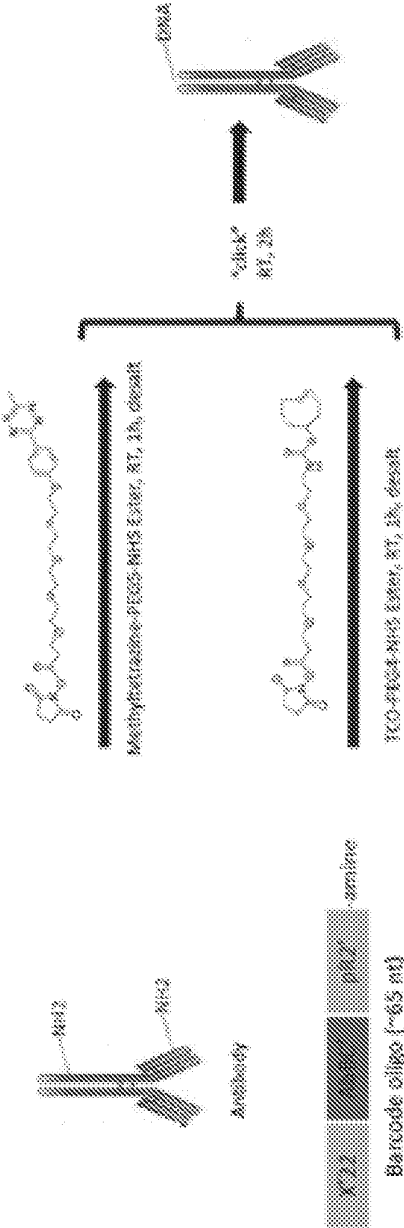


FIG. 33A

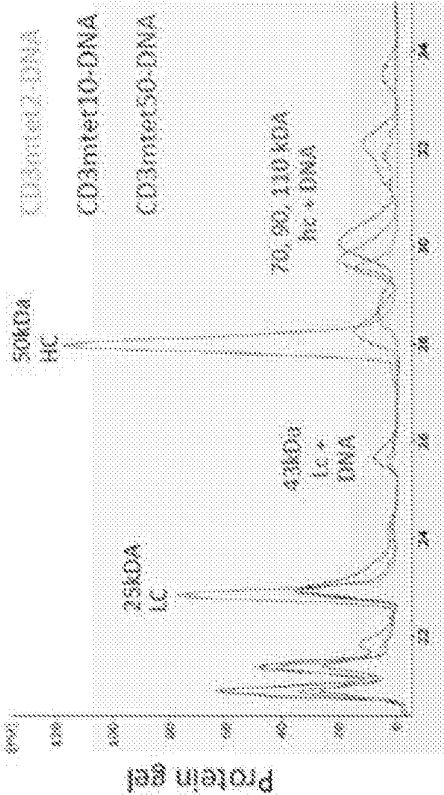


FIG. 33B

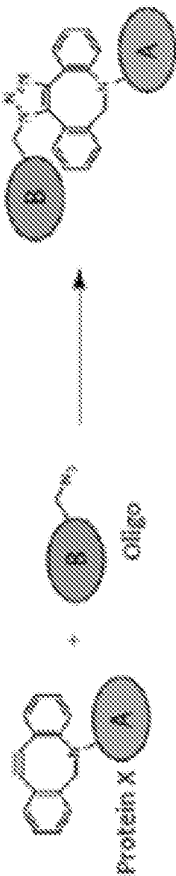


FIG. 34A

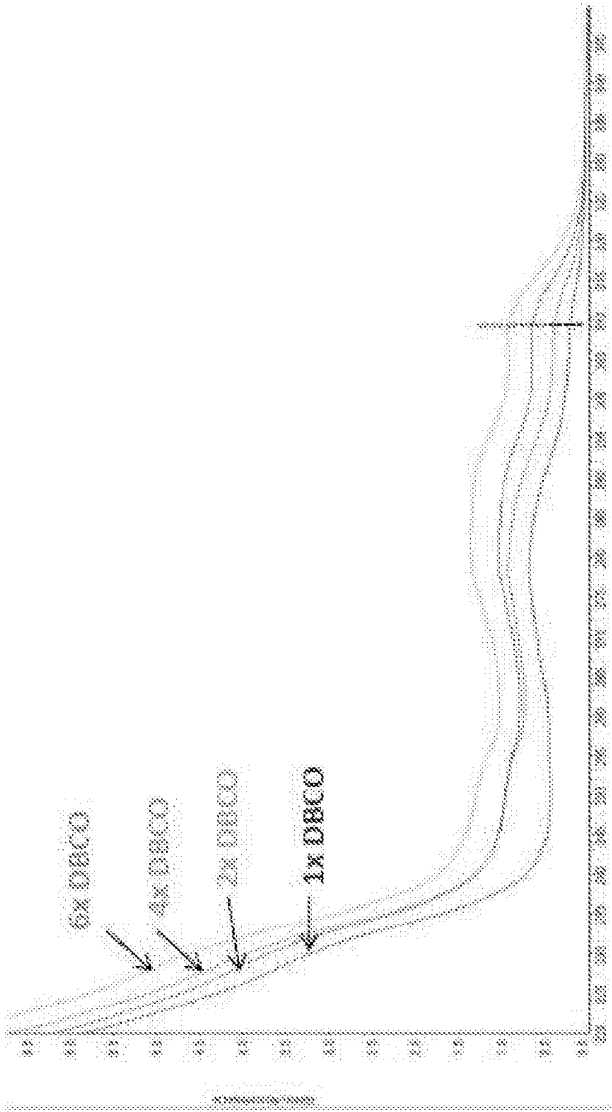


FIG. 34B

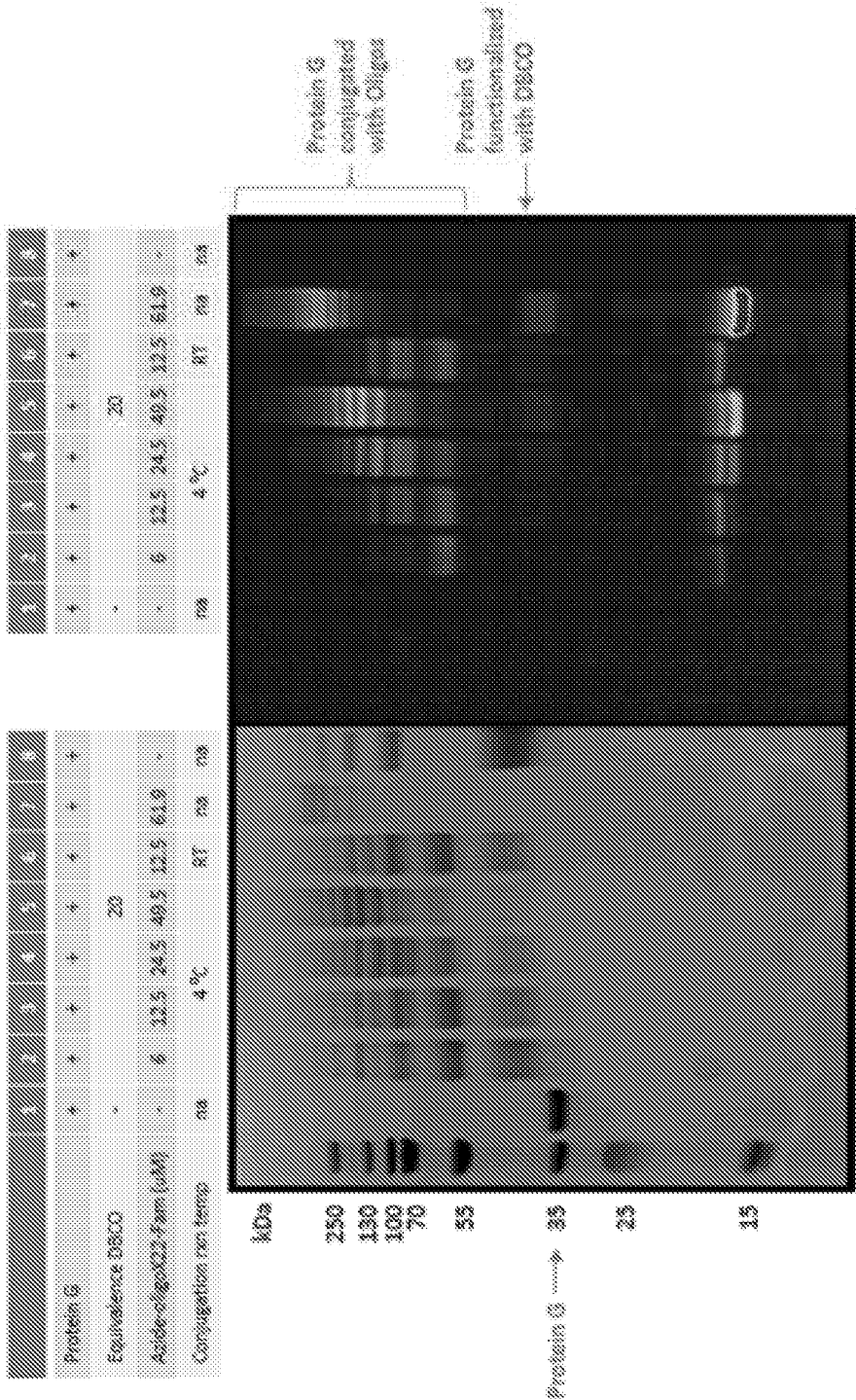


FIG. 34C

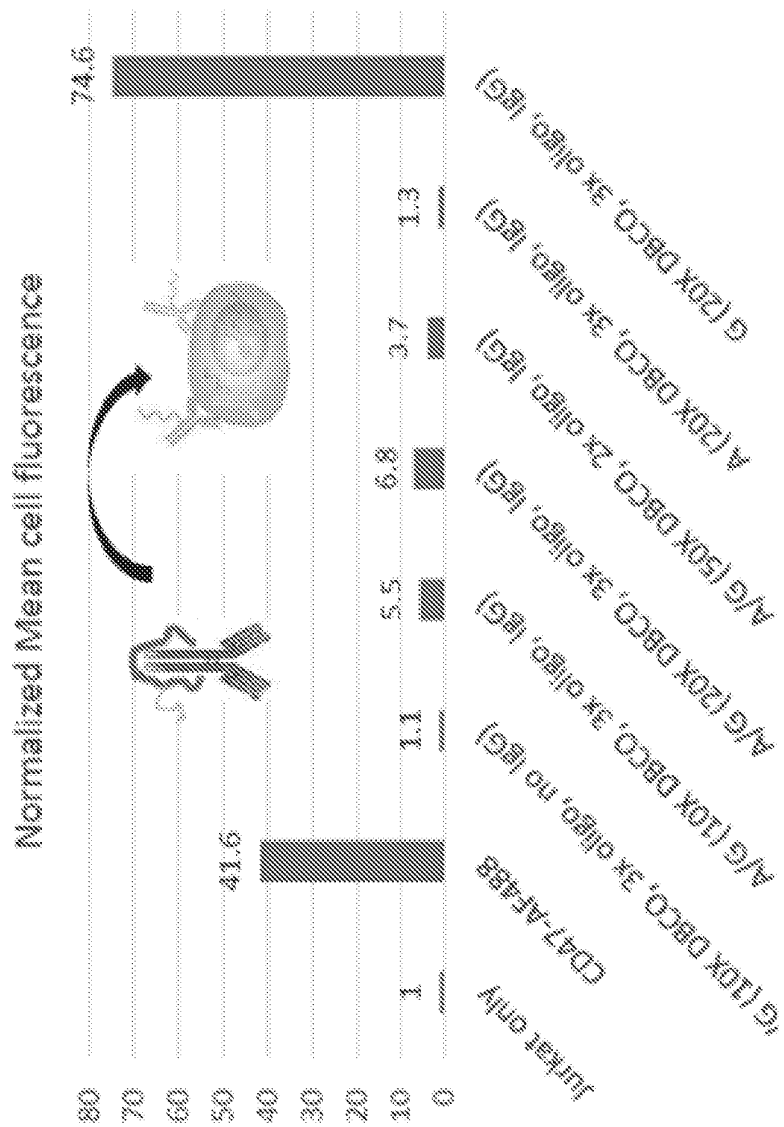
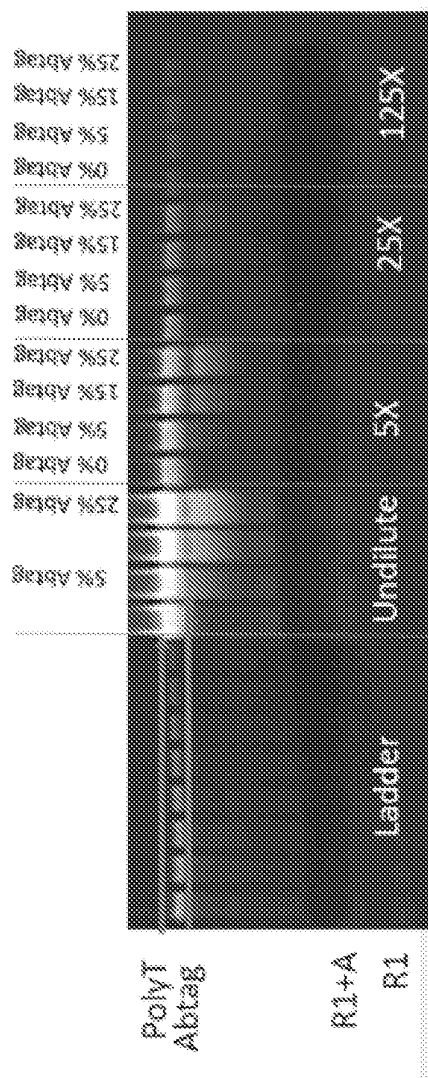
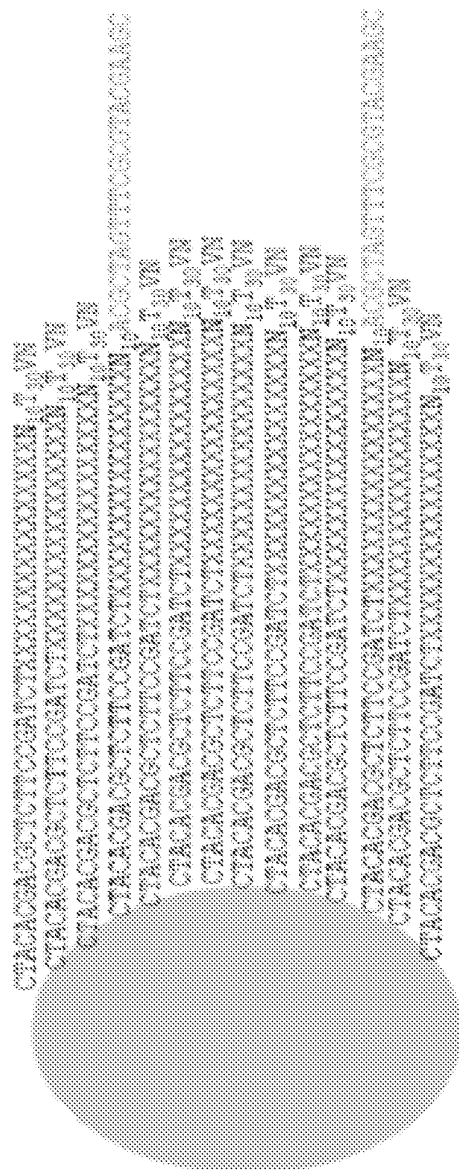


FIG. 34D



FIG. 35A



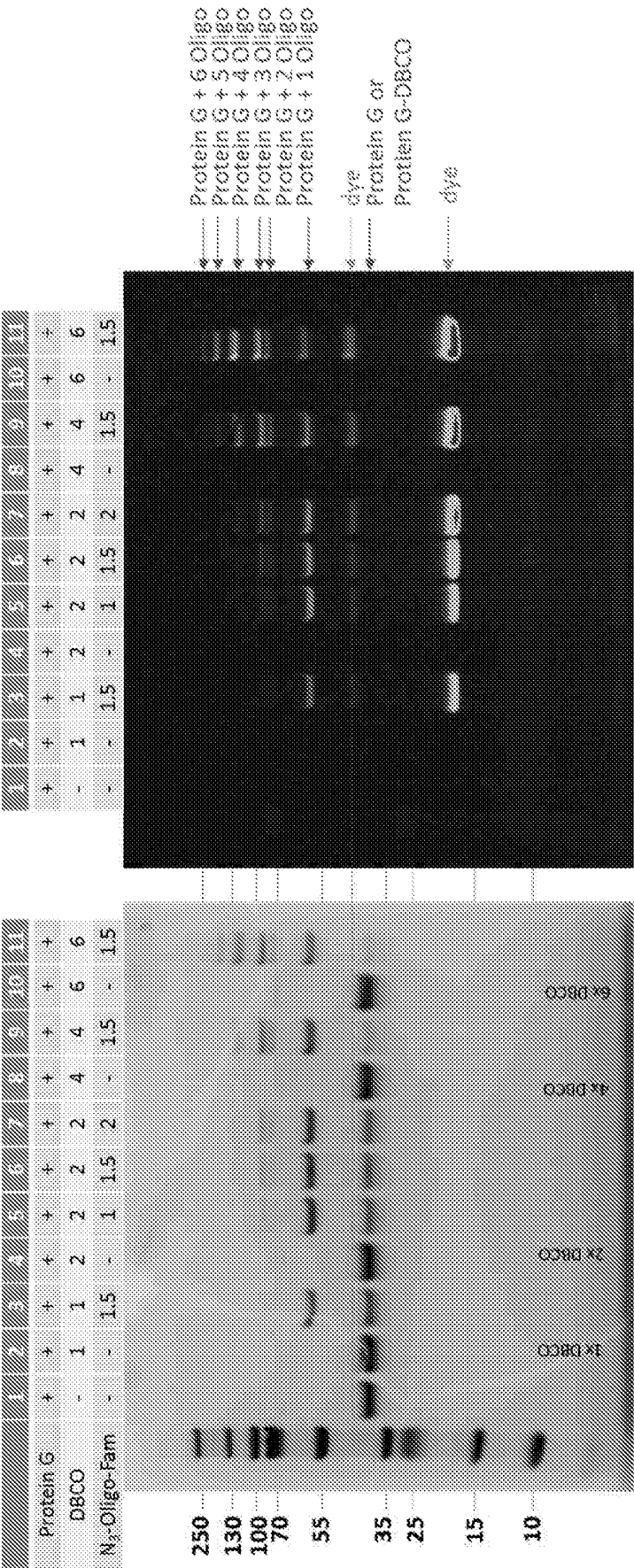
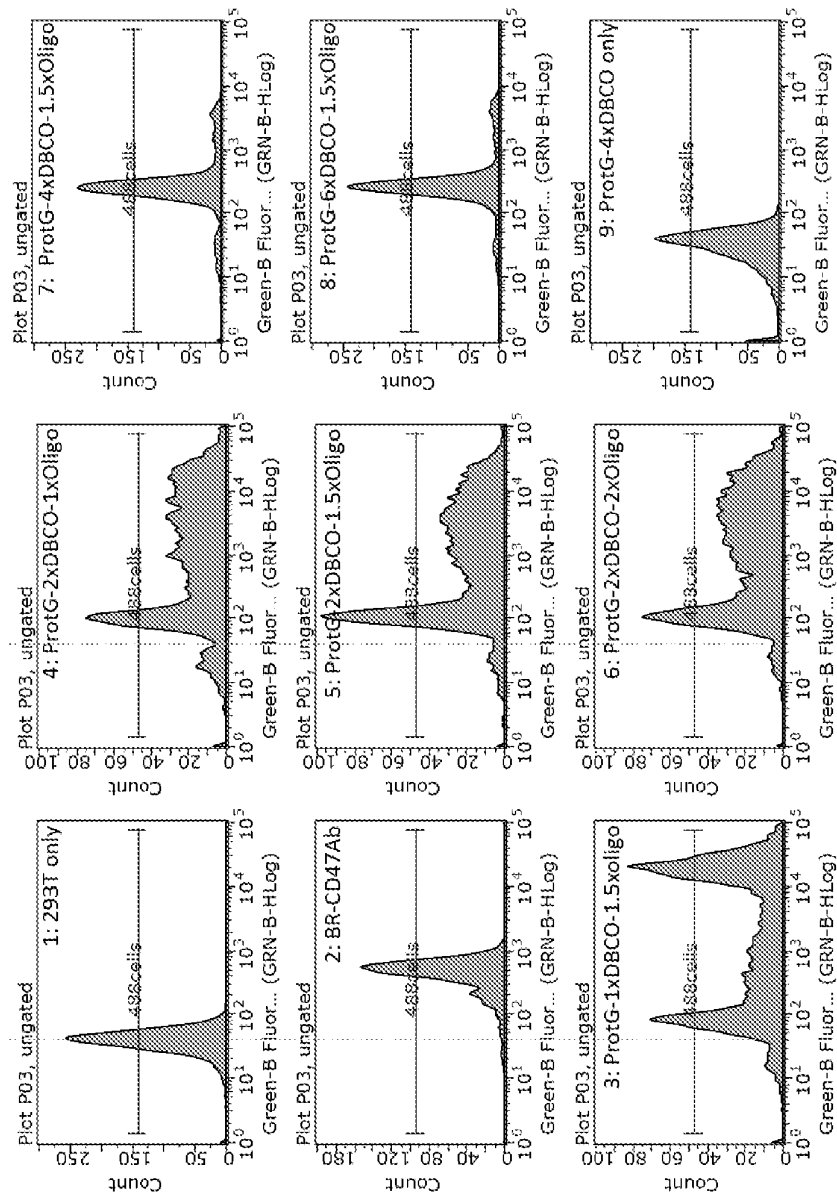


FIG. 36A

Relative Band % (Coomassie gel)							
MW (kDa)	Protein G	1x DBCO 1.5x oligo	2X DBCO			4x DBCO 1.5x oligo	6x DBCO 1.5x oligo
			1x oligo	1.5x oligo	2x oligo		
155.6							7.0
117.6						4.6	20.1
85.0			2.8	4.6	6.9	20.3	21.2
70.0			1.6	2.9	4.0	7.7	5.4
58.2		32.9	46.6	45.8	44.4	44.4	37.2
39.6	100	67.1	49.0	46.7	44.7	23.0	9.1

FIG. 36B

**FIG. 37A**

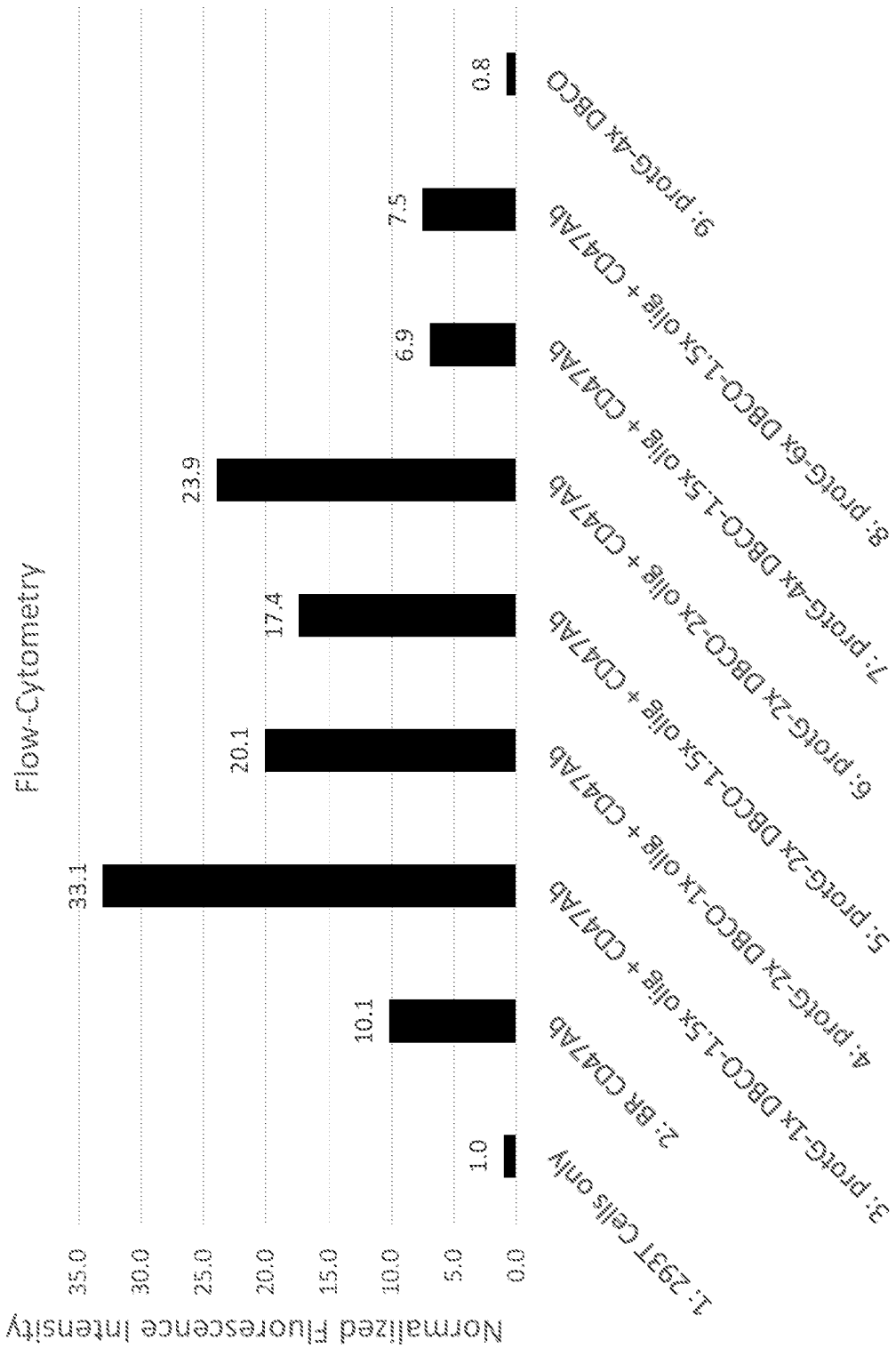


FIG. 37B

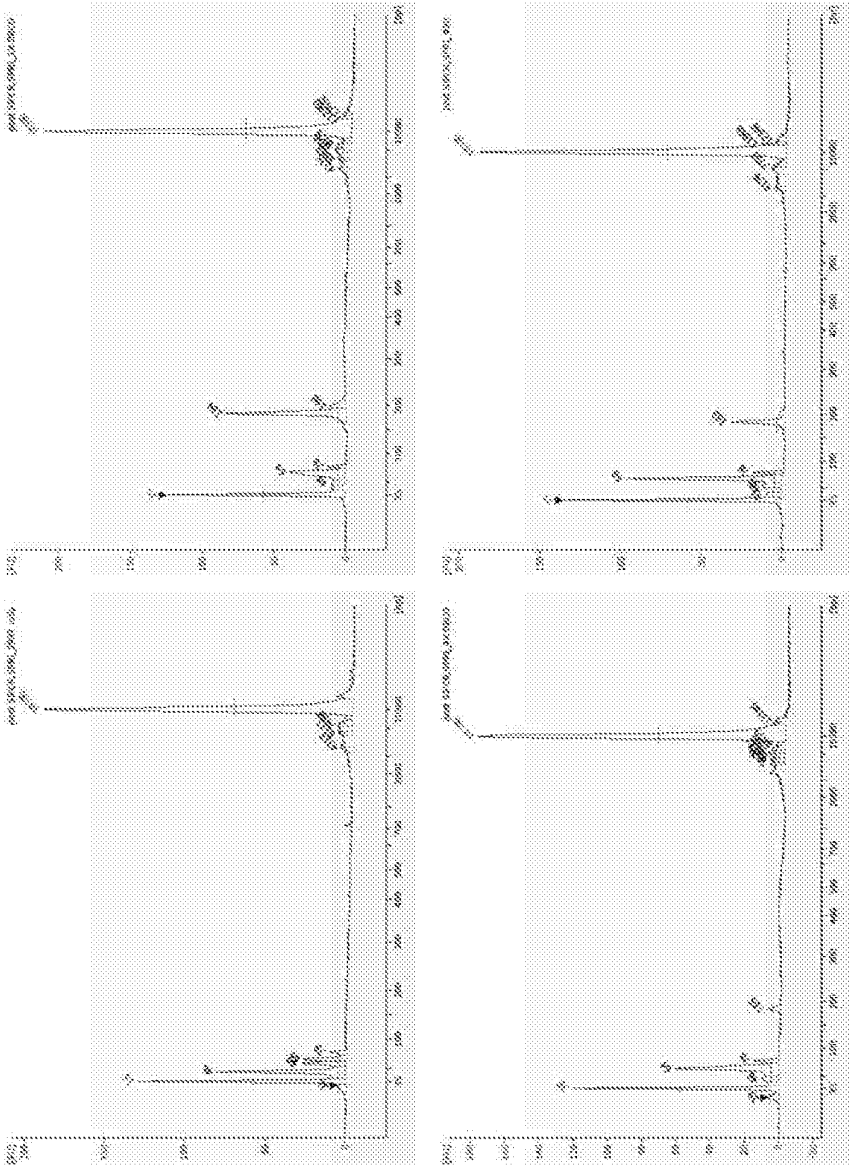
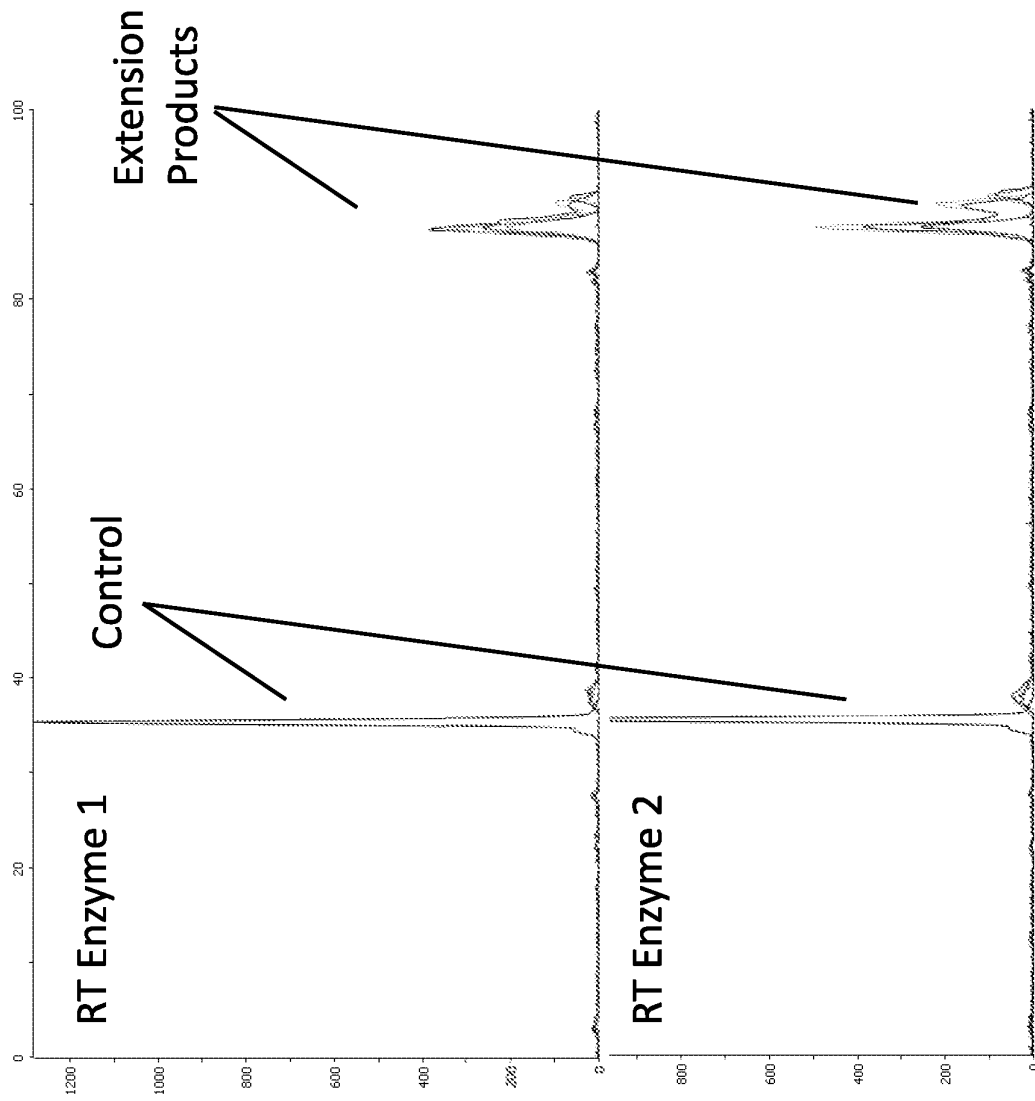
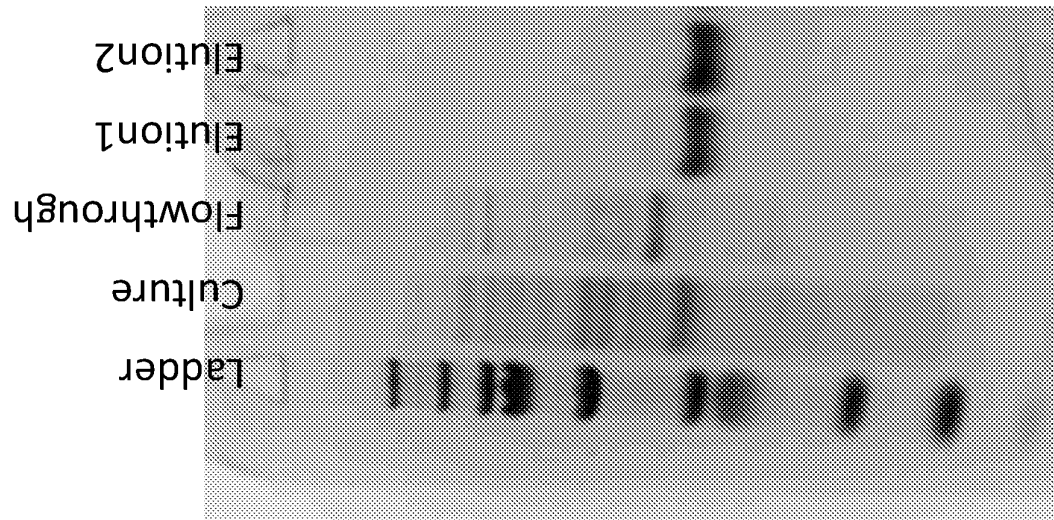


FIG. 38B

Description	Correted Area	Product Peak Size (bp)
293T Cells only	11.0	-
protG-1x DBCO-1.5x oligo + CD47Ab	178.4	184
protG-2x DBCO-2x oligo + CD47Ab	120.5	184
protG-4x DBCO-1.5x oligo + CD47Ab	17.6	185
protG-6x DBCO-1.5x oligo + CD47Ab	32.4	184
protG-TCO/mtet-10x oligo + CD47Ab	45.6	183
protG-oligo	5.0	-

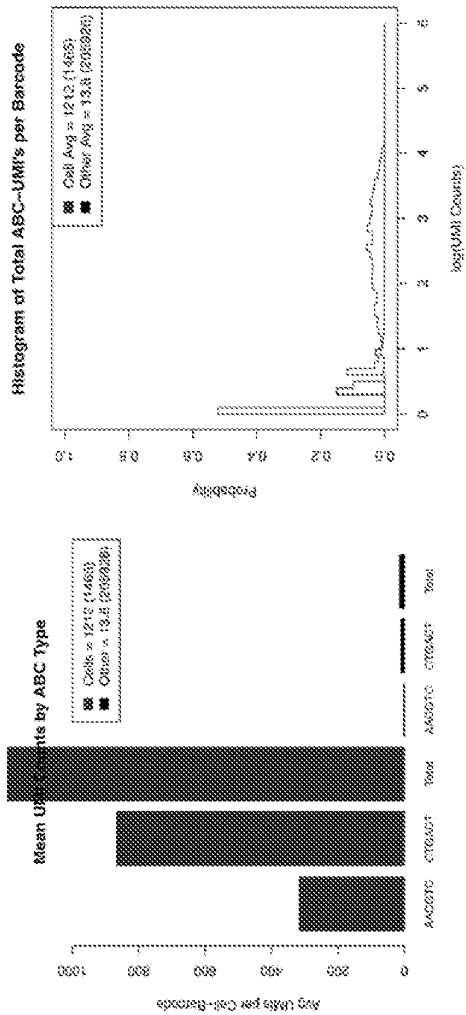
FIG. 38C

**FIG. 39B**

**FIG. 40**

Jurkat + CD47/CD99

I



II

Jurkat + CD47

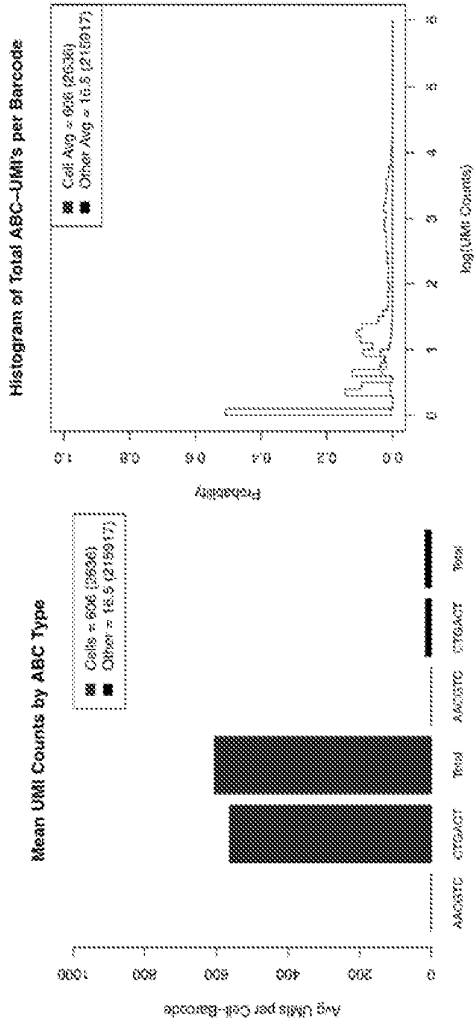


FIG. 41A

Sample	Sample ID	Avg UMIs Per Cell	Avg UMIs Per Other	BC3 per cell	BC4 per cell	Total # of cell BCs detected in AbBC expt	# cells, SCS	# cells, AbBC topN (%cells, SCS)	AbBC topN cells / SCS cells	AbBC called cells	AbBC cells / SCS cells	SCS cells / AbBC topN / SCS cells	BCAb cells / SCS cells
Unbiased Jurkat + BC4	33600	498	13.9	64547	635932	128483	1419	1418	378	1352	378	0.27	0.27
Unbiased Jurkat + BC3/4	33601	577	17.1	247587	408818	126516	1141	1141	368	993	316	0.92	0.92
Unbiased Jurkat + BC4	33602	996	9.14	1474578	6119	144763	3505	3504	963	1193	762	0.57	0.54
Unbiased Jurkat spike BC3/4	33603	36.8	34.1	1383	71914	206337	1898	1880	103	62634	1578	0.05	0.03

FIG. 41B

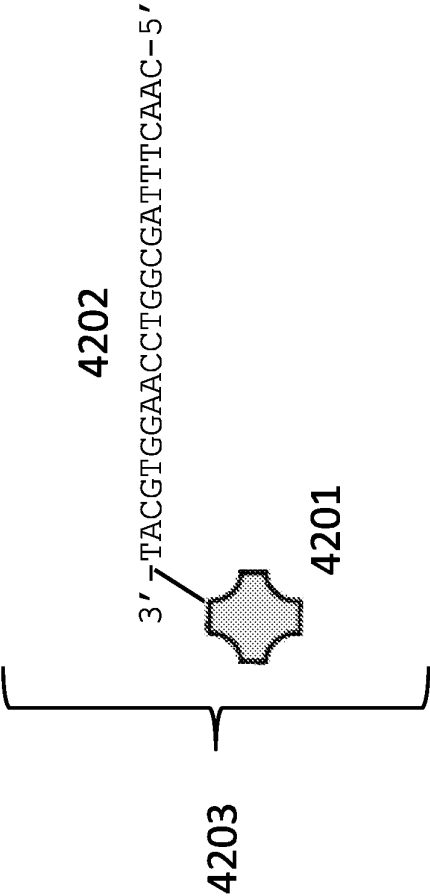


FIG. 42A

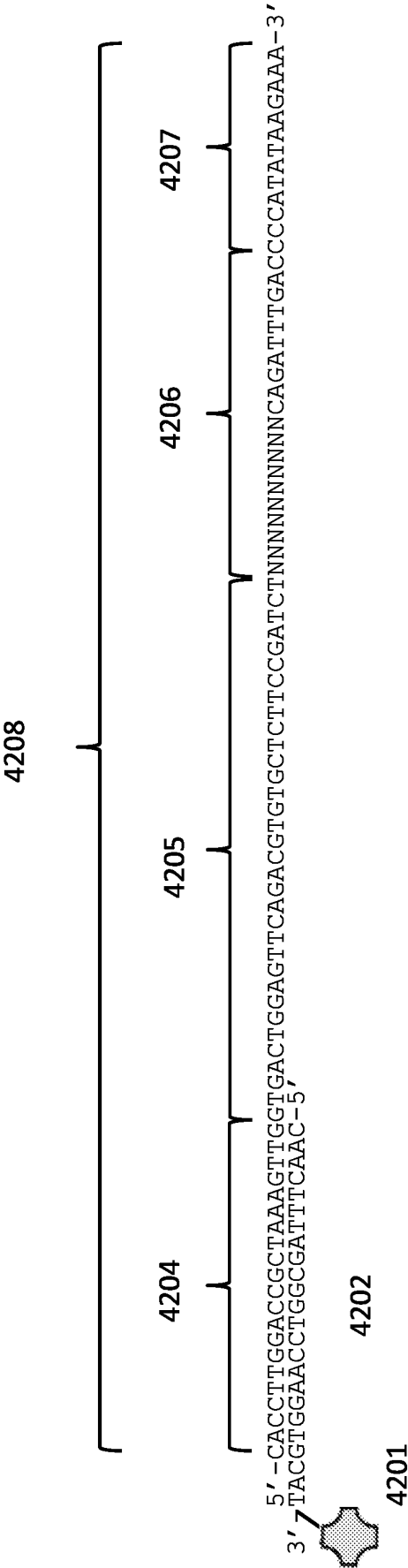


FIG. 42B

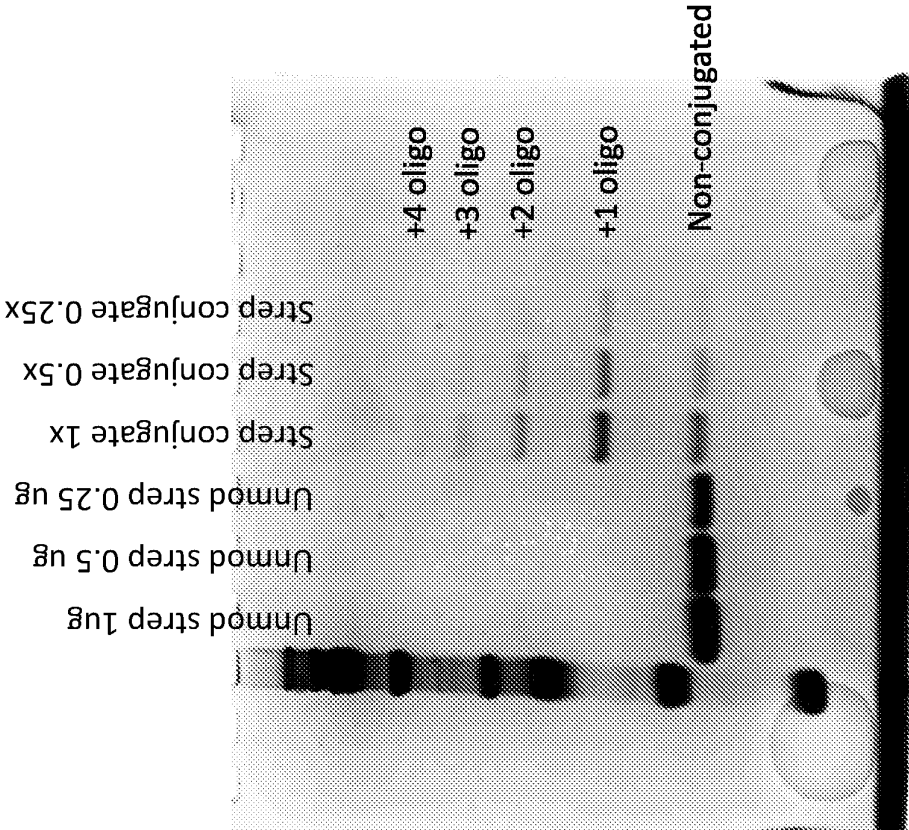


FIG. 43B

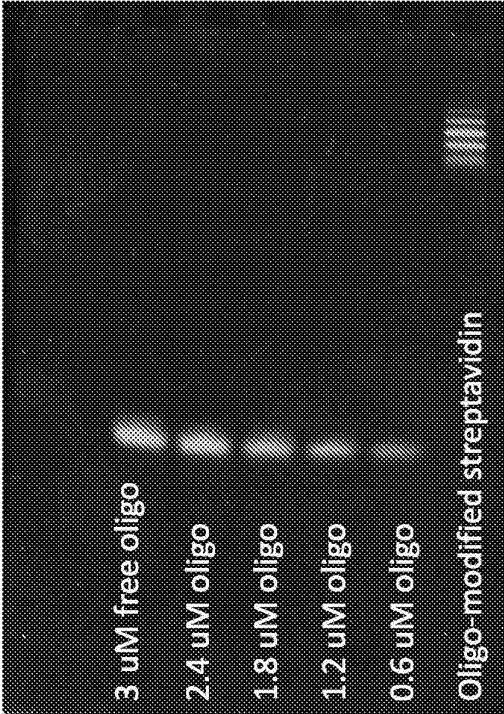


FIG. 43A

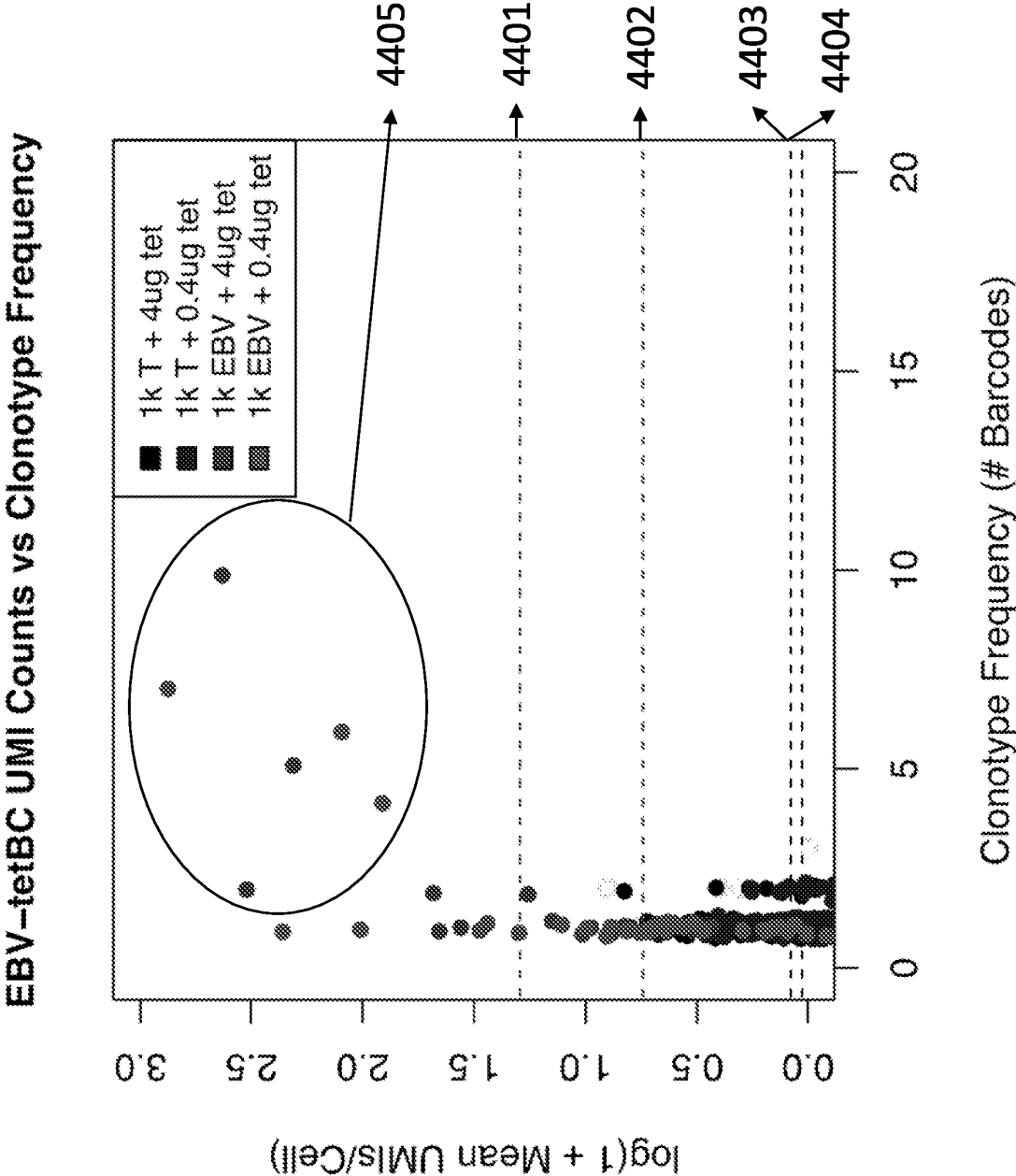


FIG. 44

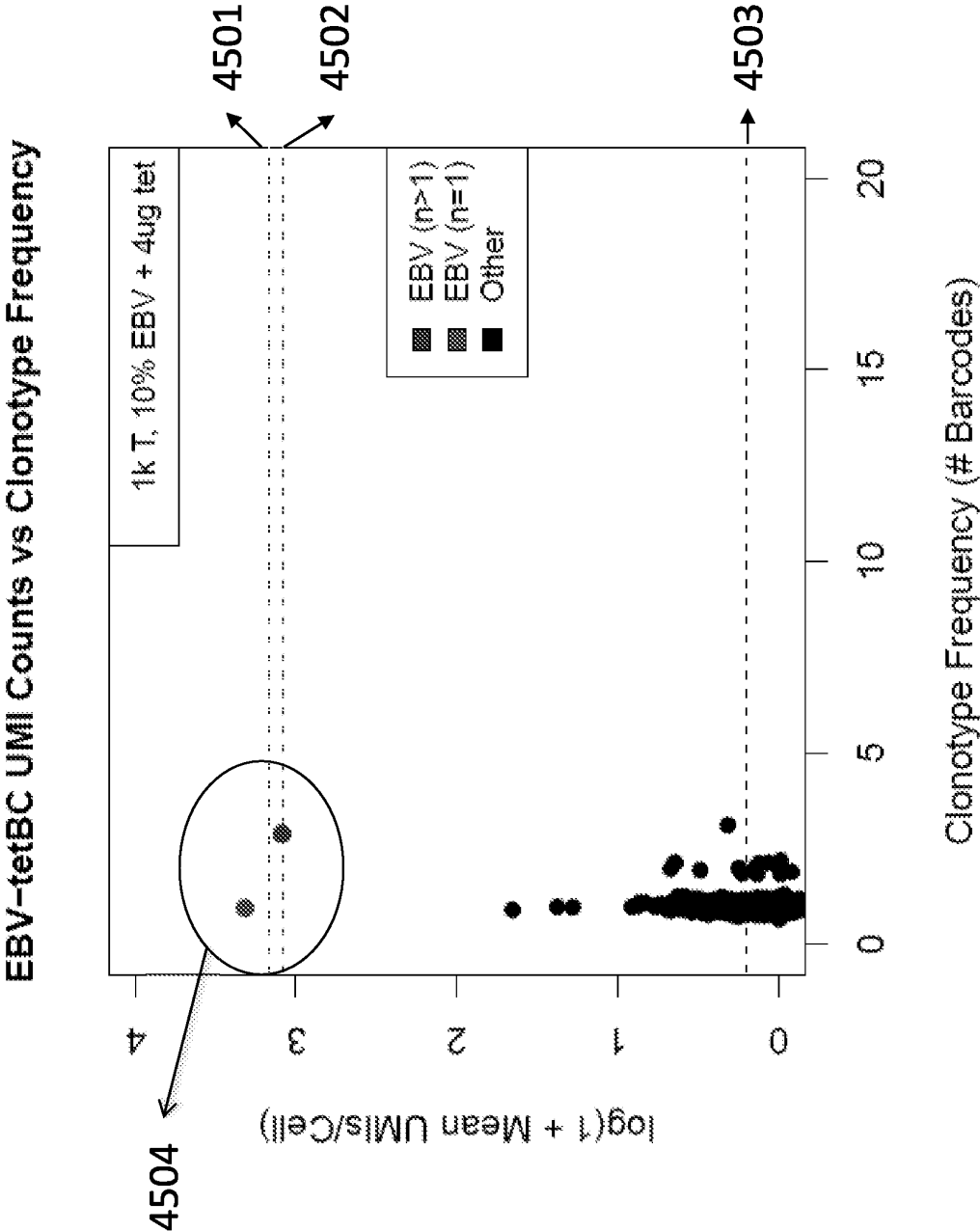


FIG. 45

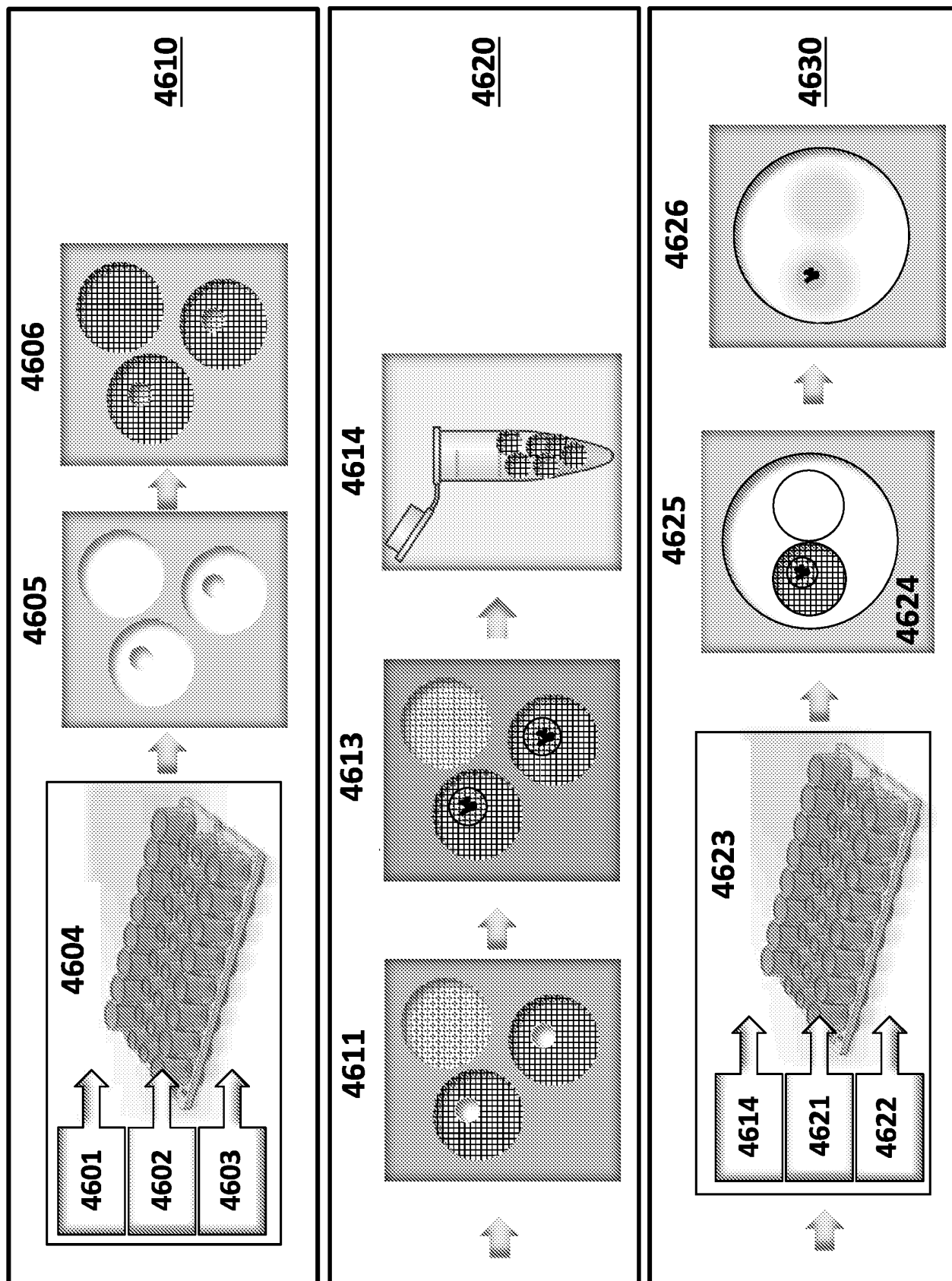


FIG. 46A

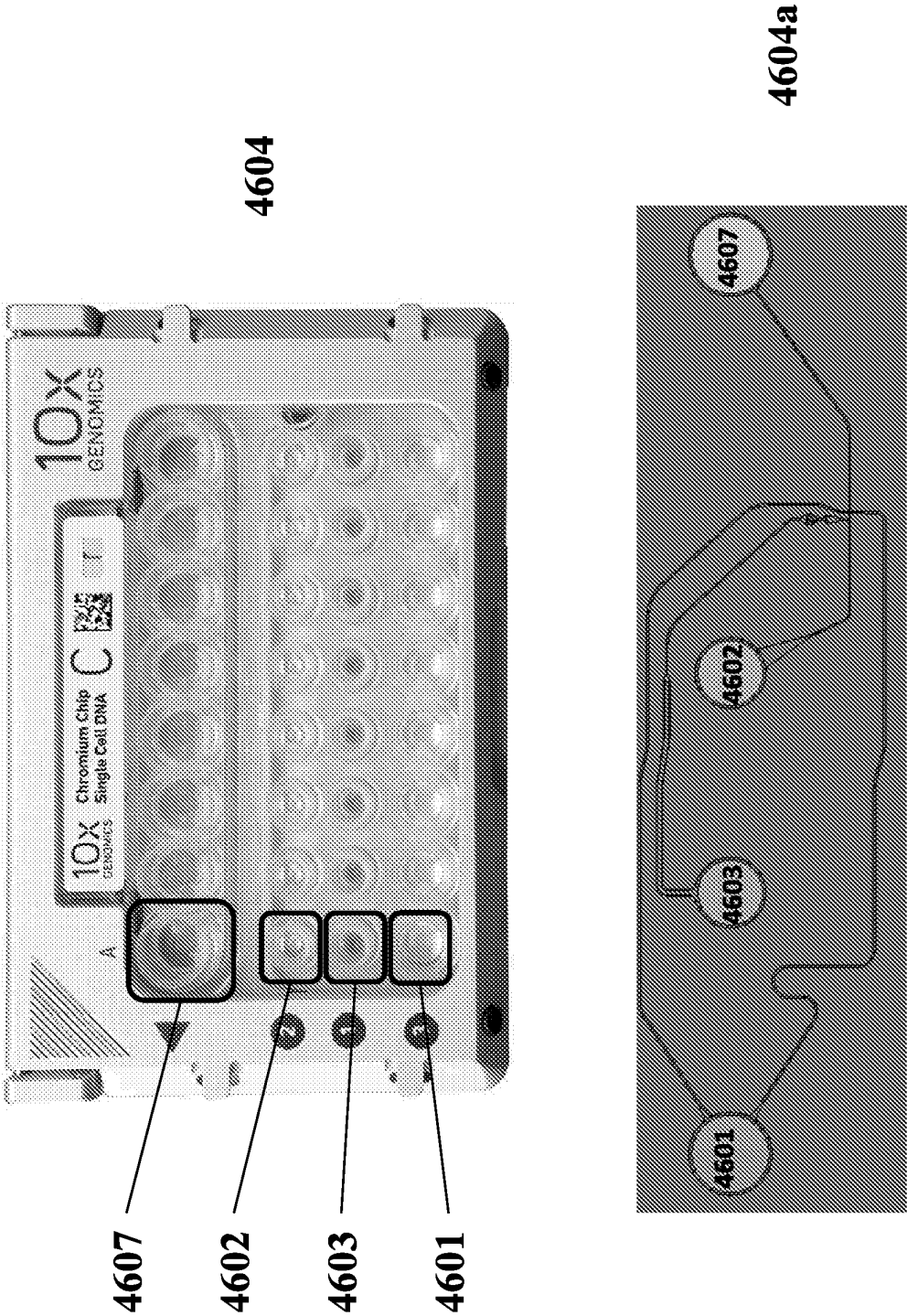


FIG. 46B

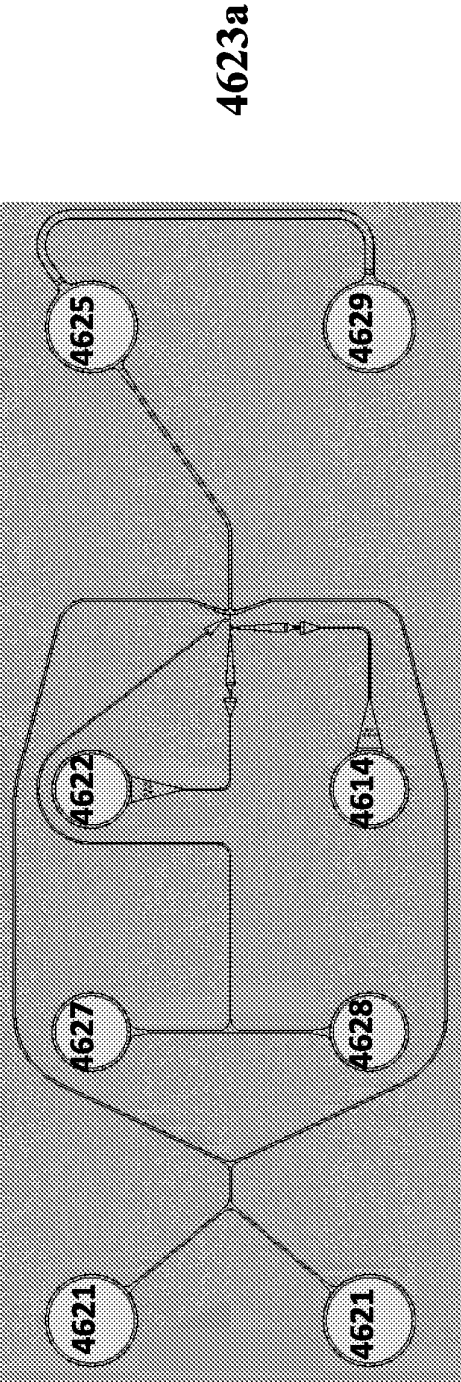
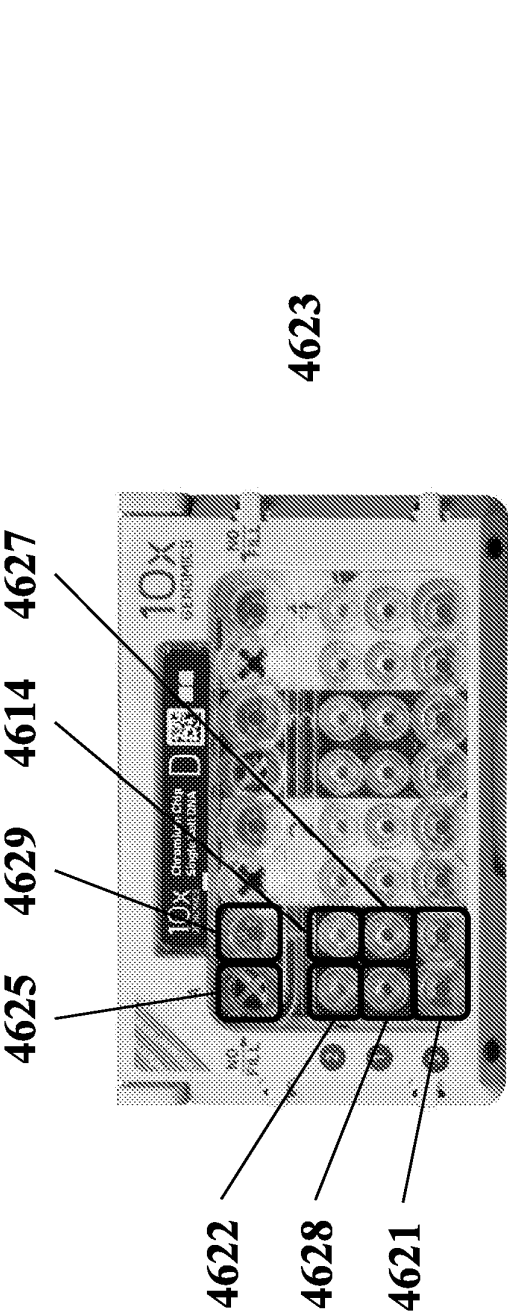


FIG. 46C

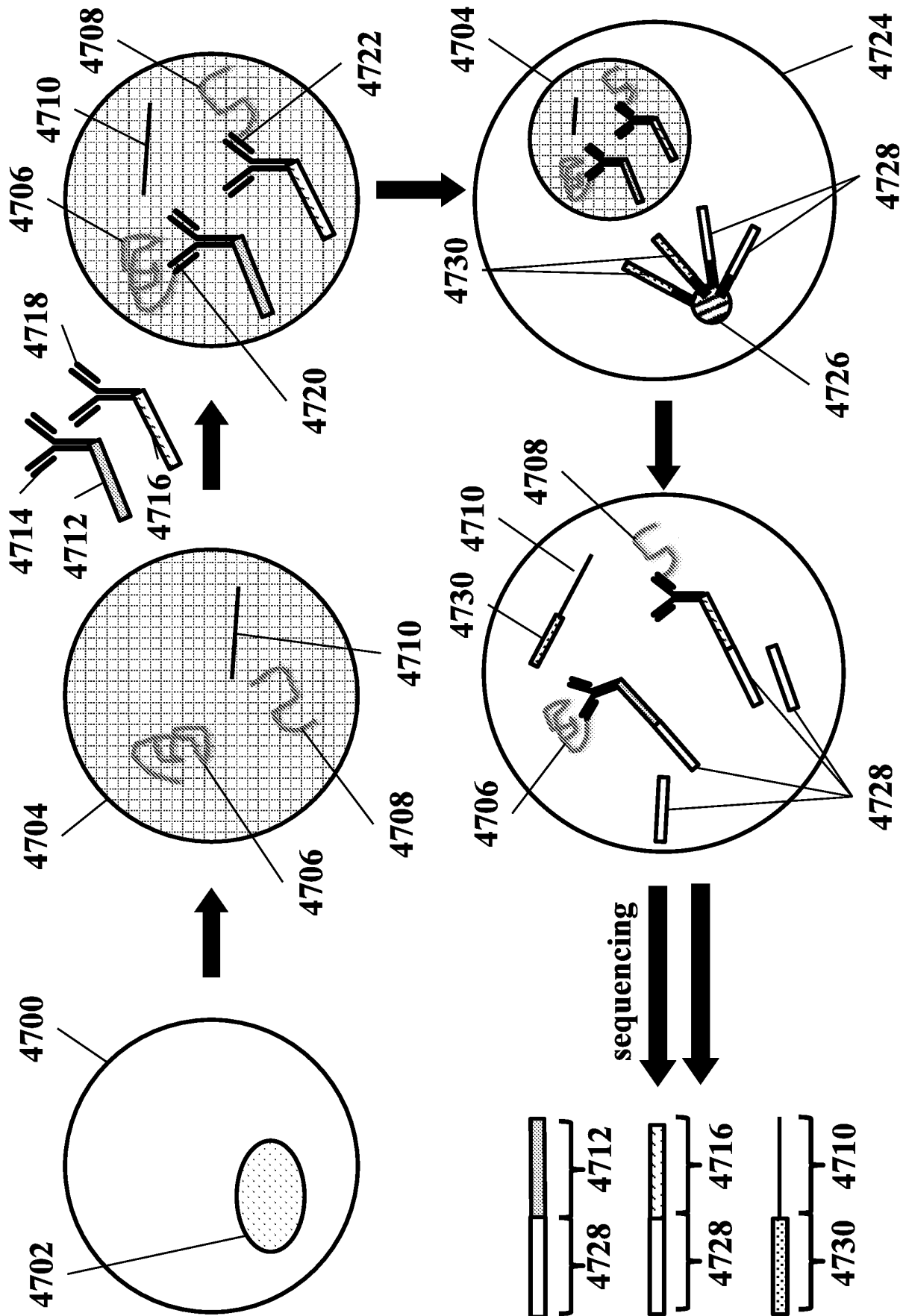
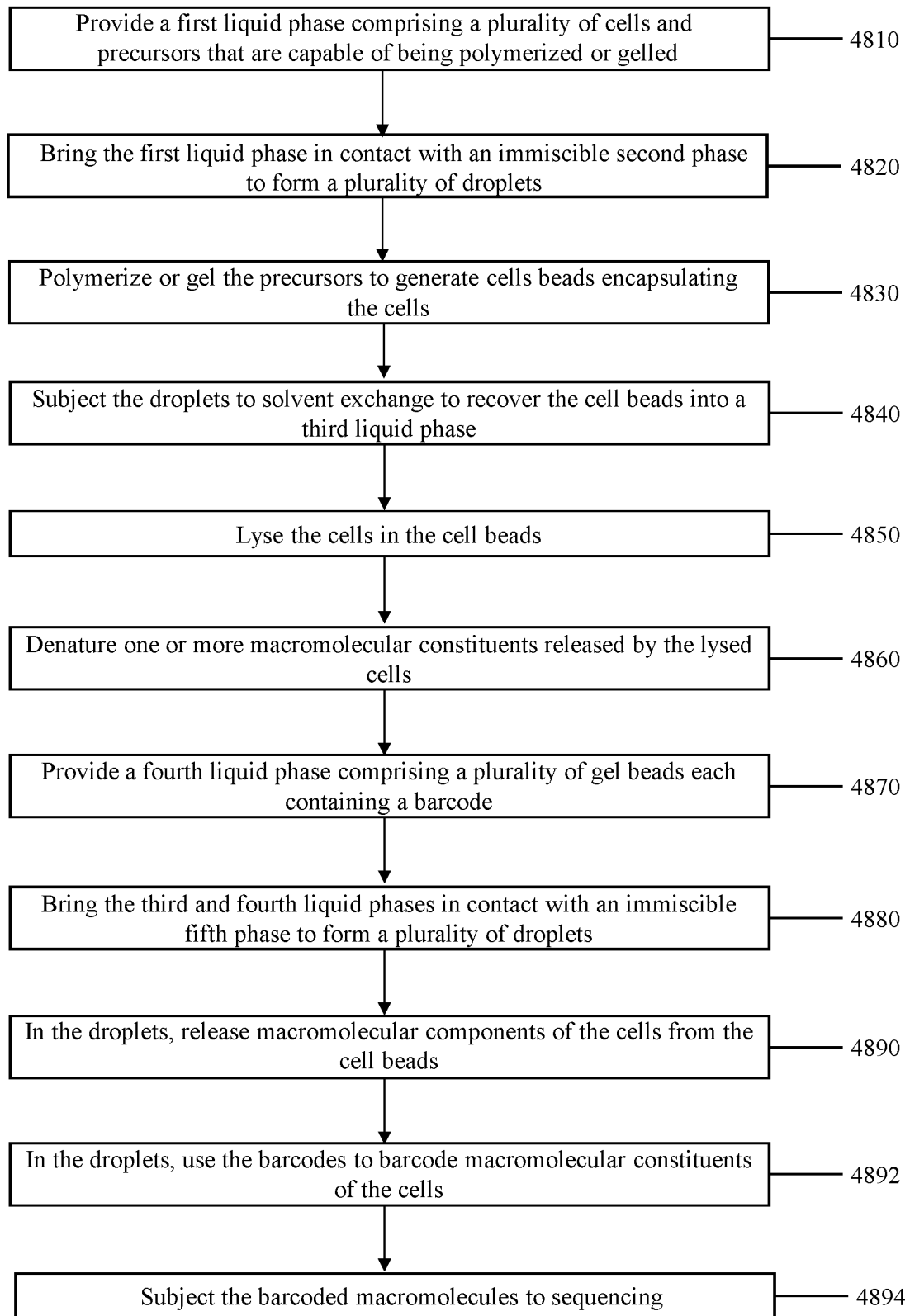
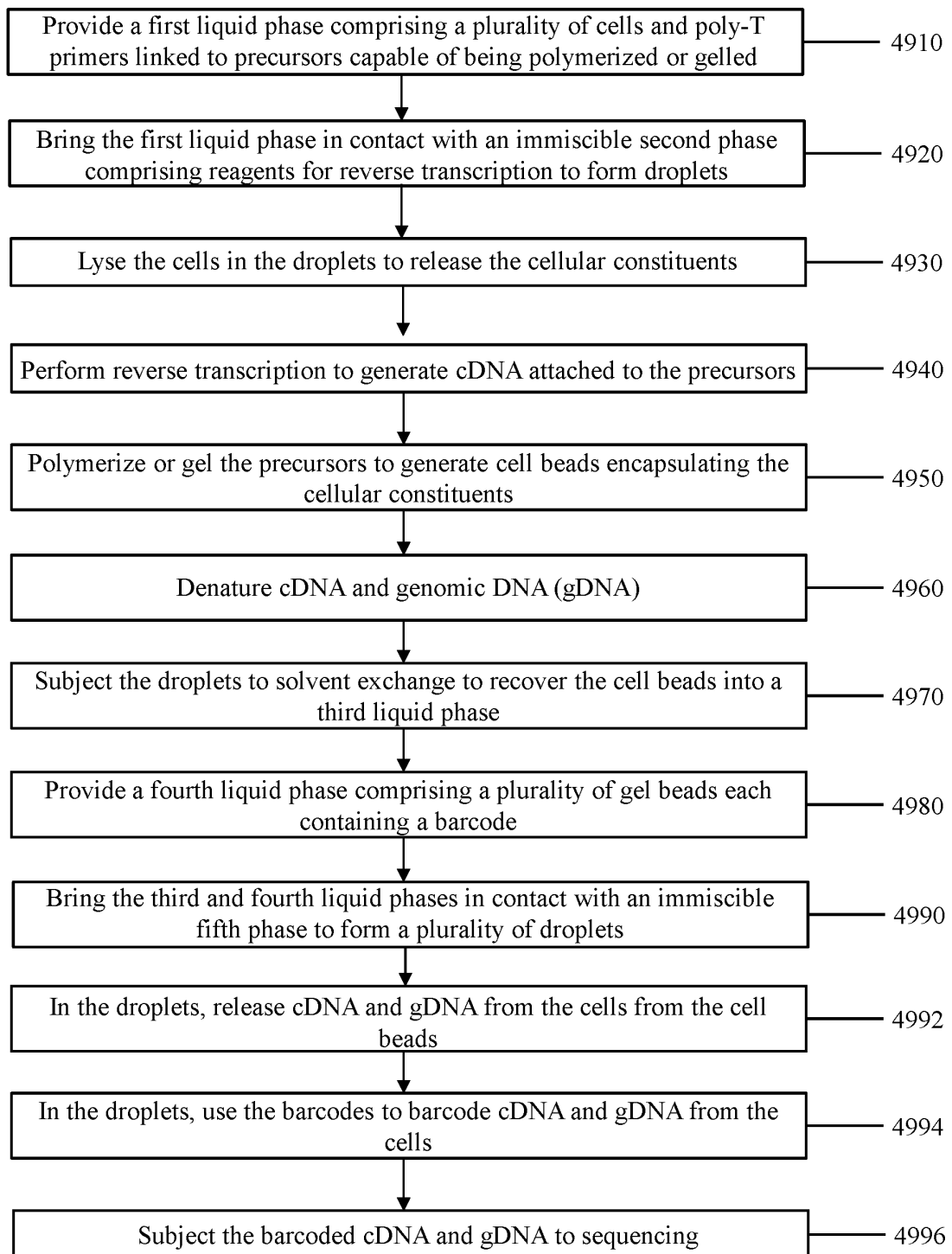


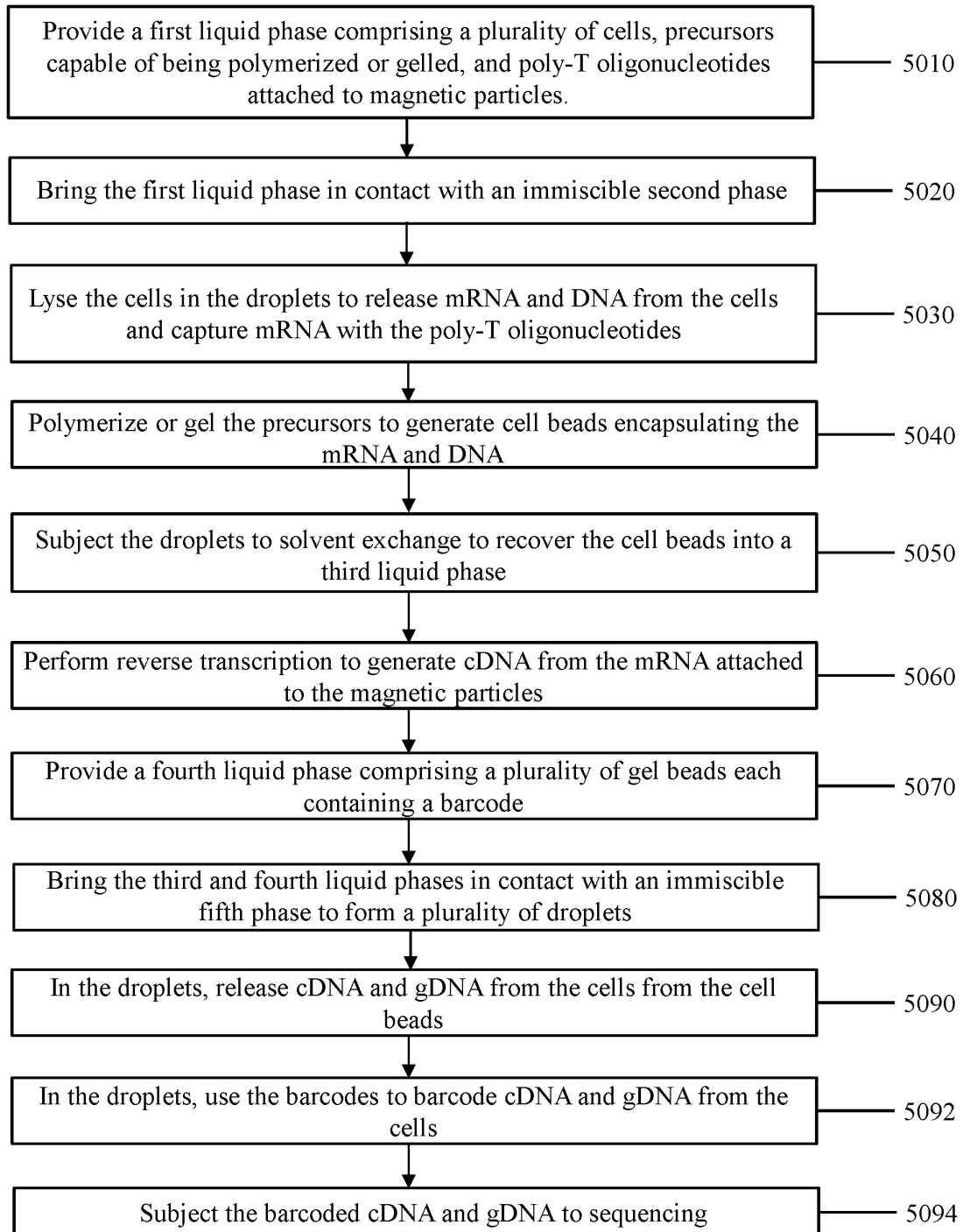
FIG. 47

4800

**FIG. 48**

4900

**FIG. 49**

5000**FIG. 50**

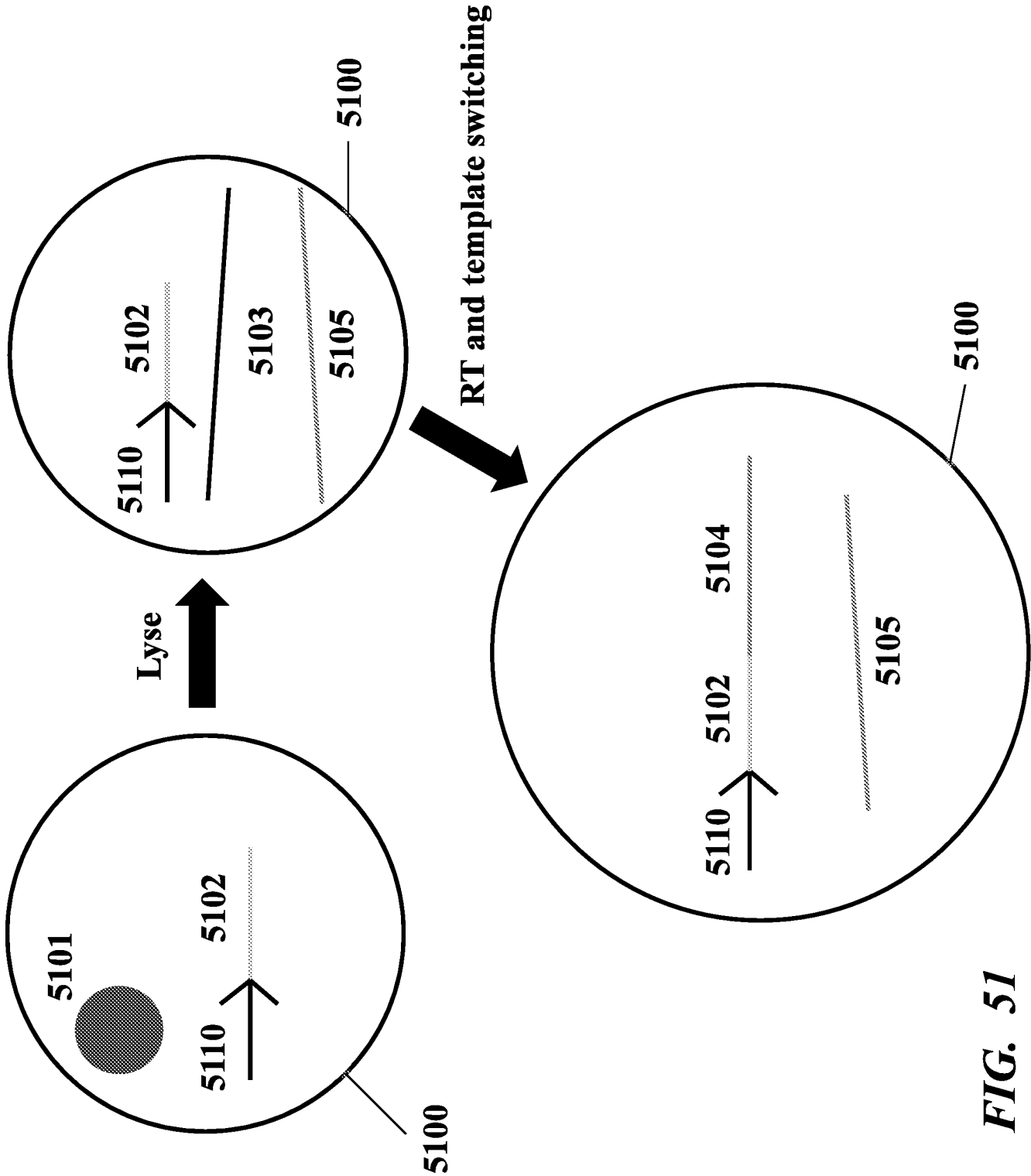
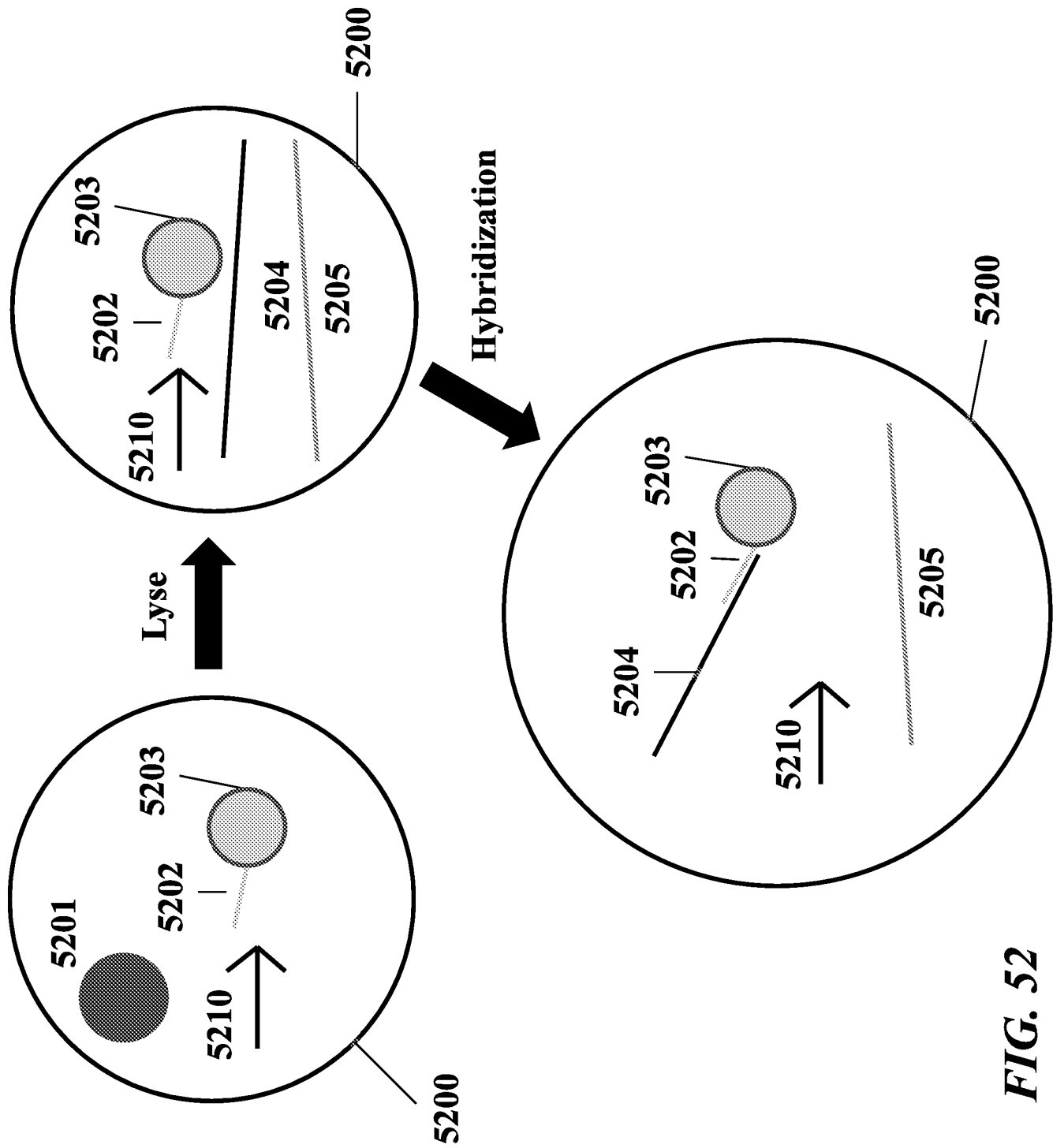


FIG. 51

**FIG. 52**

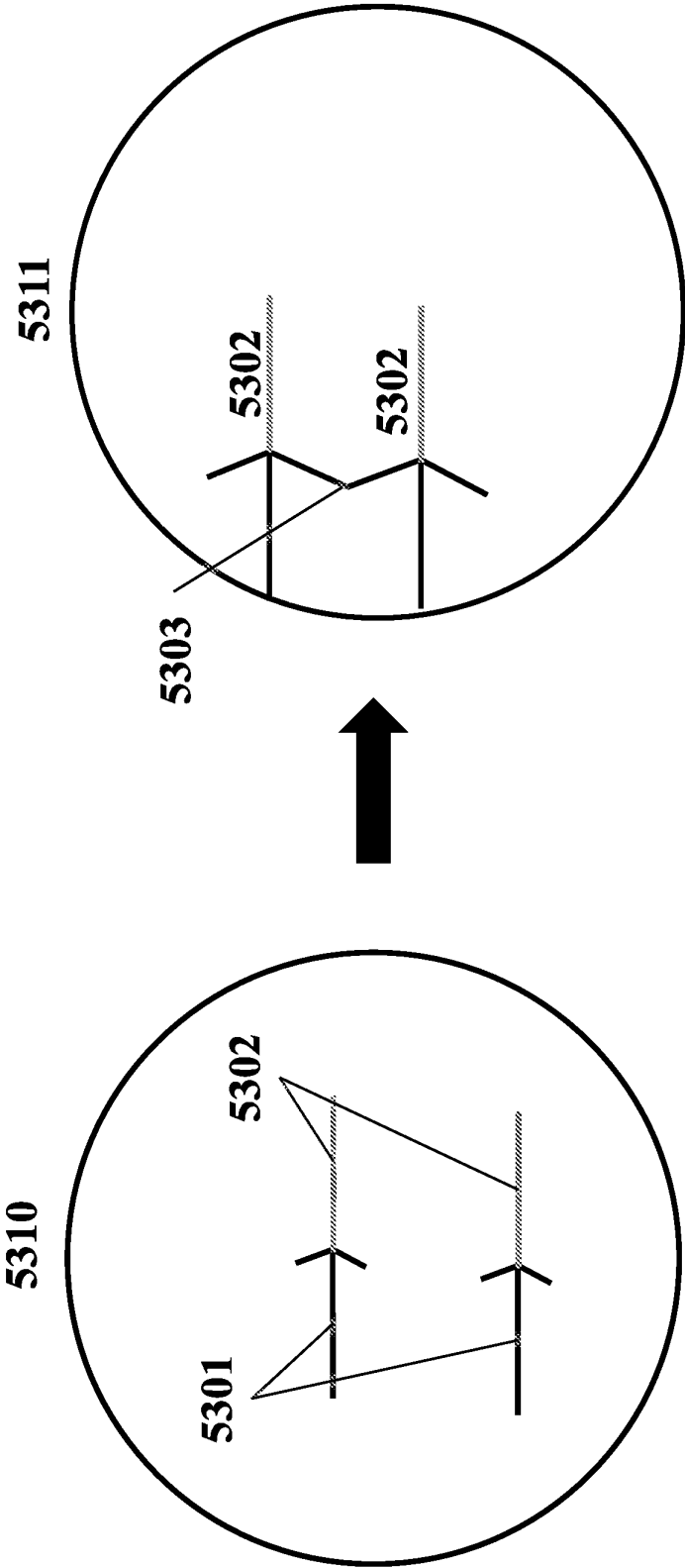


FIG. 53

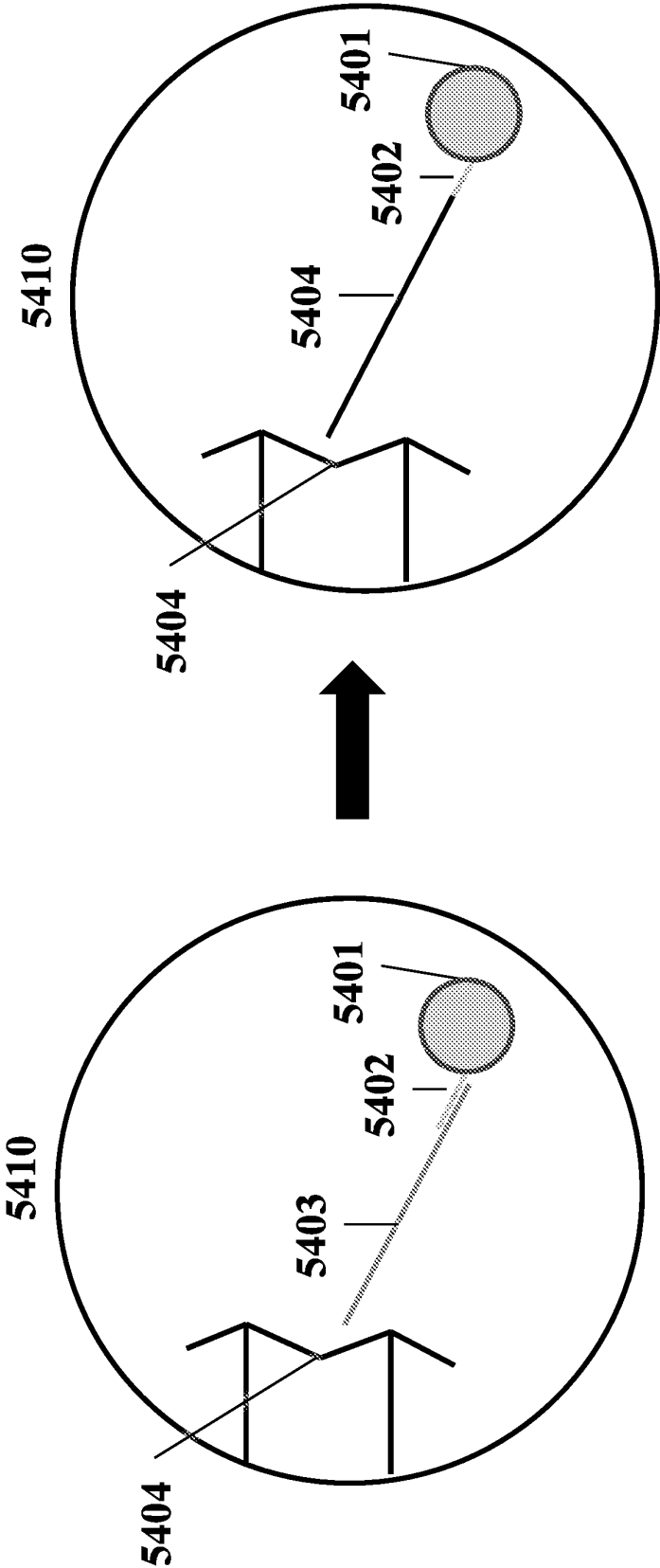


FIG. 54

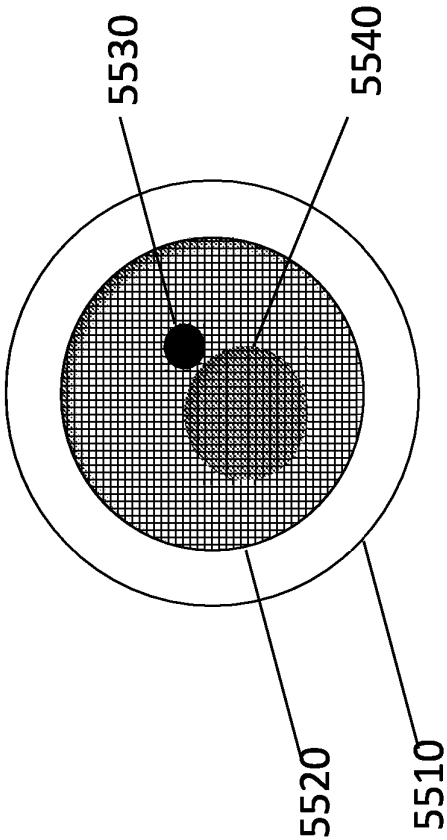


FIG. 55A

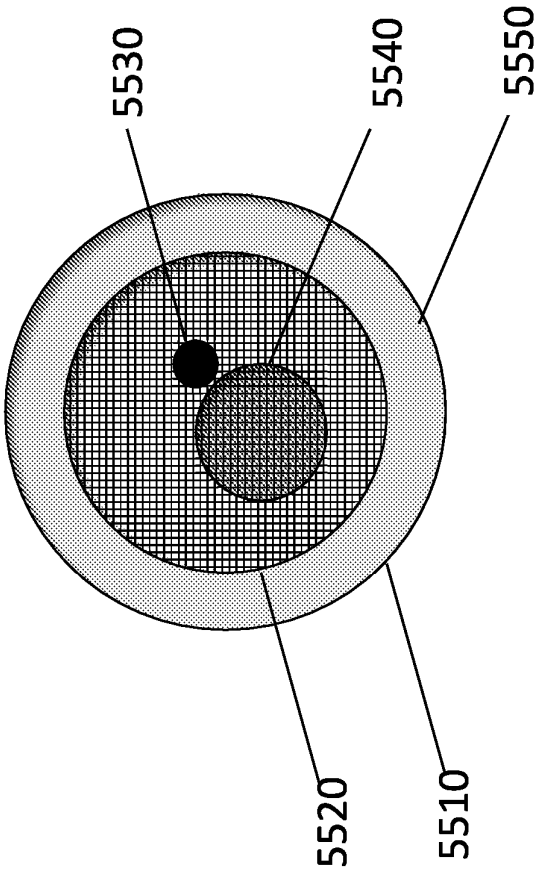


FIG. 55B

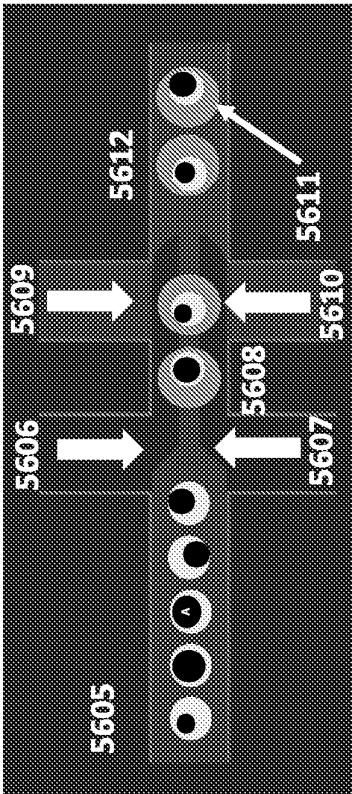


FIG. 56A

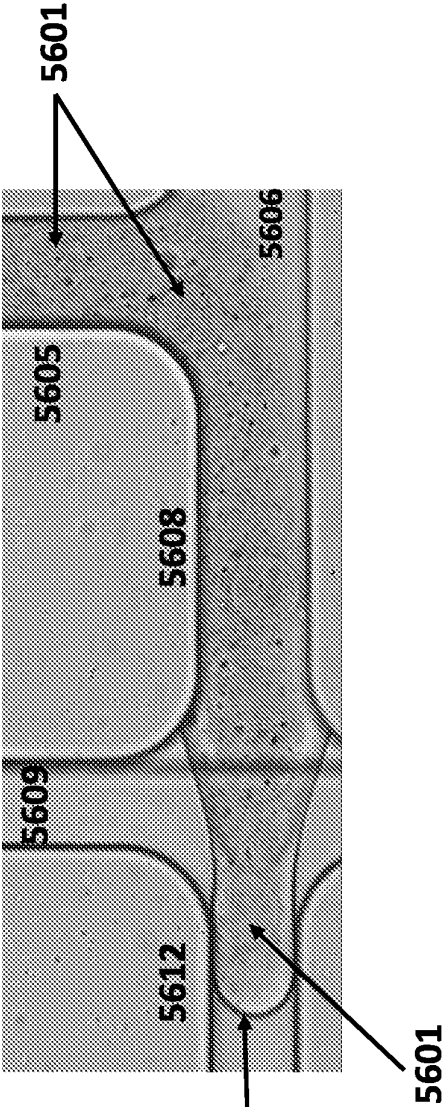
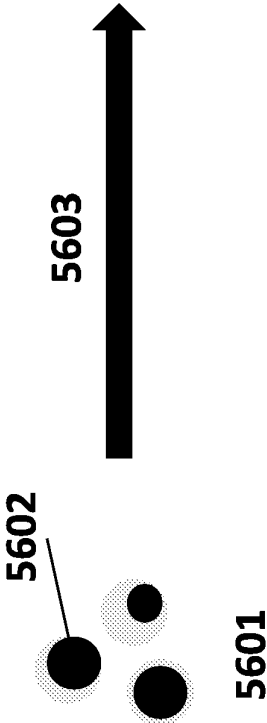
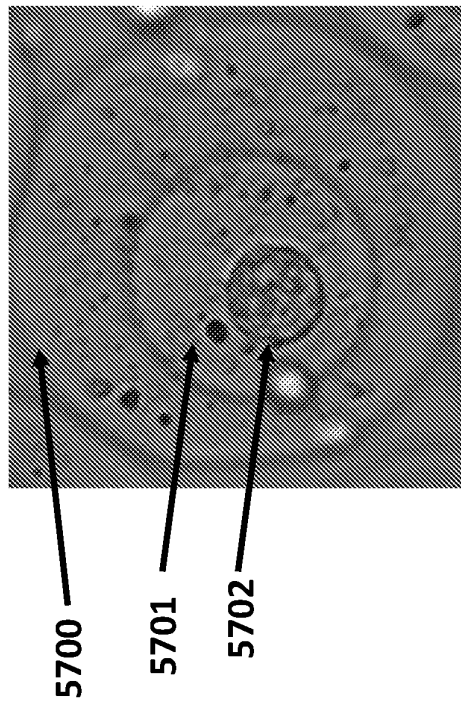
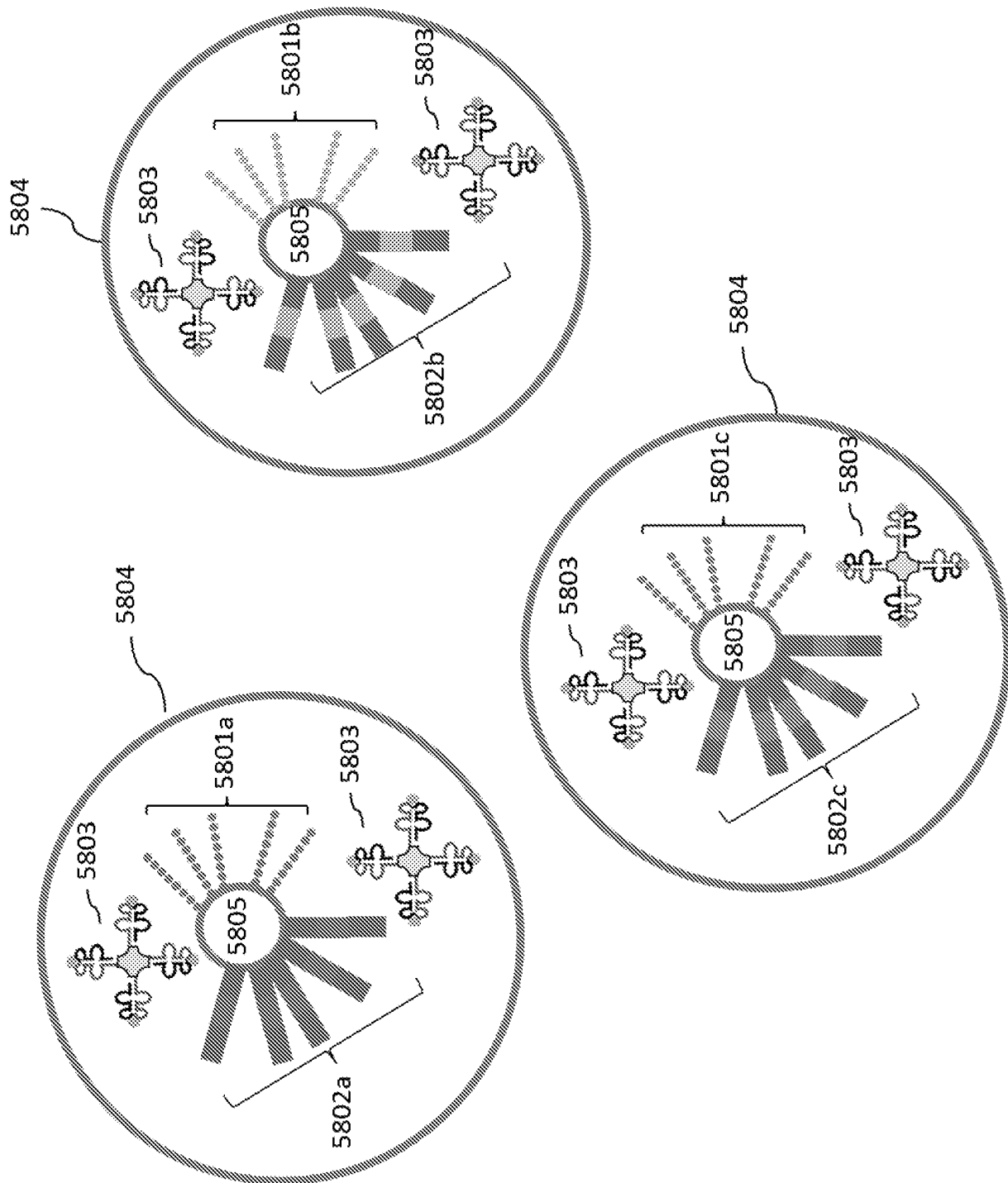
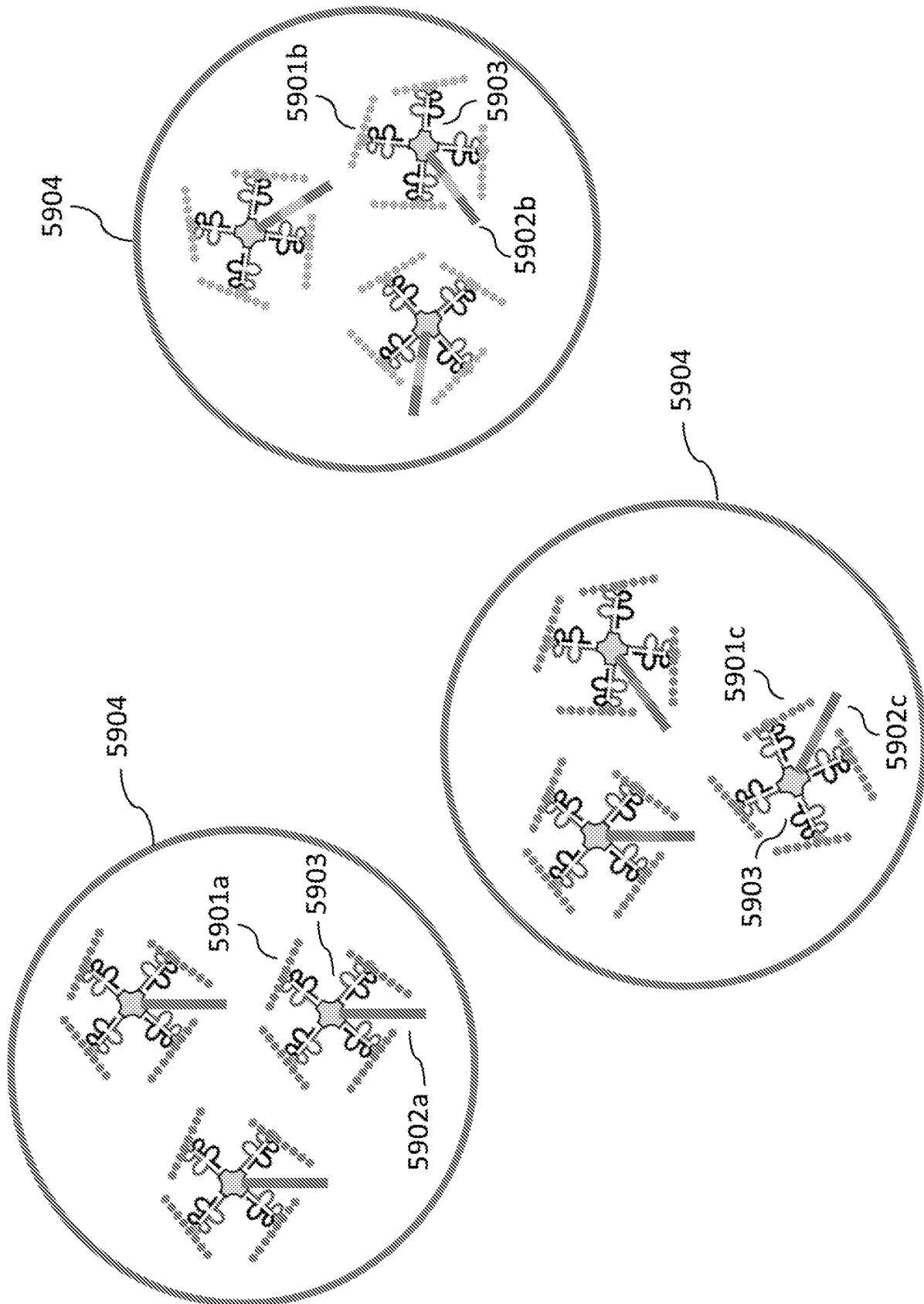
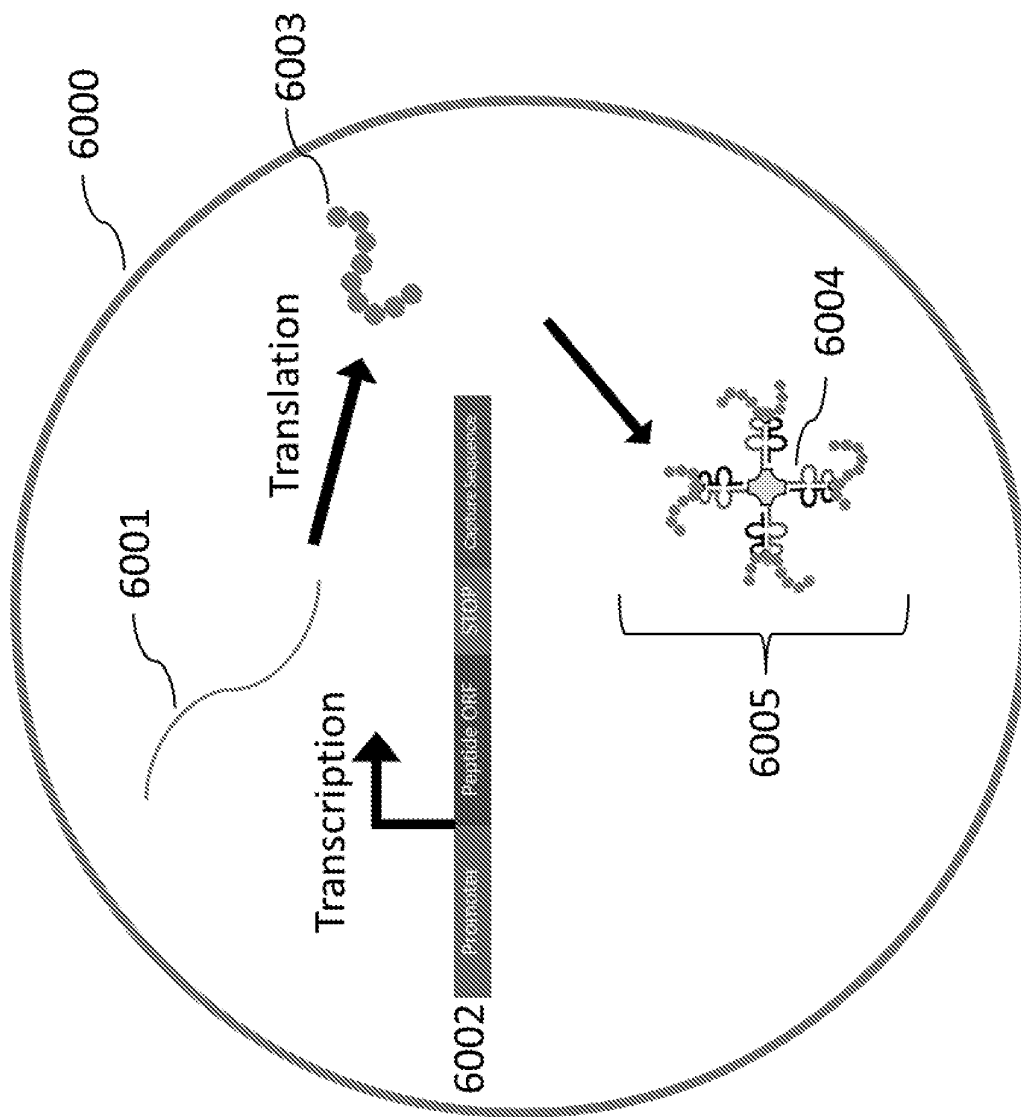


FIG. 56B

**FIG. 57**

**FIG. 58**

**FIG. 59**

**FIG. 60**

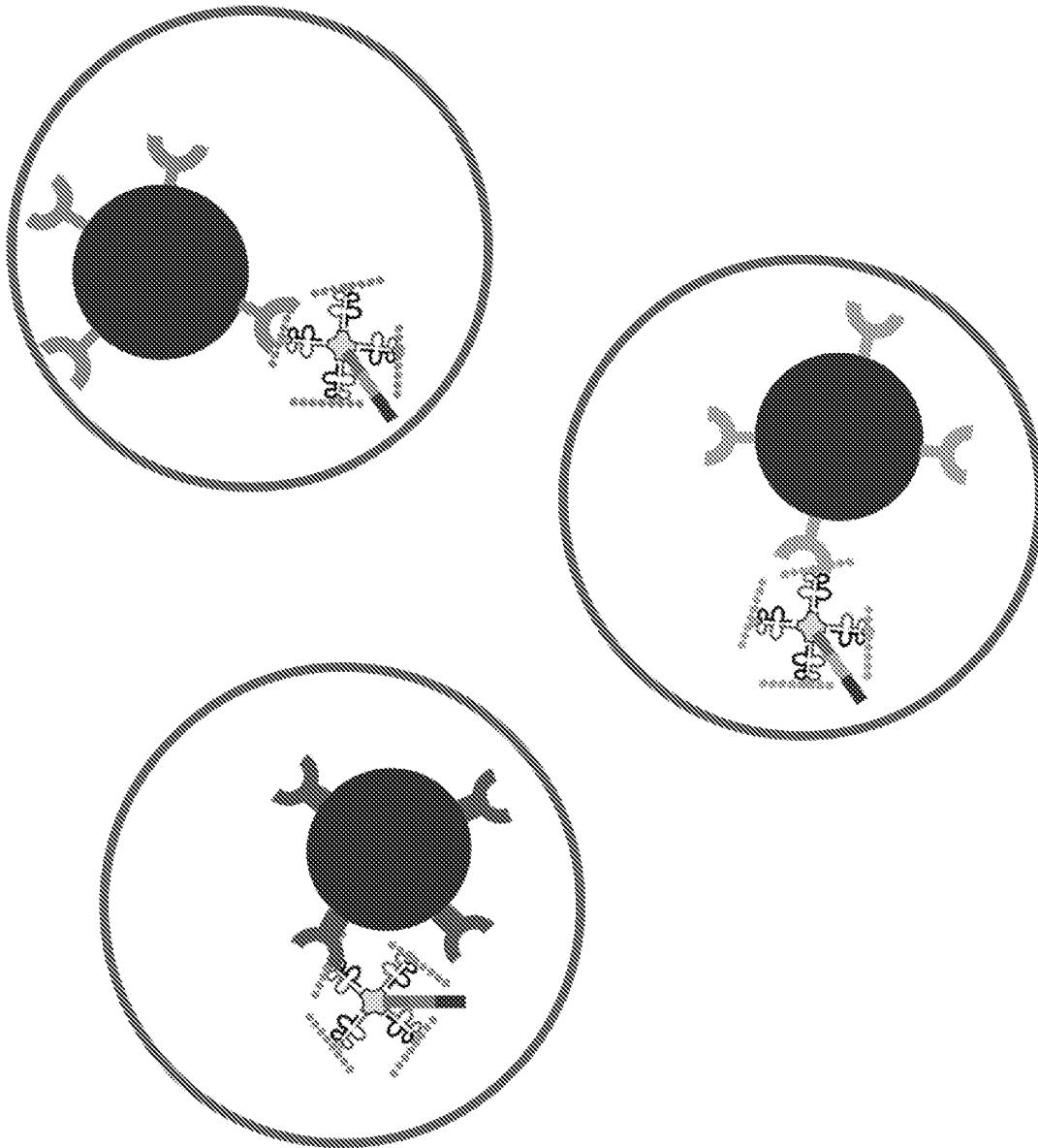
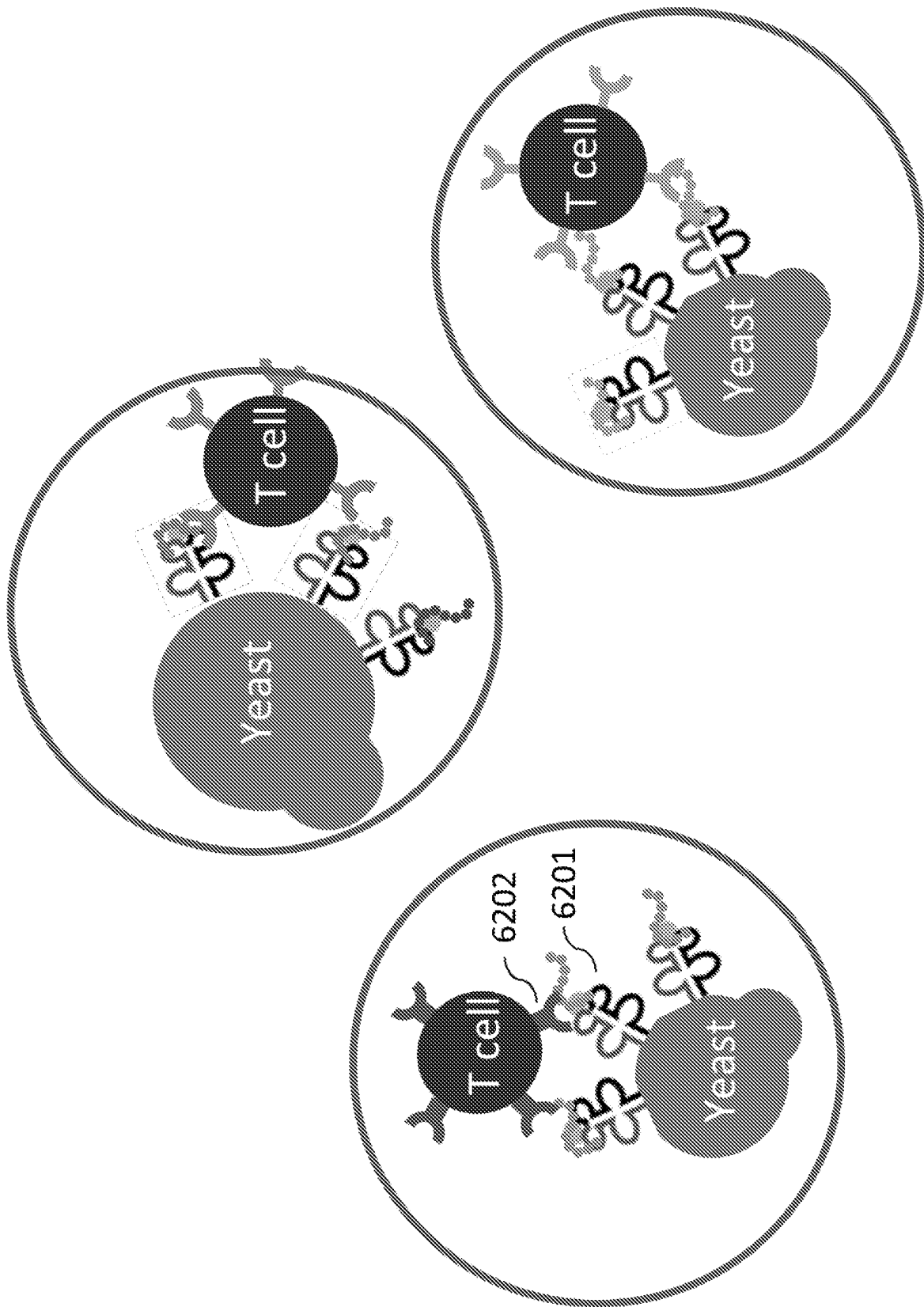
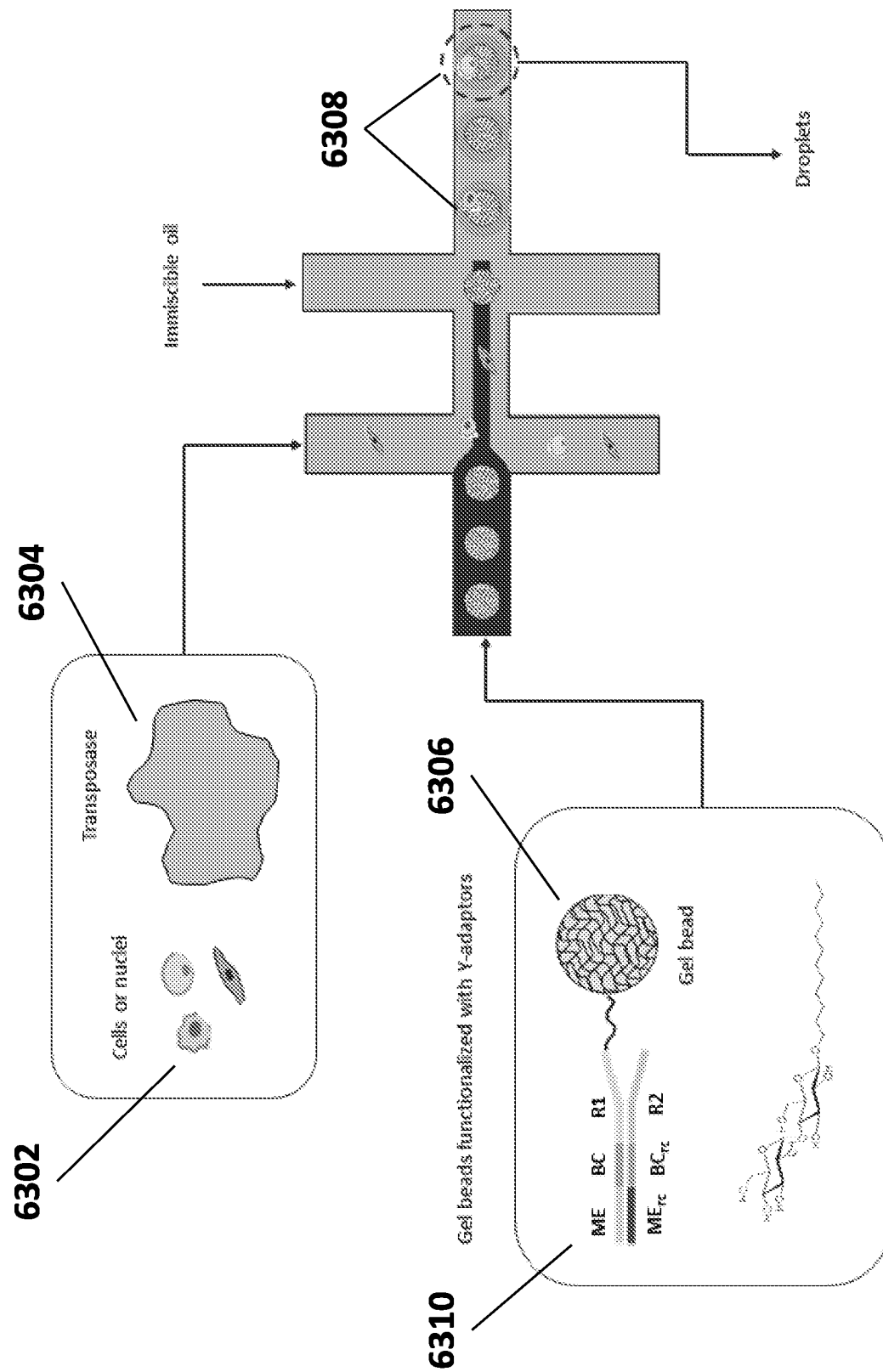


FIG. 61

**FIG. 62**

**FIG. 63**

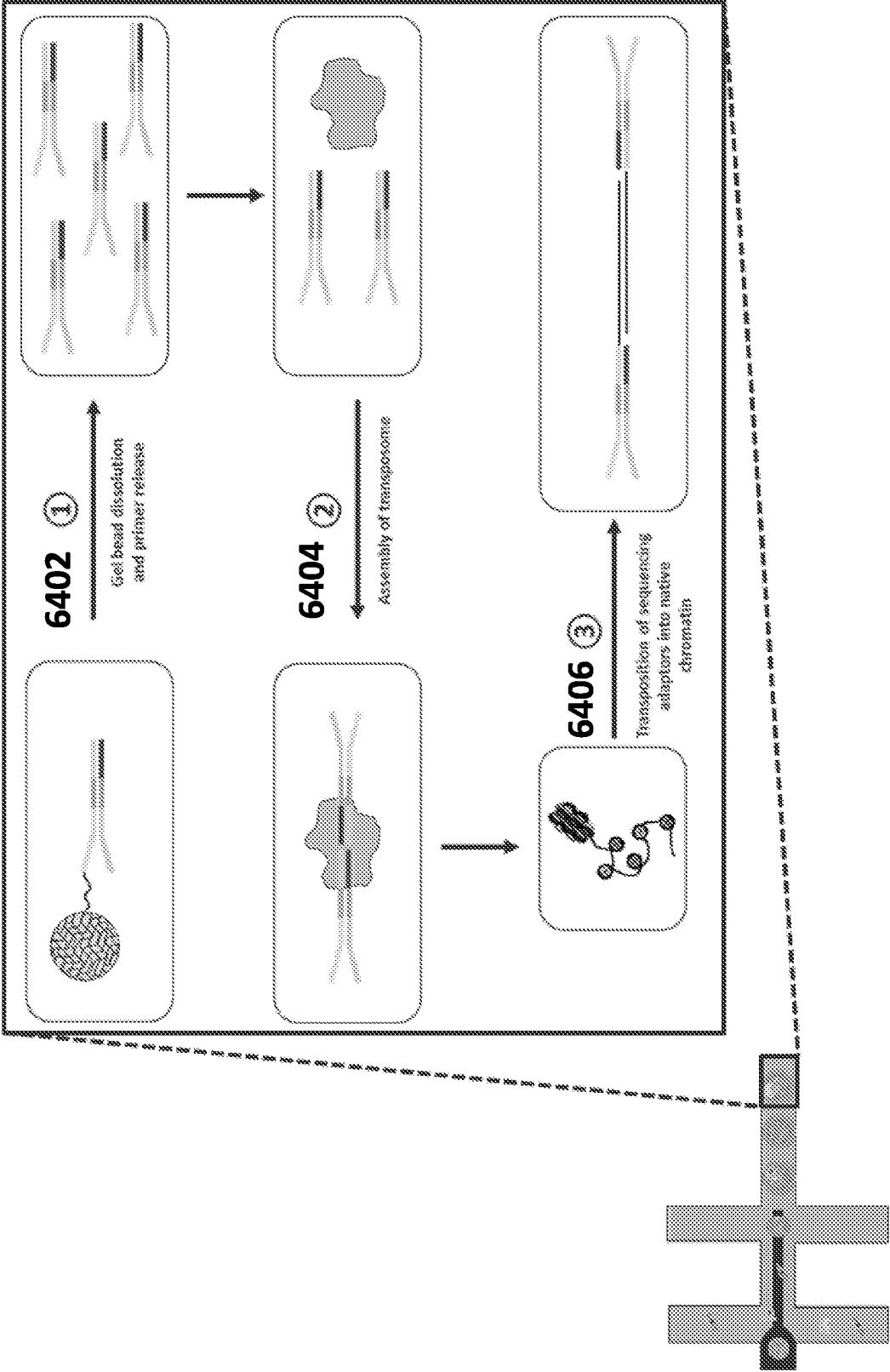


FIG. 64A

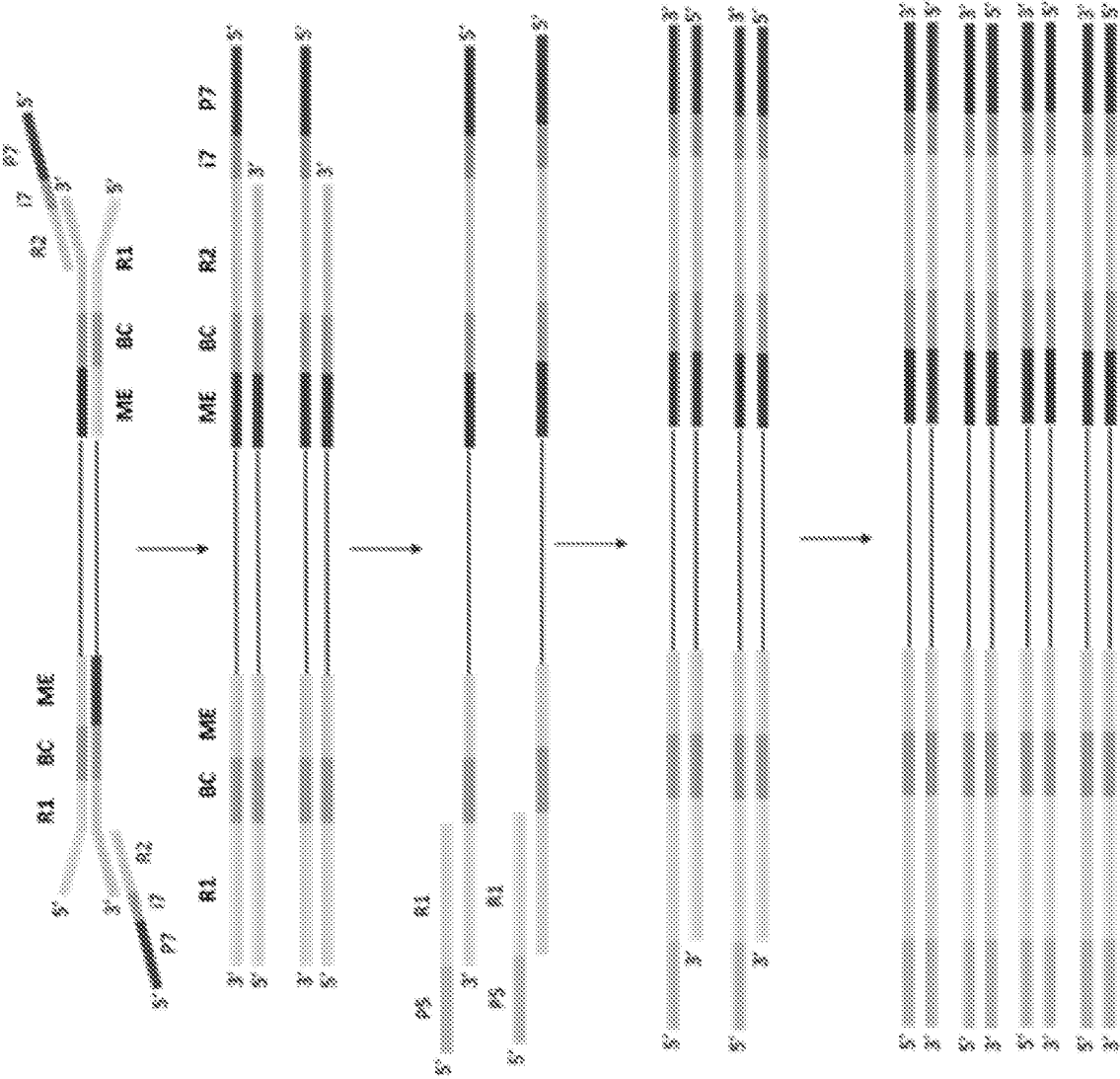
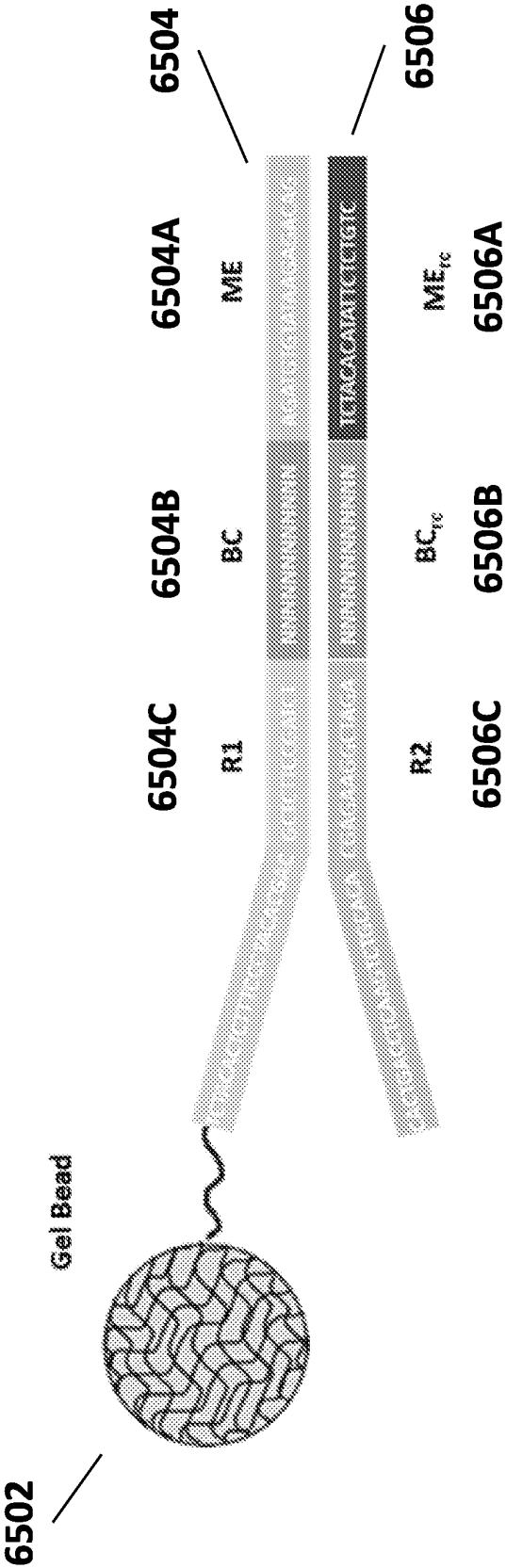


FIG. 64B



Sequence (5' → 3')		
5'	/5'Acryd//jThnM08-DYTCTACACTCTTCCCTACAGACGCTCTCCGATCTNNNNNNNNNNNAGATGTGTATAGAGACAG	3'
3'	CACTGACCTCAAGTCTGCACACGAGAGGCTAGANNNNNNNNNNNTCTACACATATCTCTGTC	5'

FIG. 65A

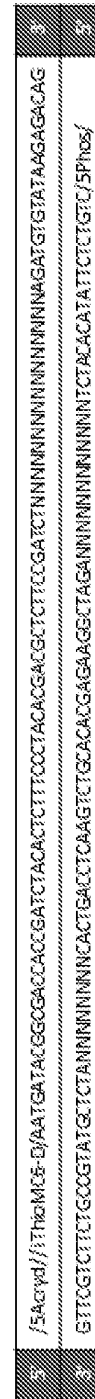


FIG. 65B

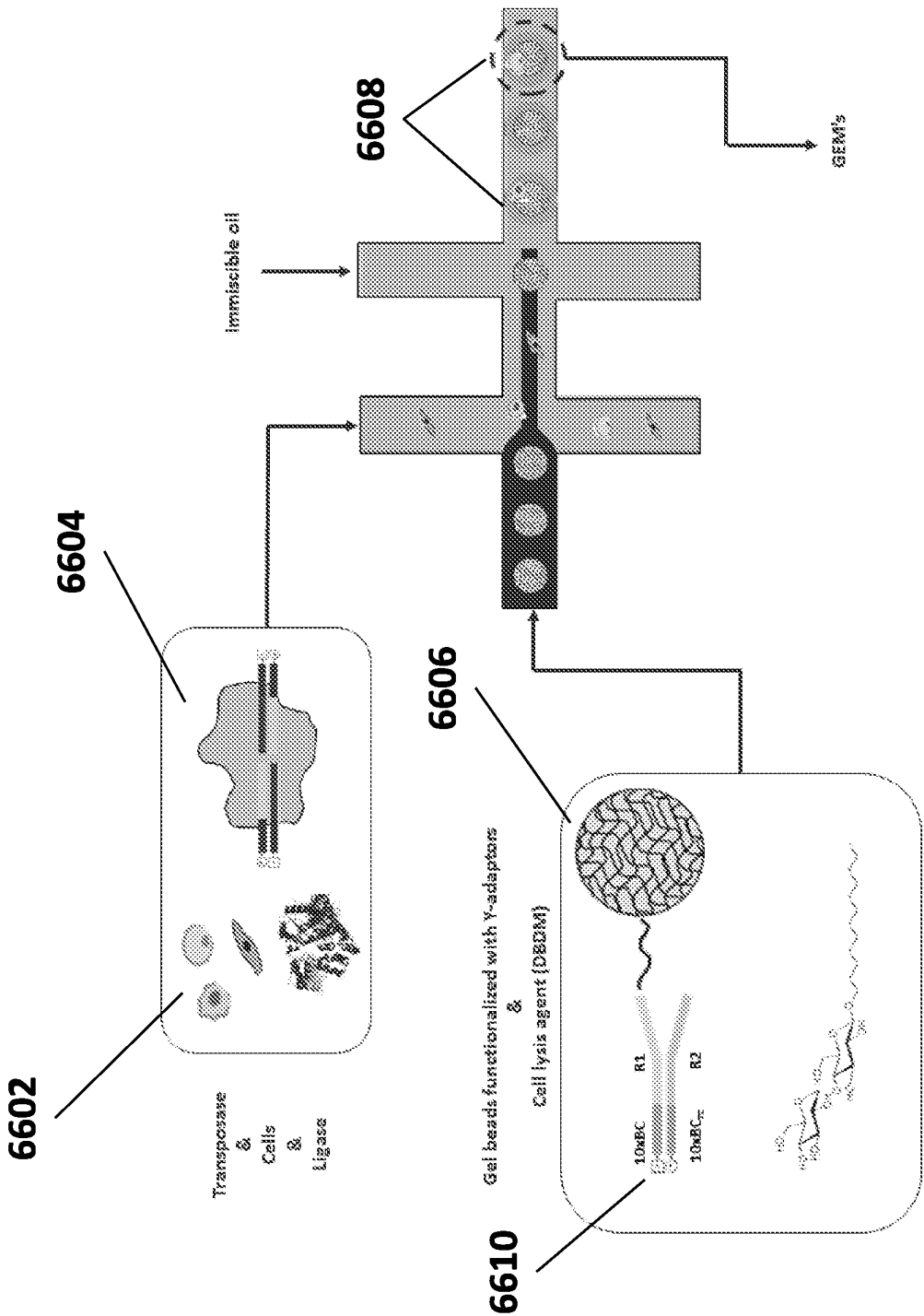


FIG. 66

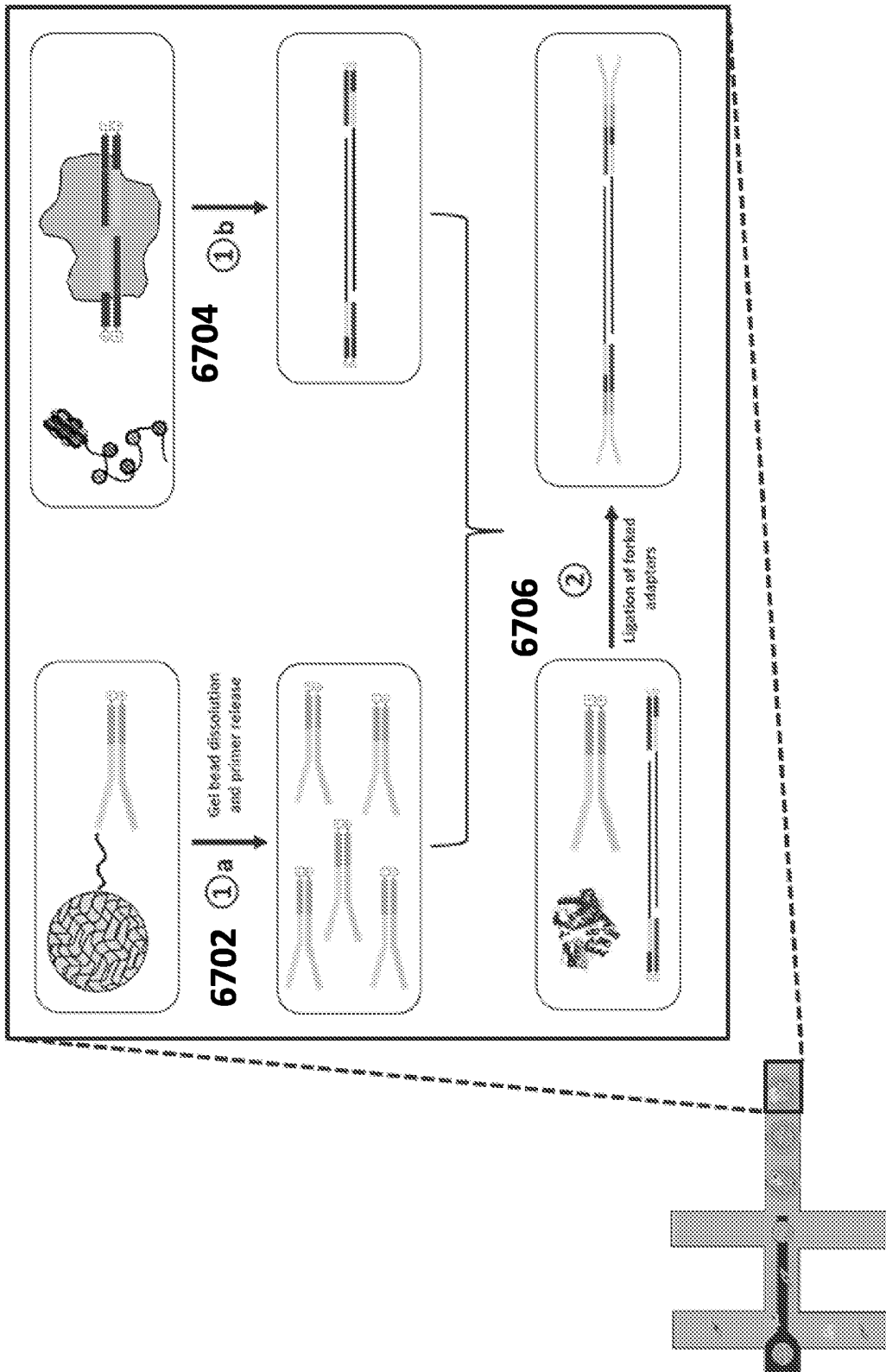


FIG. 67A

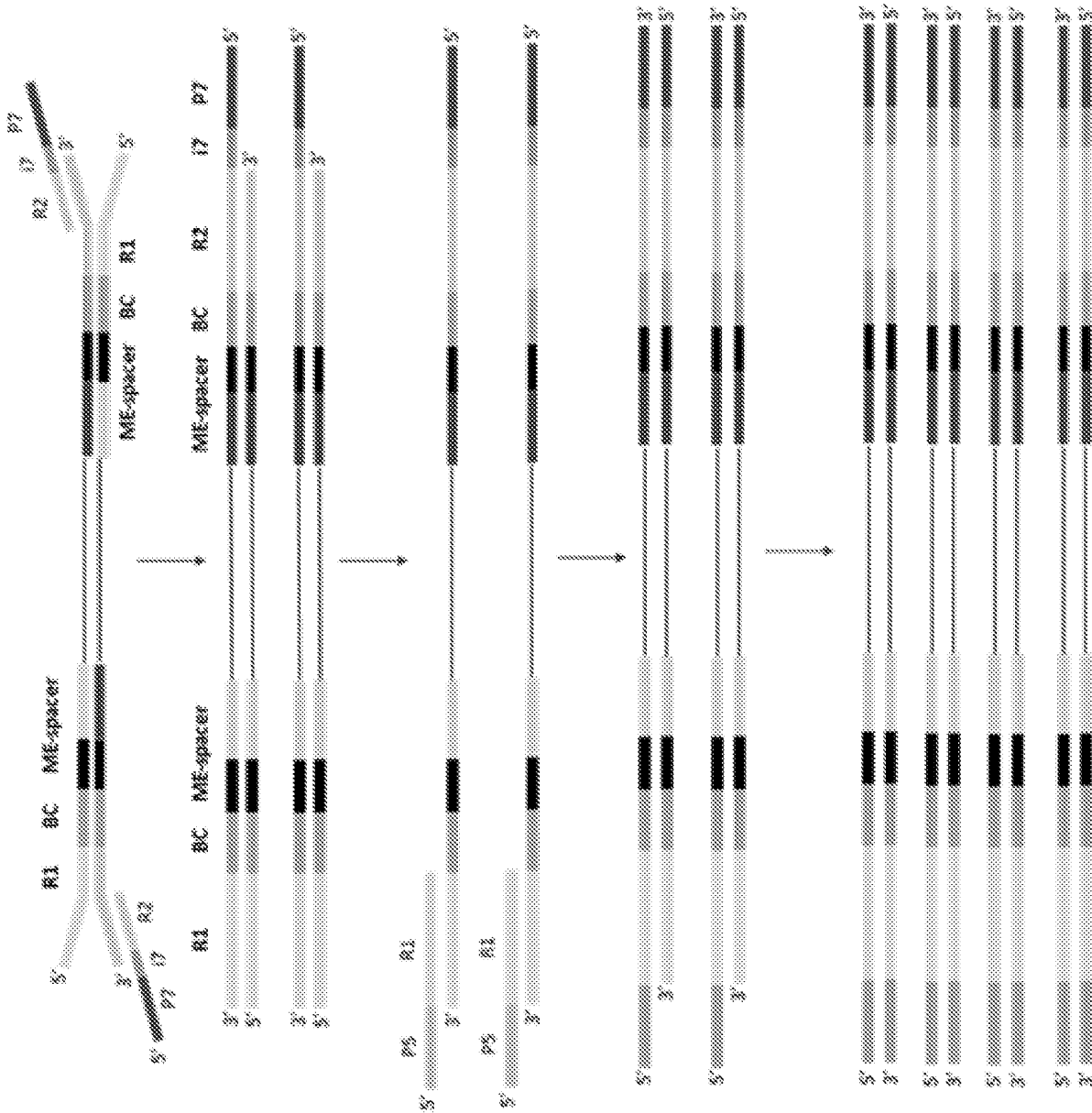


FIG. 67B

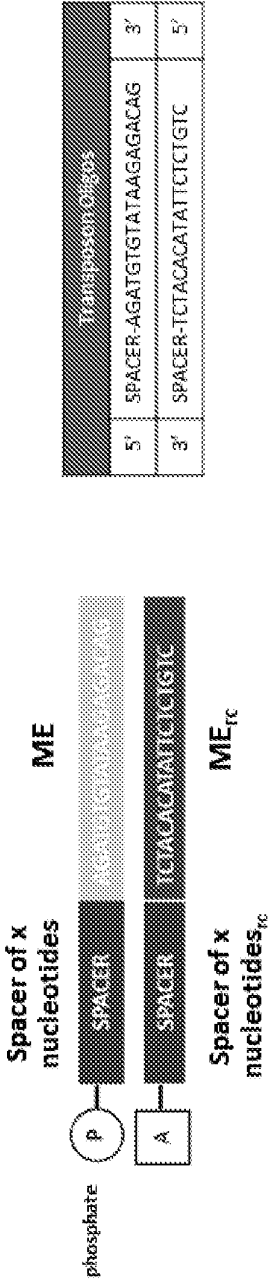
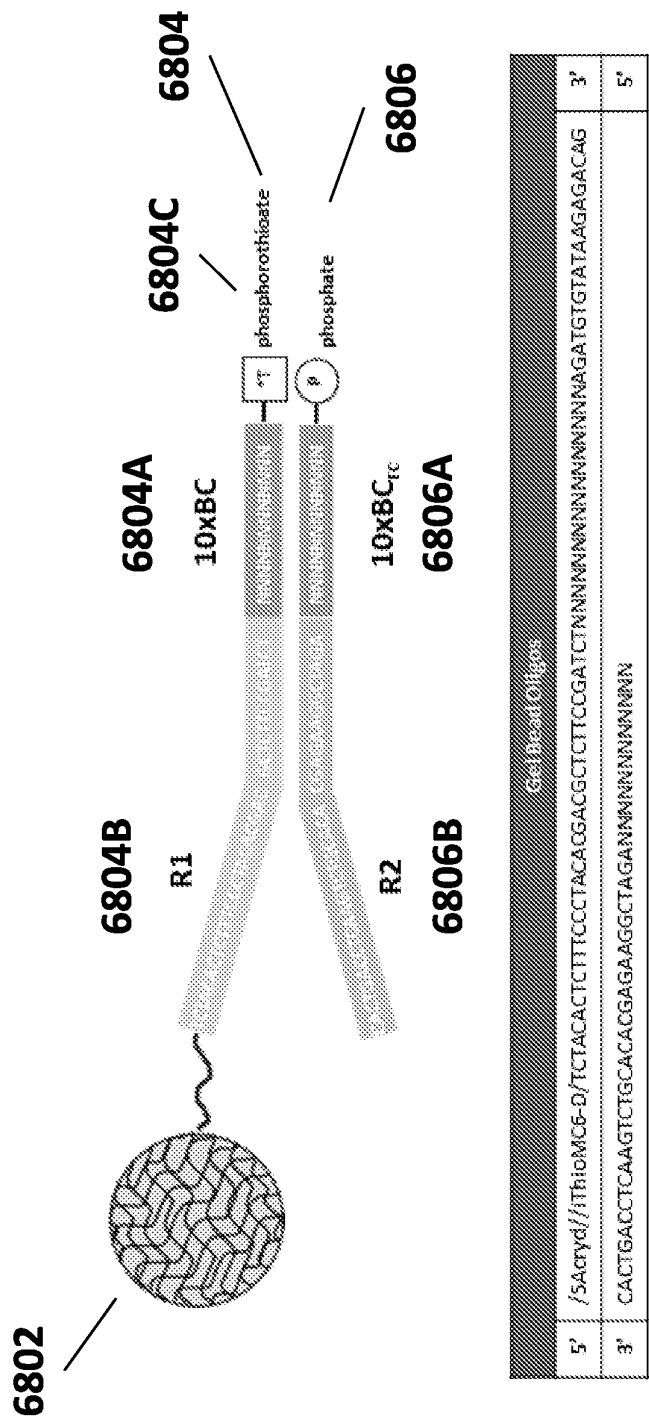


FIG. 68A

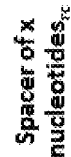
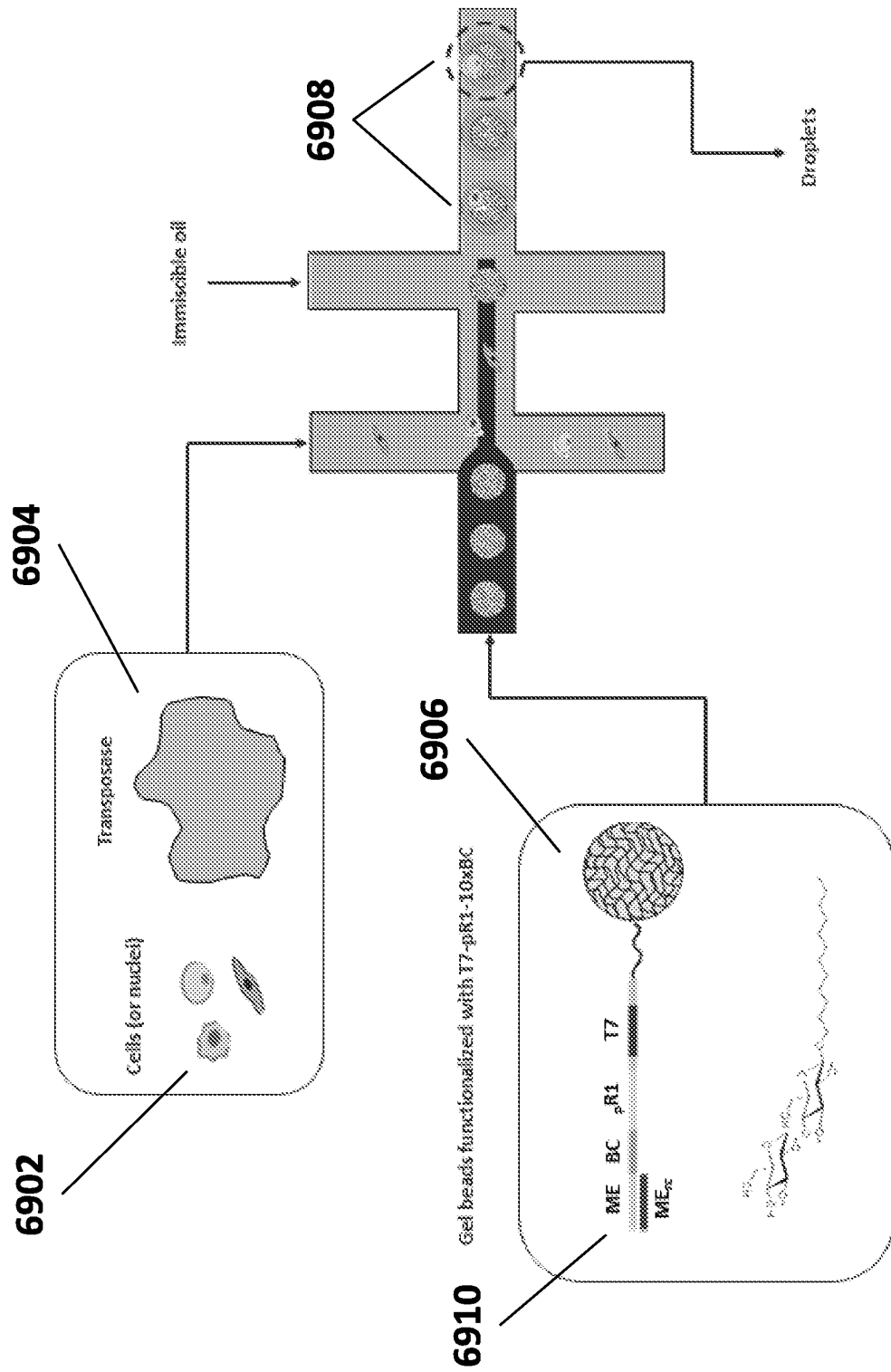
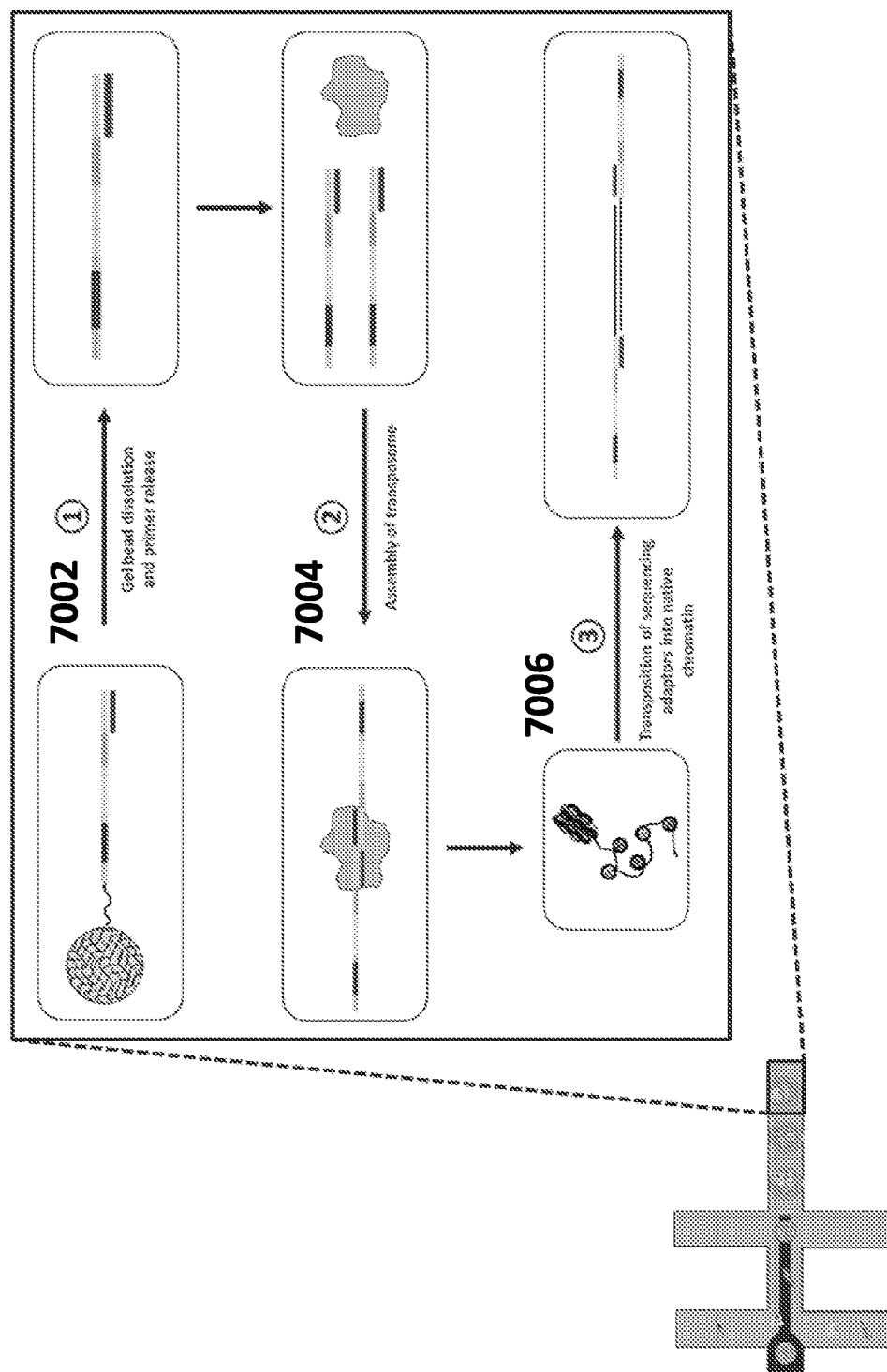
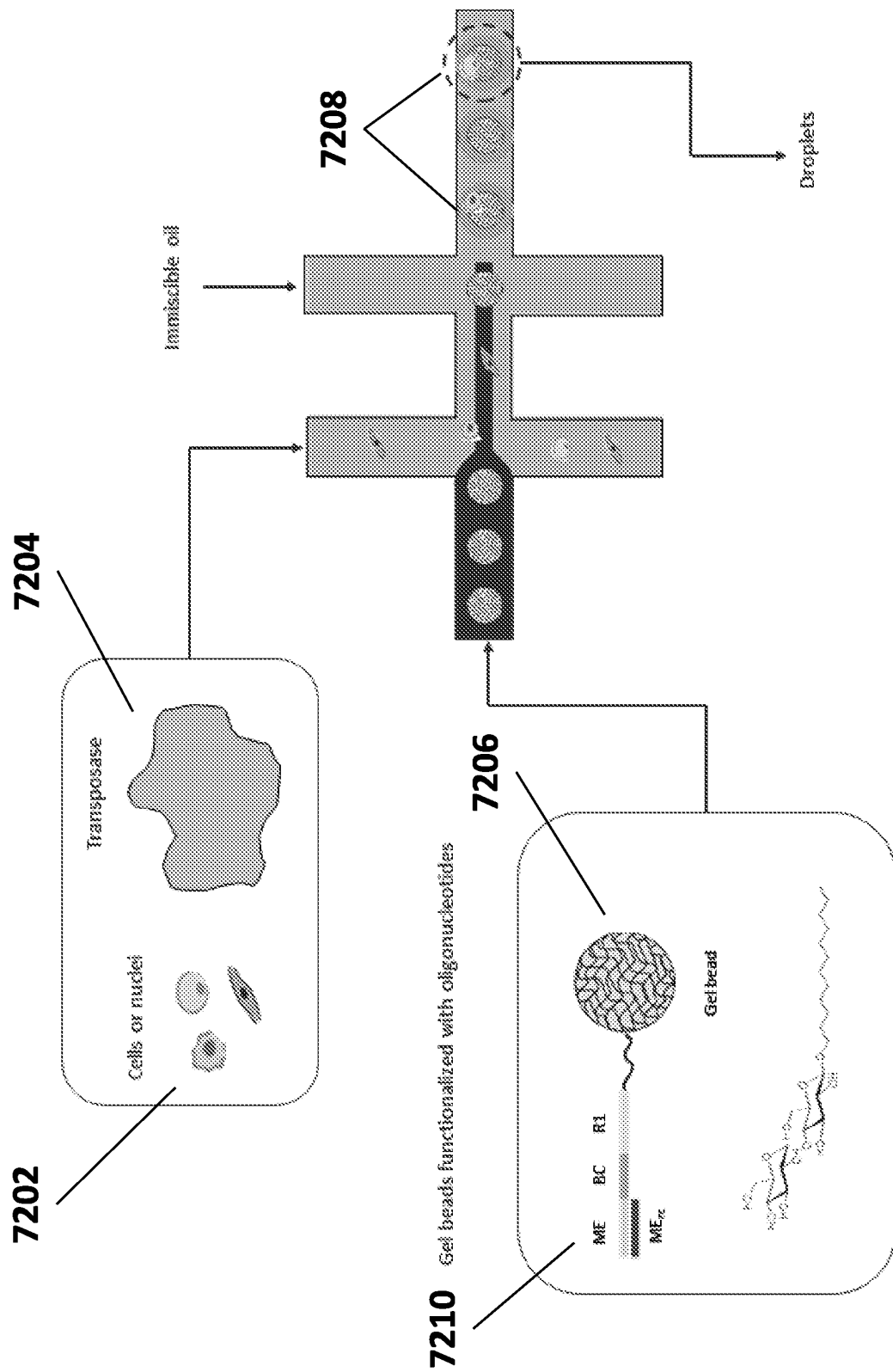
Spacer of x nucleotides

FIG. 68B

**FIG. 69**

**FIG. 70**



**FIG. 72**

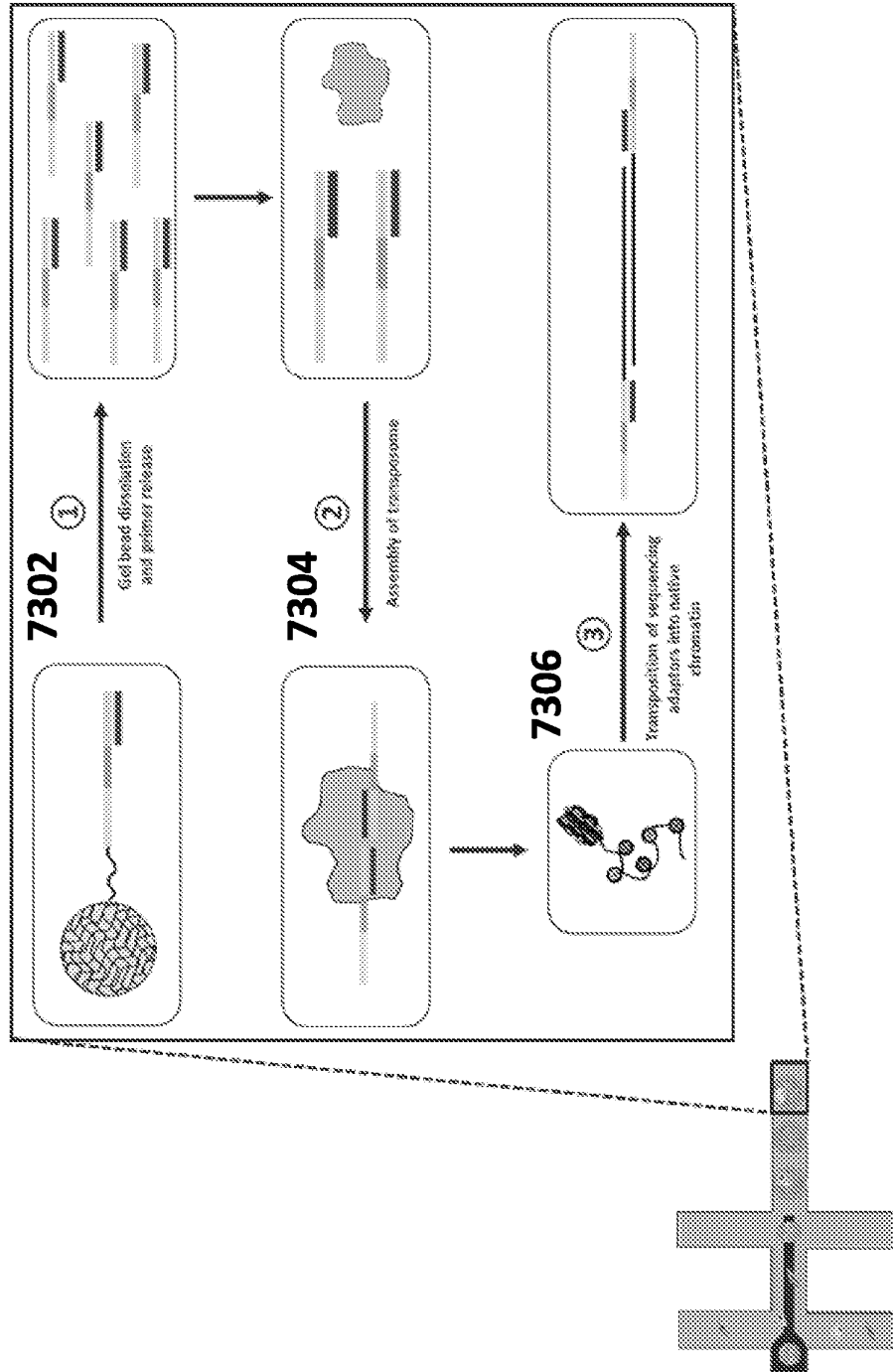
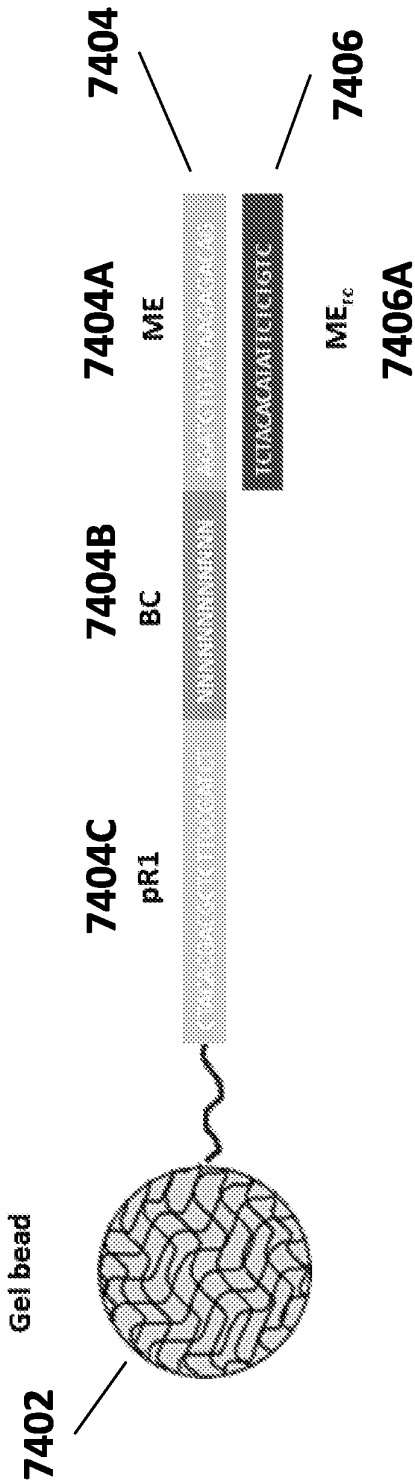


FIG. 73



Sequence (5' → 3')		
5'	/5Acrvd//ThaM06-D/CTACACGAGCGCTTCGGATCTNNNNNNNNNNNNNNNNAGATGTGTATAGAGACAG	3'
3'	/5Phos/CTGTCTCTTATACATCT	5'

FIG. 74

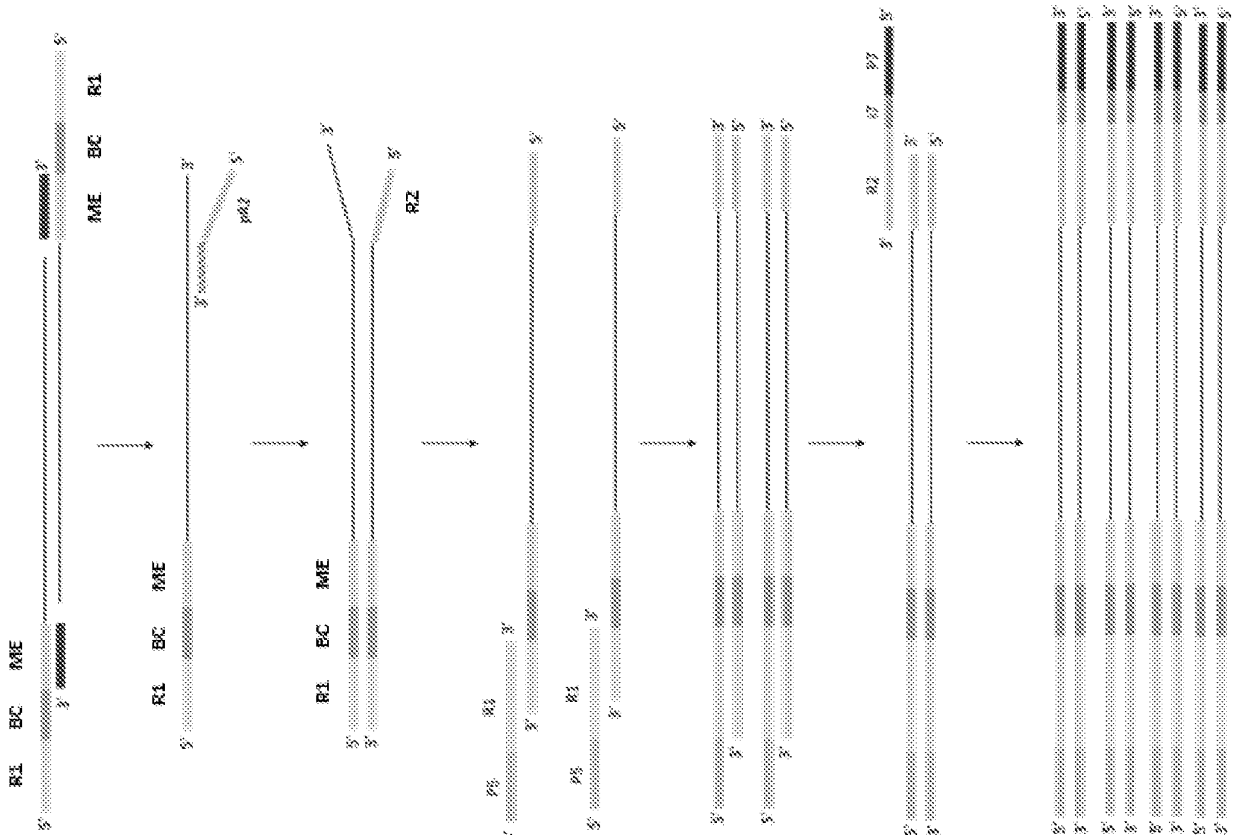


FIG. 75

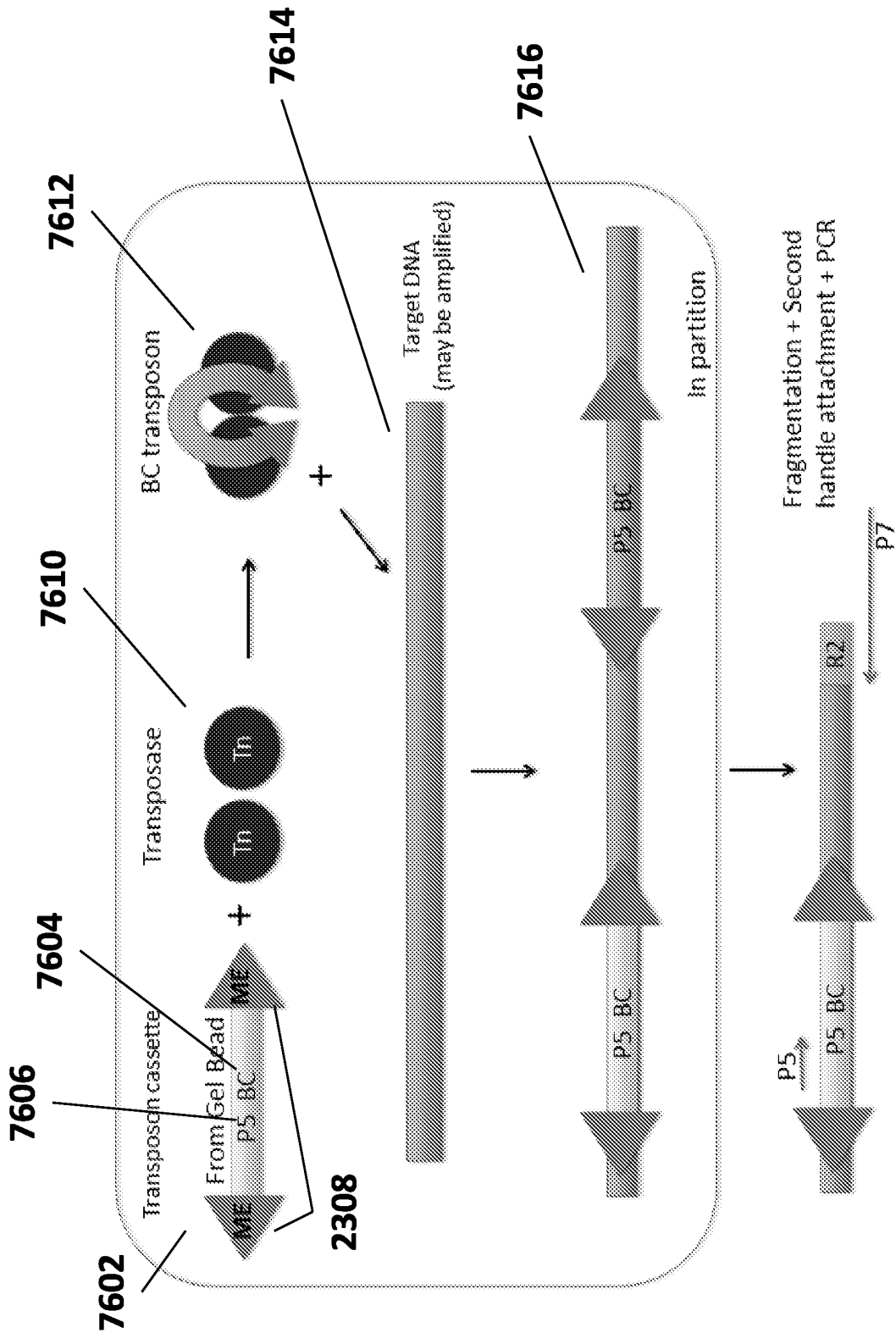


FIG. 76

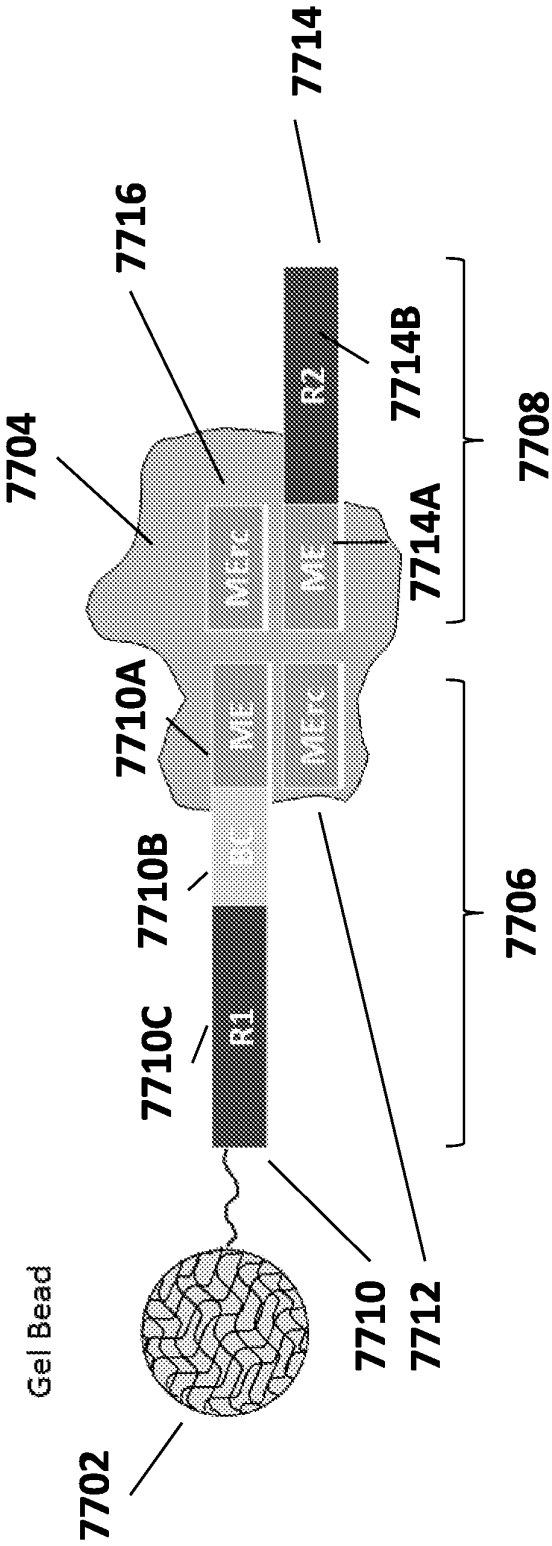


FIG. 77A

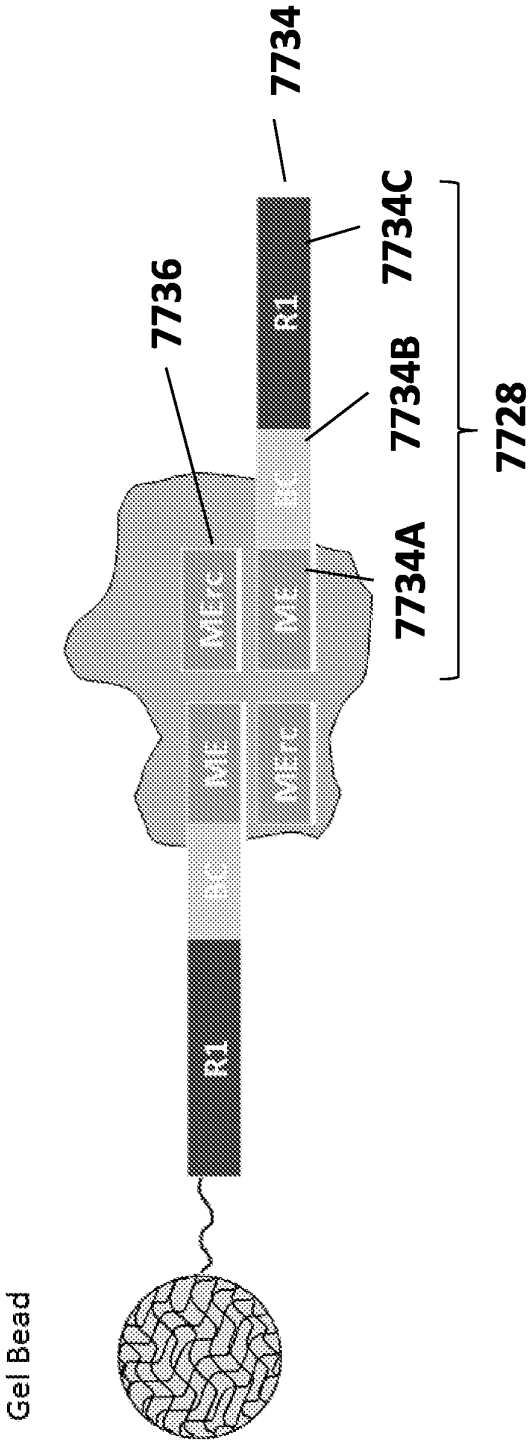


FIG. 77B

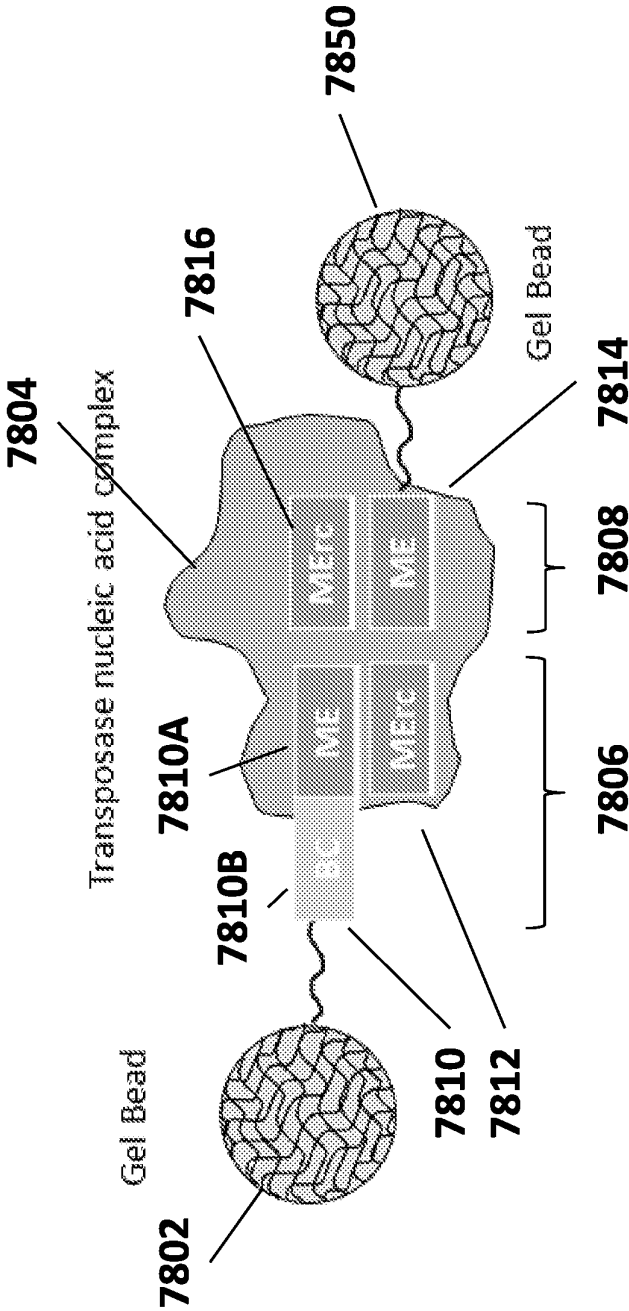


FIG. 78

Gel Bead

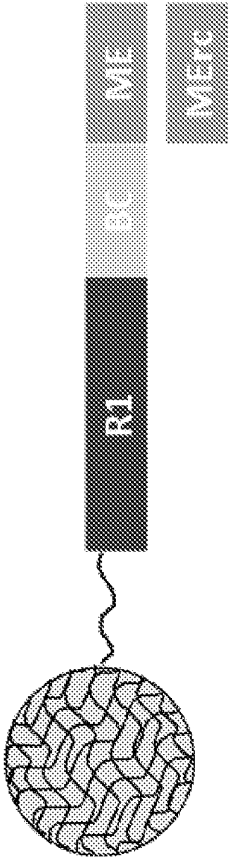


FIG. 79A

Gel Bead

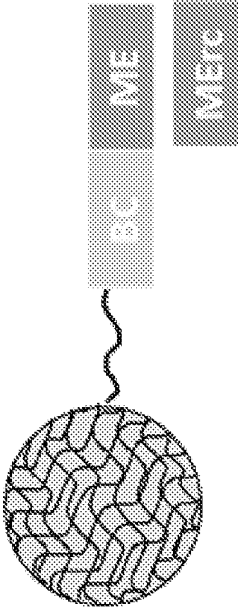


FIG. 79B

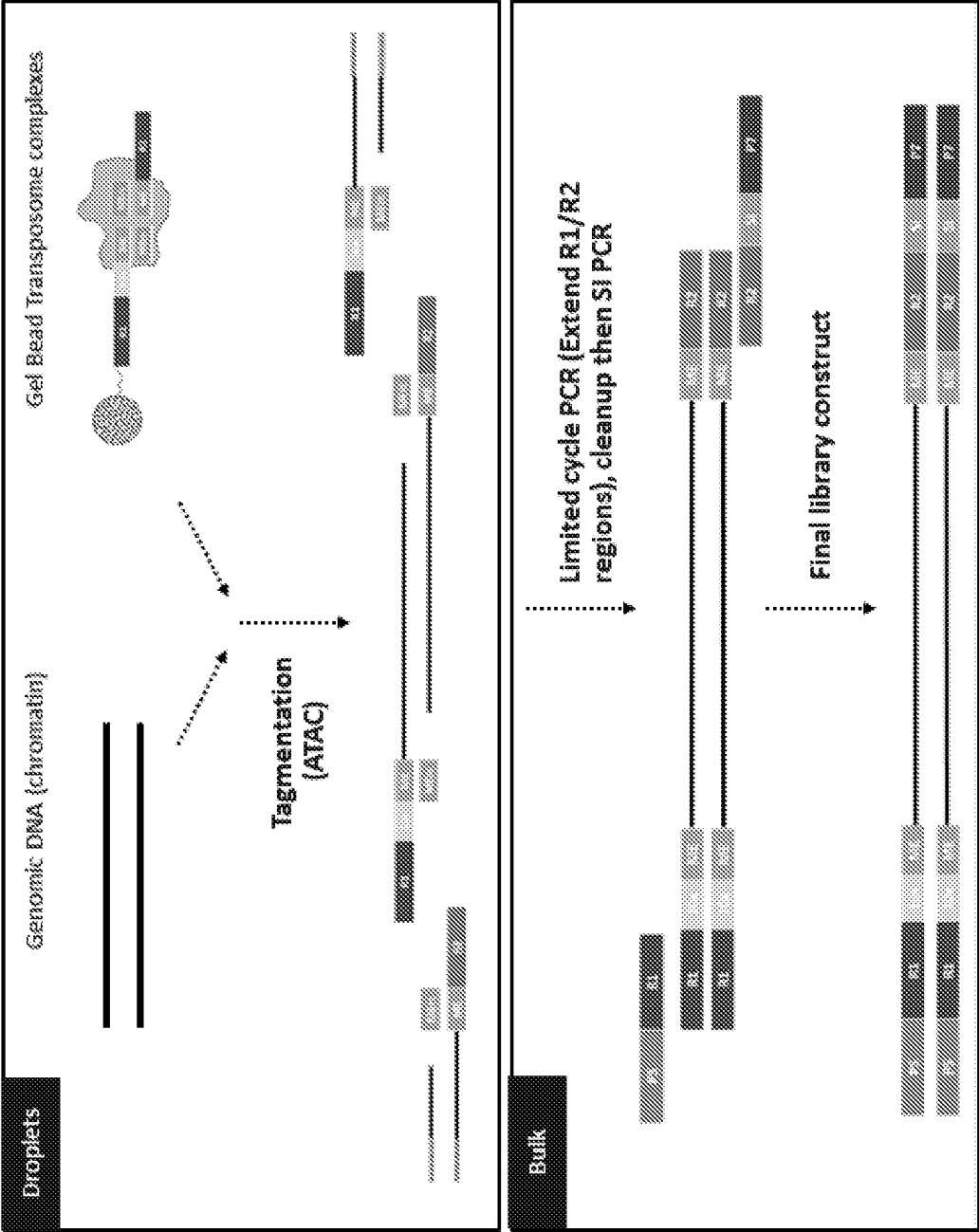


FIG. 80

Transposase Nucleic Acid Complex

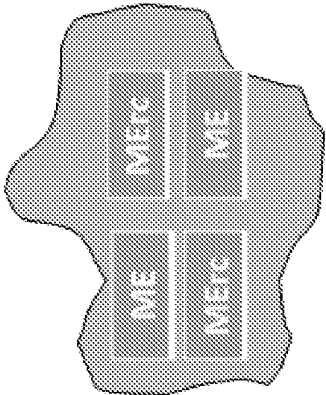


FIG. 81A

Gel Bead

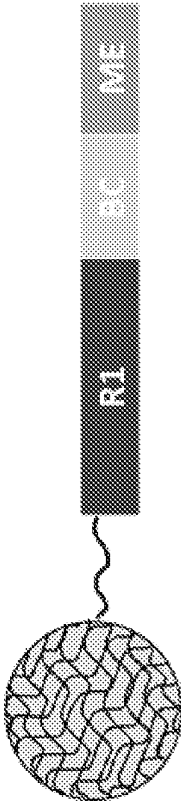


FIG. 81B

Transposase-Nucleic Acid Complex

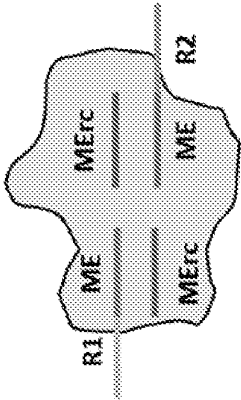


FIG. 82A

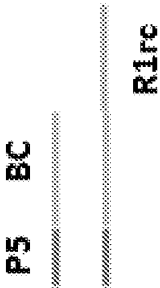


FIG. 82B

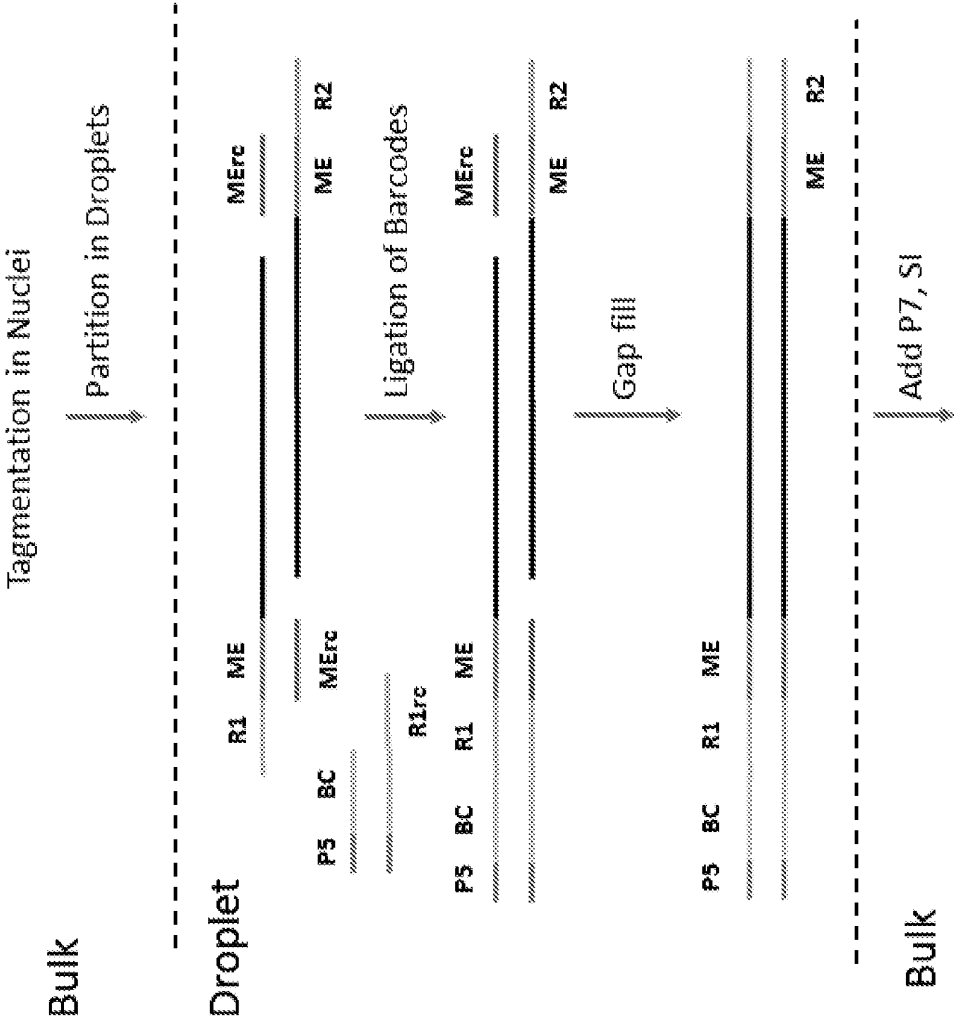


FIG. 82C

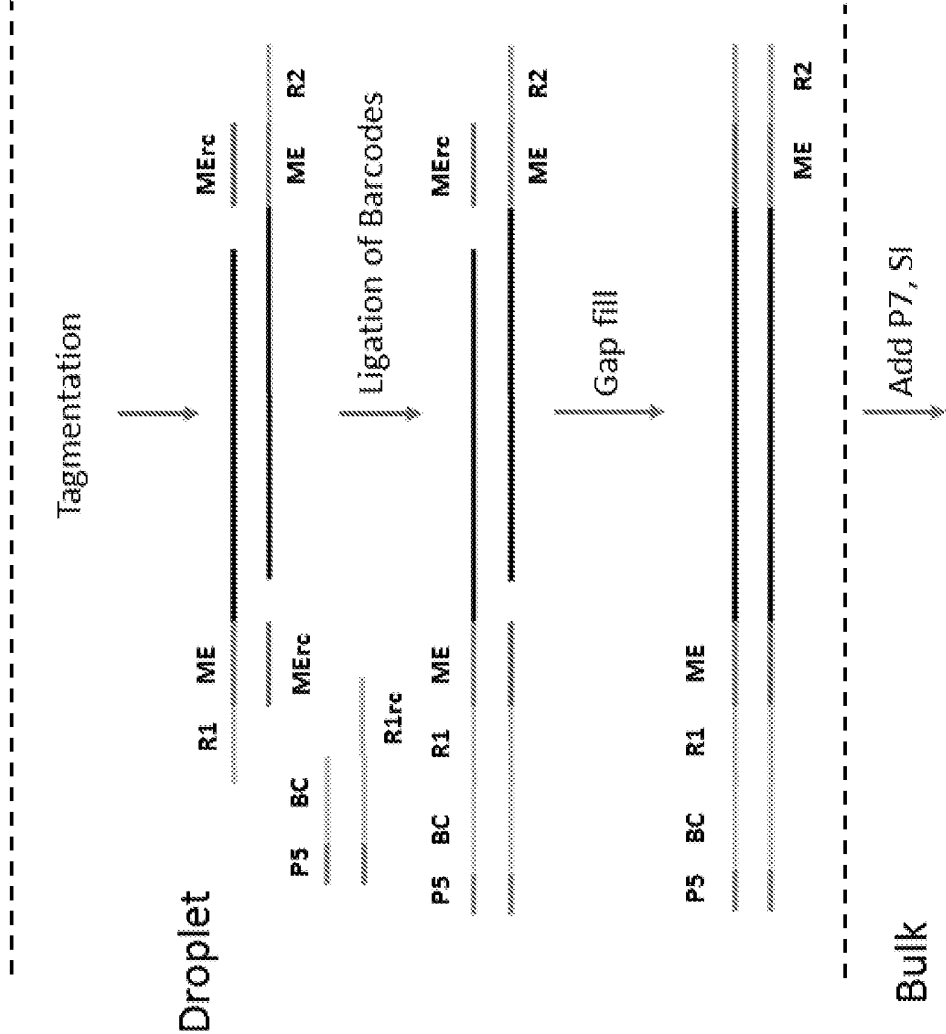


FIG. 82D



FIG. 83A

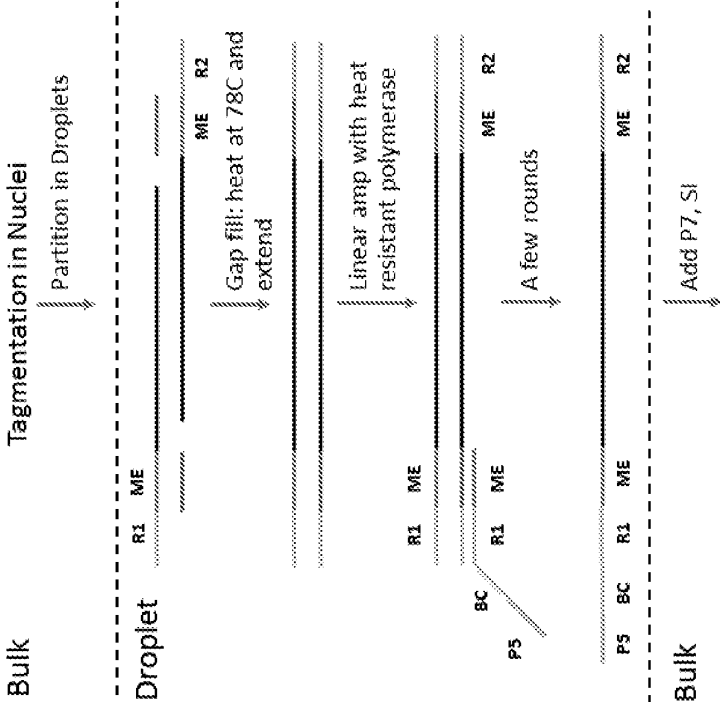


FIG. 83B

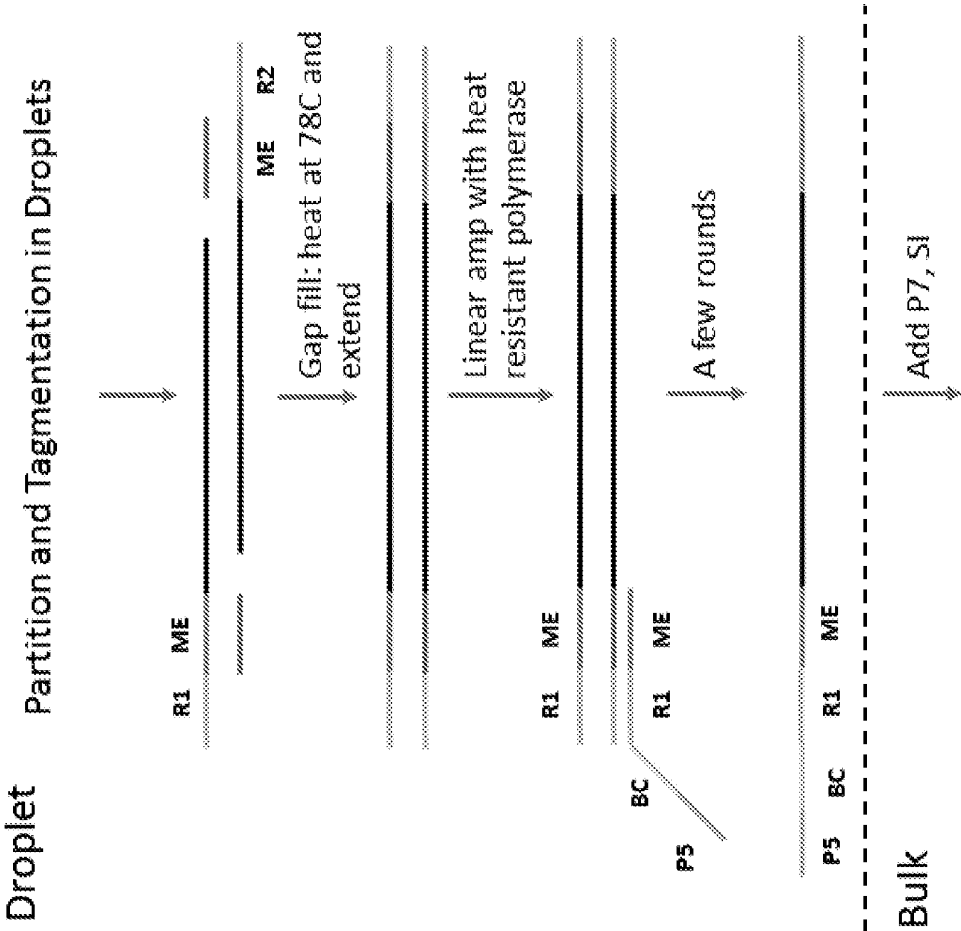


FIG. 84

TruSeqR1 BC

FIG. 85A

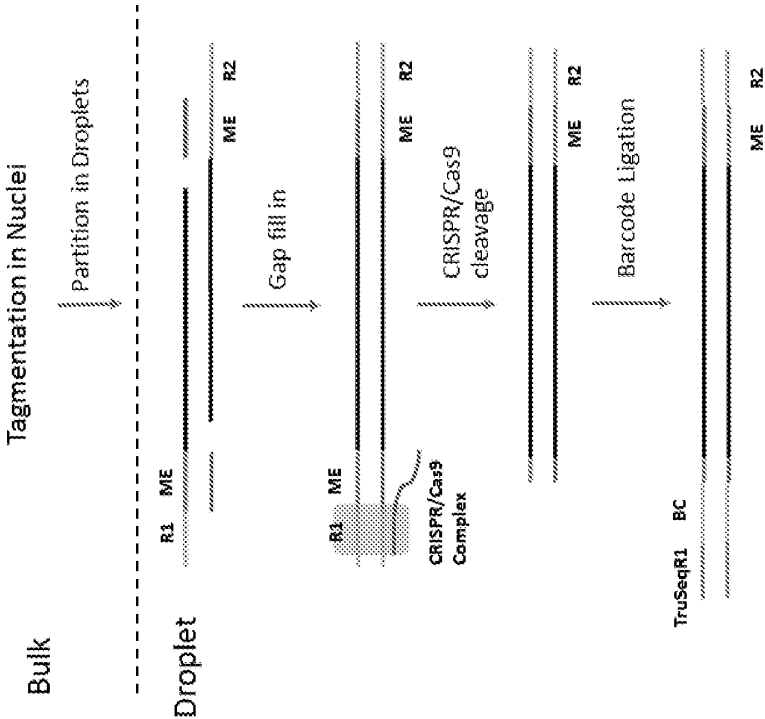


FIG. 85B

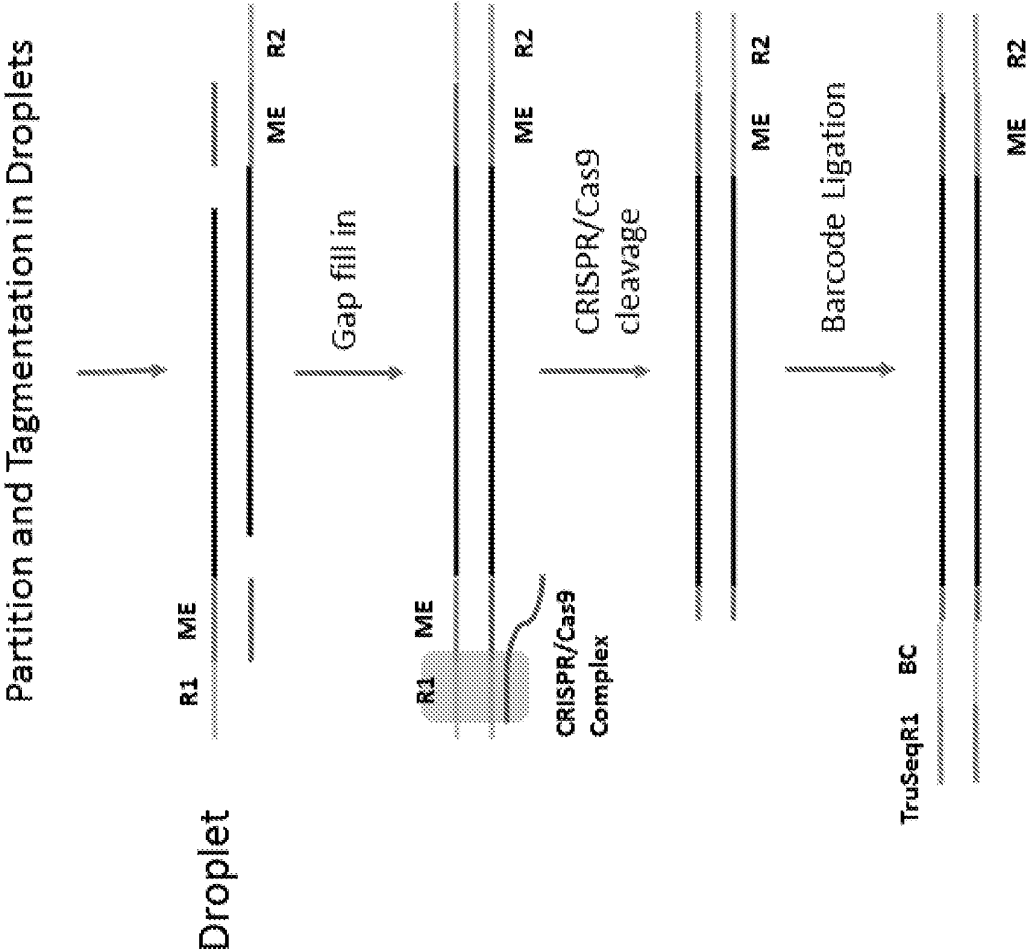


FIG. 85C

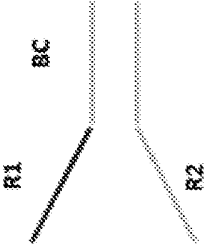


FIG. 86A

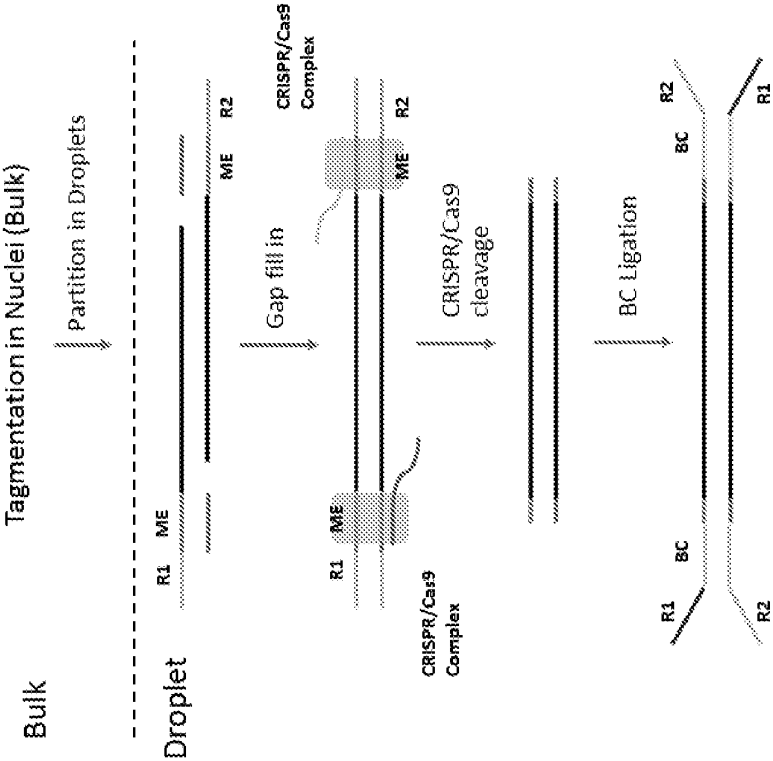


FIG. 86B

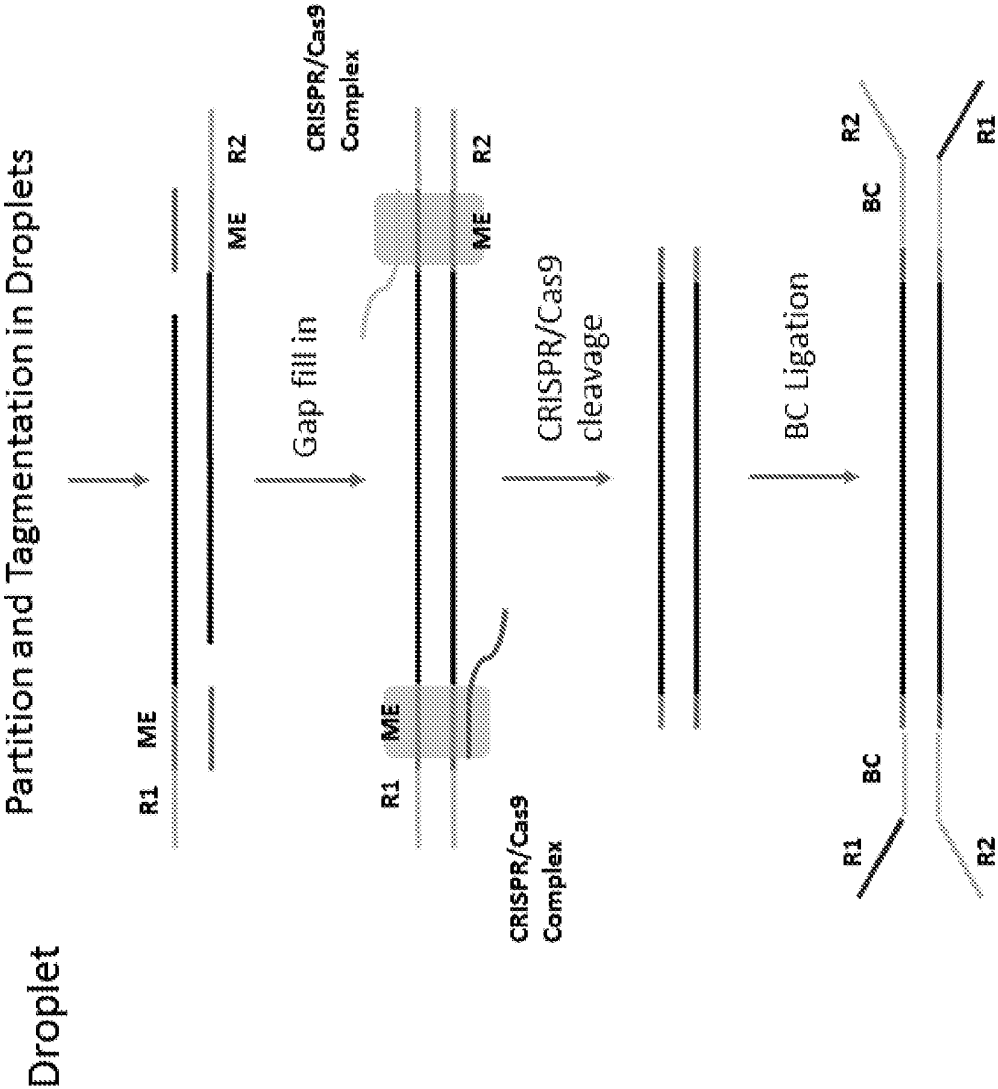


FIG. 86C

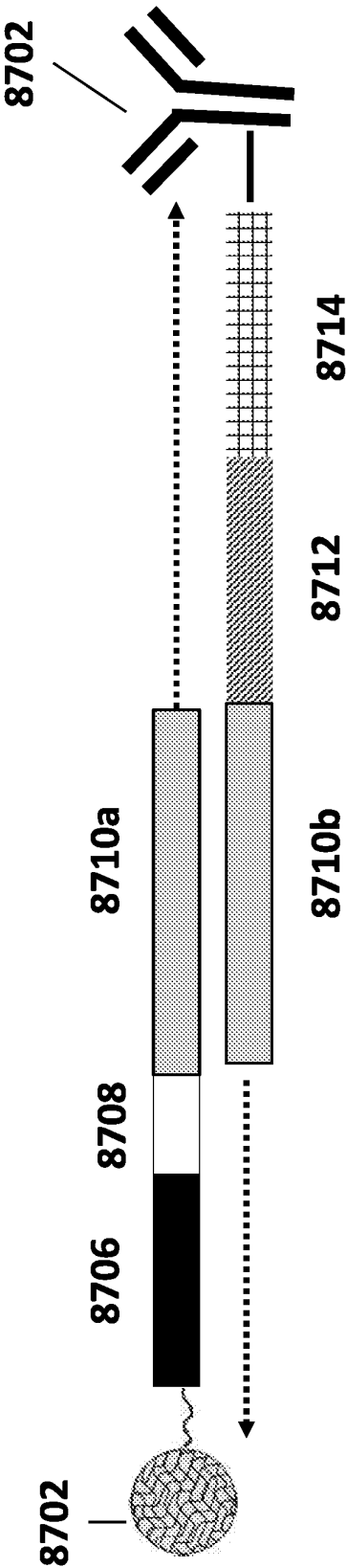


FIG. 87A

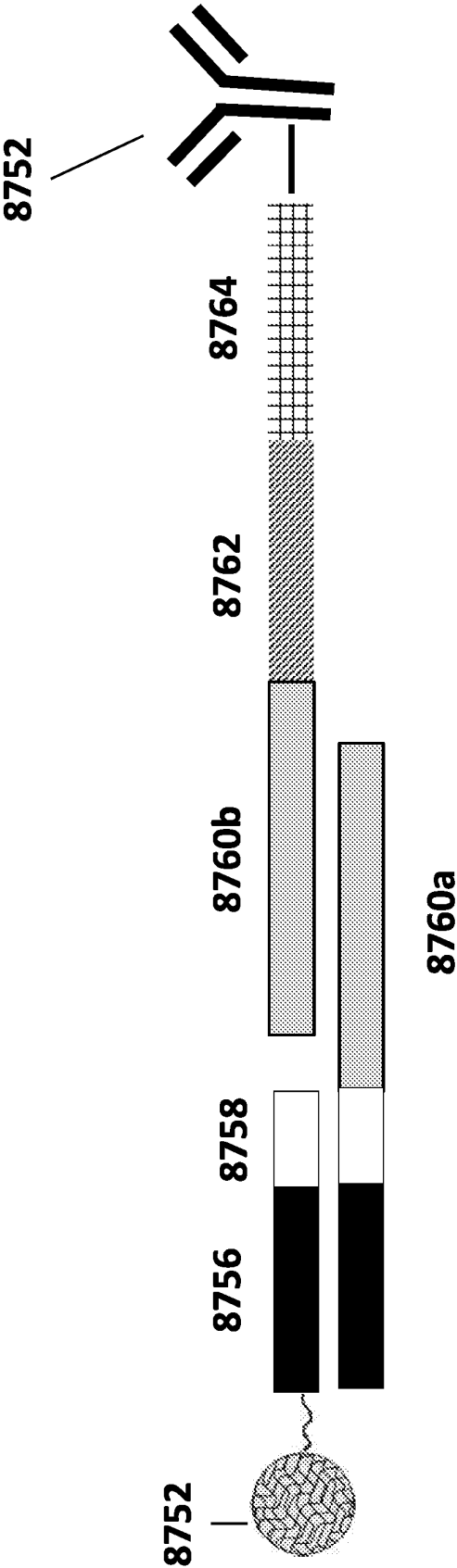


FIG. 87B

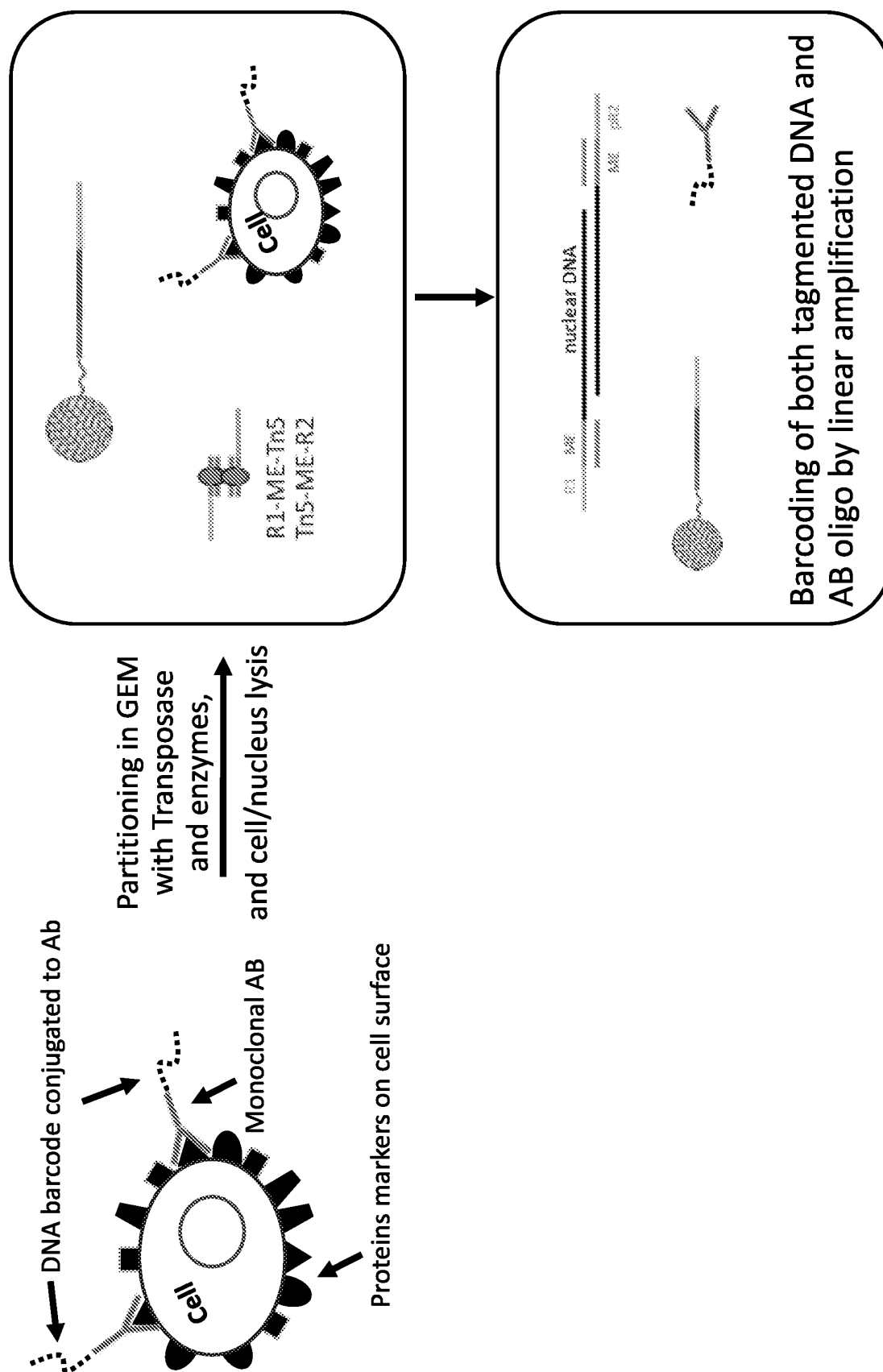


FIG. 88A

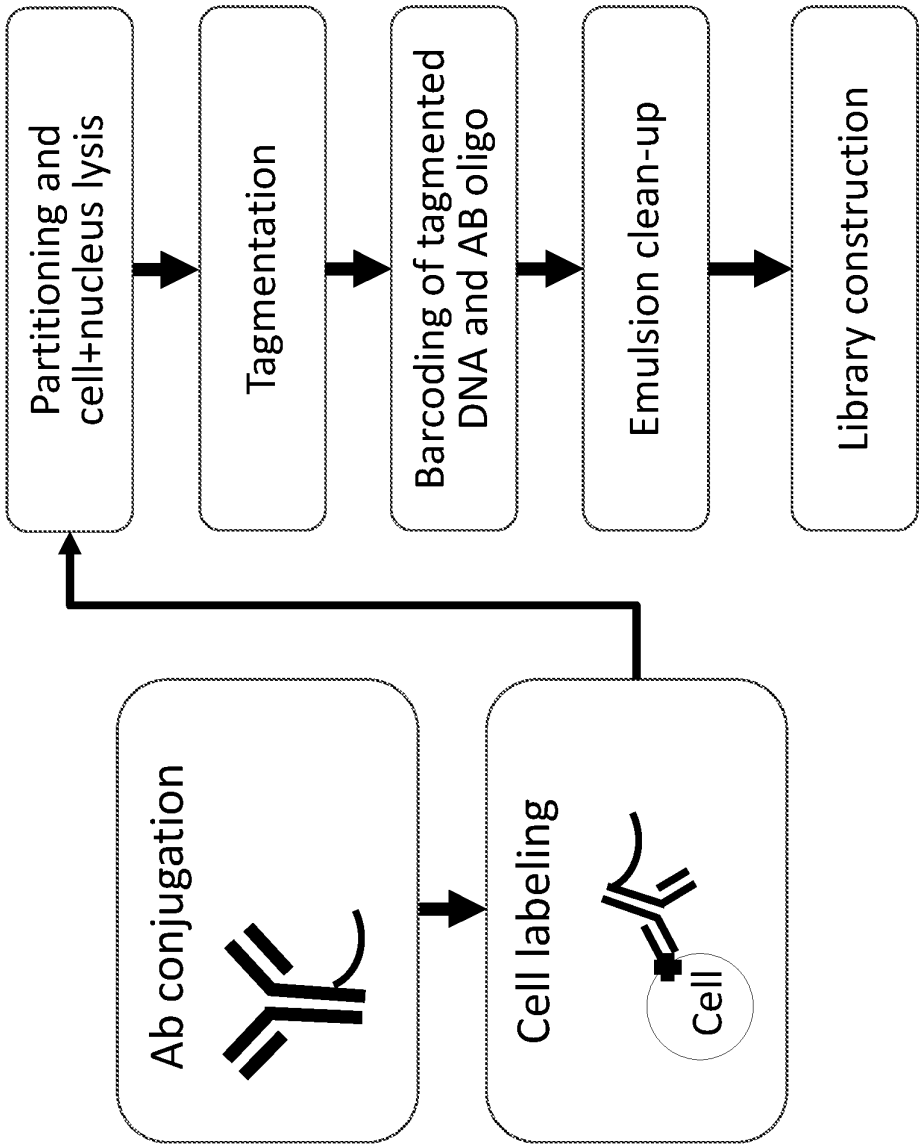


FIG. 88B

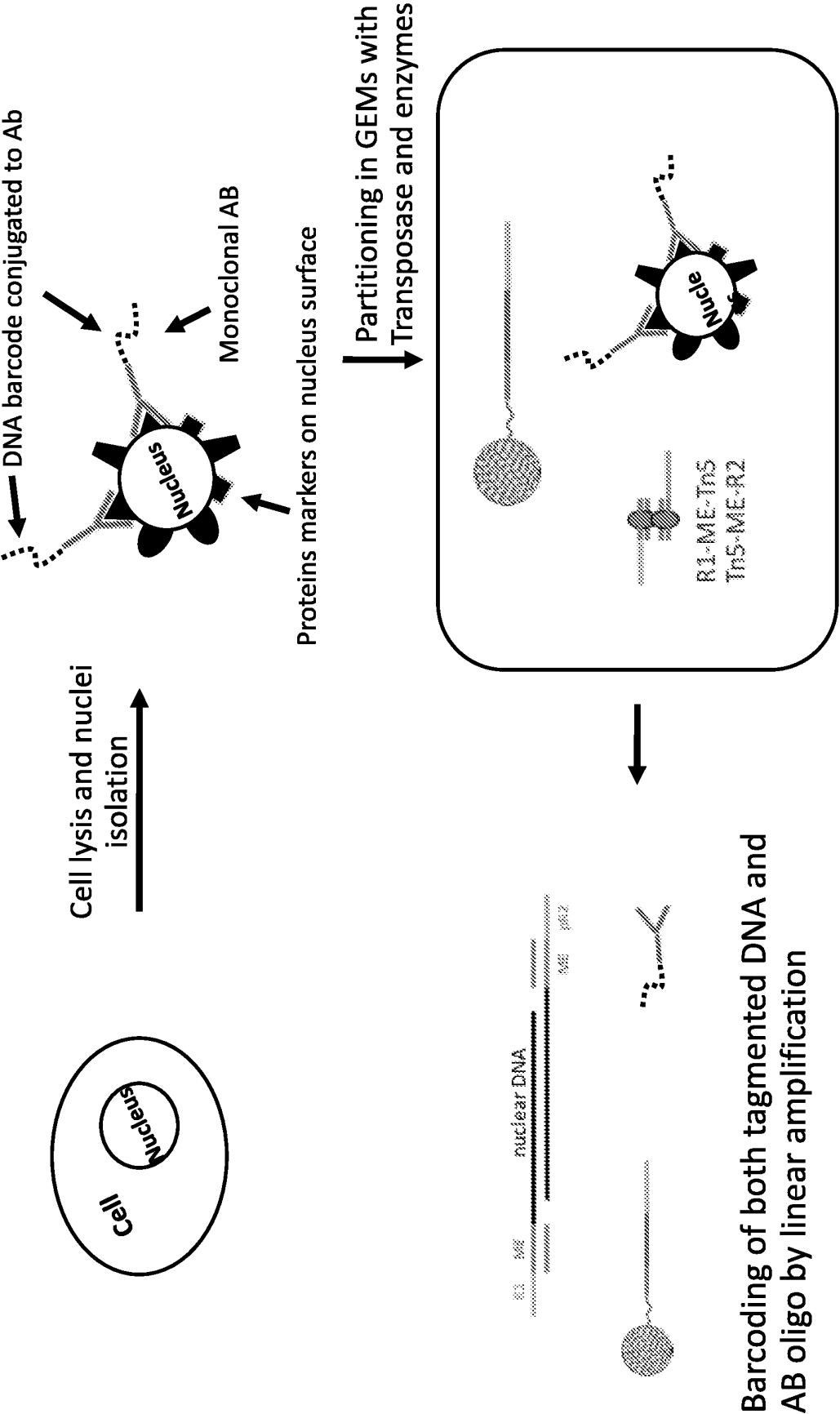


FIG. 89A

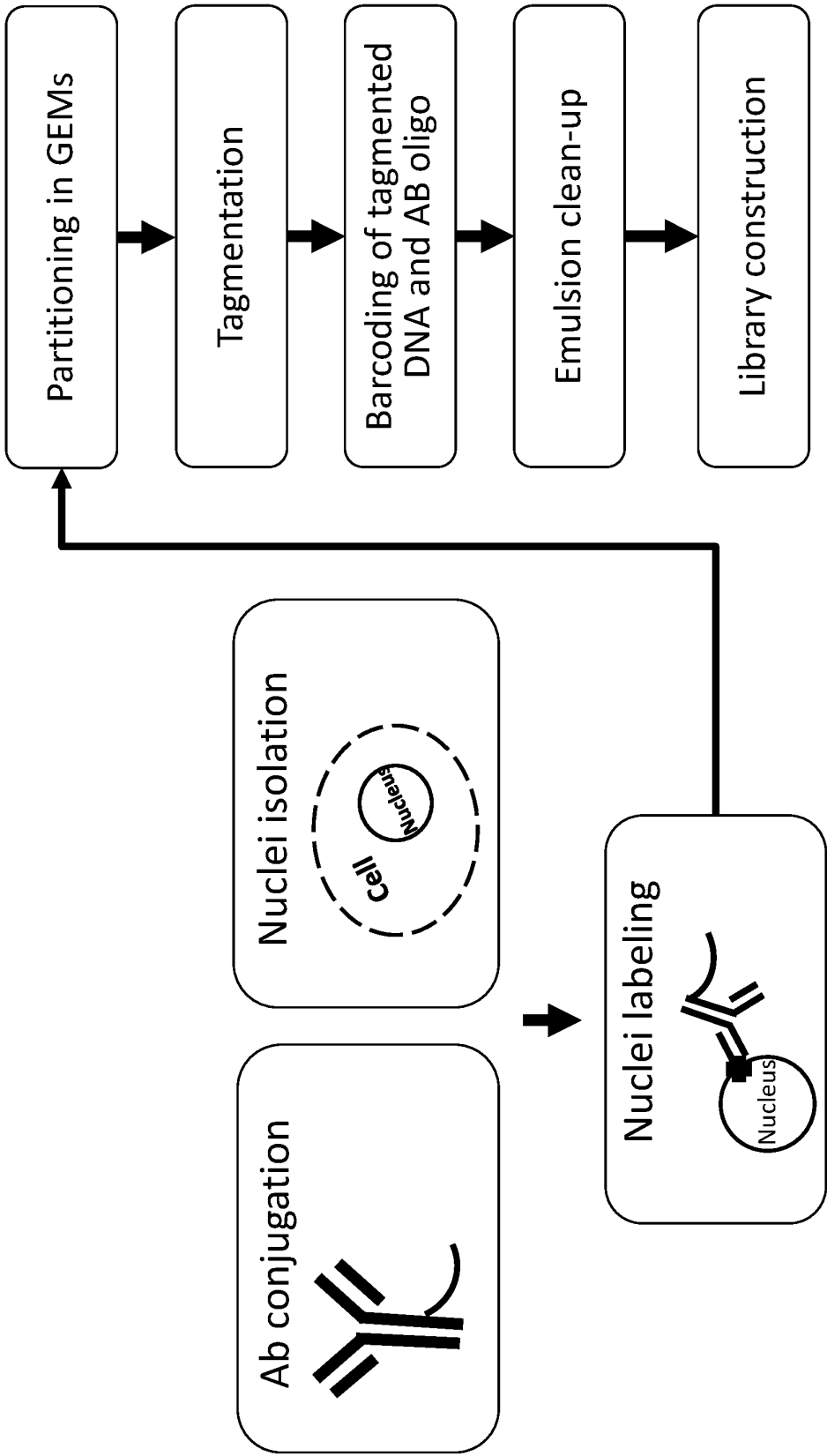


FIG. 89B

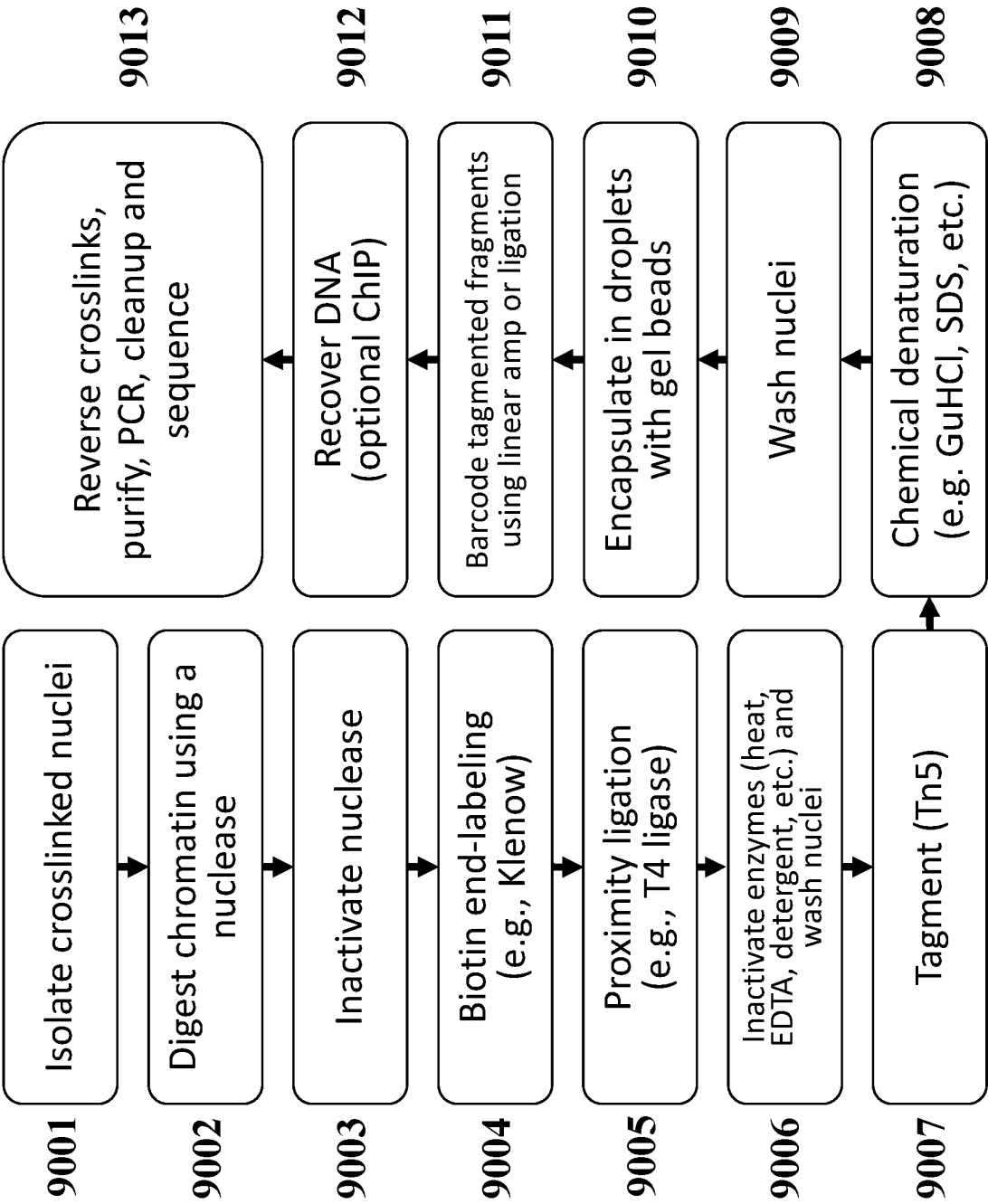


FIG. 90

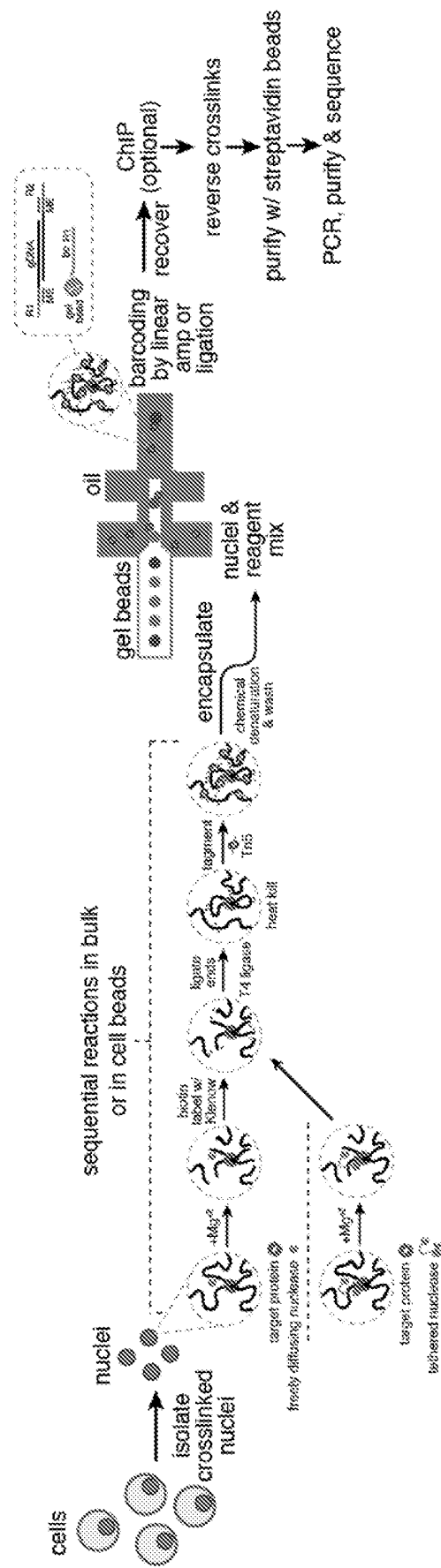


FIG. 91

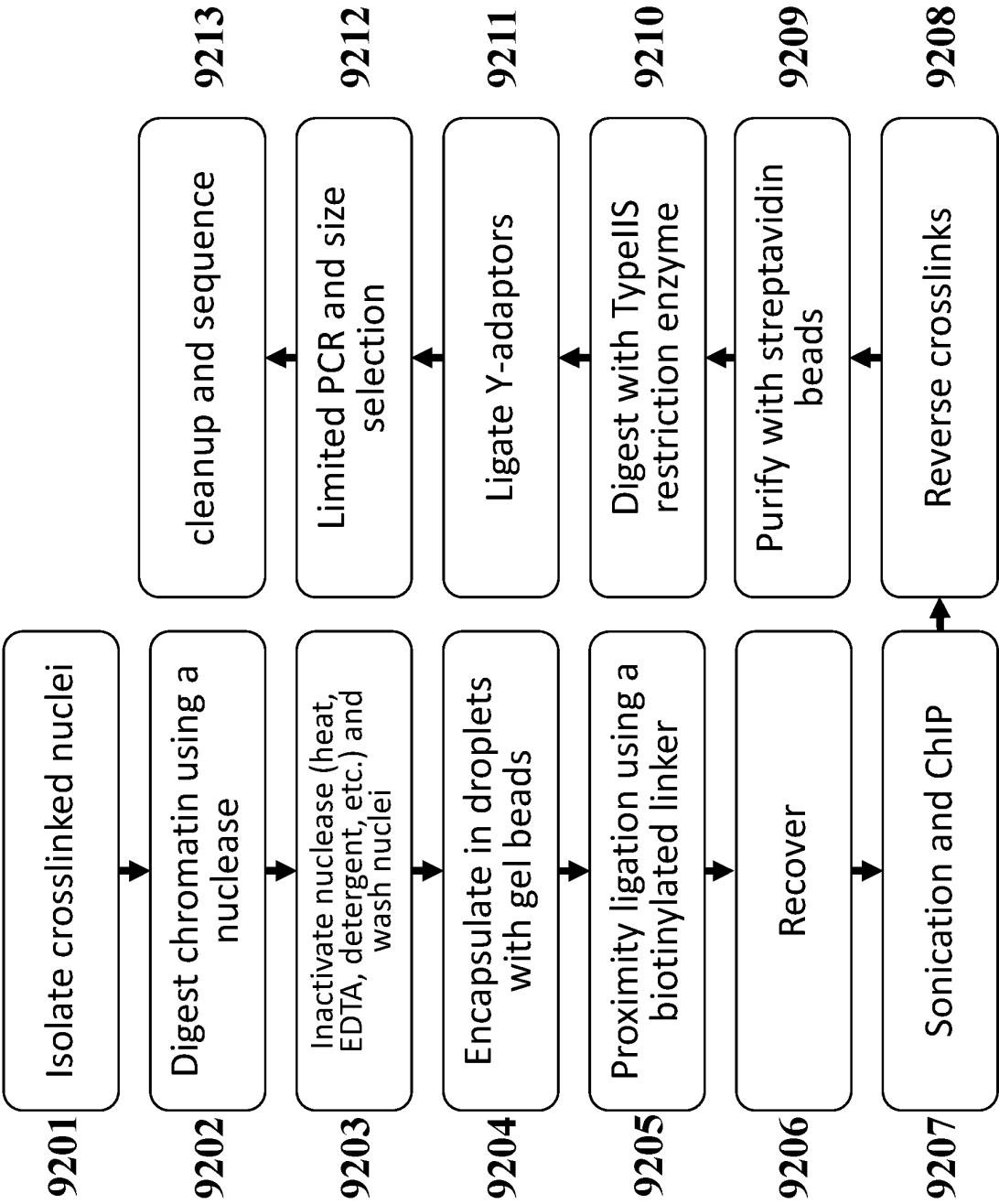


FIG. 92

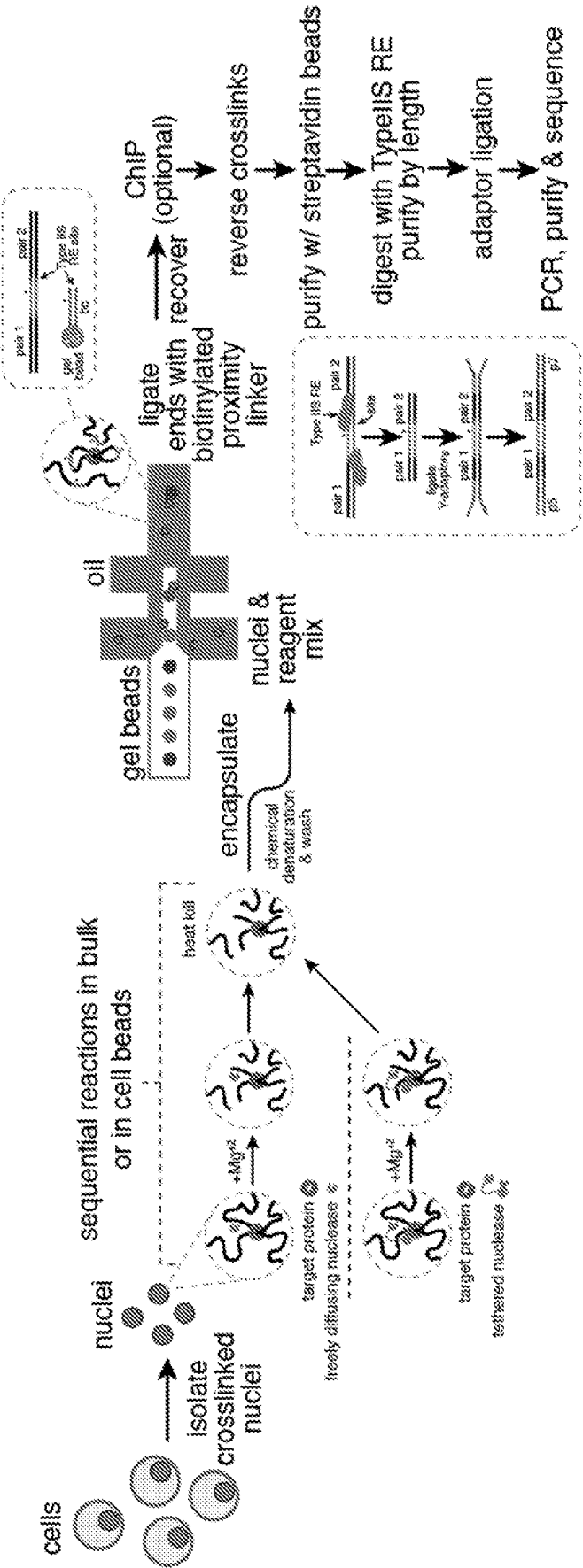


FIG. 93

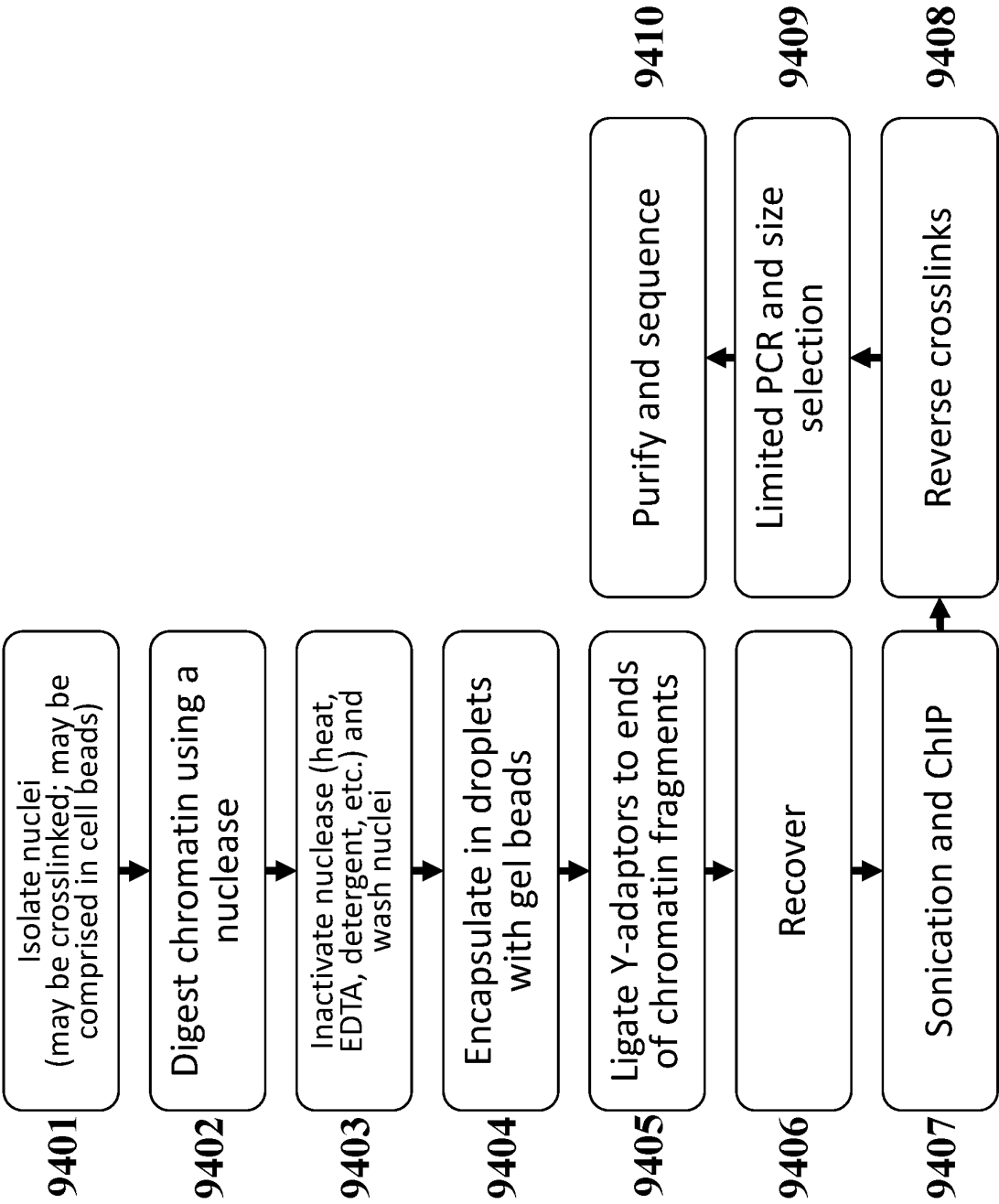


FIG. 94

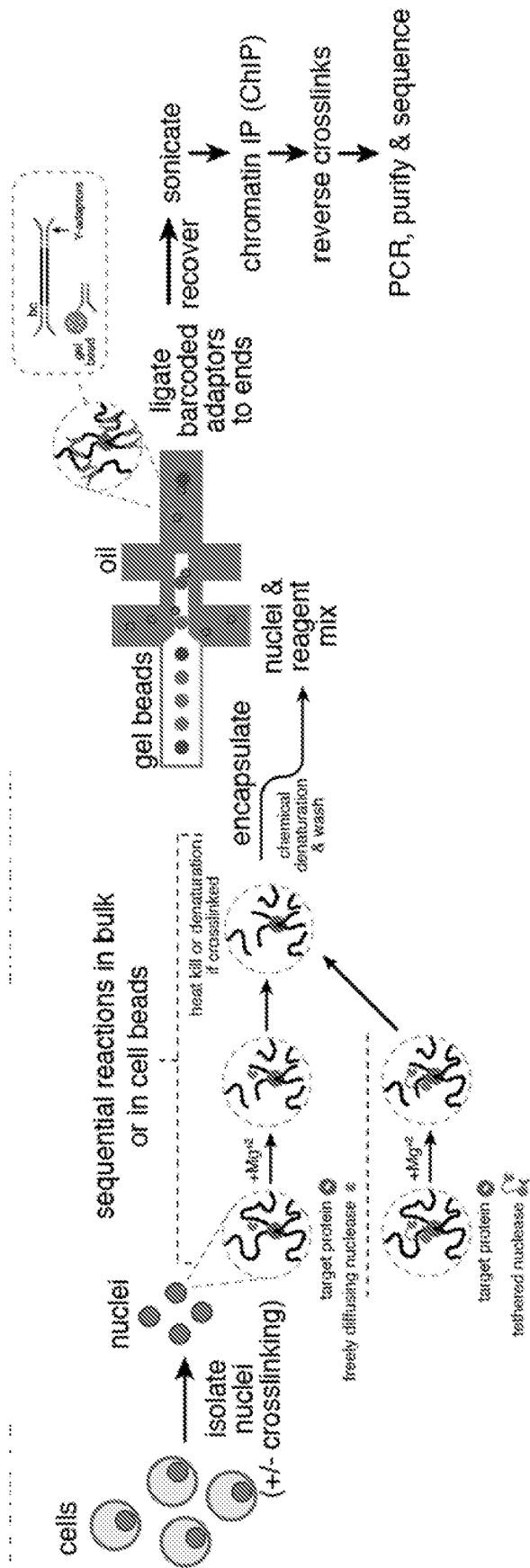
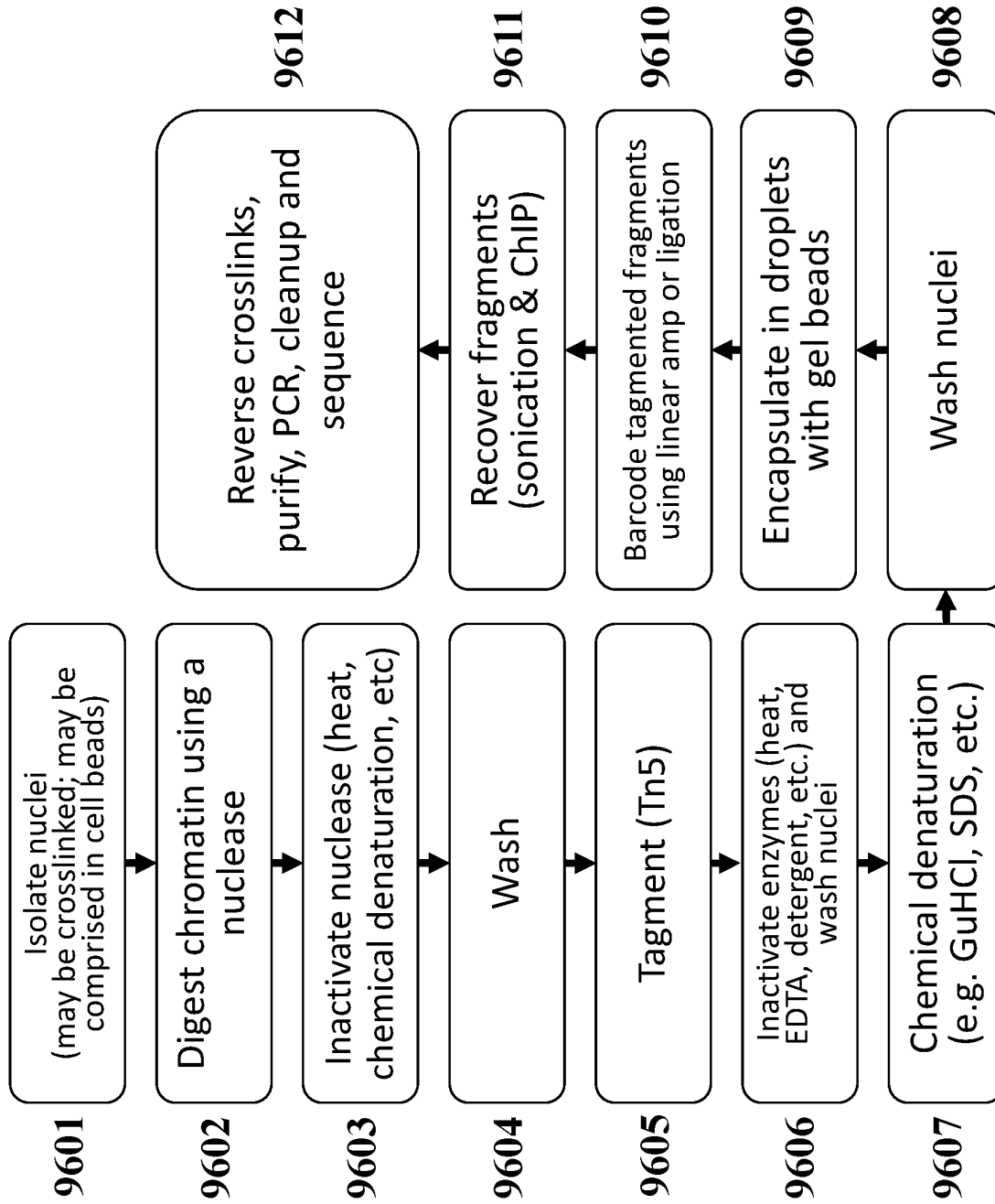


FIG. 95

**FIG. 96**

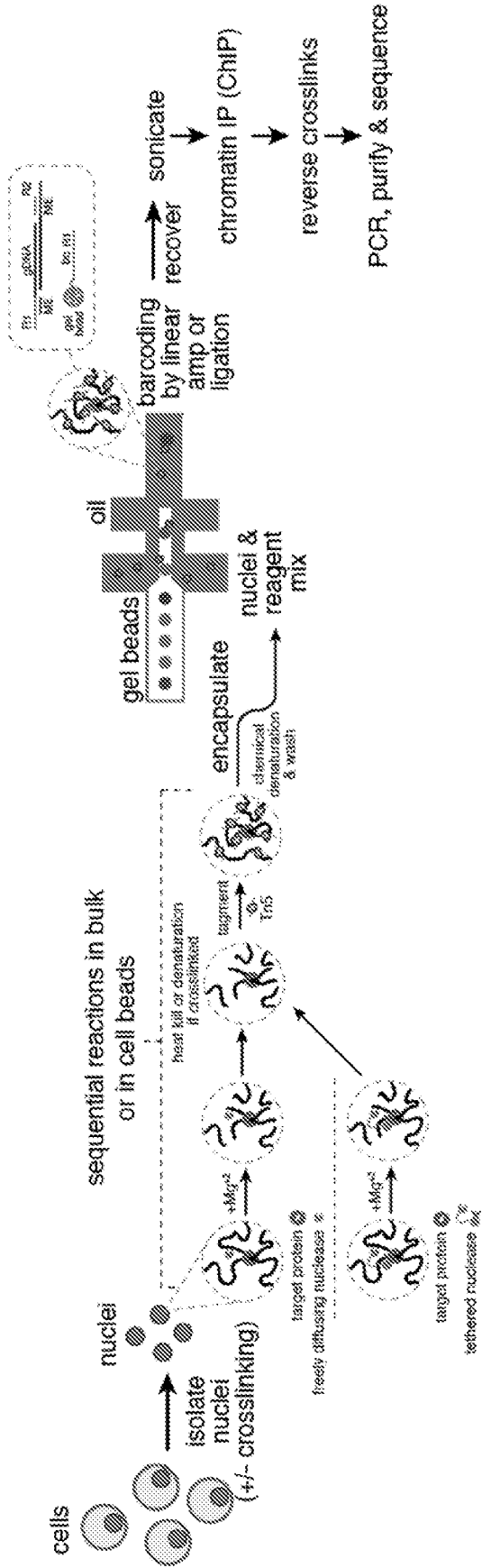
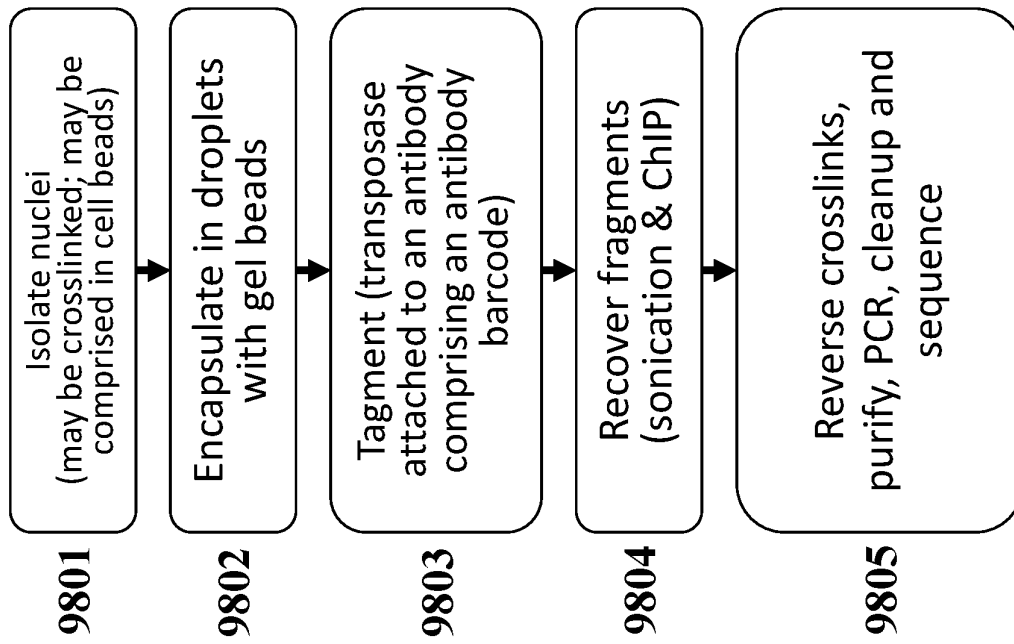


FIG. 97

**FIG. 98**

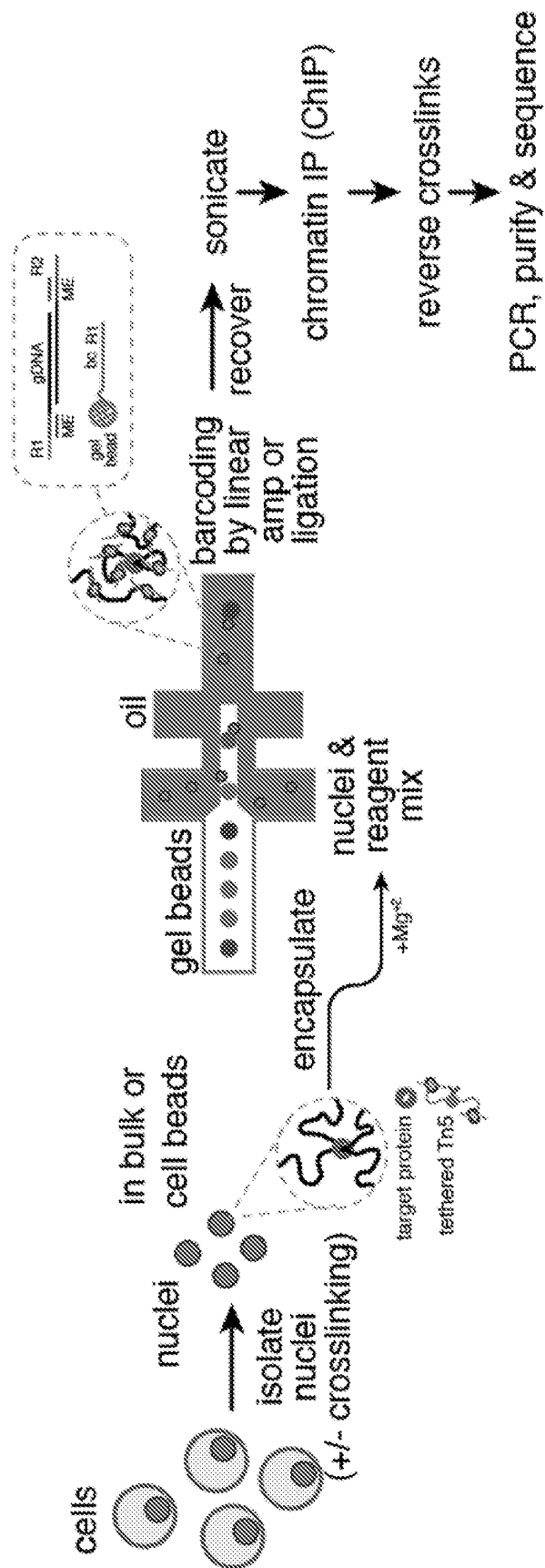


FIG. 99

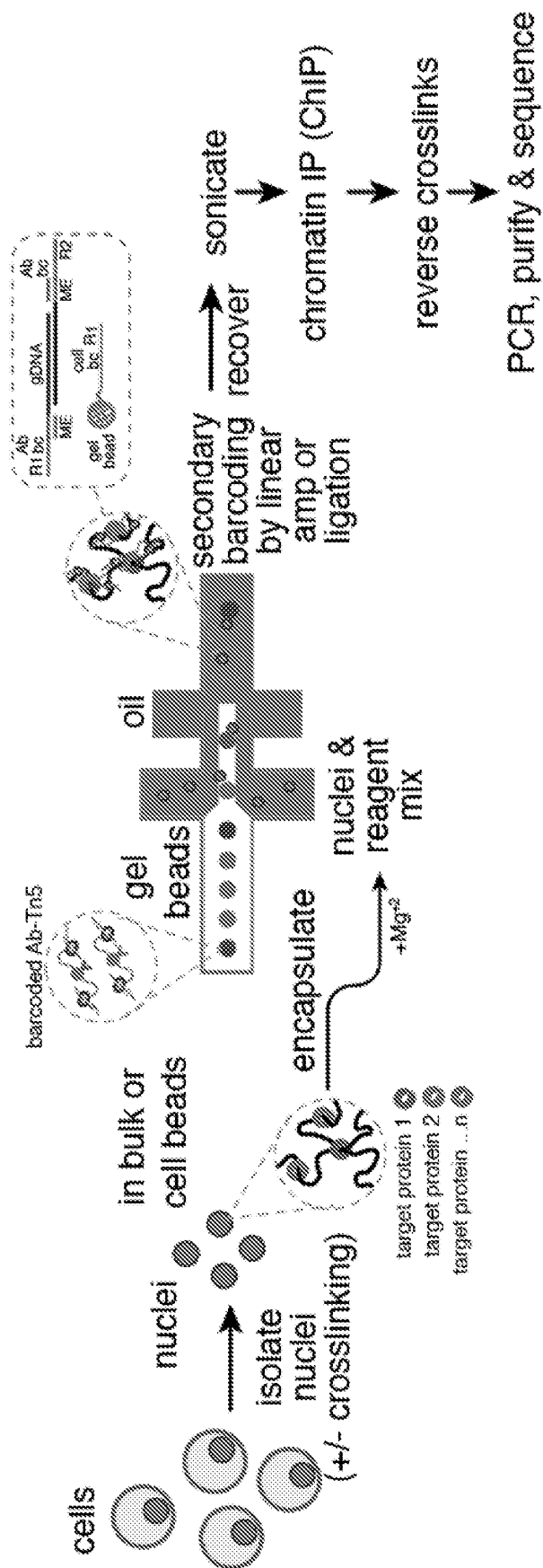


FIG. 100

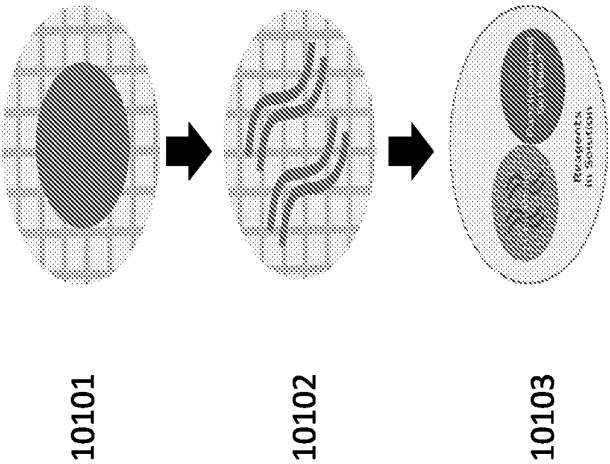


FIG. 101

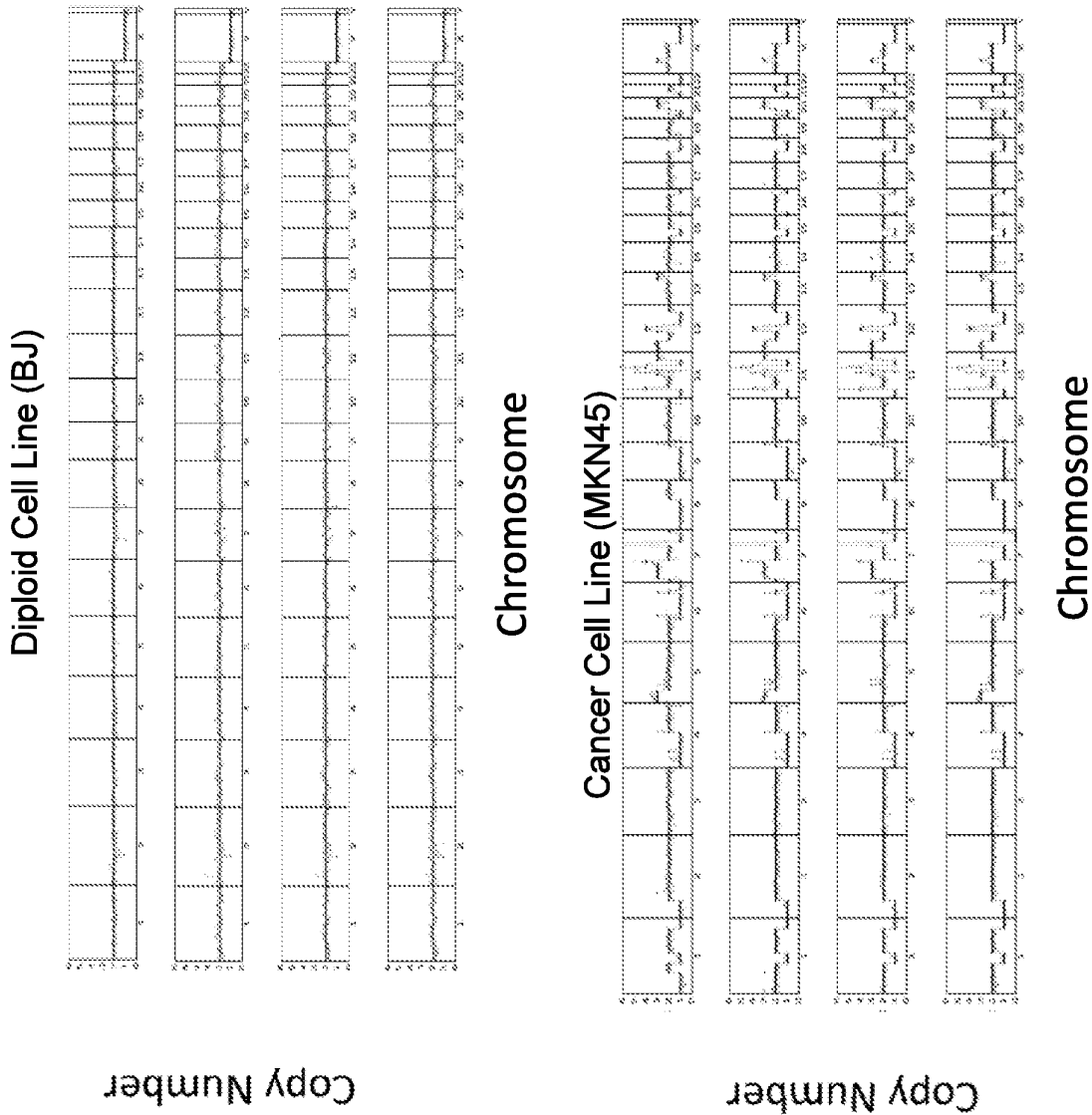


FIG. 102

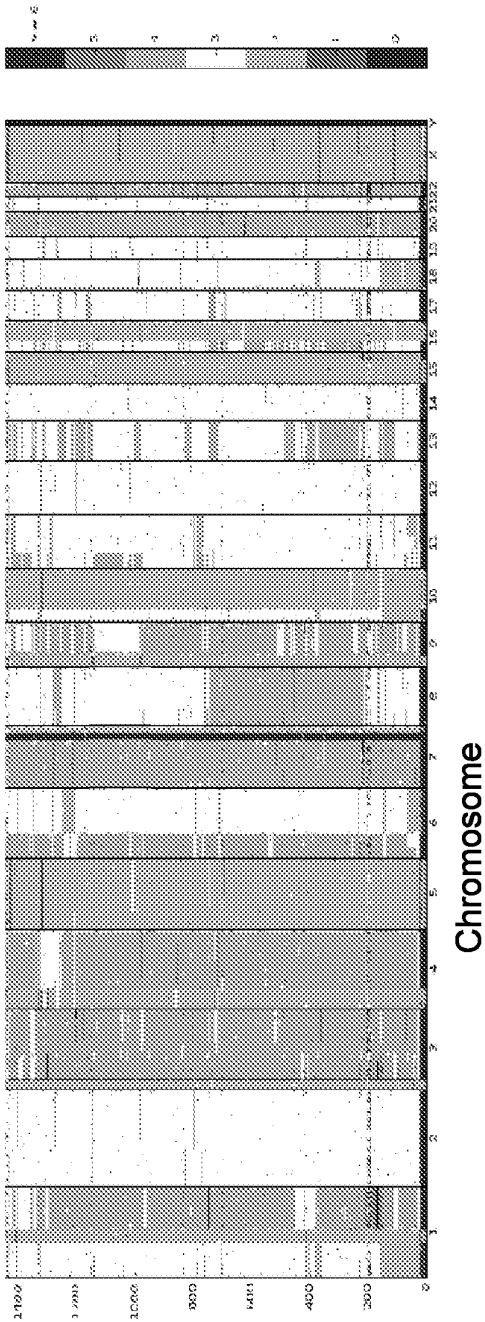


FIG. 103A



FIG. 103B

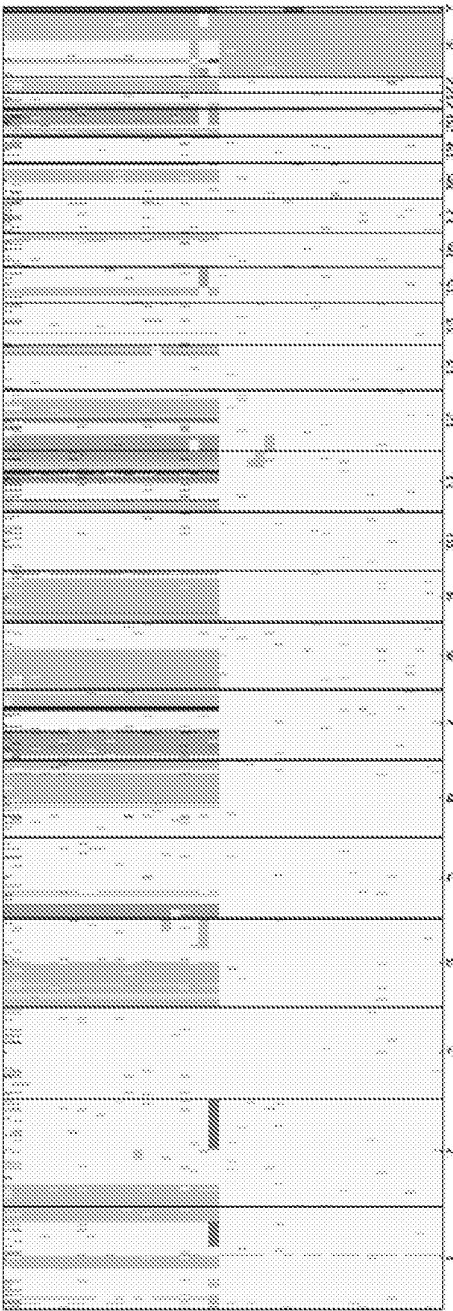


FIG. 104A

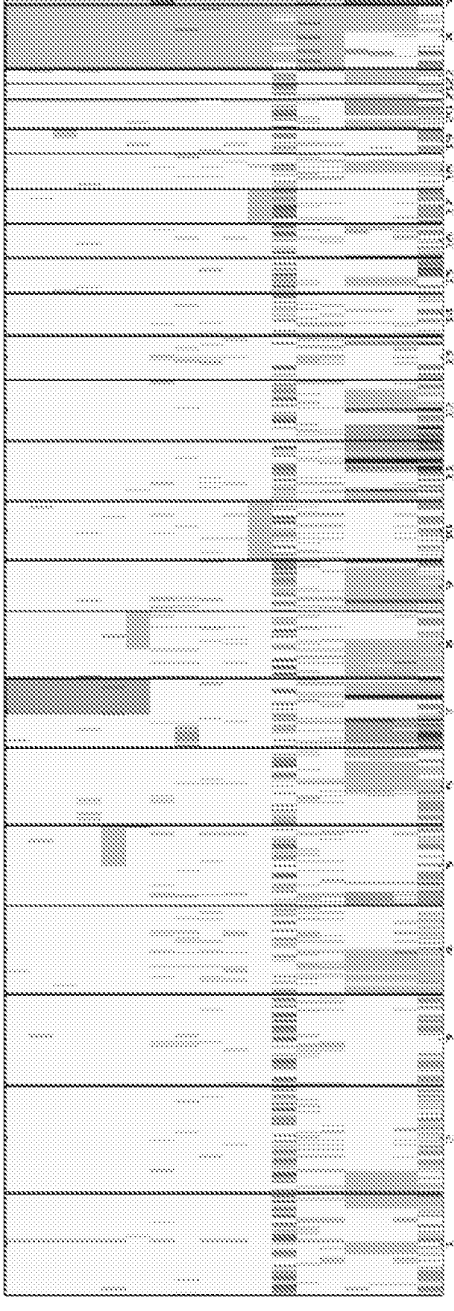
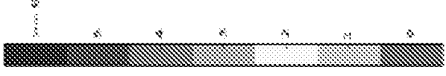


FIG. 104B

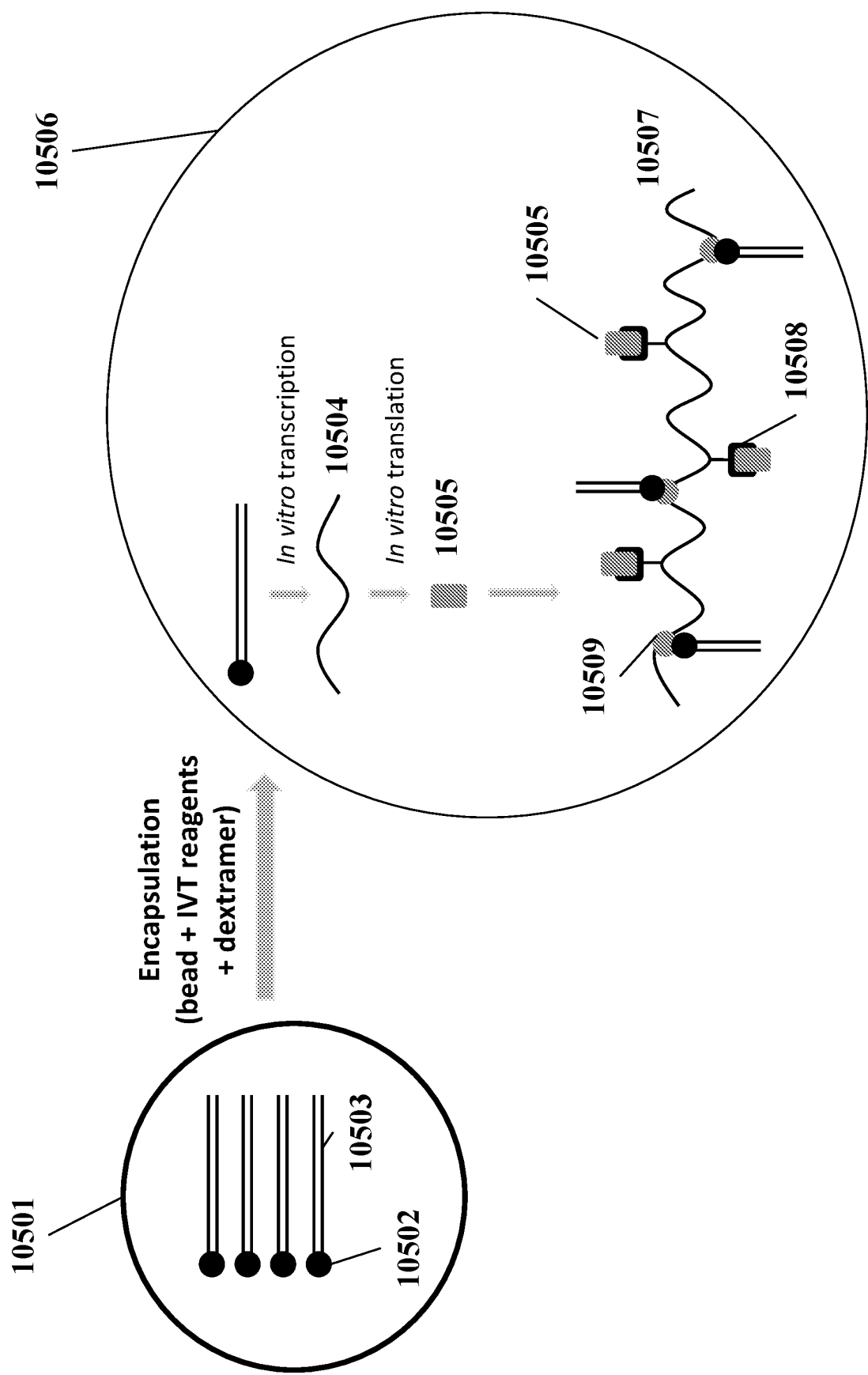
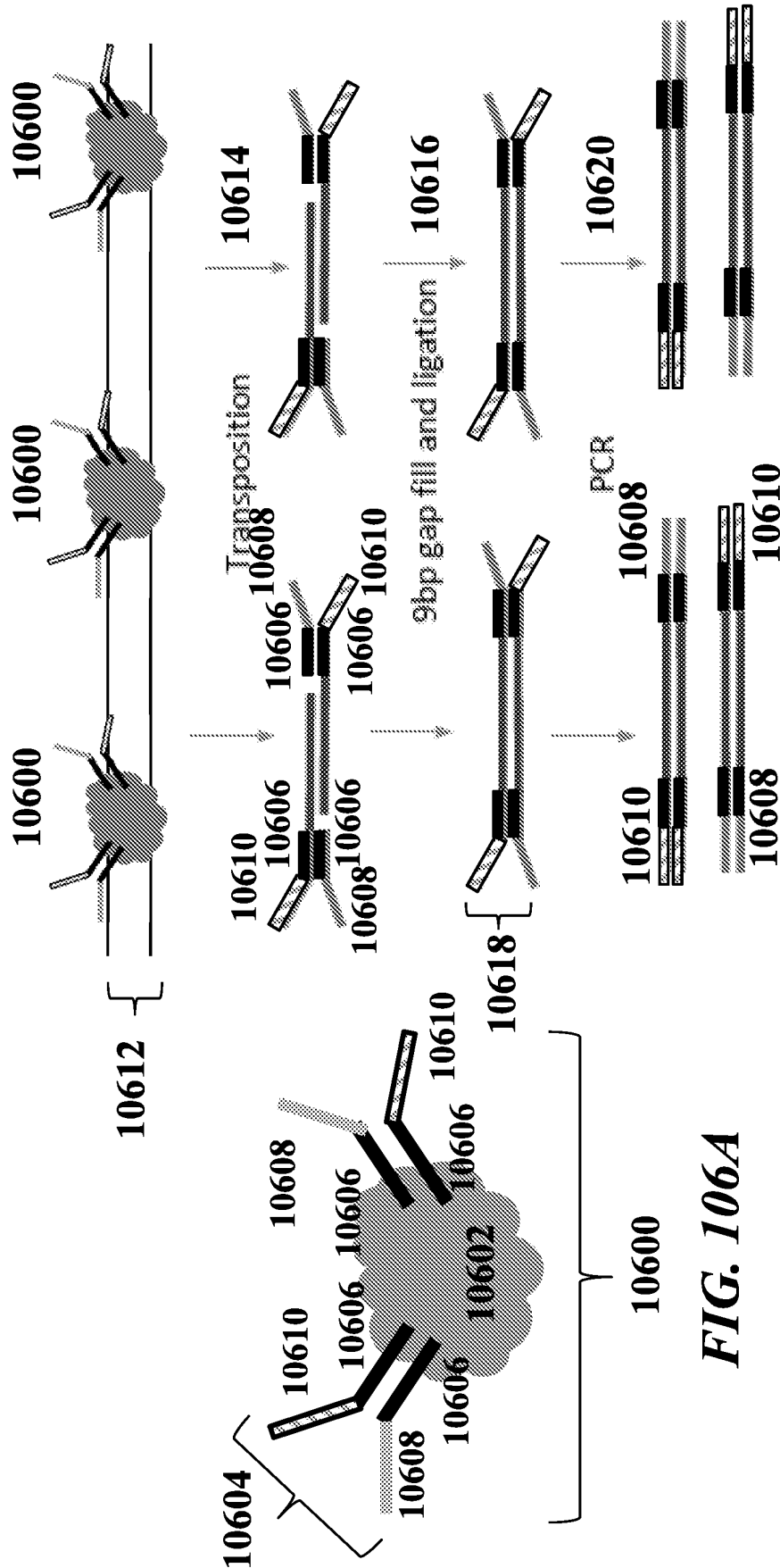


FIG. 105



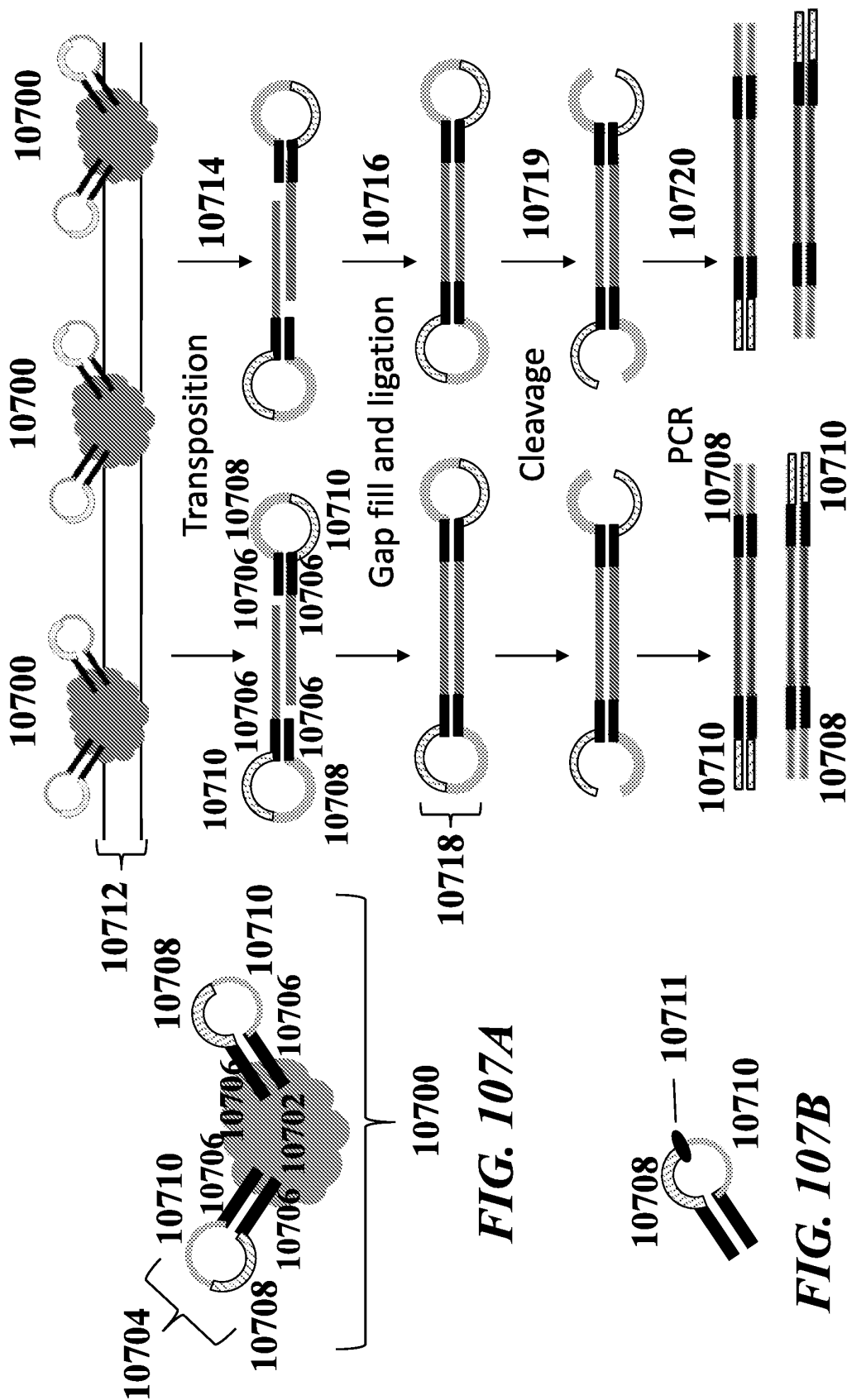
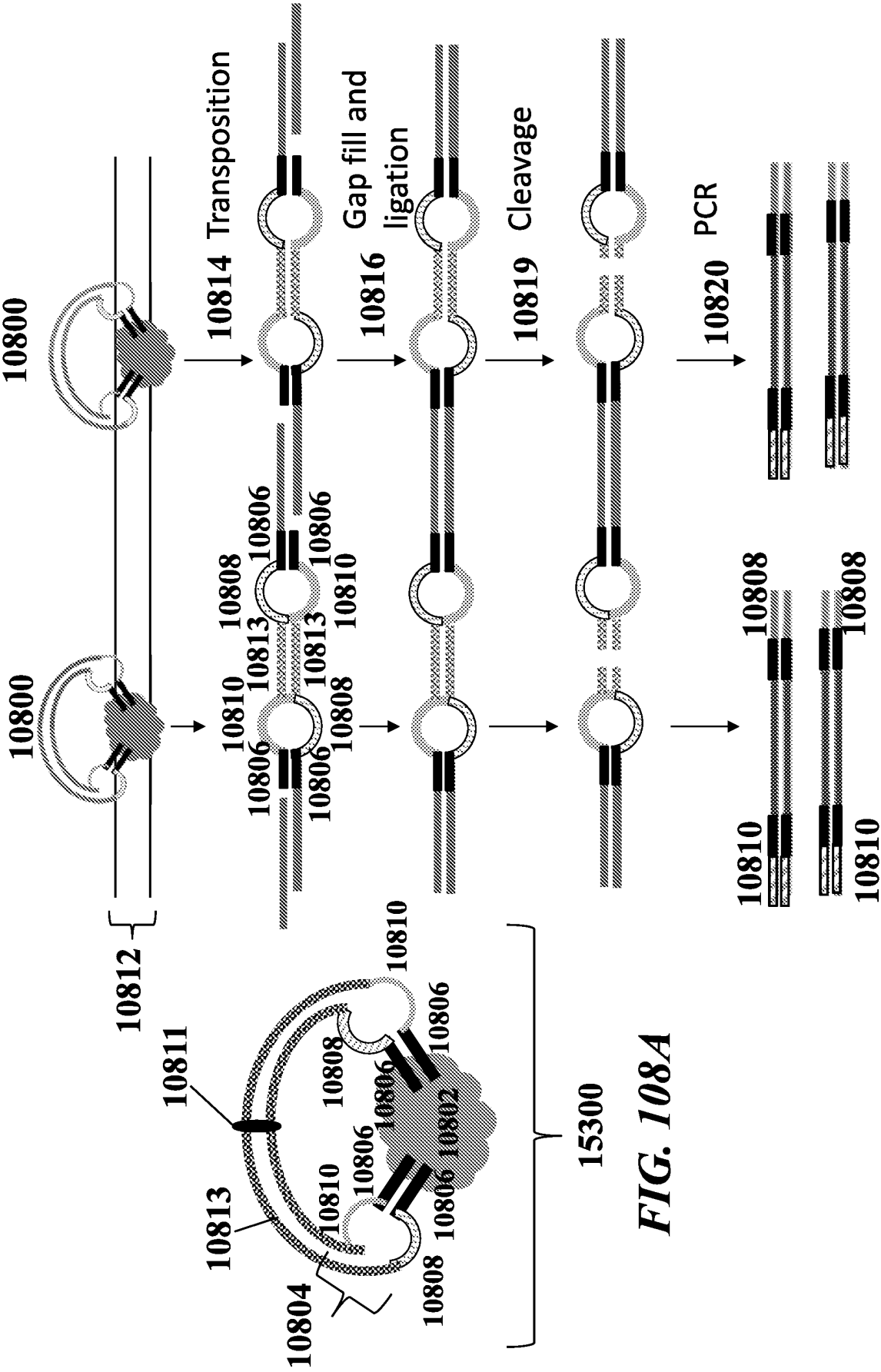


FIG. 107C

FIG. 107A

FIG. 107B



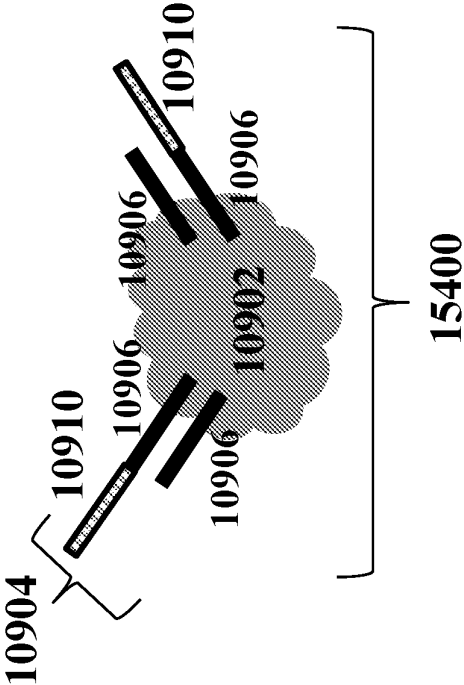
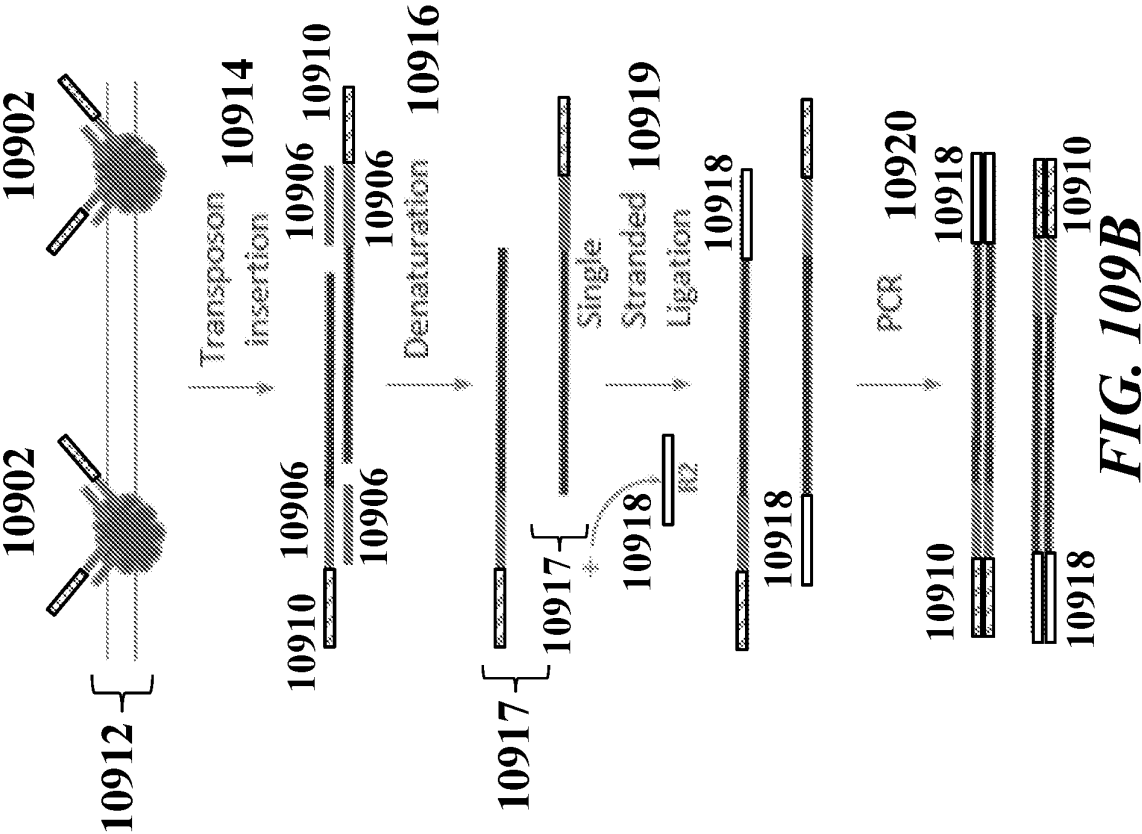
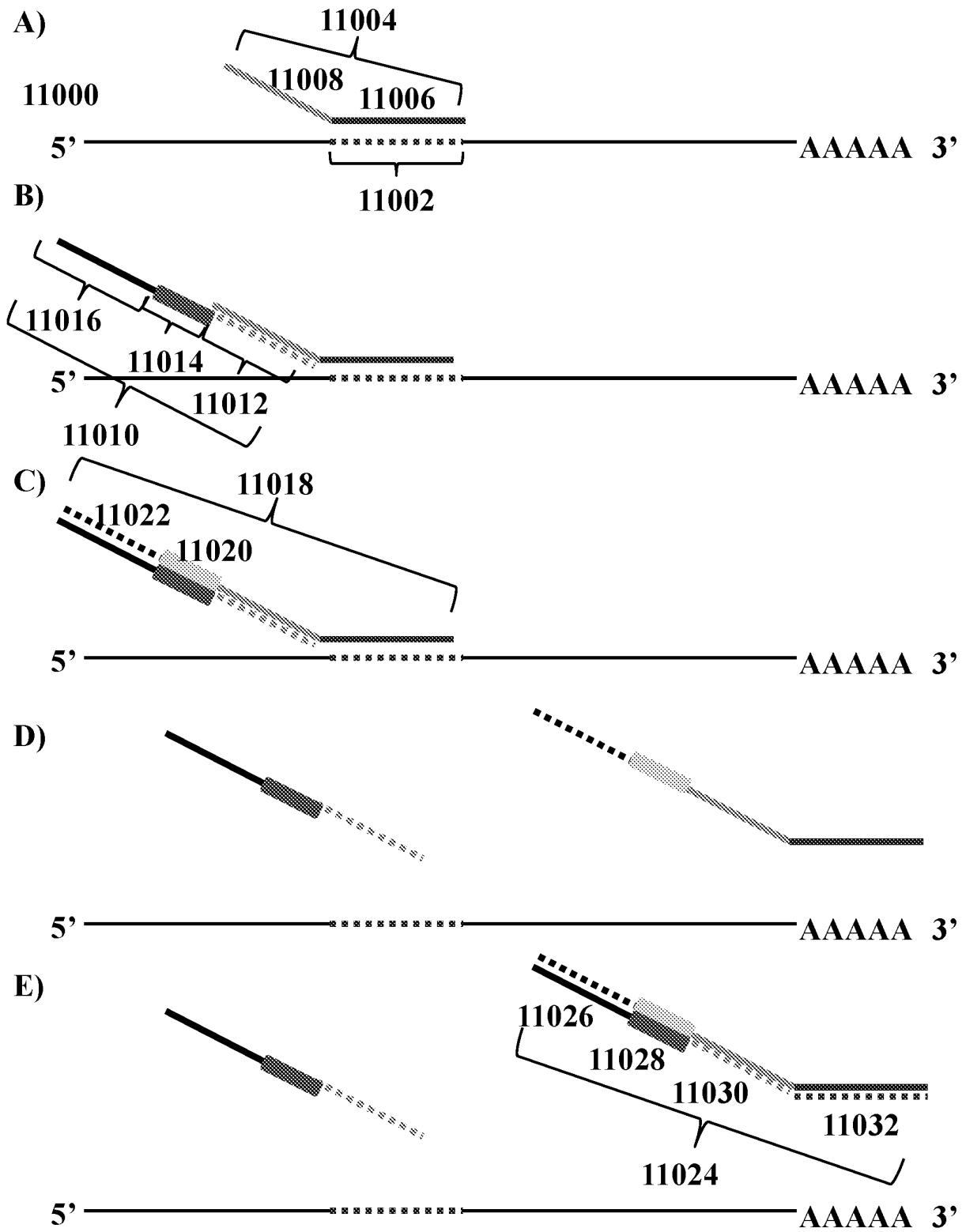


FIG. 109A

FIG. 109B

**FIG. 110**

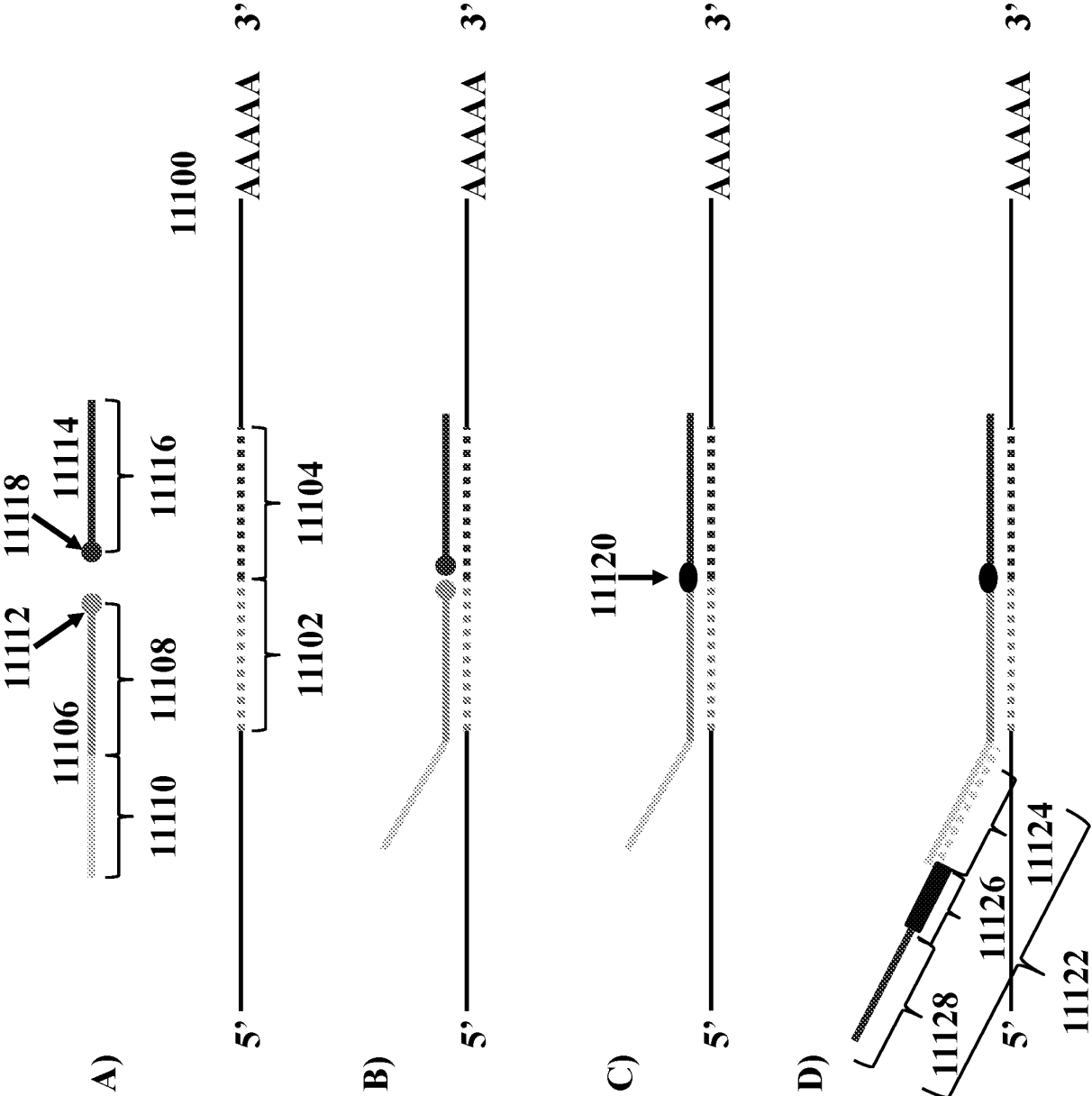


FIG. 111

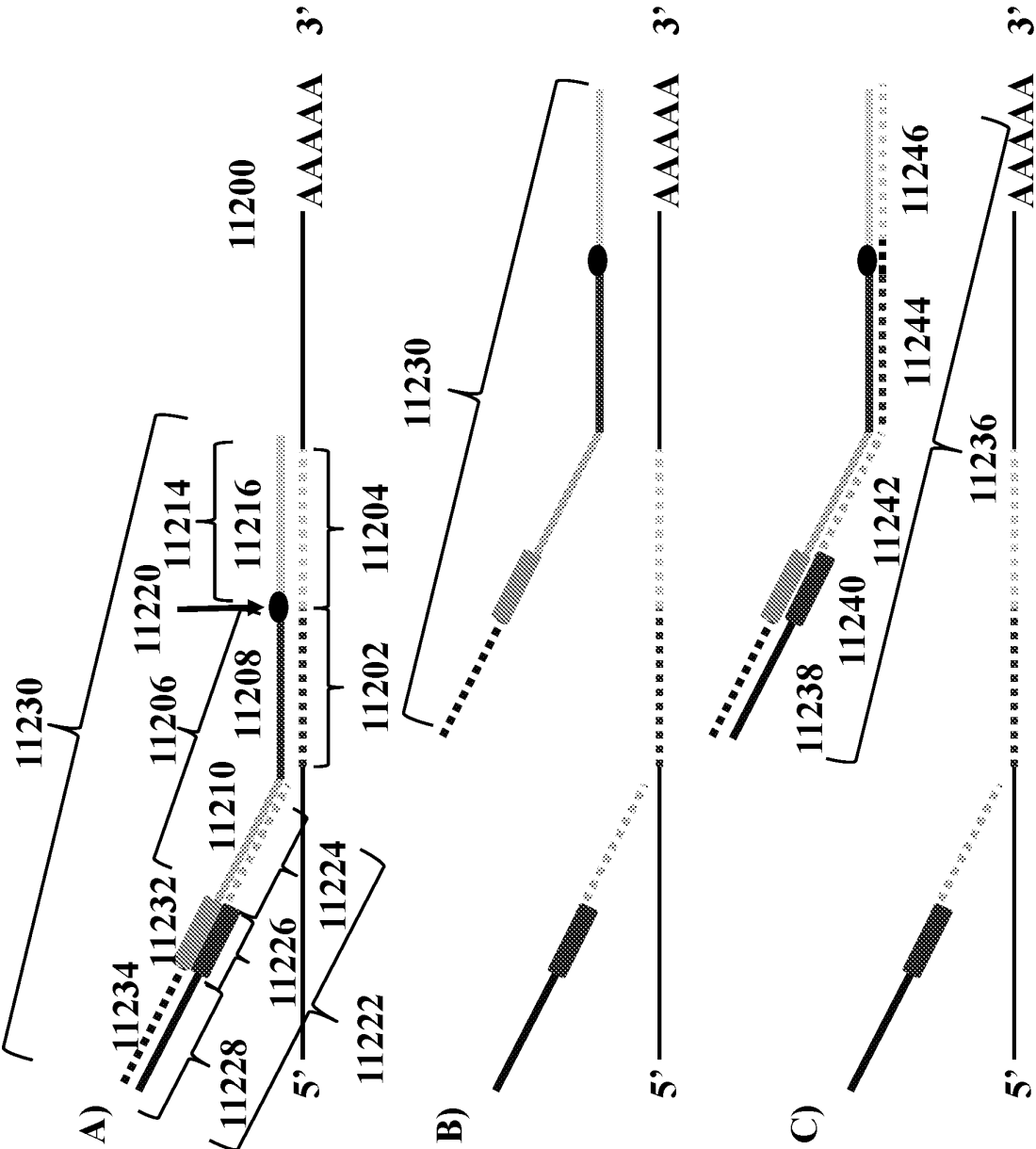
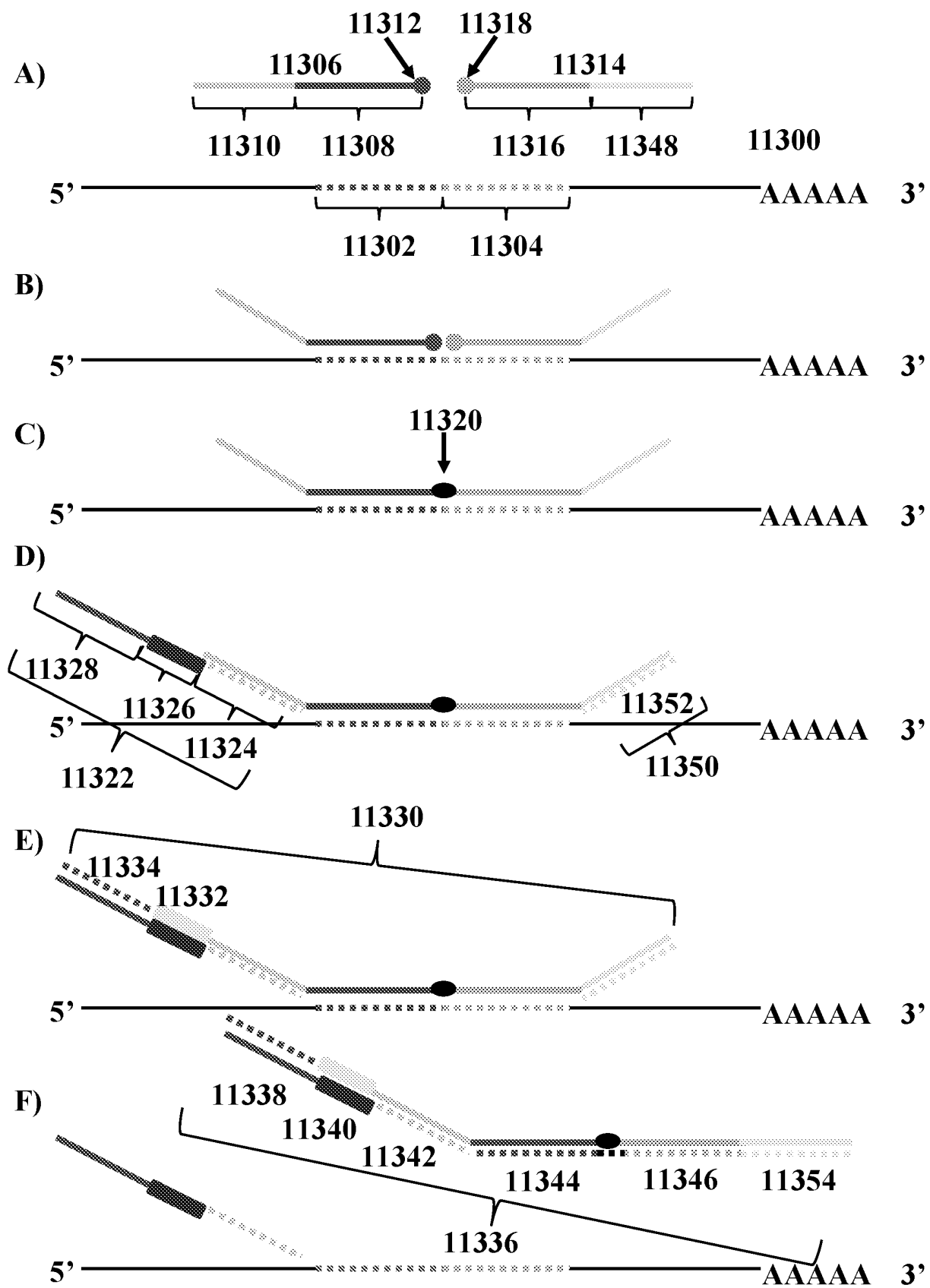
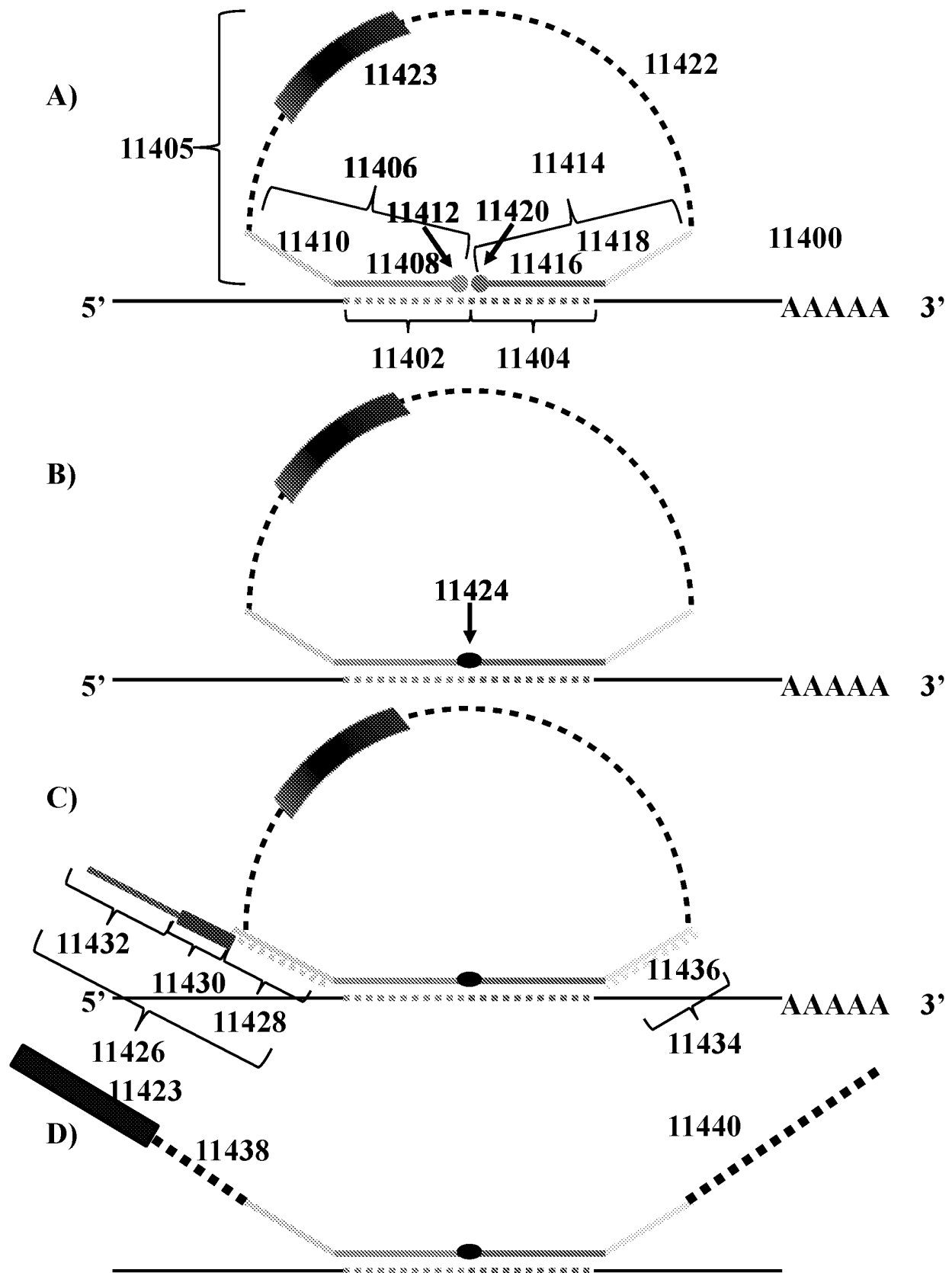
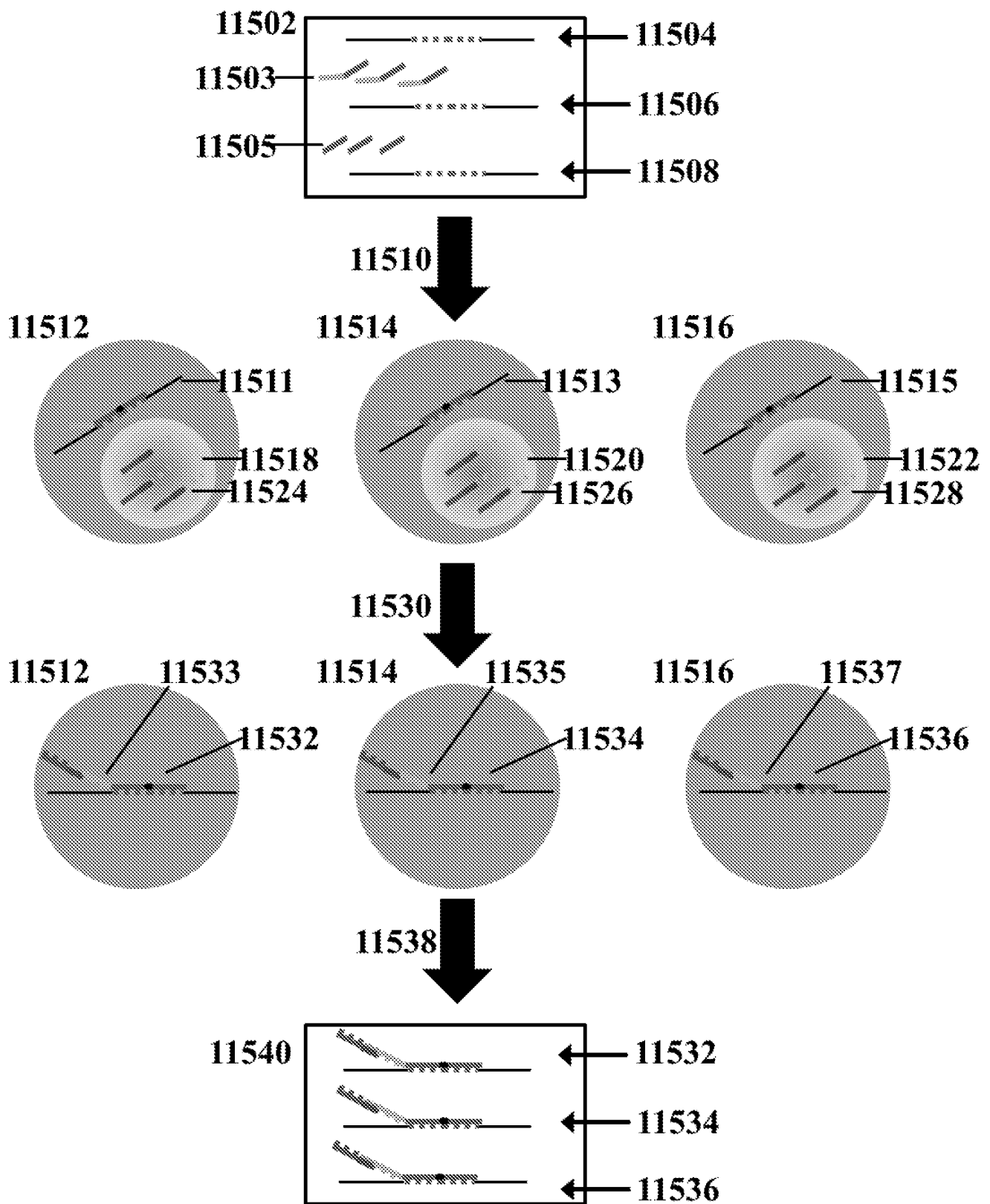


FIG. 112

**FIG. 113**

**FIG. 114**

*FIG. 115*

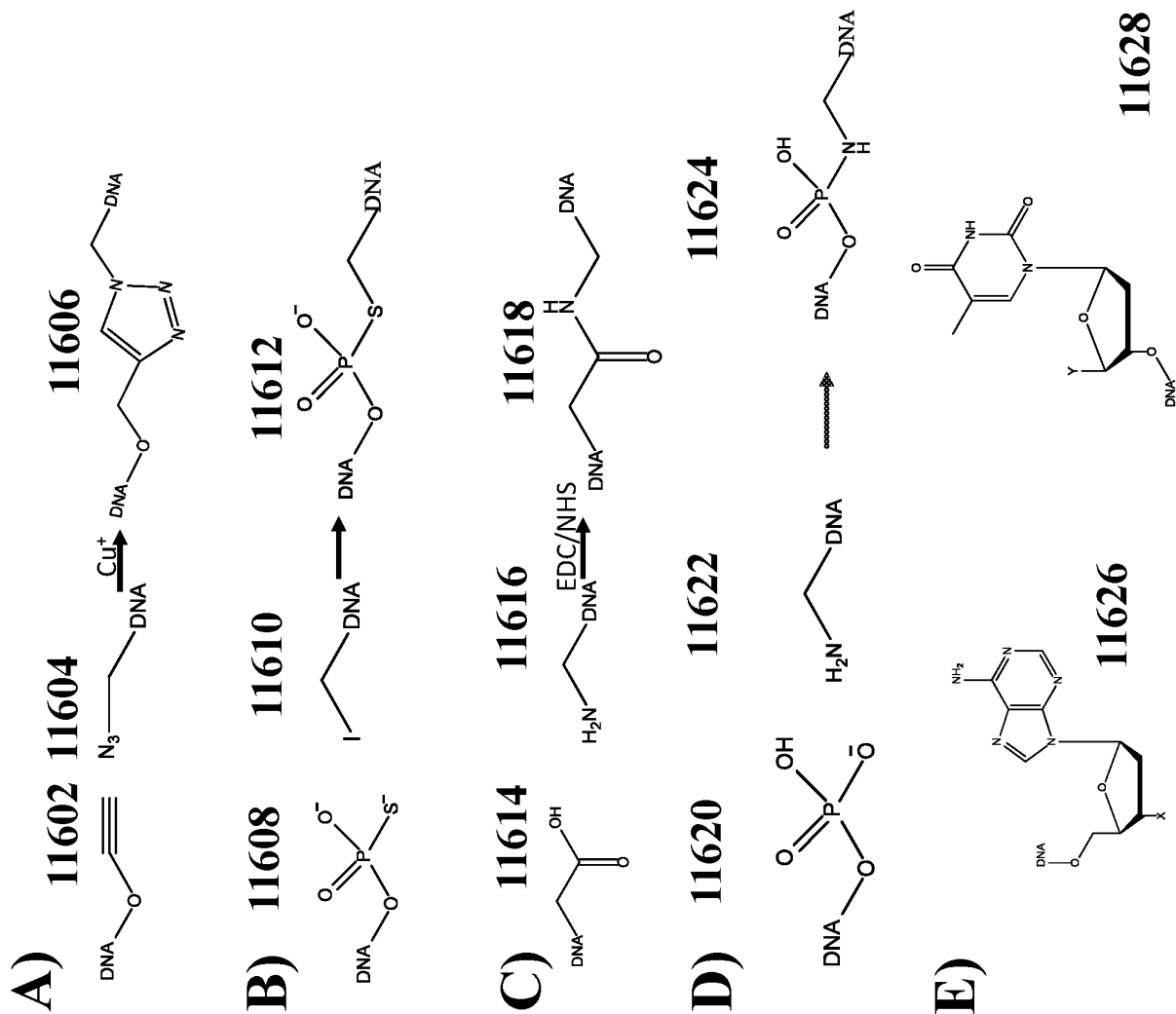


FIG. 116

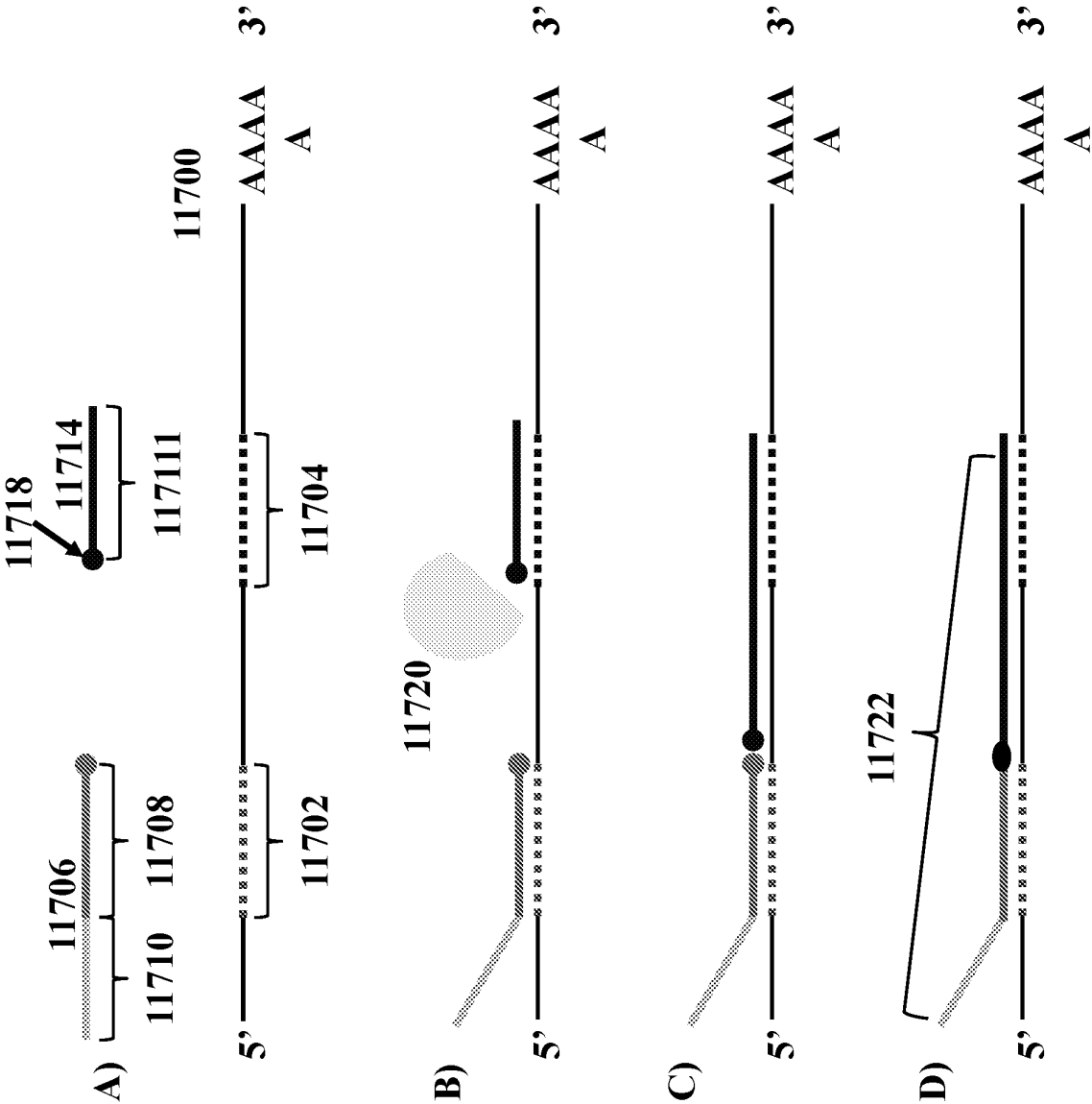


FIG. 117

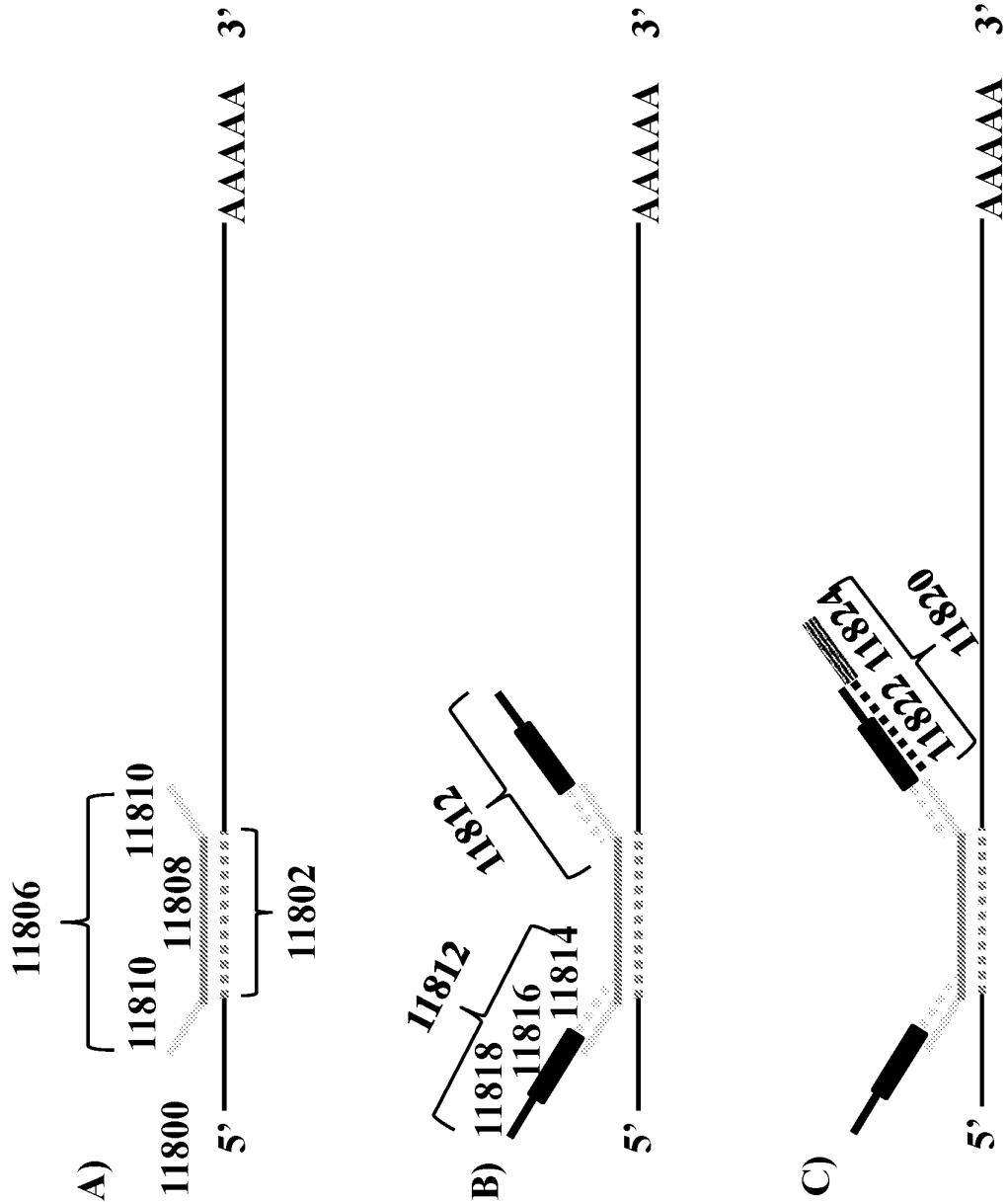
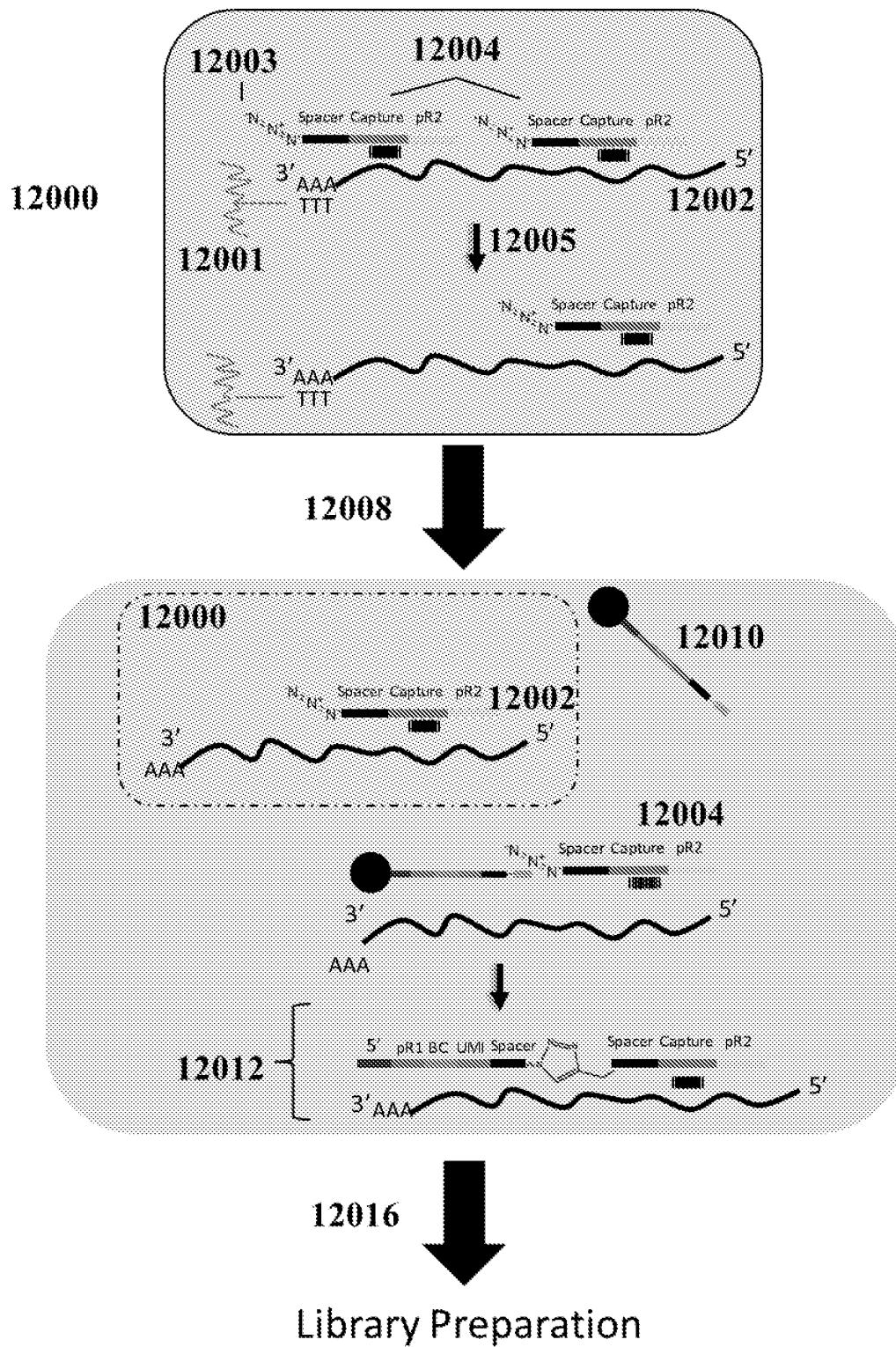


FIG. 118



**FIG. 120**

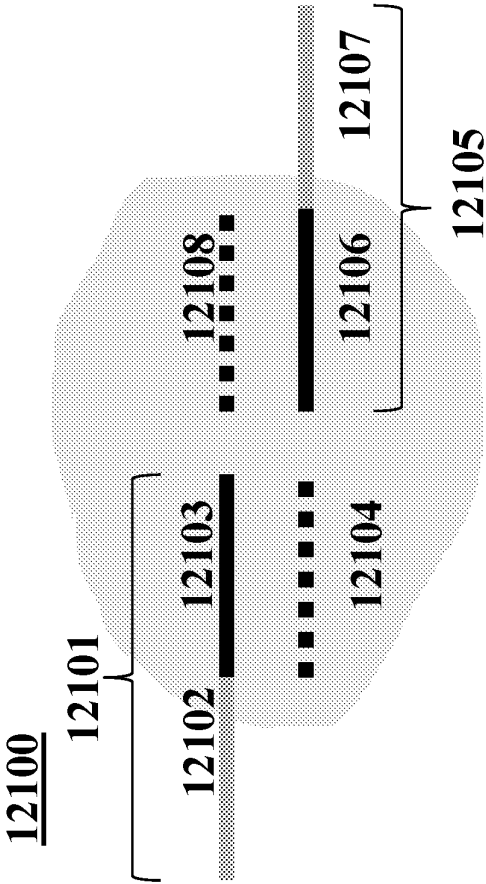


FIG. 121

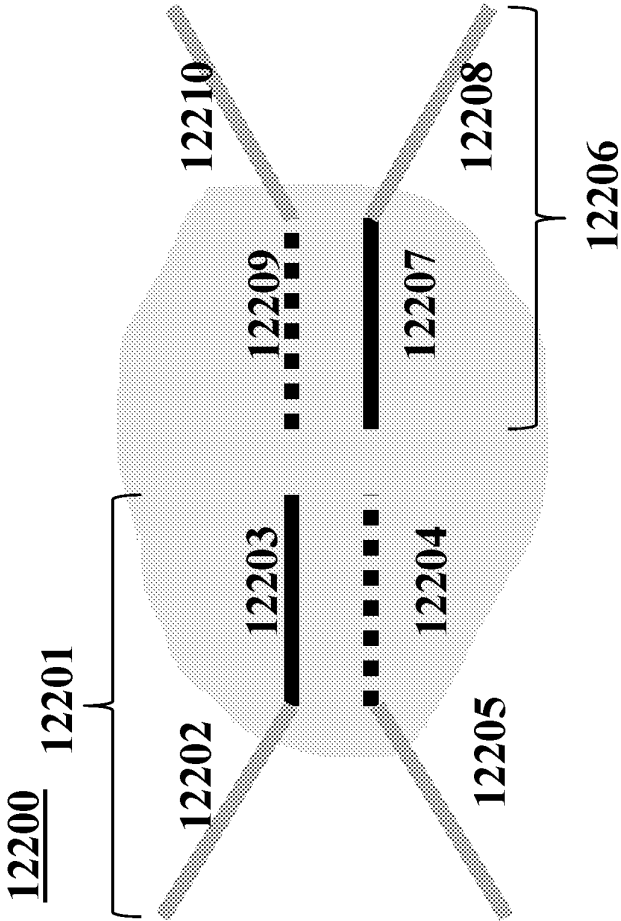


FIG. 122

12300

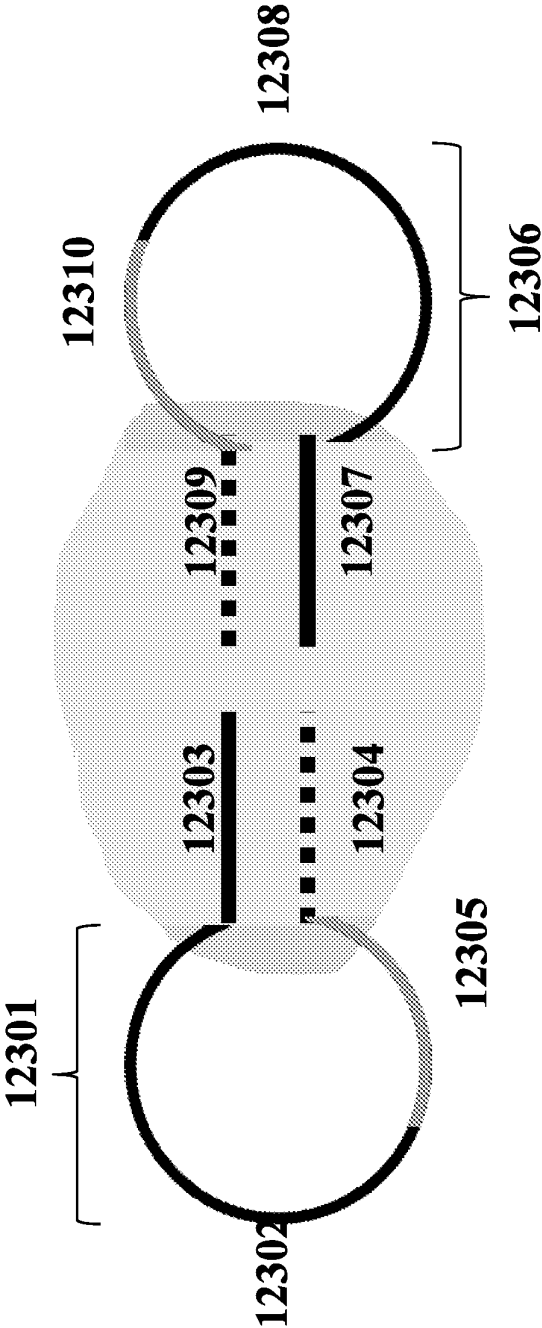


FIG. 123

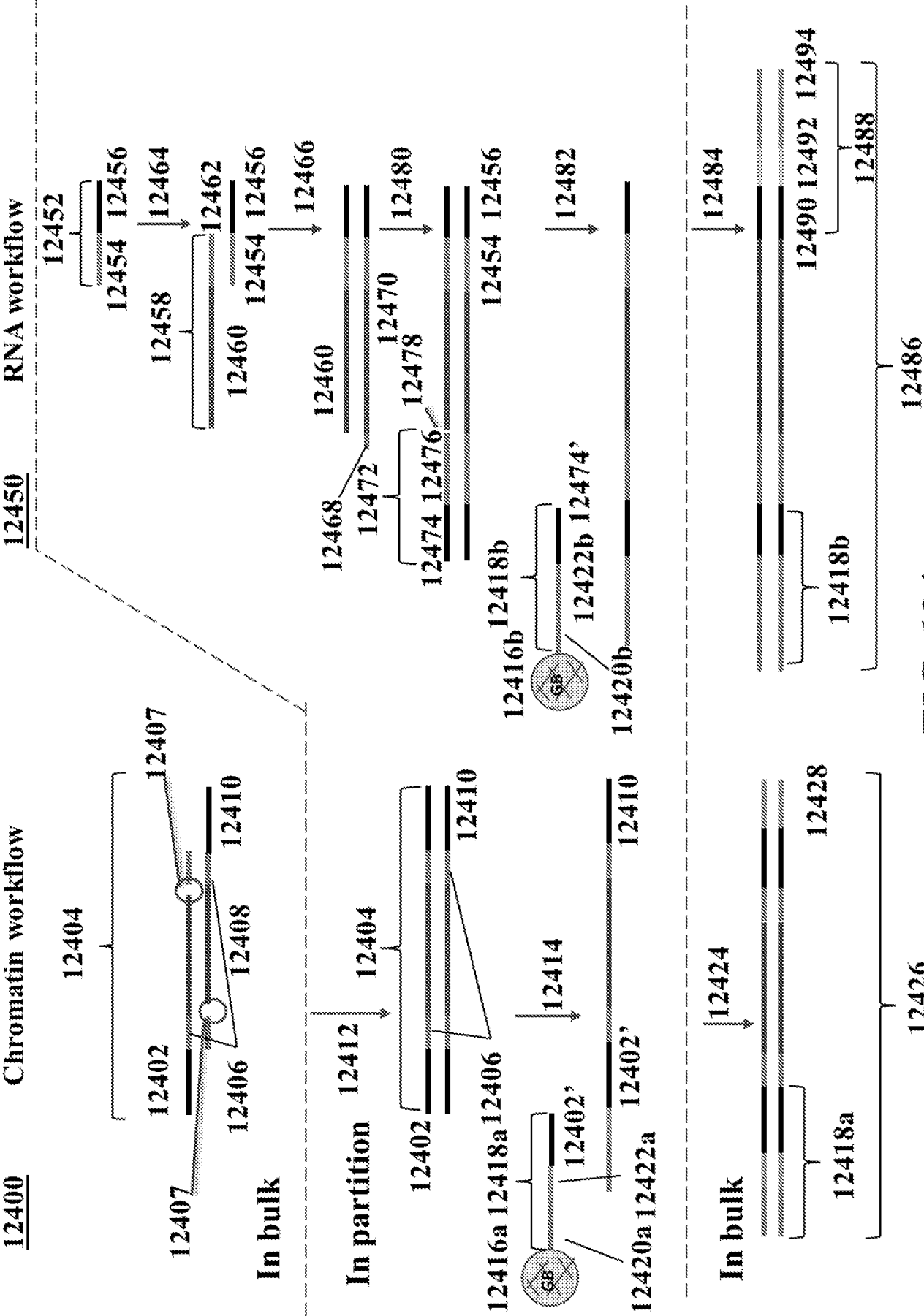
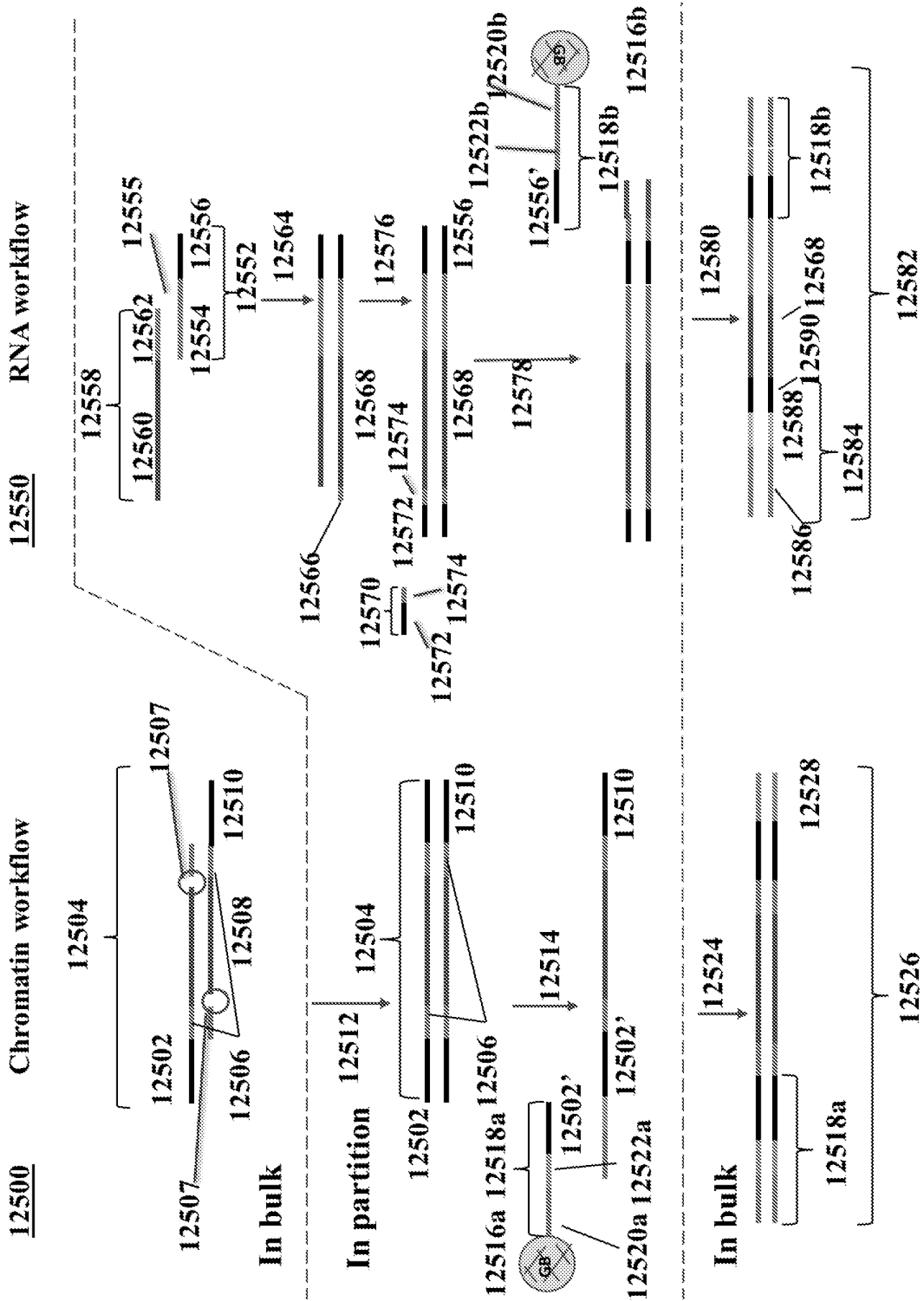


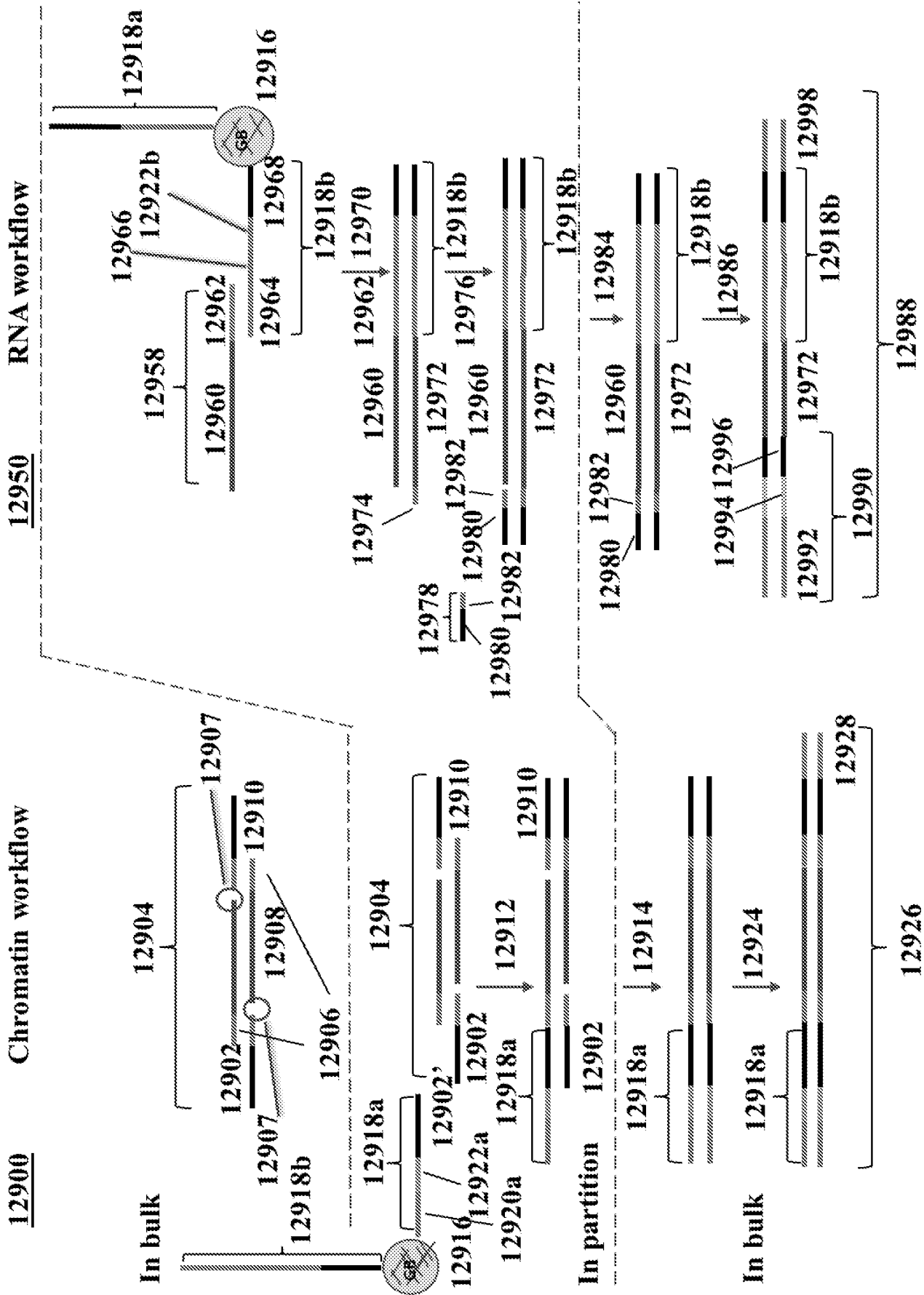
FIG. 124

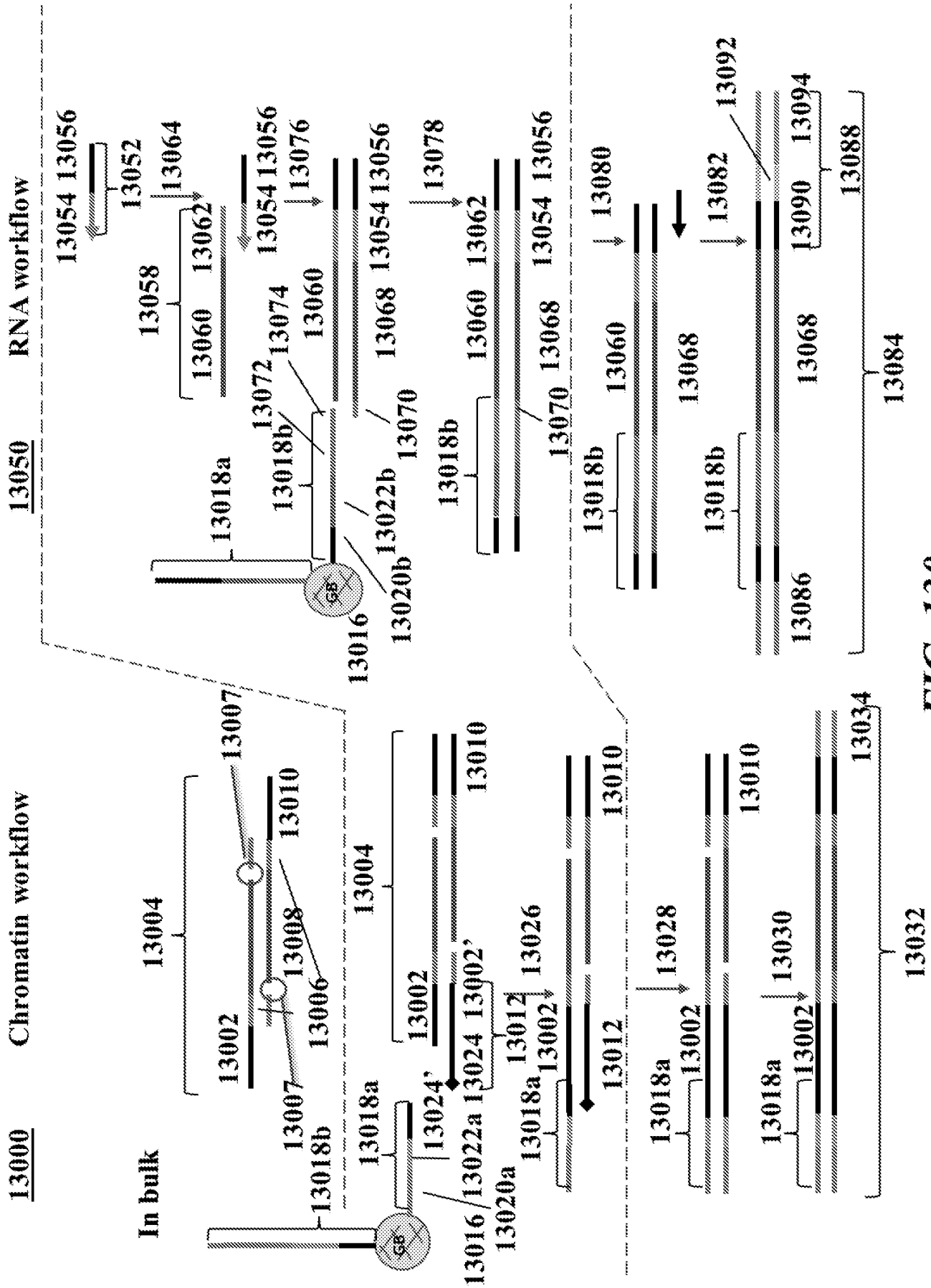
**FIG. 125**







**FIG. 129**

**FIG. 130**



13300

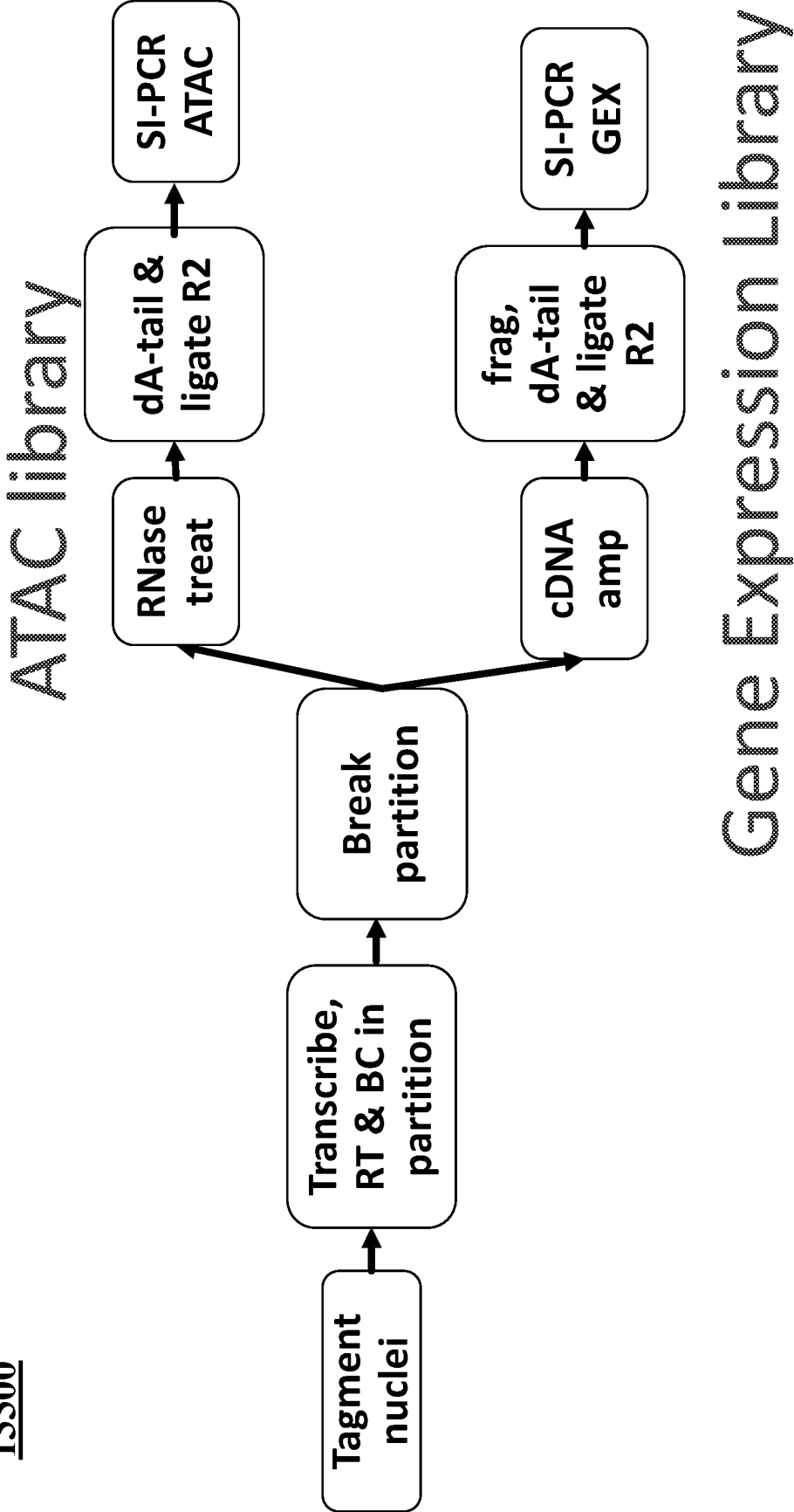


FIG. 133





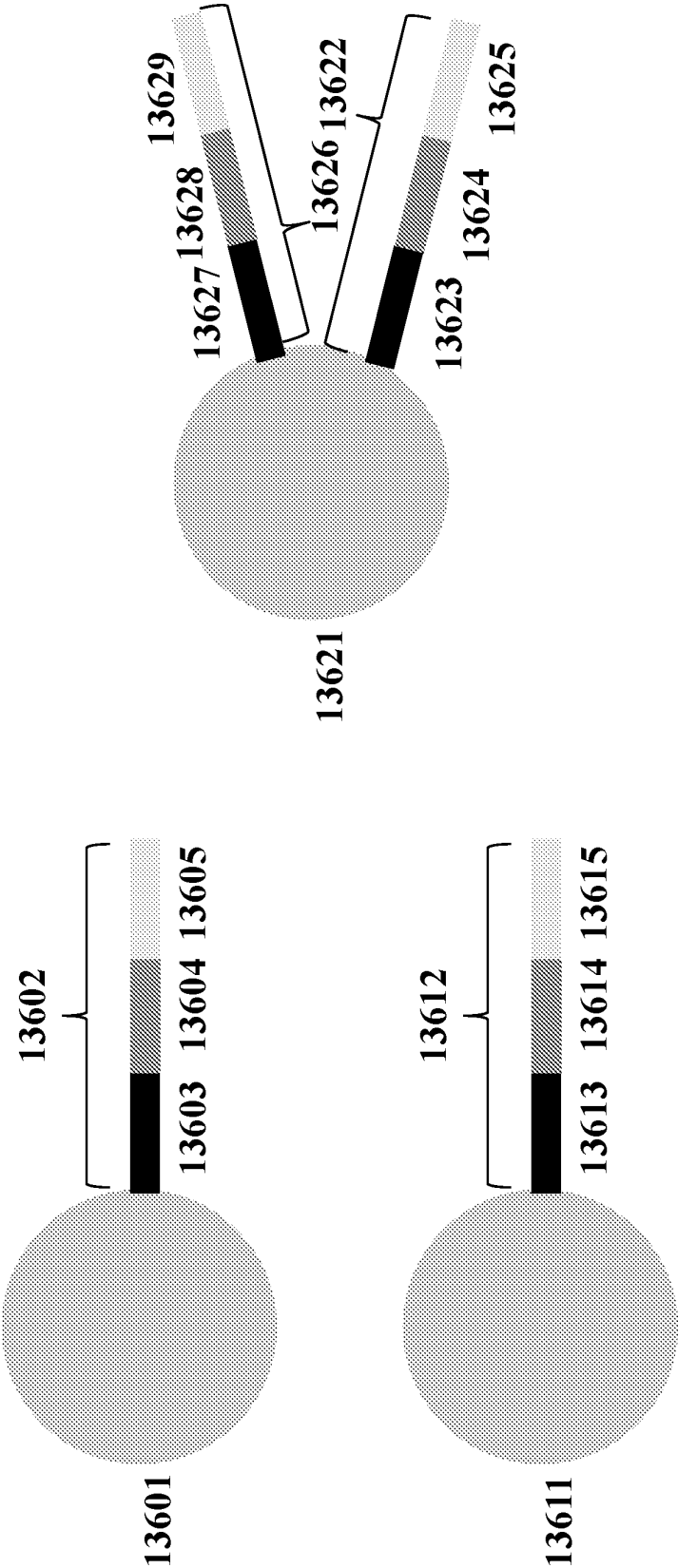


FIG. 136A

FIG. 136B

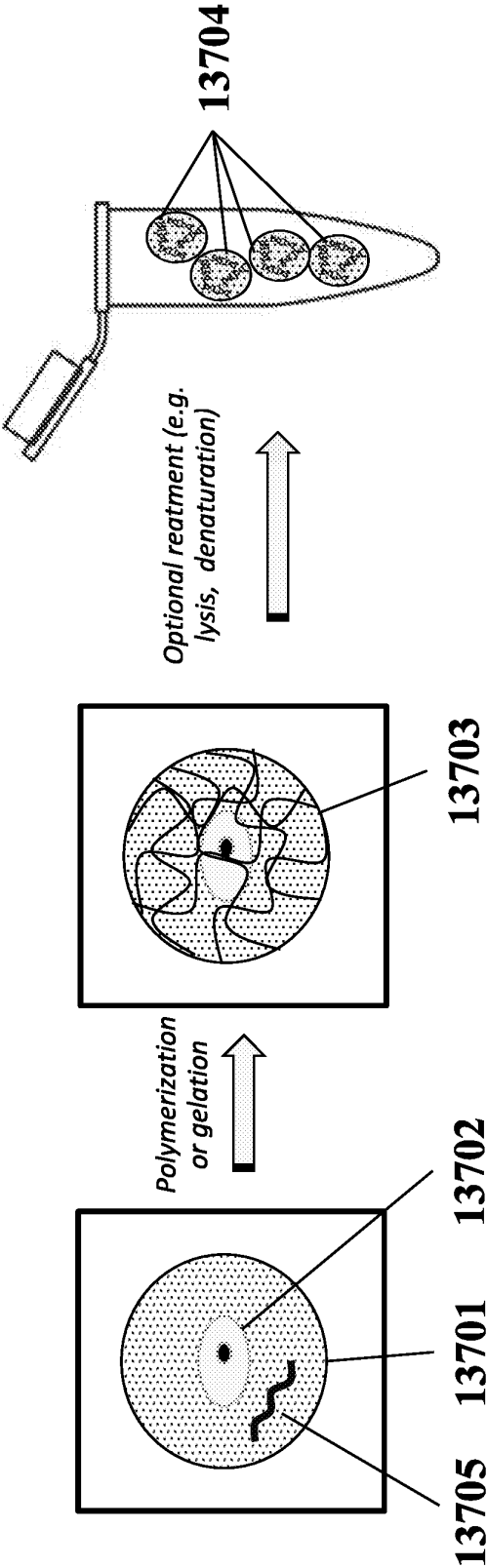


FIG. 137

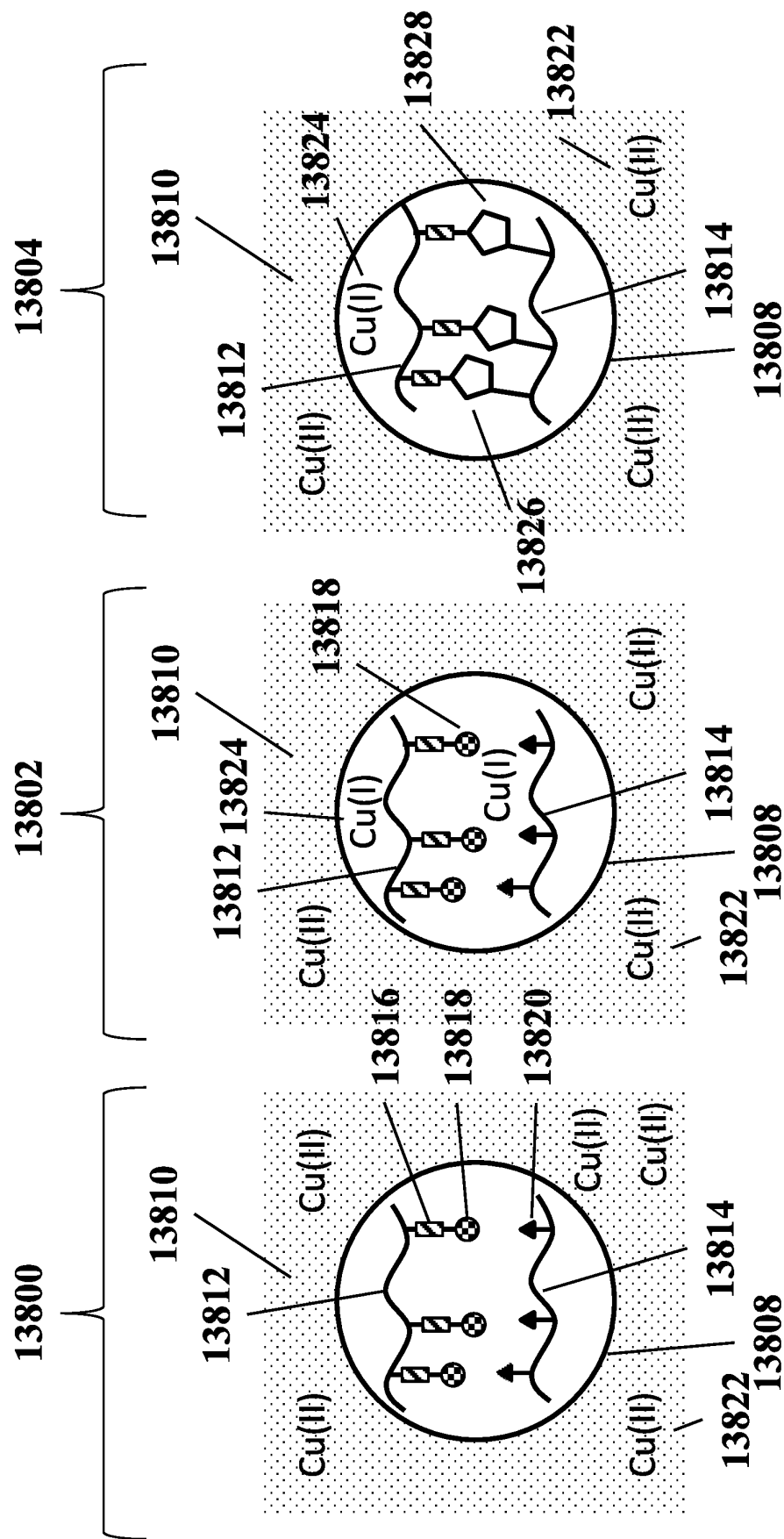


FIG. 138

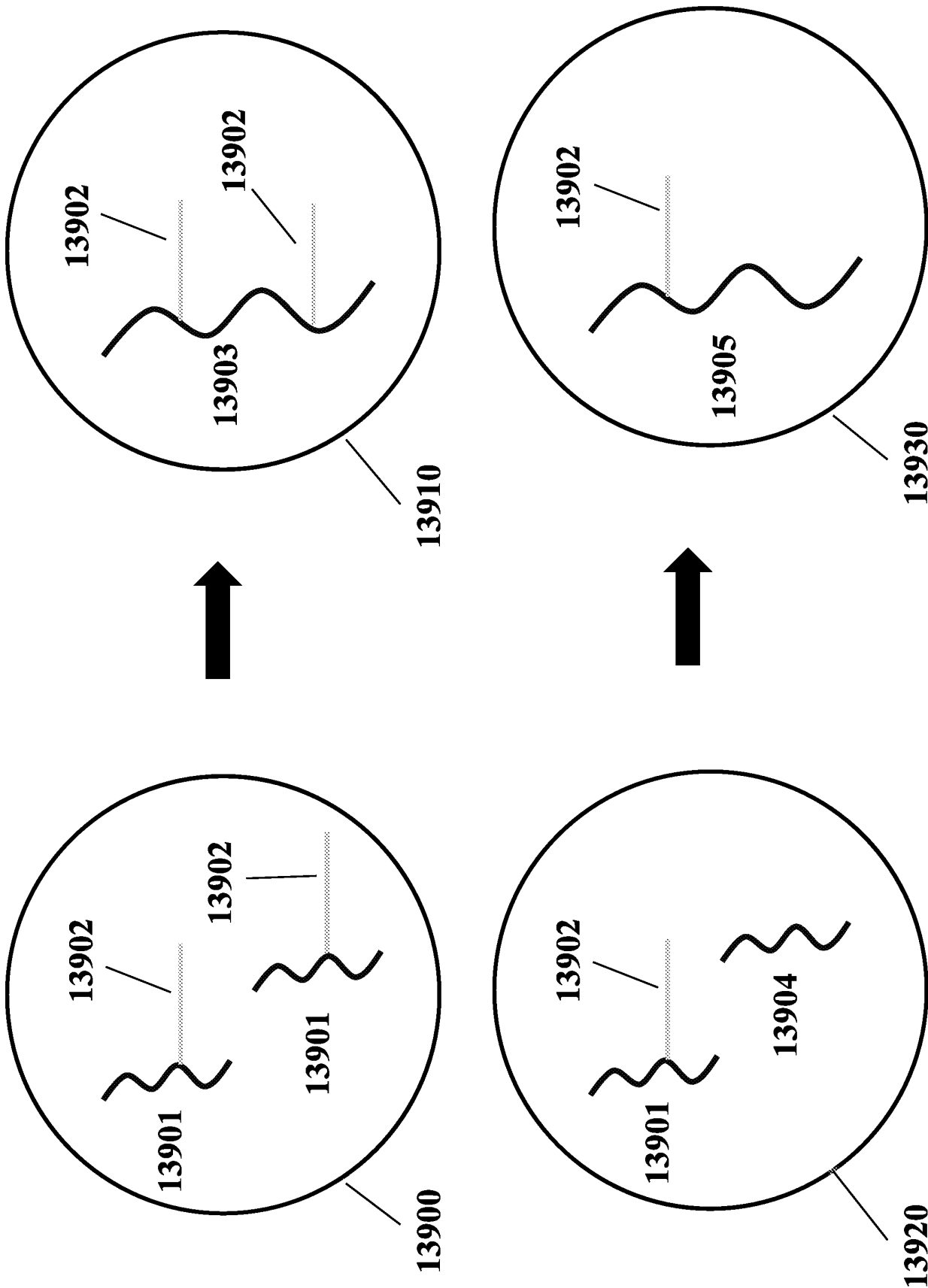


FIG.139A

