

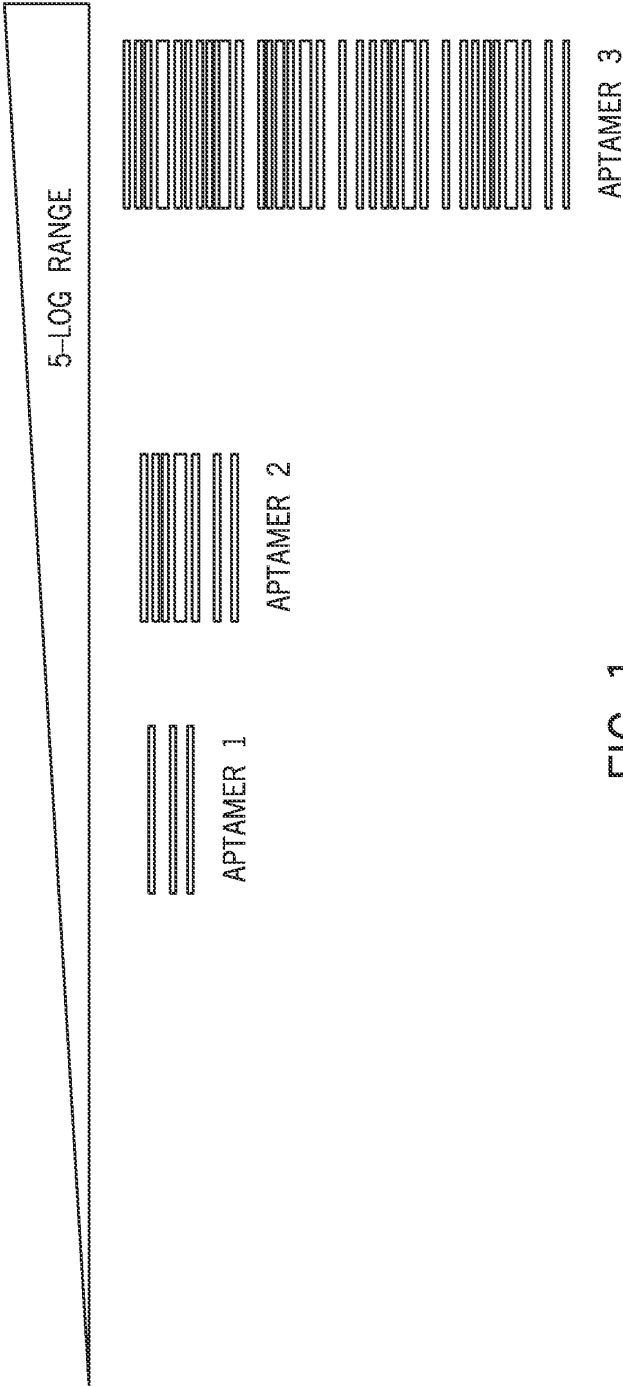


FIG. 1

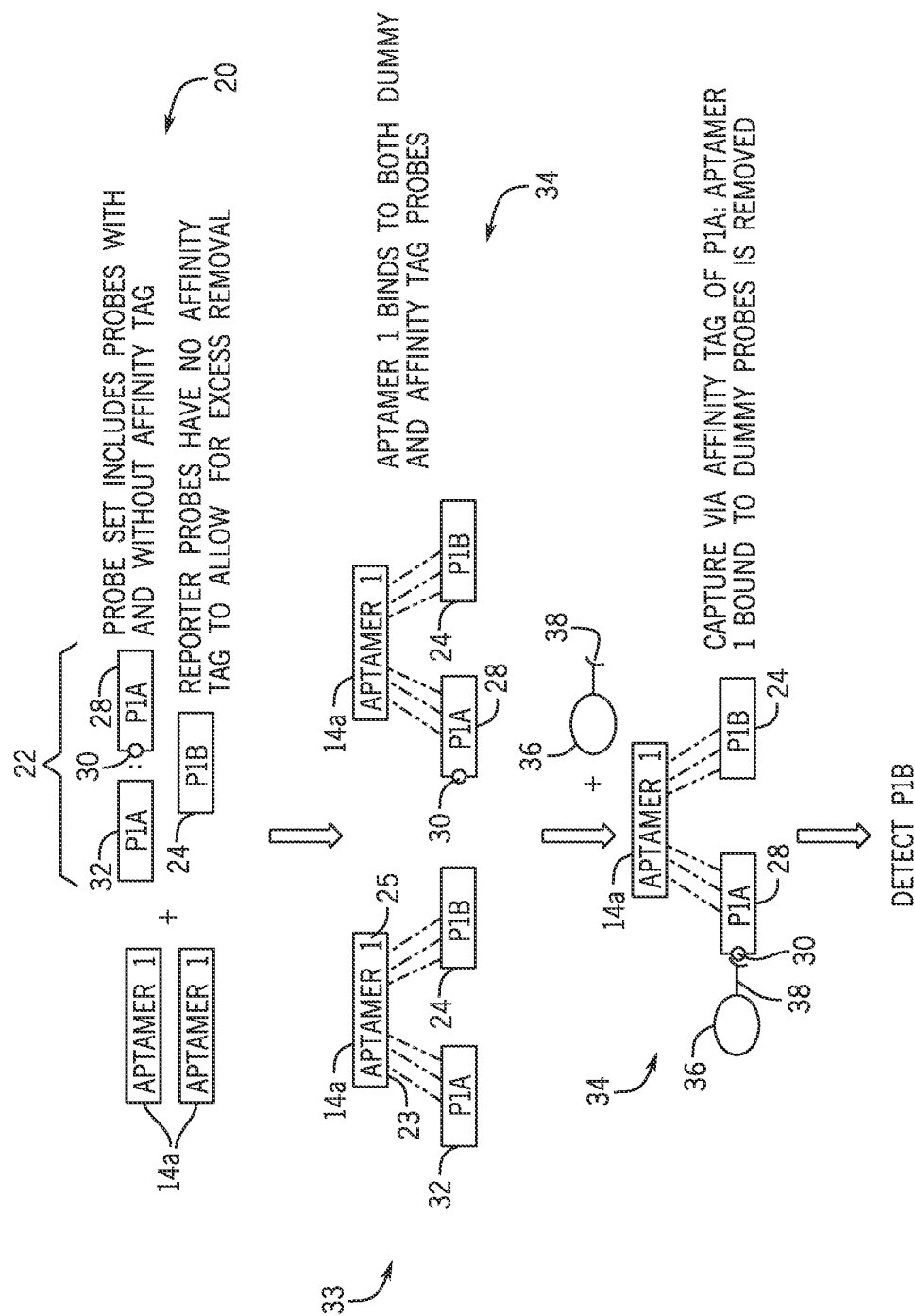


FIG. 2

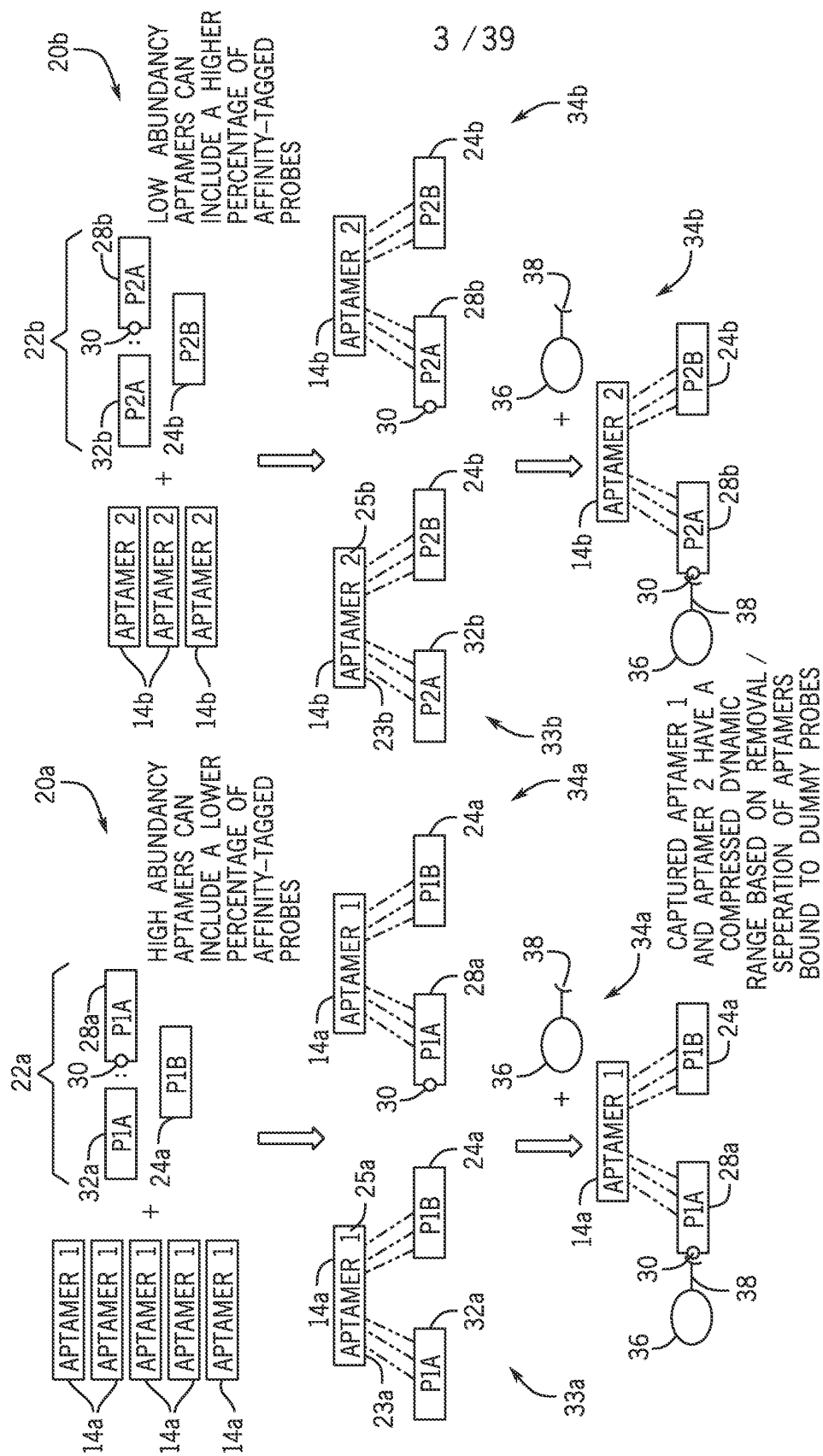
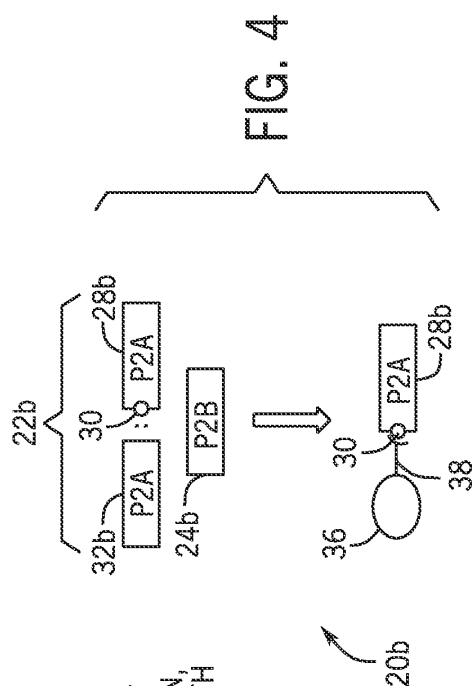
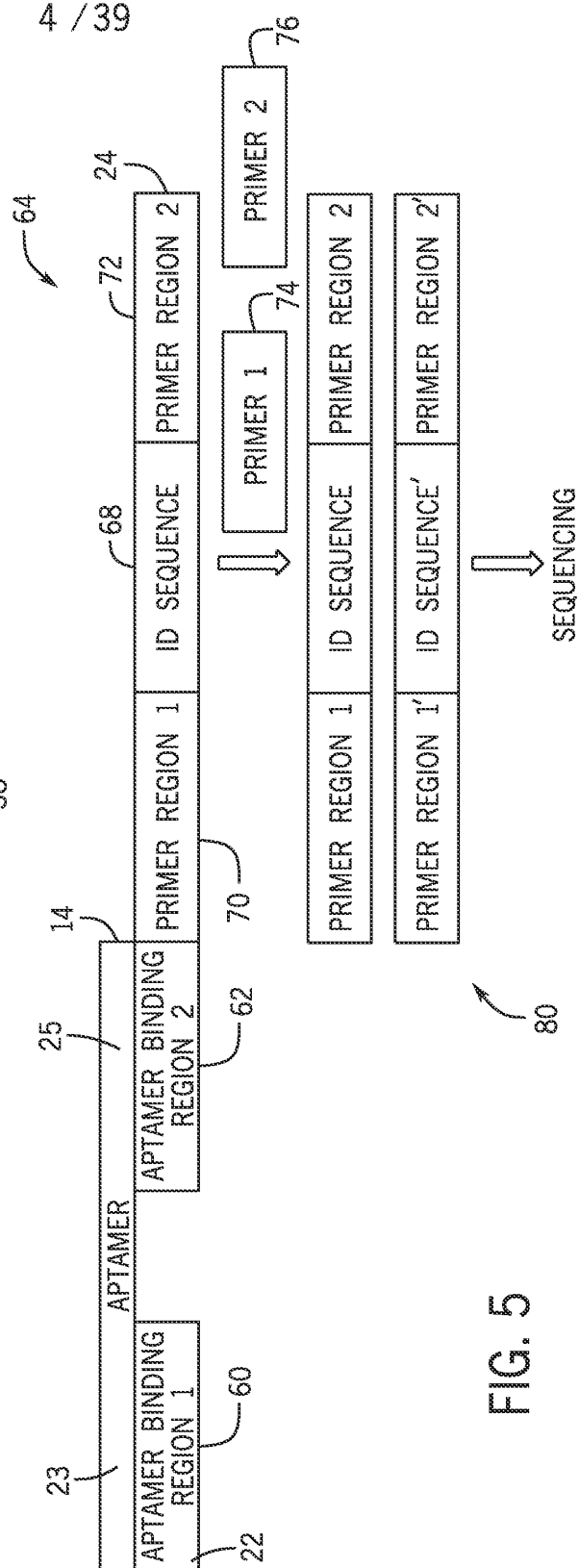


FIG. 3



WHEN APTAMER 2 IS NOT PRESENT
BASED ON THE SAMPLE COMPOSITION,
P2B IS NOT CAPTURED TOGETHER WITH
P2A AND CANNOT BE DETECTED



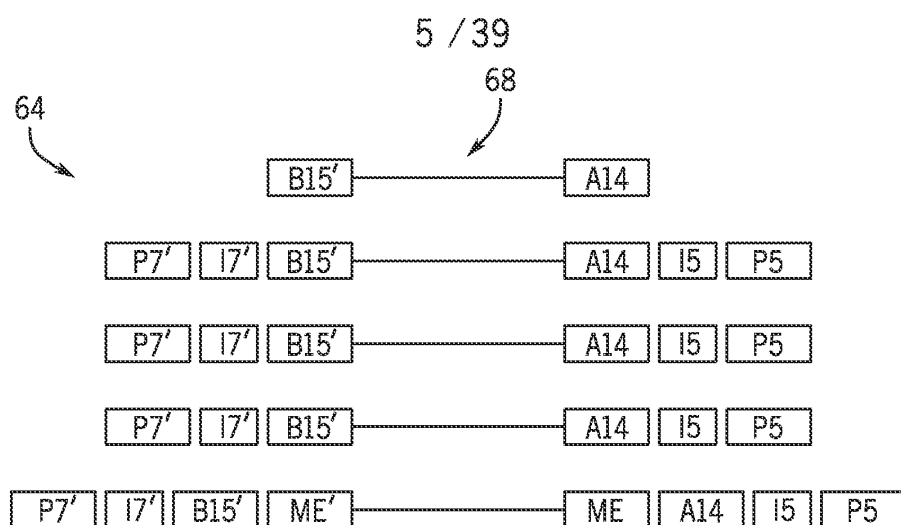


FIG. 6

DIRECT AMPLIFICATION

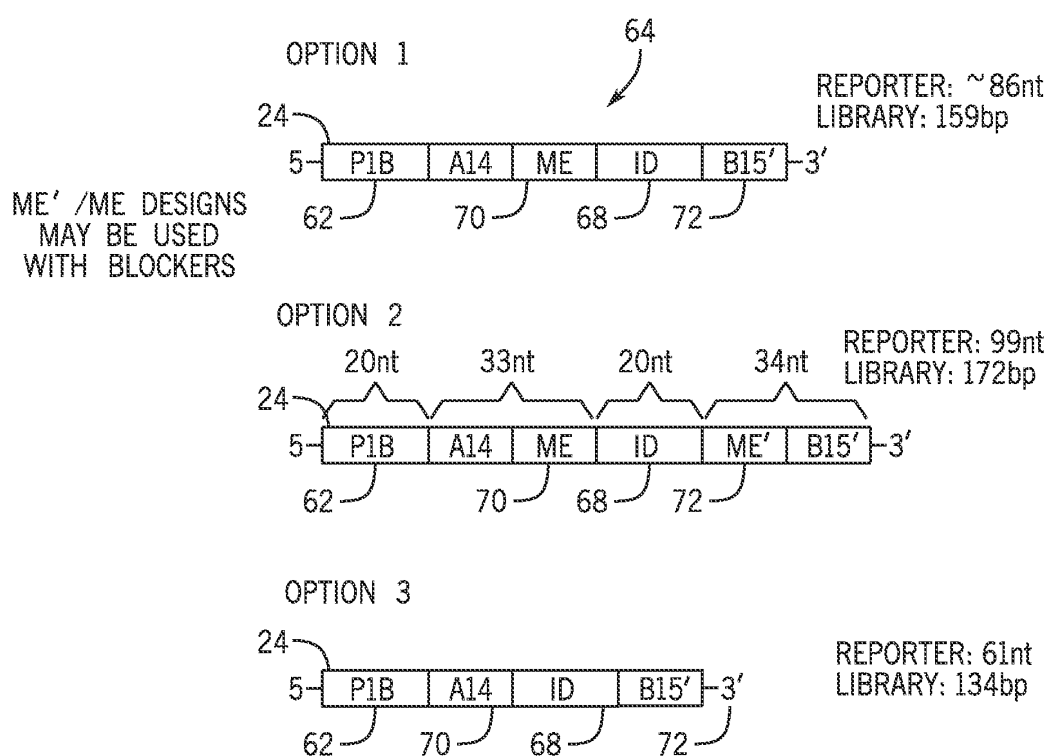
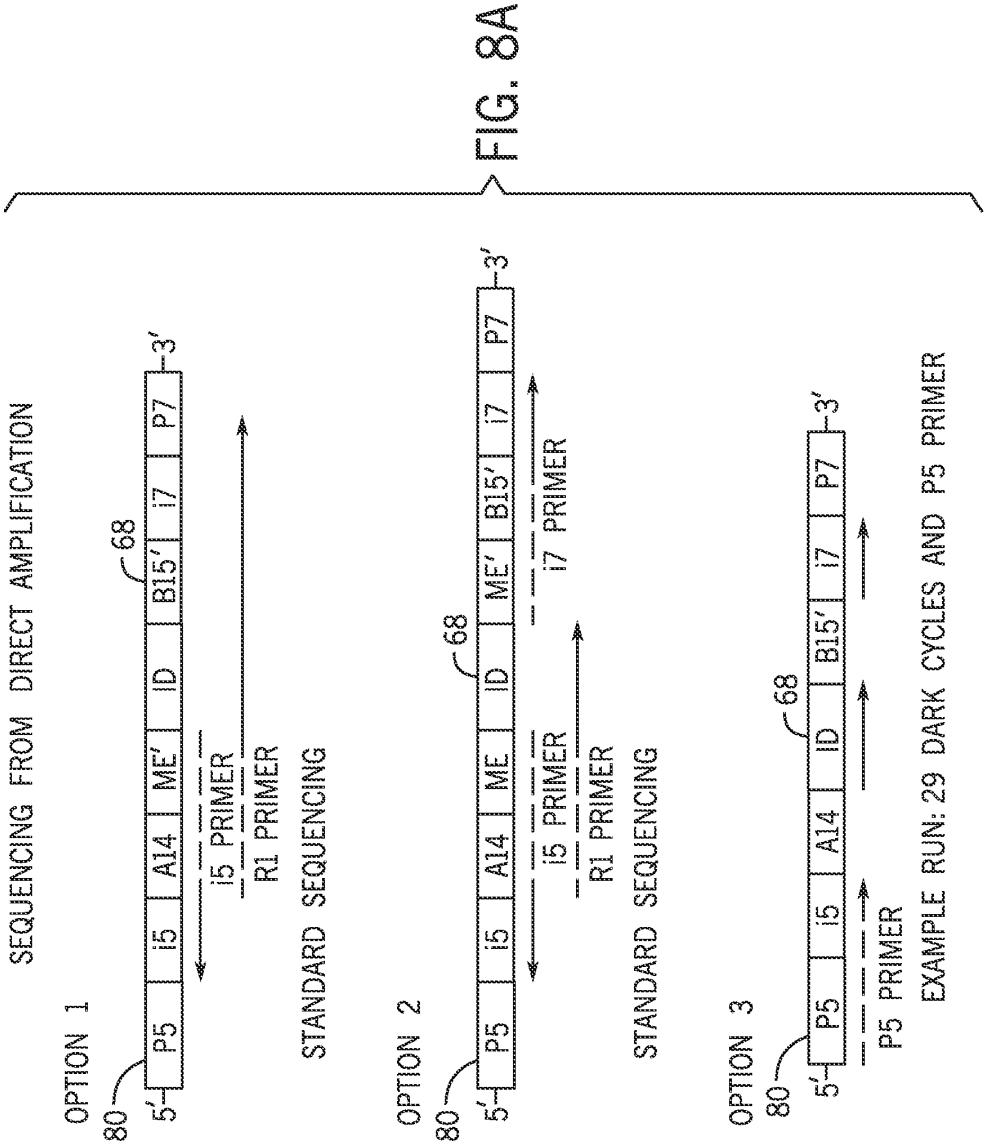


FIG. 7



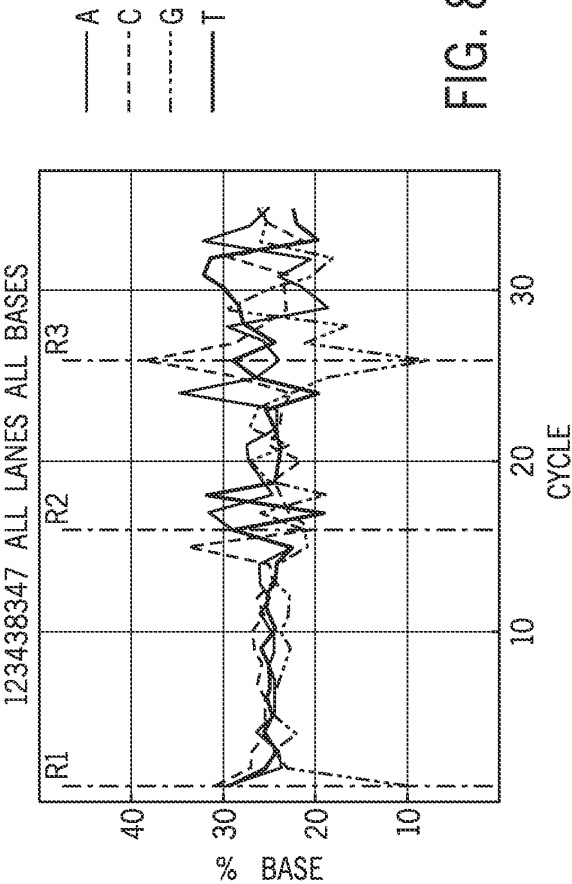
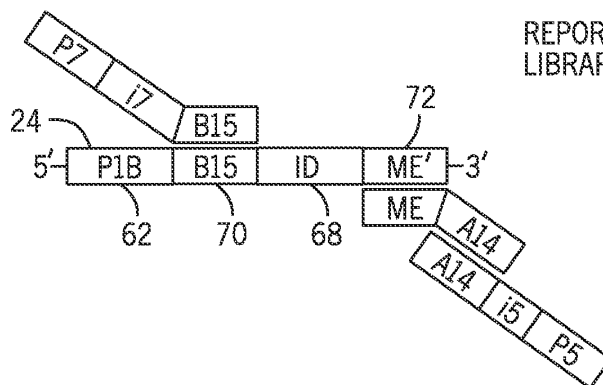


FIG. 8B

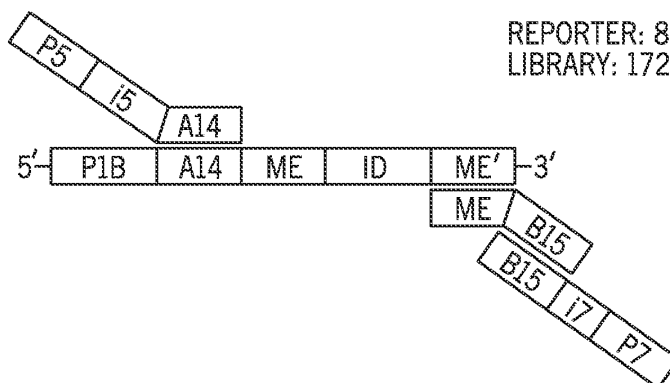
SAMPLE	%PF	YIELD(G)	ID		i7		i5	
			%Q30	CI INTENSITY	%Q30	CI INTENSITY	%Q30	CI INTENSITY
24plex 90pM	63.45 ± 1.95	17.14	93.27	129 ± 43	90.54	124 ± 6	91.49	179 ± 7
24plex 100pM	64.13 ± 2.26	17.41	93.18	164 ± 25	90.36	134 ± 9	91.54	187 ± 8
192plex 90pM	62.26 ± 2.68	16.94	92.93	180 ± 13	88.54	136 ± 9	90.1	189 ± 9

FIG. 8C

REPORTER: 66nt
LIBRARY: 153bp



REPORTER: 84nt
LIBRARY: 172bp



REPORTER: 65nt
LIBRARY: 1205bp

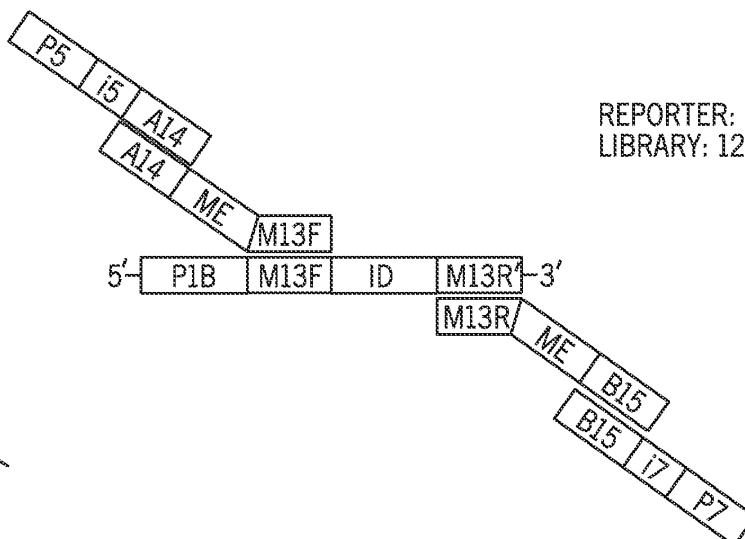


FIG. 9A

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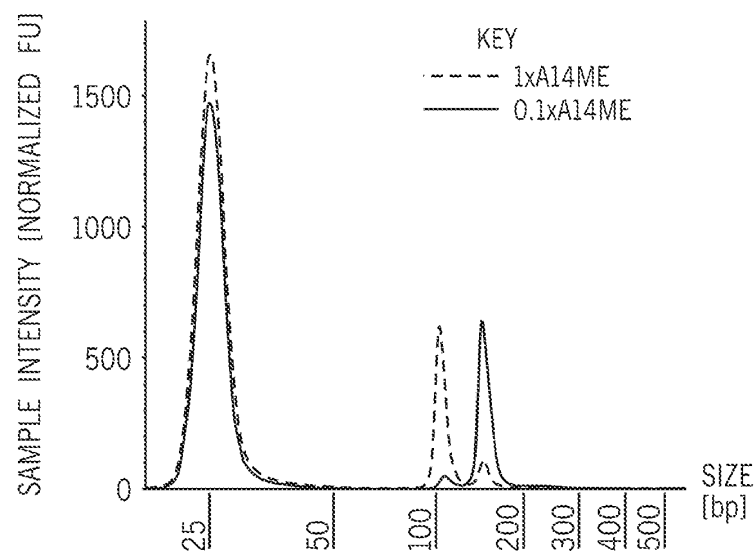


FIG. 9B

RESULTS: TAPESTATION

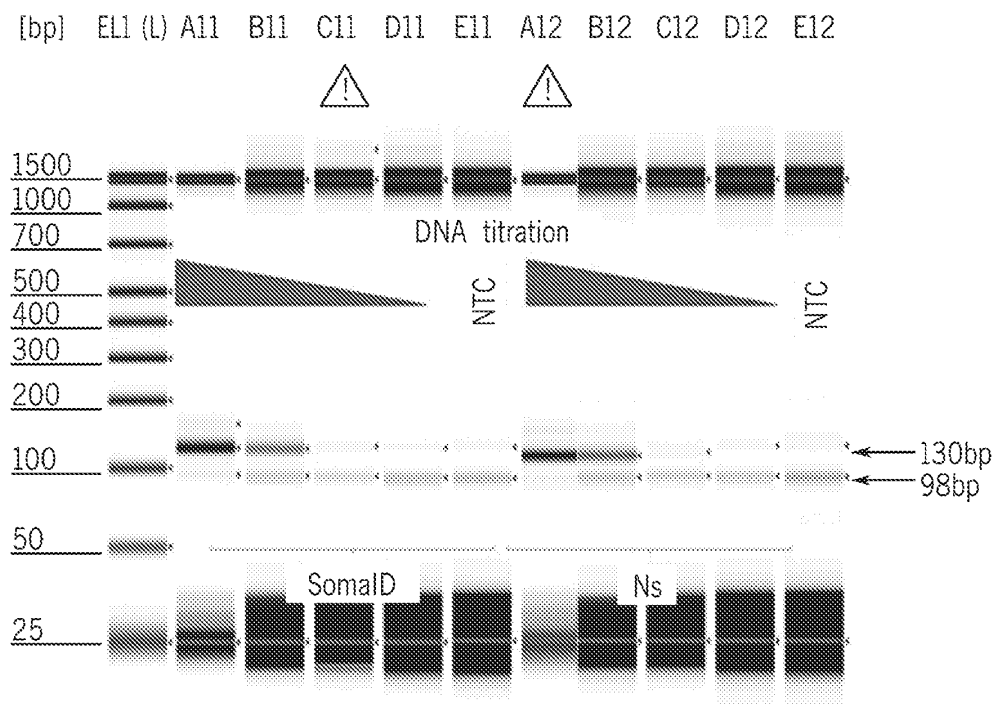


FIG. 9C

SEQUENCING FROM STEP OUR PCR

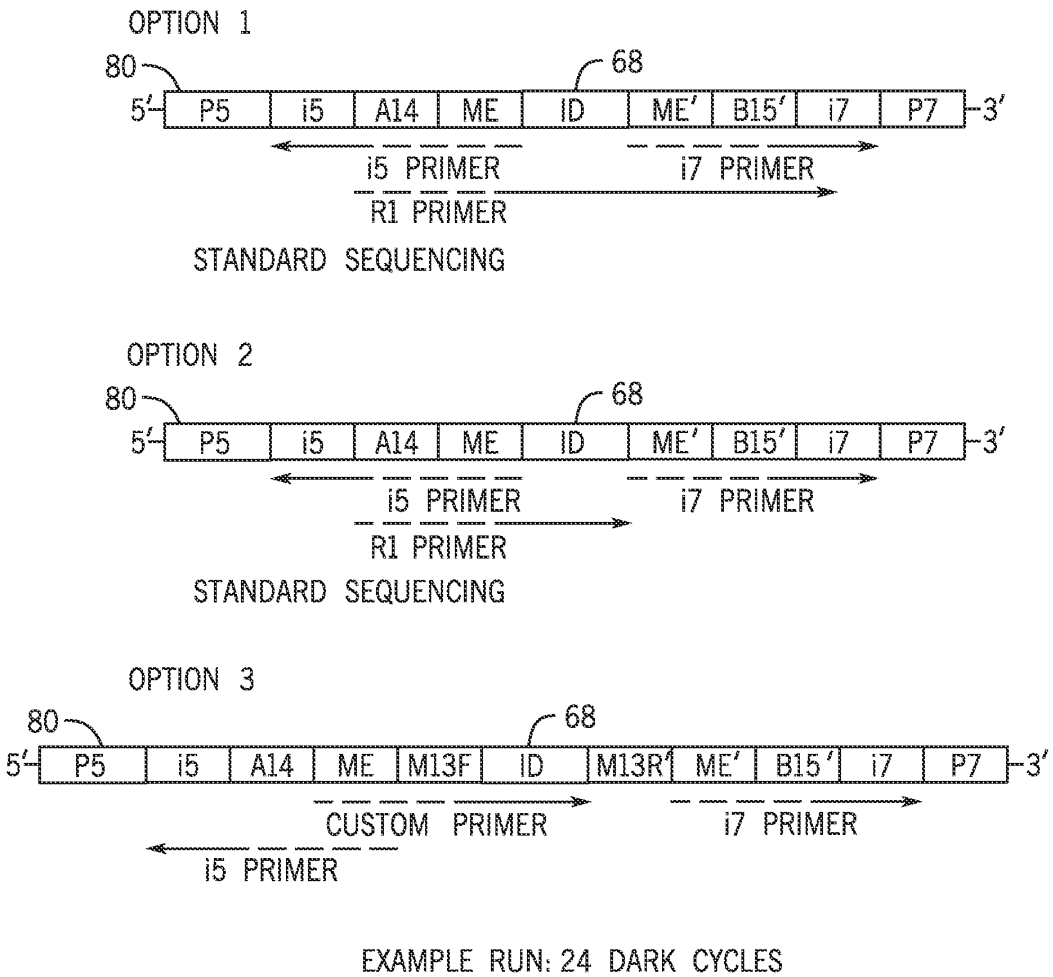


FIG. 10

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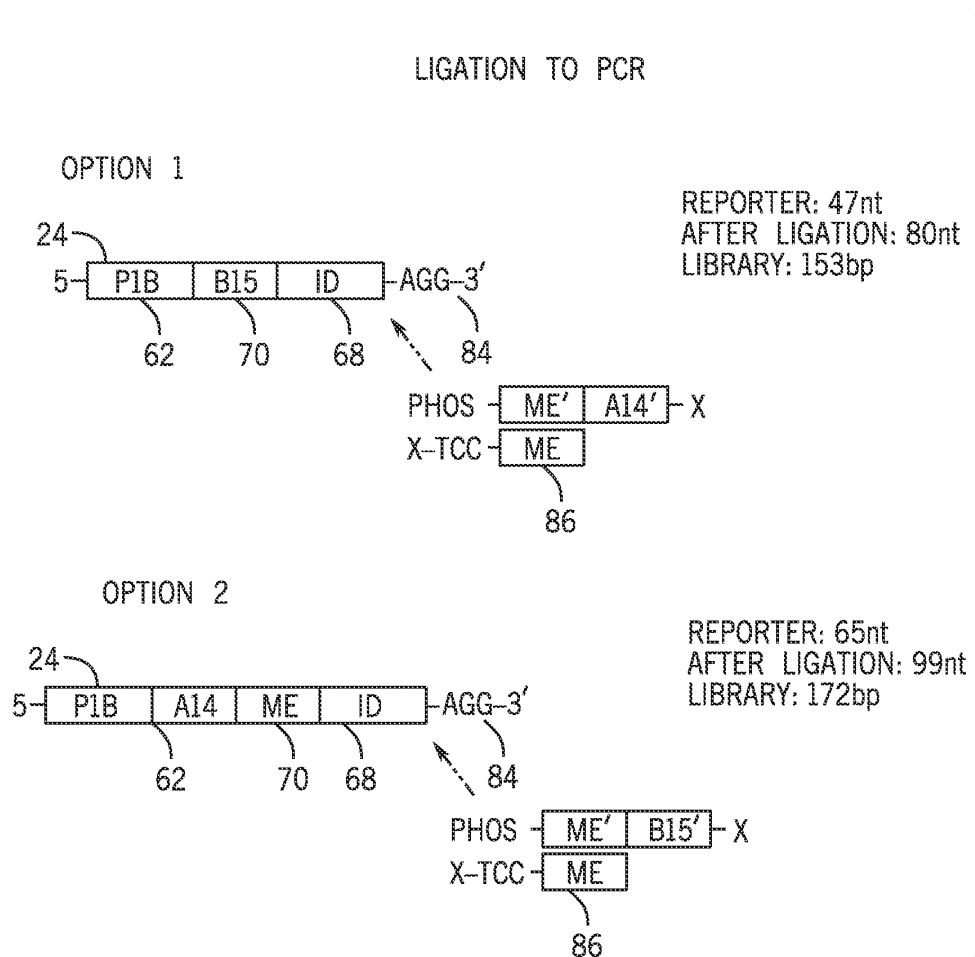


FIG. 11

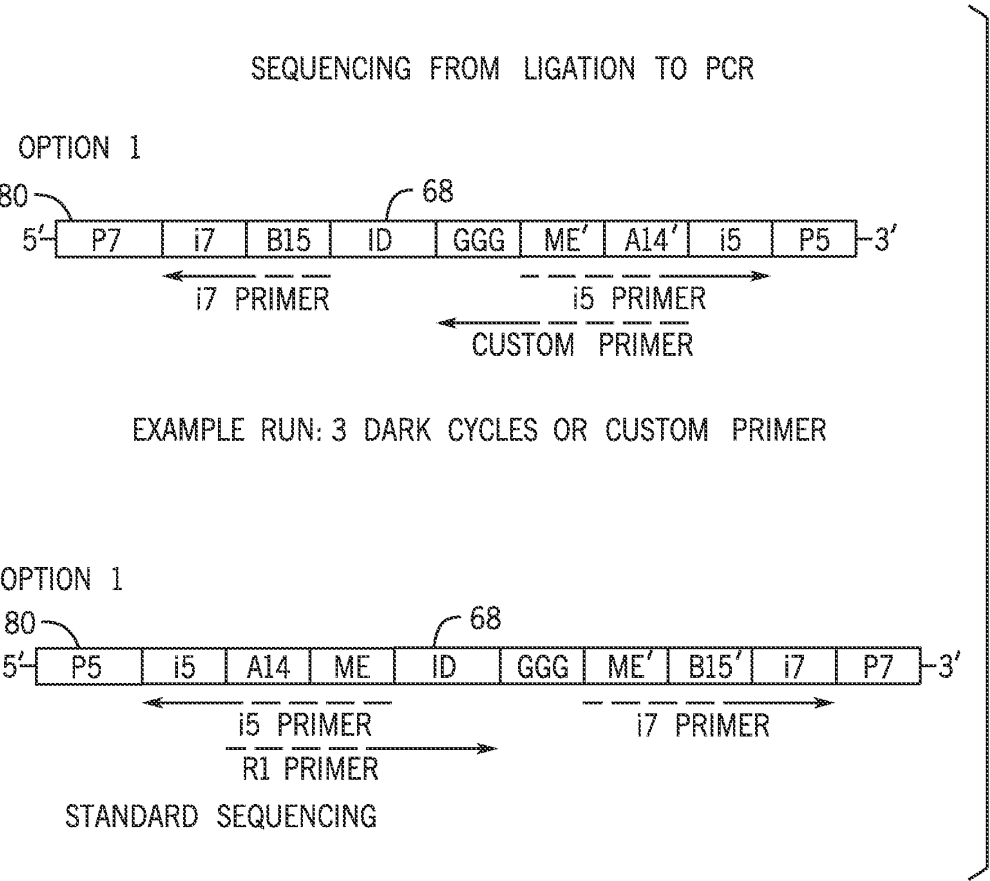
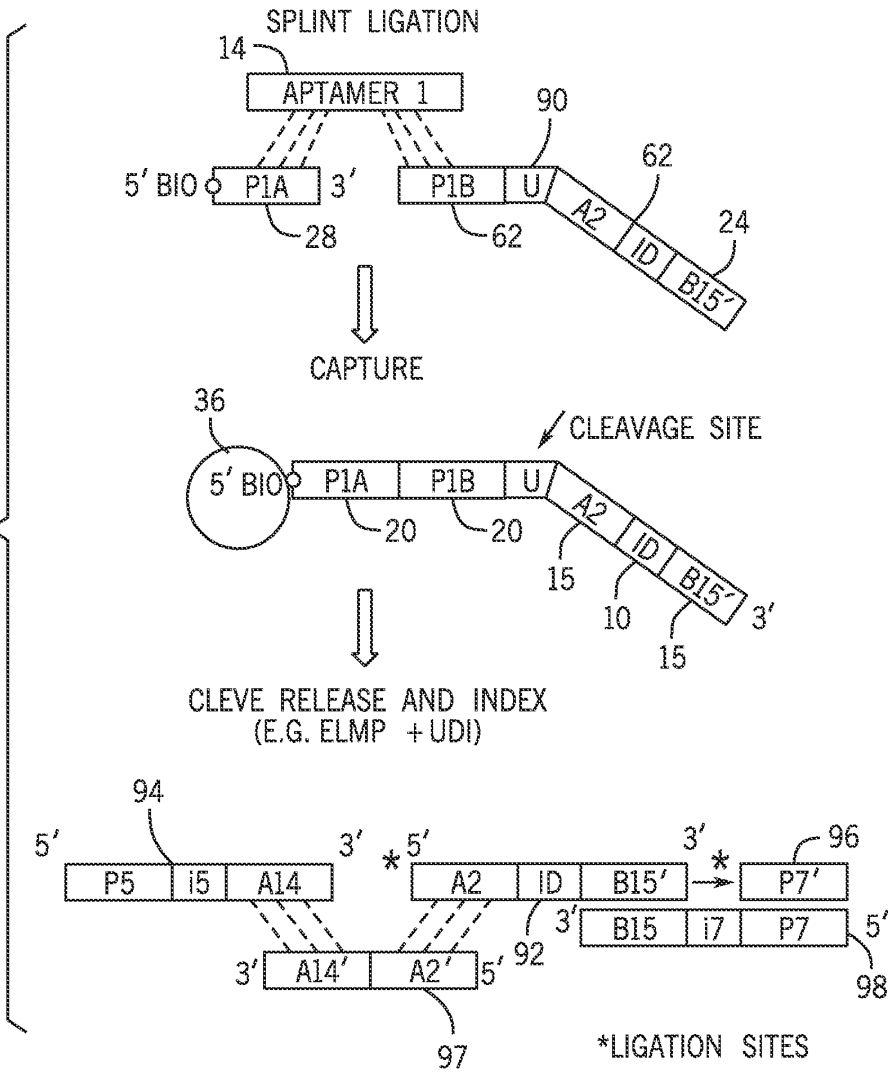


FIG. 12

FIG. 13



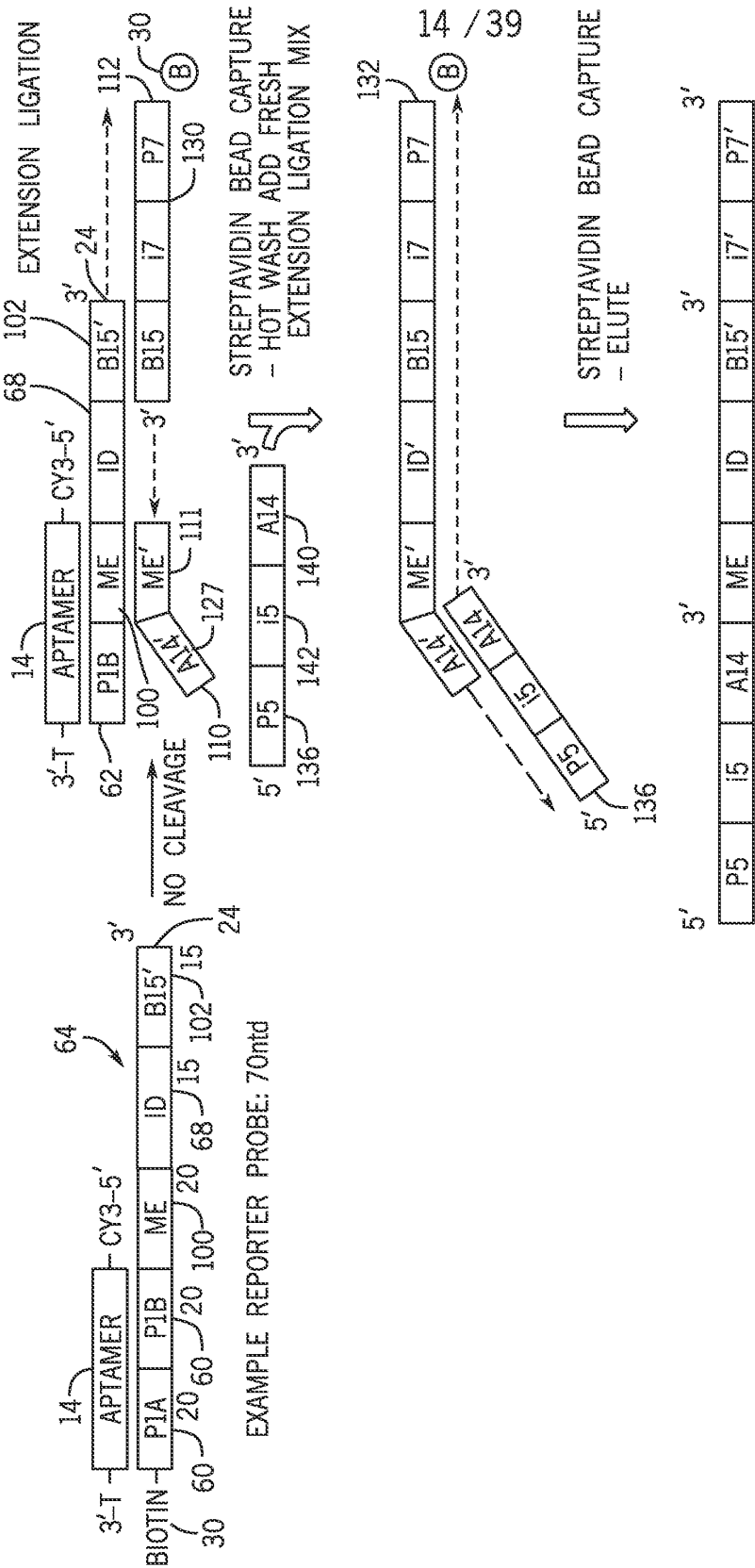


FIG. 14A

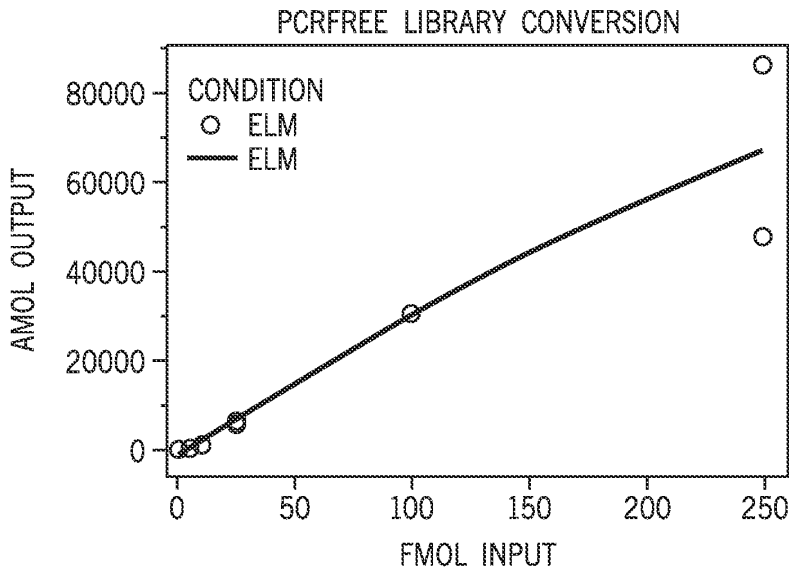


FIG. 14B

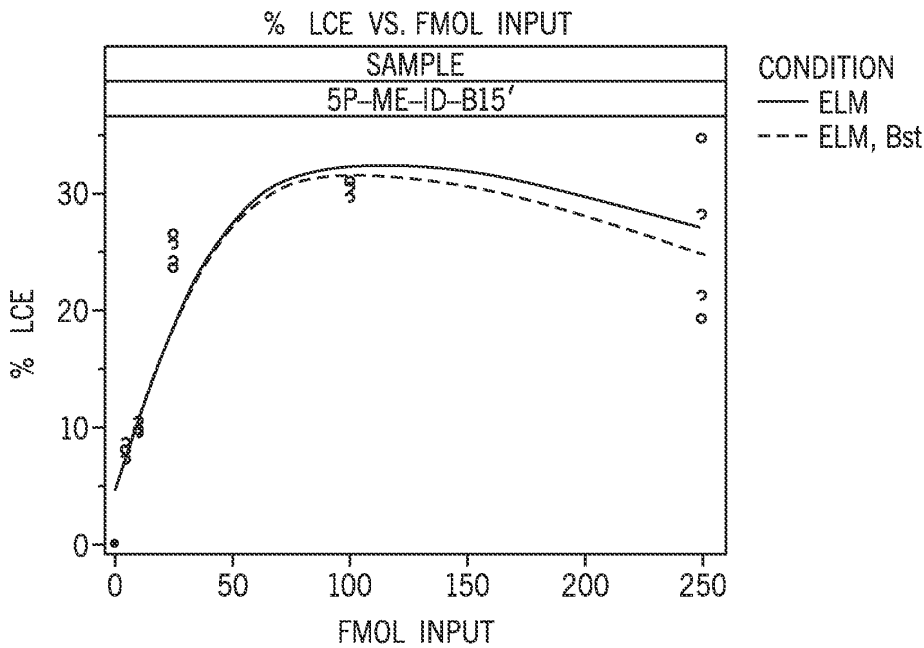
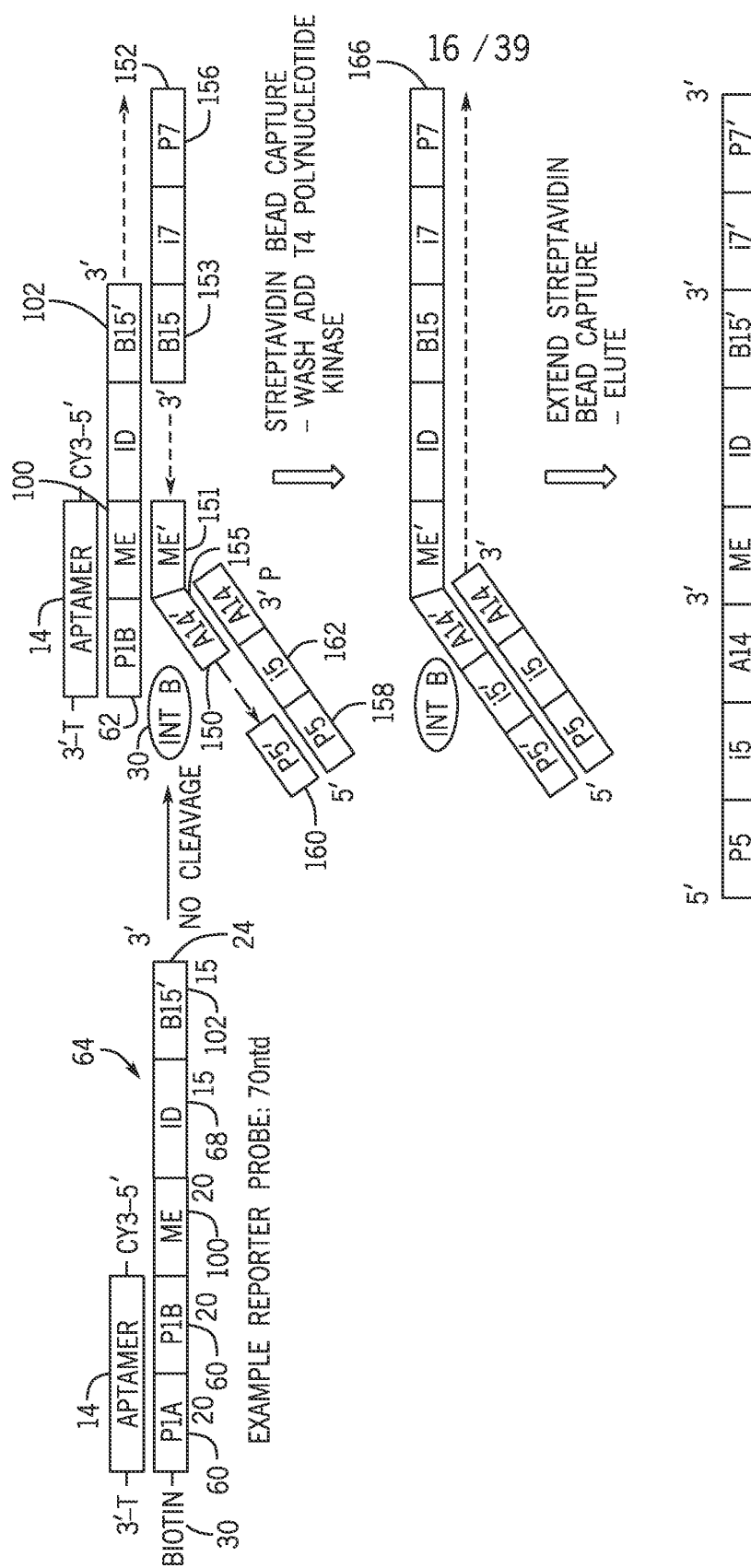


FIG. 14C



5

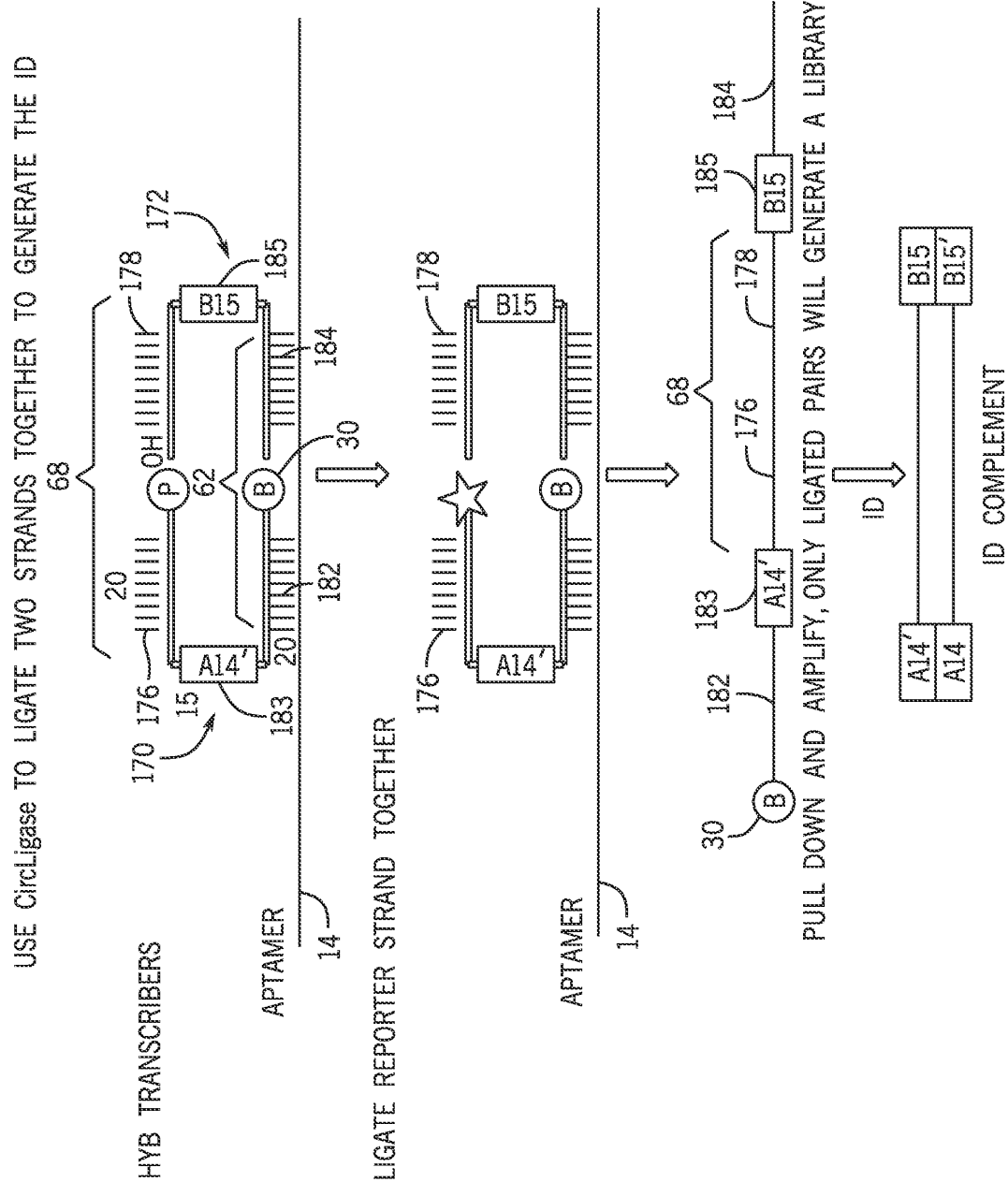


FIG. 16

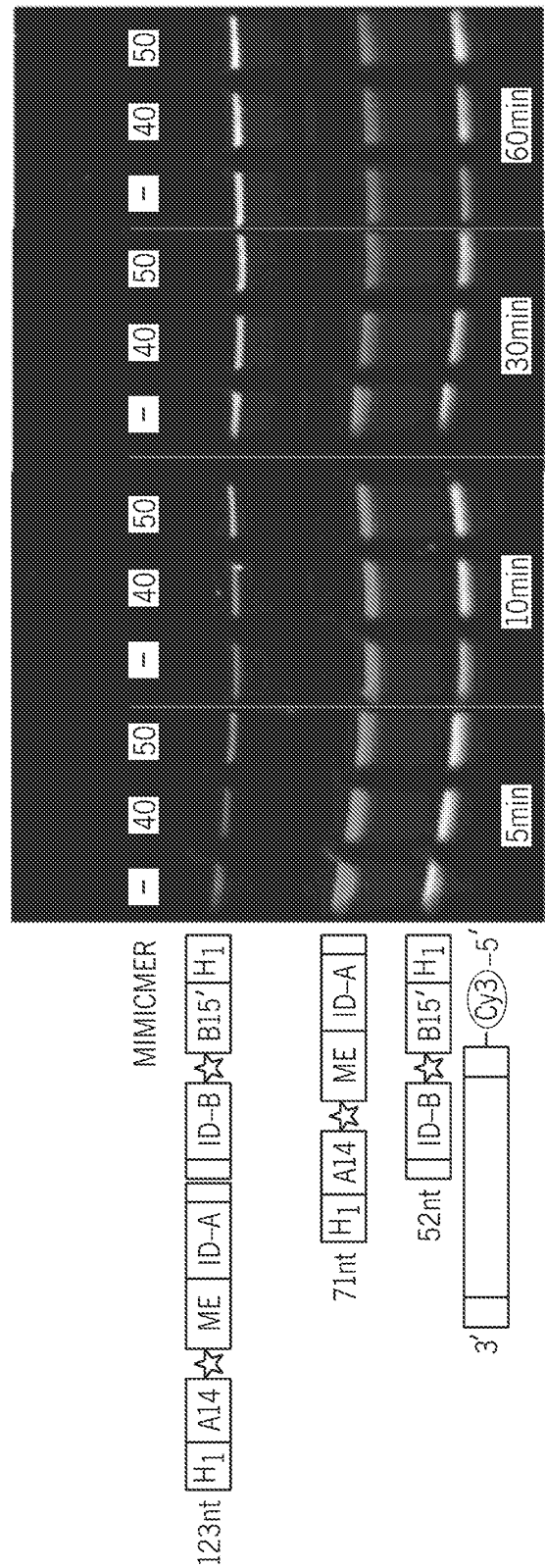


FIG. 17C

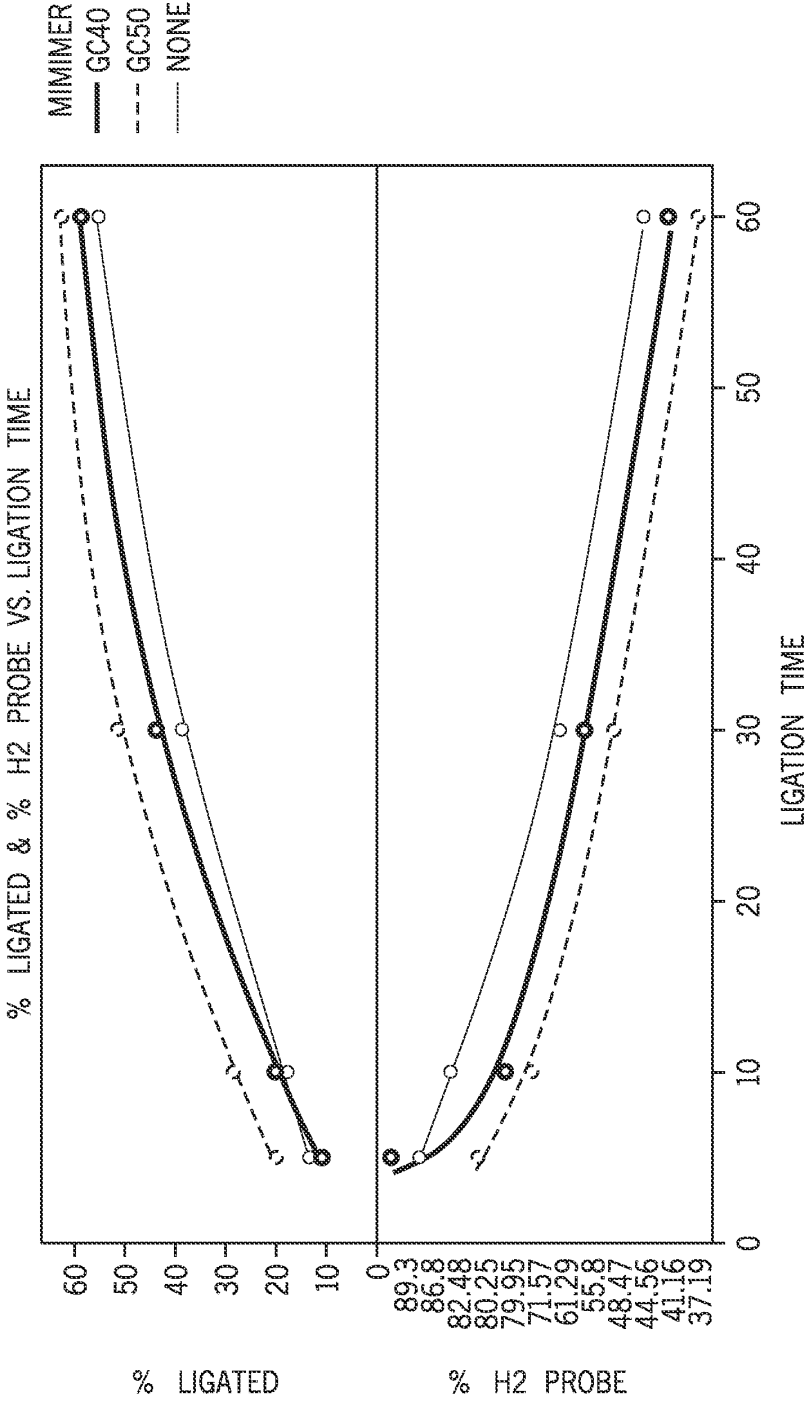
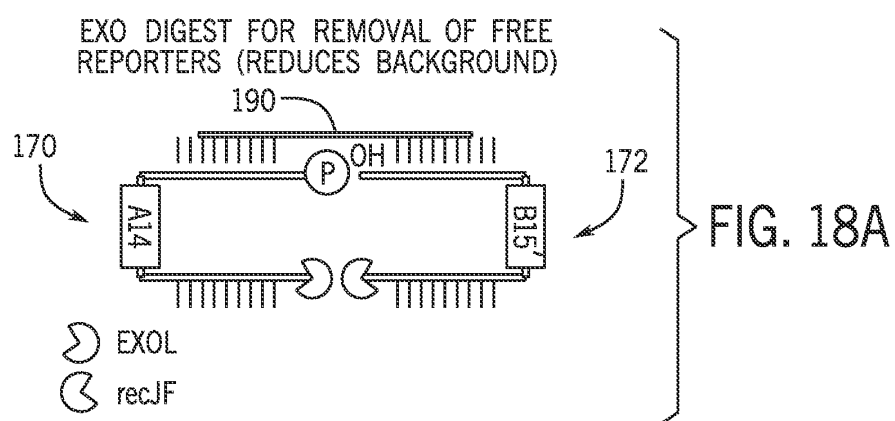
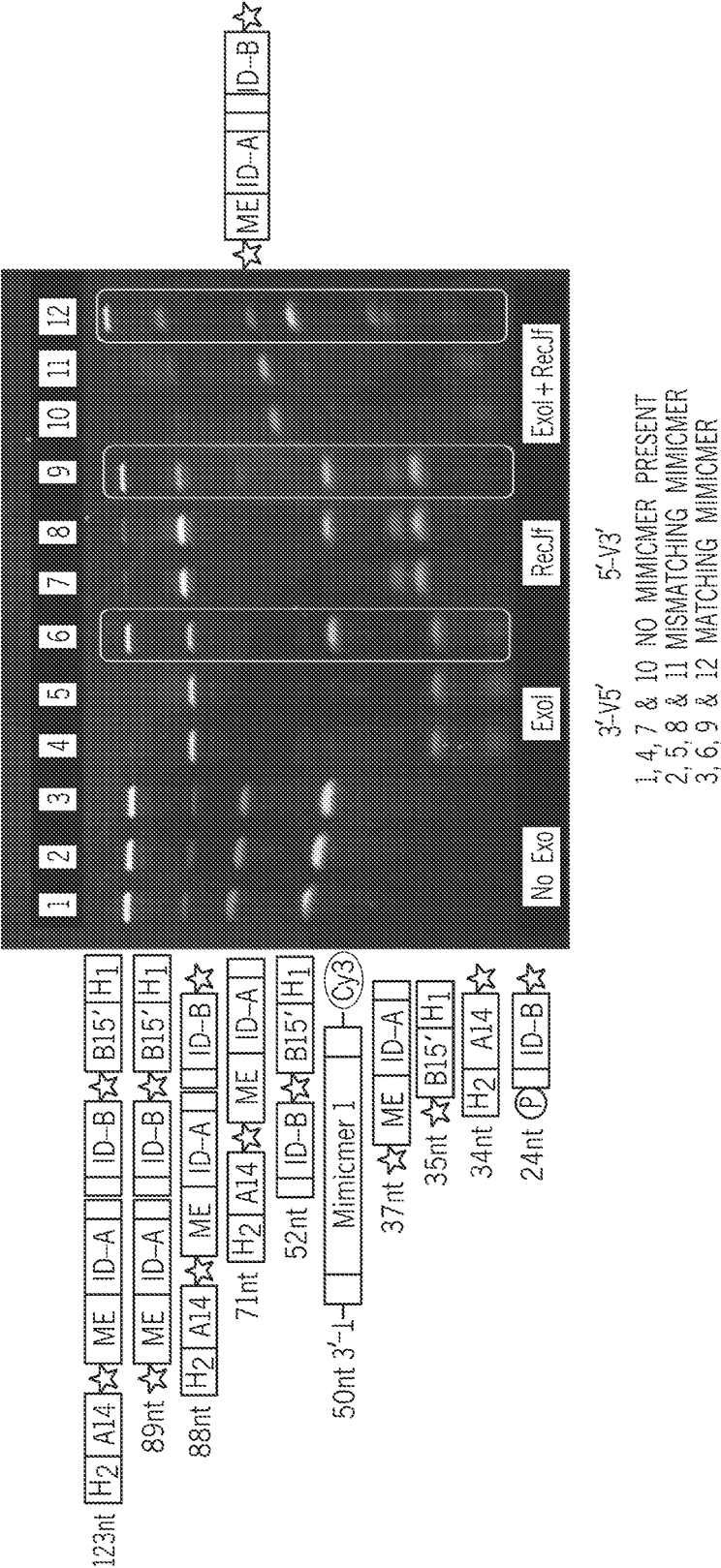


FIG. 17D





71nt

H2

A14

☆

ME

ID-A

52nt

ID-B

☆

B15'

H1

50nt

3'-I-

Mimicmer 1

-C₃

37nt

☆

ME

ID-A

35nt

☆

B15'

H1

34nt

H2

A14

☆

24nt

Ⓟ

ID-B

☆

1

2

3

4

5

6

7

8

9

10

11

12

1

2

3

4

5

6

7

8

9

10

11

12

No

Exo

Exol

RecJf

Exol + RecJf

☆

ME

ID-A

ID-B

☆

FIG. 18B

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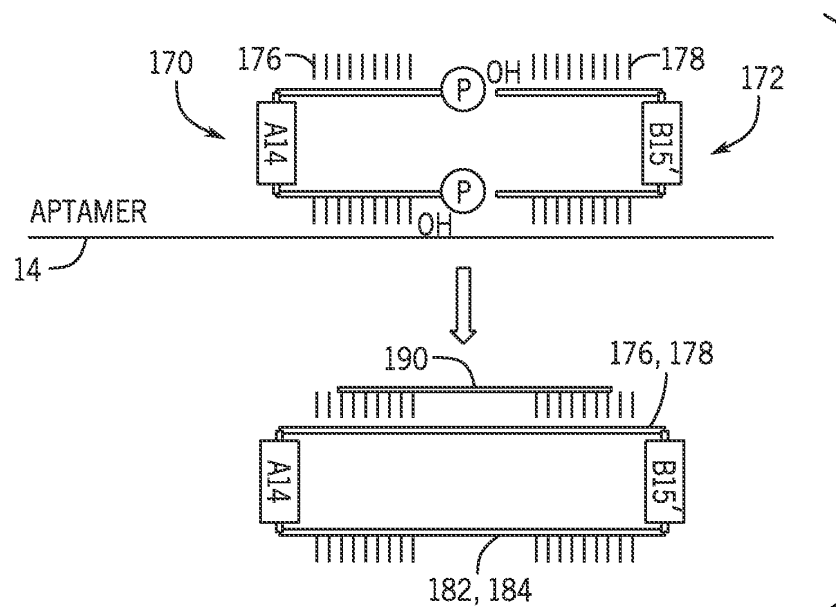


FIG. 19

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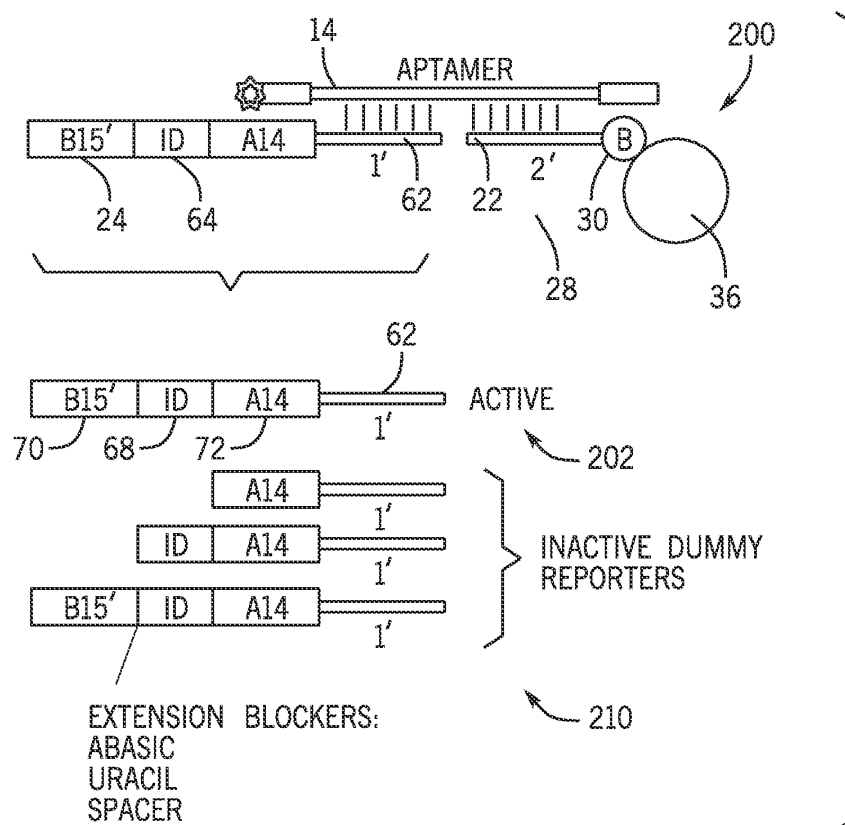
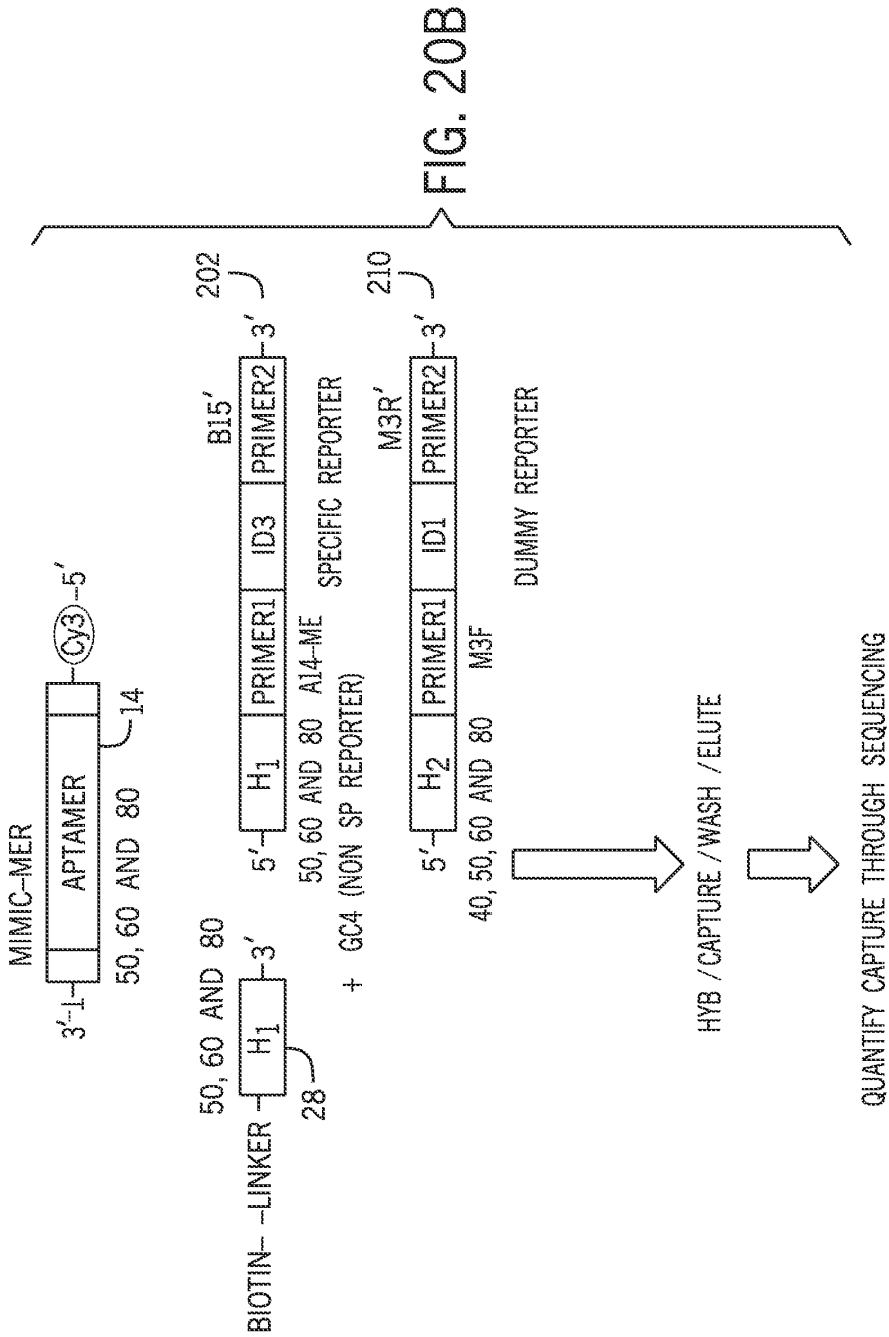


FIG. 20A



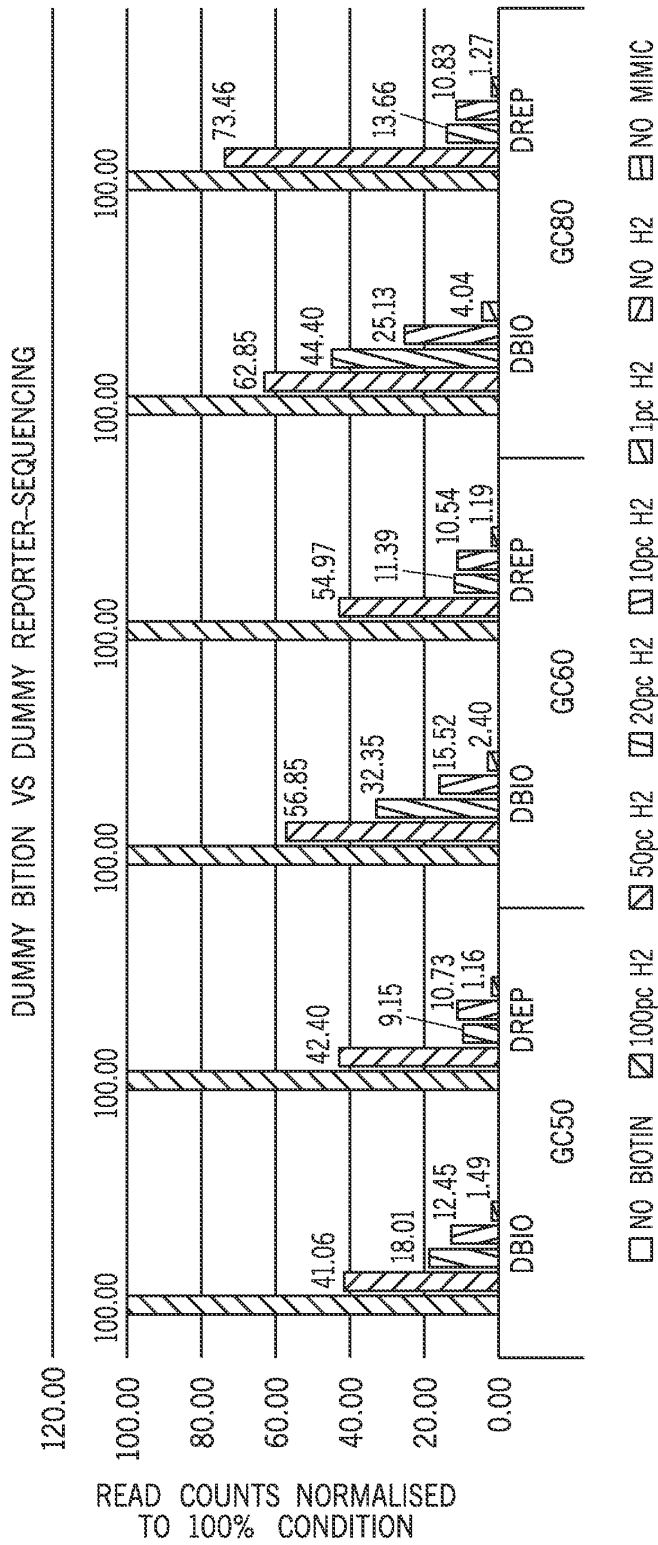
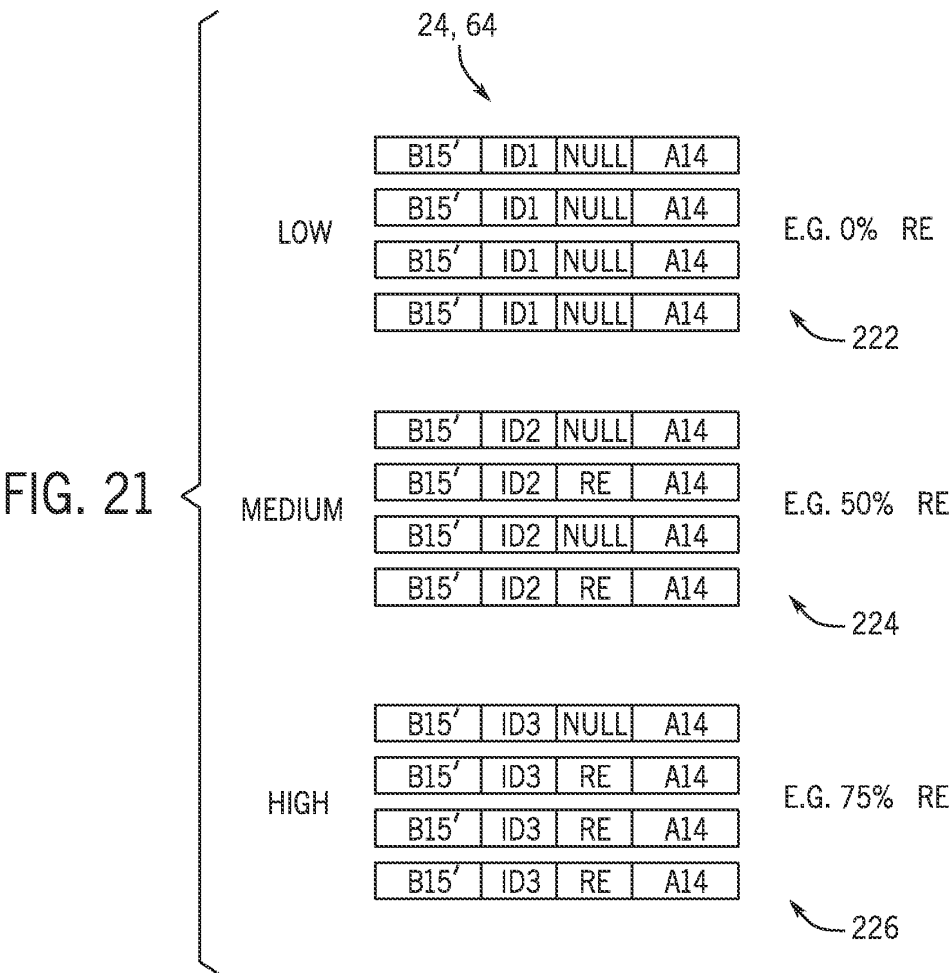
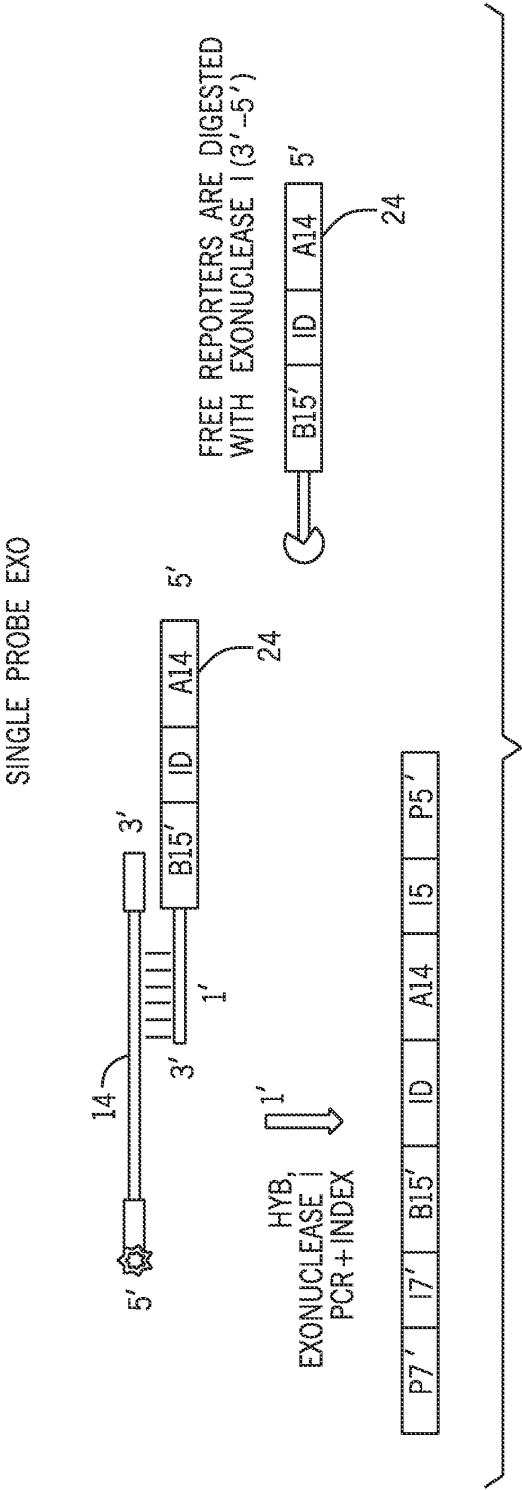


FIG. 20C





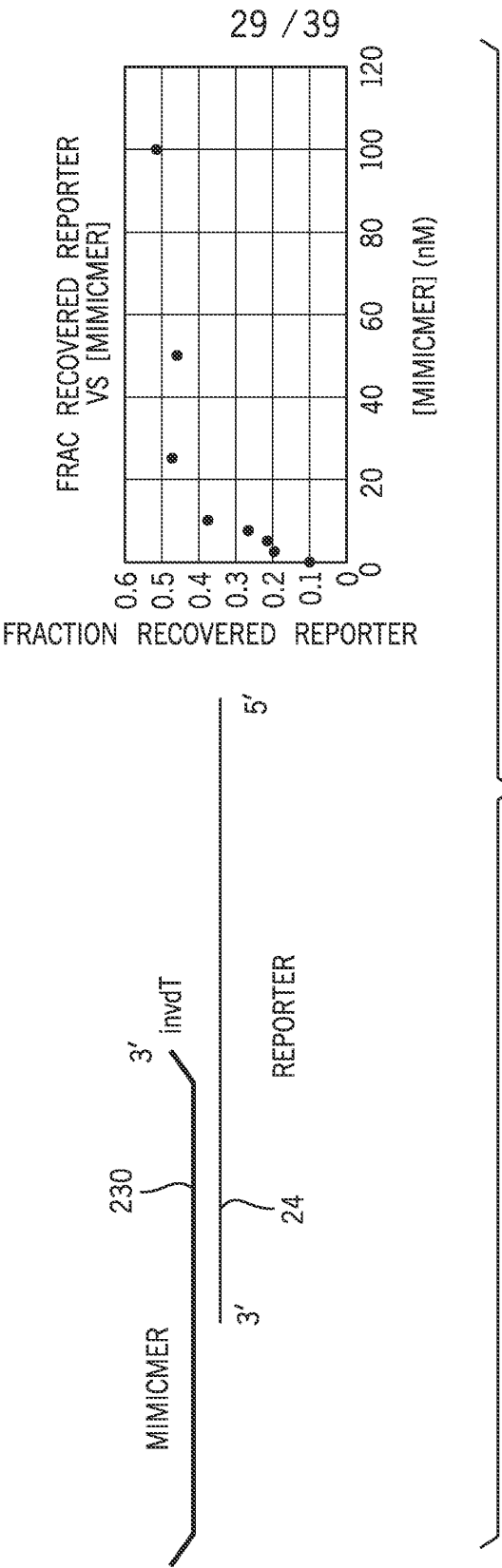


FIG. 22B

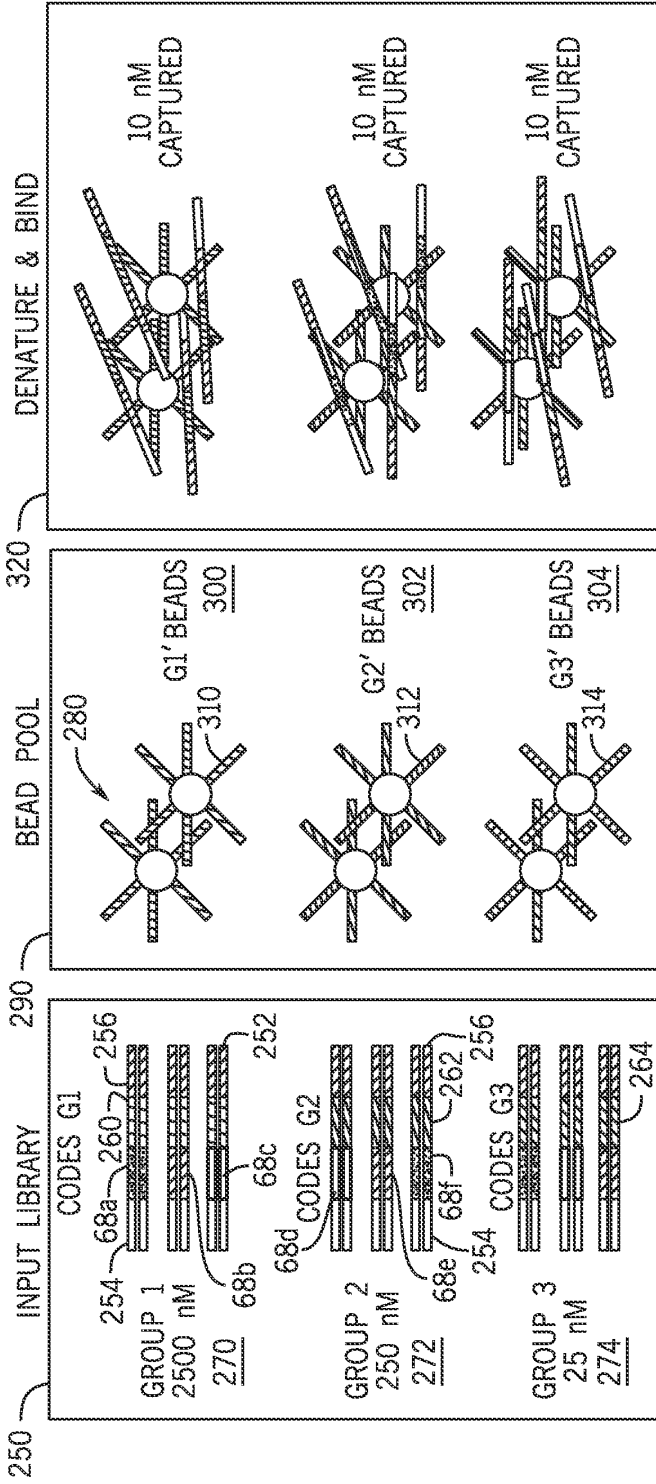


FIG. 23

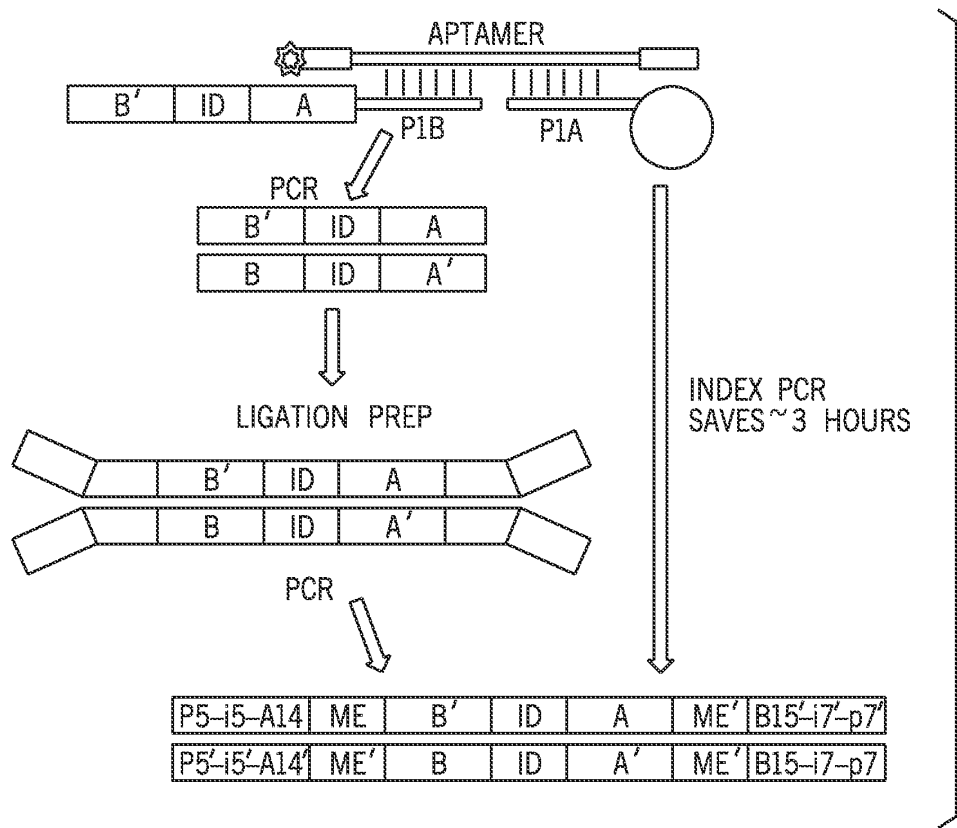


FIG. 24

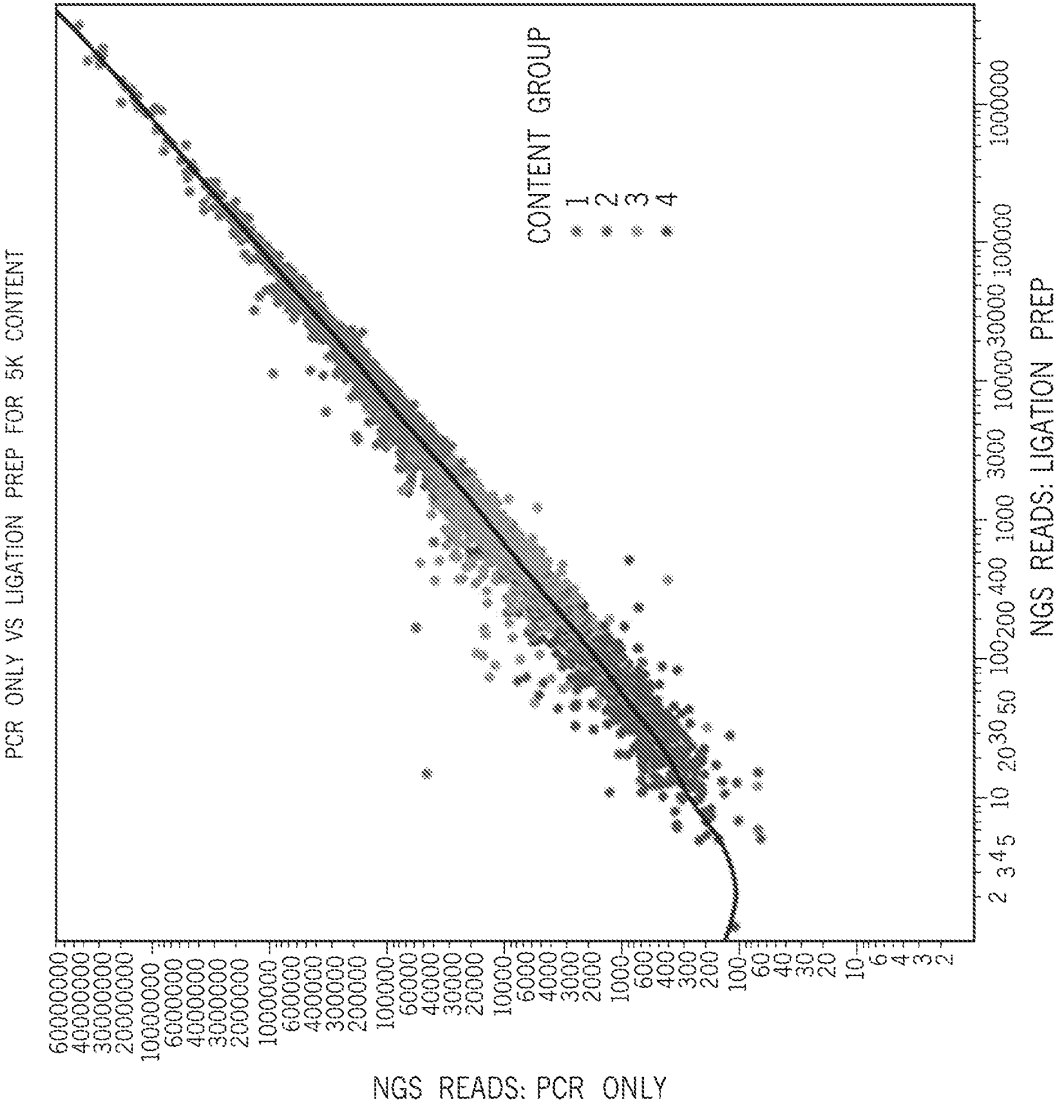


FIG. 25

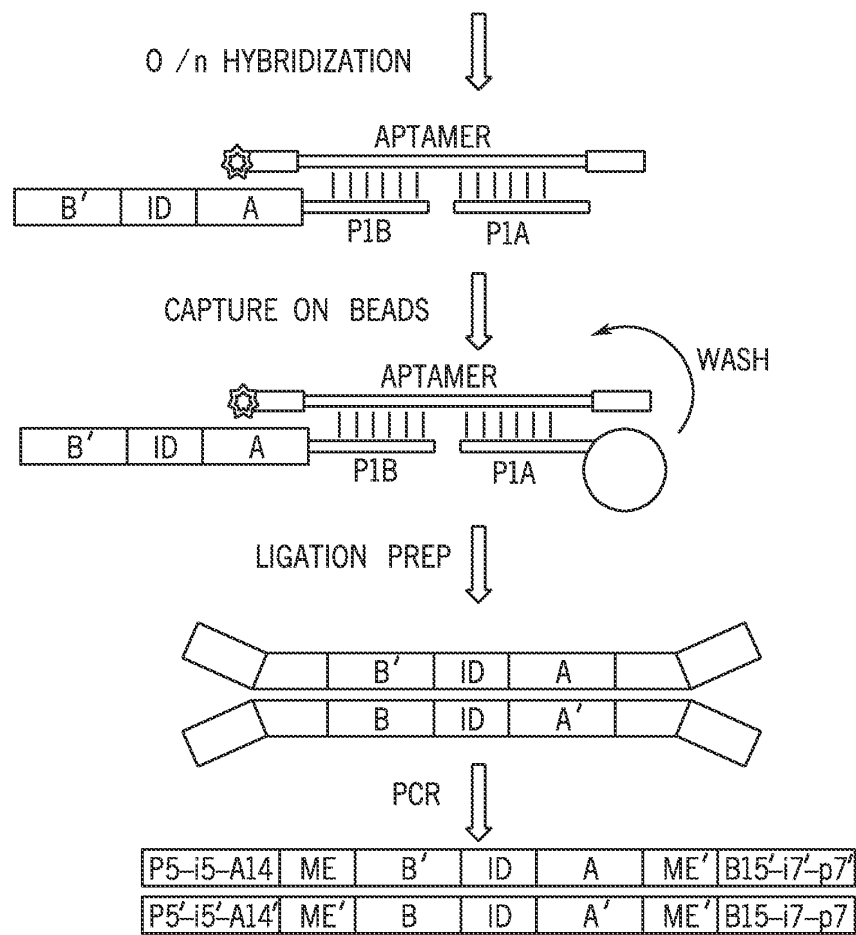


FIG. 26

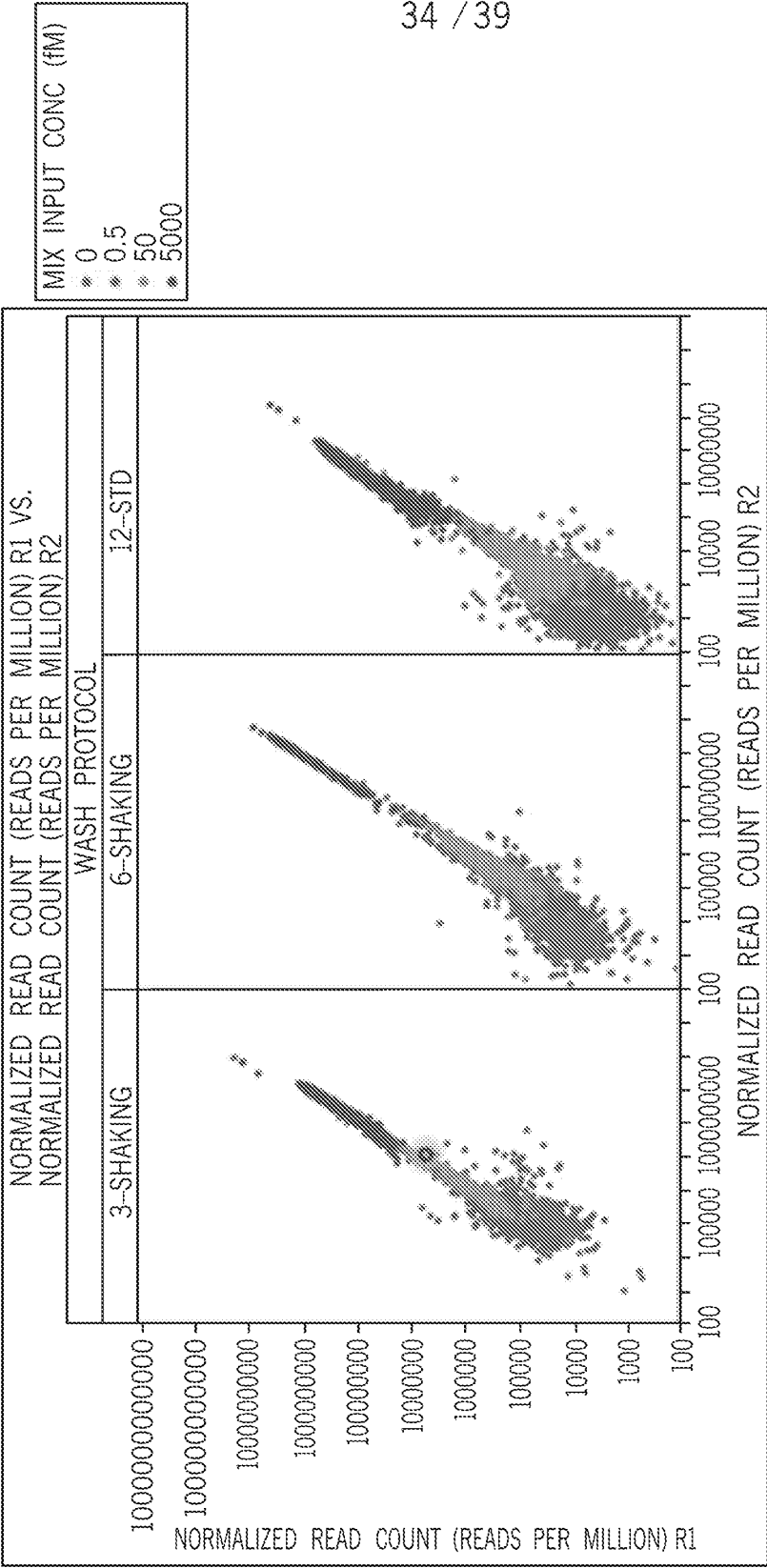


FIG. 27

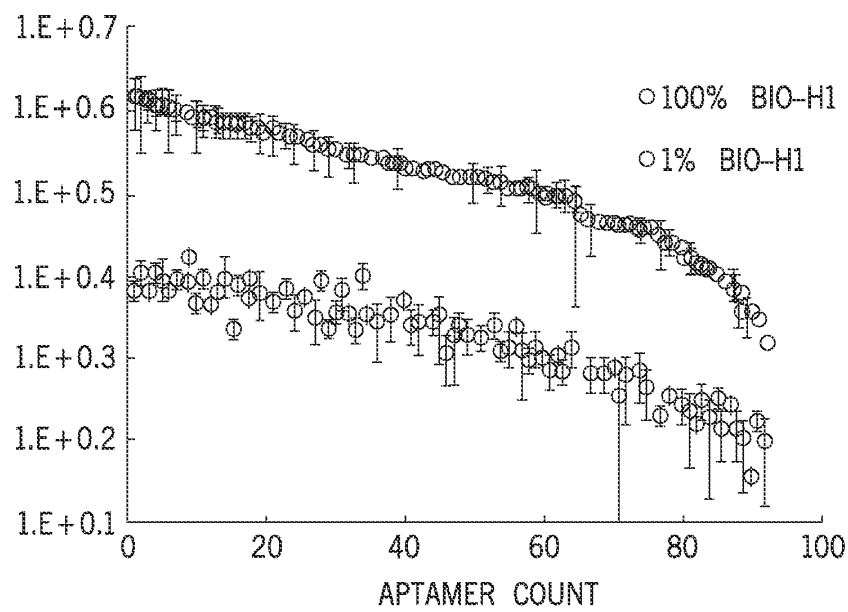
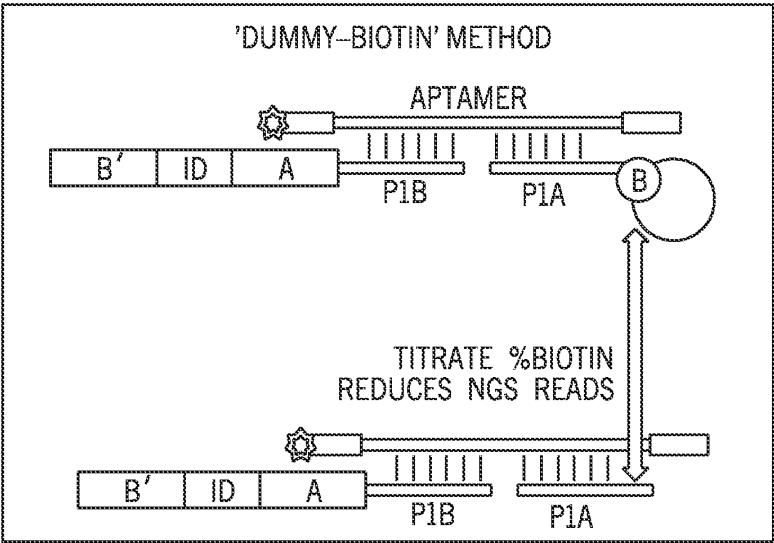


FIG. 28A

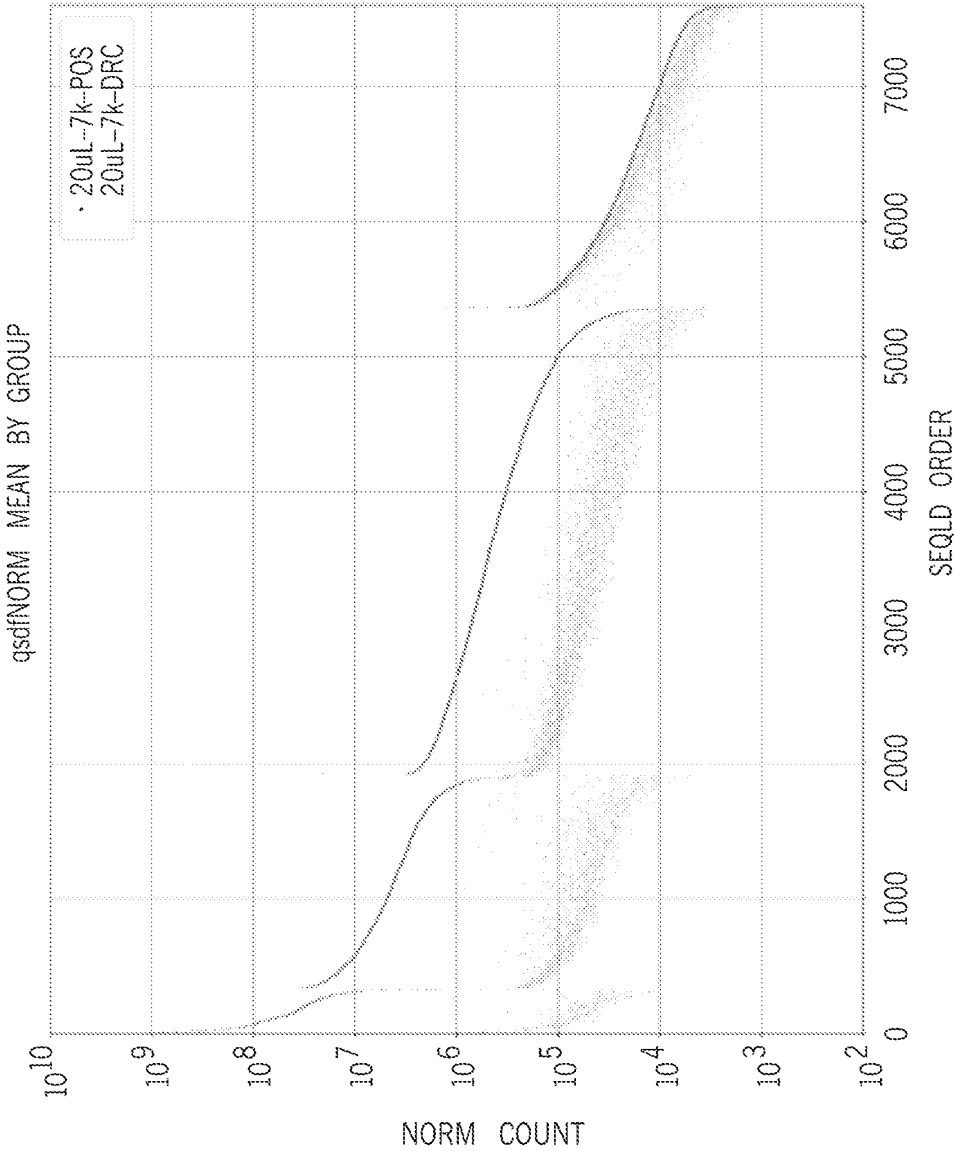


FIG. 28B

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DESIRED COMPLEX STRUCTURE AFTER HYB: TRI-MOLECULAR

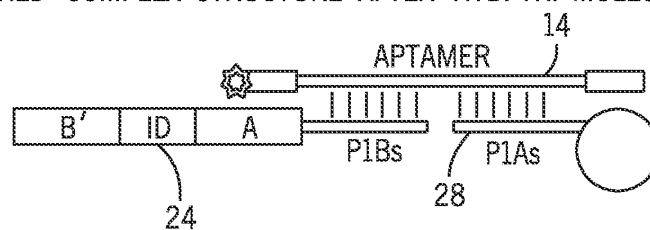
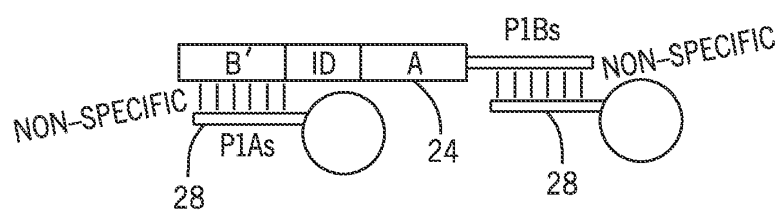
UN-DESIRED STRUCTURE AFTER HYB: APTAMER
BINDING REGION TO APTAMER BINDING REGION

FIG. 29

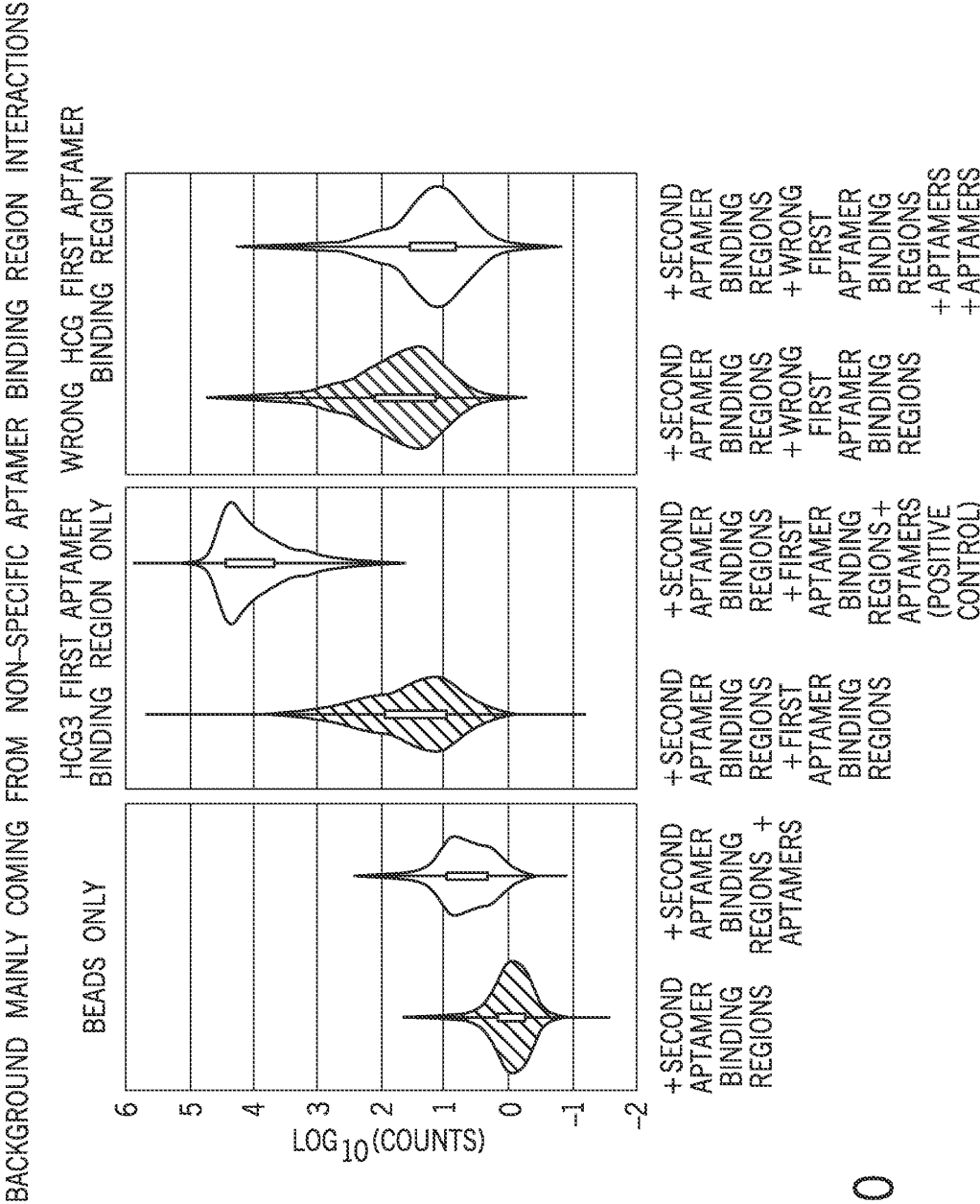


FIG. 30

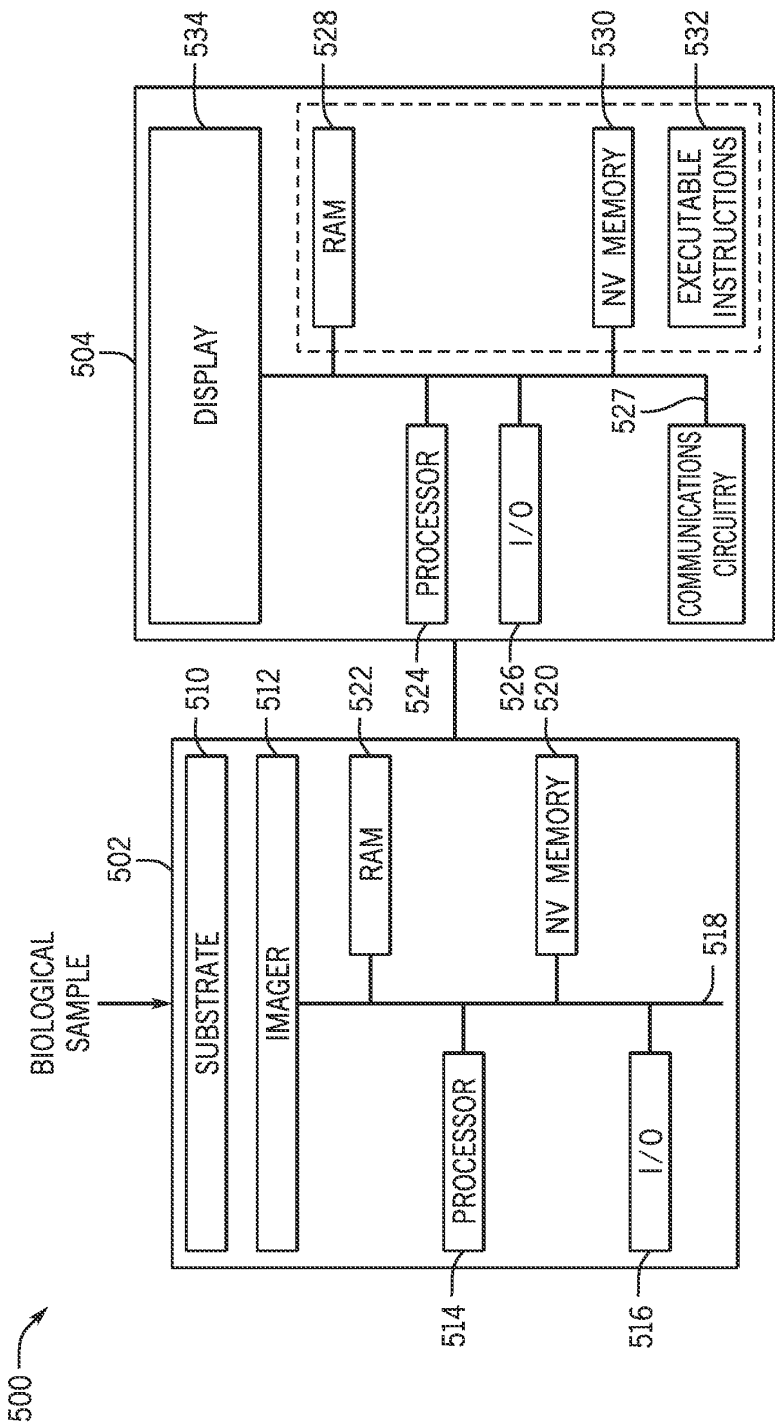


FIG. 31