

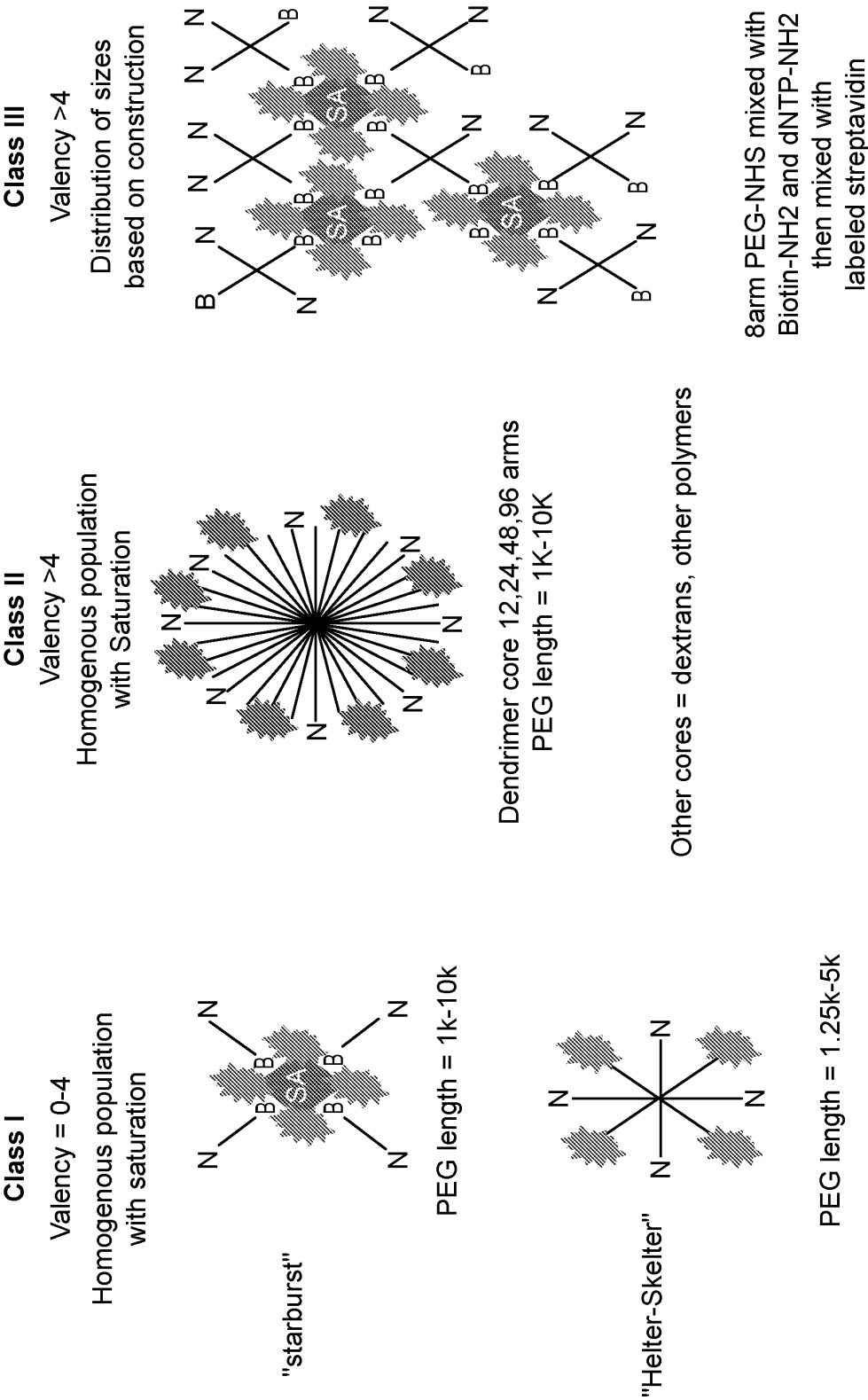


FIG. 1

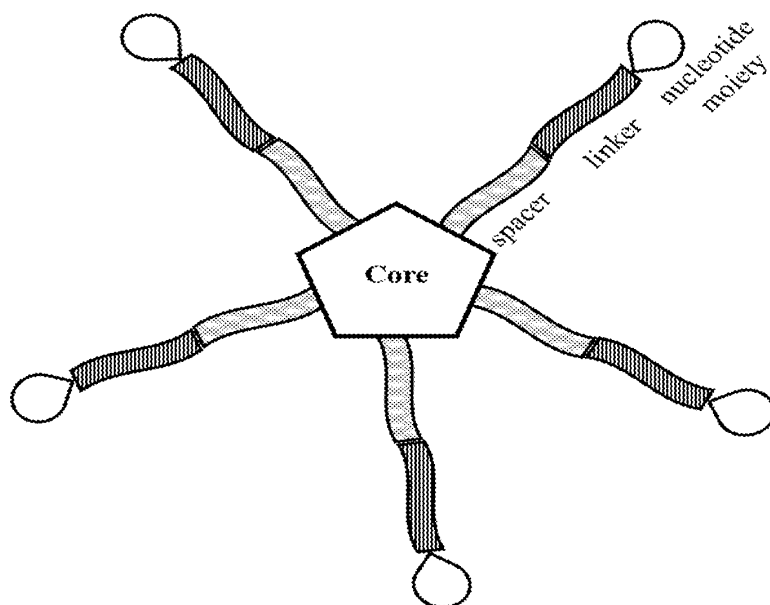


FIG. 2

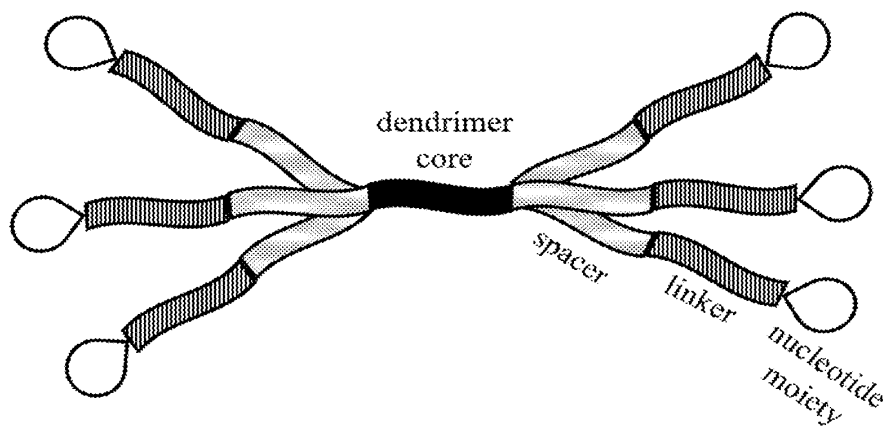


FIG. 3

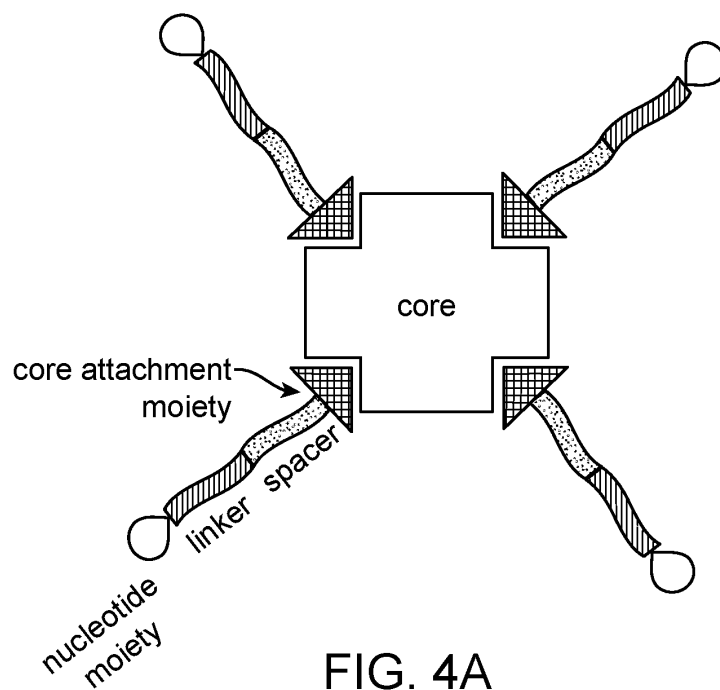


FIG. 4A

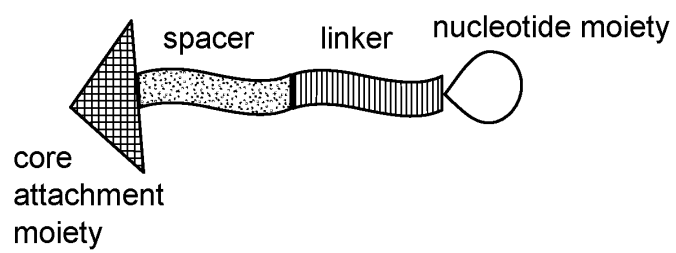
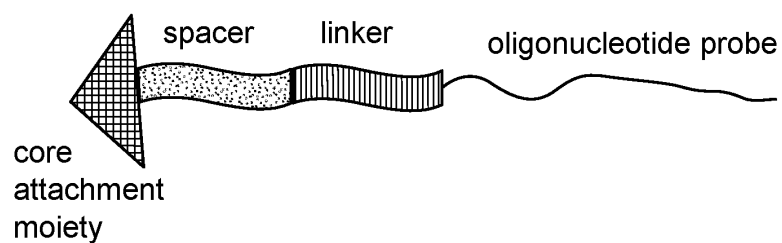
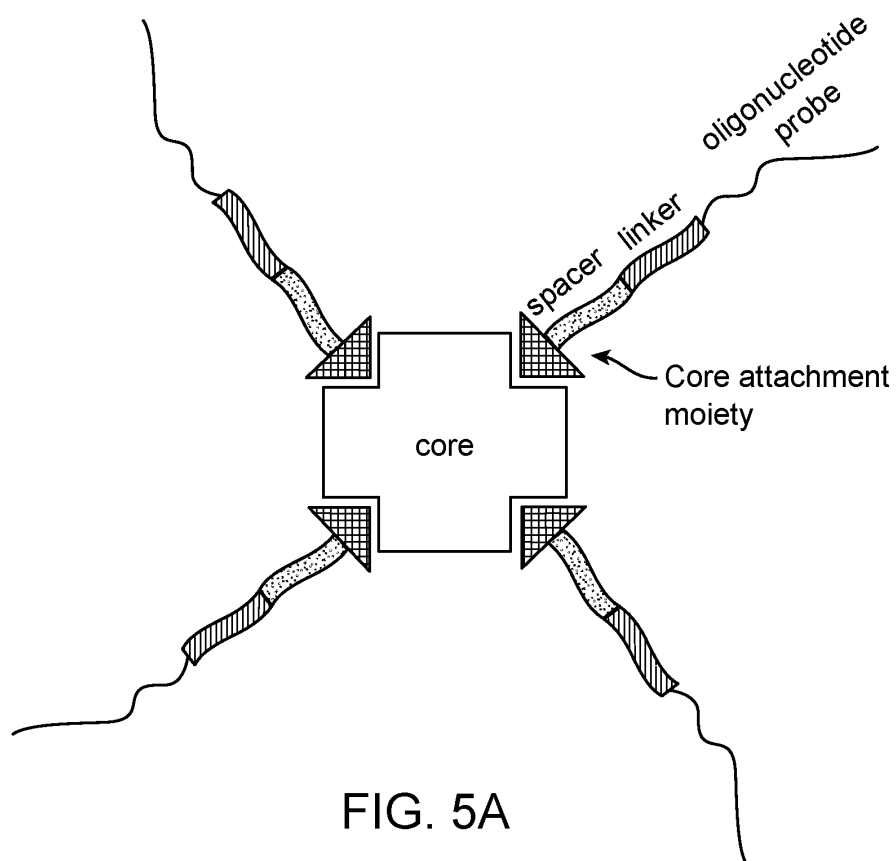


FIG. 4B



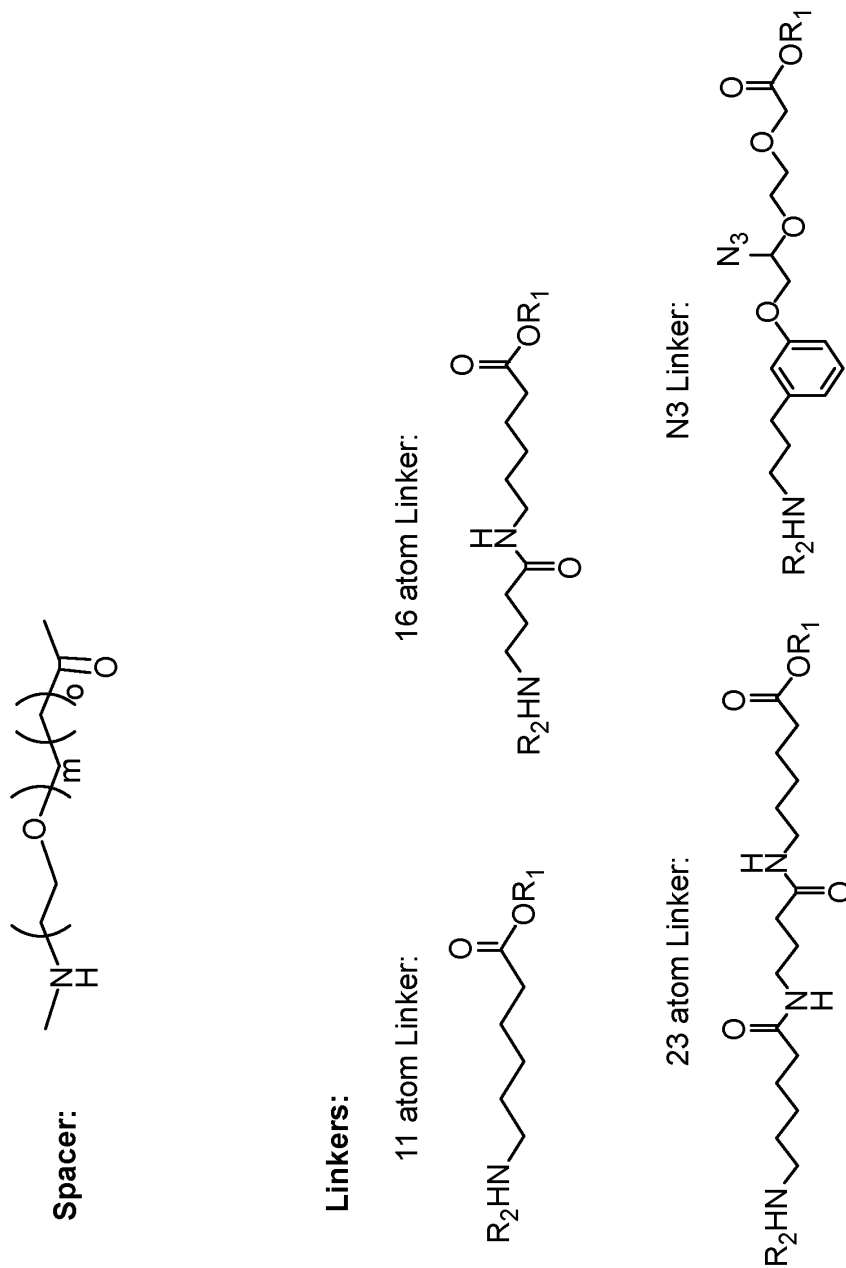


FIG. 6

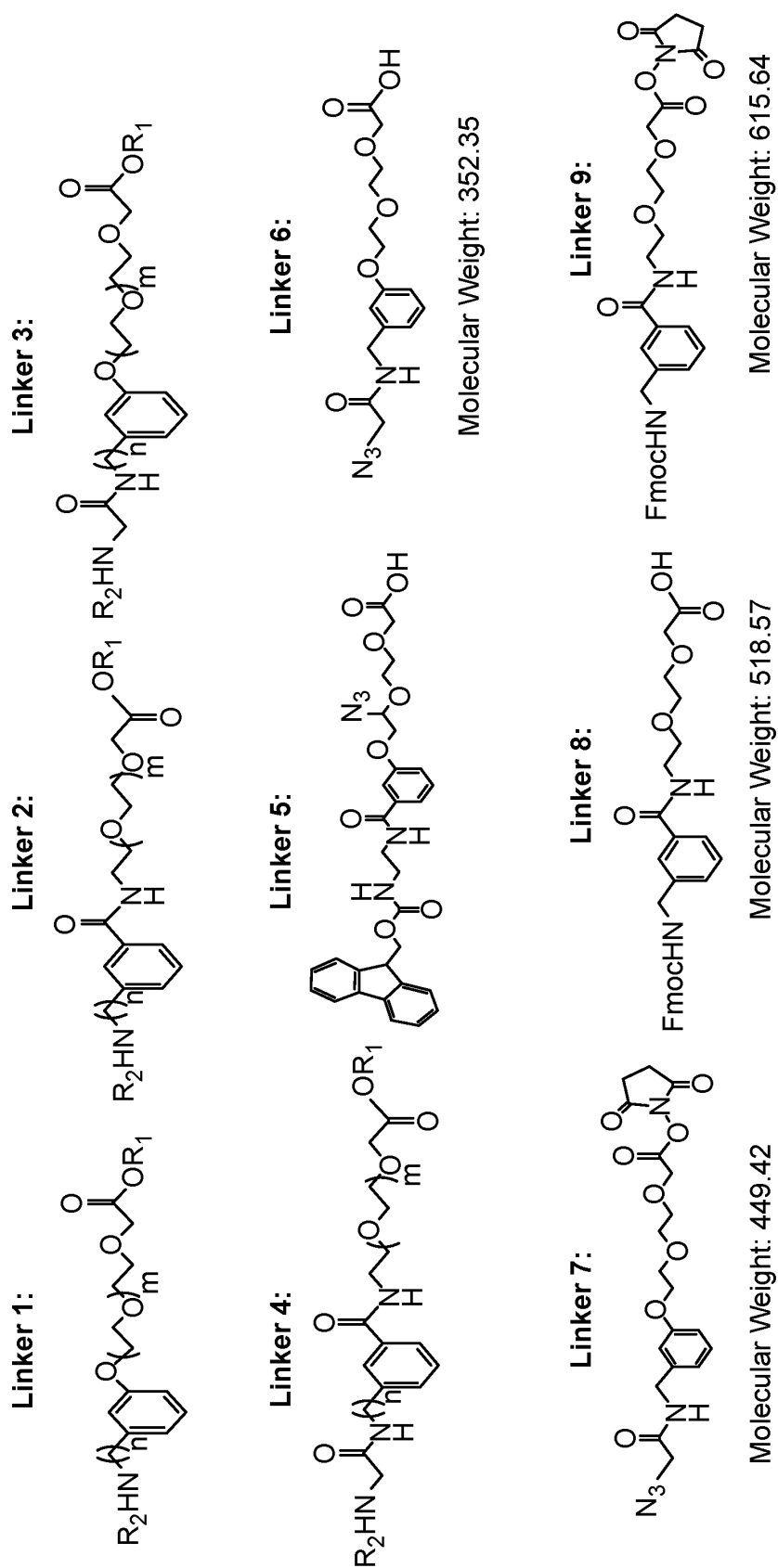
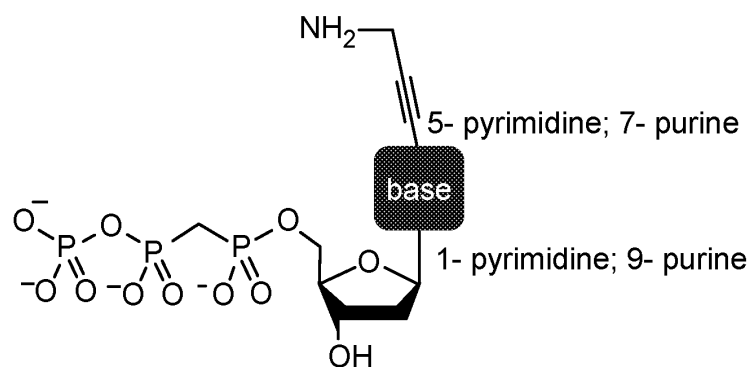
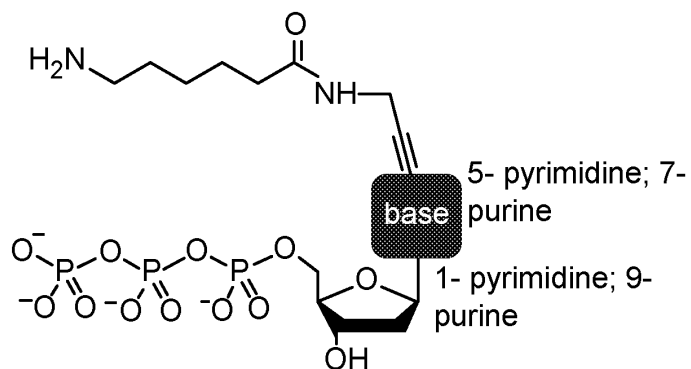
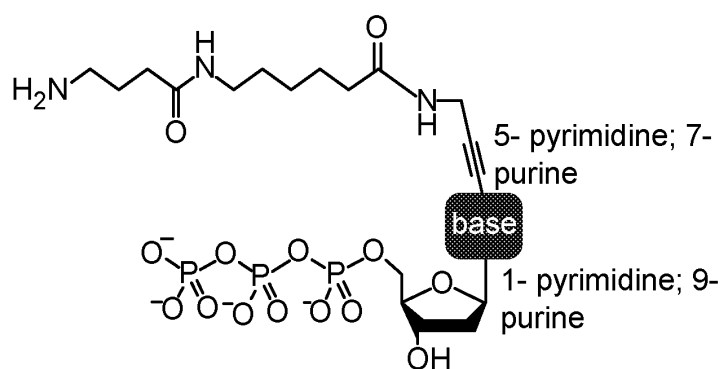
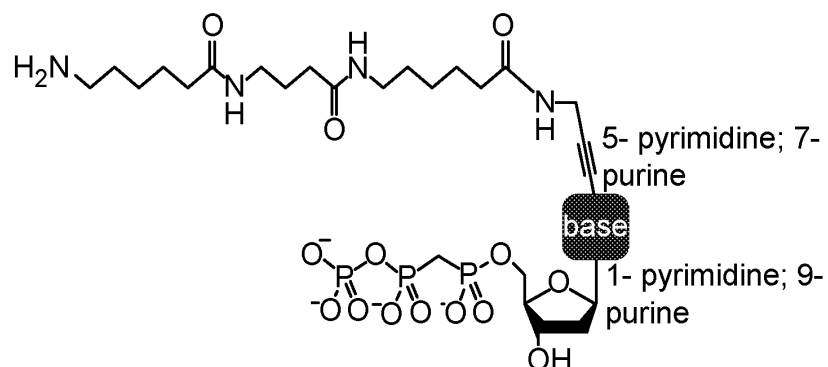
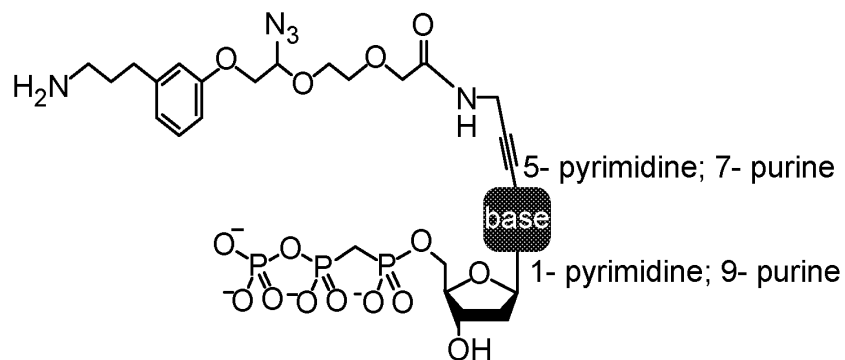
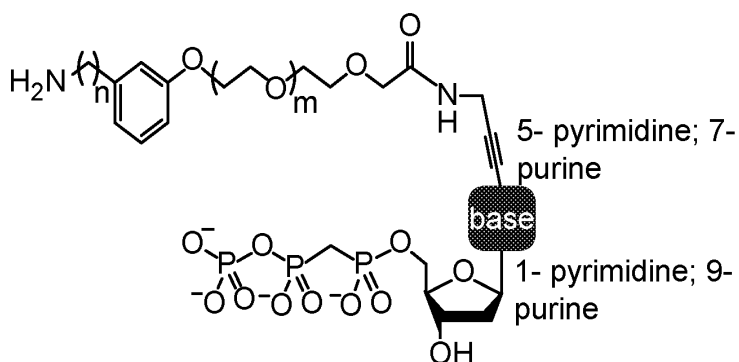


FIG. 7

dNTP-PA-NH₂:**dNTP-PA-11 Atom Linker-NH₂:****dNTP-PA-16 Atom Linker-NH₂:****FIG. 8**

SUBSTITUTE SHEET (RULE 26)

dNTP-PA-23 Atom Linker-NH₂:**dNTP-PA-N3 Linker-NH₂:****dNTP-PA-Linker 1-NH₂:****FIG. 9**

SUBSTITUTE SHEET (RULE 26)

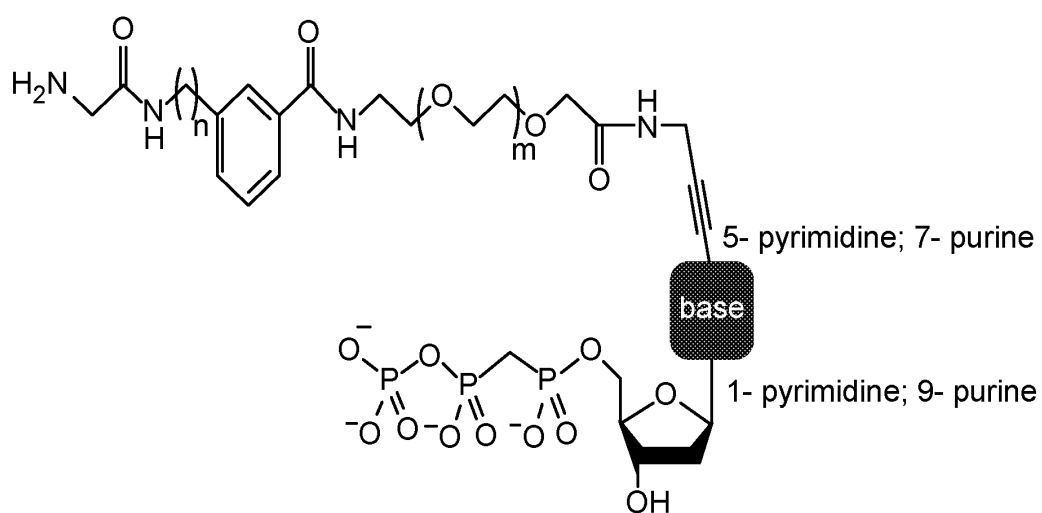
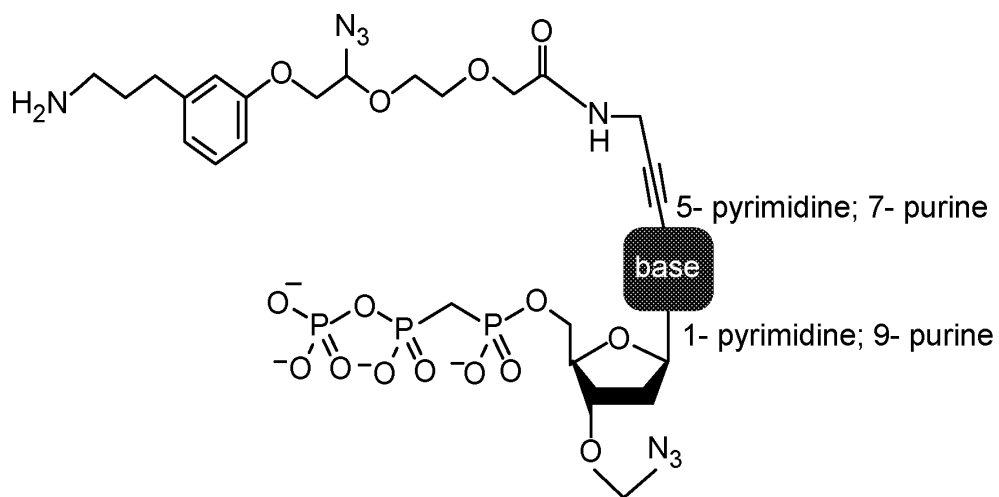
dNTP-PA-Linker 4-NH₂:**dNTP-PA-N3 Linker-NH₂:**

FIG. 11

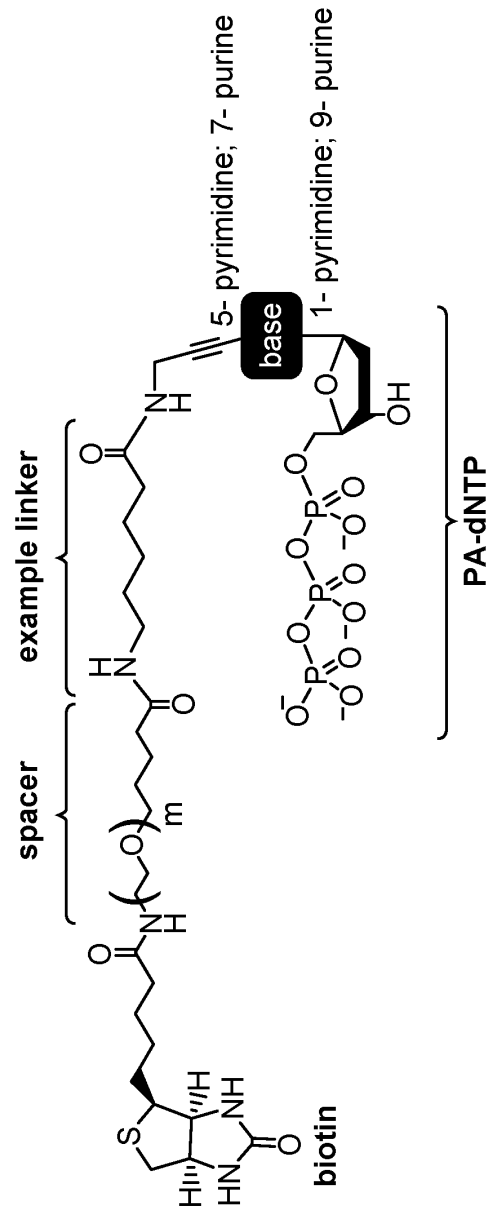


FIG. 12

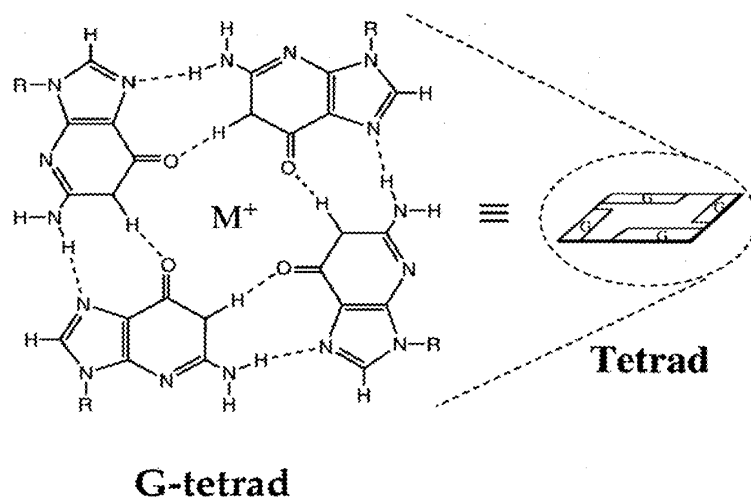


FIG. 13

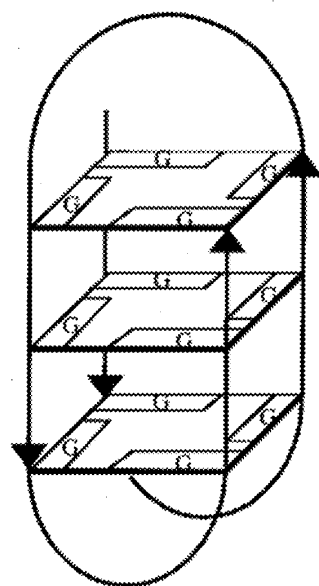


FIG. 14

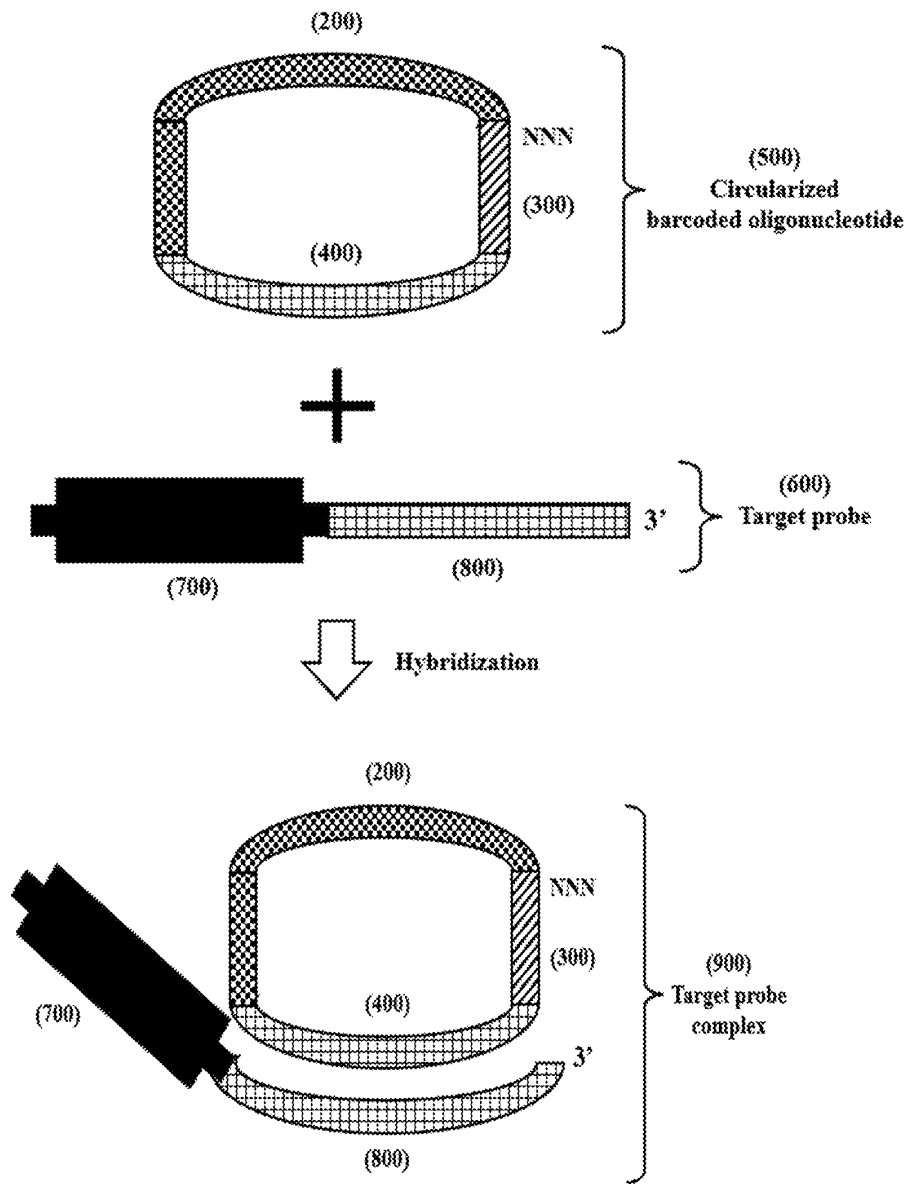


FIG. 15

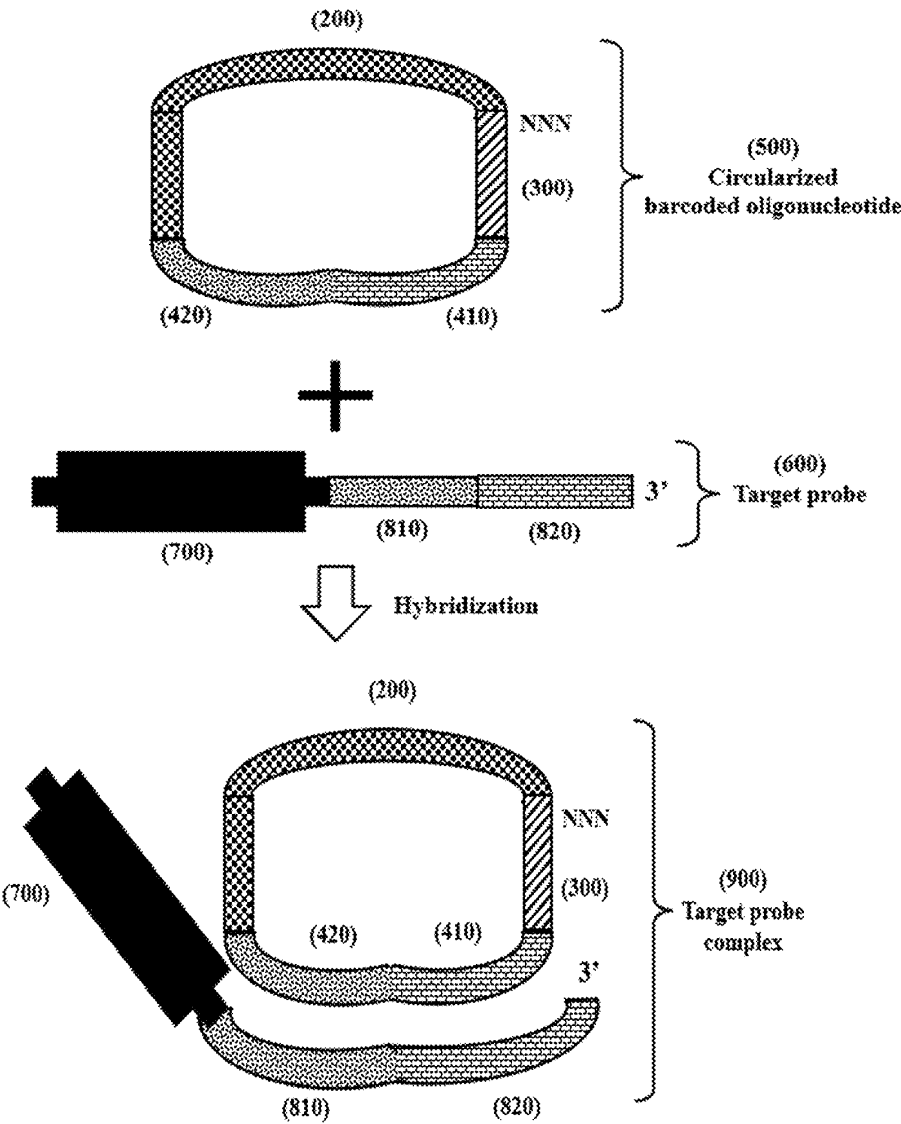


FIG. 16

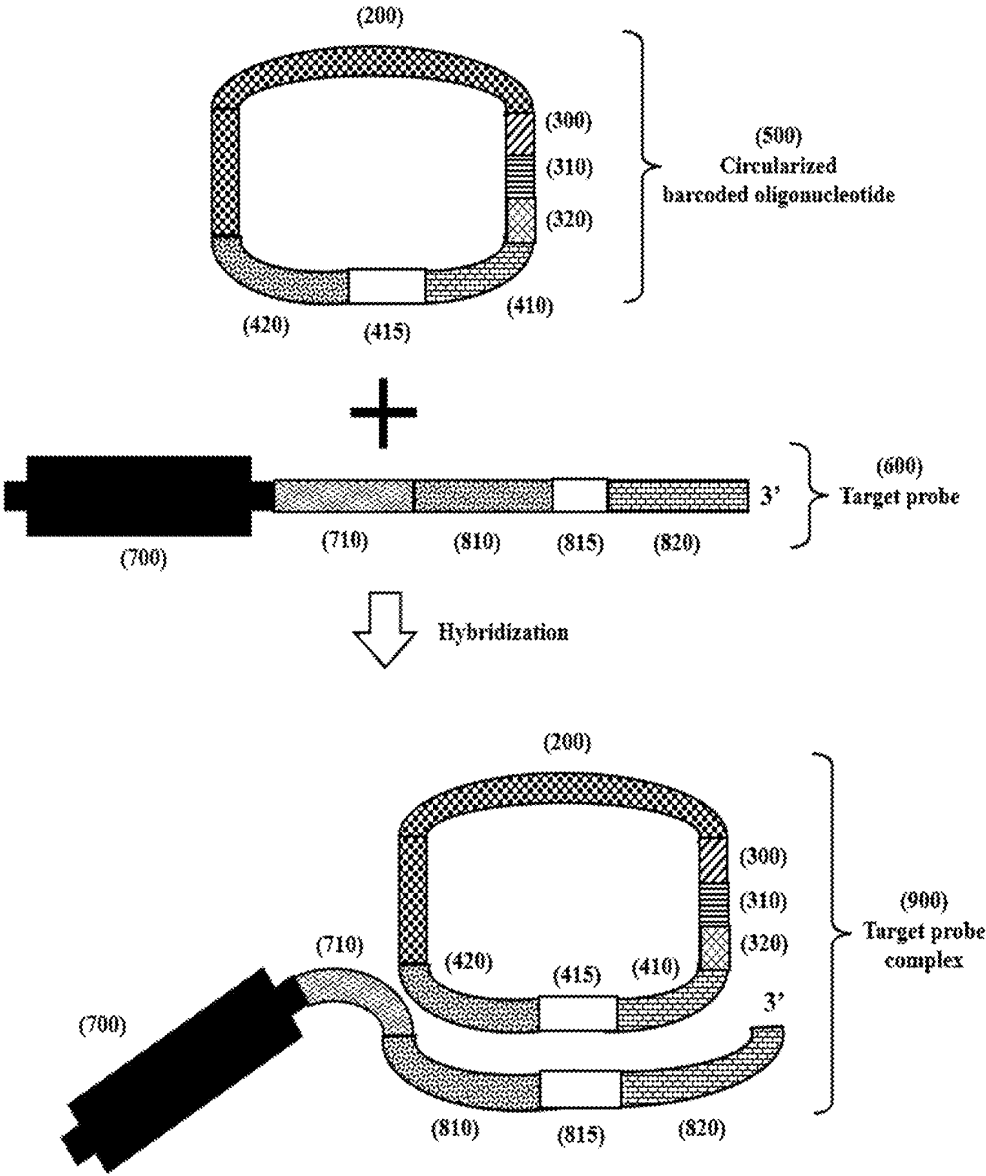


FIG. 17

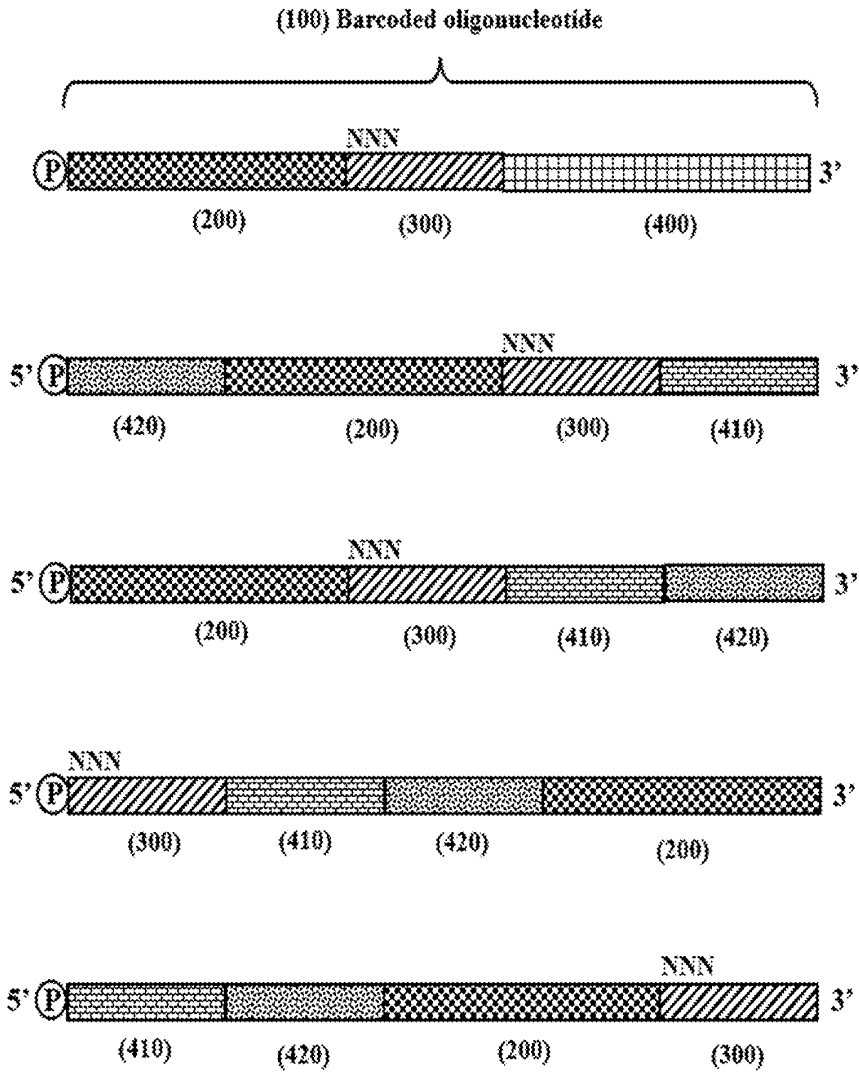


FIG. 18

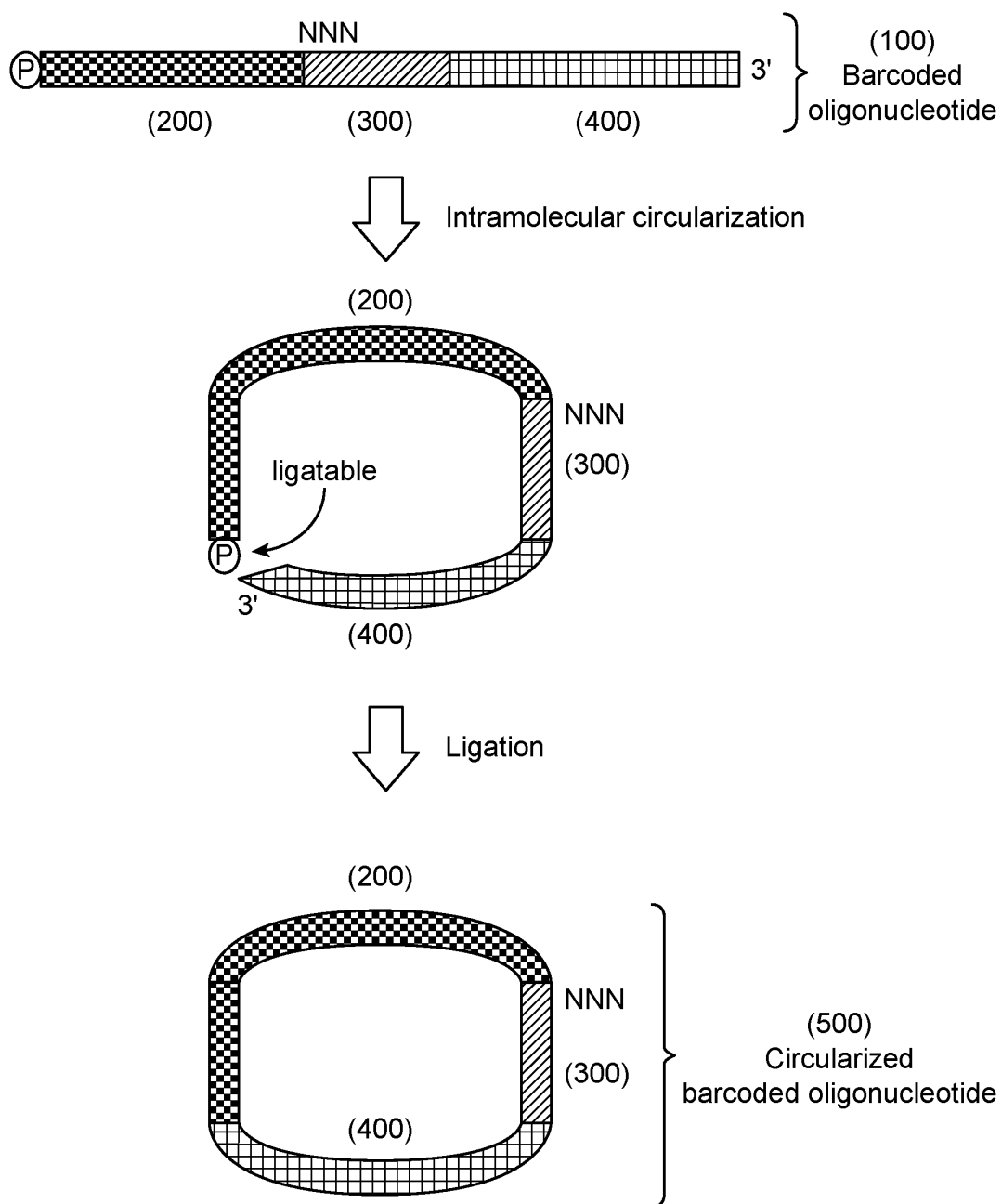


FIG. 19

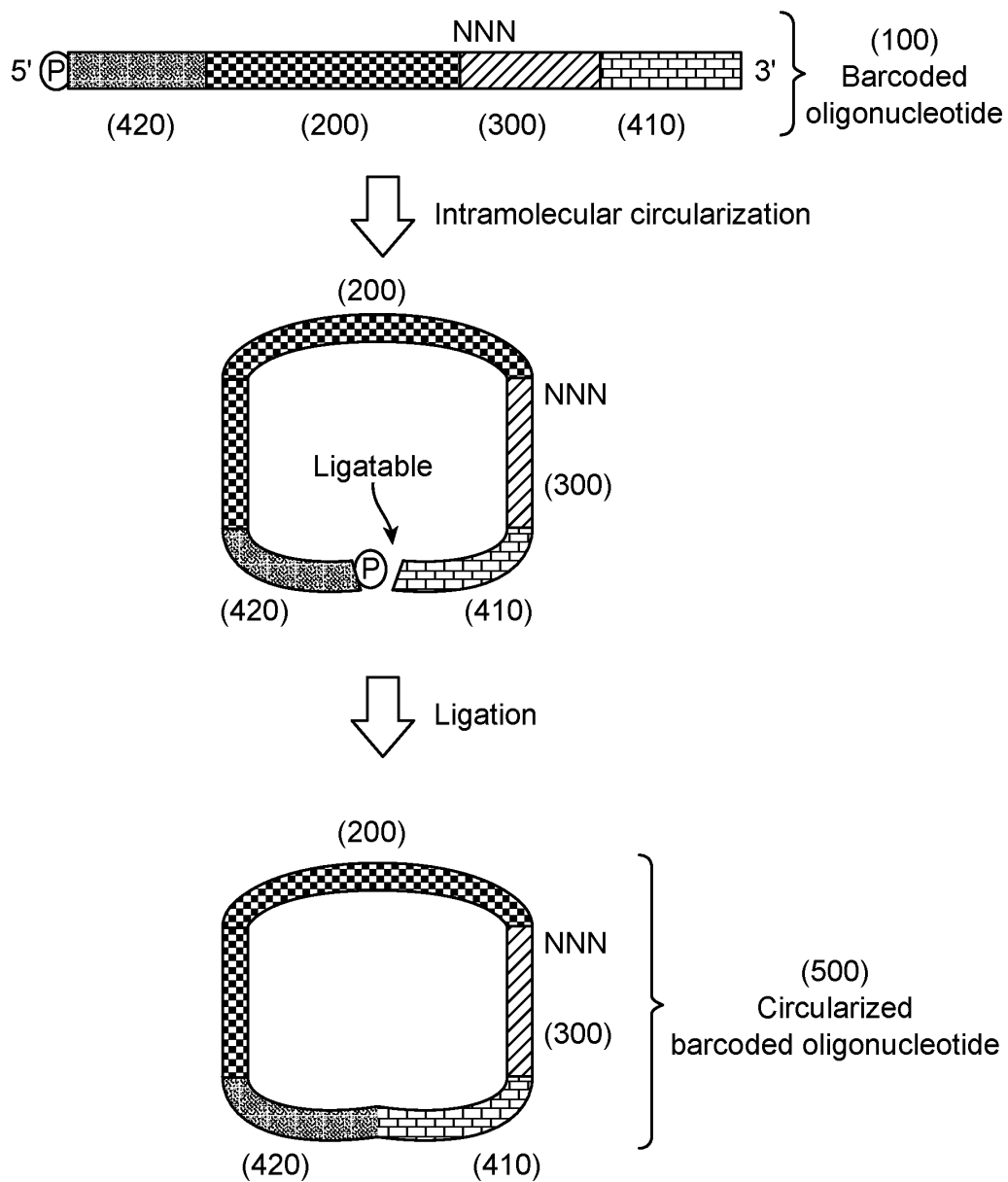


FIG. 20

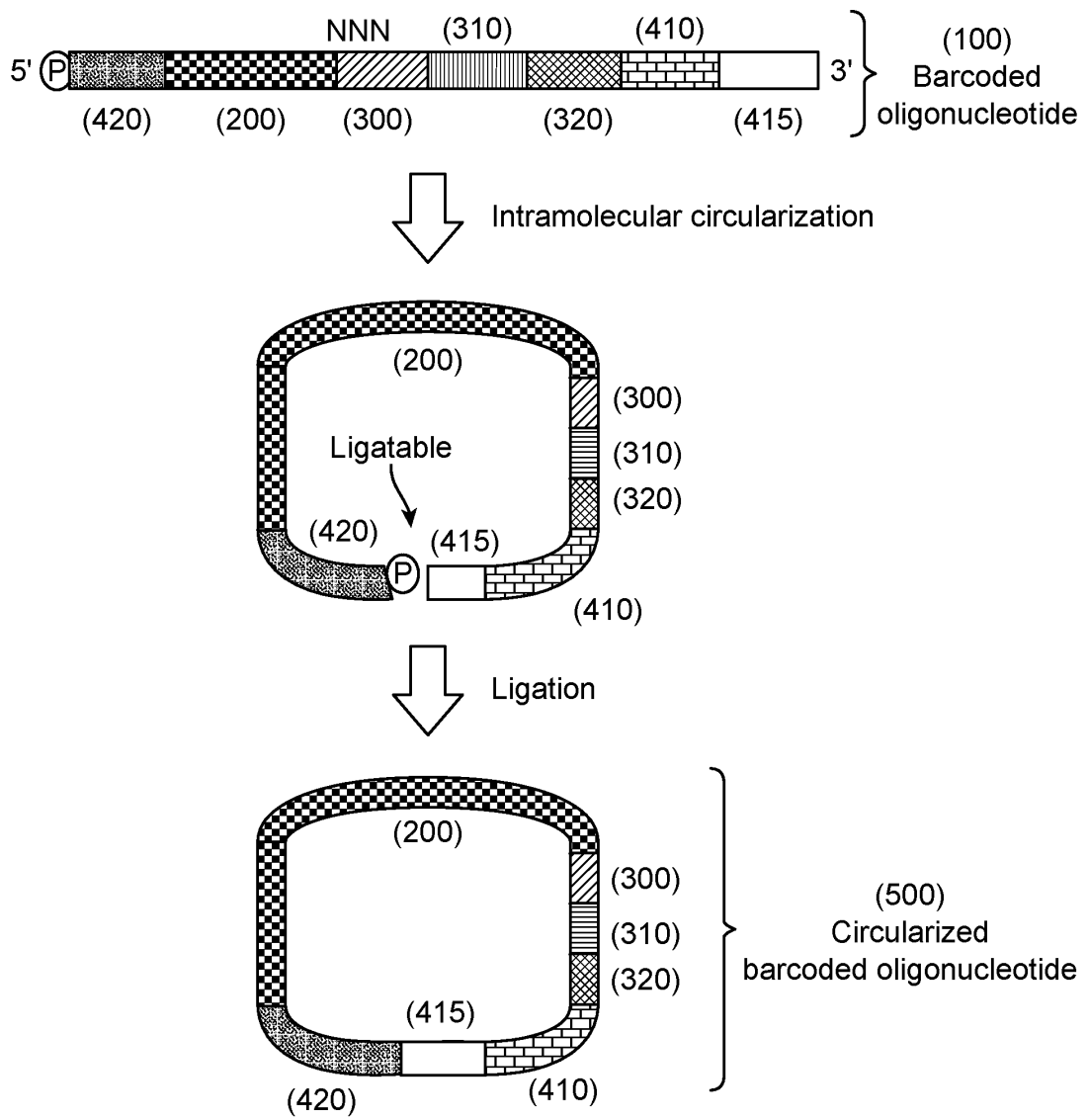


FIG. 21

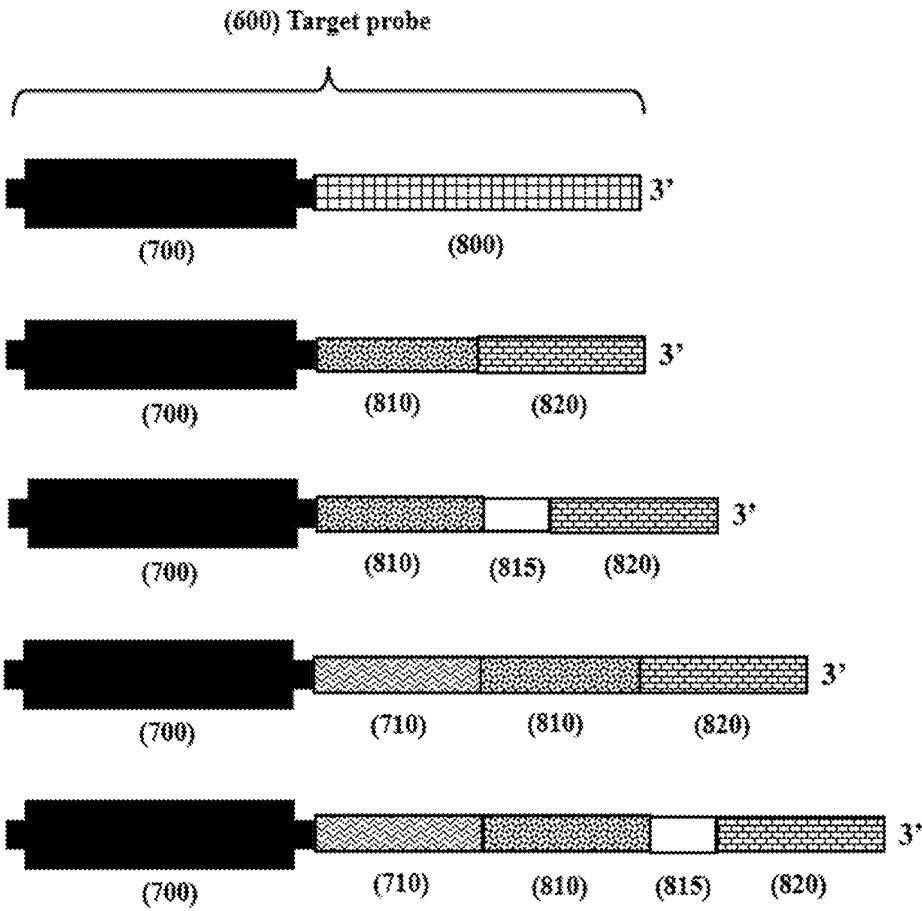


FIG. 22

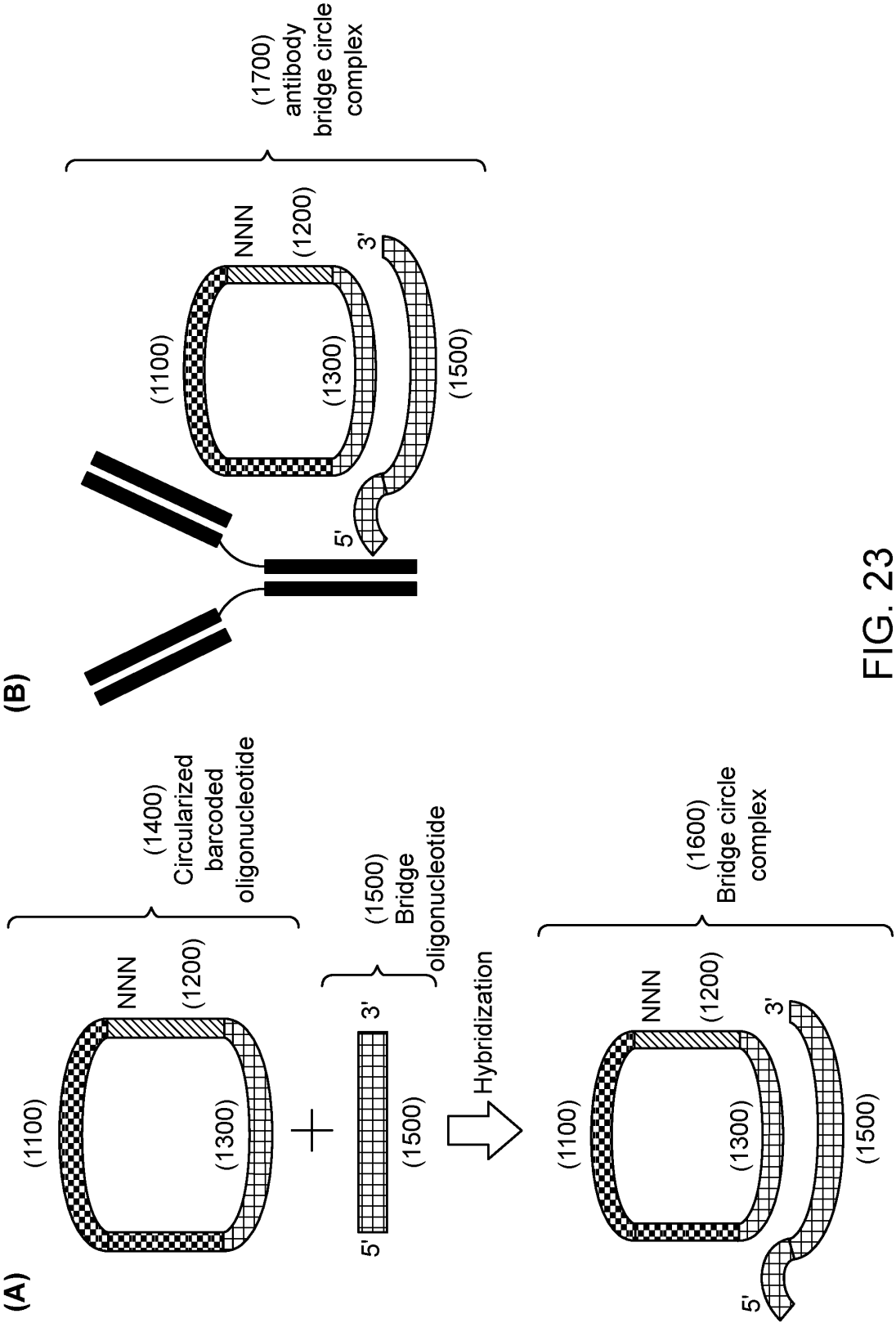


FIG. 23

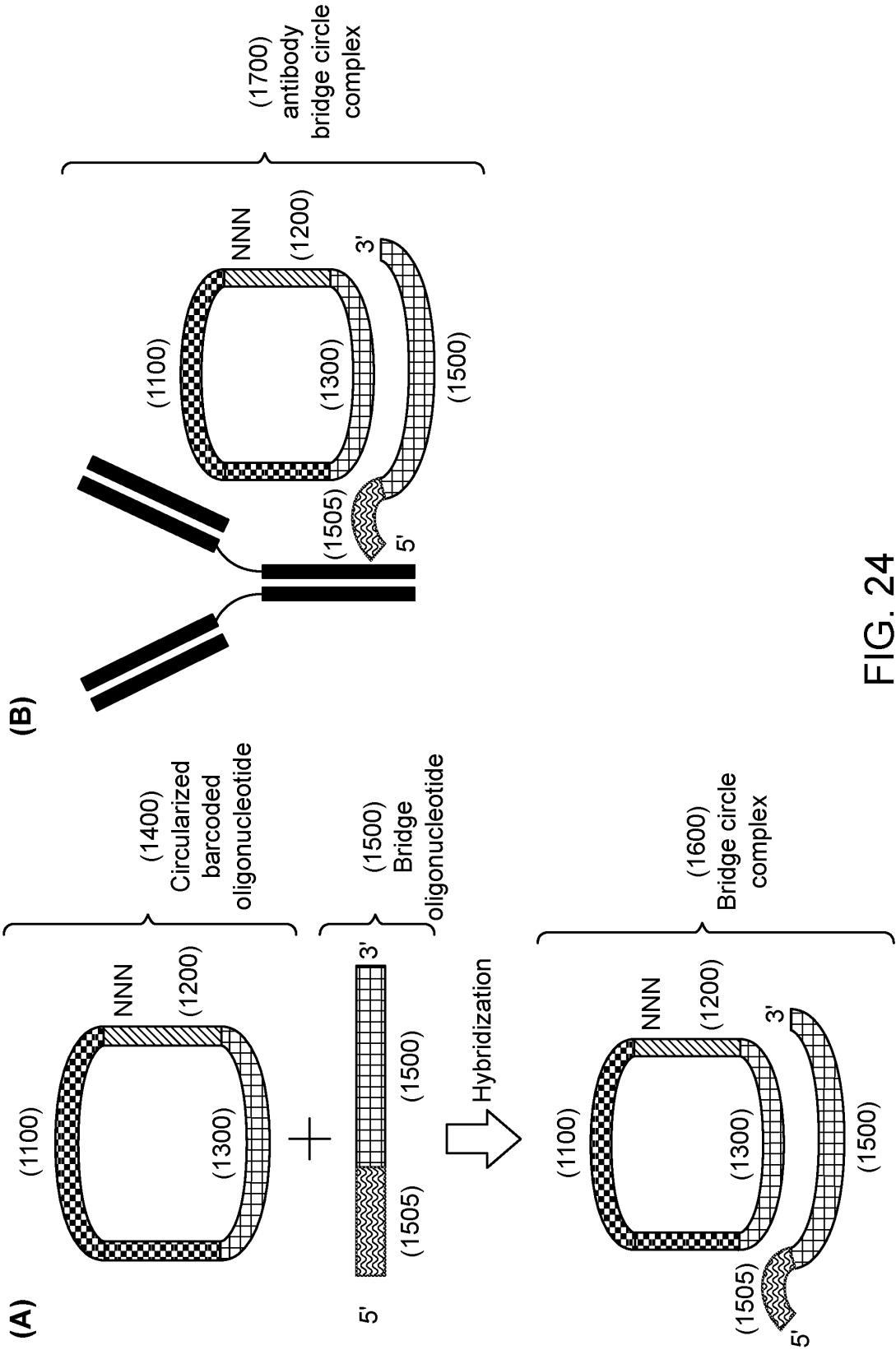


FIG. 24

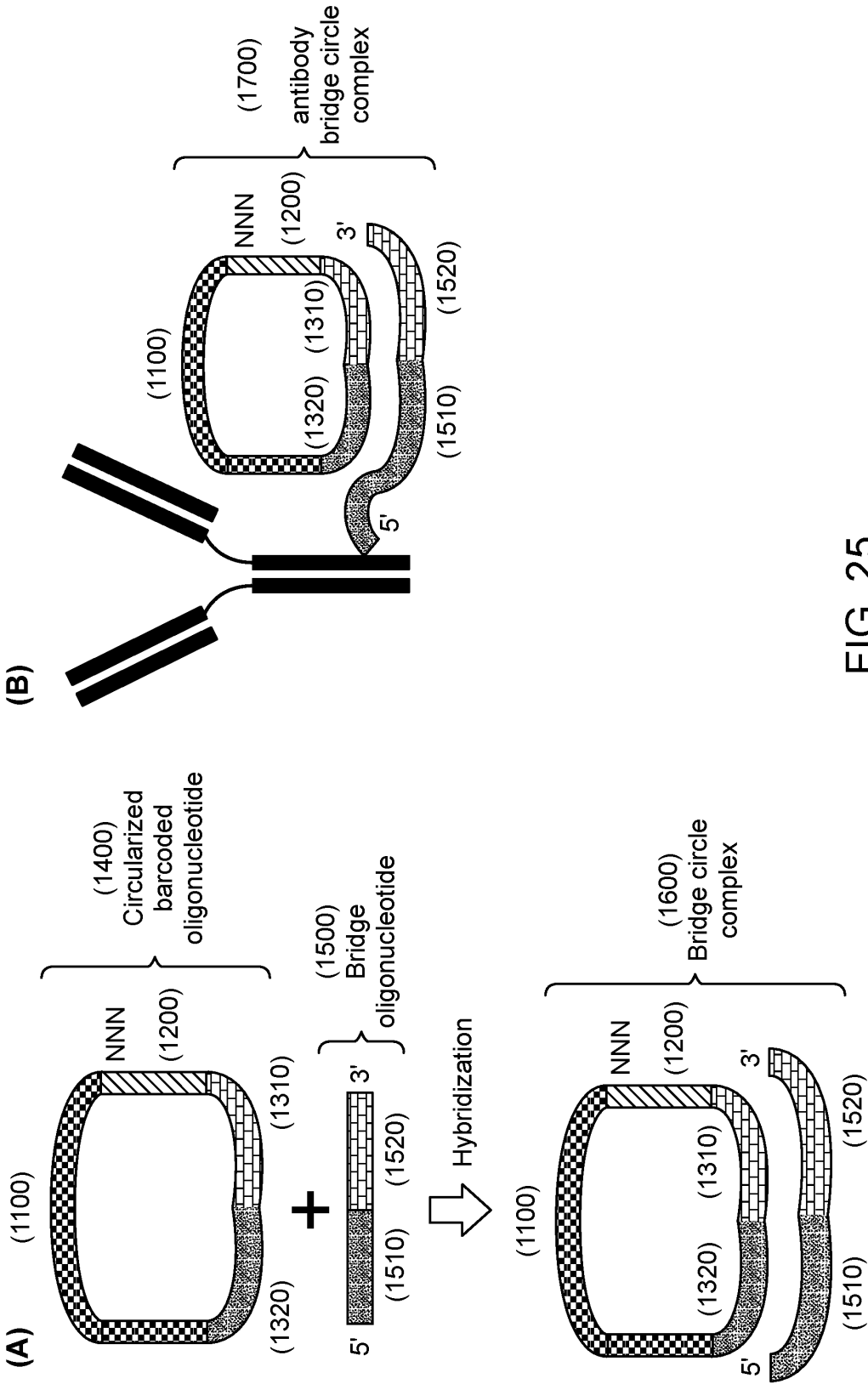


FIG. 25

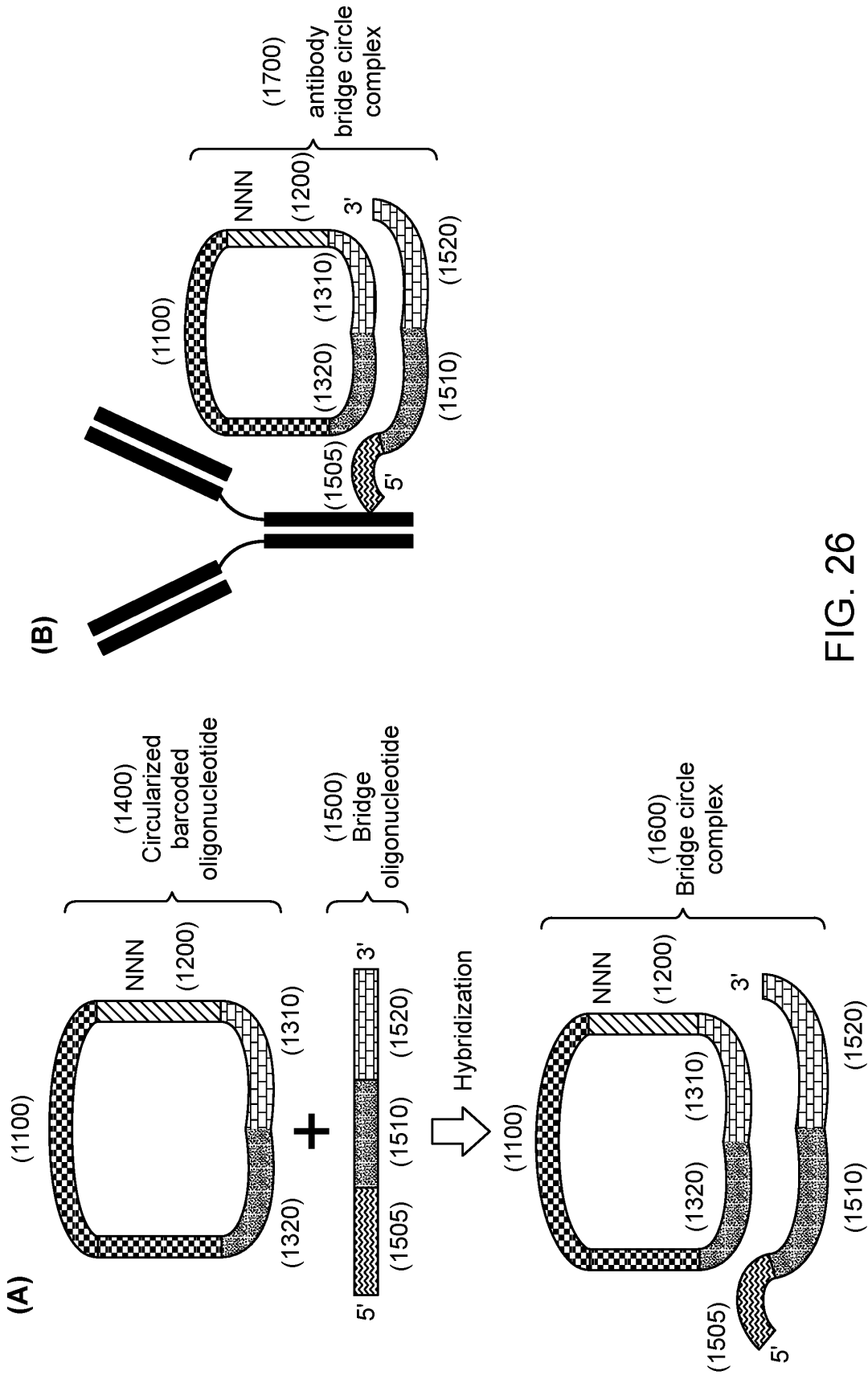


FIG. 26

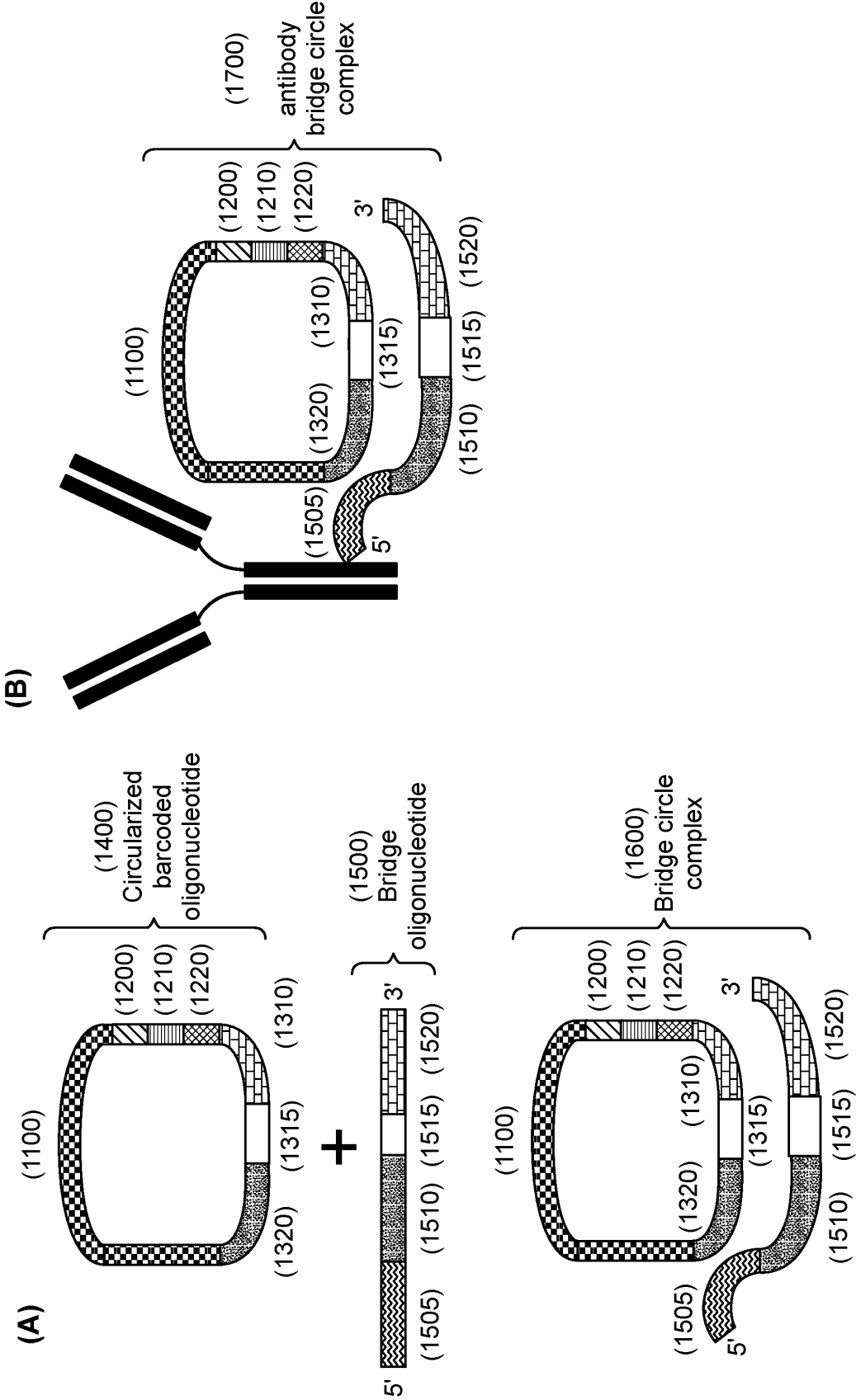


FIG. 27

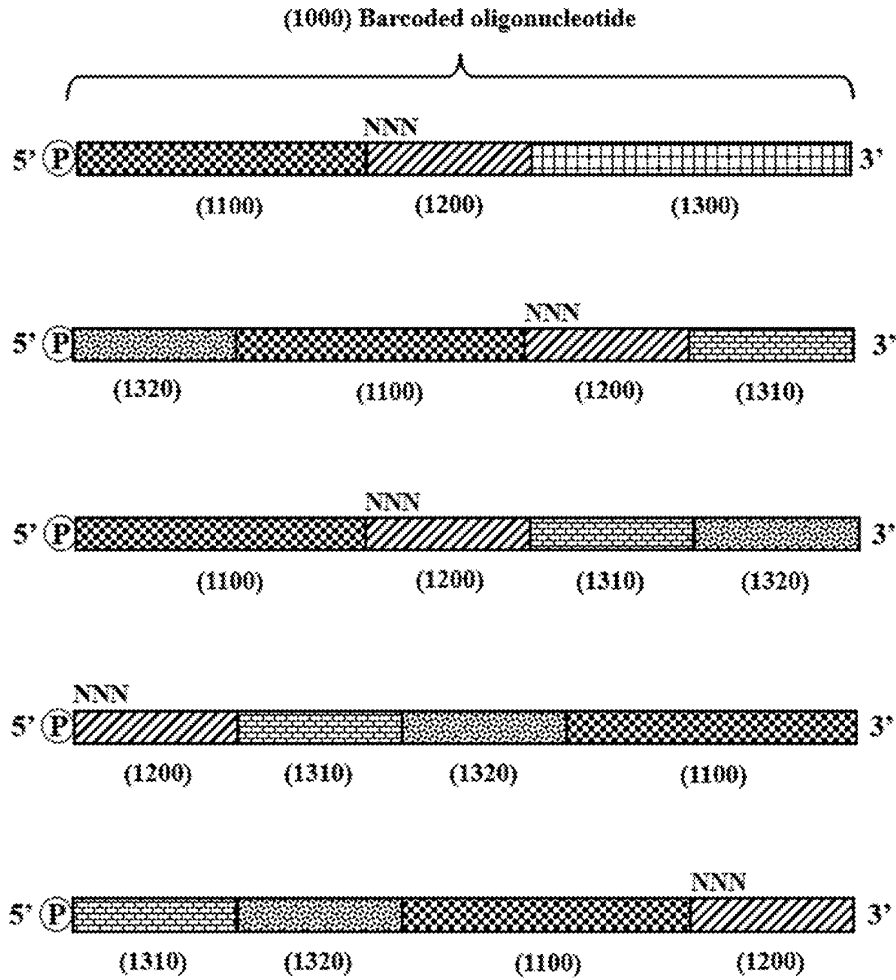


FIG. 28

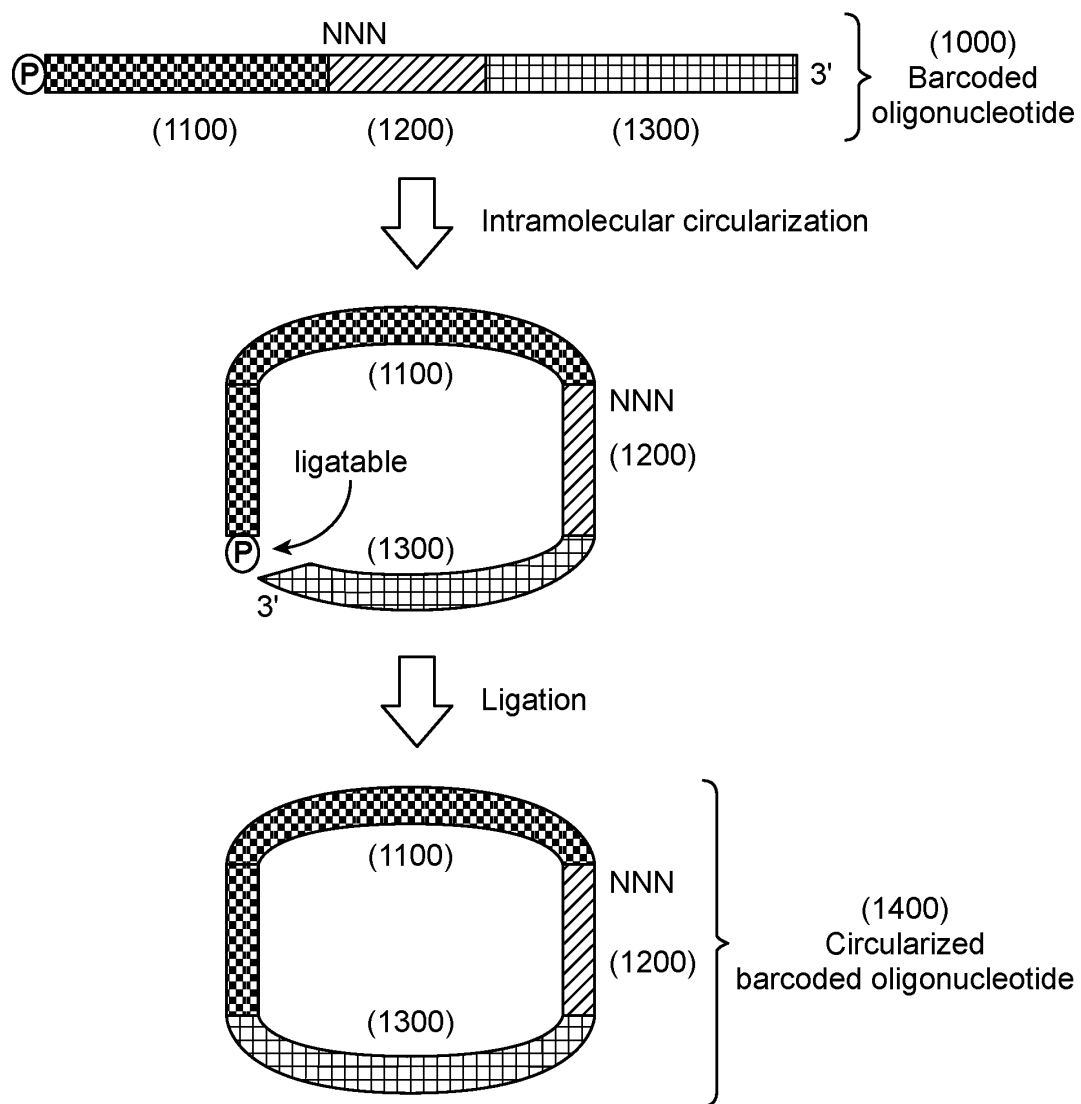


FIG. 29

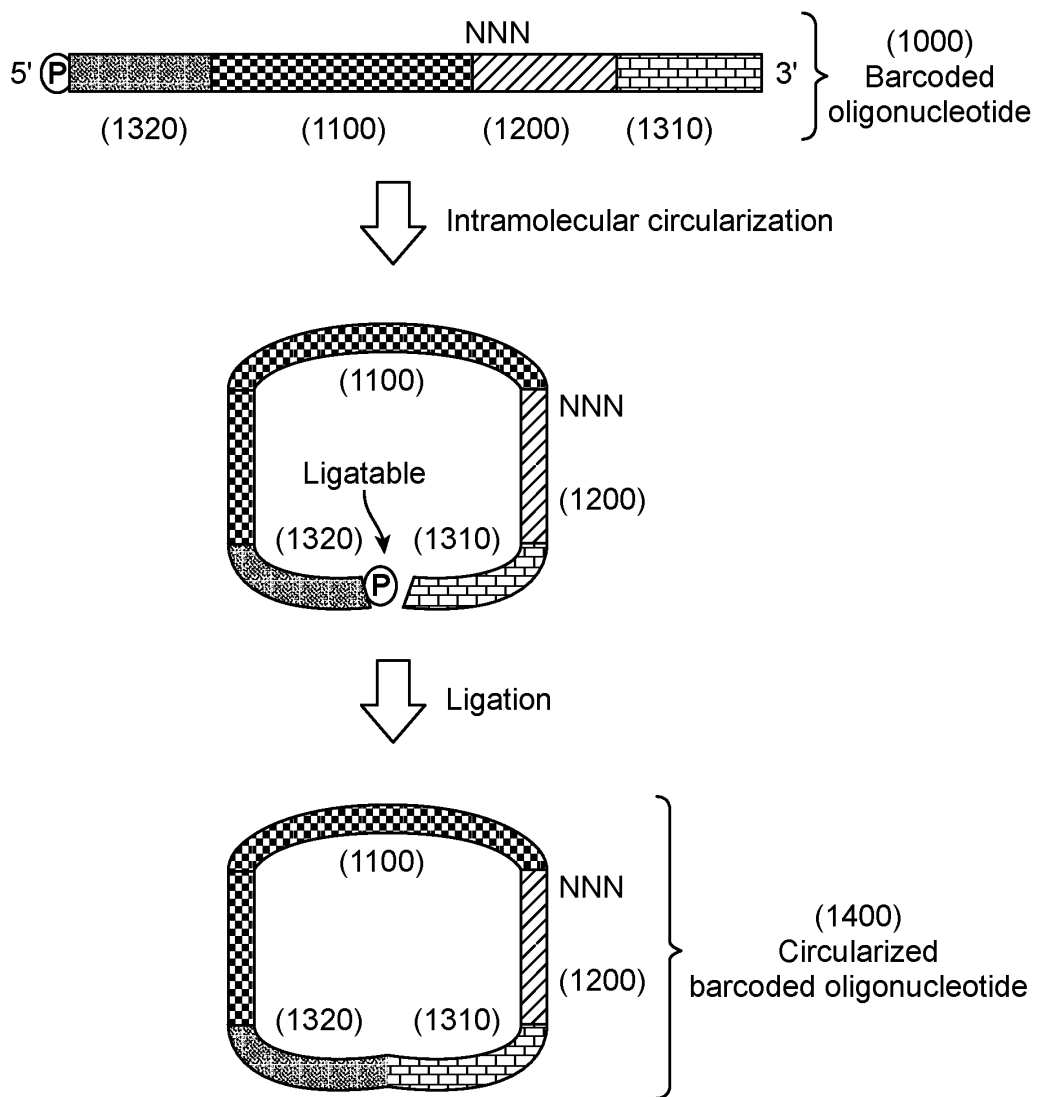


FIG. 30

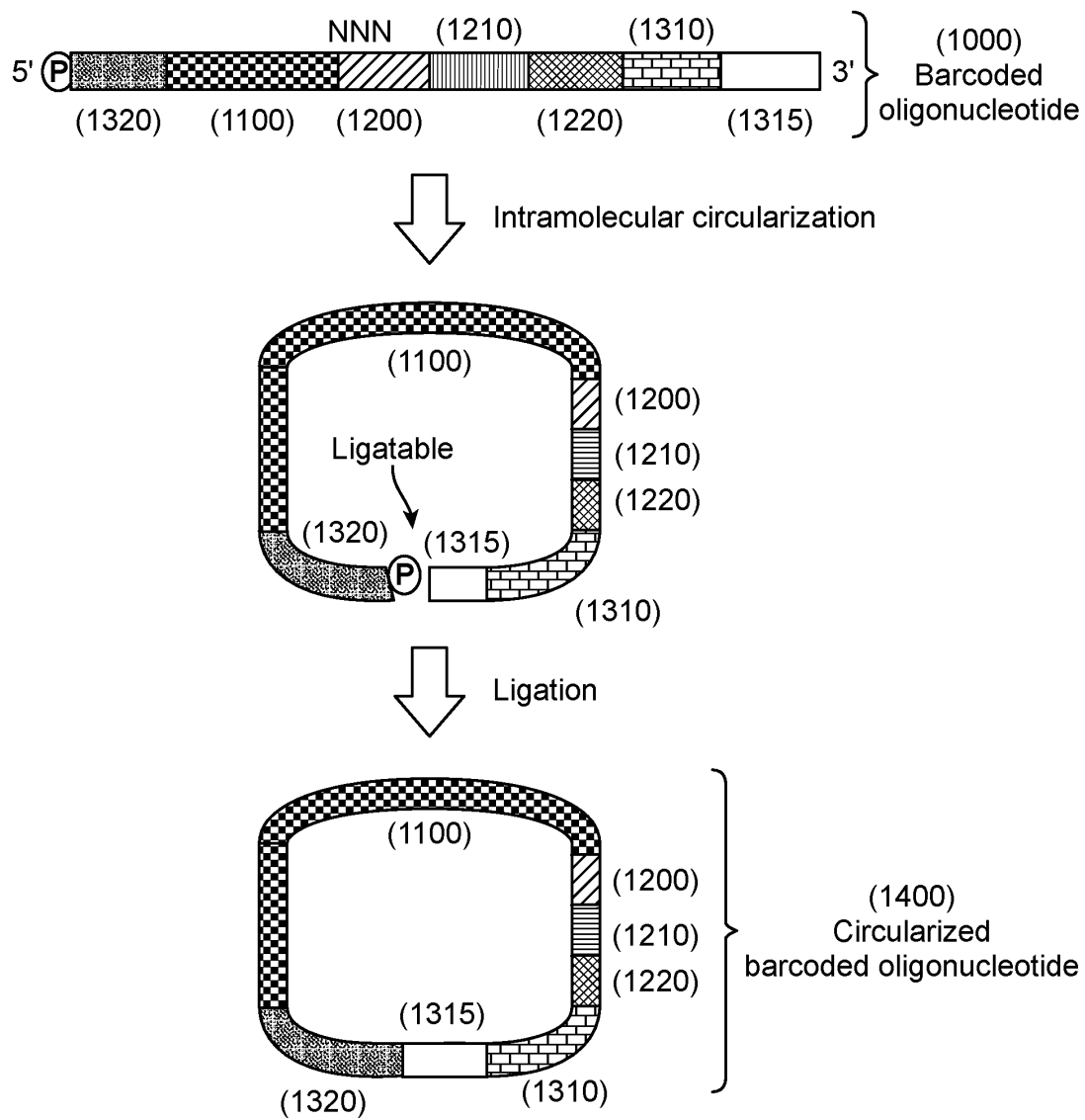


FIG. 31

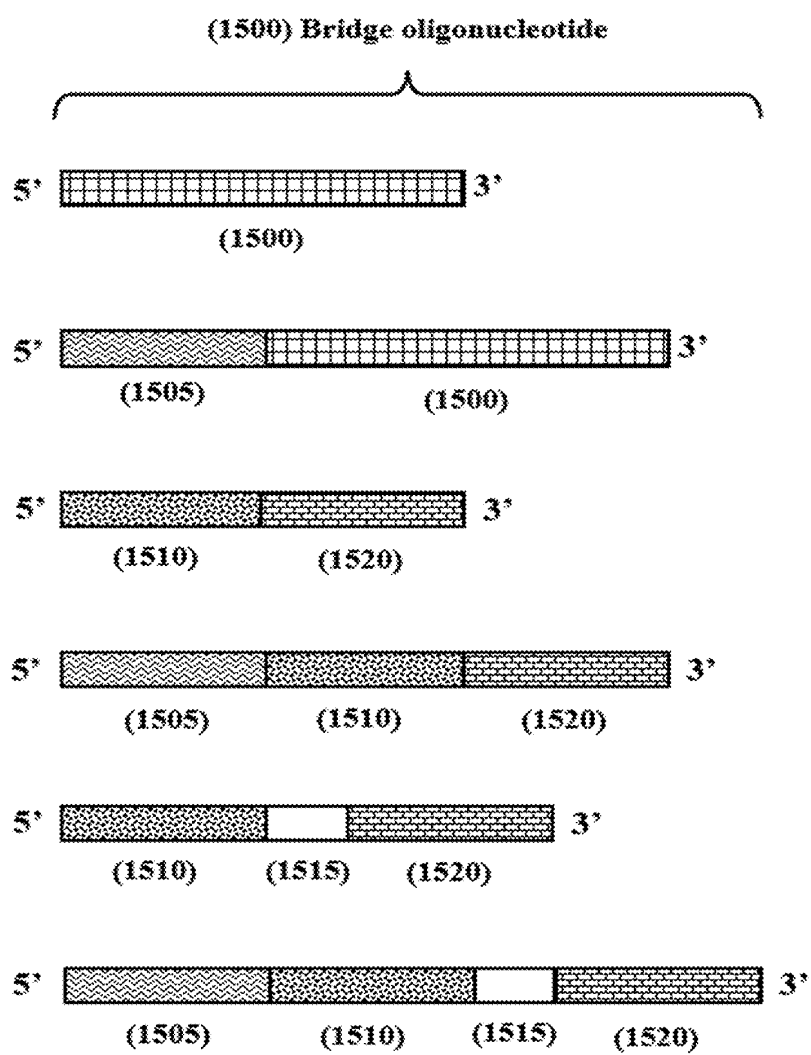


FIG. 32

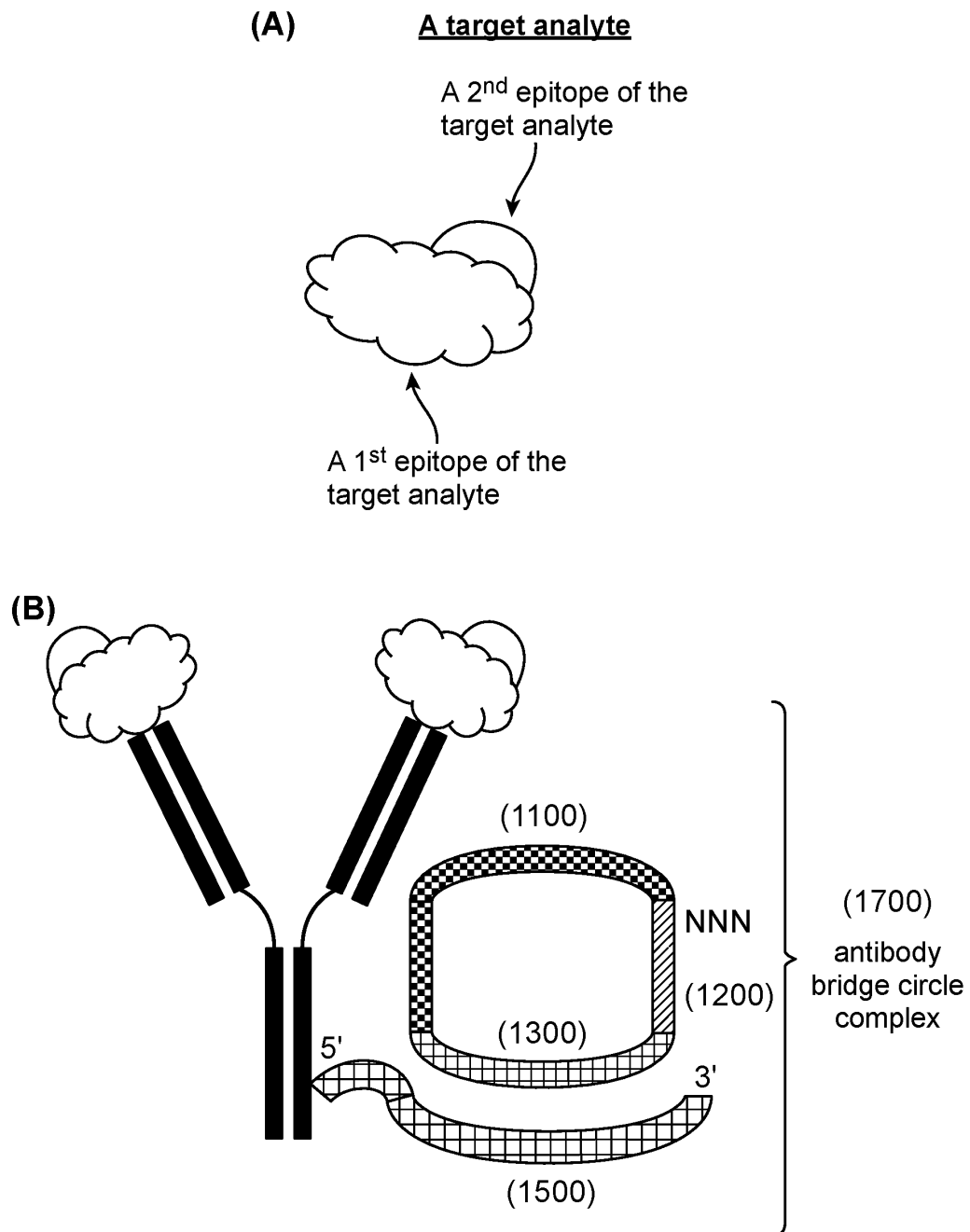
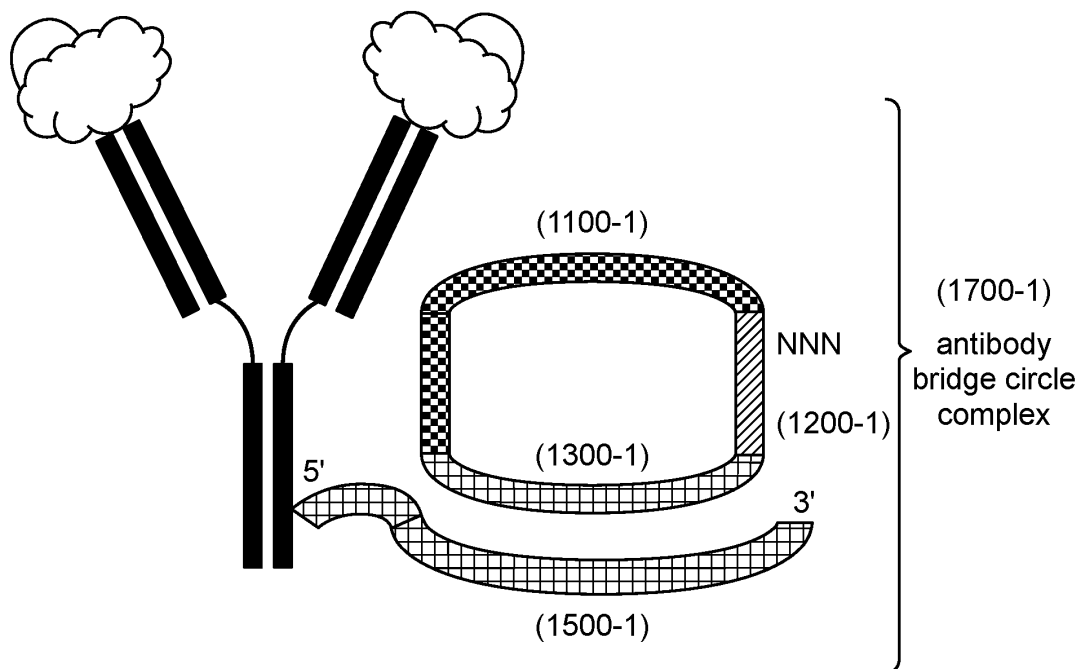


FIG. 33

(A)



(B)

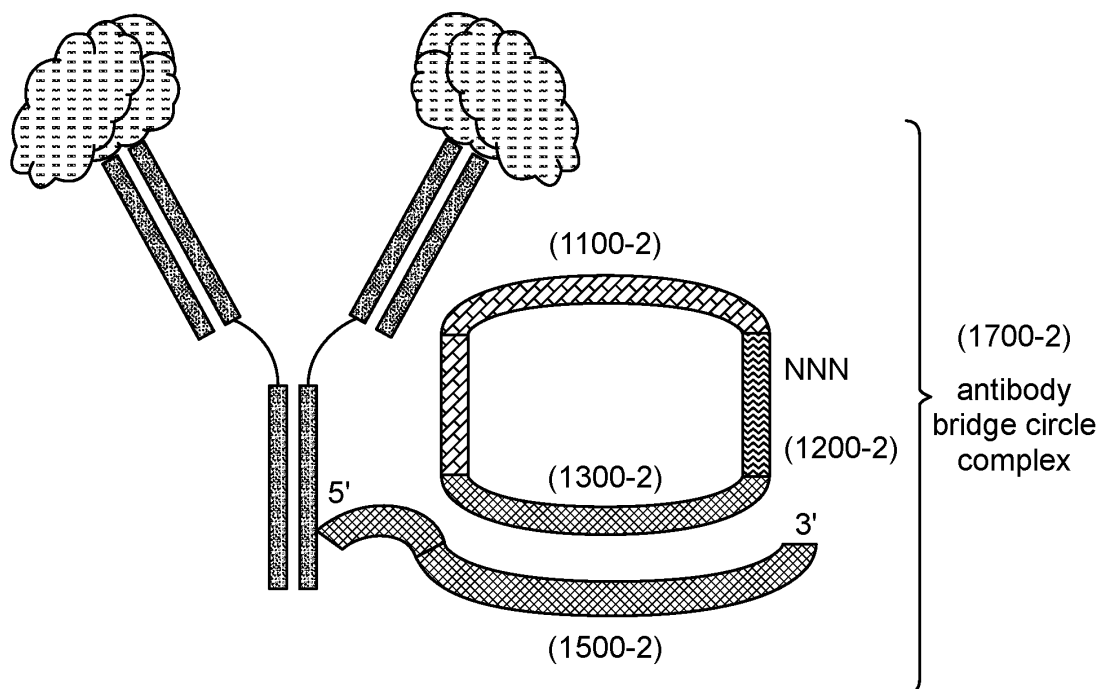


FIG. 34

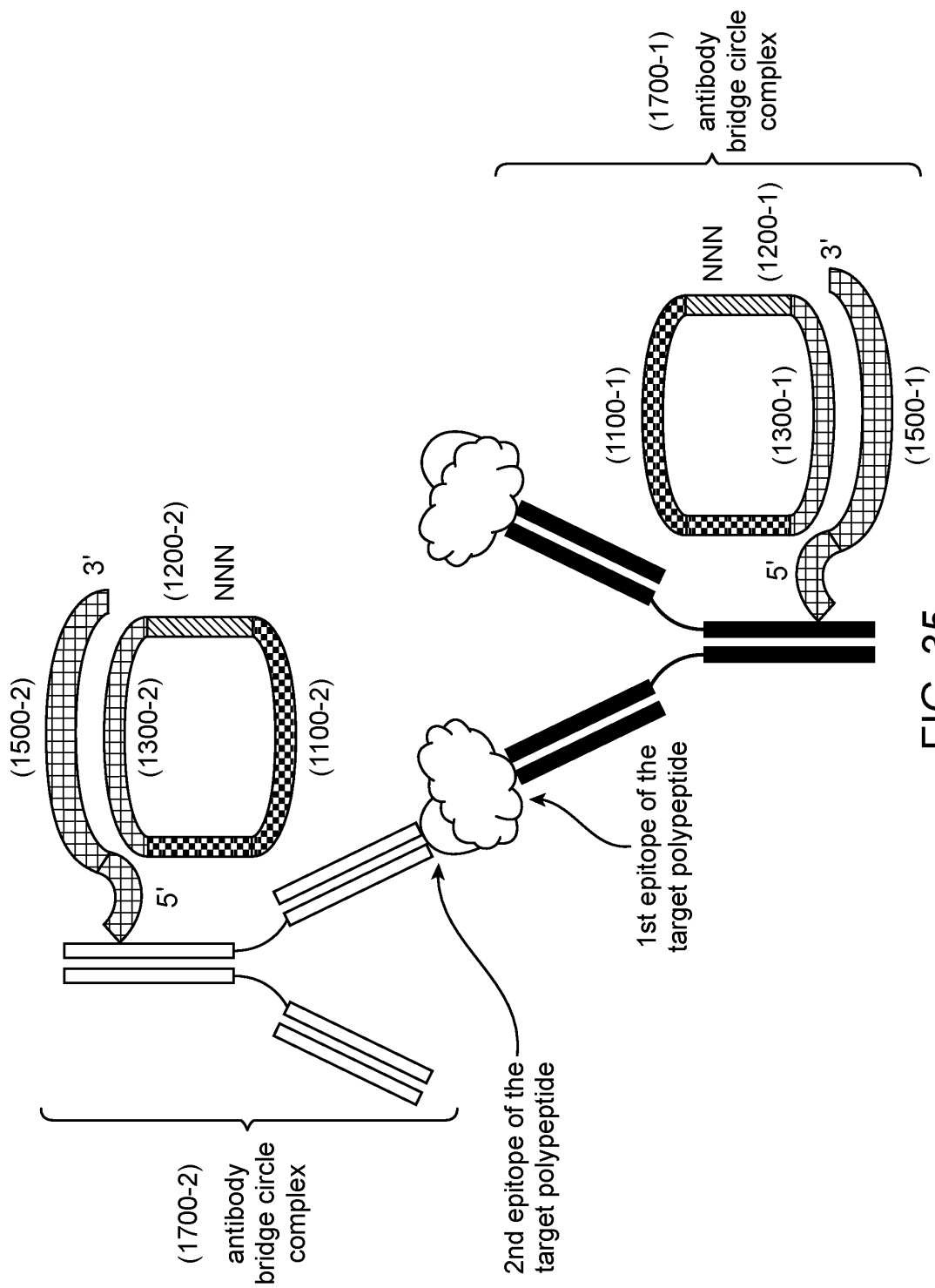
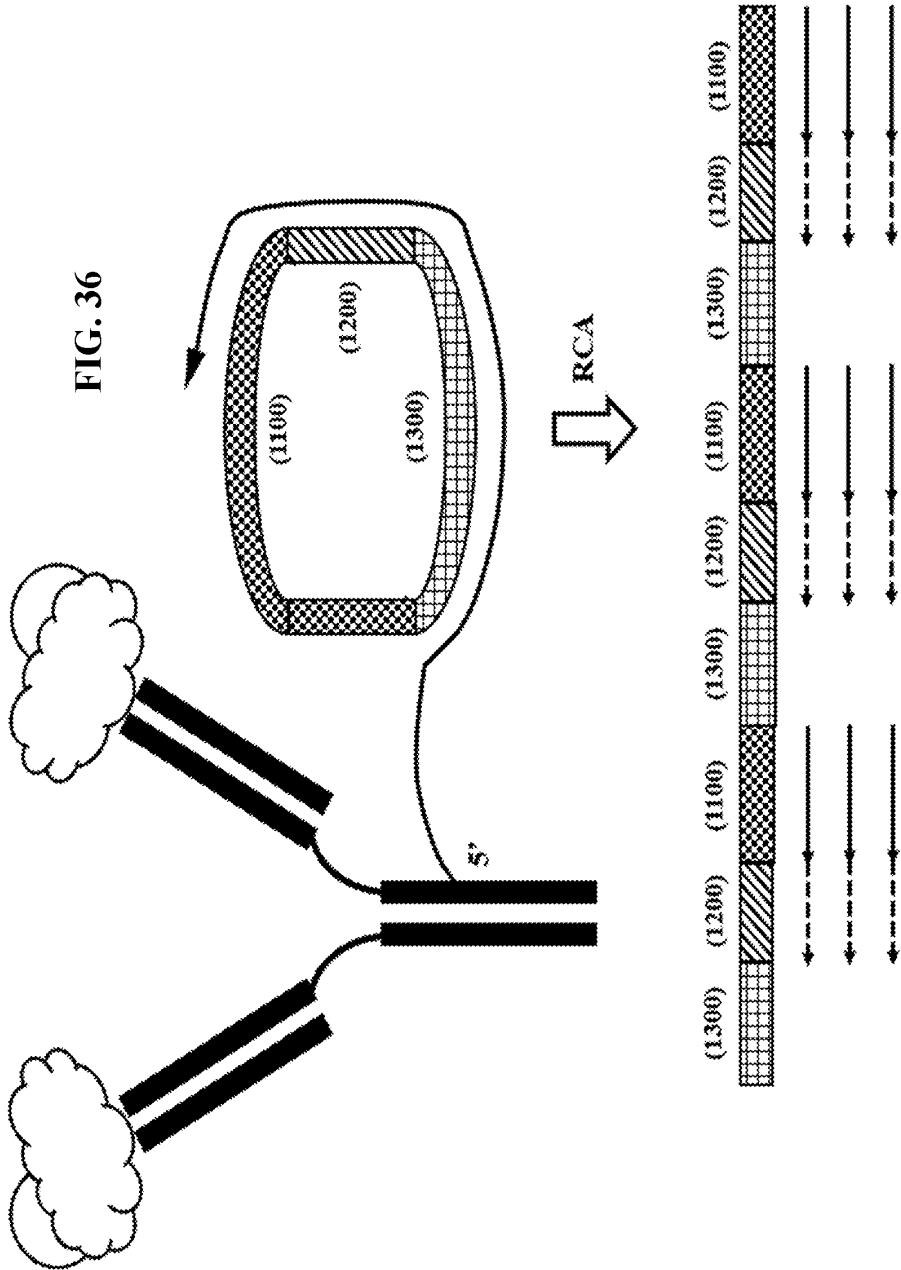
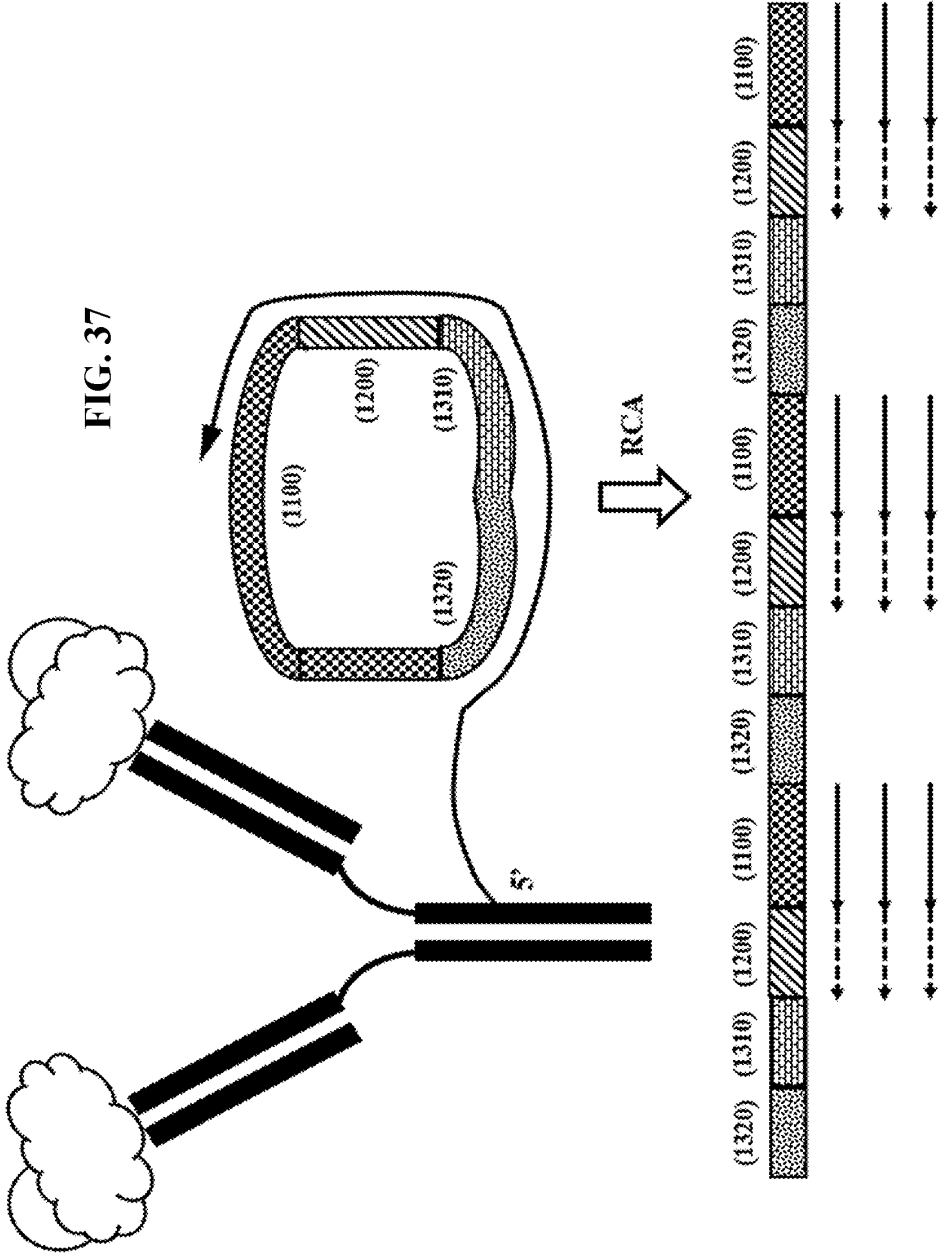


FIG. 35





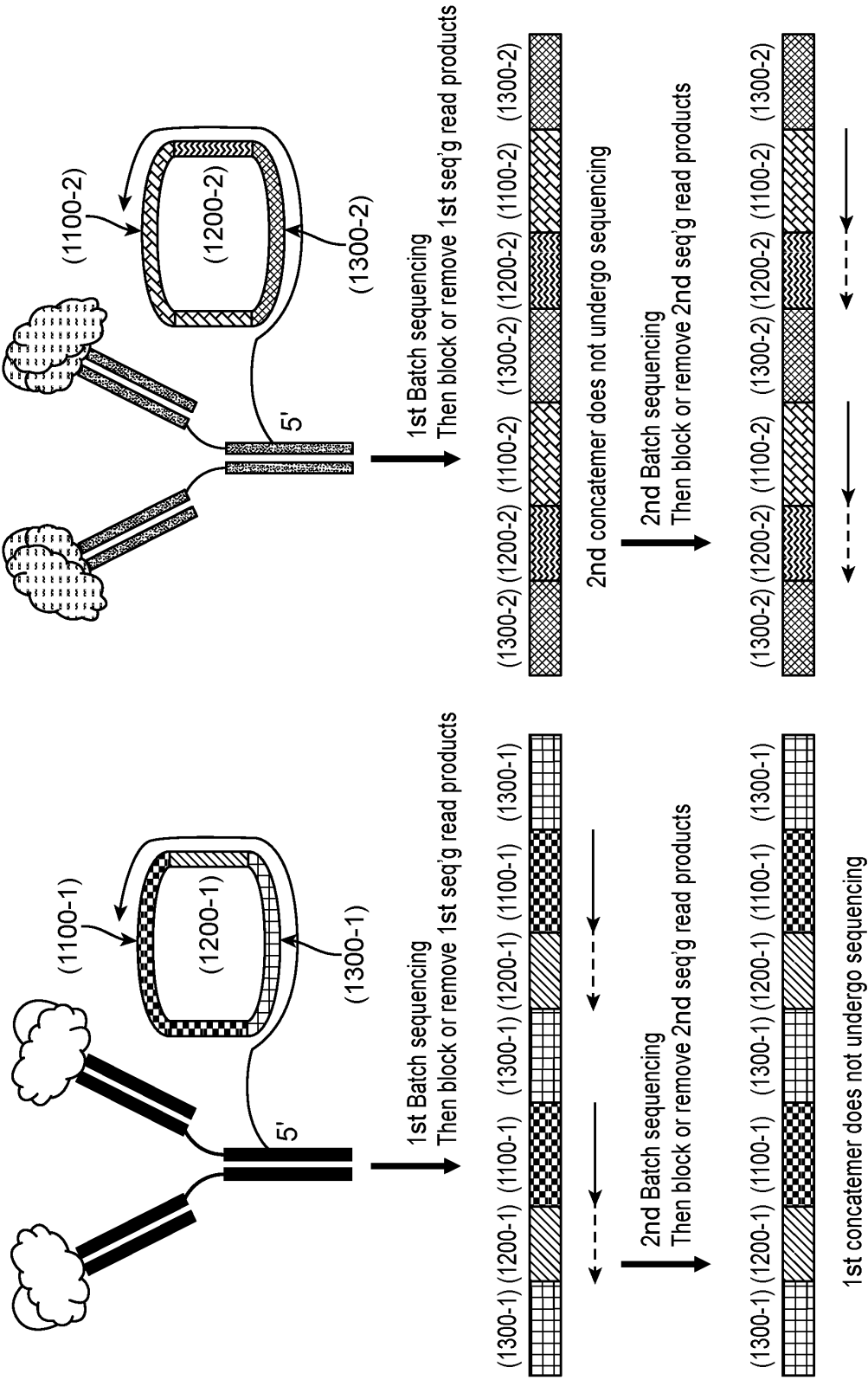


FIG. 38

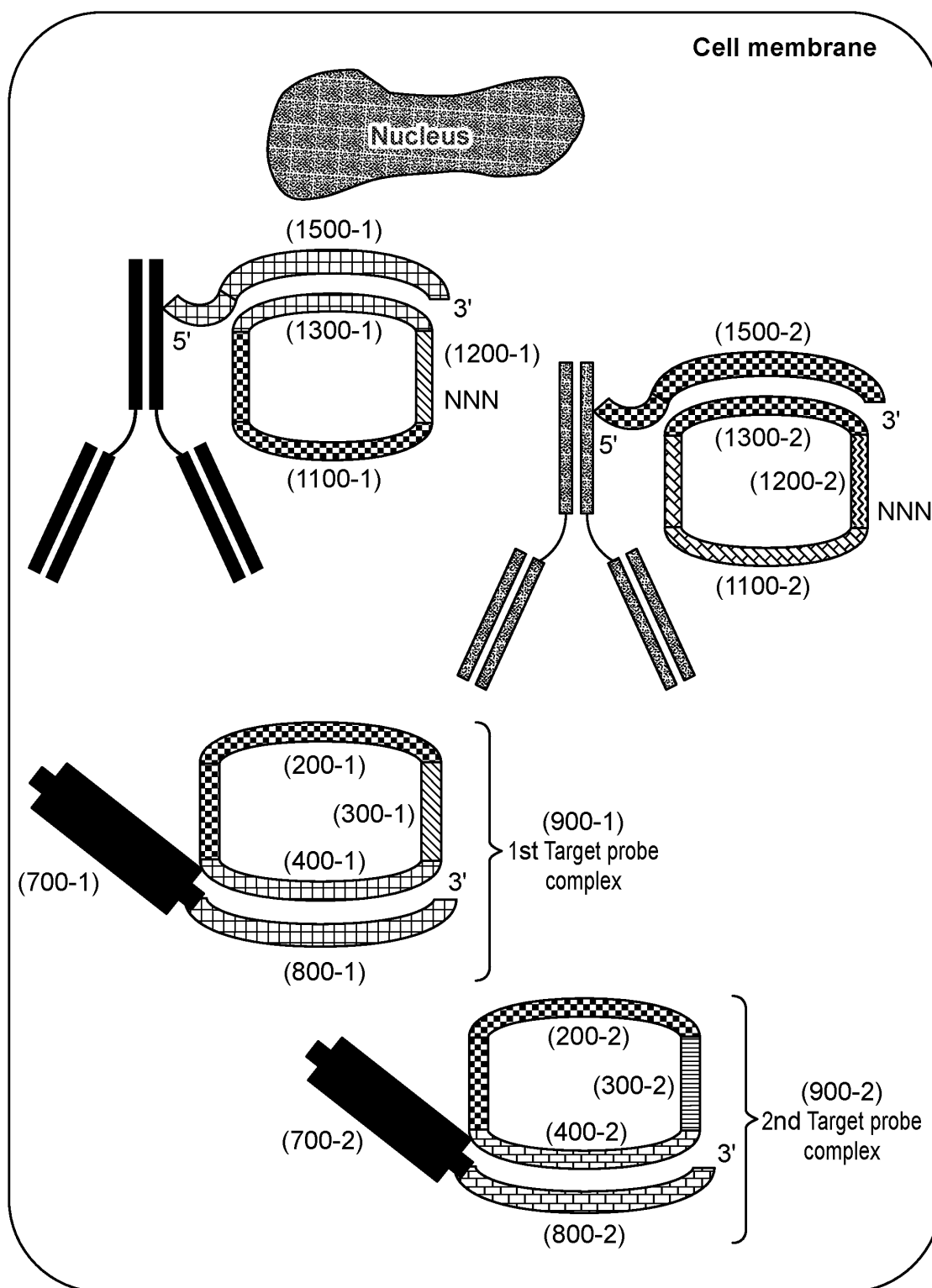


FIG. 39

SUBSTITUTE SHEET (RULE 26)

	Base position in a target barcode (5' to 3' direction)											
	1	2	3	4	5	6	7	8	9	10	11	12
n-th barcode Target analyte												
1st barcode Histone	C red	T green	A red	C red	C red	C red	G green	T green	G green	G green	T green	G green
2nd barcode Tubulin	T green	C red	A red	A red	A red	A red	T green	G green	G green	G green	G green	T green
3rd barcode HMOX1 (cytosol)	C red	A red	T green	C red	A red	C red	T green	G green	T green	G green	G green	G green
4th barcode C Myc (nucleus)	C red	C red	C red	T green	C red	A red	G green	T green	G green	T green	G green	G green
5th barcode GM130 (Golgi)	A red	A red	A red	C red	C red	T green	T green	G green	G green	T green	T green	T green

FIG. 40

Target analytes and Localization	Target Barcodes
C-myc (Nucleus)	T <u>C</u> AAAAATGGGGT
Tubulin (Cytosol)	C <u>T</u> ACCCCGTGGTG

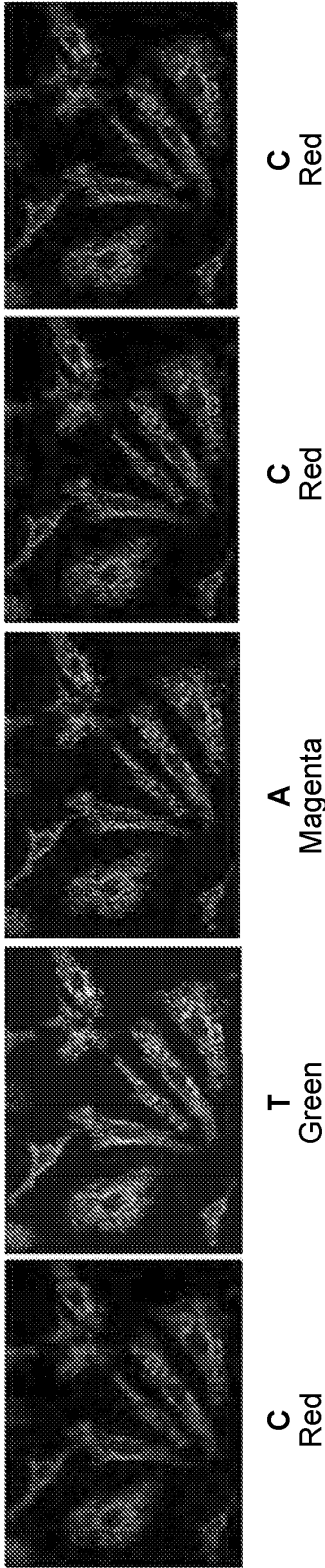
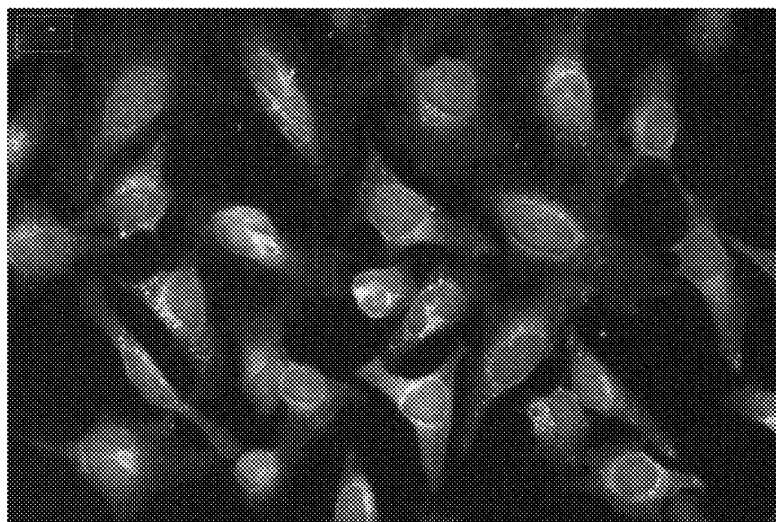
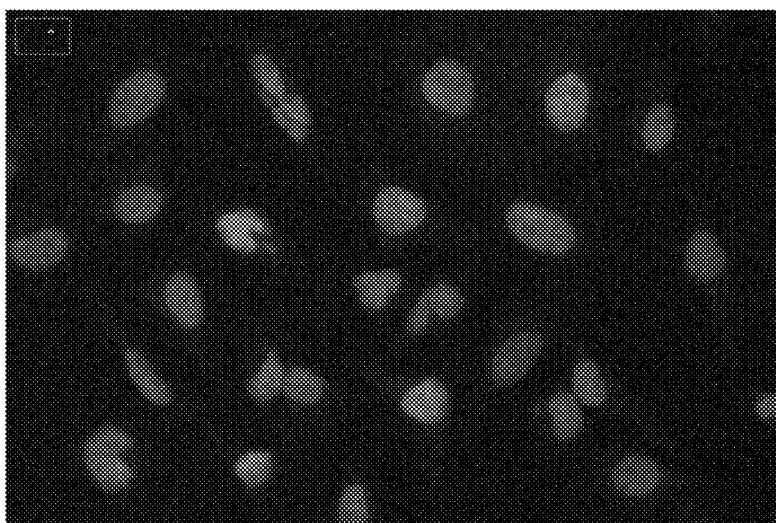


FIG. 41

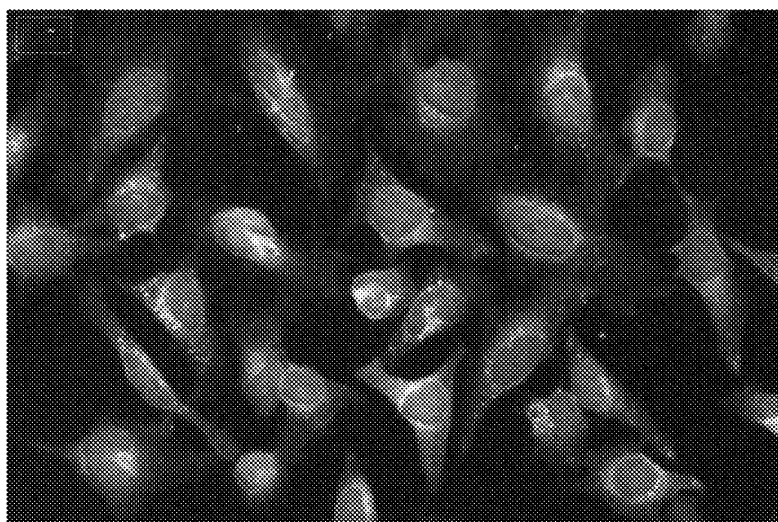


Histone (red) and Tubulin (green)

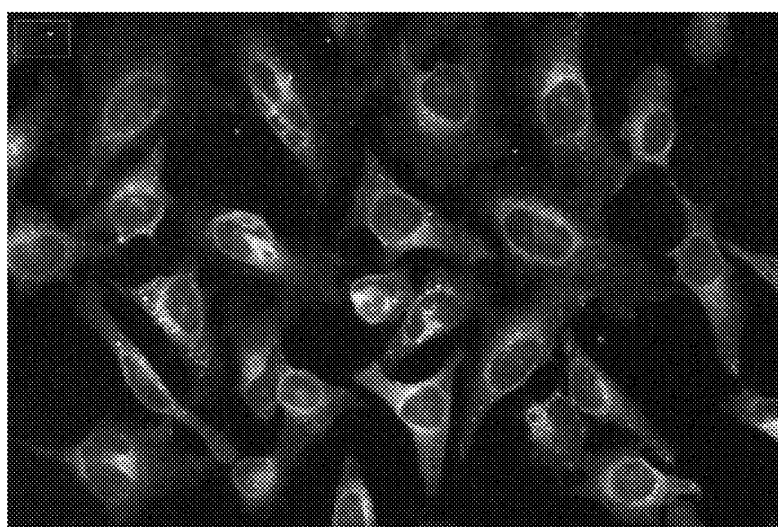


Histone (red)

FIG. 42A

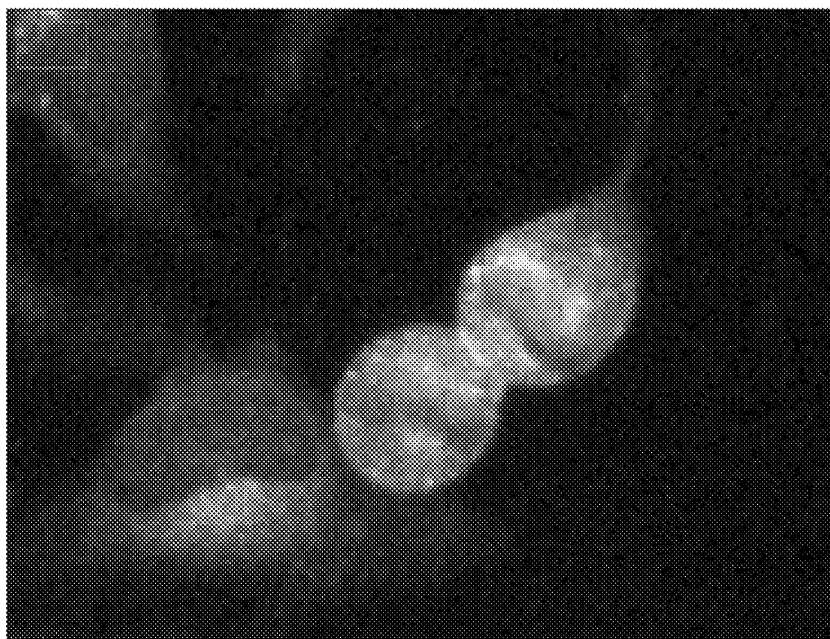


Histone (red) and Tubulin (green)



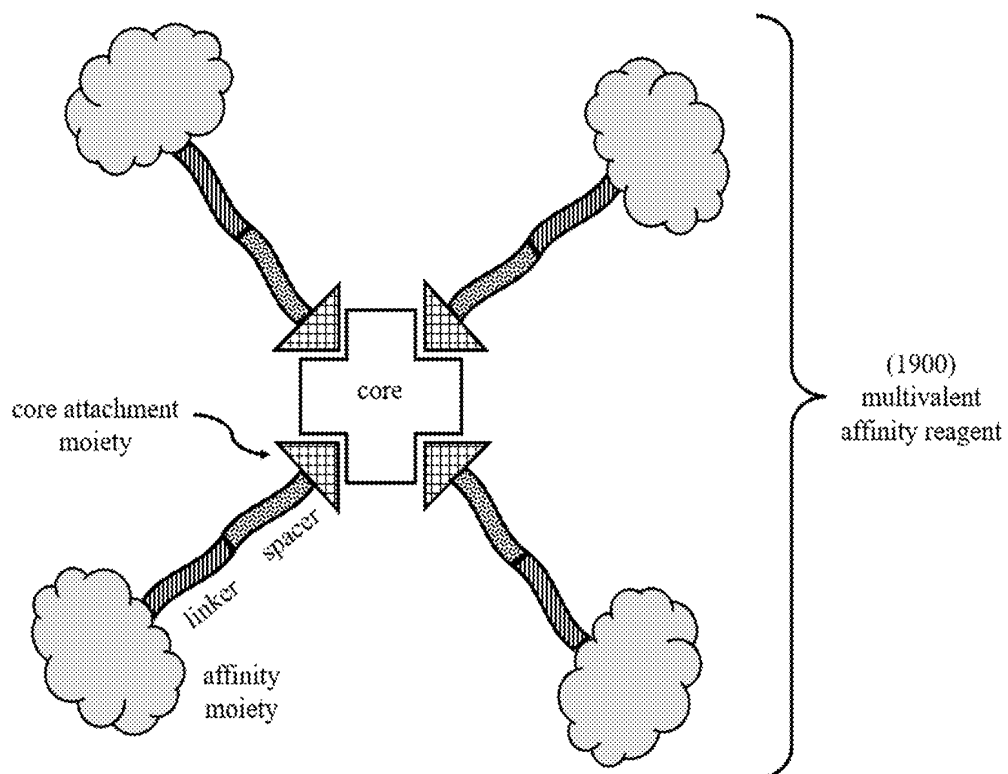
Tubulin (green)

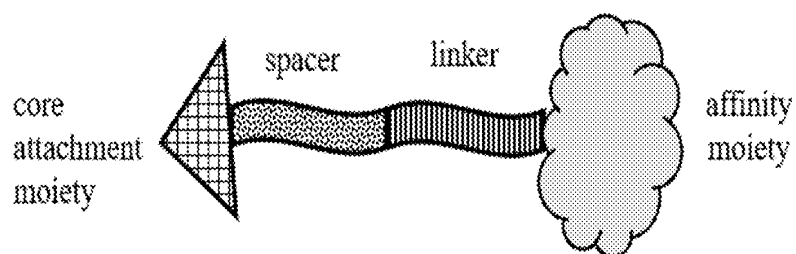
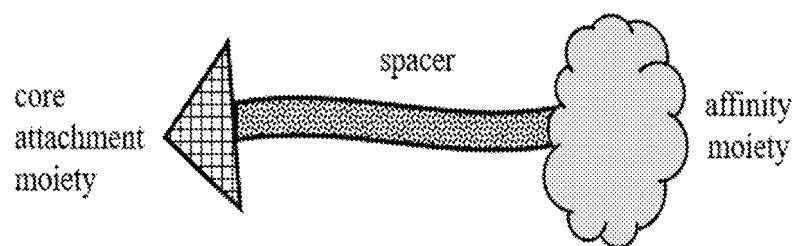
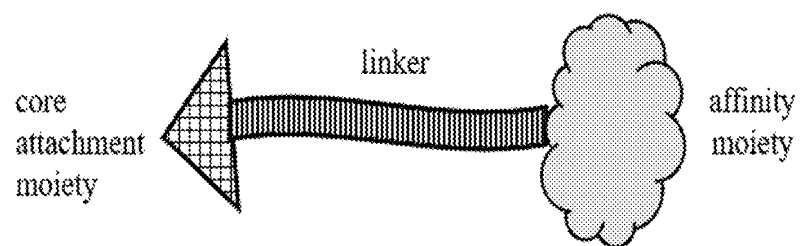
FIG. 42B



Histone (red) and Tubulin (green)

FIG. 43

**FIG. 44A**

**FIG. 44B****FIG. 44C****FIG. 44D**

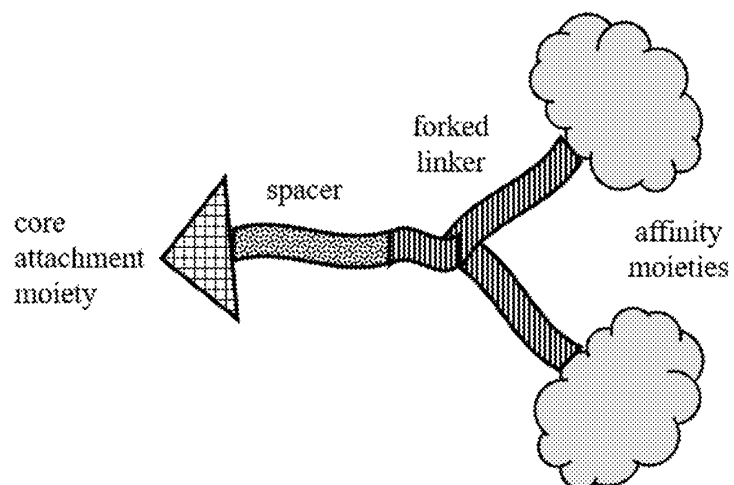


FIG. 44E

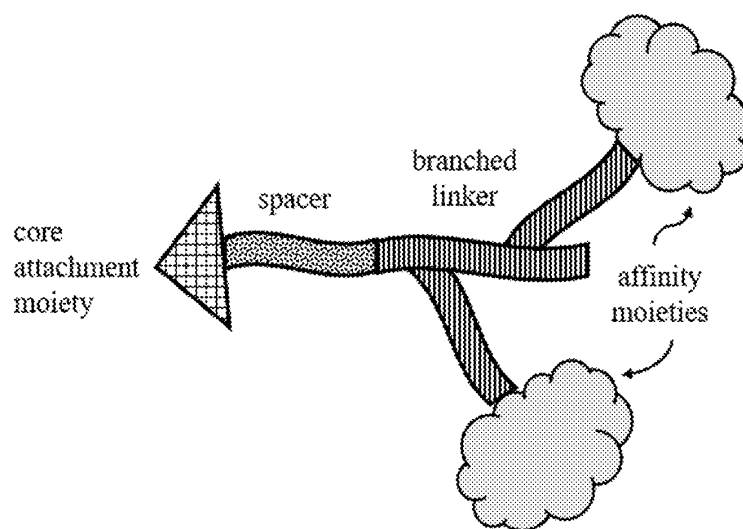


FIG. 44F

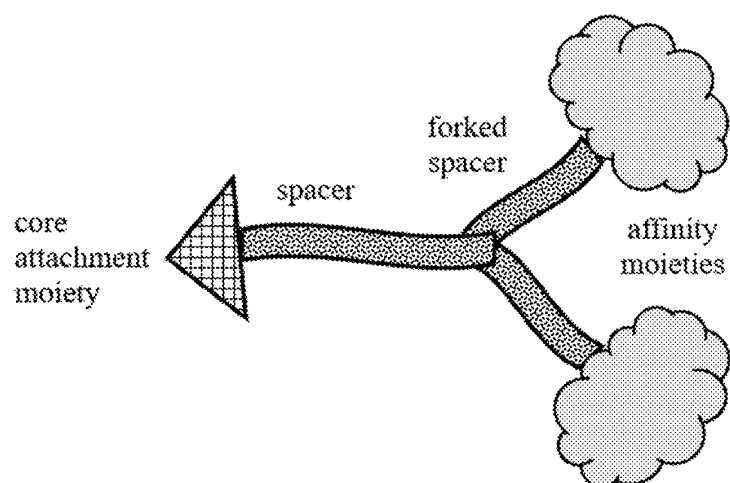


FIG. 44G

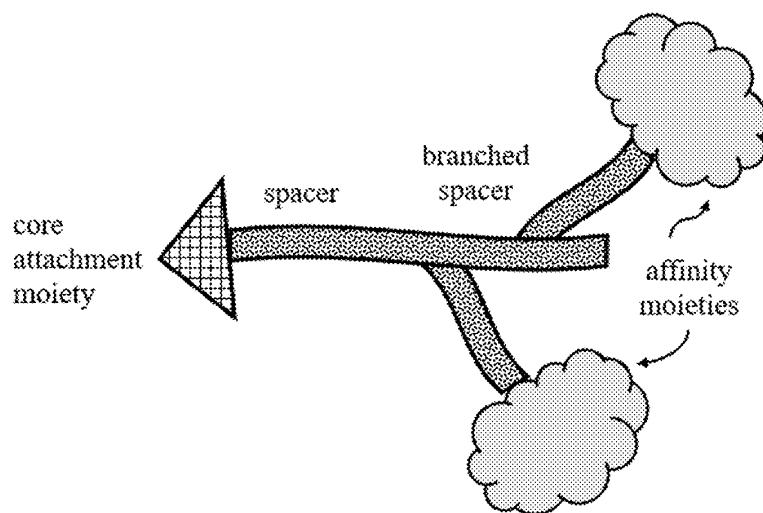


FIG. 44H

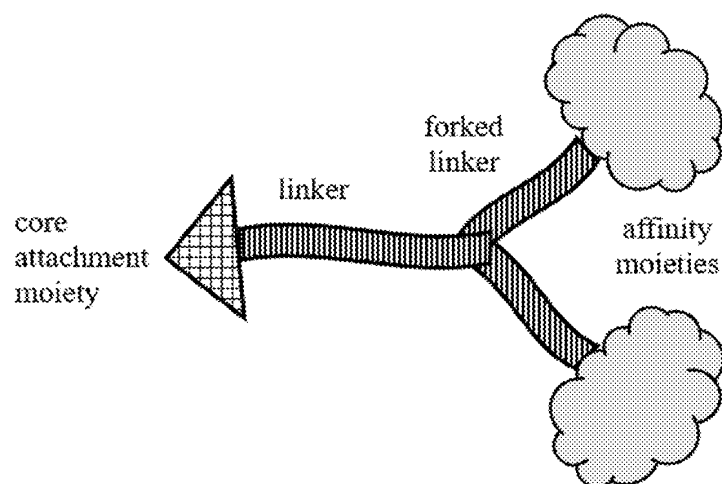


FIG. 44I

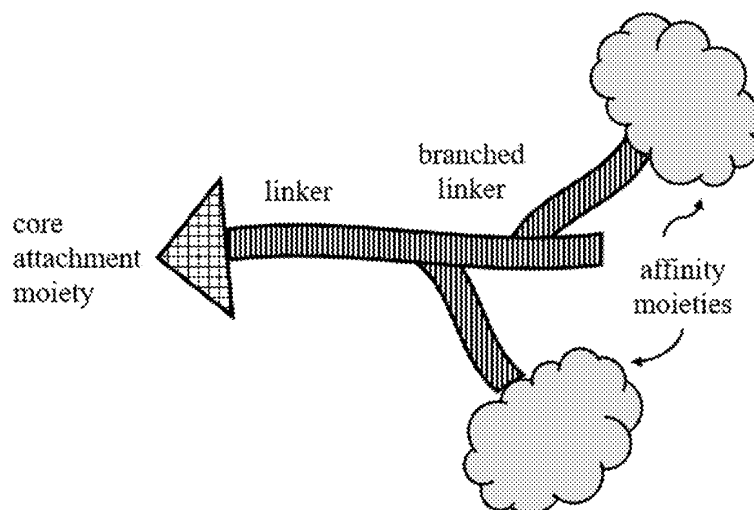


FIG. 44J

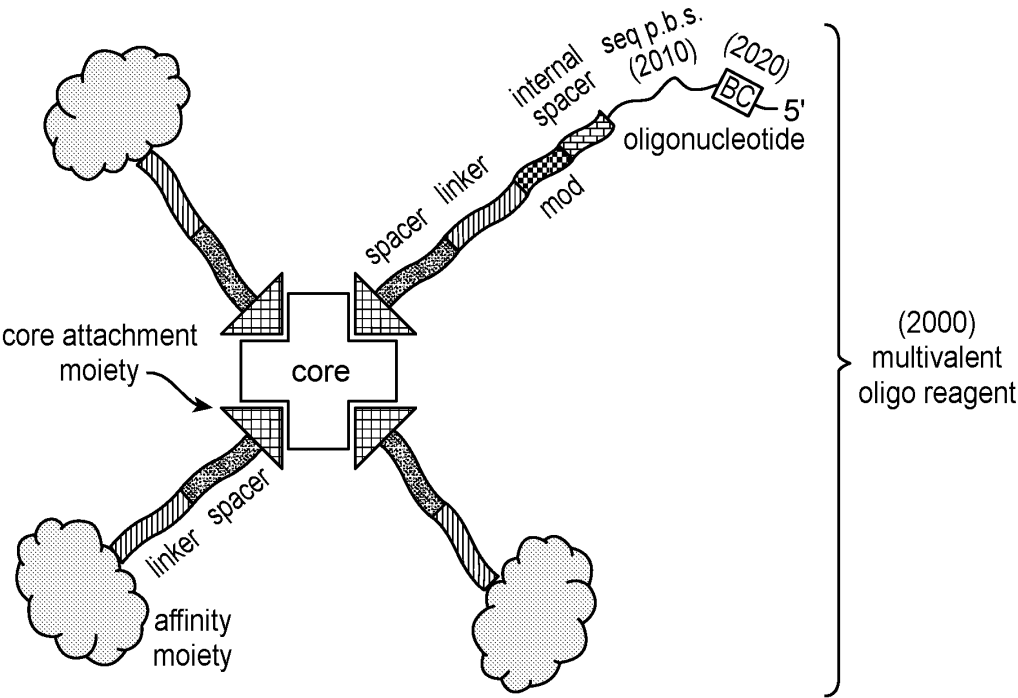


FIG. 45A

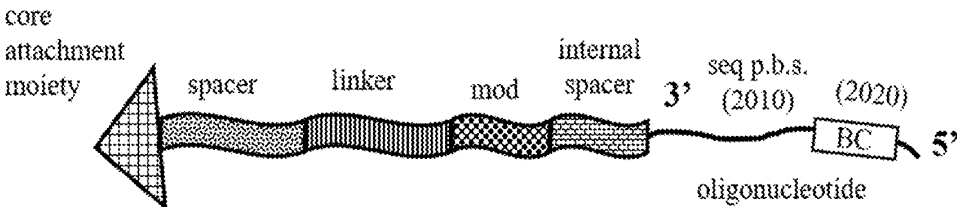


FIG. 45B

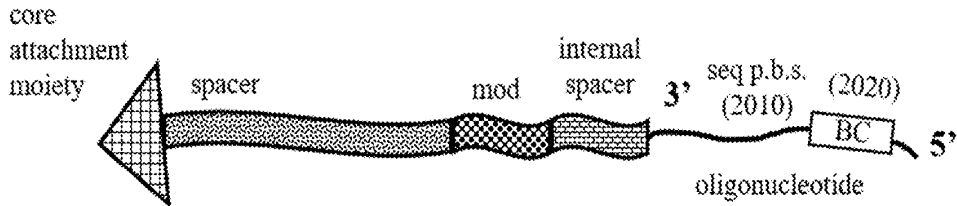


FIG. 45C

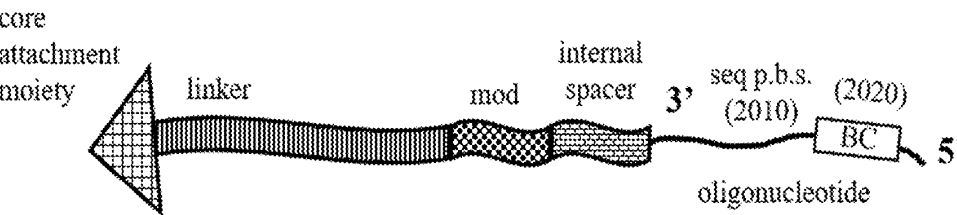


FIG. 45D

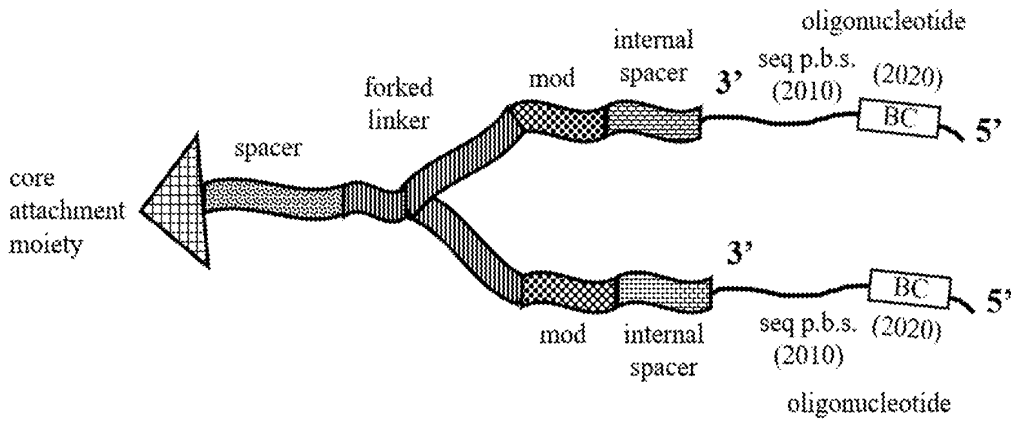


FIG. 45E

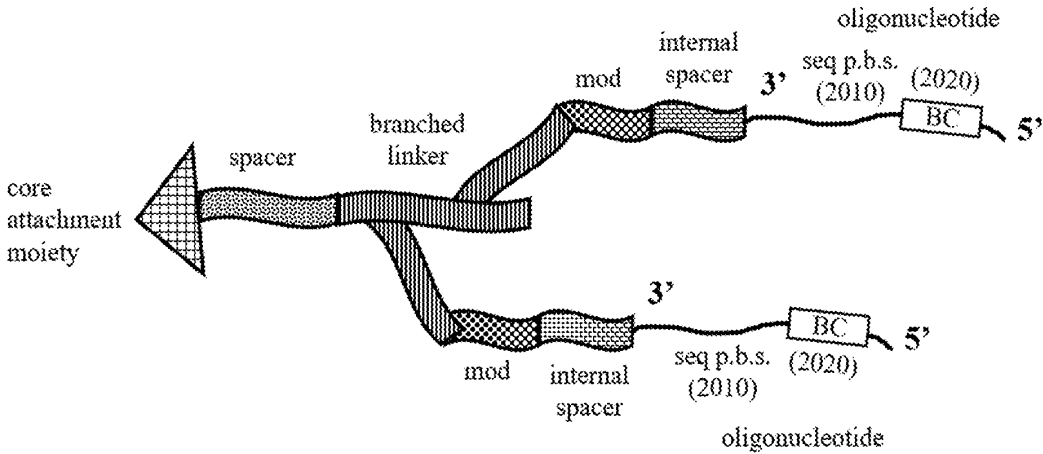


FIG. 45F

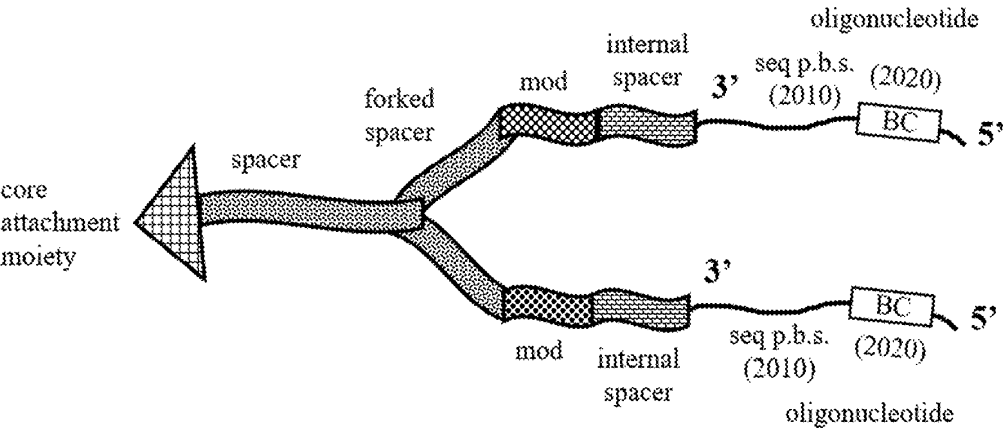


FIG. 45G

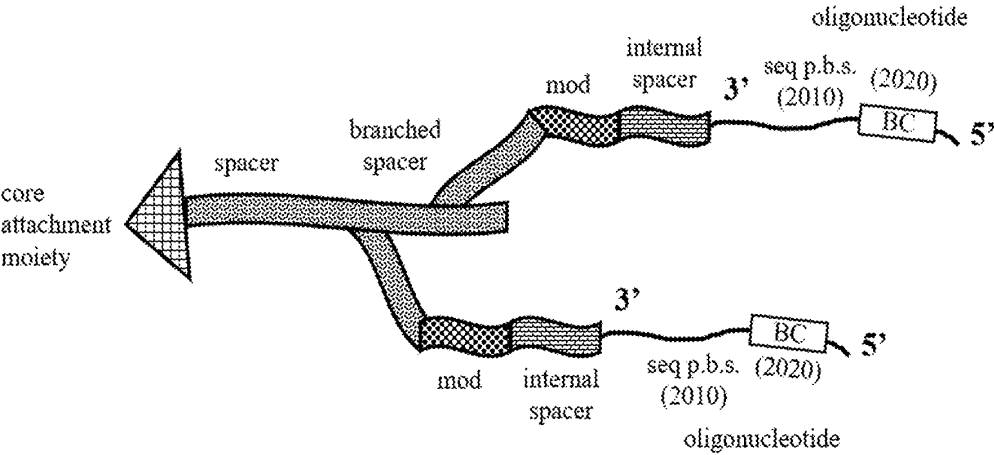


FIG. 45H

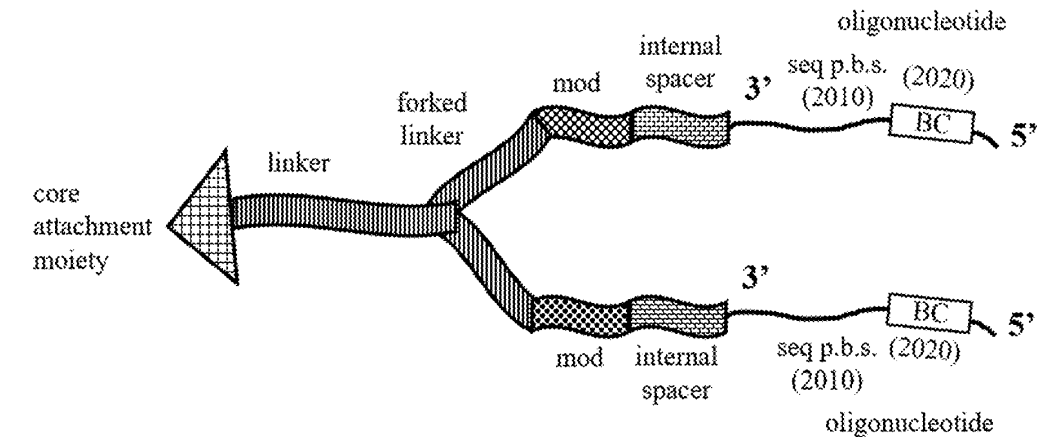


FIG. 45I

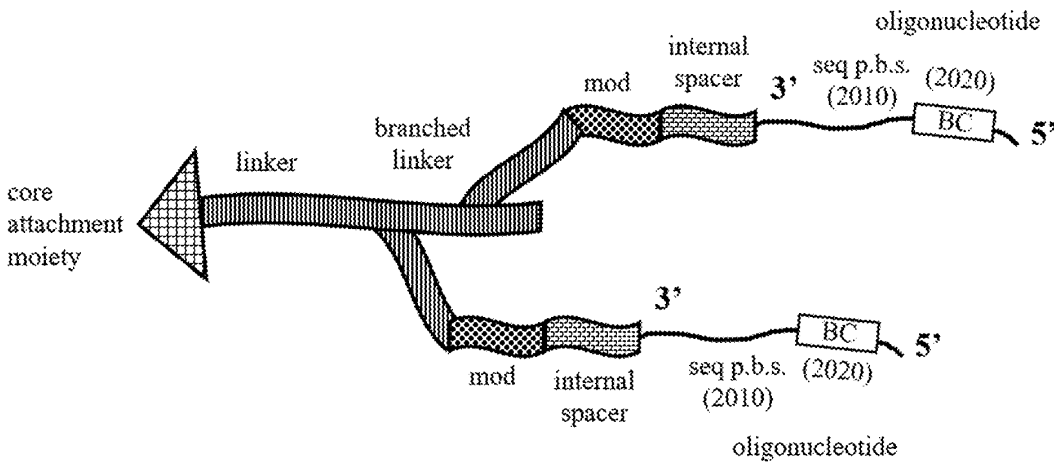


FIG. 45J

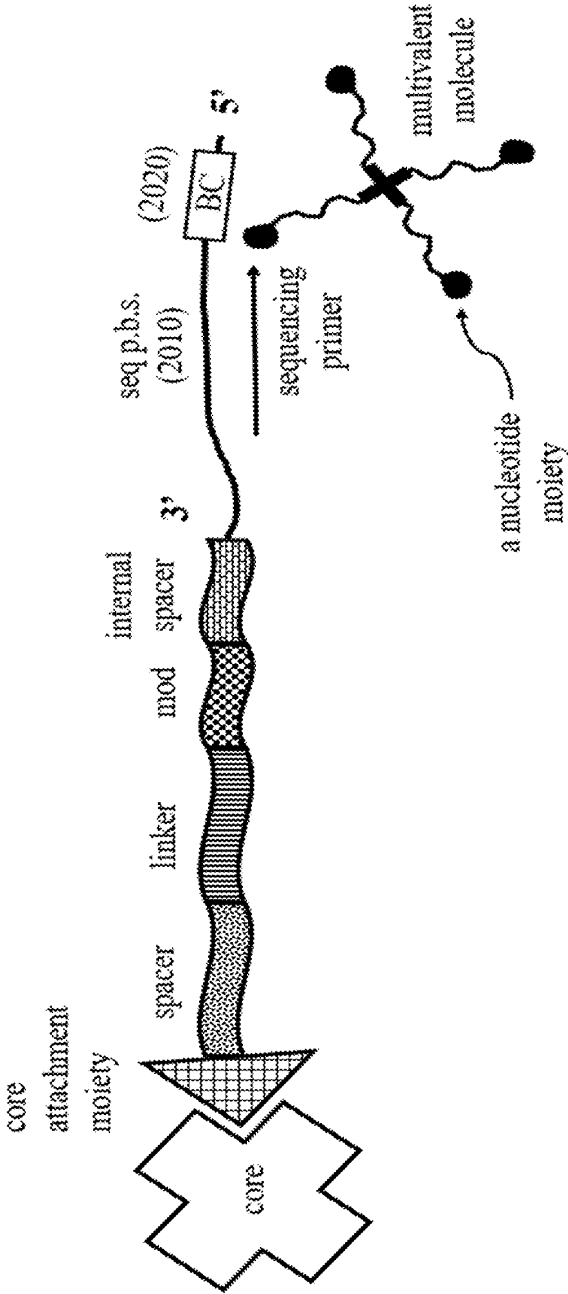


FIG. 45K

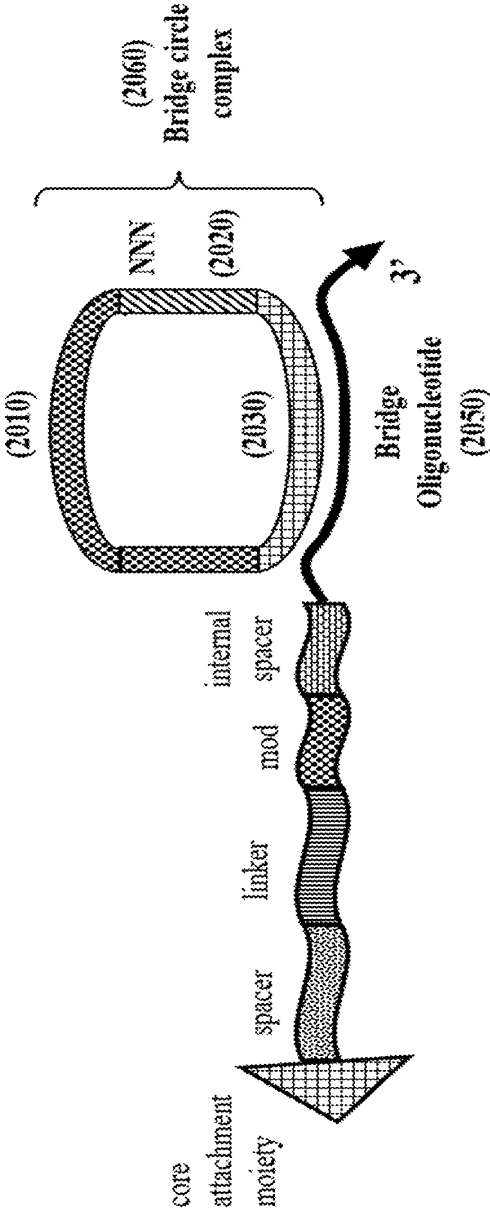
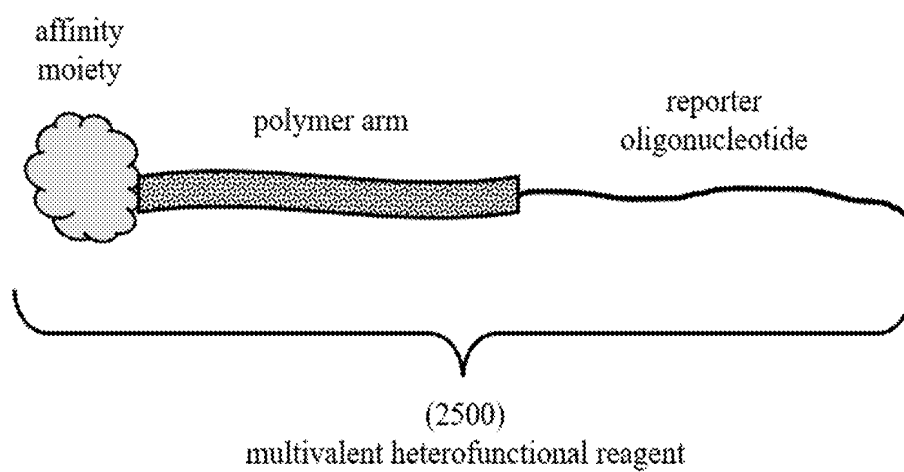


FIG. 45L

**FIG. 46**

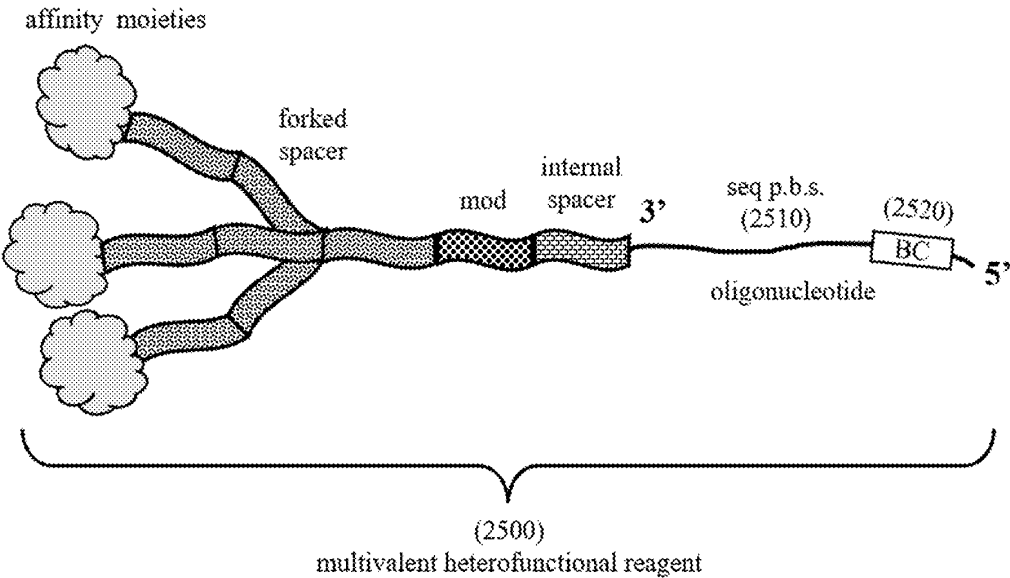


FIG. 47A

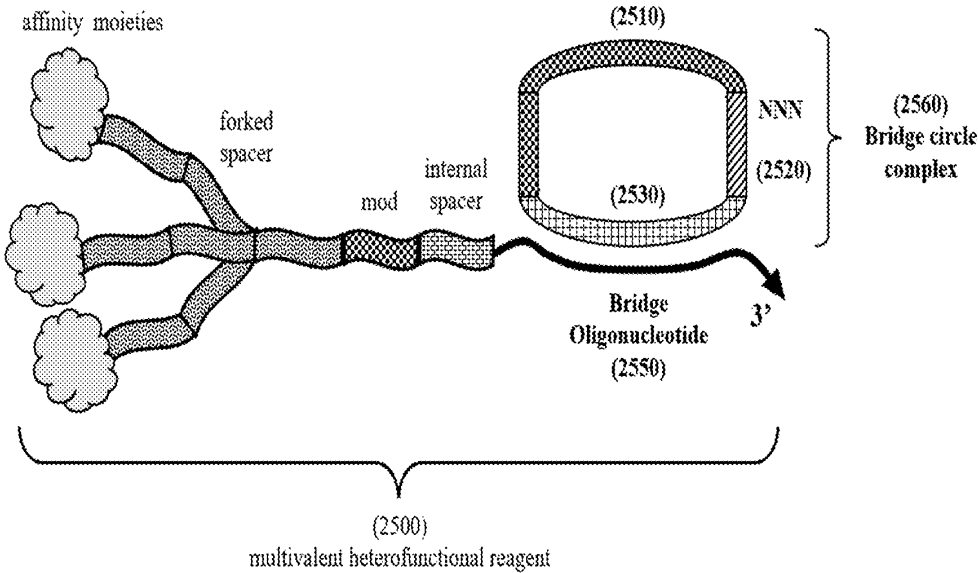


FIG. 47B

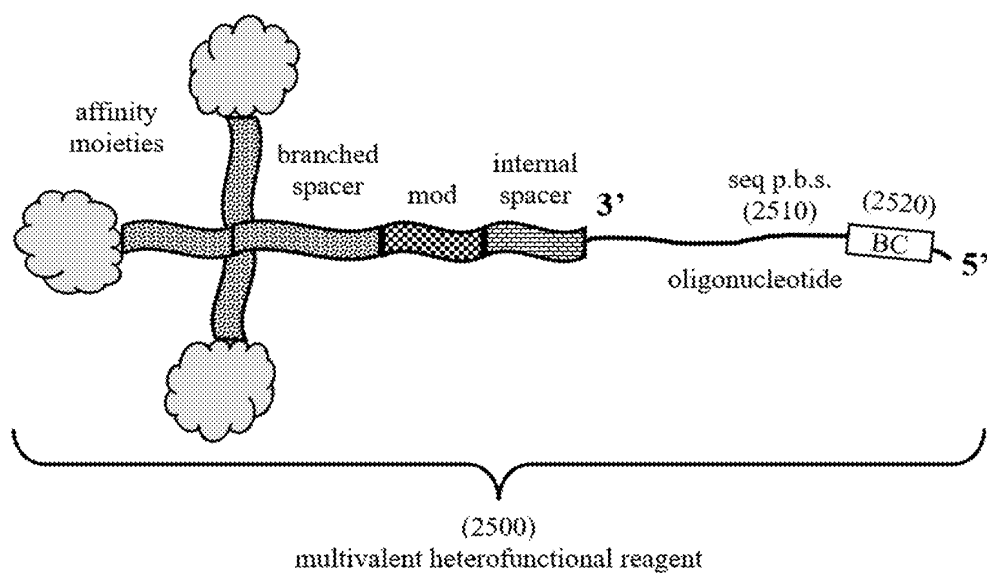


FIG. 48

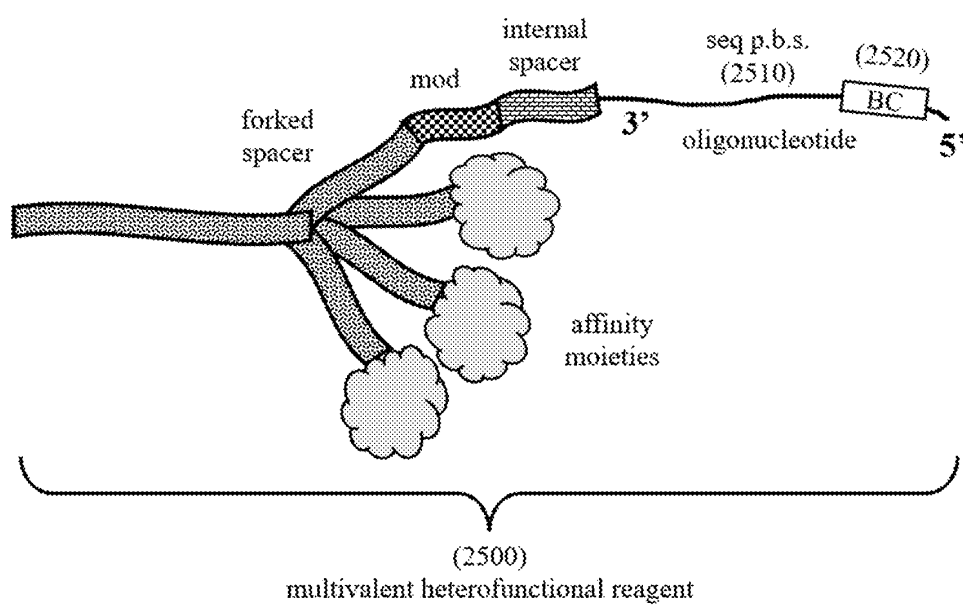


FIG. 49

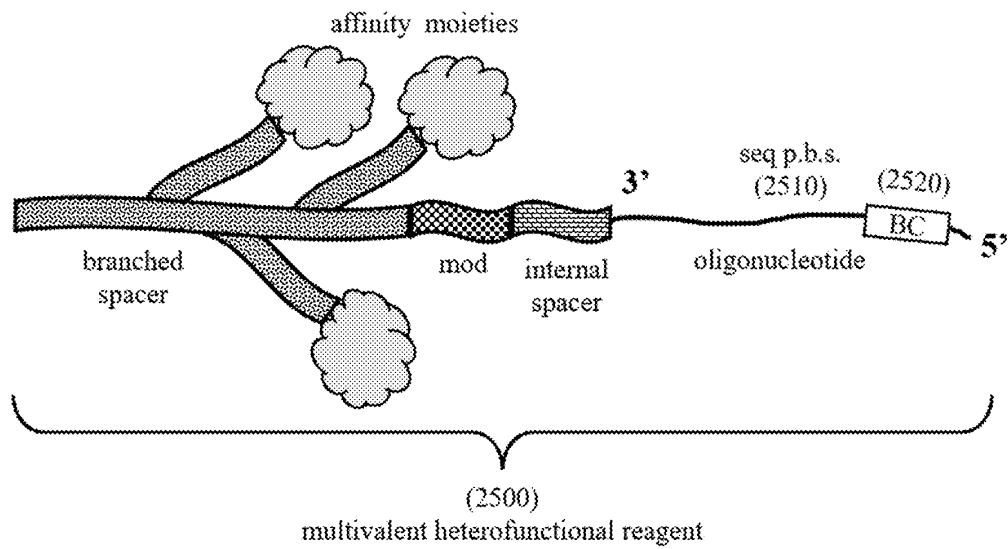


FIG. 50

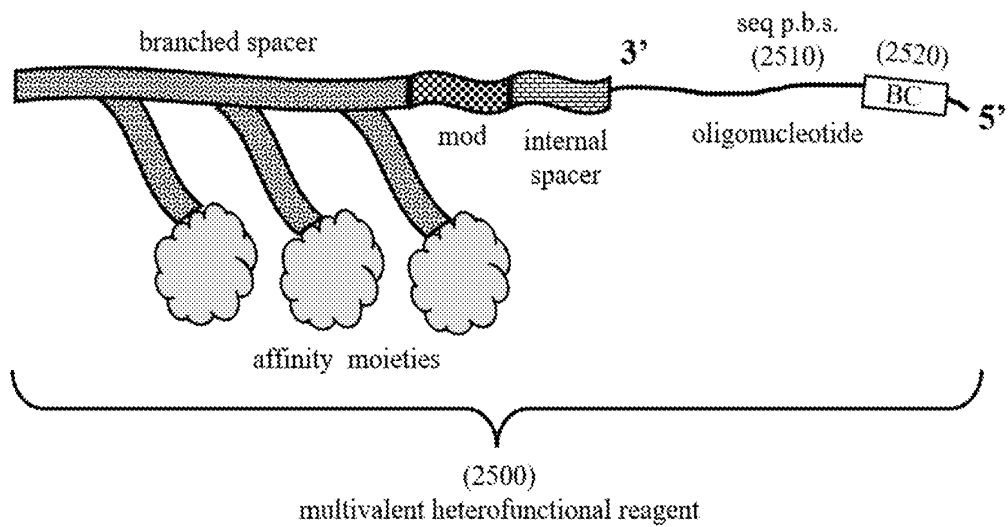
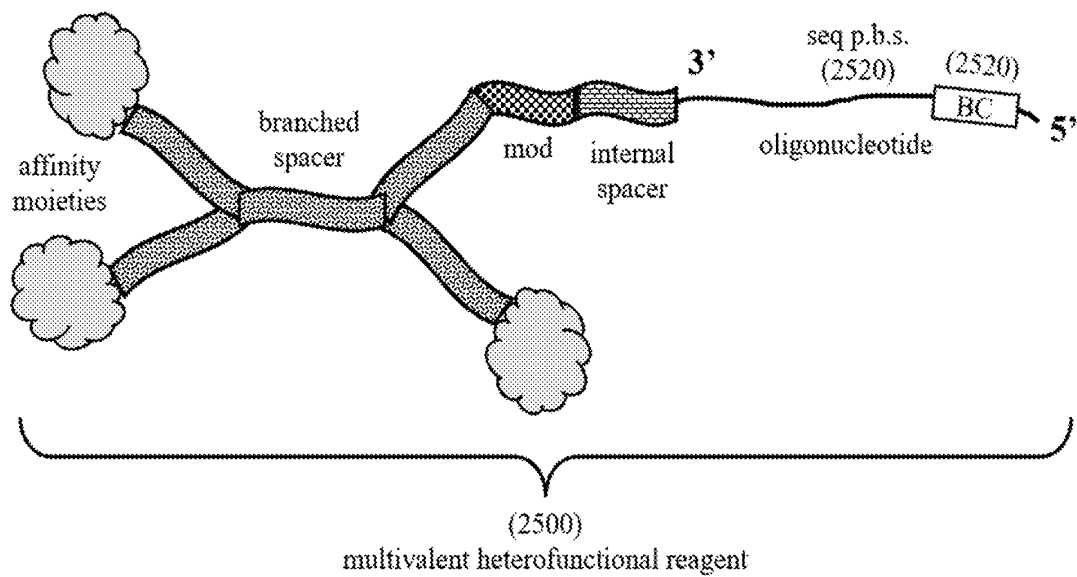


FIG. 51

**FIG. 52**

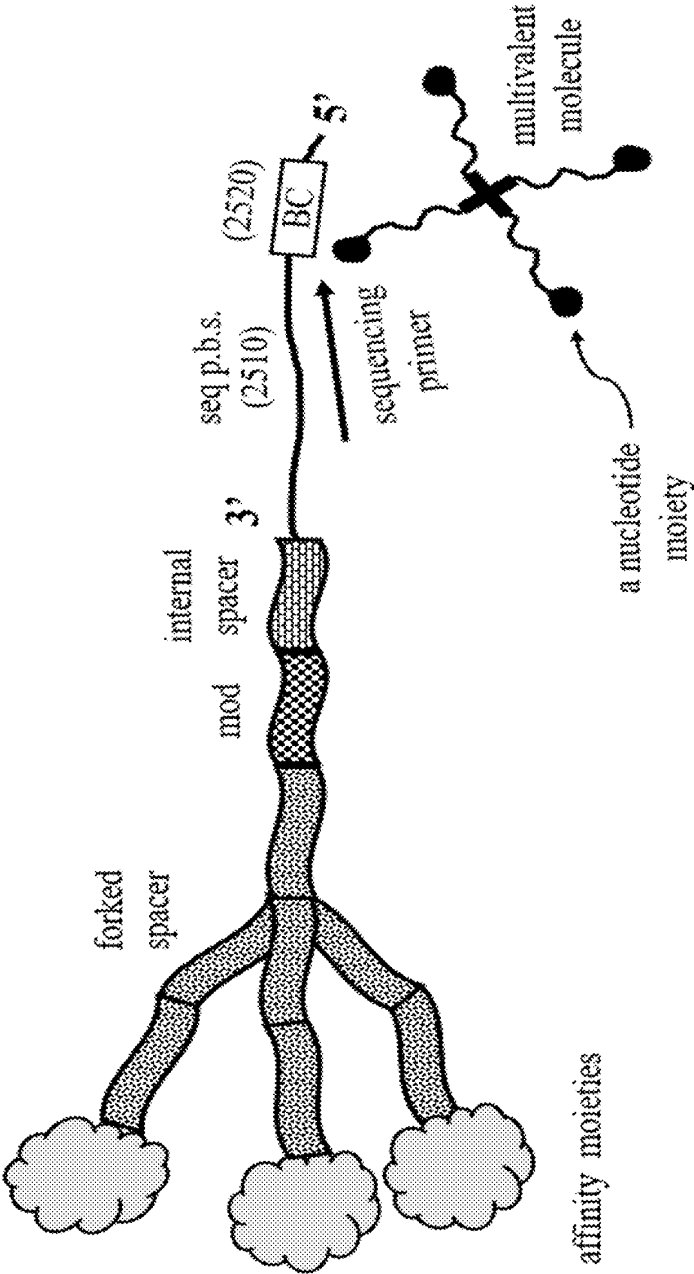


FIG. 53

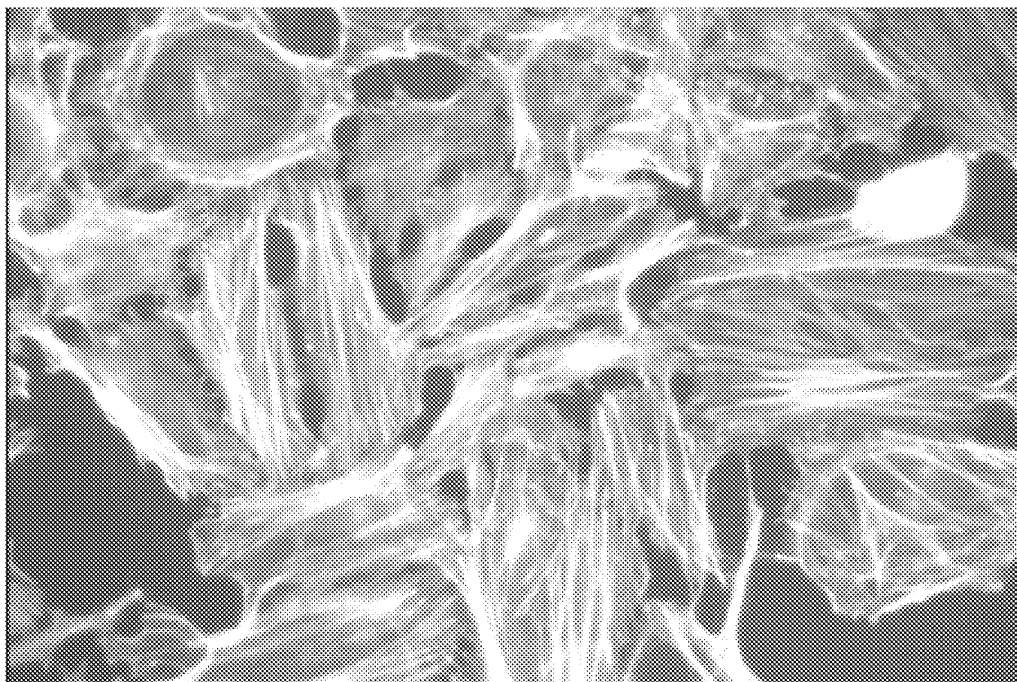


FIG. 54

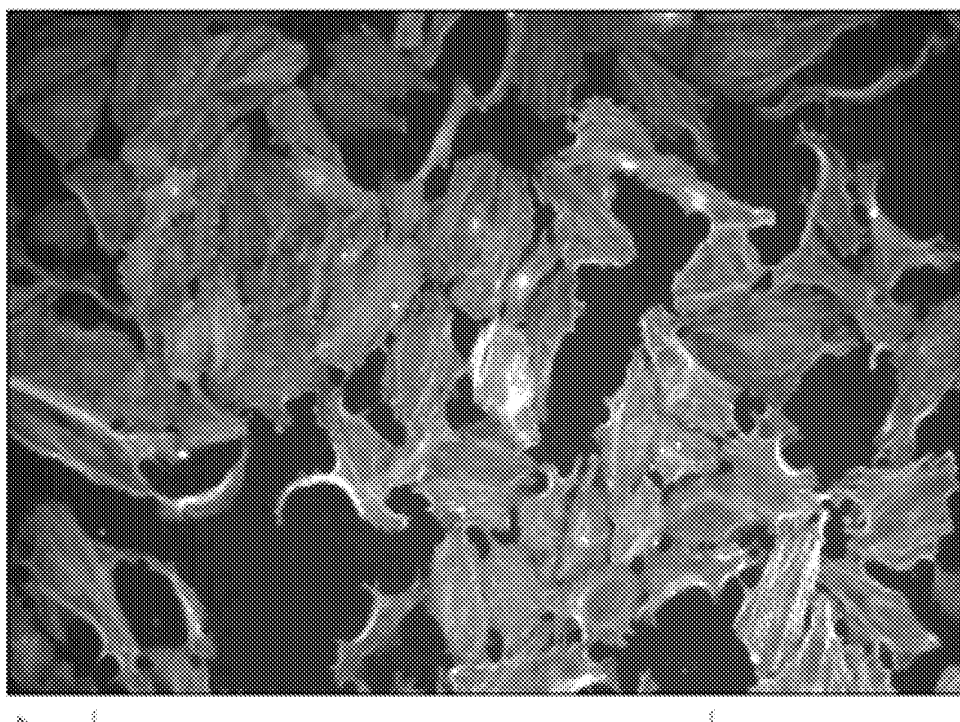


FIG. 55

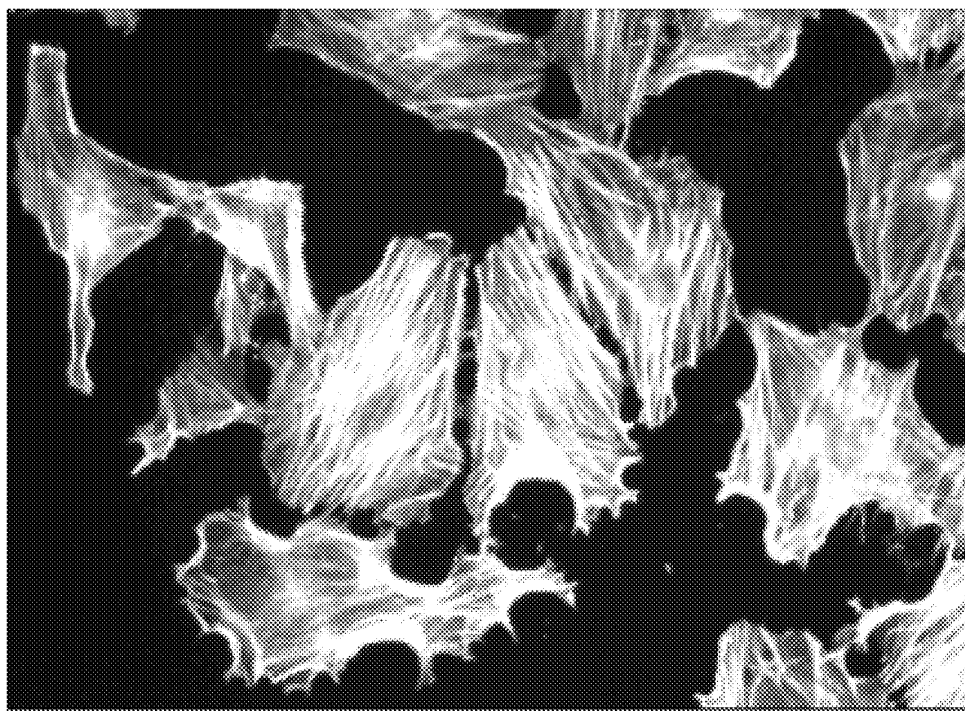


FIG. 56

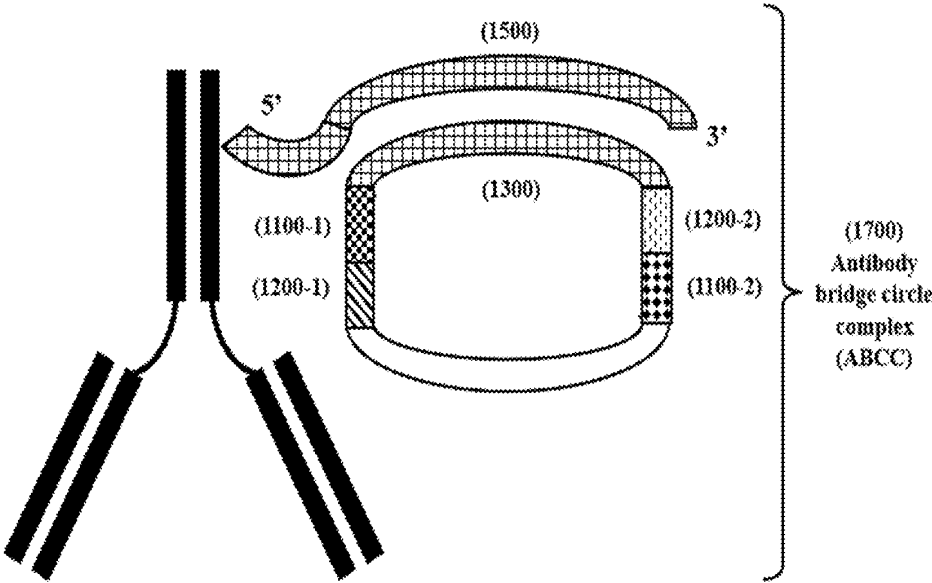


FIG. 57

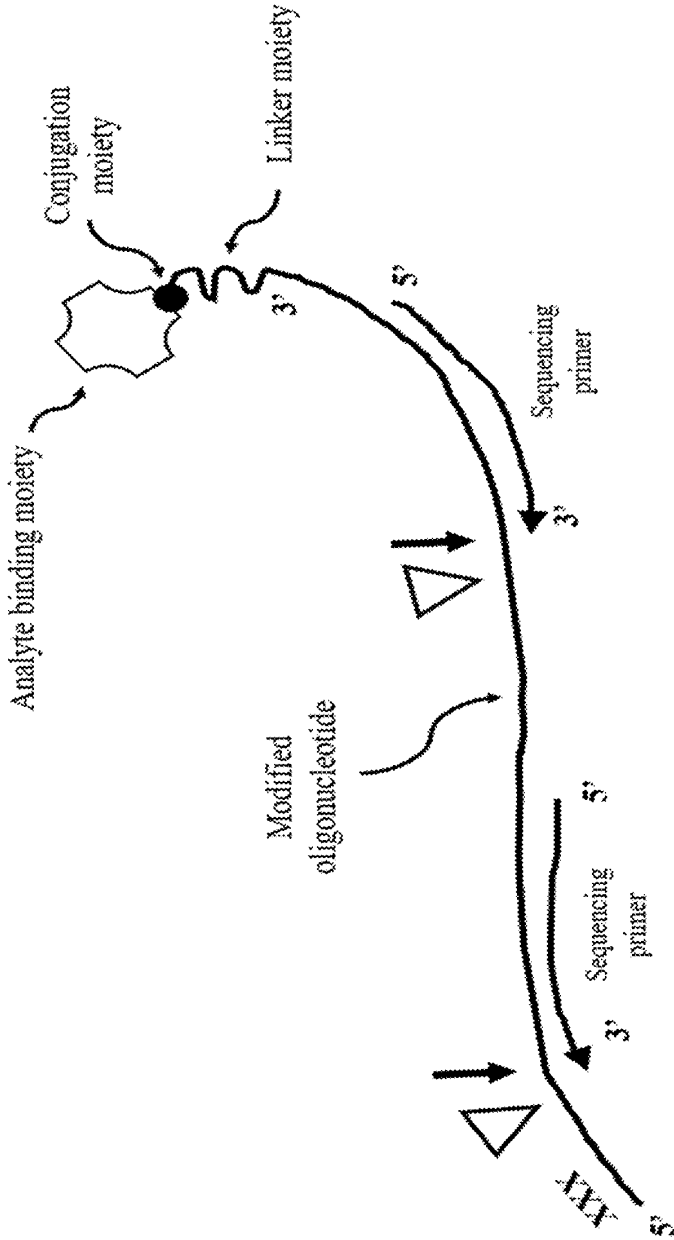


FIG. 58

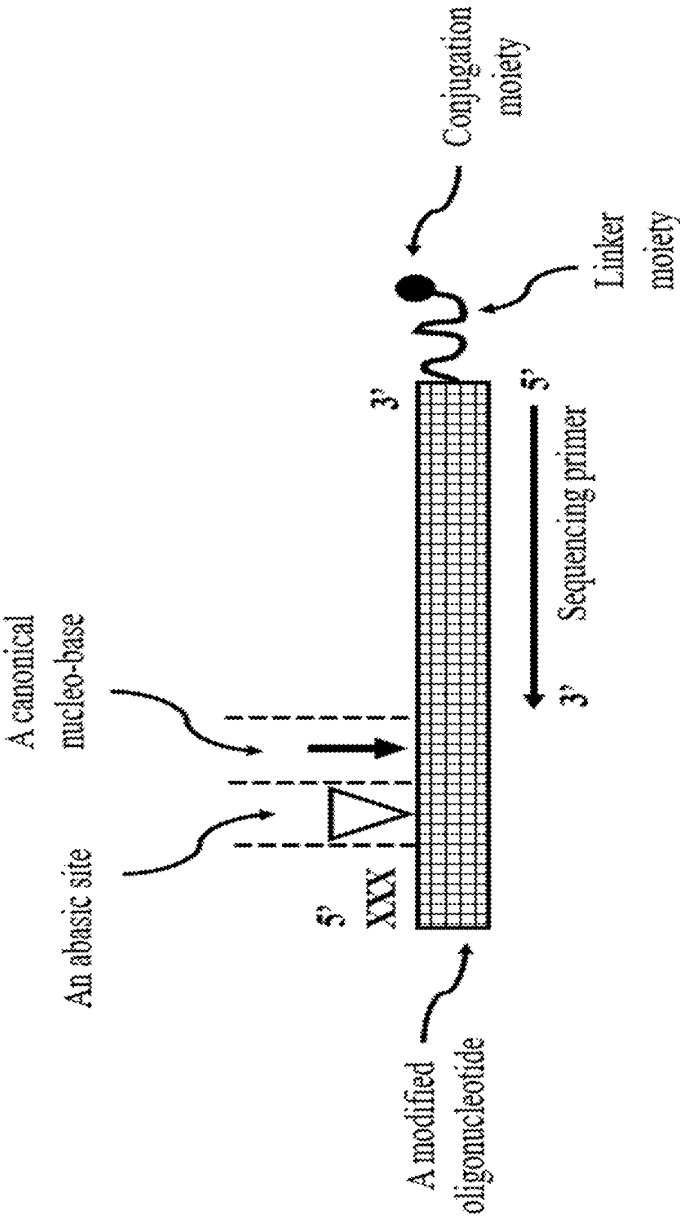


FIG. 59A

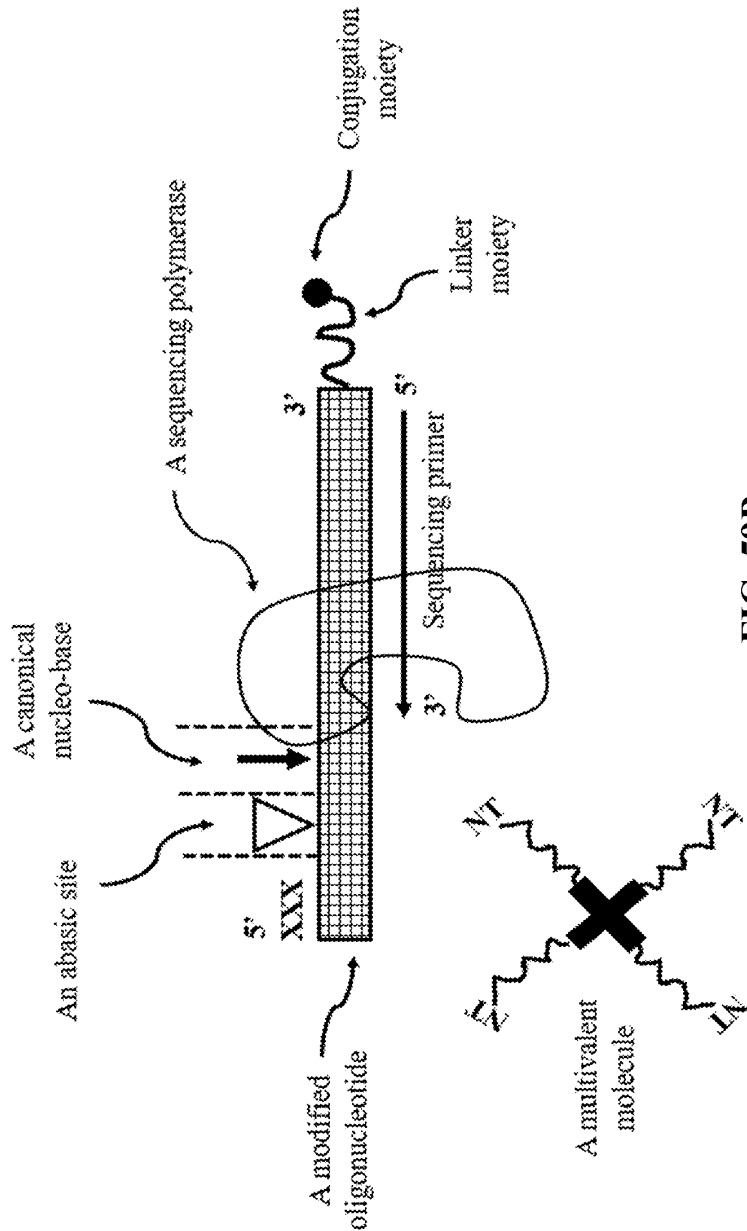


FIG. 59B

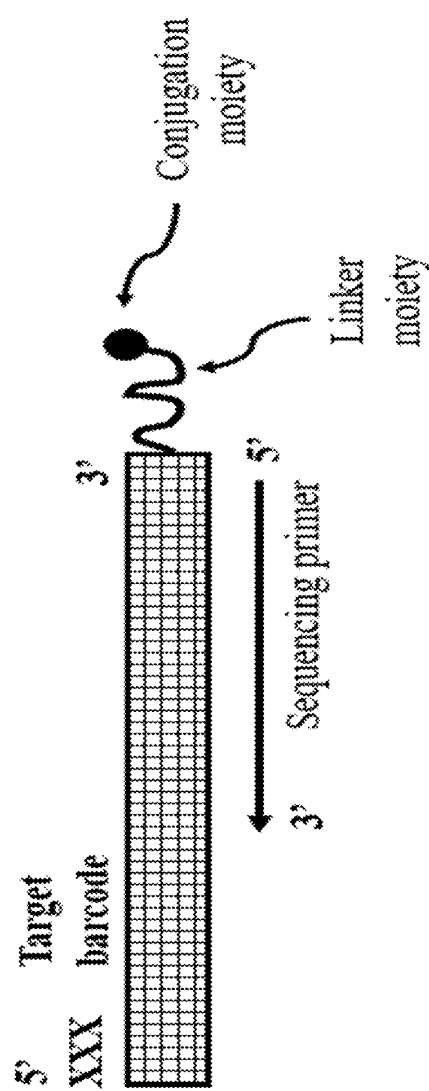


FIG. 60