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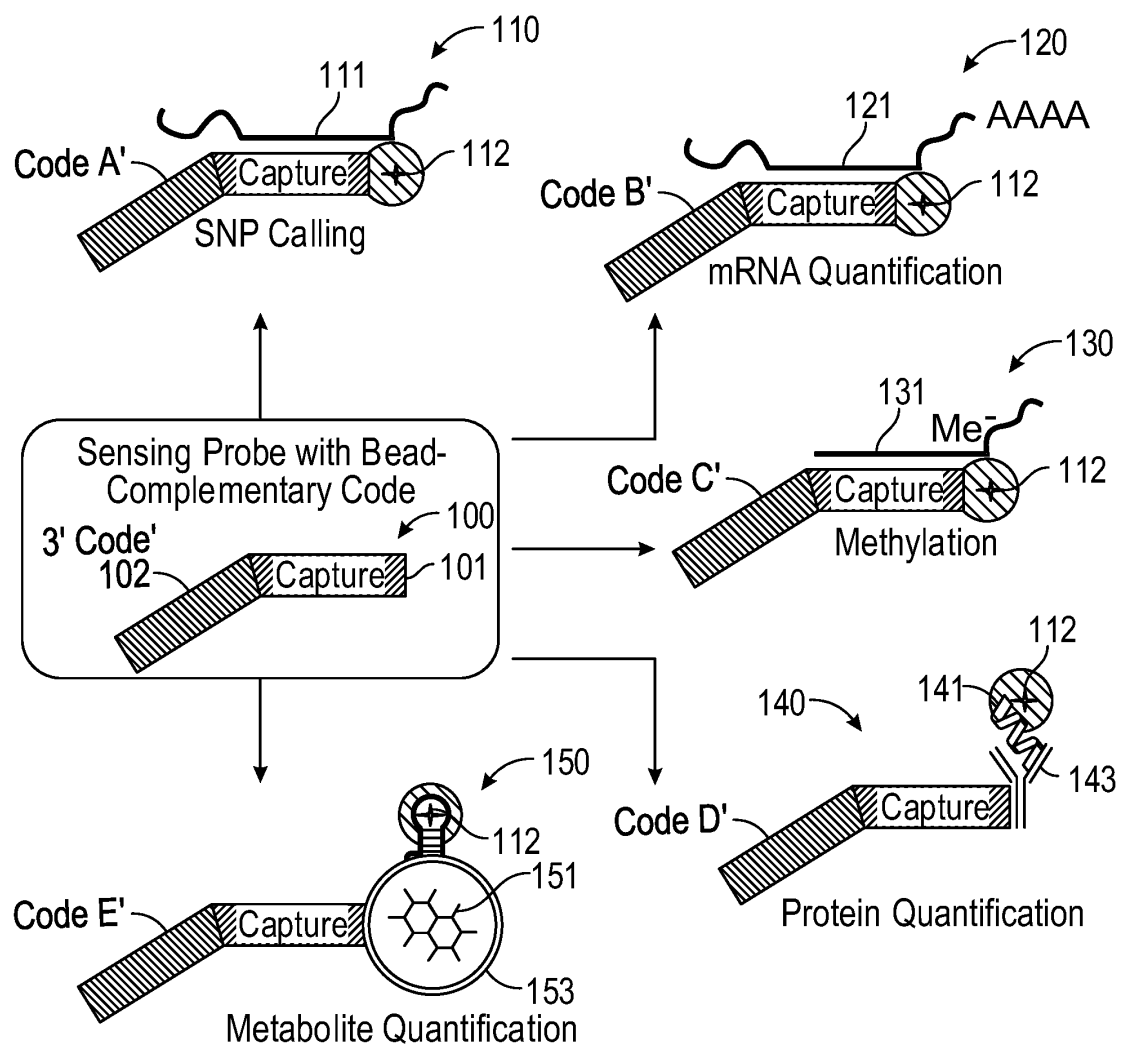


FIG. 1A

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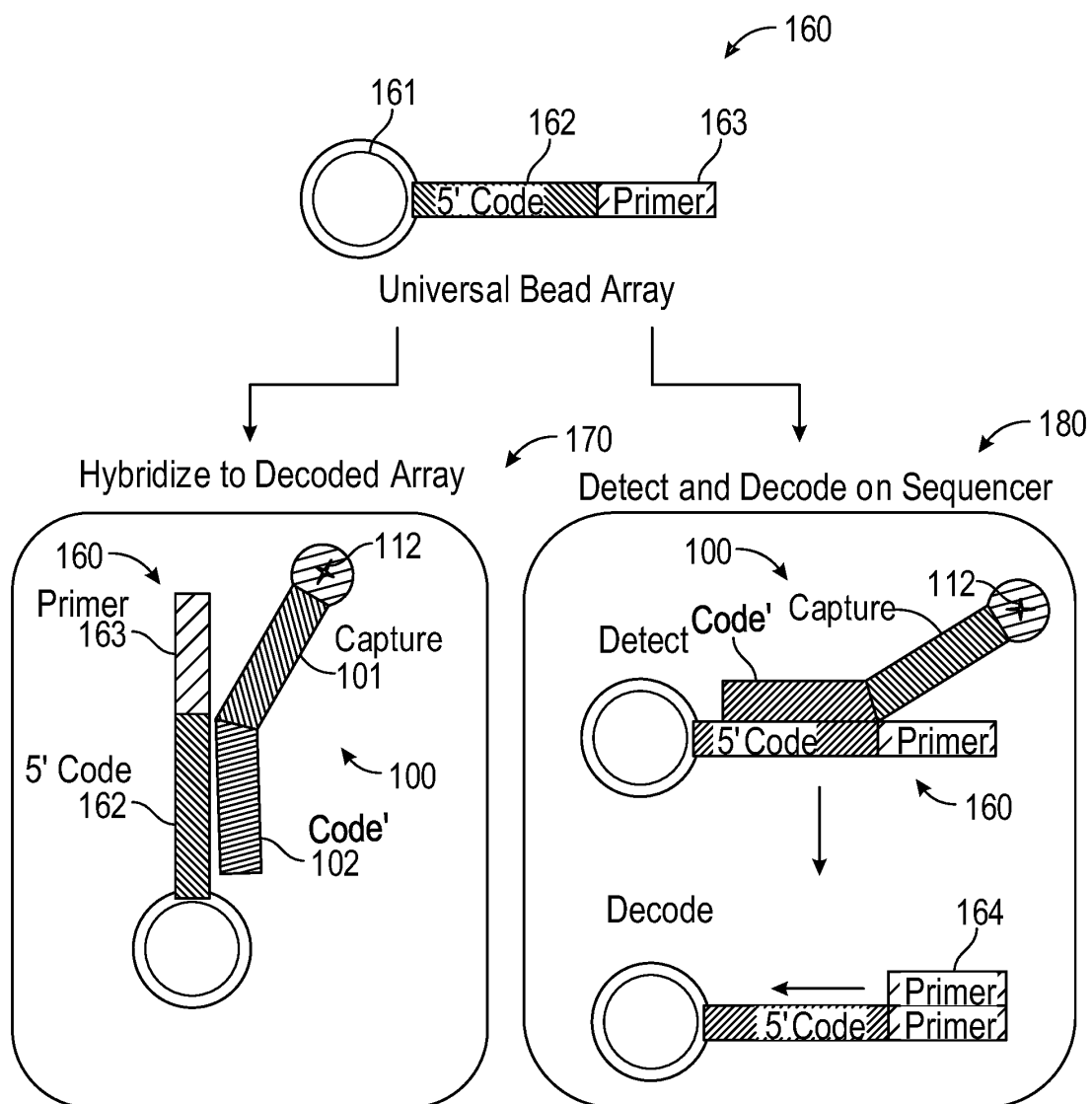


FIG. 1B

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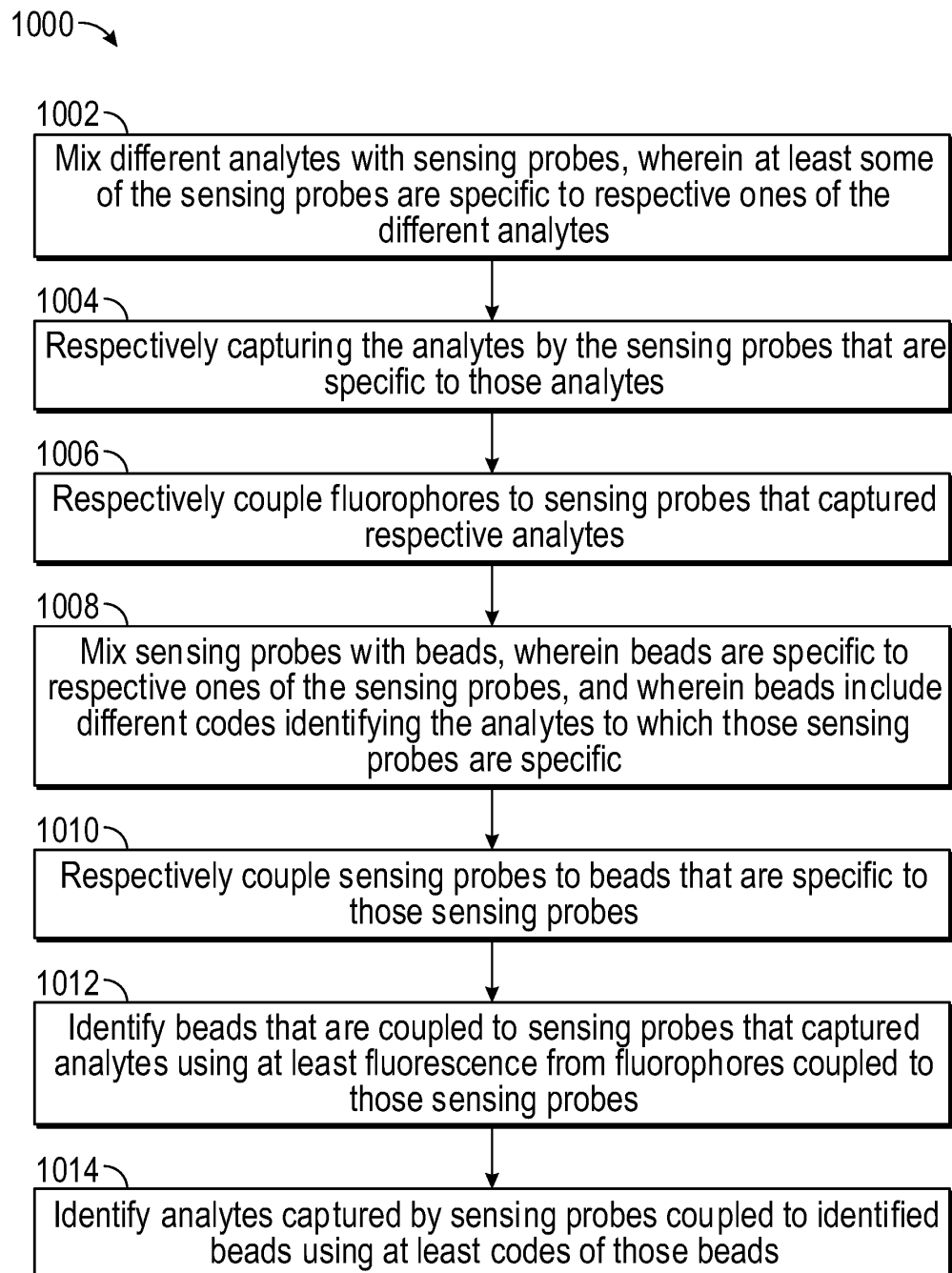


FIG. 1C

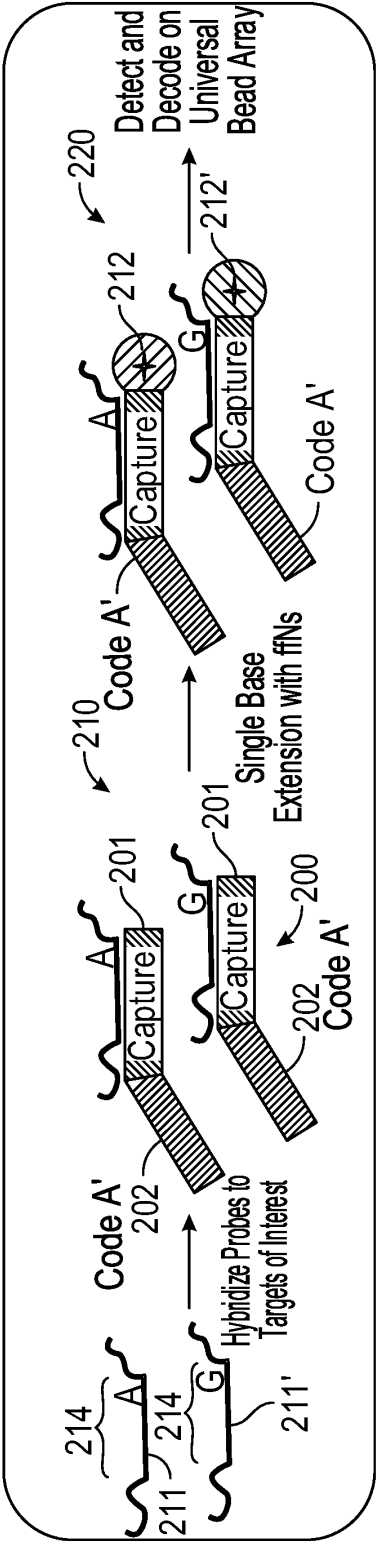


FIG. 2A

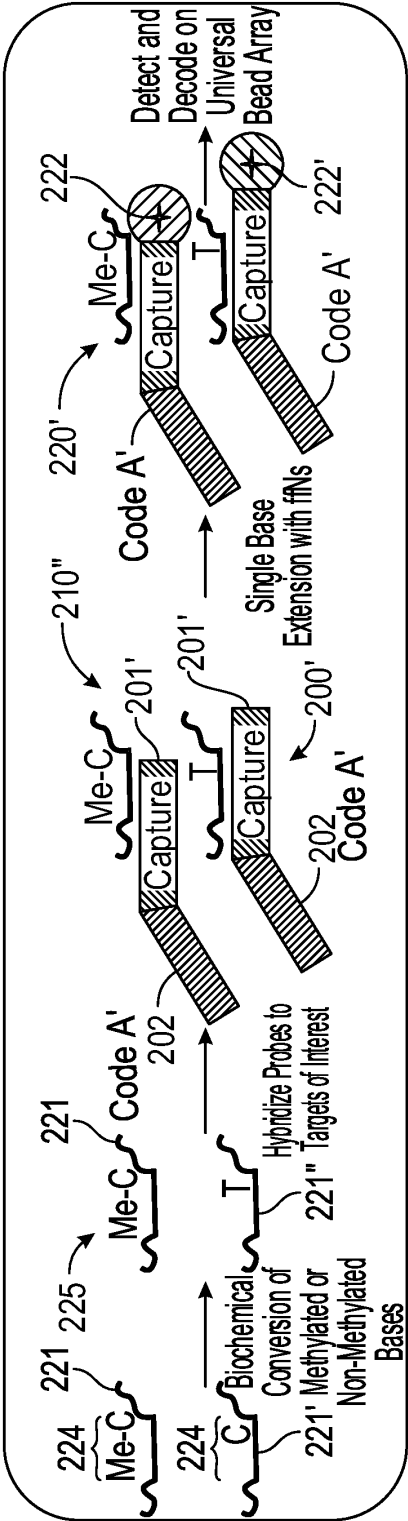


FIG. 2B

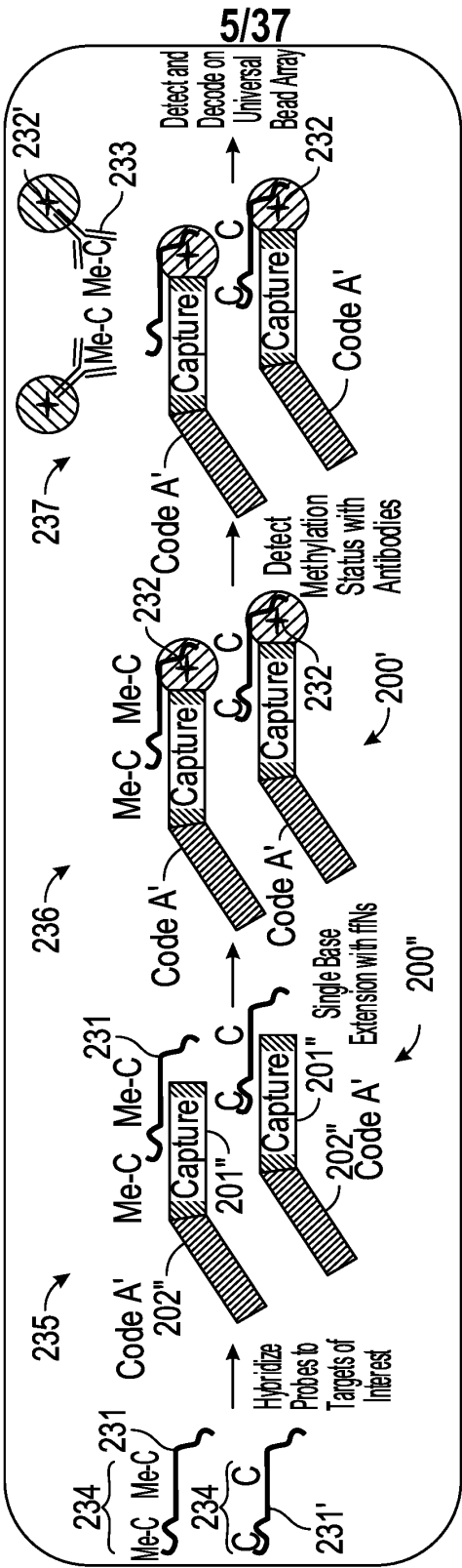


FIG. 2C

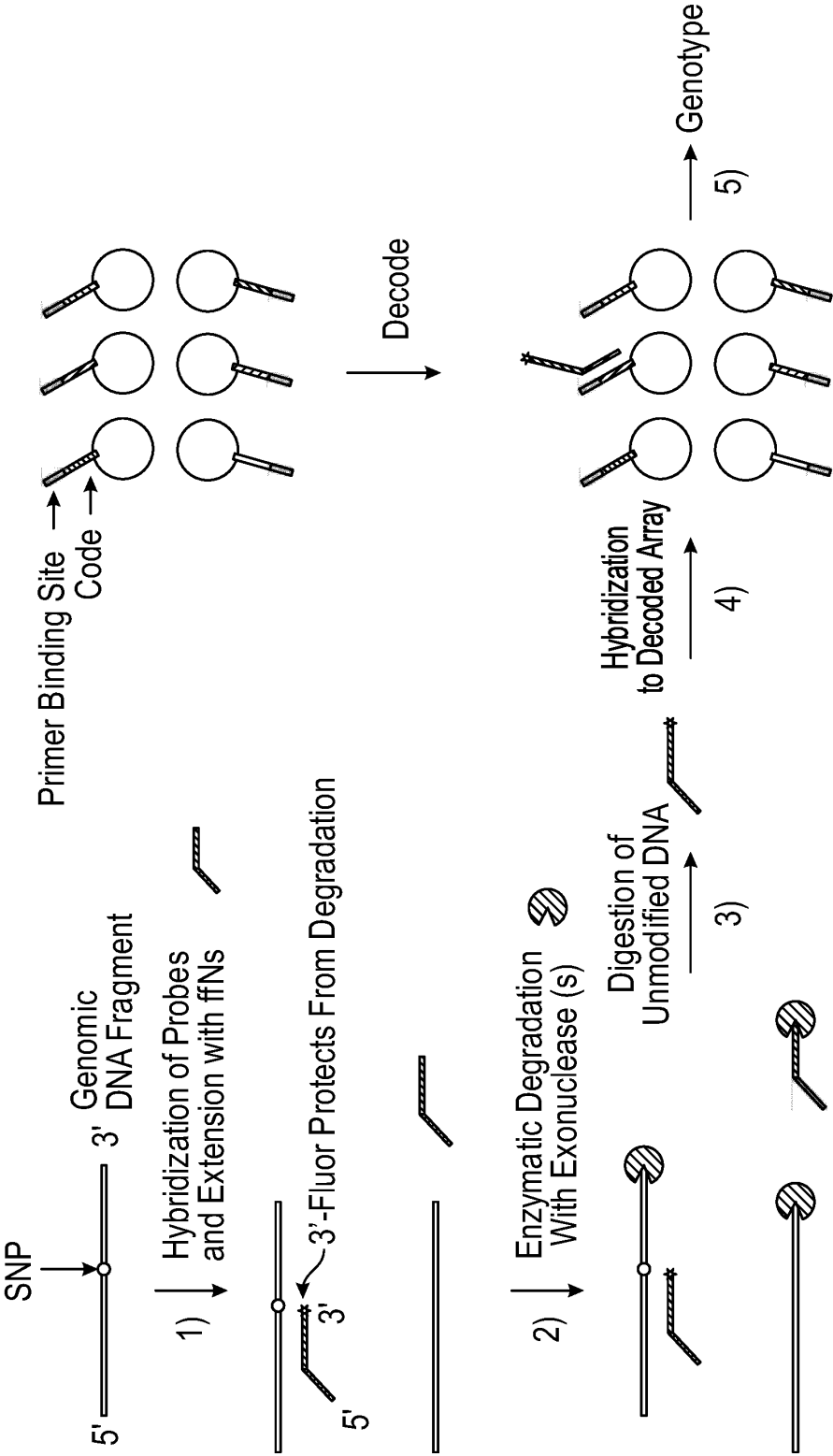


FIG. 2D

One Pot Add-on Assay for Signal Generation and Amplification

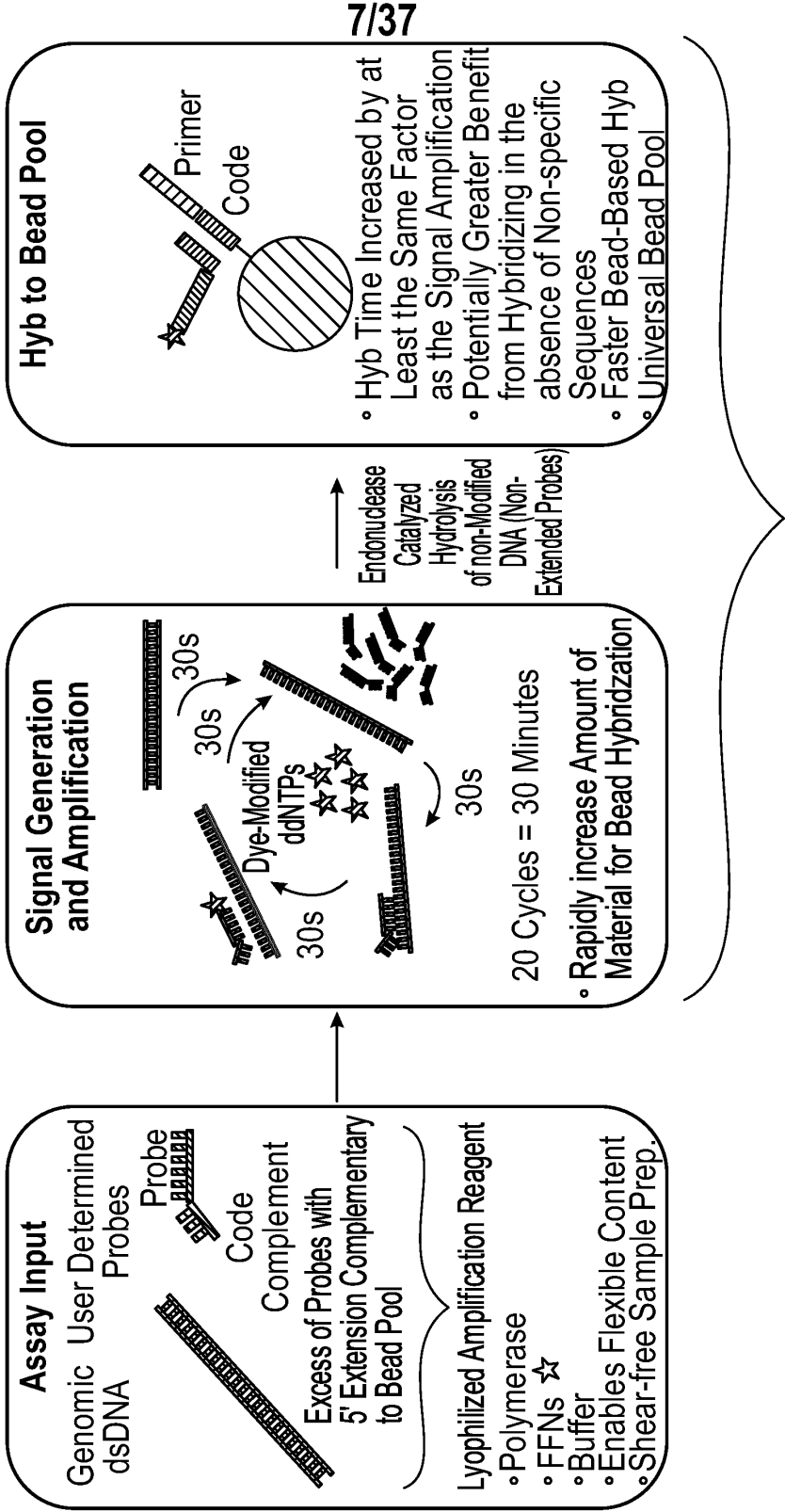


FIG. 2E

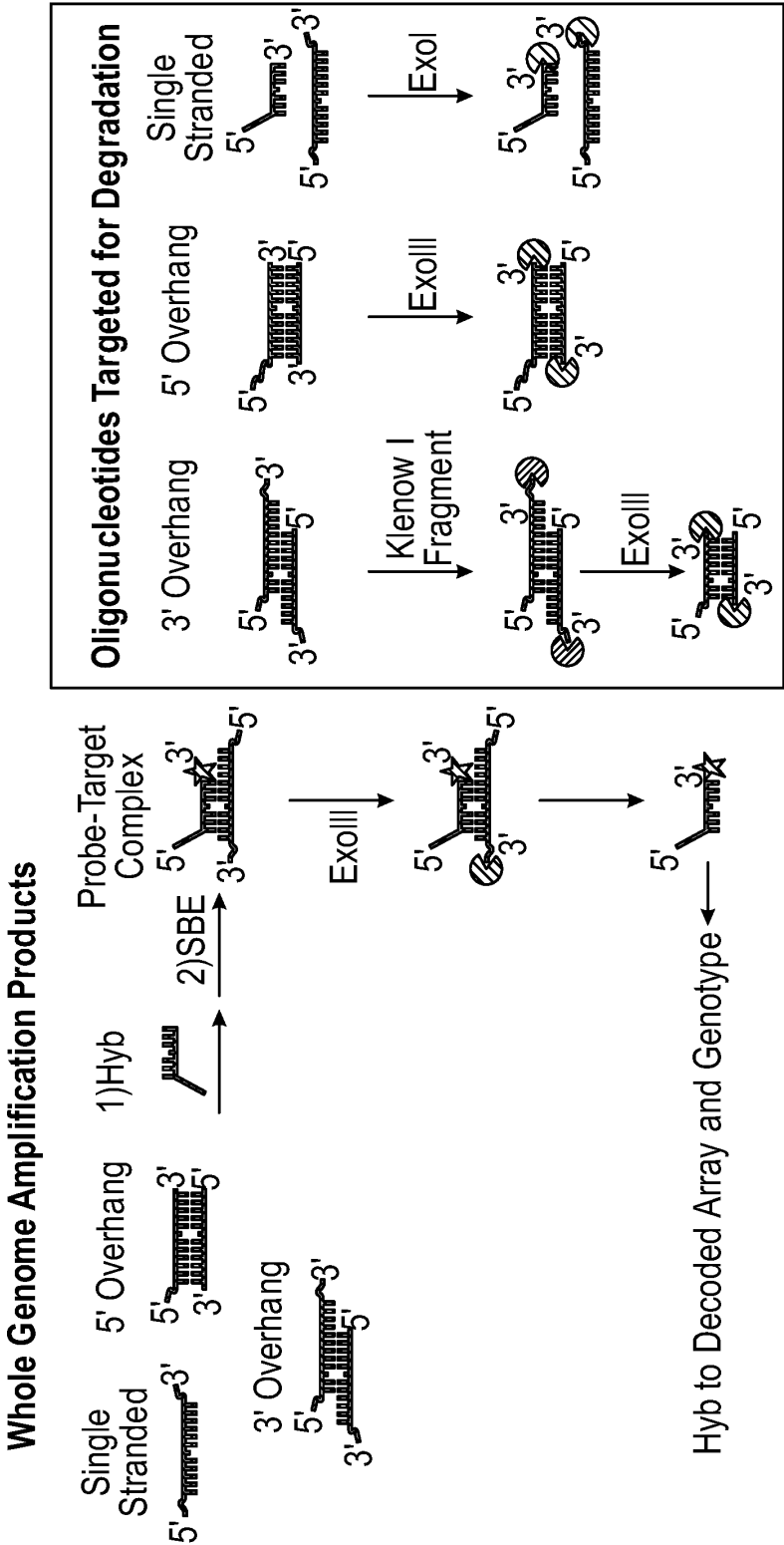


FIG. 2F

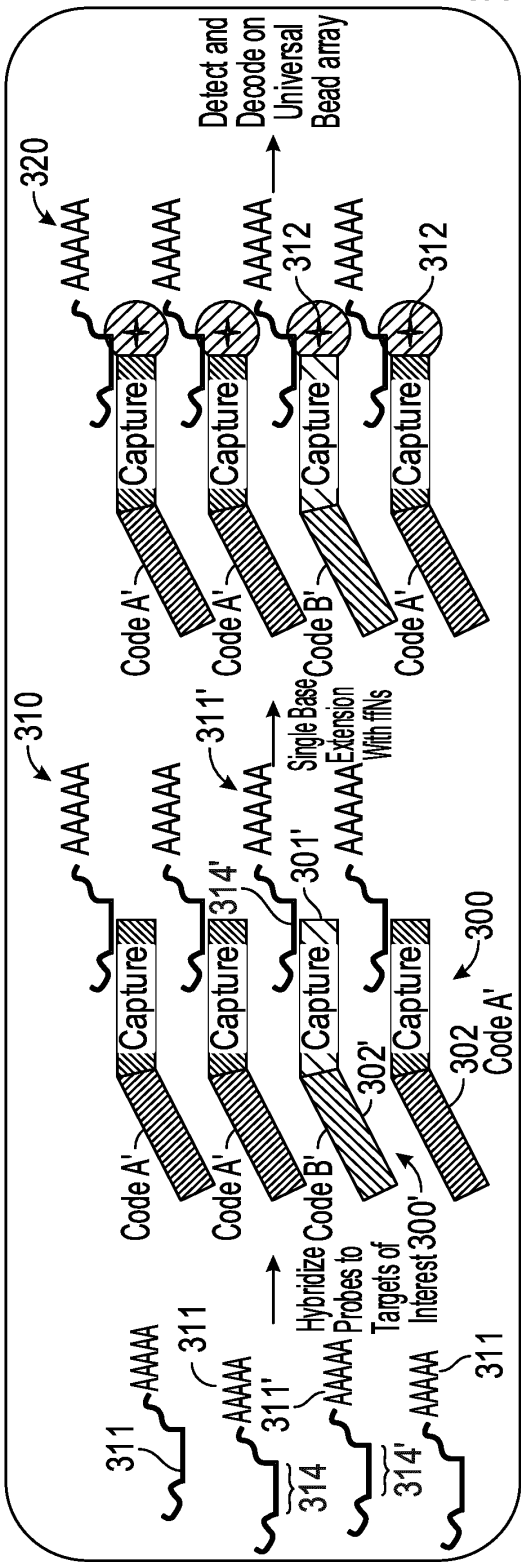


FIG. 3A

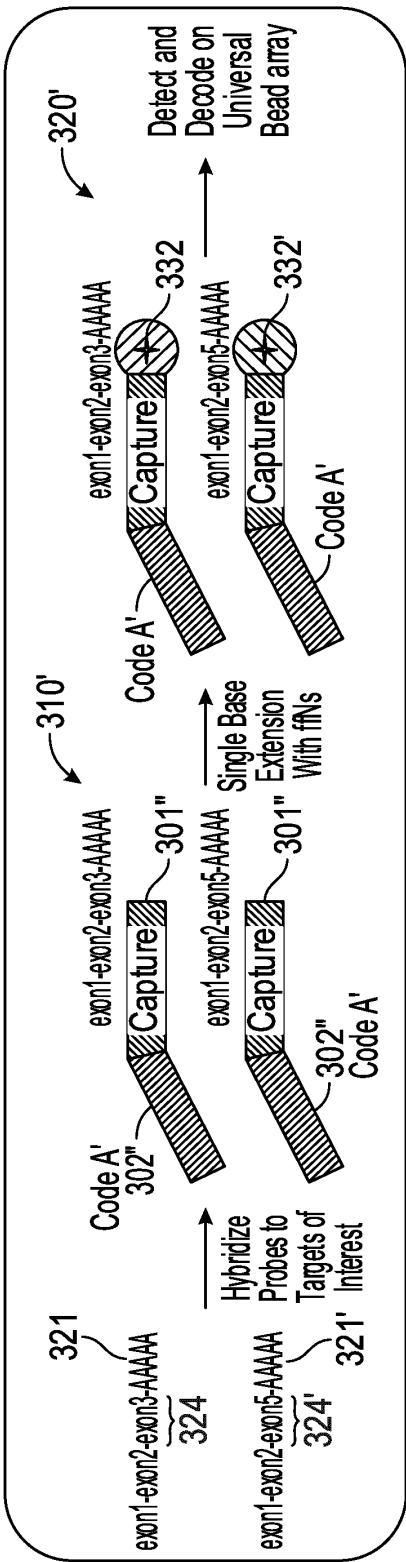


FIG. 3B

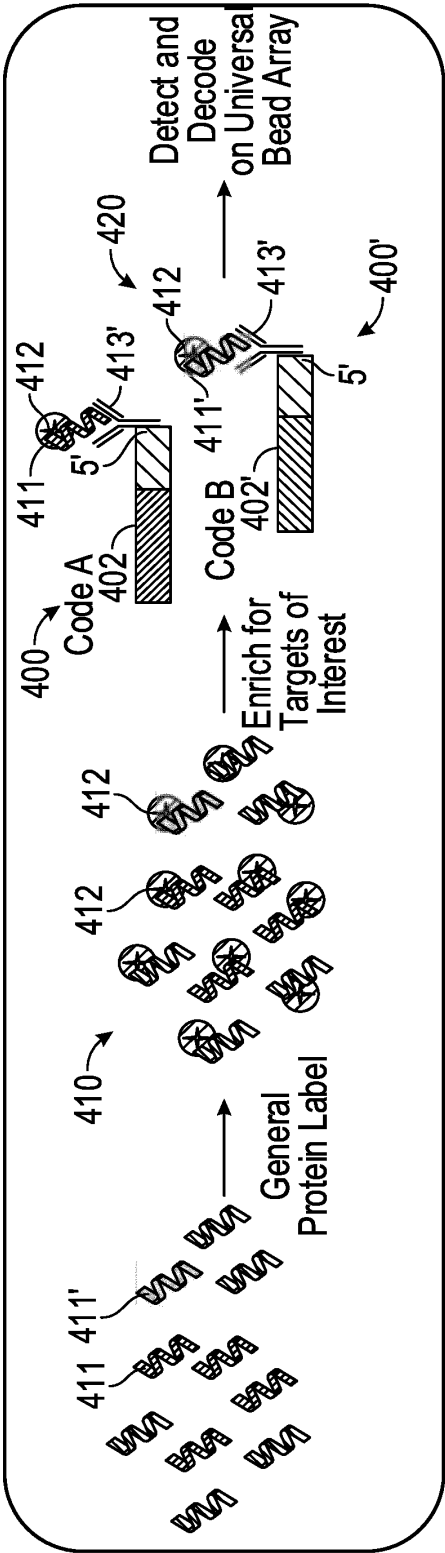


FIG. 4A

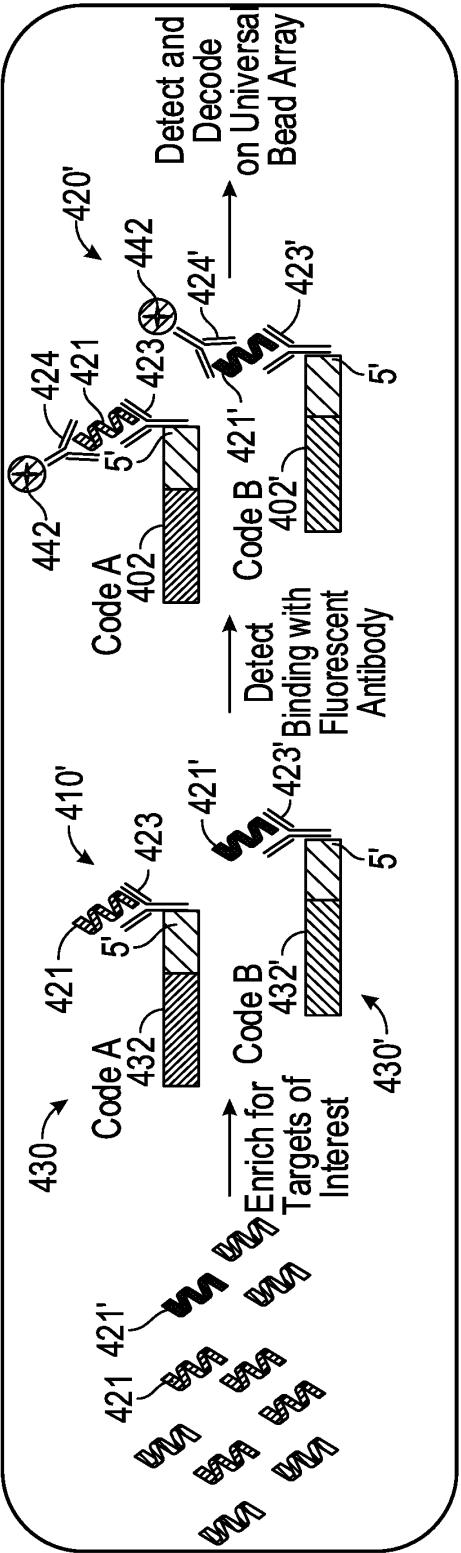


FIG. 4B

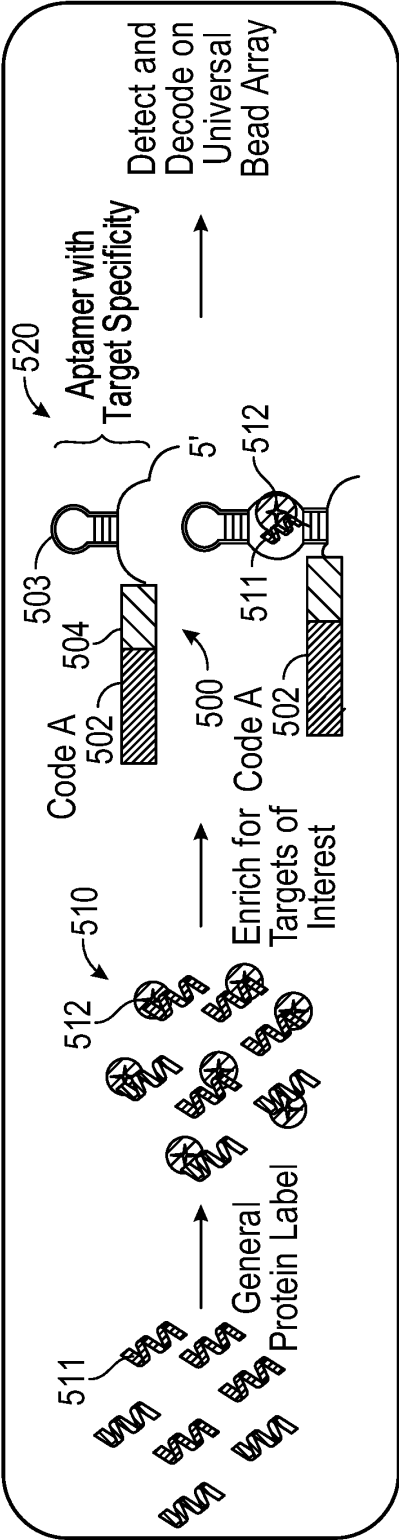


FIG. 5A

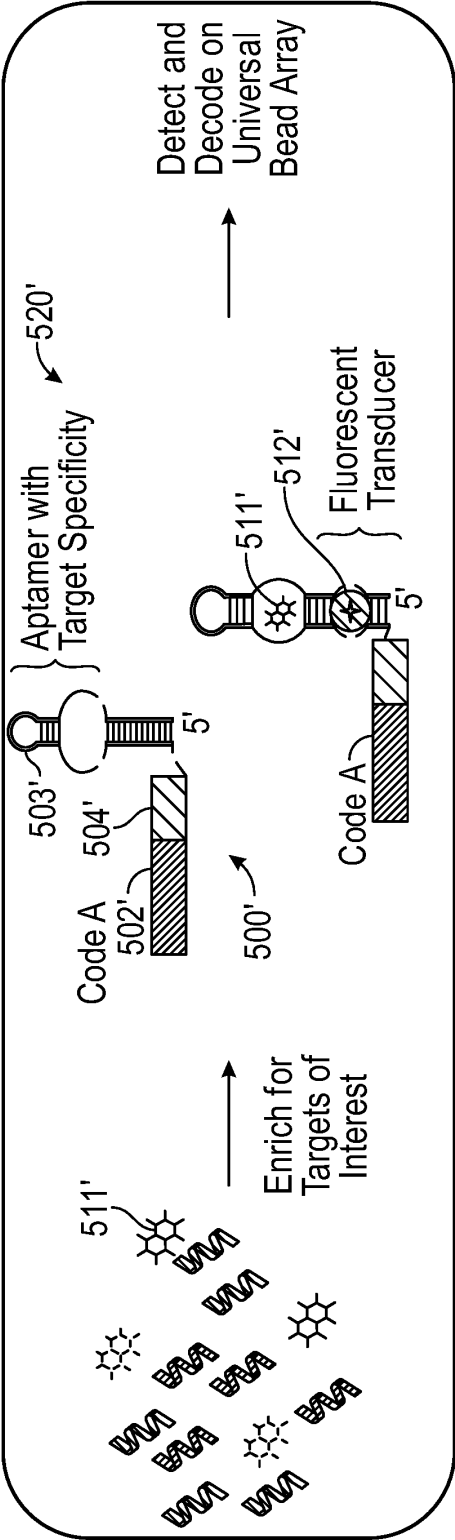


FIG. 5B

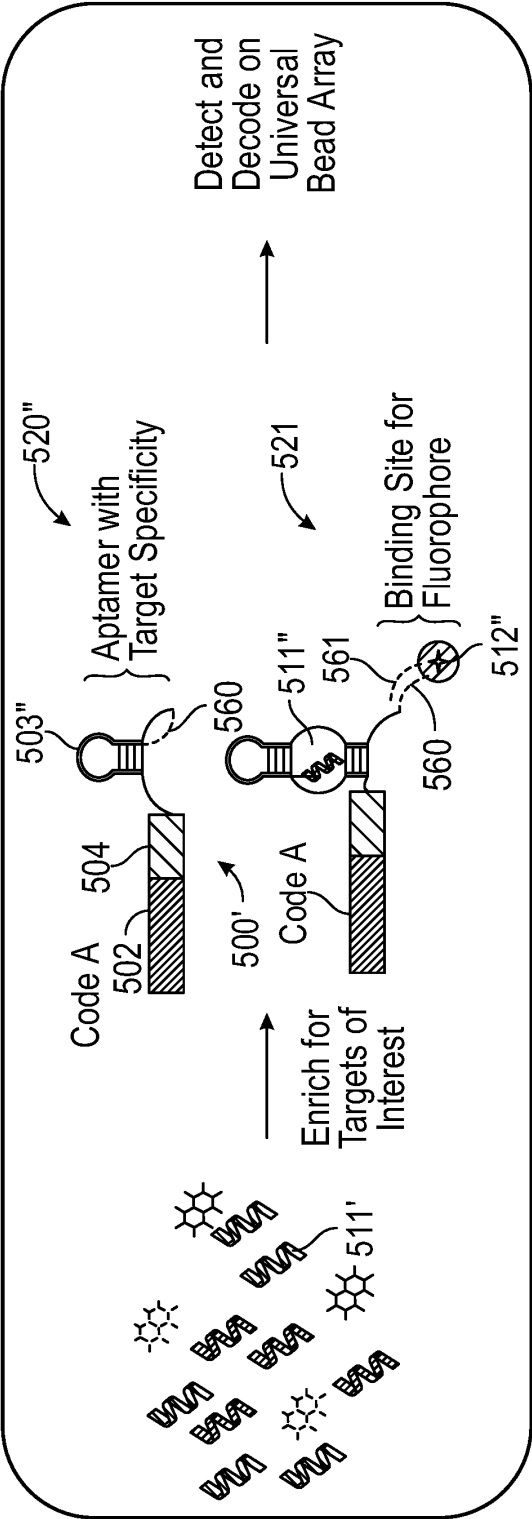


FIG. 5C

⊗ Signal Representing All Possible Binding Sites
⊕ Signal Representing Analyte binding

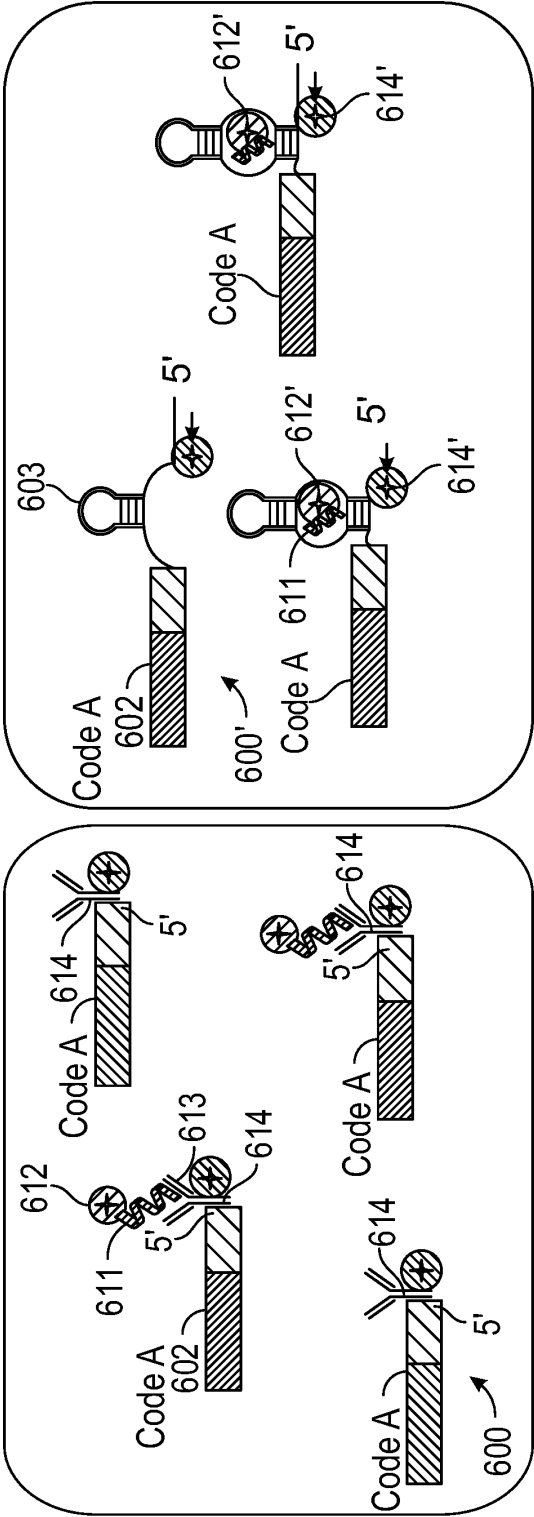


FIG. 6B

FIG. 6A

Sensing Multiple Fluorophore Signal Intensity Per Bead Allows Quantification of Ratiometric Data Types			
Bead for a Single Target Hybridized to Capture Probes	(A)	(B)	
	0% Red; 100% Blue	50% Red; 50% Blue	
	Homozygous for the Blue Genotype	Heterozygous for the Red/Blue Genotype	
Example Interpretation for DNA SNP Assay	100% Methylated Locus	50% Methylated Locus	
Example Interpretation for RNA Splice Junction Assay	100% Splice Junction 1	50% Splice Junction 1; 50% Splice Junction 2	

FIG. 6C

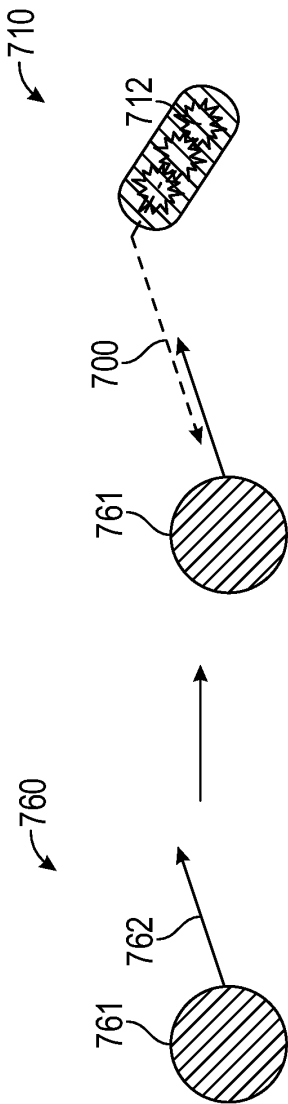


FIG. 7A

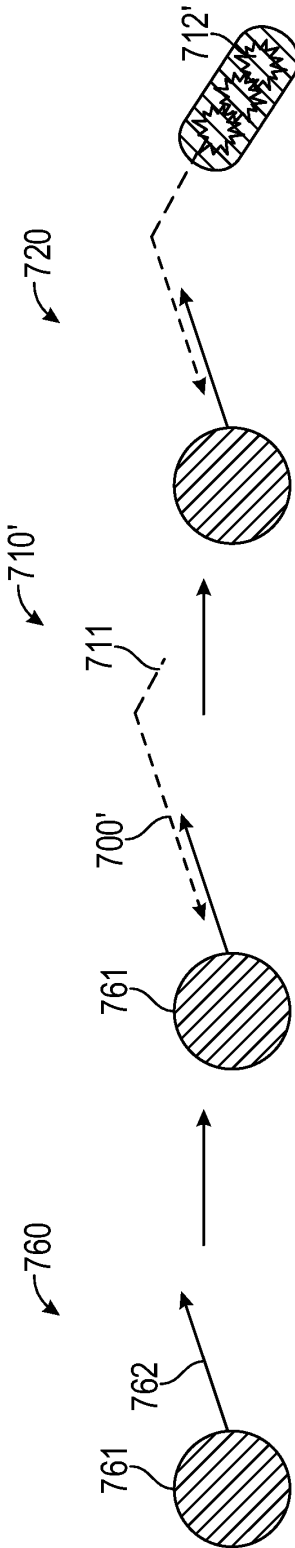
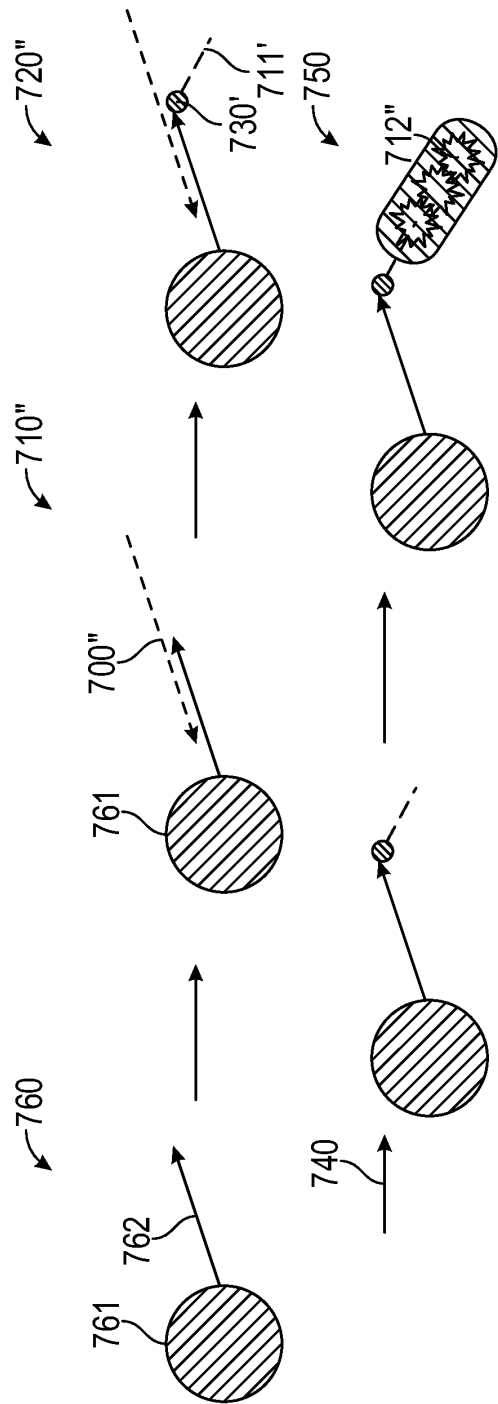
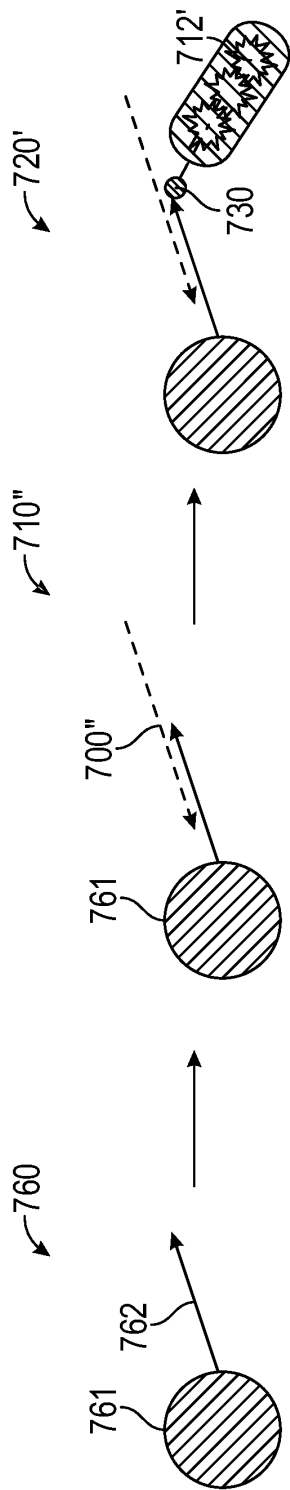


FIG. 7B



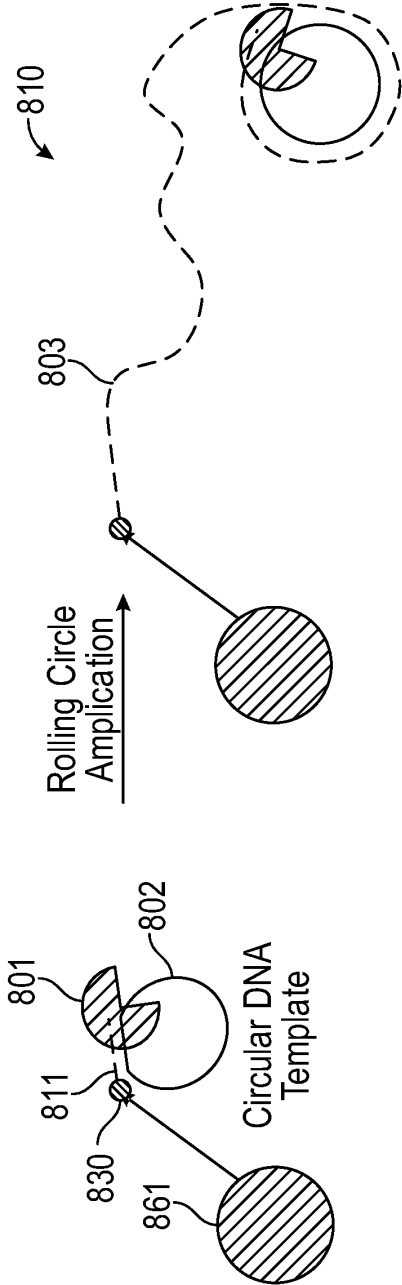


FIG. 8A

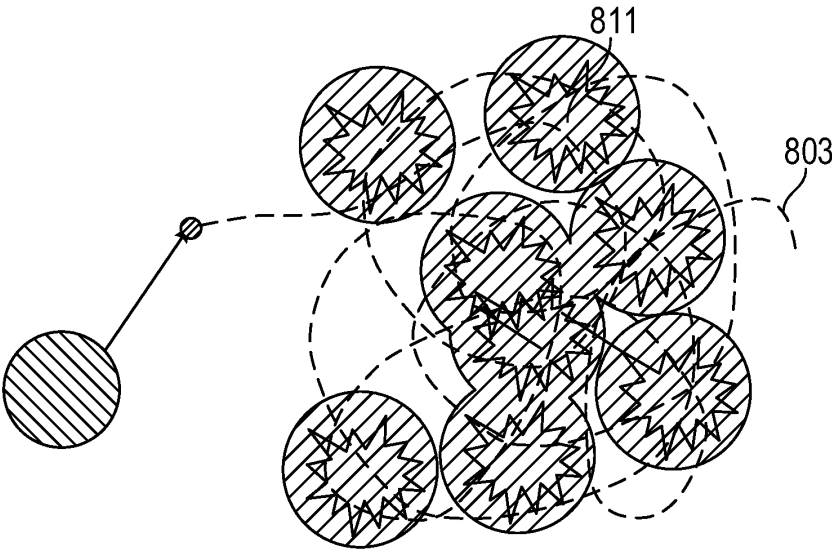


FIG. 8B

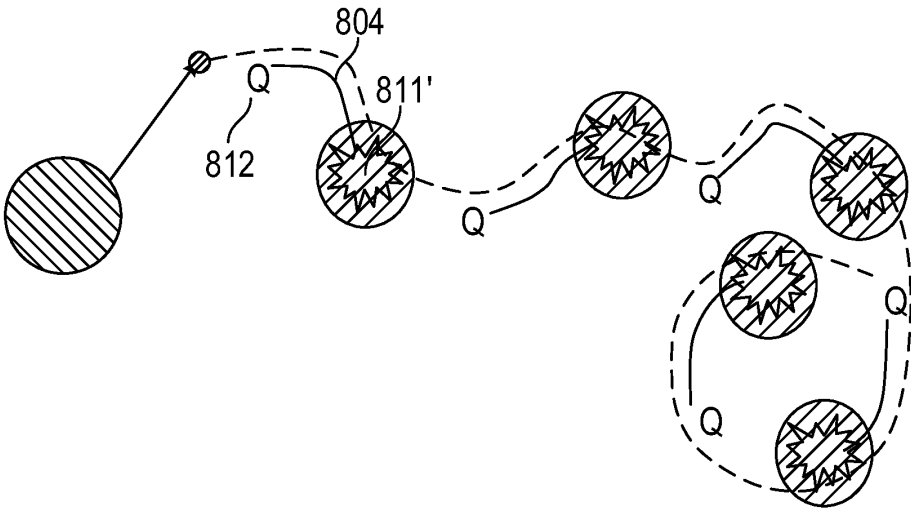


FIG. 8C

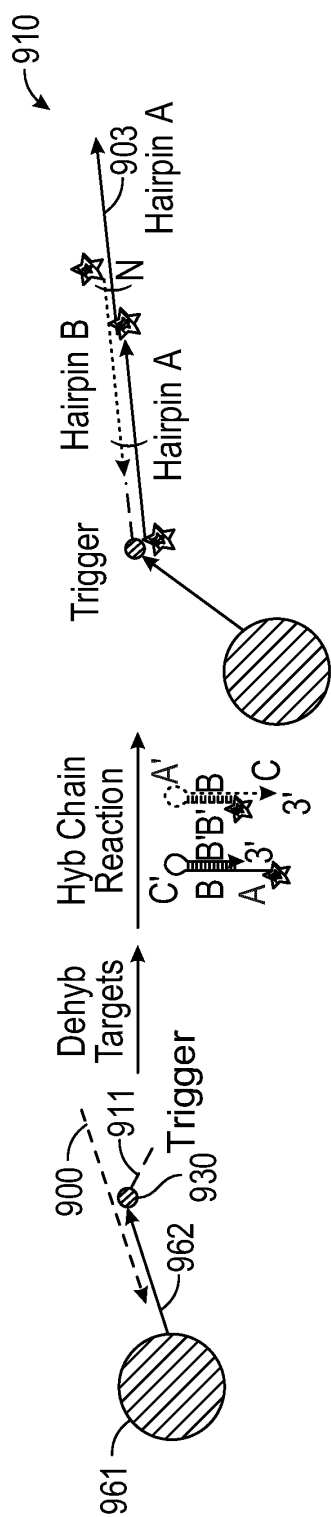


FIG. 9A

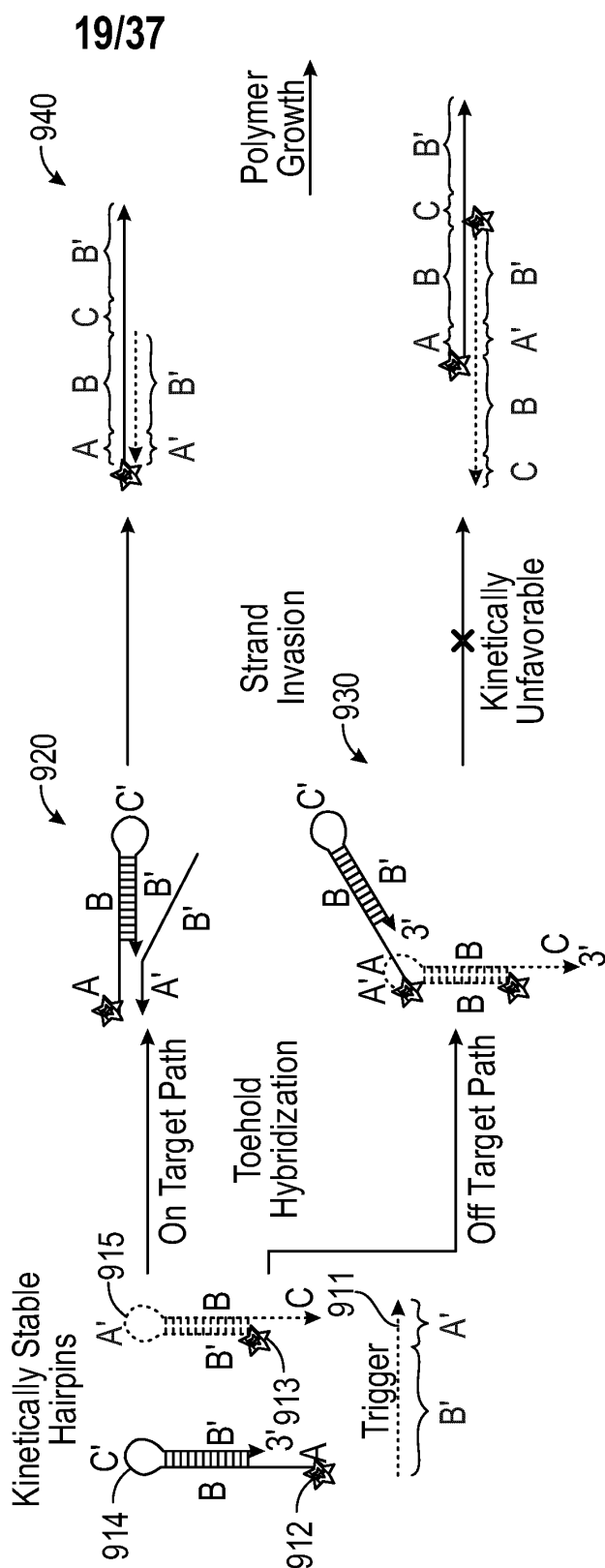
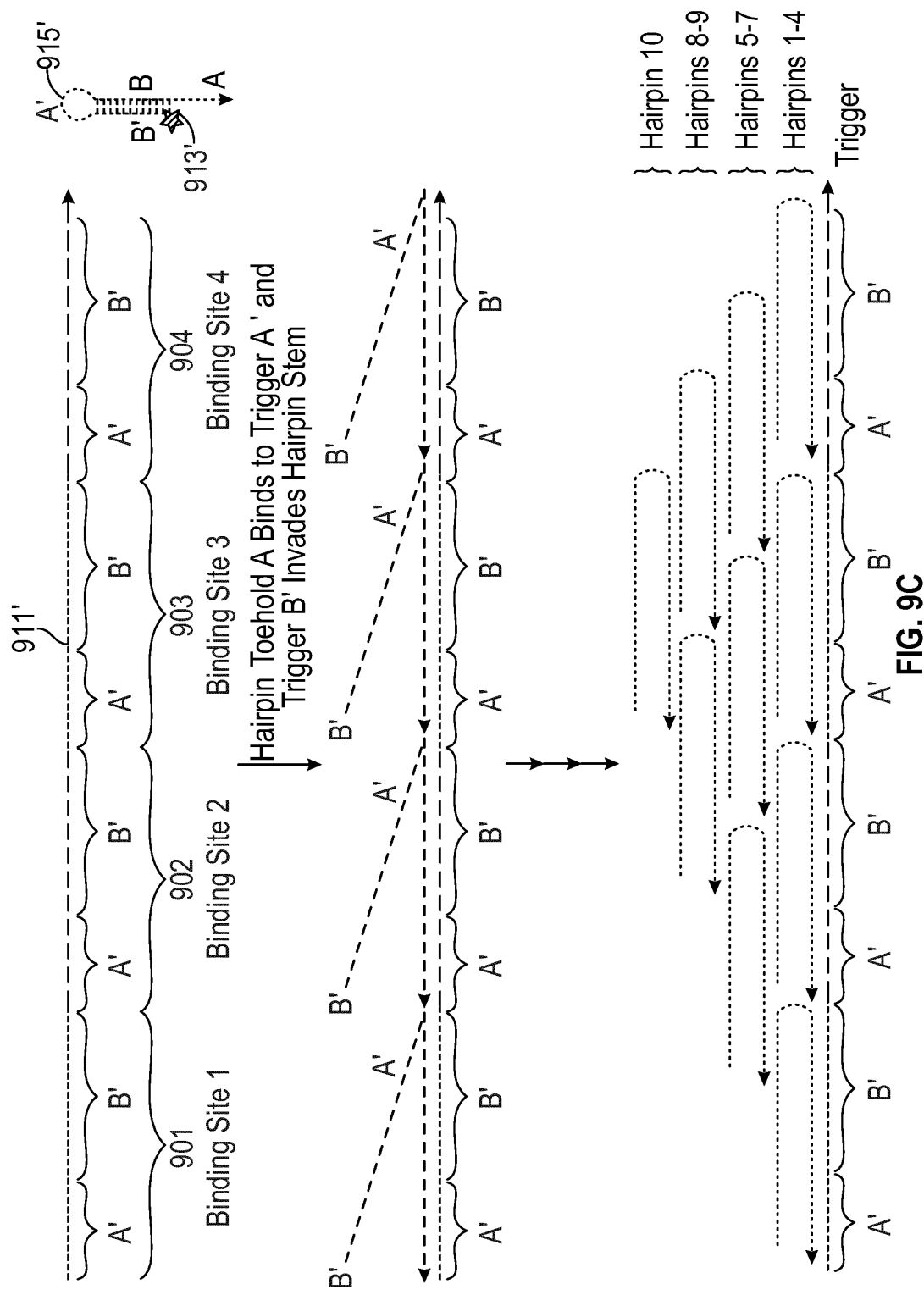


FIG. 9B



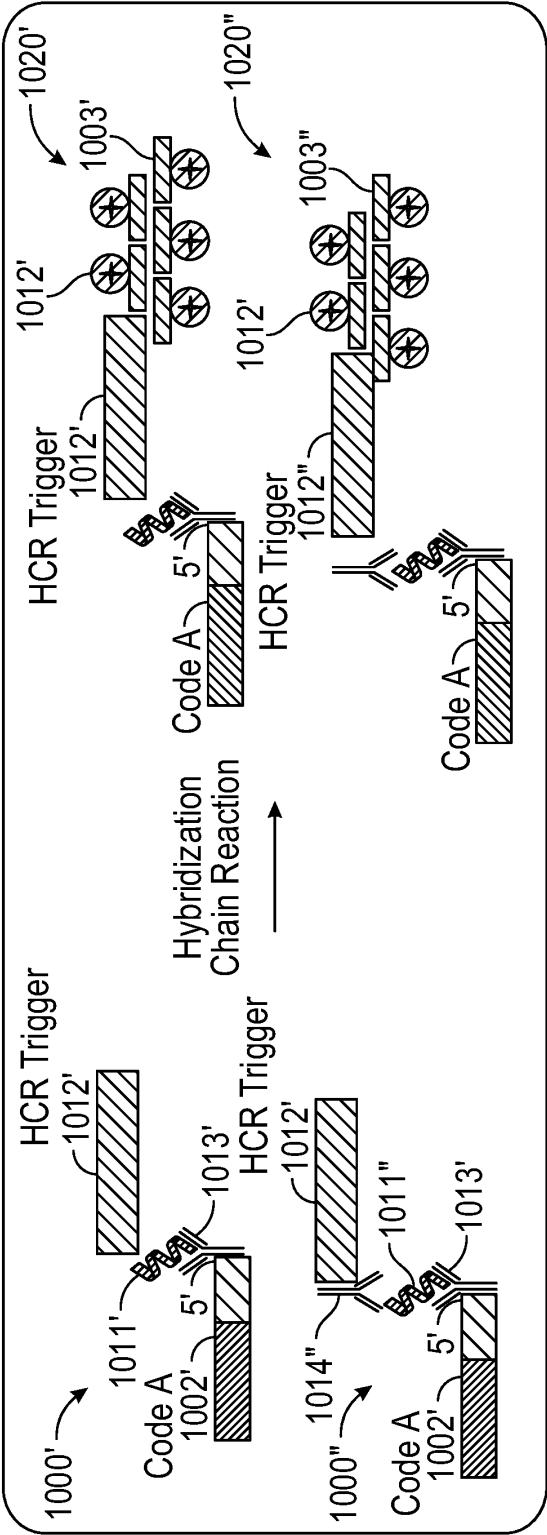


FIG. 10A

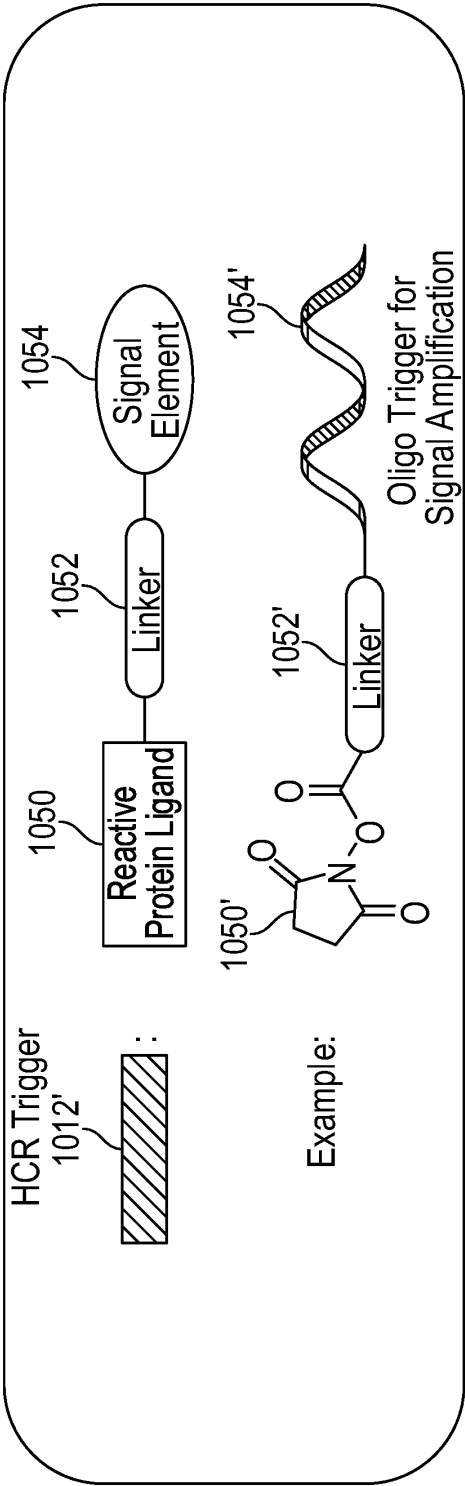


FIG. 10B

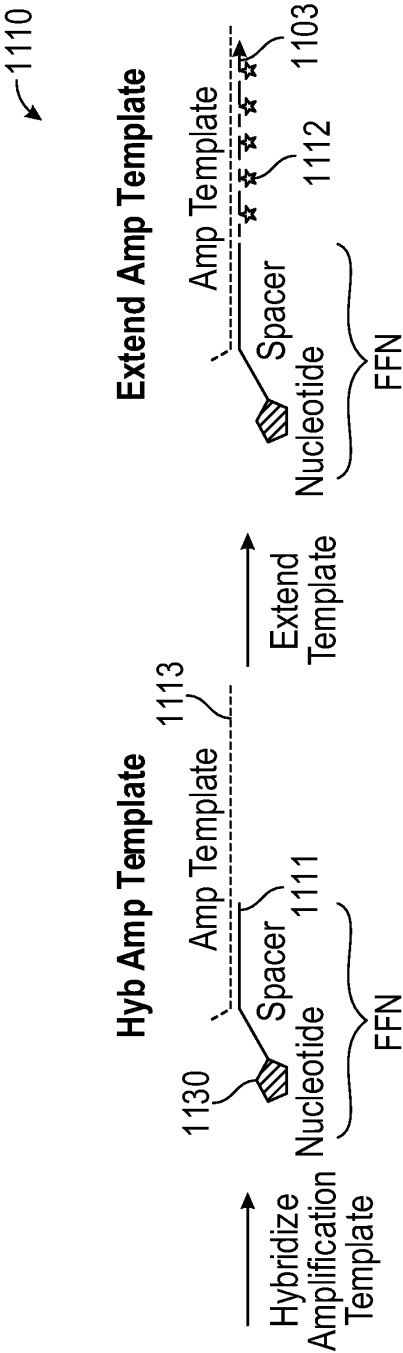


FIG. 11A

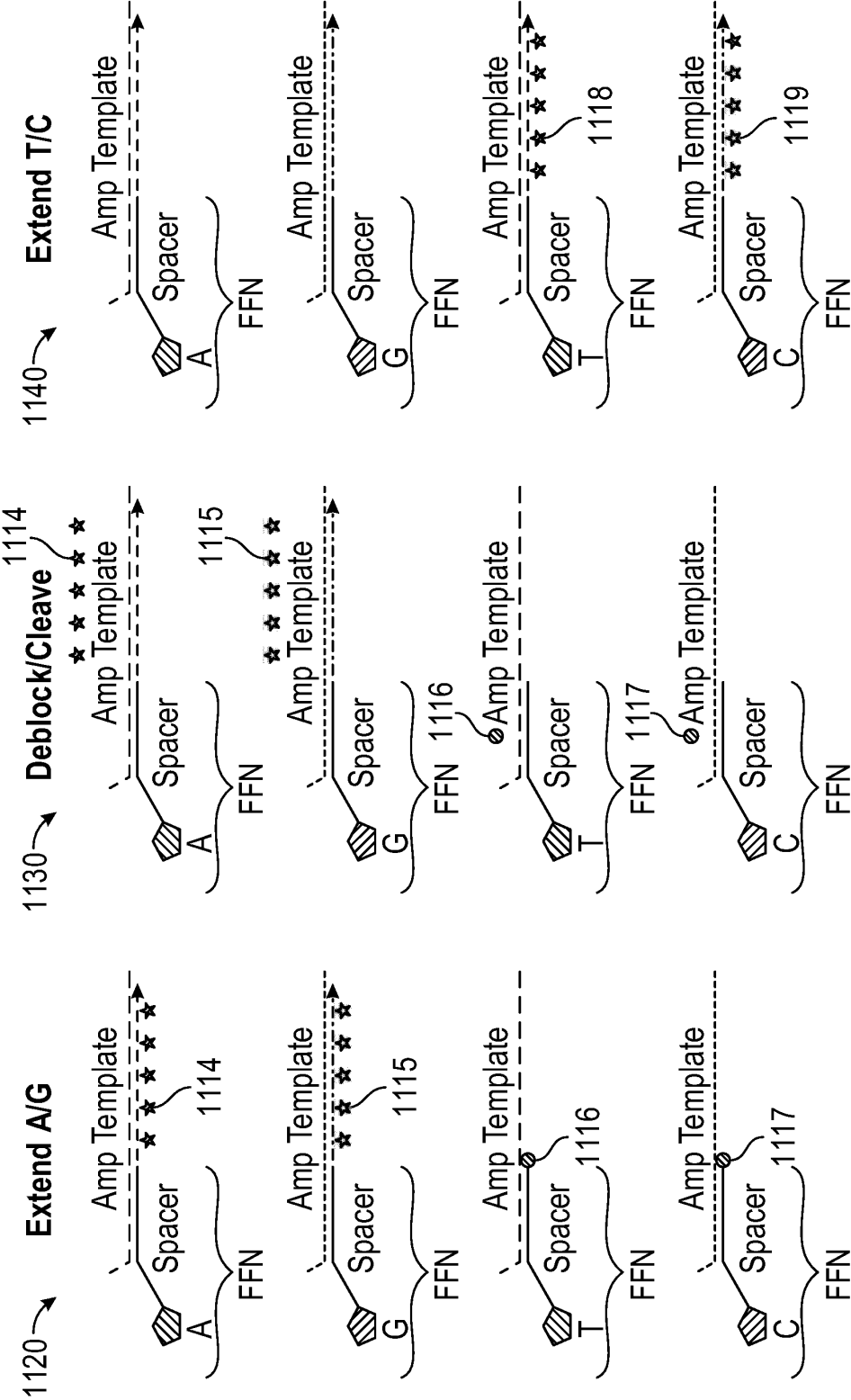


FIG. 11B

Additional SNPs
G/T-i1-Red vs. i2-Green
C/A-i2-Red vs. i1-Green

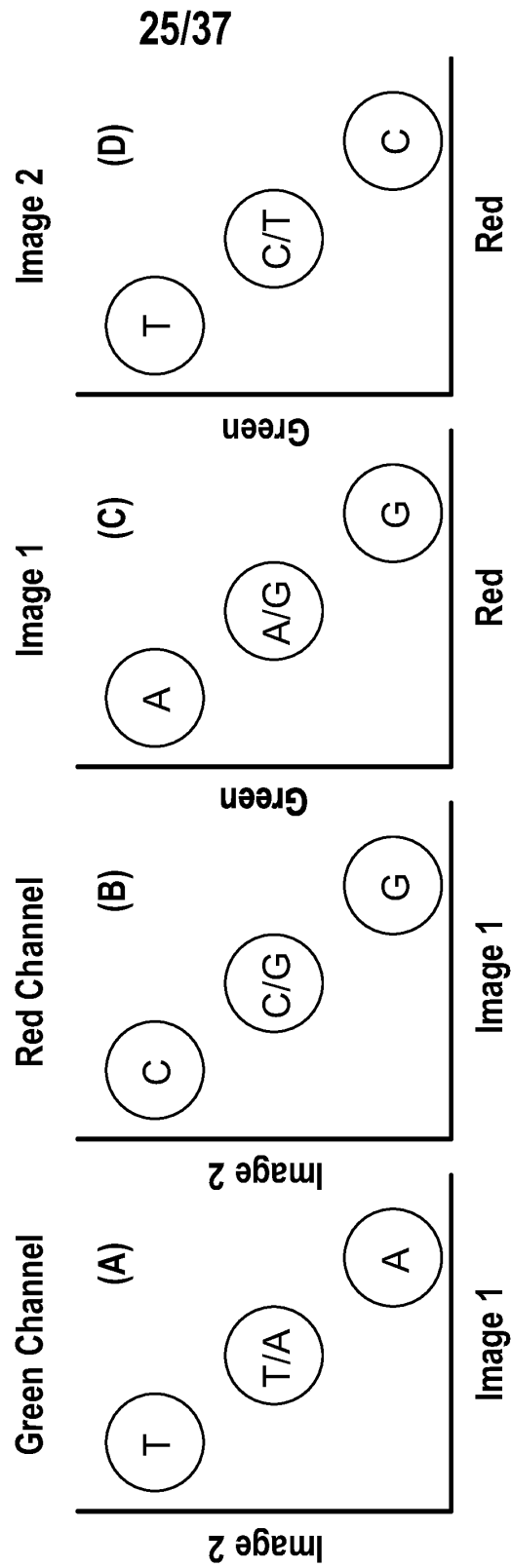


FIG. 11C

Mixed Dyes on a Single Template

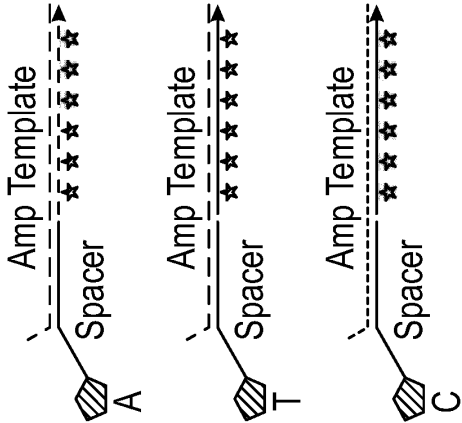


FIG. 11D

Single Dyes Multiple Levels

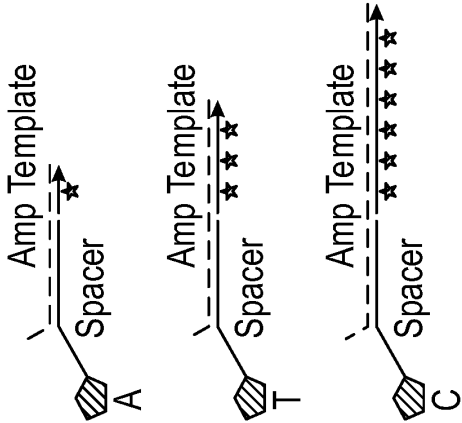


FIG. 11E

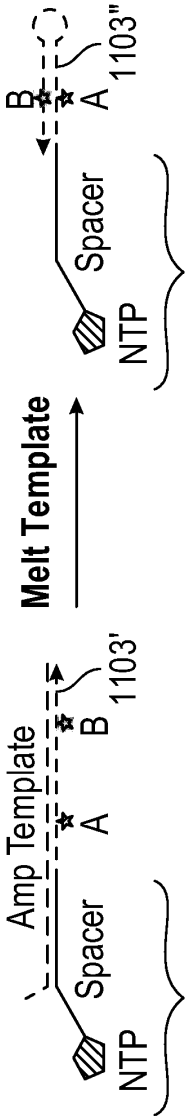


FIG. 11F

Labeling Options	
☐	Fluor A only
☐	Fluor B only
☐	2X Fluor A
☐	2X Fluor B
☐	Fluor A + Fluor B
☐	Fluor A + Fluor B - FRET
☐	Fluor A + Quencher A
☐	Fluor B + Quencher B

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Template with 5 Branch Points

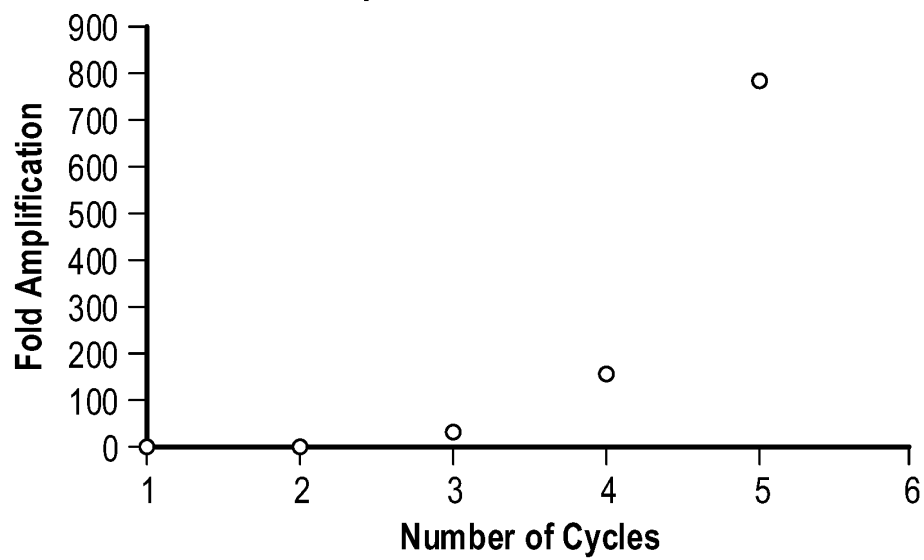


FIG. 11I

Template with 2 Branch Points

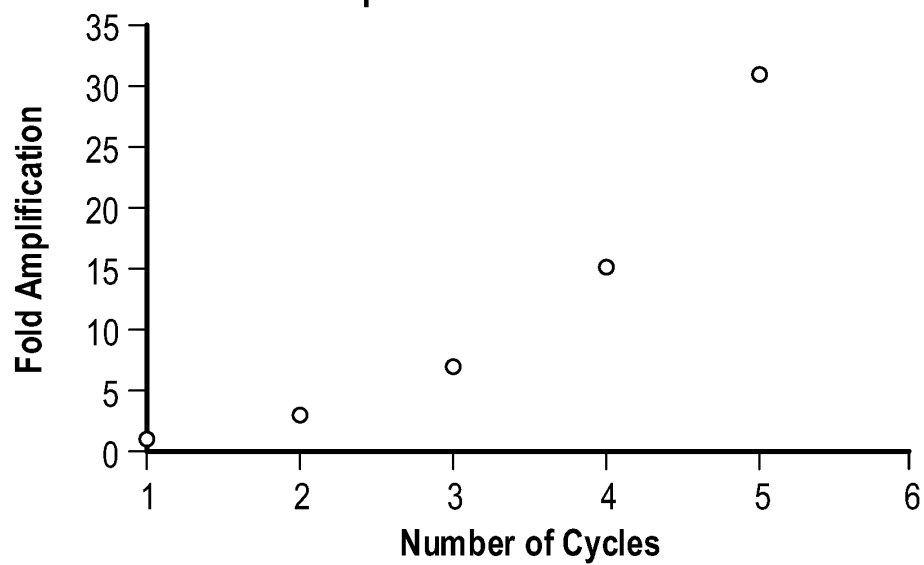


FIG. 11J

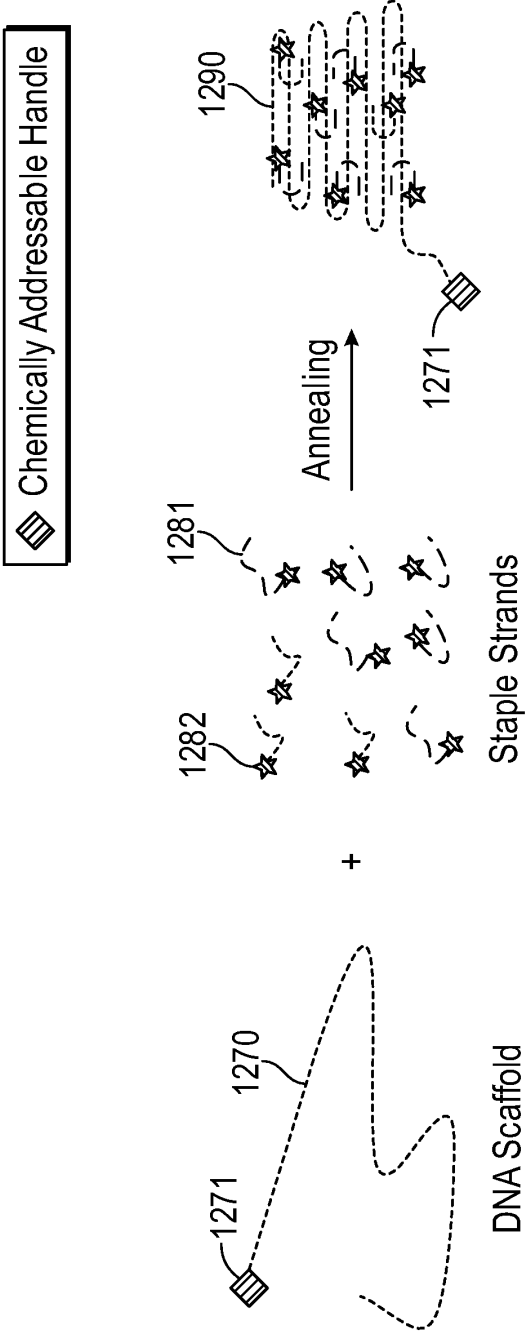


FIG. 12

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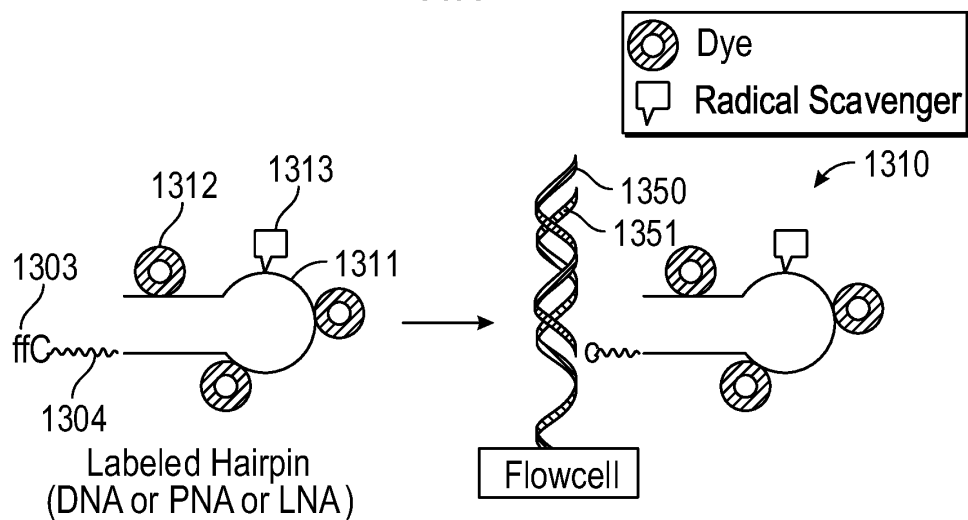


FIG. 13A

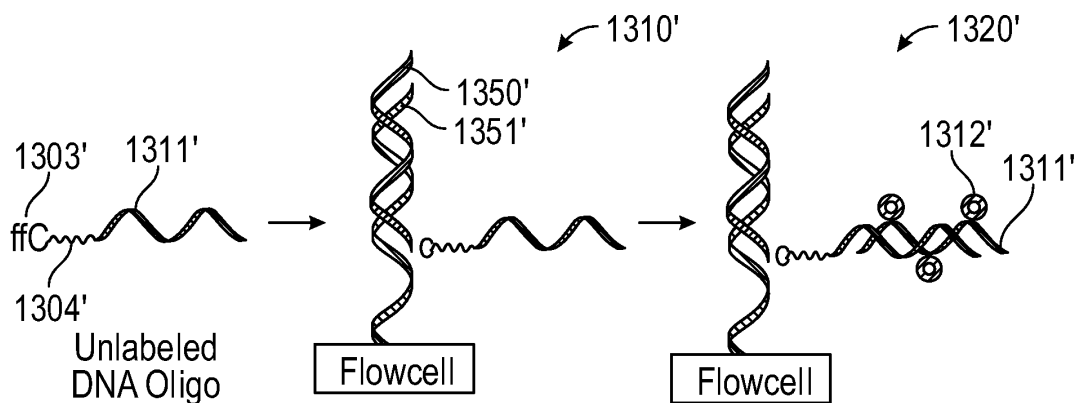


FIG. 13B

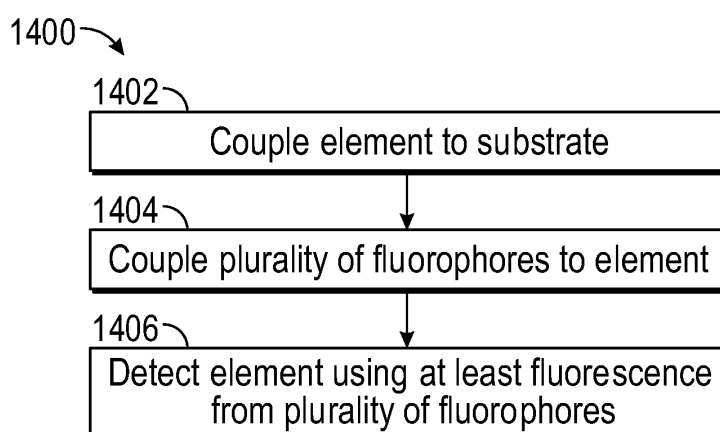


FIG. 14

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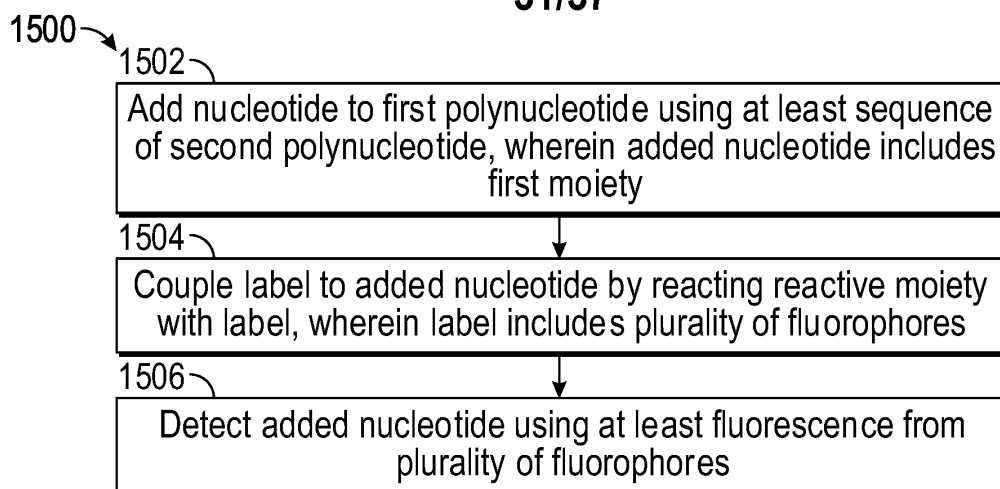


FIG. 15A

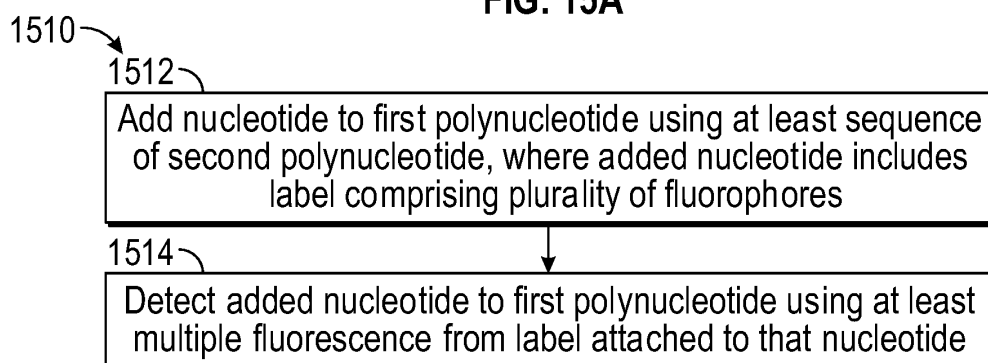


FIG. 15B

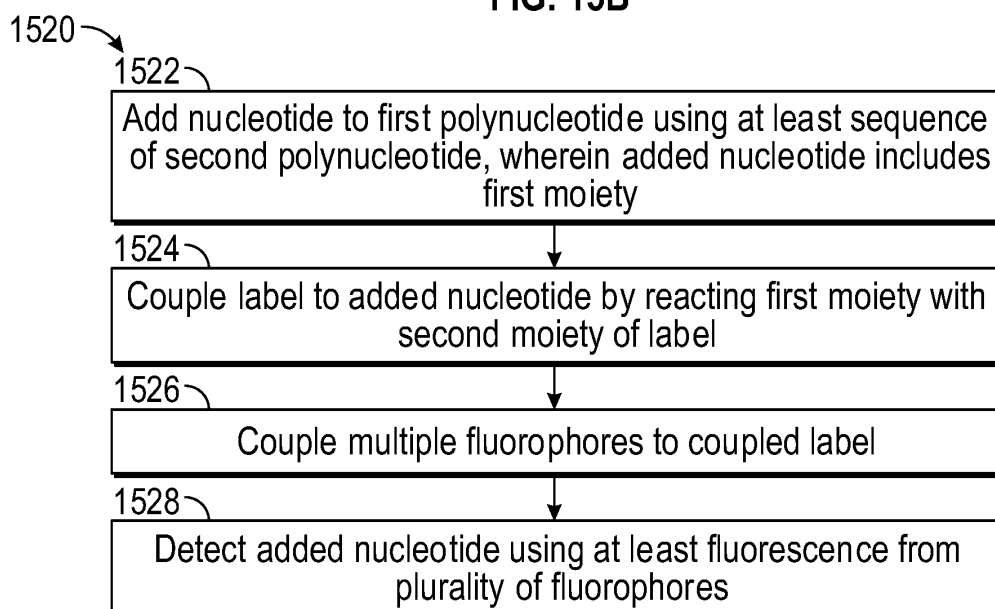


FIG. 15C

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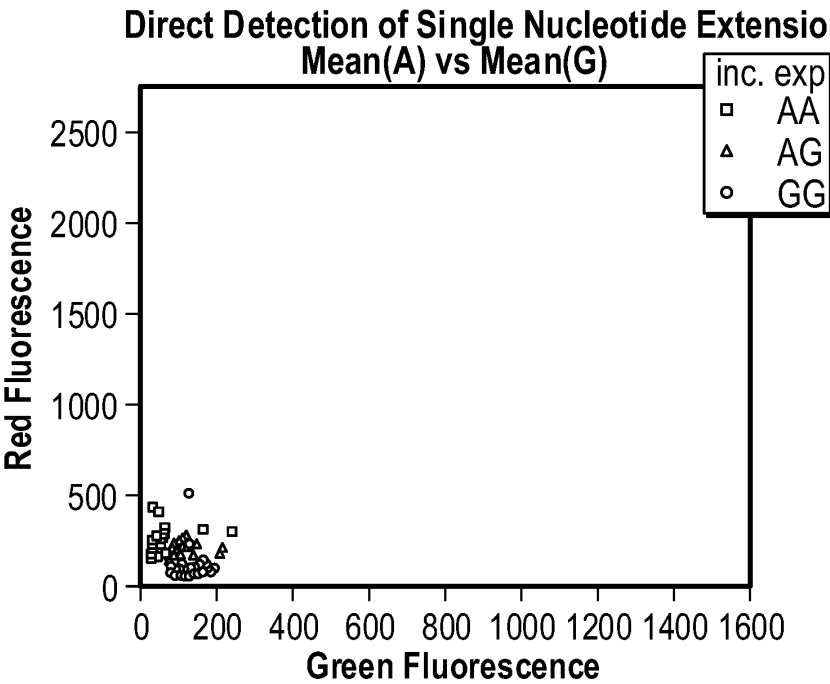


FIG. 16A

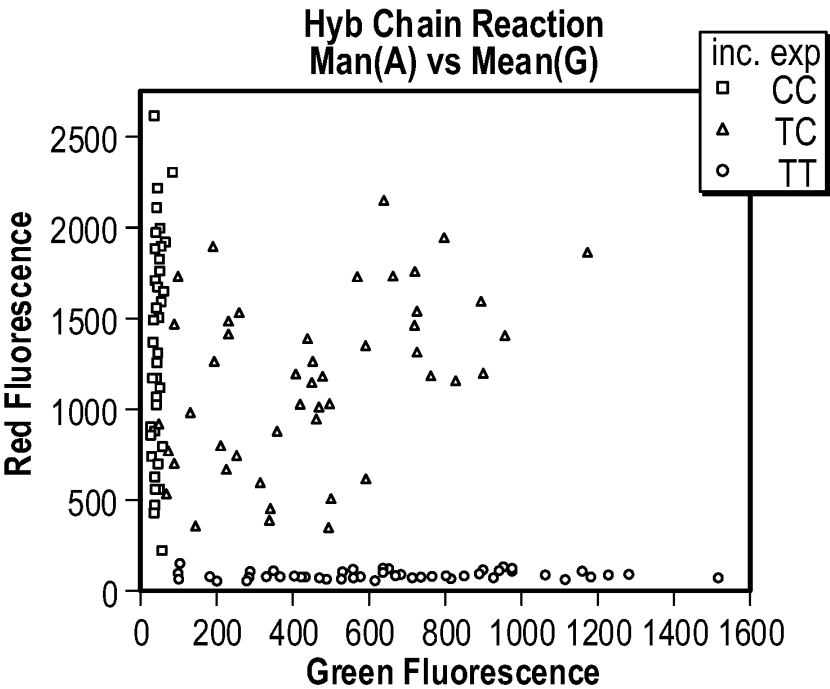


FIG. 16B

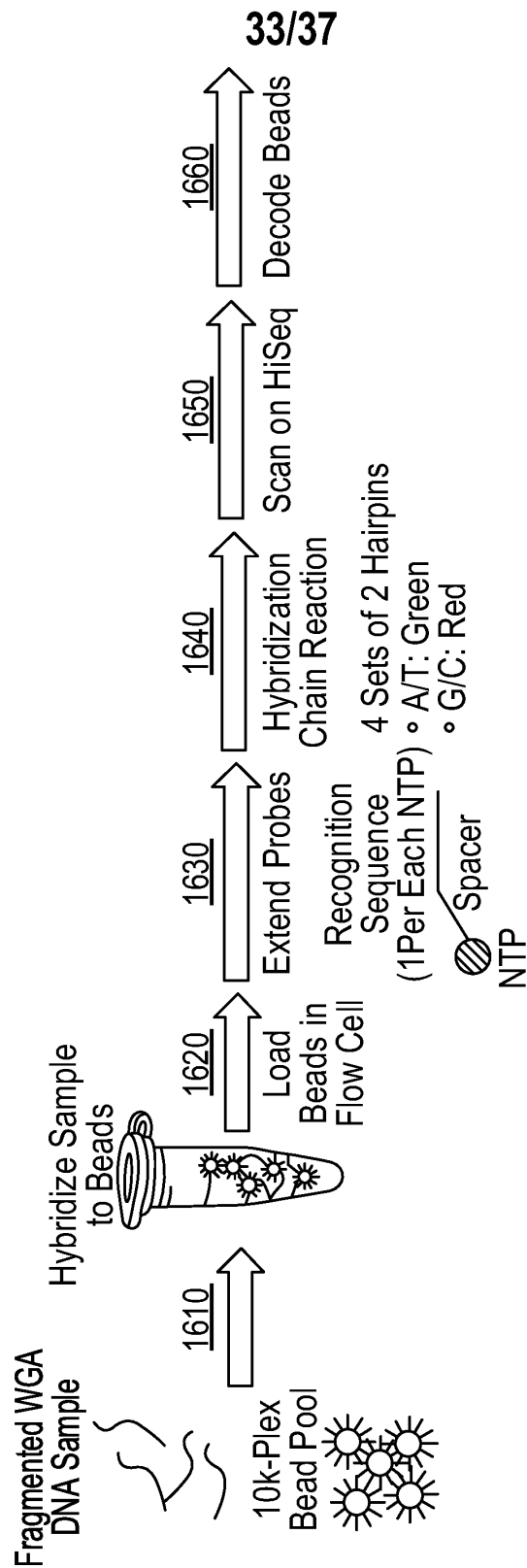


FIG. 16C

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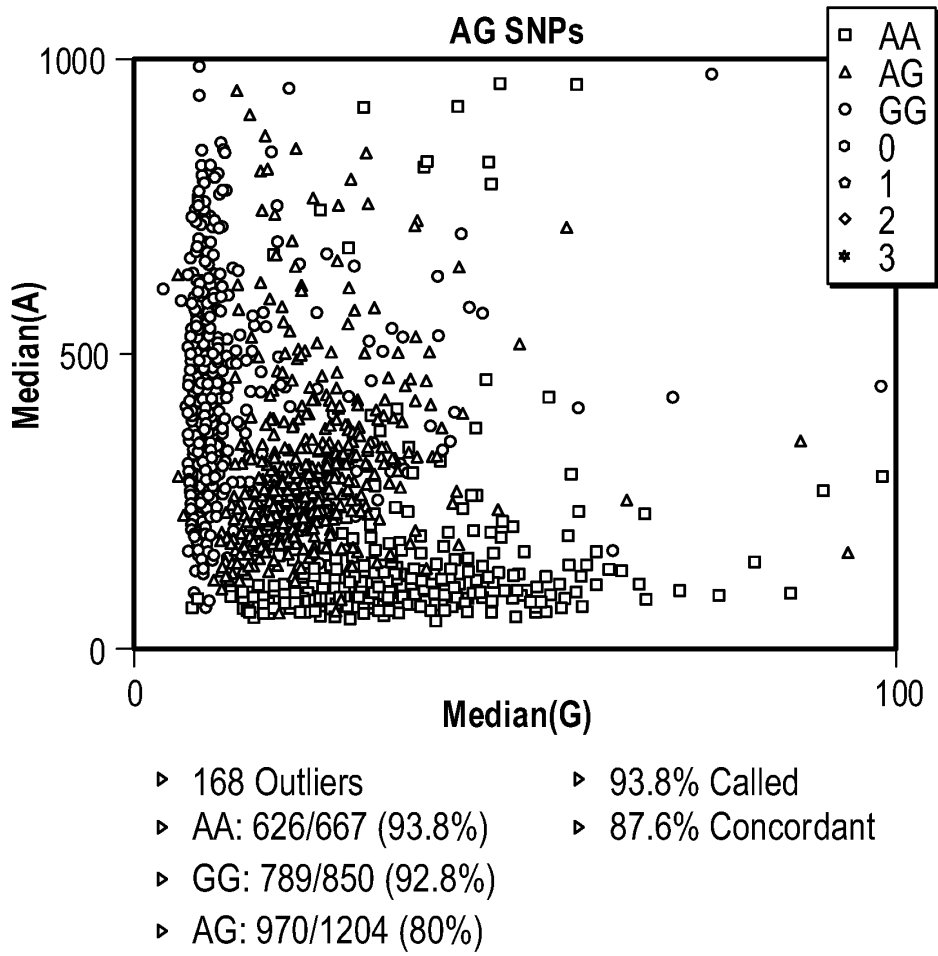
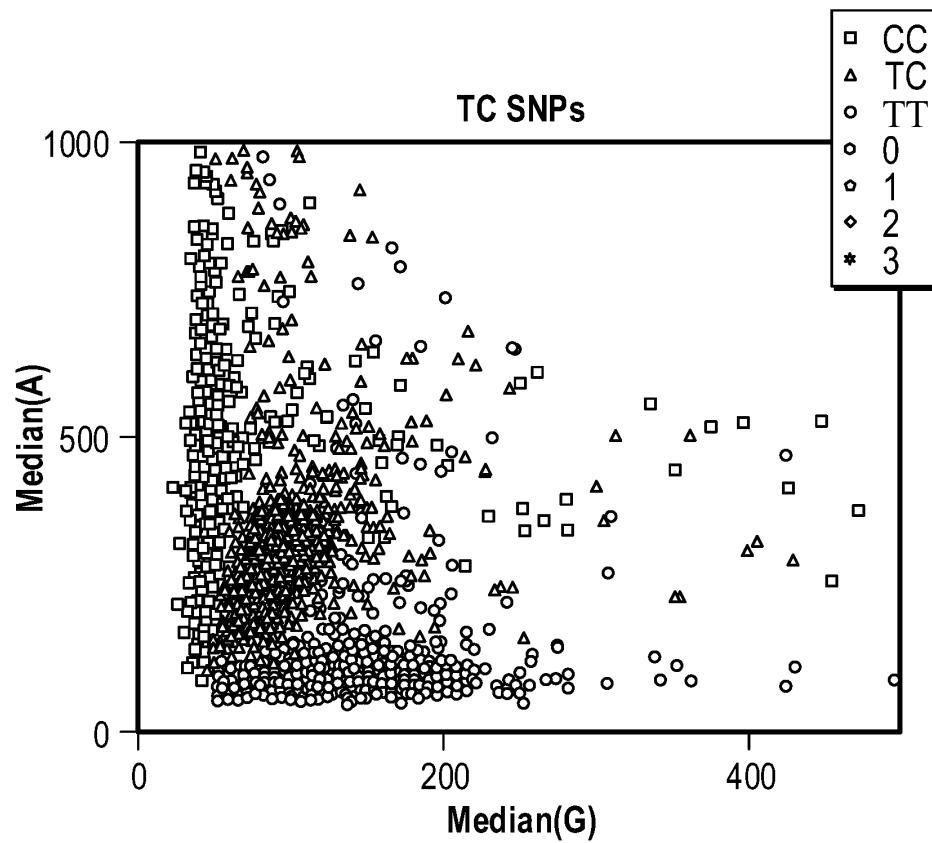


FIG. 16D

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- 252 Outliers
- CC: 1054/1111 (94.9%)
- TT: 932/988 (94.3%)
- TC: 1223/1517 (80.6%)
- 93.5% Called
- 88.7% Concordant

FIG. 16E

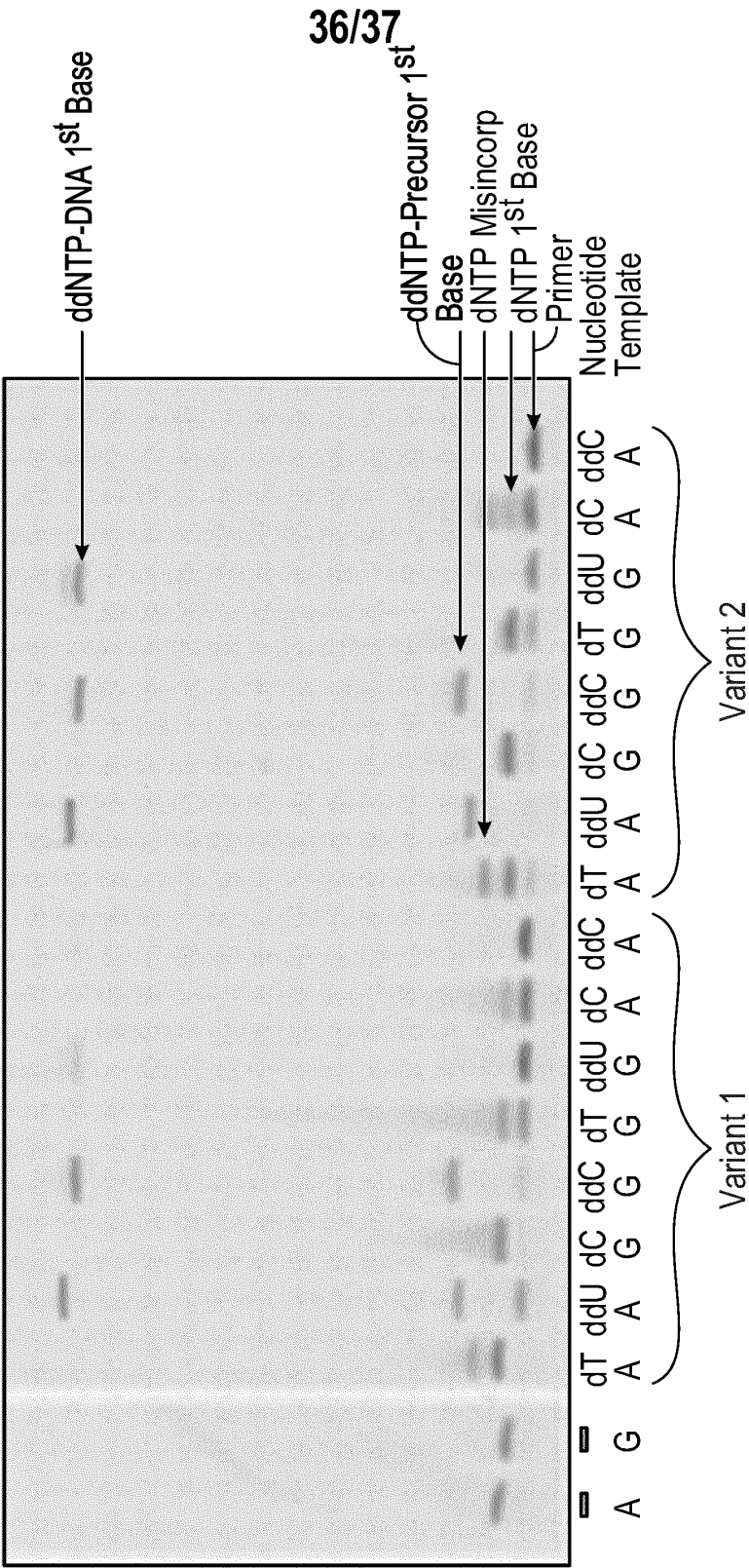


FIG. 16F

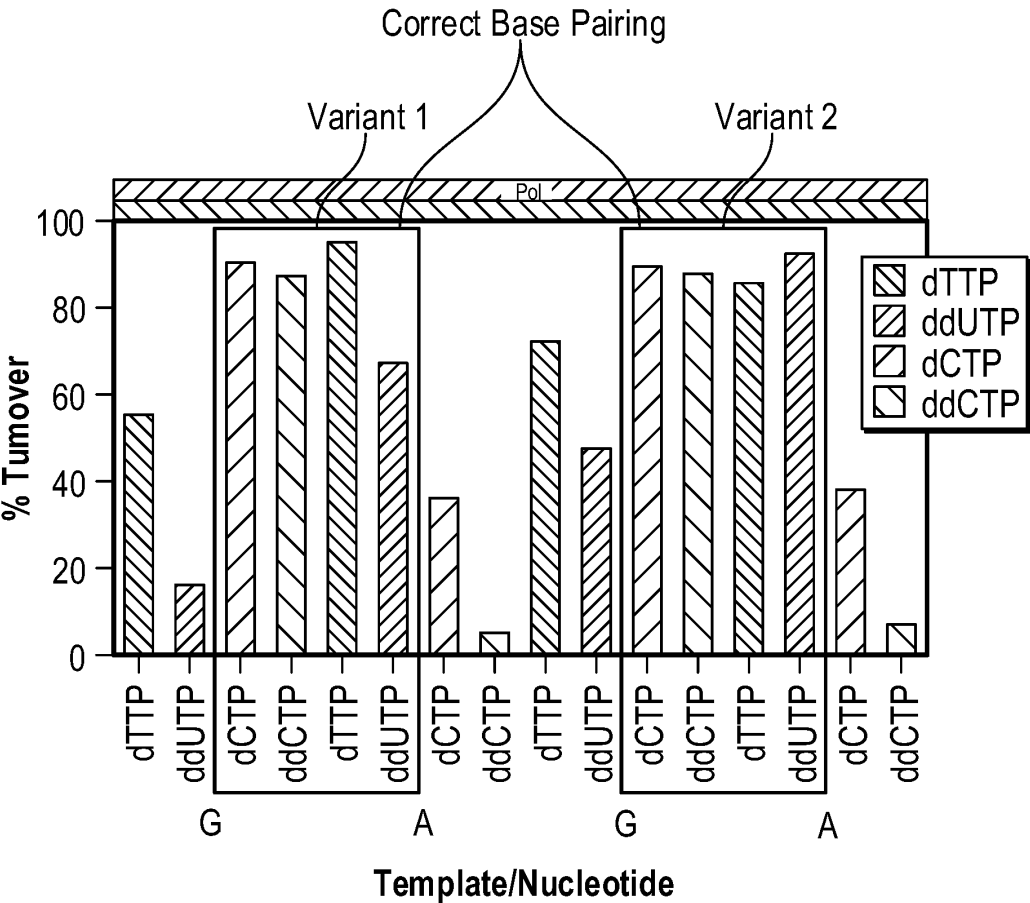


FIG. 16G