

Key to Annotating Functional Elements in Figures

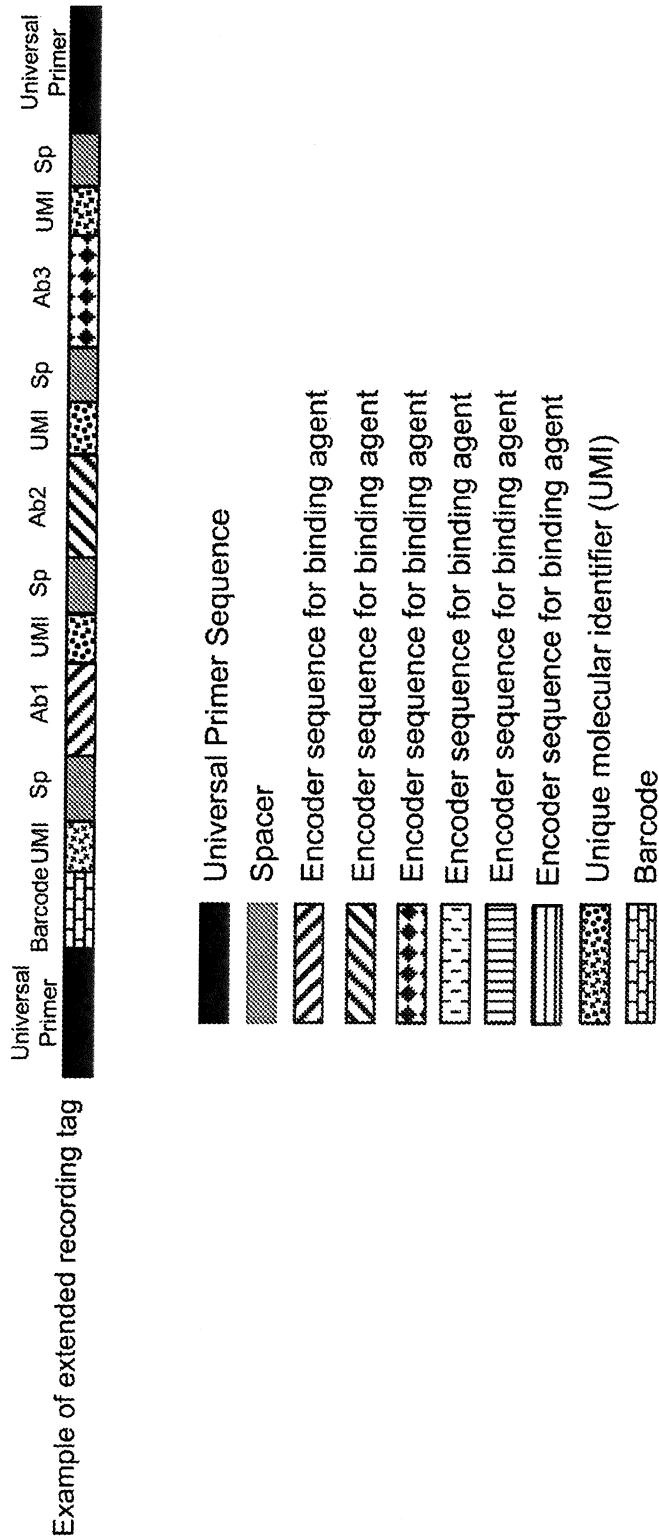


Fig. 1A

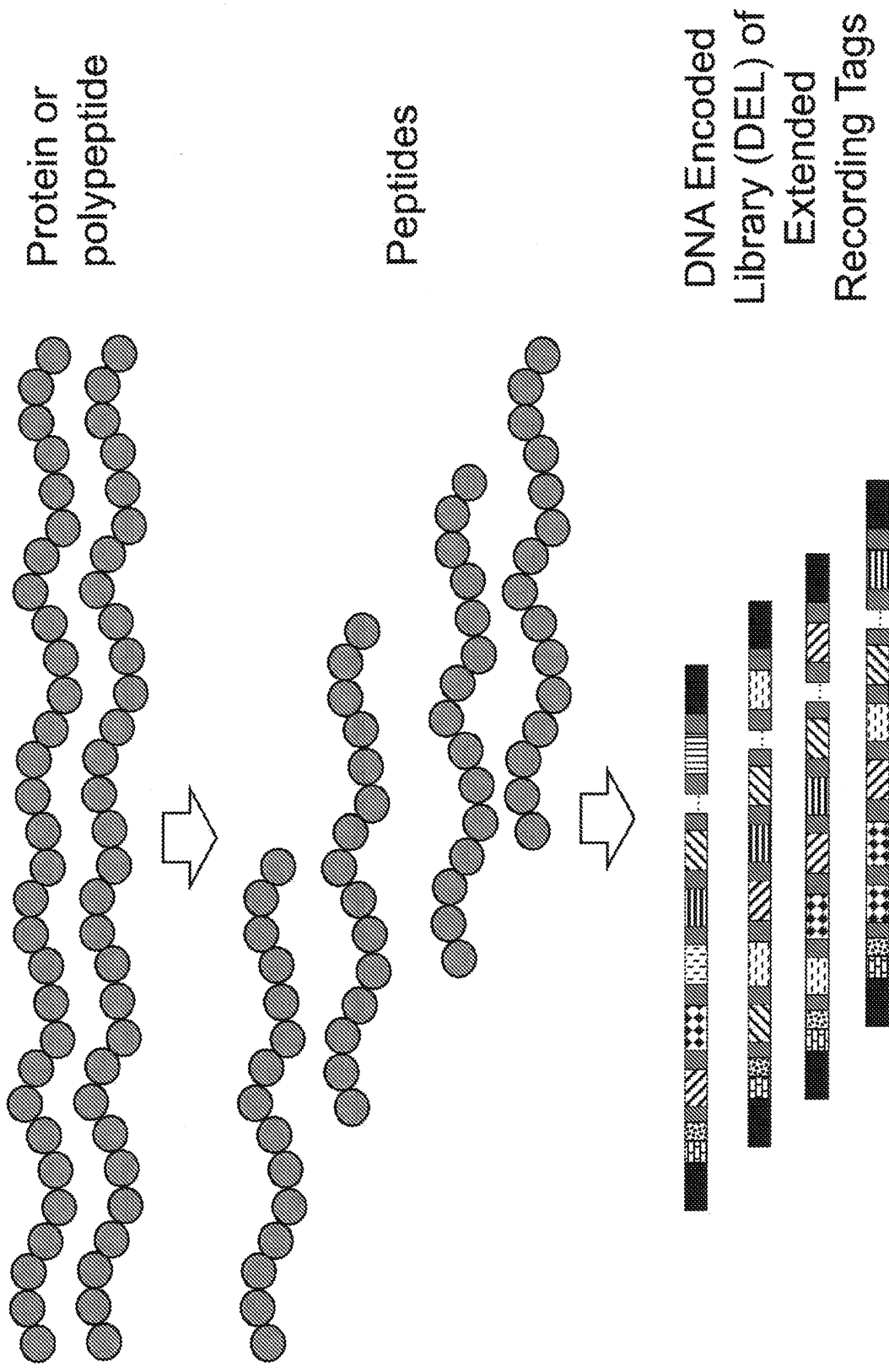
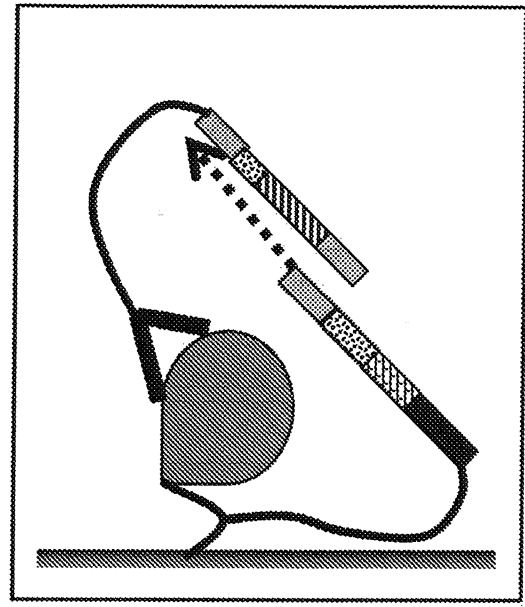
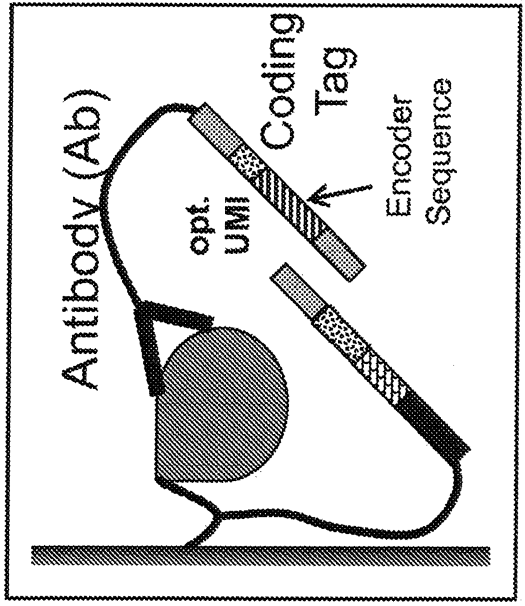


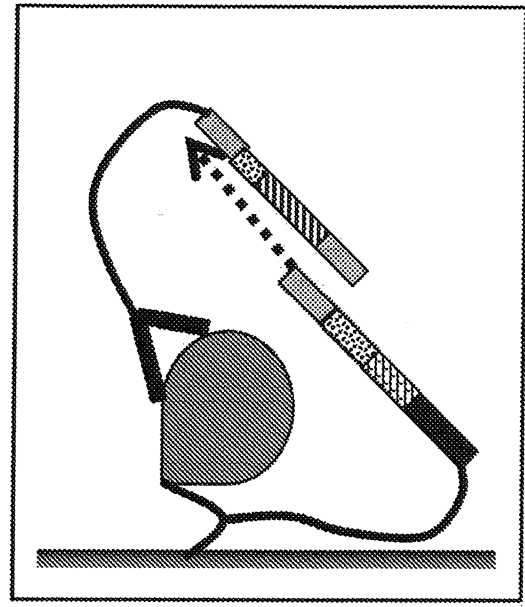
Fig. 1B



Step 1. Immobilize protein with associated recording tag

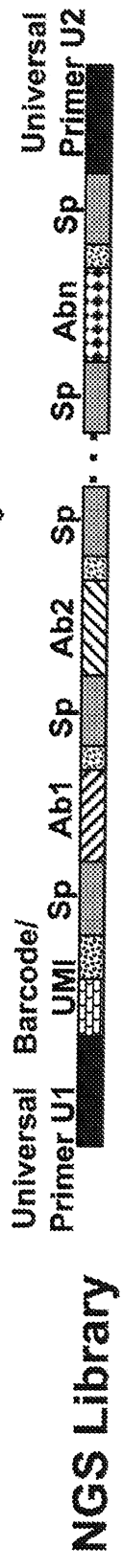


Step 2. Bind antibody-coding tag



Step 3. Transfer information from coding tag to recording tag

Cycle n times

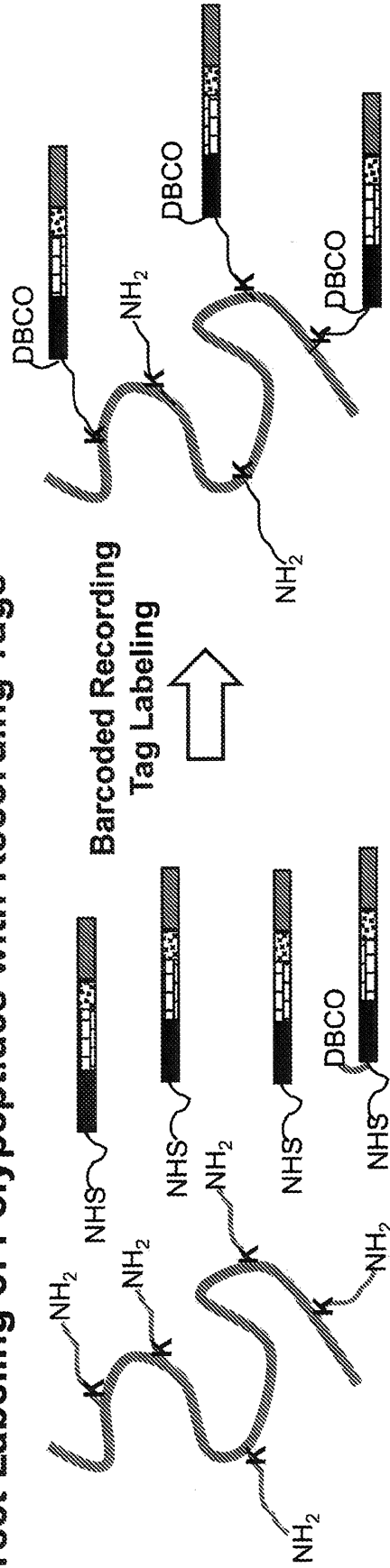


NGS Library

Extended Recording Tag: DNA Encoded Library of Binding Events

Fig. 2A

Direct Labeling of Polypeptides with Recording Tags



Labeling of alkyne pre-labeled Polypeptides with Recording Tags

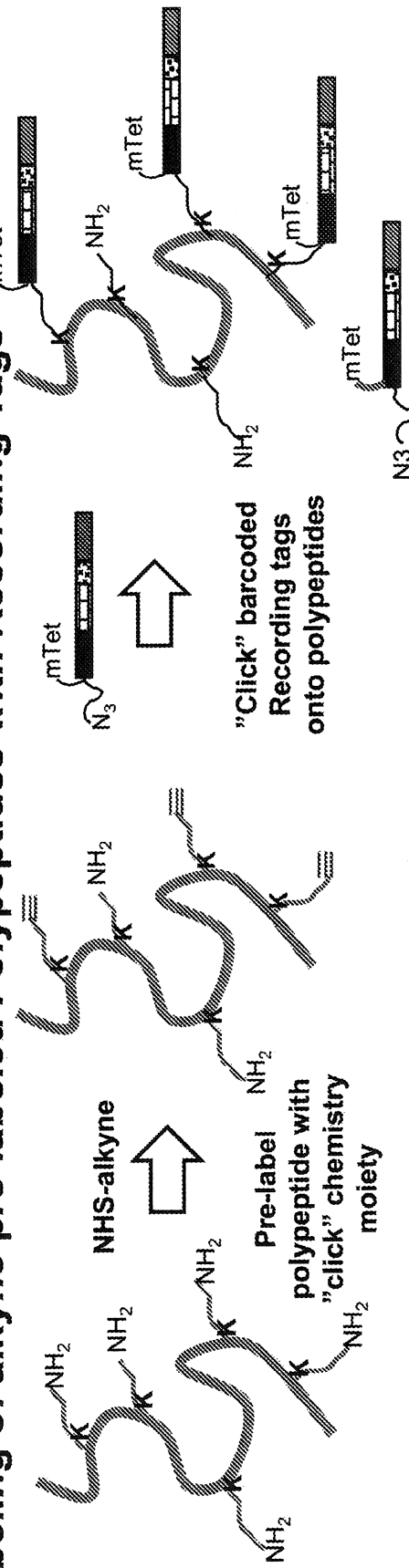


Fig. 2B

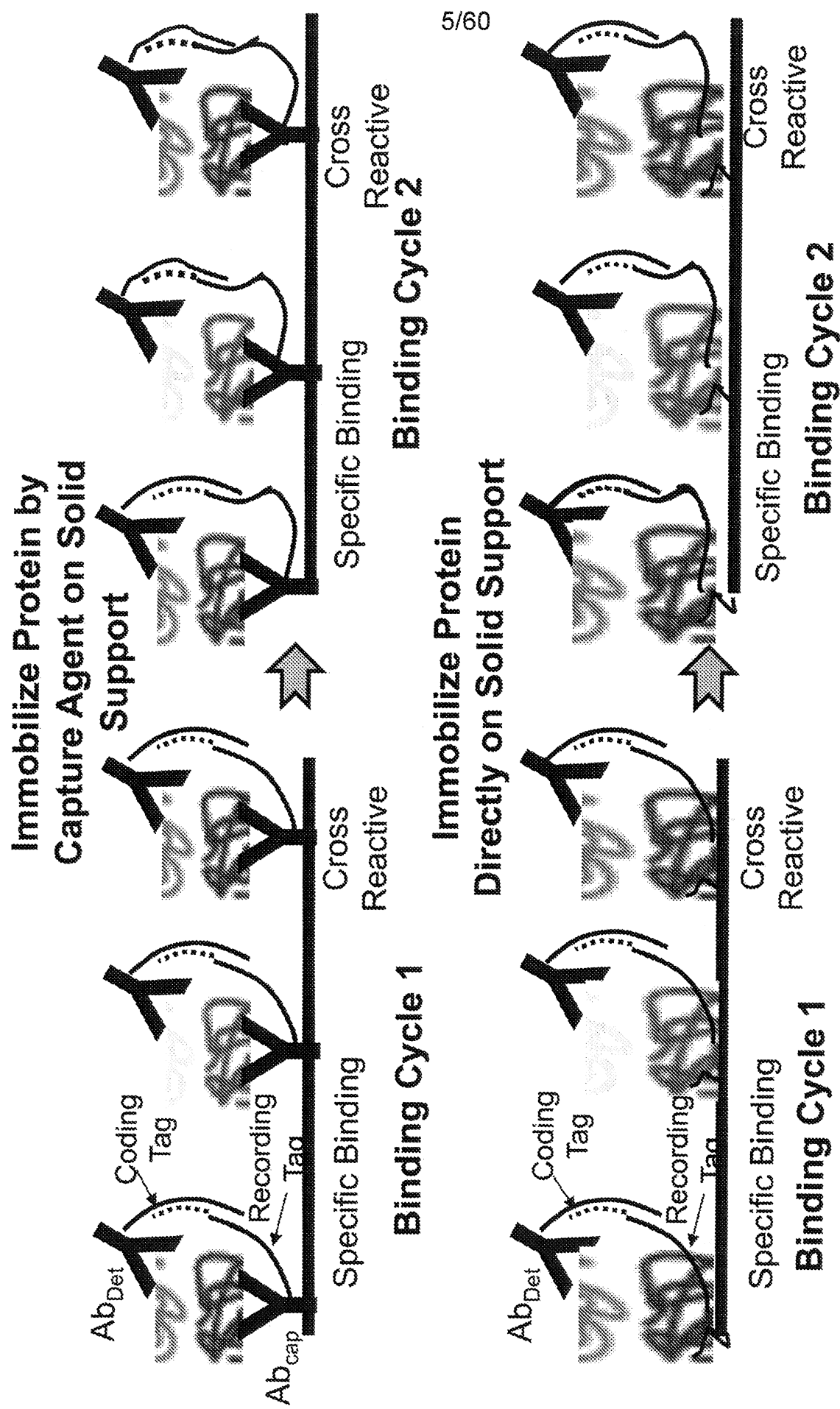


Fig. 2C

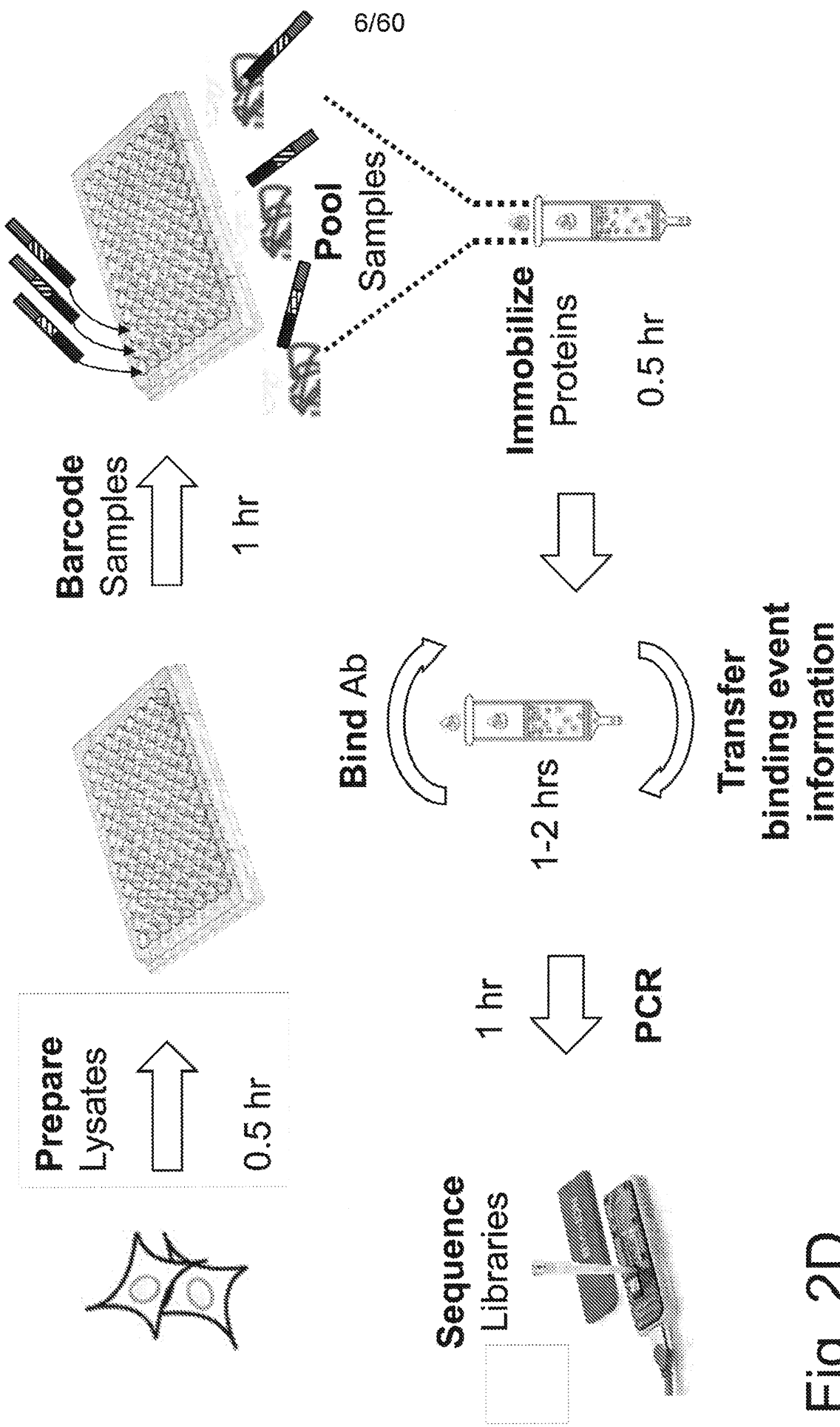
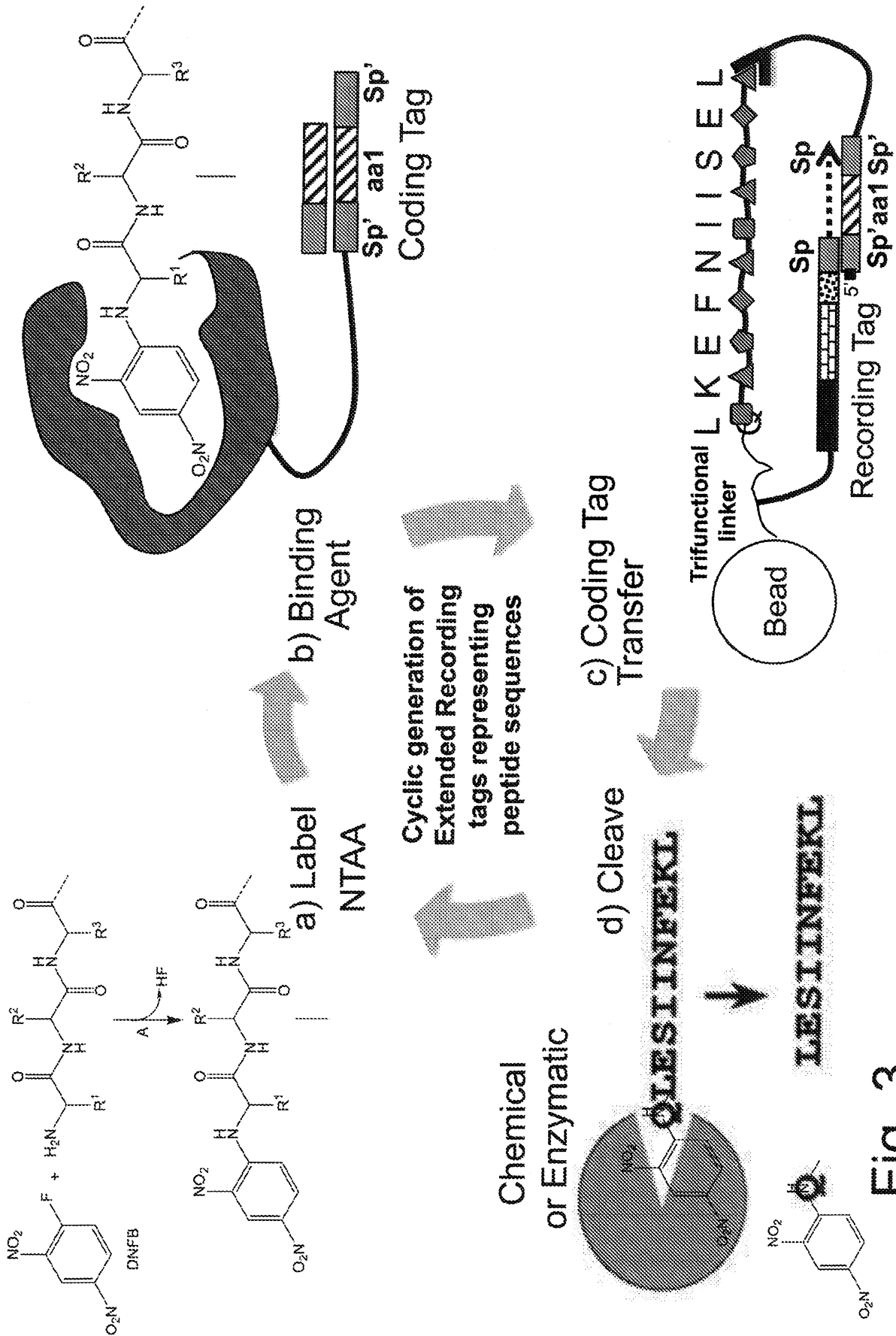


Fig. 2D



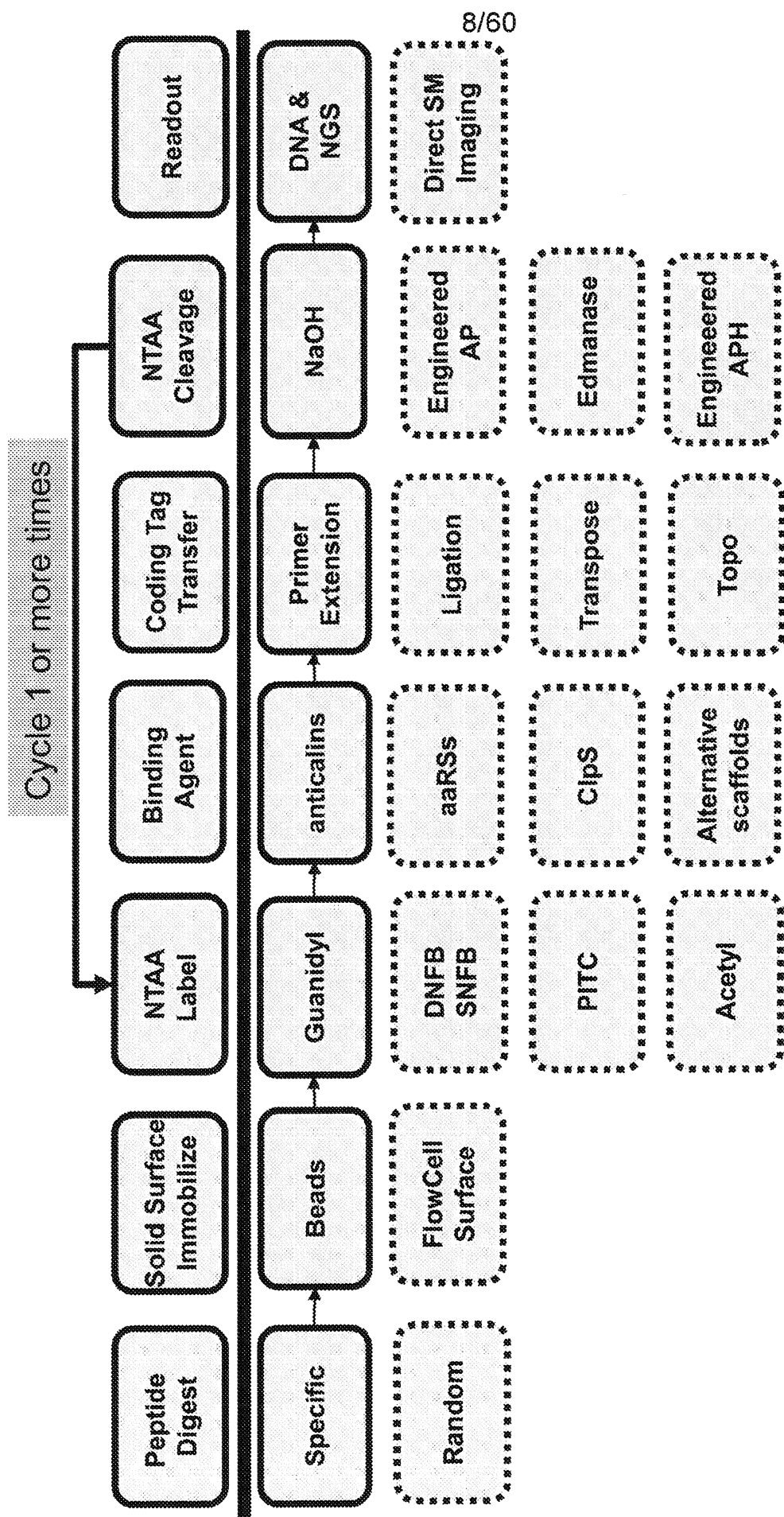


Fig. 4A

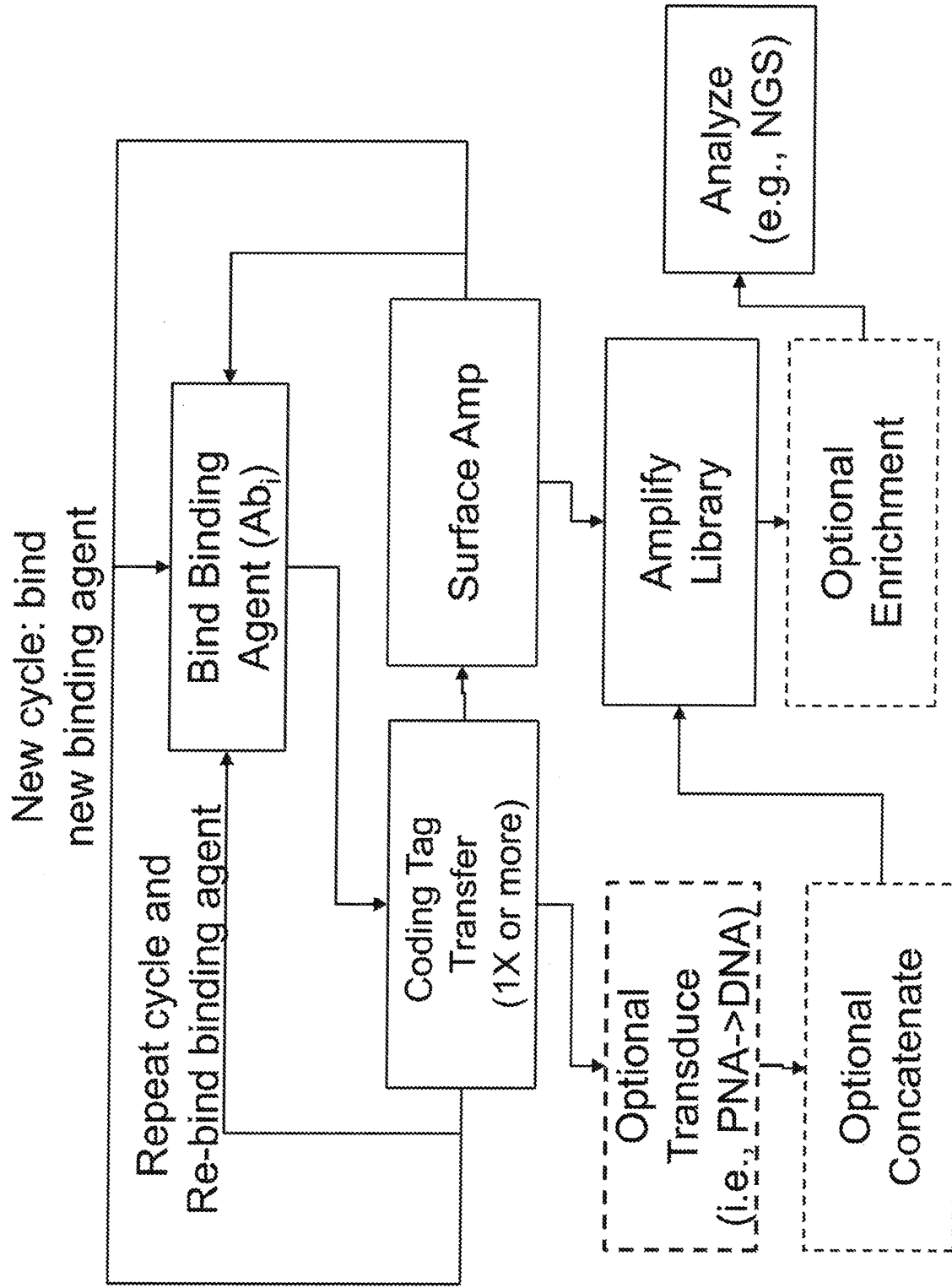
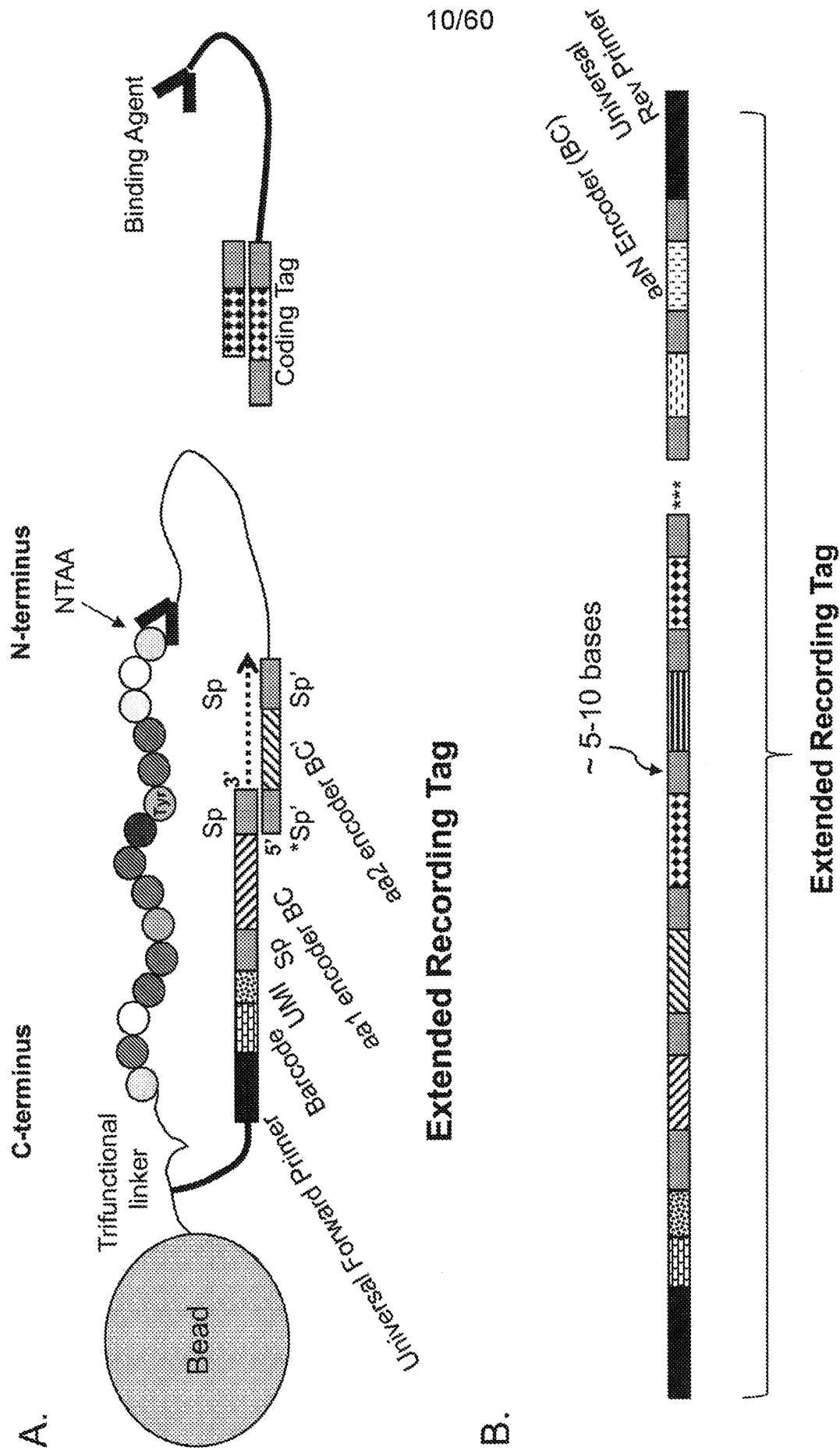


Fig. 4B



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Fig. 5

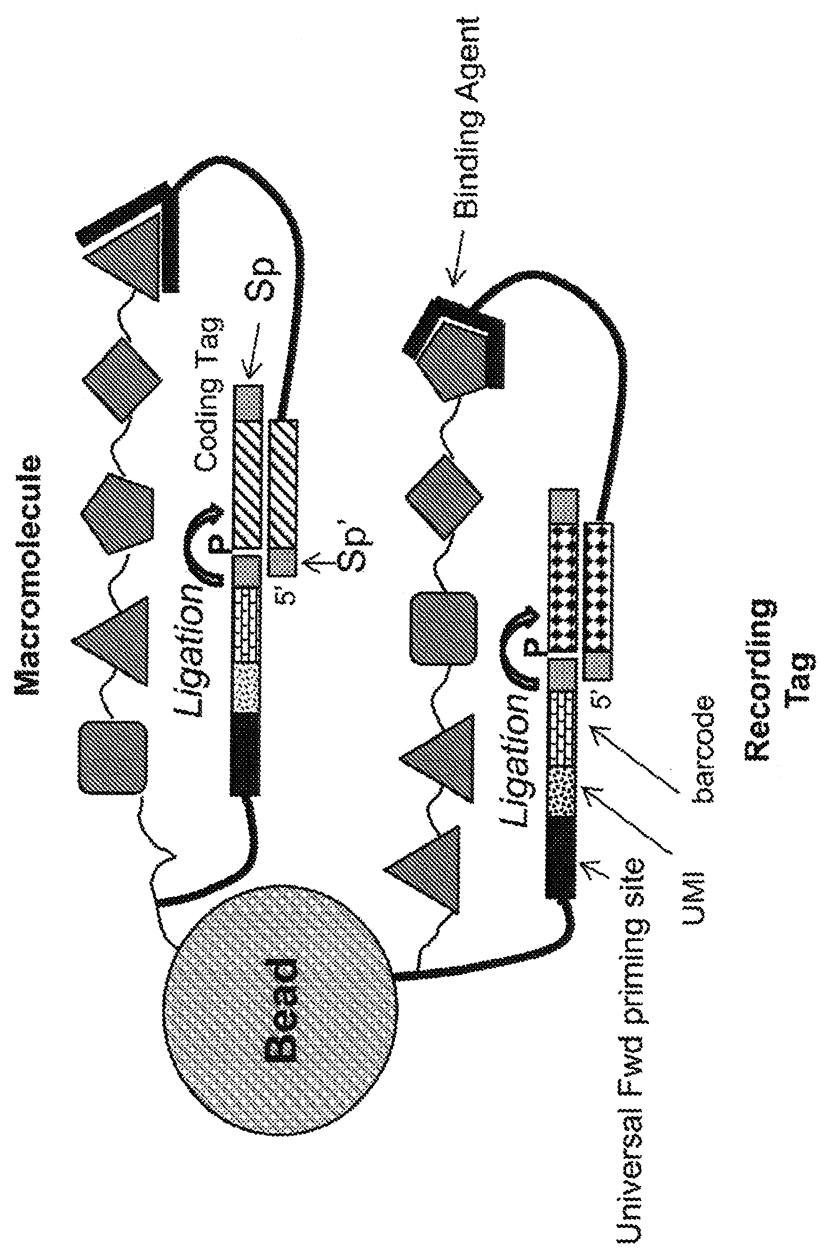


Fig. 6

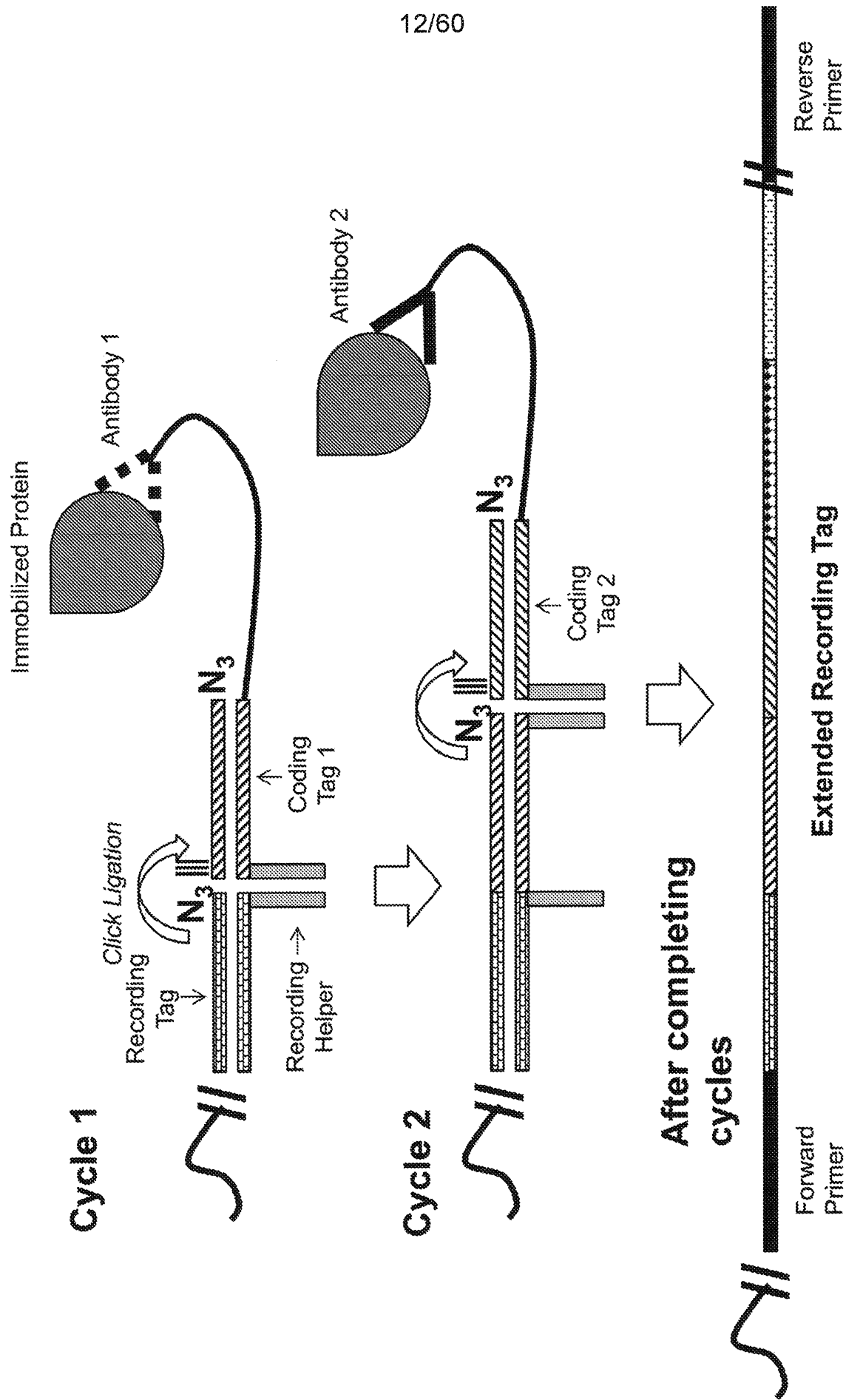


Fig. 7

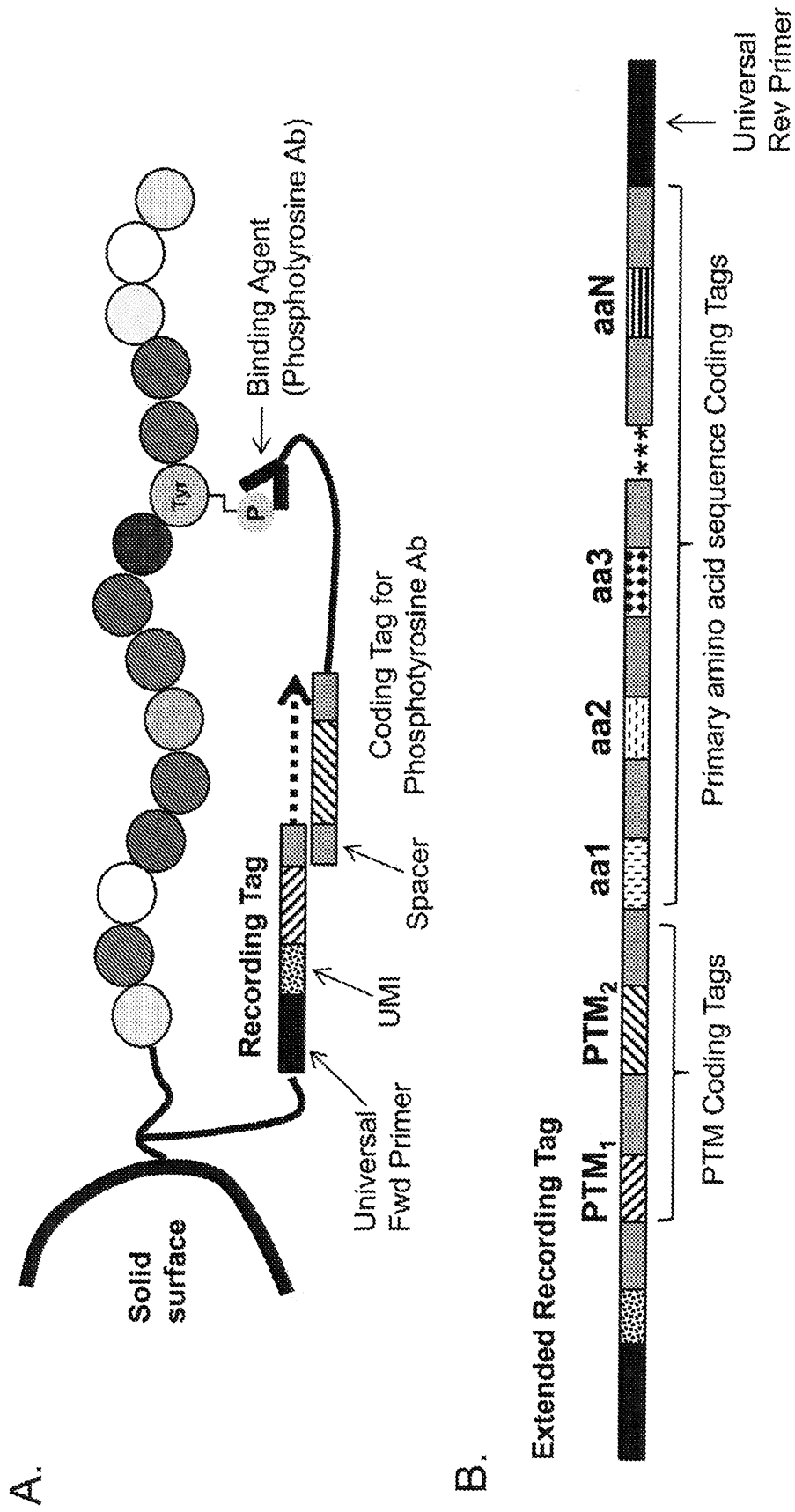


Fig. 8

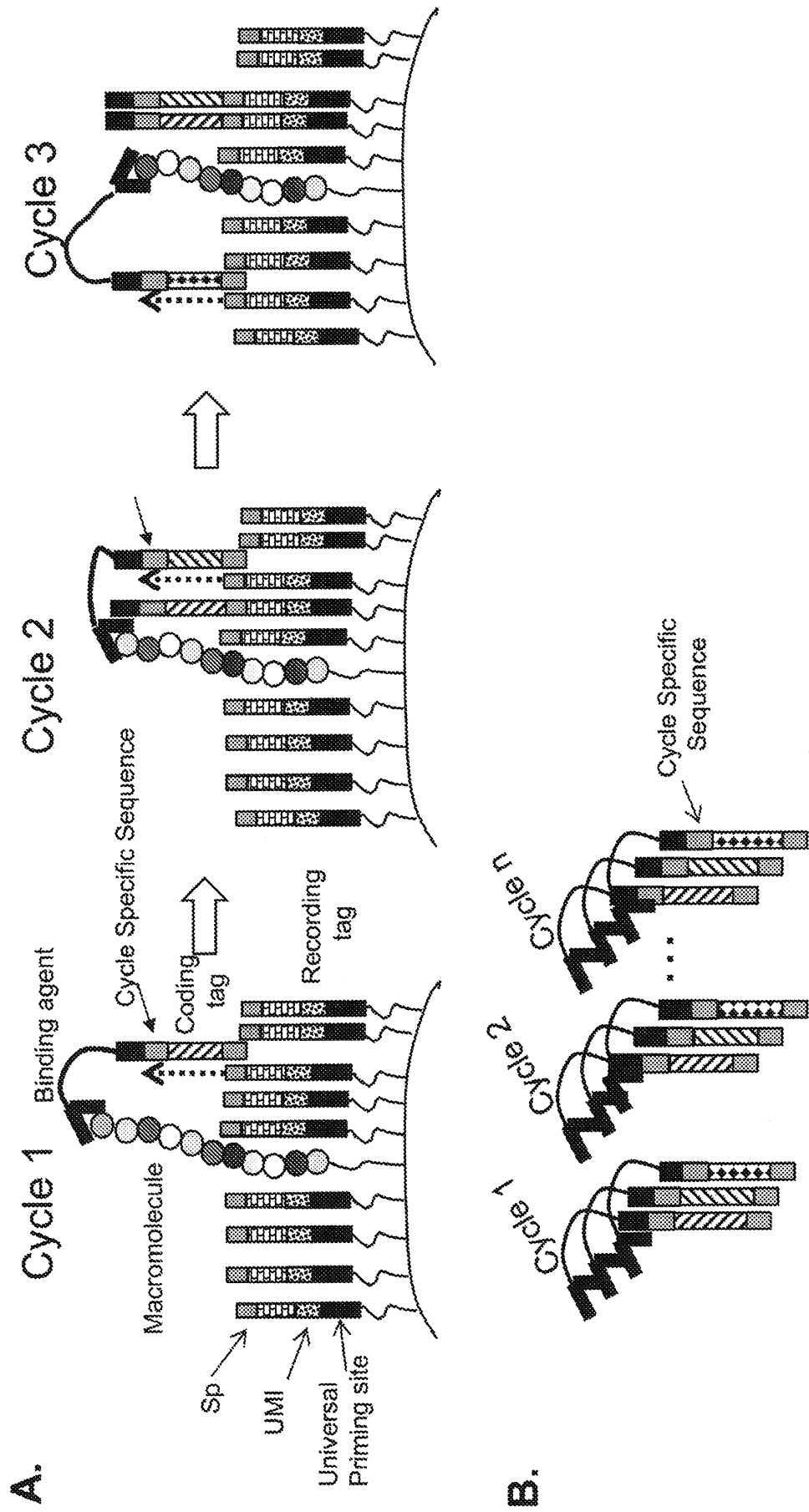


Fig. 9

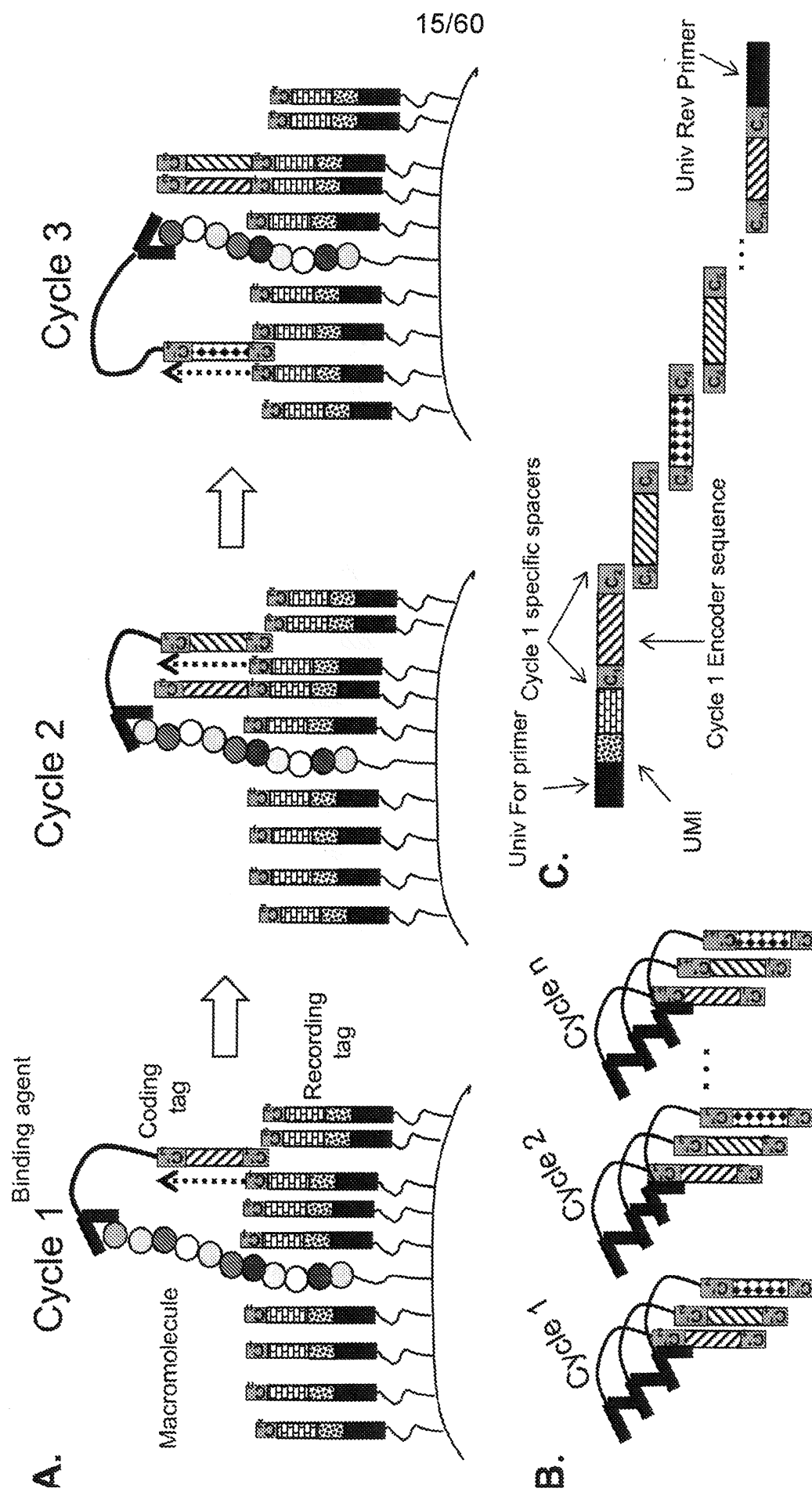


Fig. 10

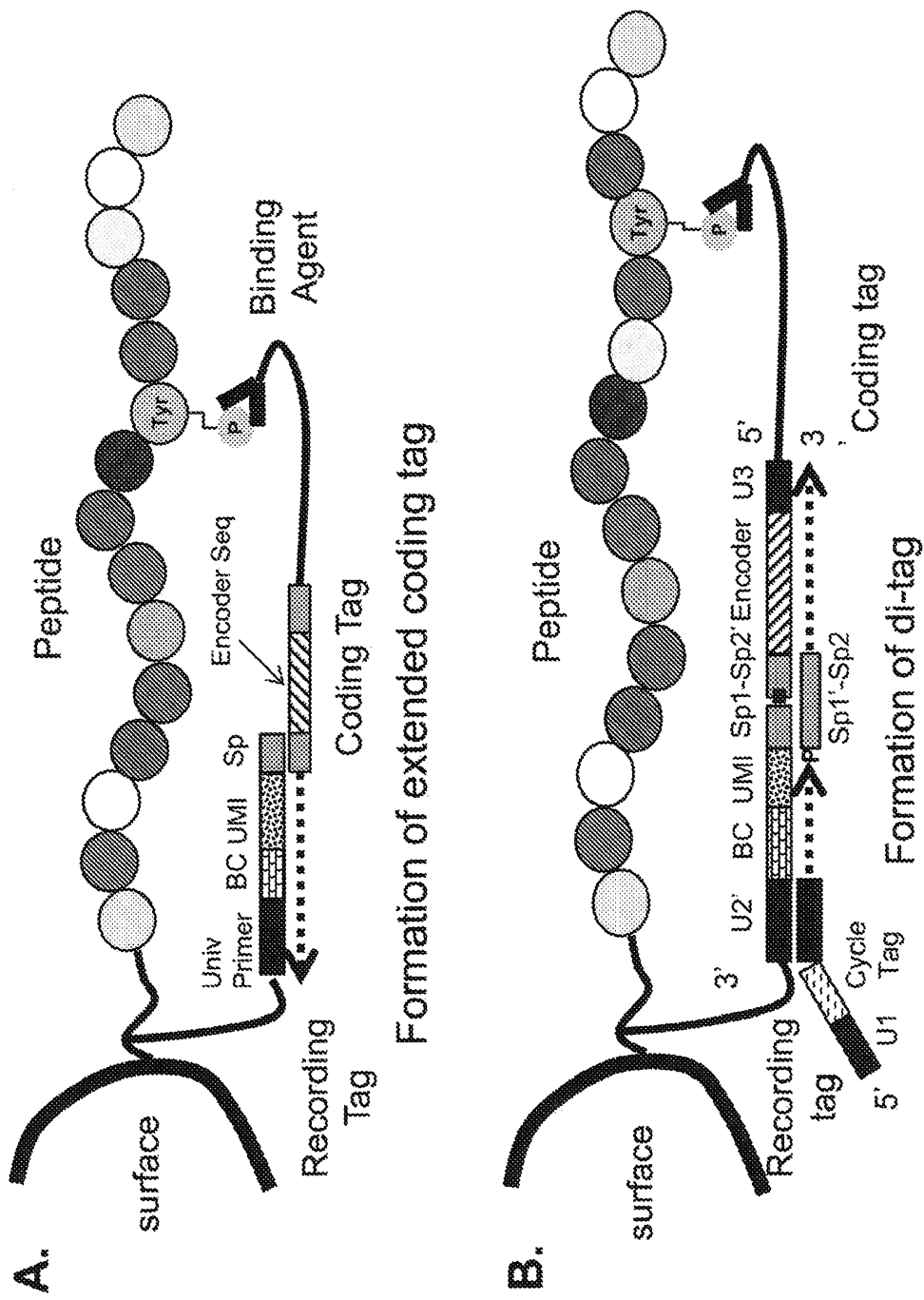


Fig. 11

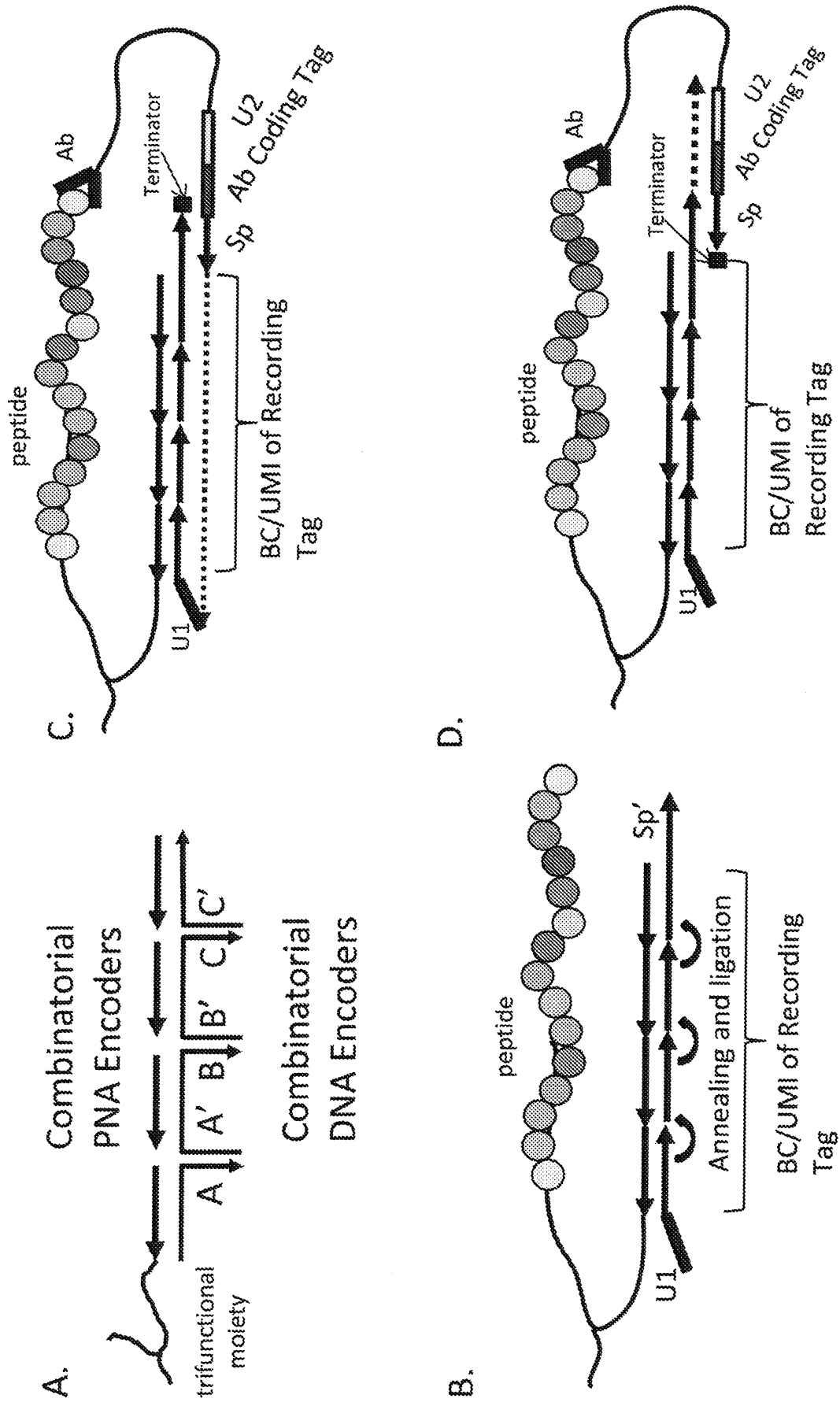


Fig. 12

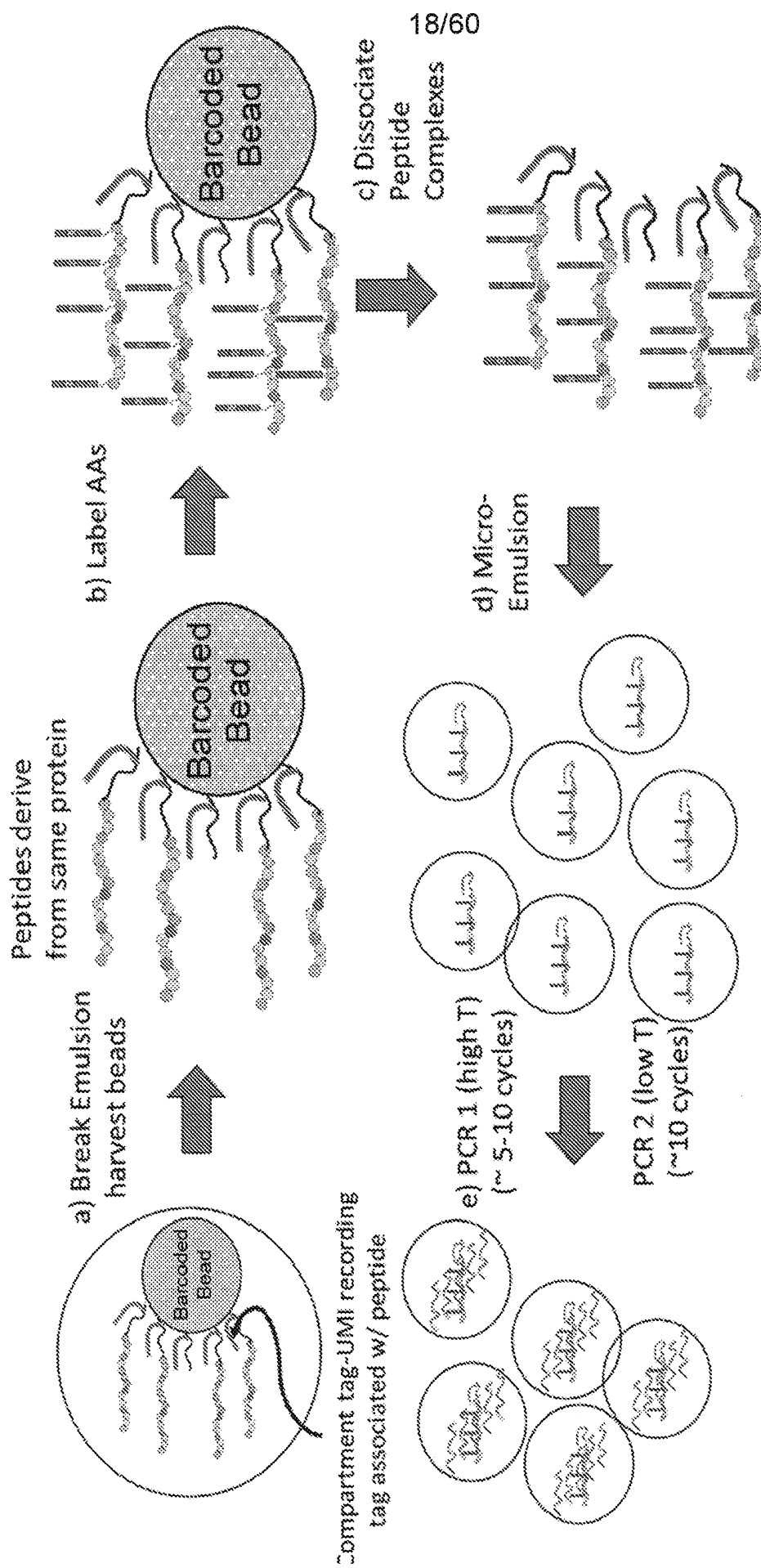


Fig. 13

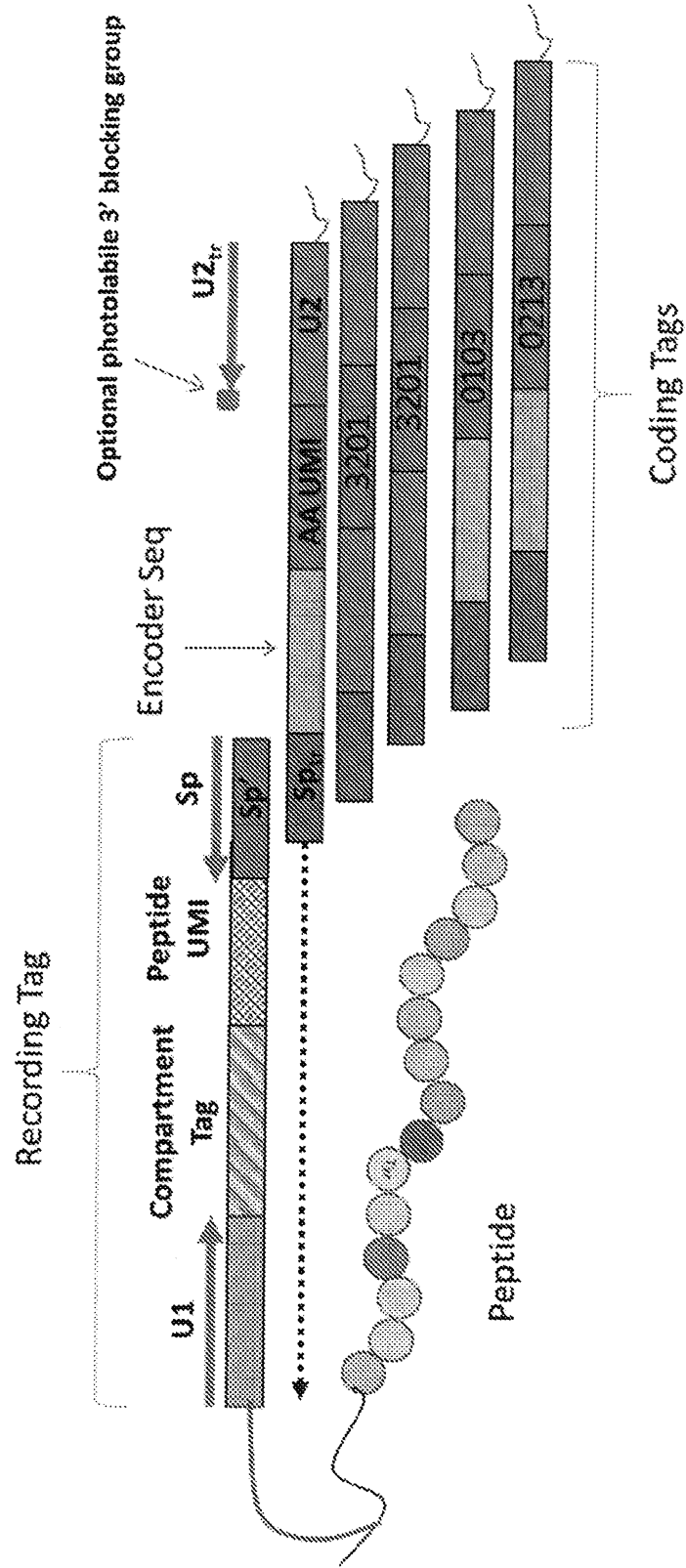
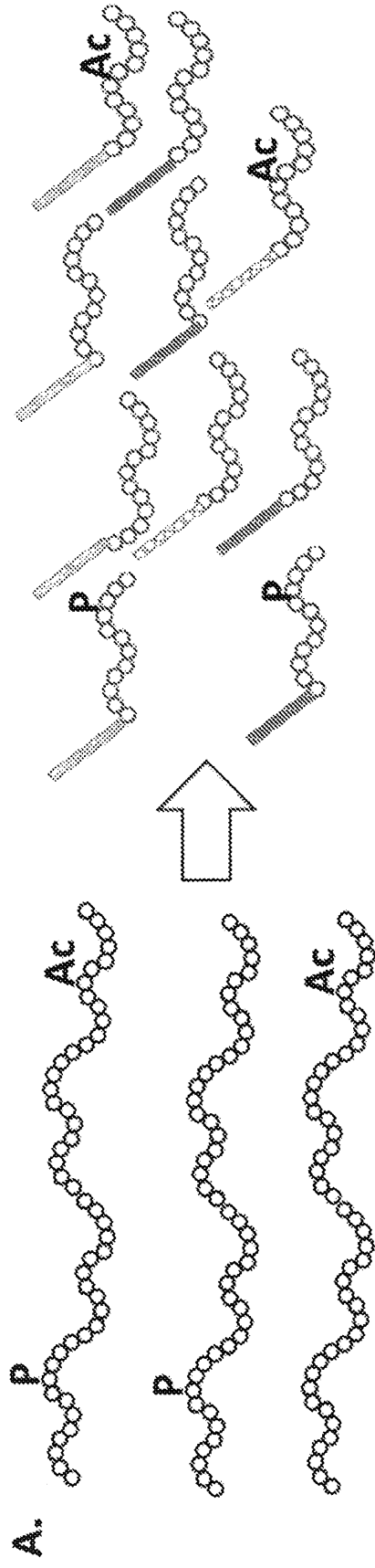


Fig. 14



Intersection ->
Identifies Protein

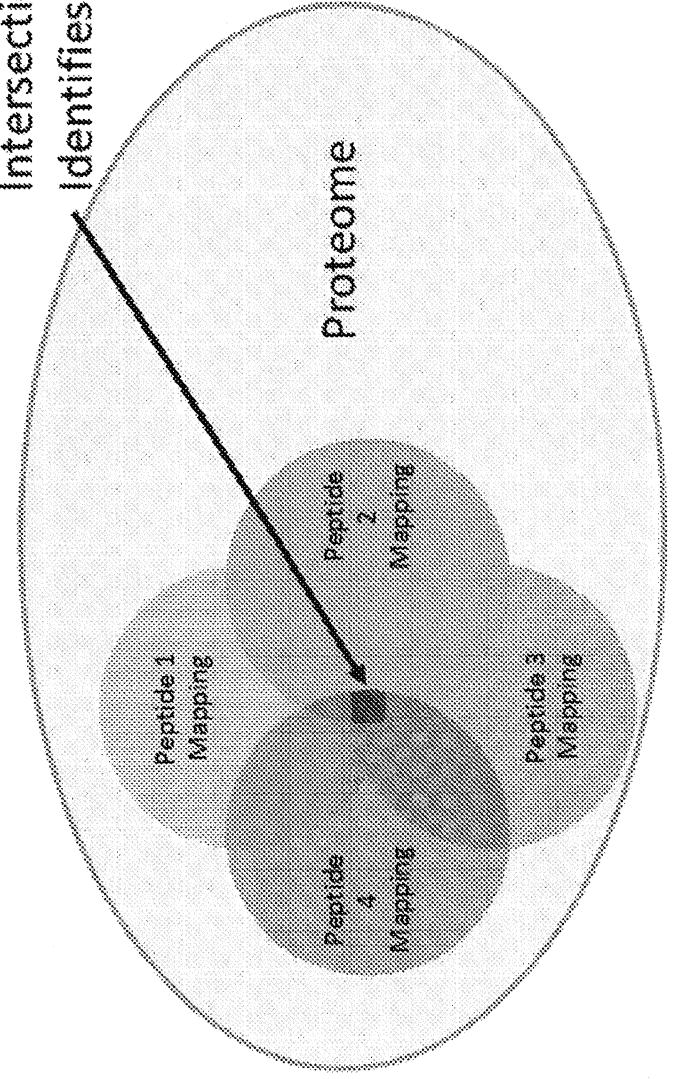


Fig. 15

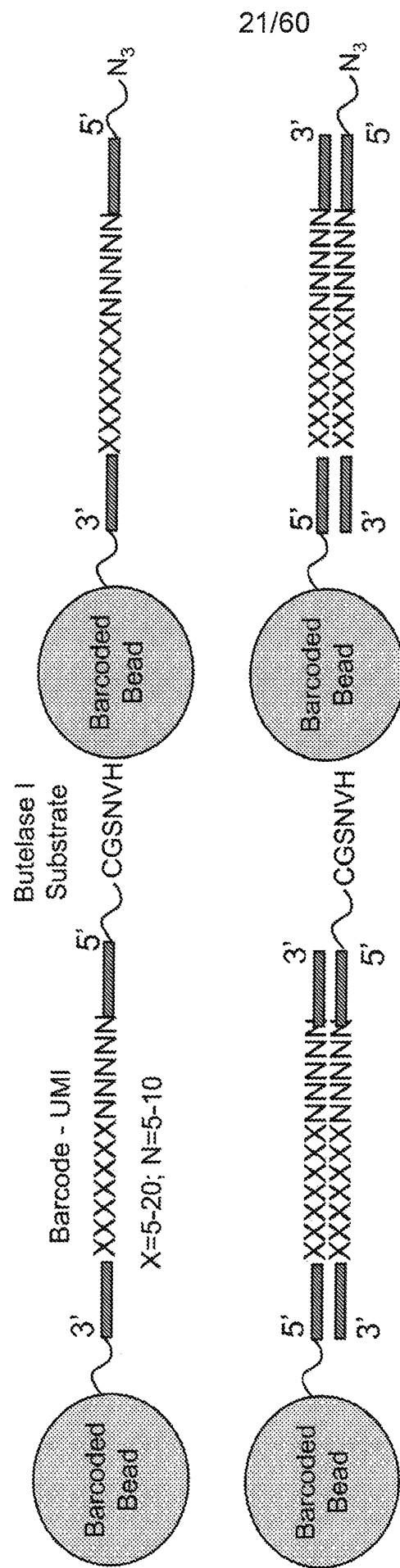


Fig. 16

A. Extended recording tags

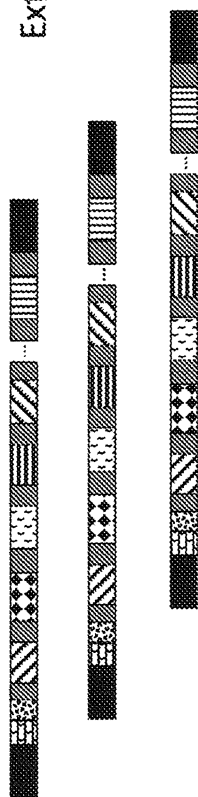
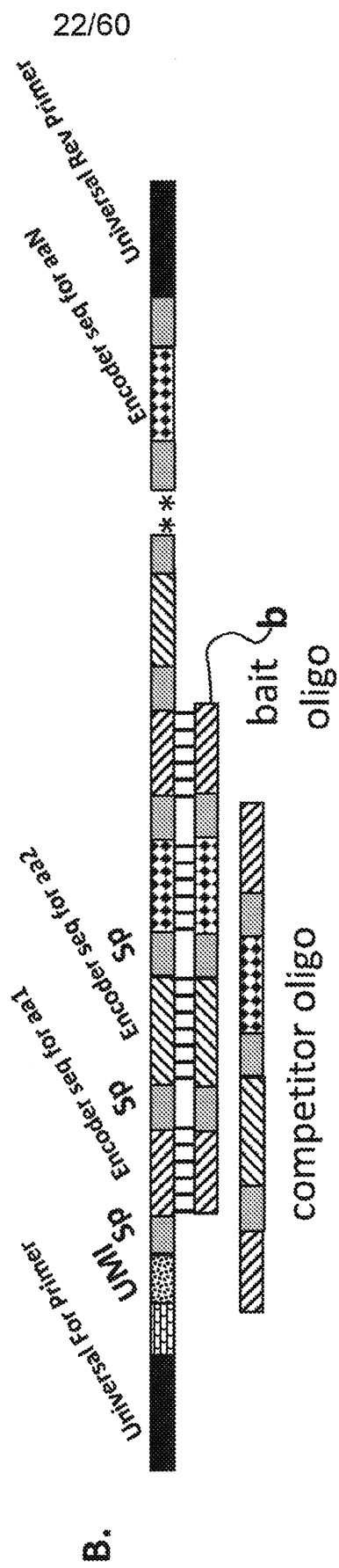


Fig. 17

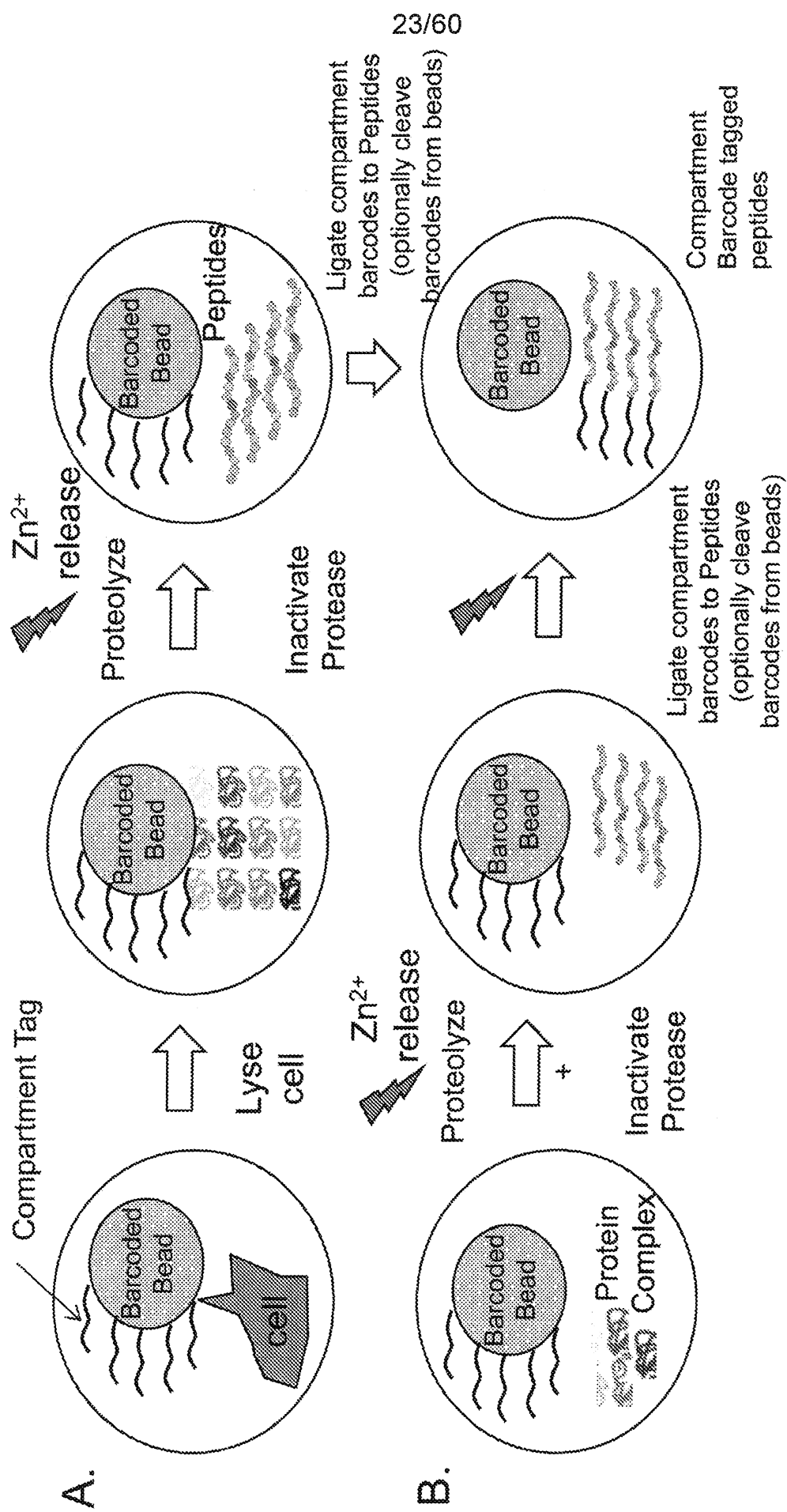


Fig. 18

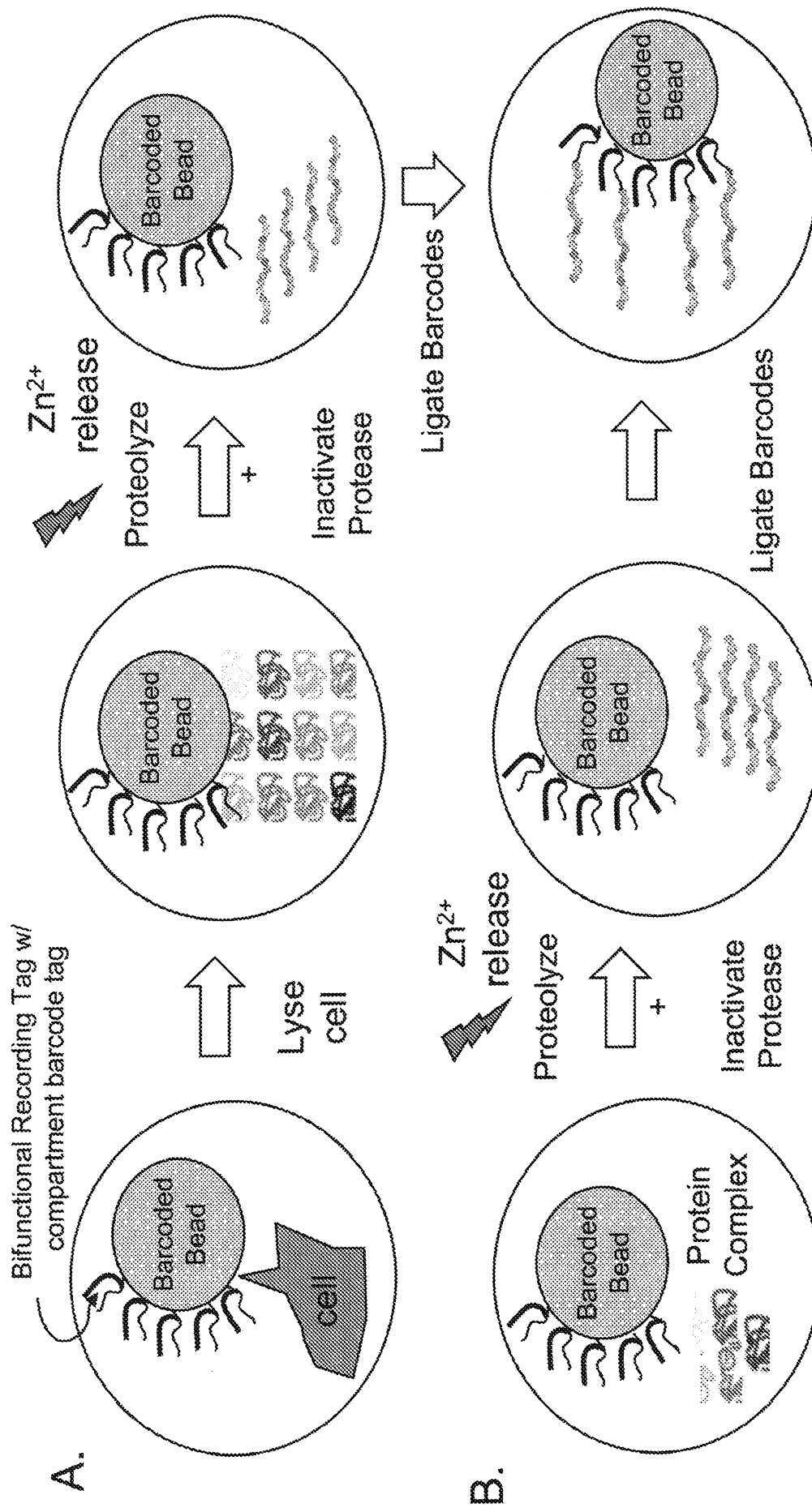


Fig. 19

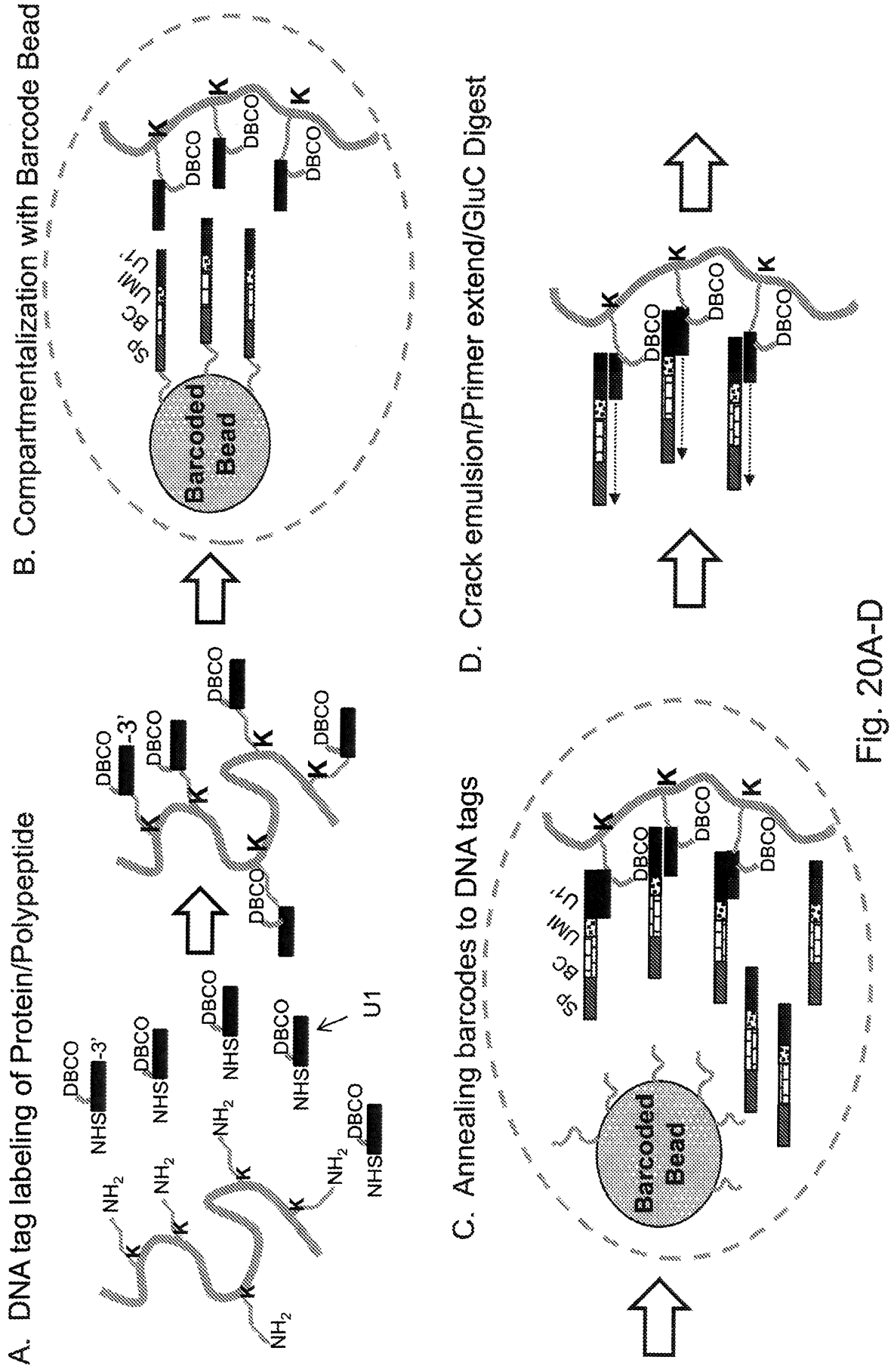


Fig. 20A-D

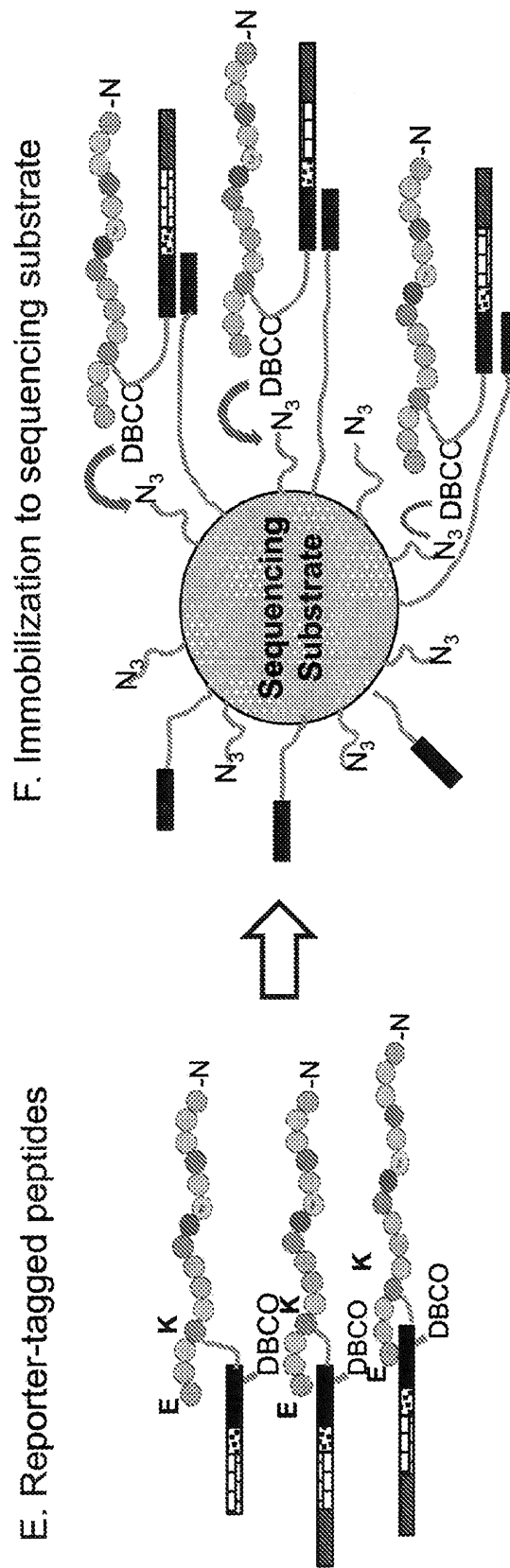


Fig. 20E-F

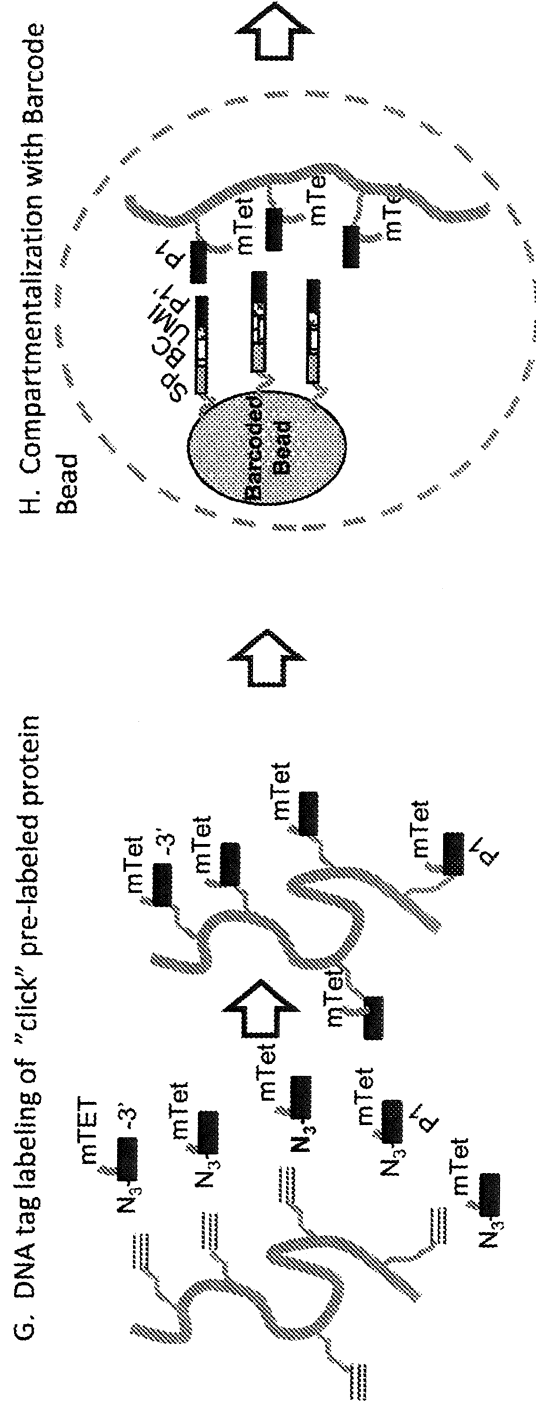
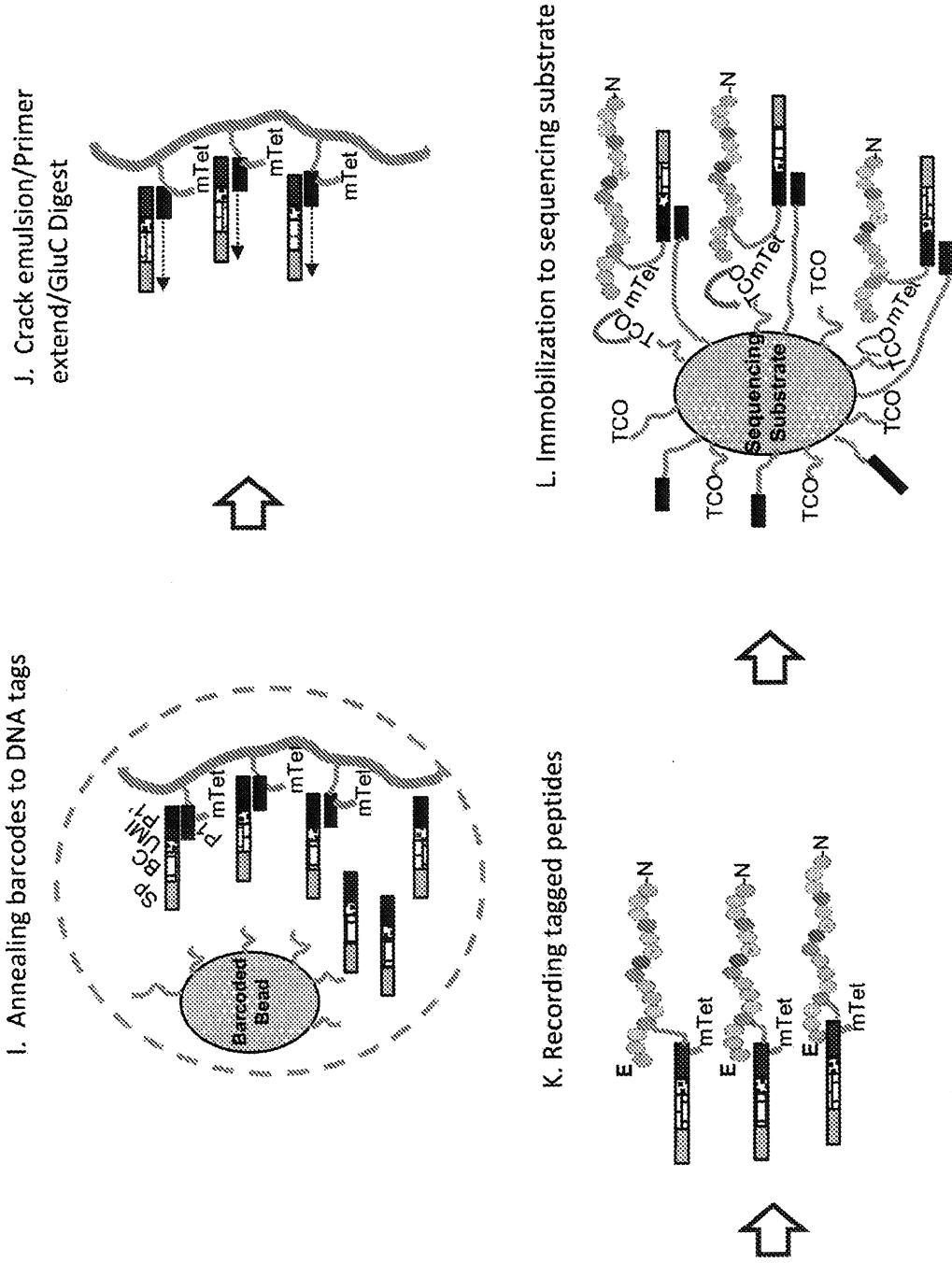


Fig. 20G-H



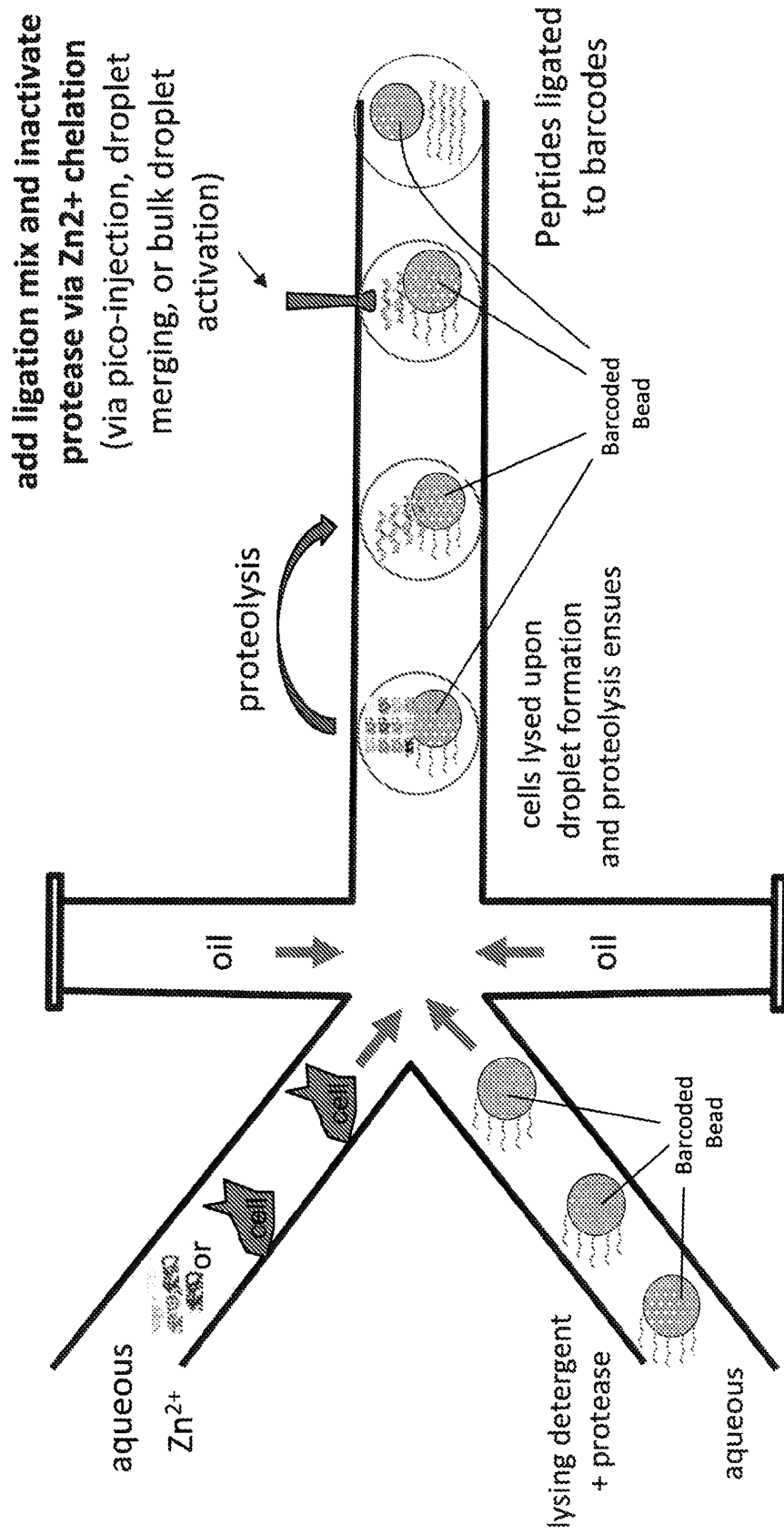
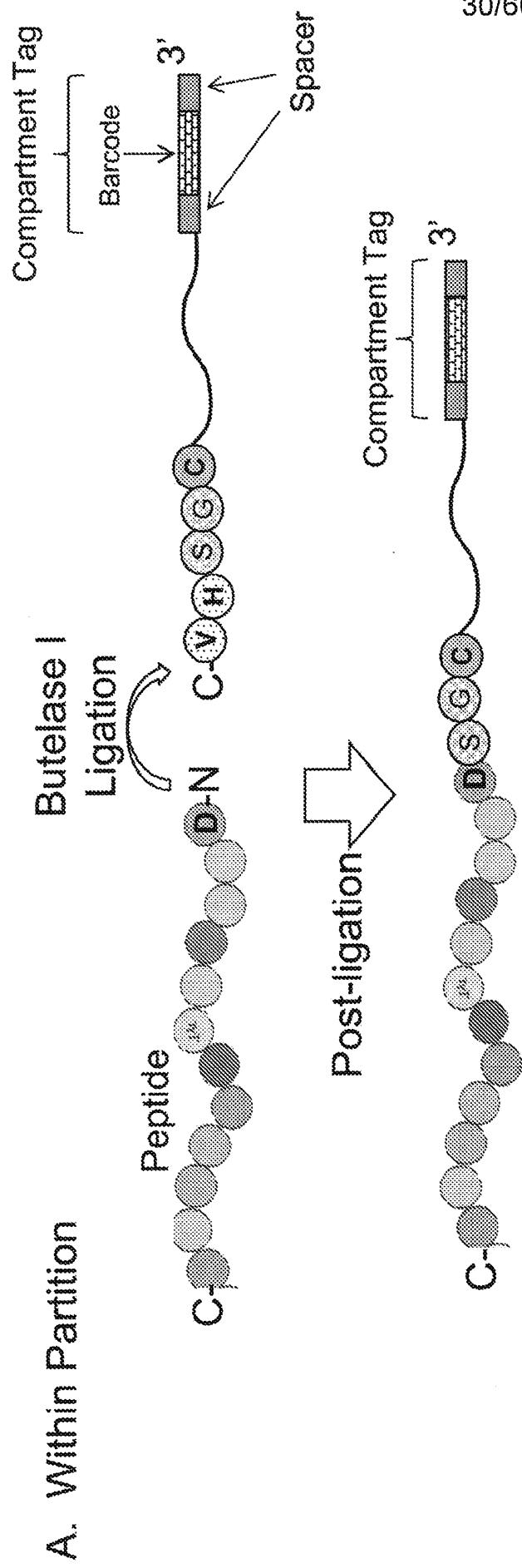


Fig. 21



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B. Bulk, and immobilized
on sequencing surface

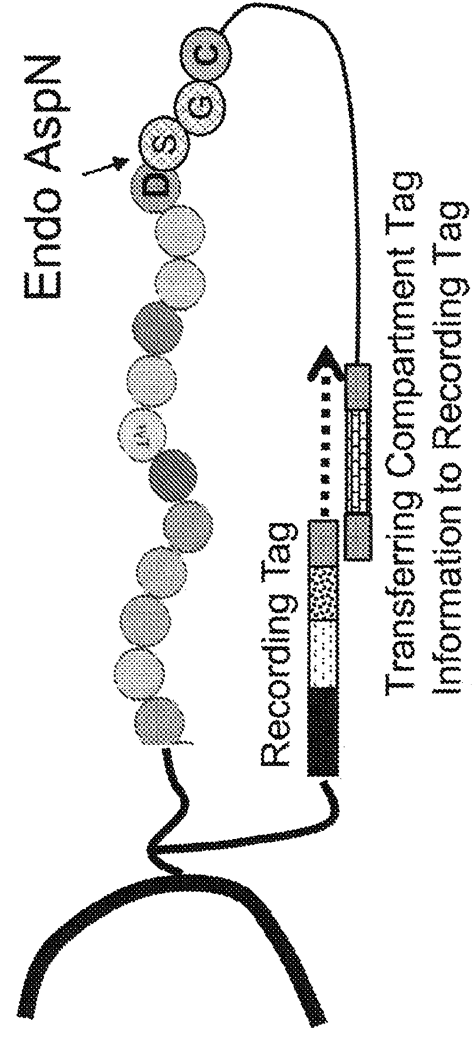


Fig. 22

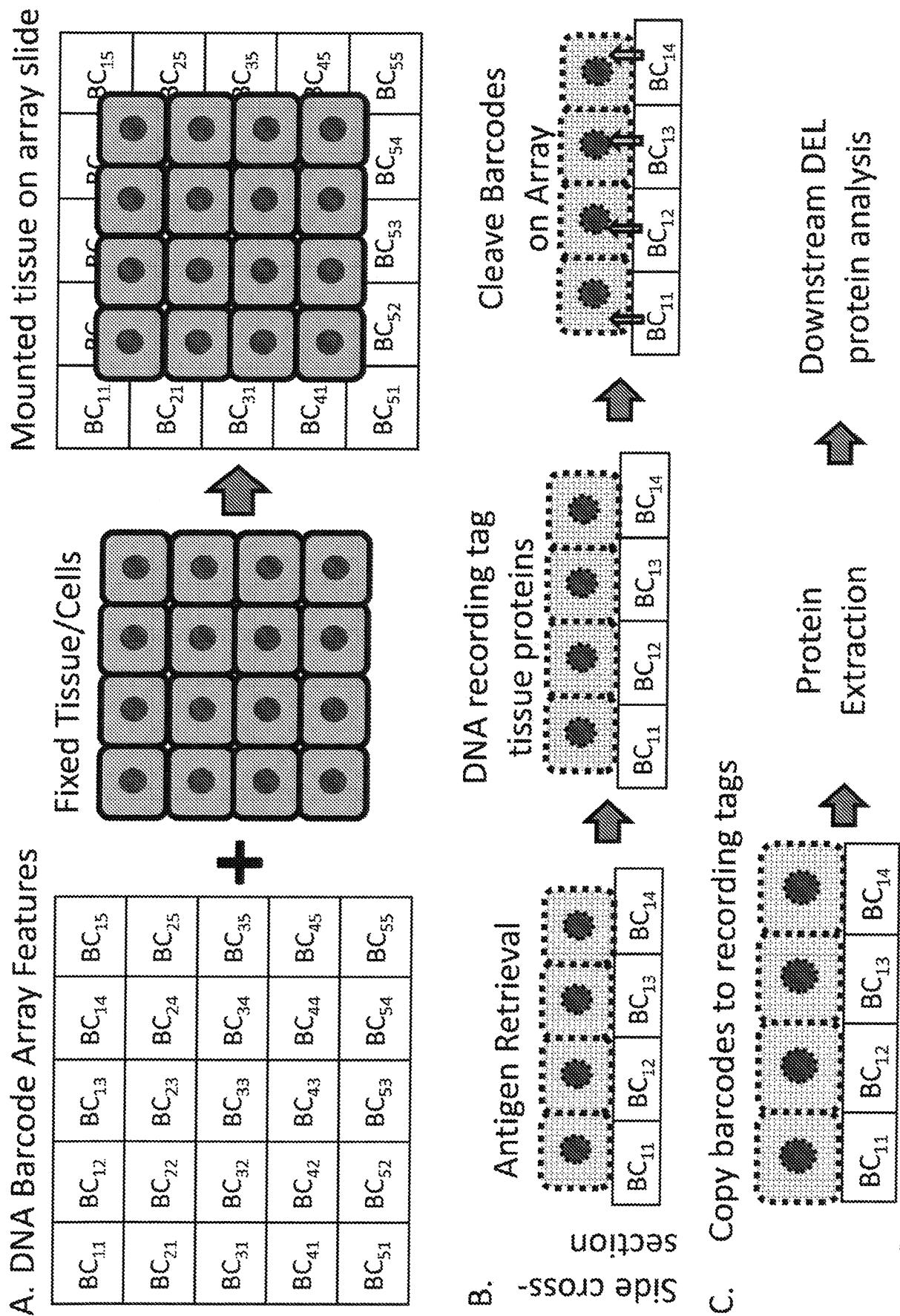


Fig. 23

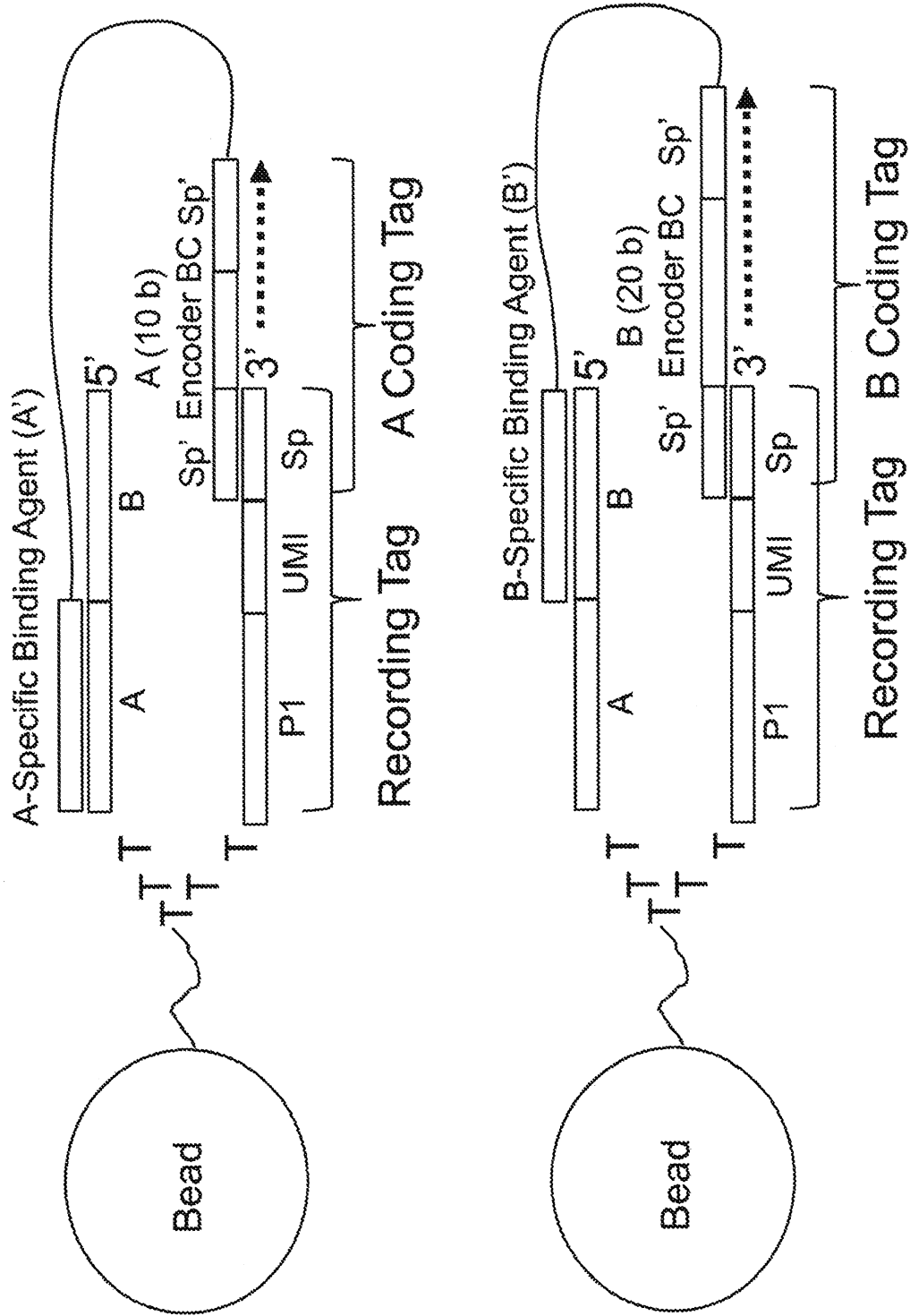


Fig. 24A

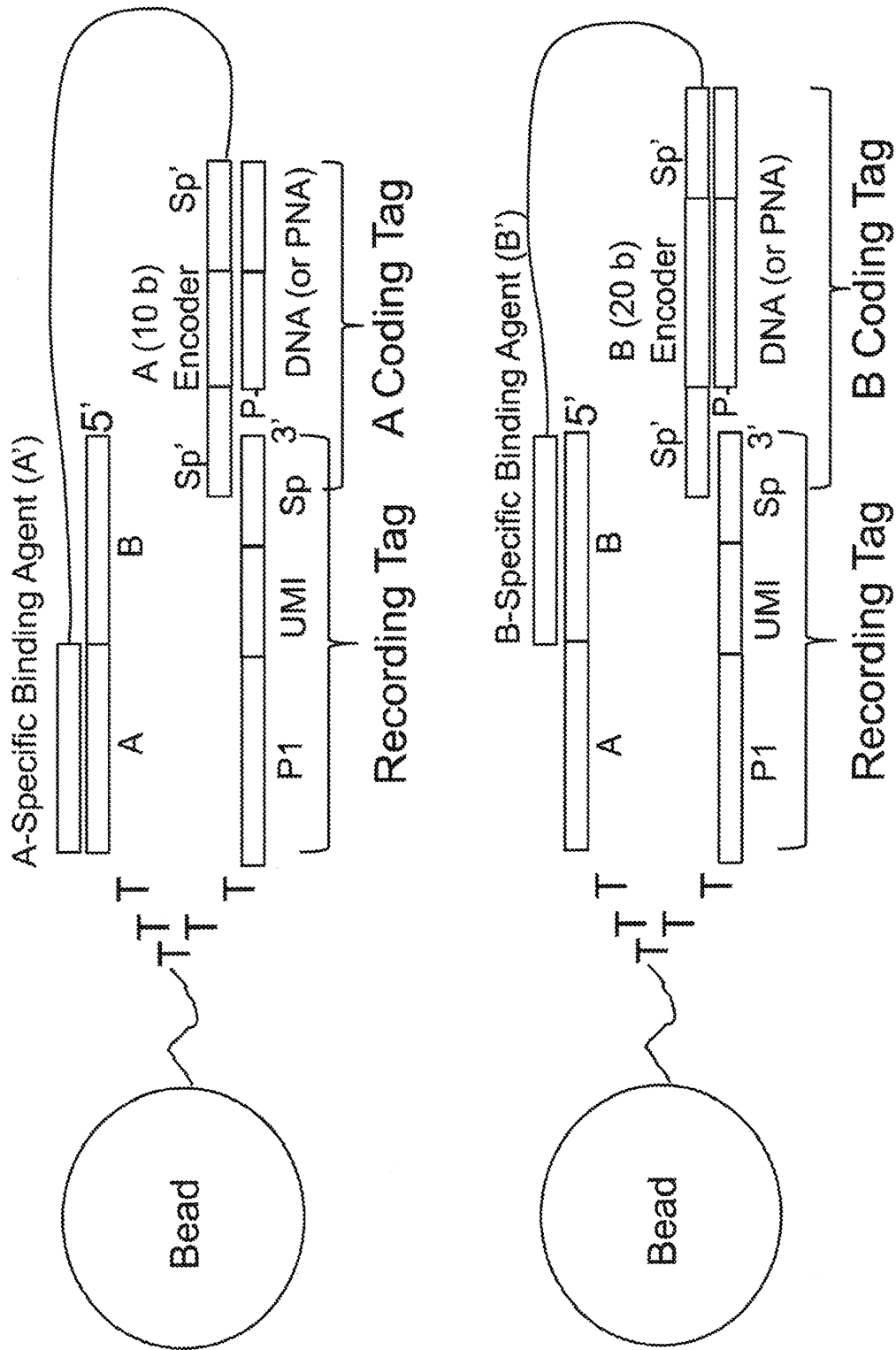


Fig. 25

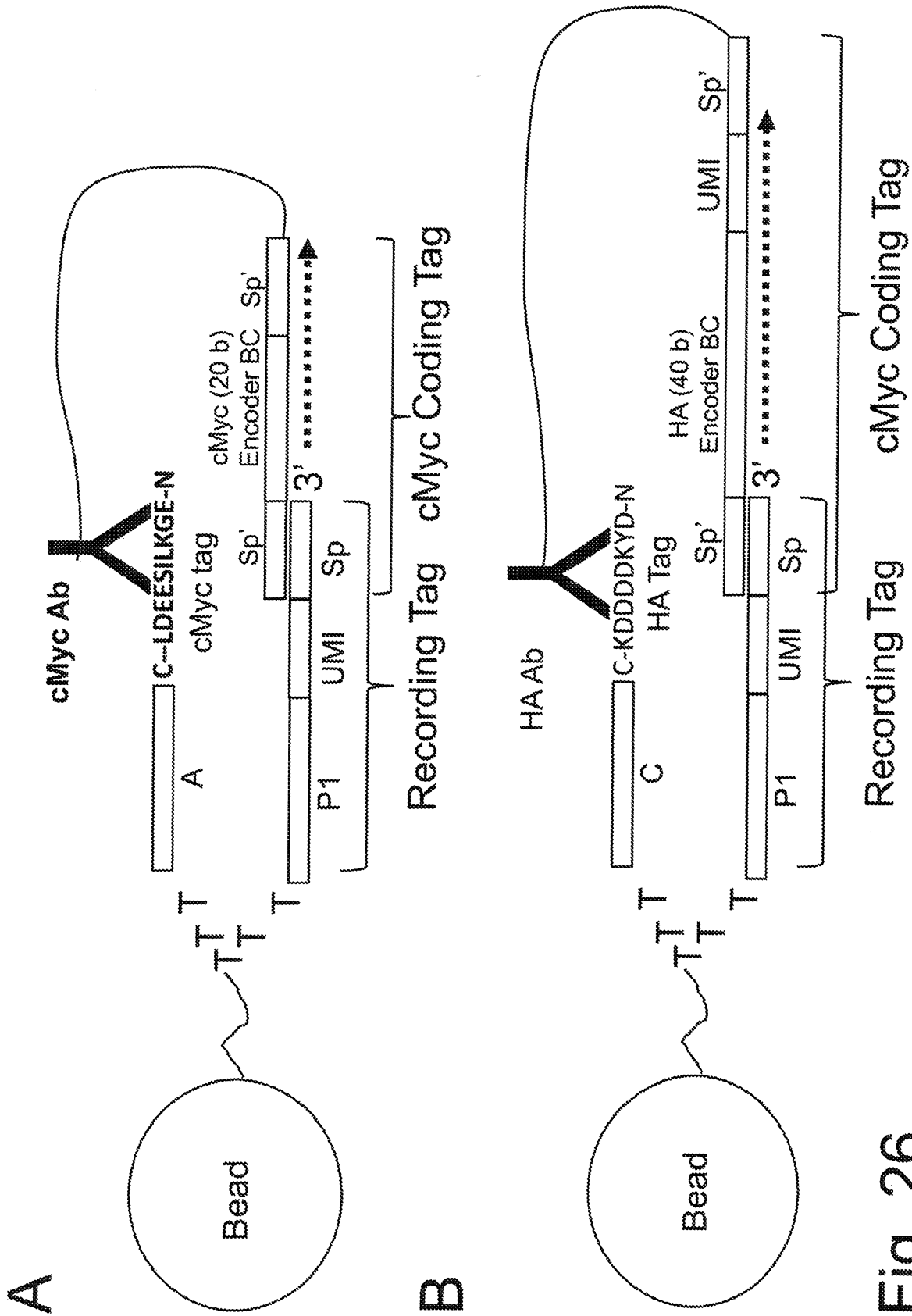


Fig. 26

A.

ATGCTAGCATGCCG	CCGCTTGTGATCTGG	CTGGATGGTTGTCCA	GATTCAACGAGAG	GCCATCAGTAAGAGA	GTCTCGTCTATCCT	CCTTACAGGTCTGCG	GGCCAACTAAGGTGC
CCGTGTGATGTGGAA	AGATAGCGTACCGGA	ACTGCACGGTTCCAA	ACGAACCTCGCACCA	GCAACGIGAATTGAG	TAGGATTCGGTIACC	GATCAITGSCCAATT	GCACCTATTGACAAA
TAAGCCGGTATATCA	TCCAGGCTCATCATC	CGAGAGATGGTCTT	AGGACTTCAAGAAGA	CTAAGTAGAGCCACA	TCTGACCACCGGAAG	TTCAGGCTGAGTTG	TGGACACGATCGGCT
TTGGATATGACGGAA	GAGTACTAGAGCCAA	TCTTGAGAGACAGAA	GGTTGAATCTCGCA	TGTCTGTTGGAAGCG	AGAGTCACCTCGTGG	TGGCTCGATTGAATC	CTATAATTCCAAAGG
CGTATACGCGTTAGG	GAGCGTCAATAACGG	AATTGCGACTGTGTT	AACCAACCTCTAGCG	TTAATAGACAGCGCG	CTGATGTAGTCCAAG	GTAAGCCATCCGCTC	AACGTGGTTAGTAAAG
AACTGCCGAGATTCC	CGCGTATCTACACTG	GTAGTCCCGCTAAGA	ACGCGAATATCTAAC	CGACGCTCTACAAAG	GTCCGTTGCGGATAG	ACACATGCGTAGACA	CAAGGACGAGTGGC
TGATCTTAGCTGTGC	CTTCTCCGAGAGAAA	CCTATAGCACAAATCC	GTTGAGAAATTACACC	CATGCGTATTGAGA	TCTCTCTCTTAAGAA	TGCTATGGATTCCAAG	CACCAGAACGGGAAGA
GAGTCGGTACCTTGA	TGAAGCCTGTGTATAA	ATCACCGAGGTTGGA	CTCTCTCTGTGAACC	ACTAGGTATGCGCGG	ATTGCGTCCACTTCA	CCACGAGGCTTAGTT	CGTACGGTCAAGCAA
							TCGGTGACAGGCTAA

Fig. 27A

B.

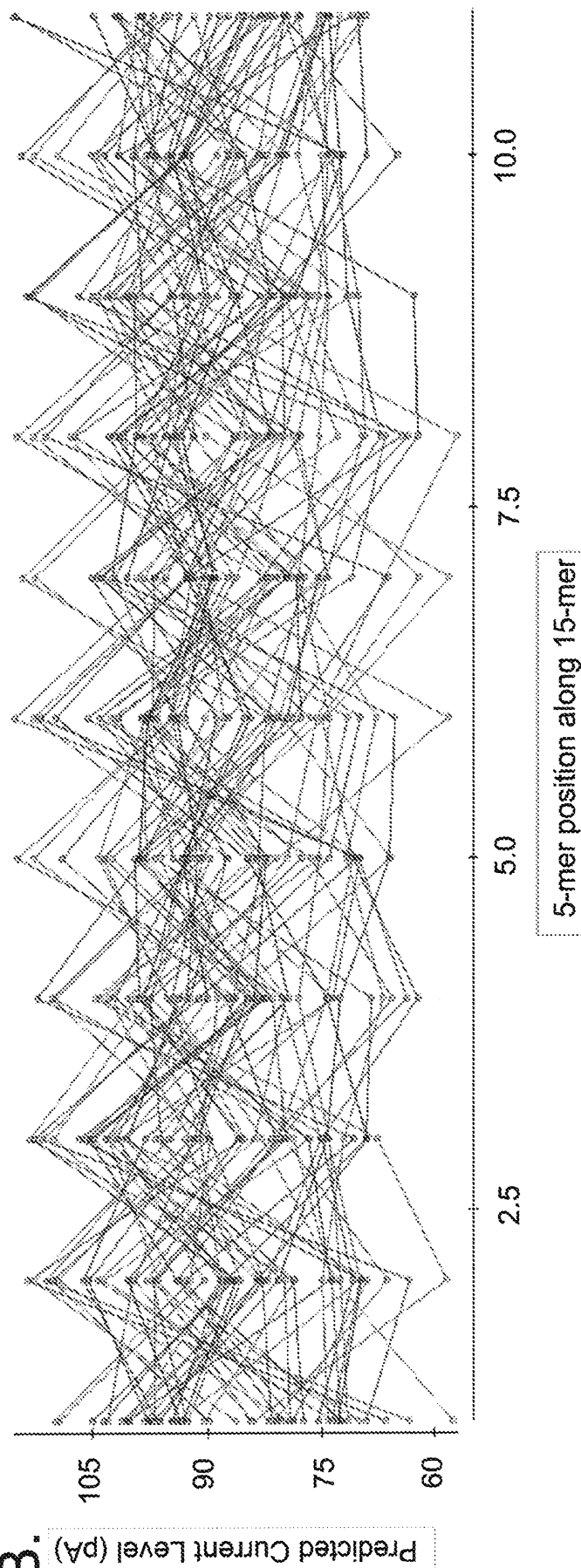


Fig. 27B

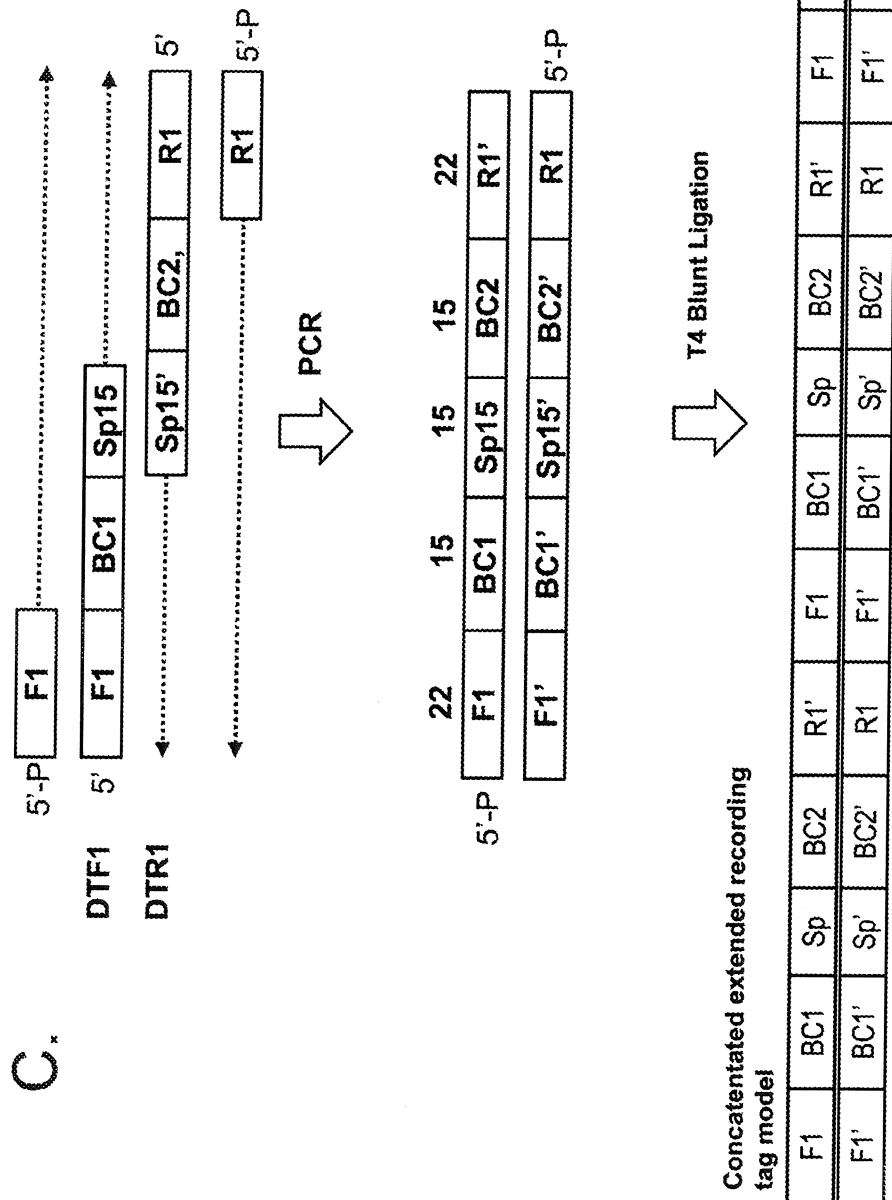


Fig. 27C

Fig. 27D

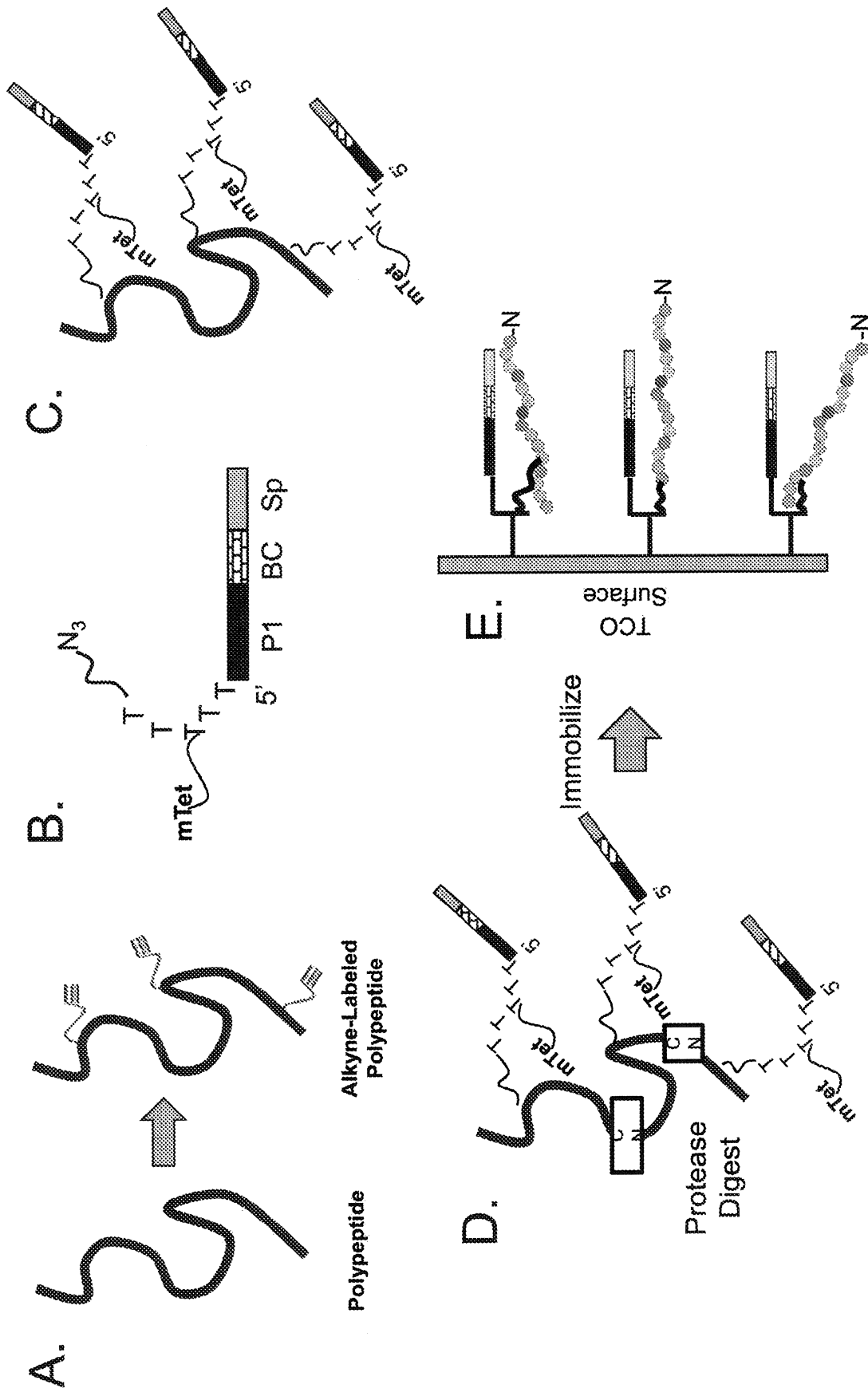


Fig. 29

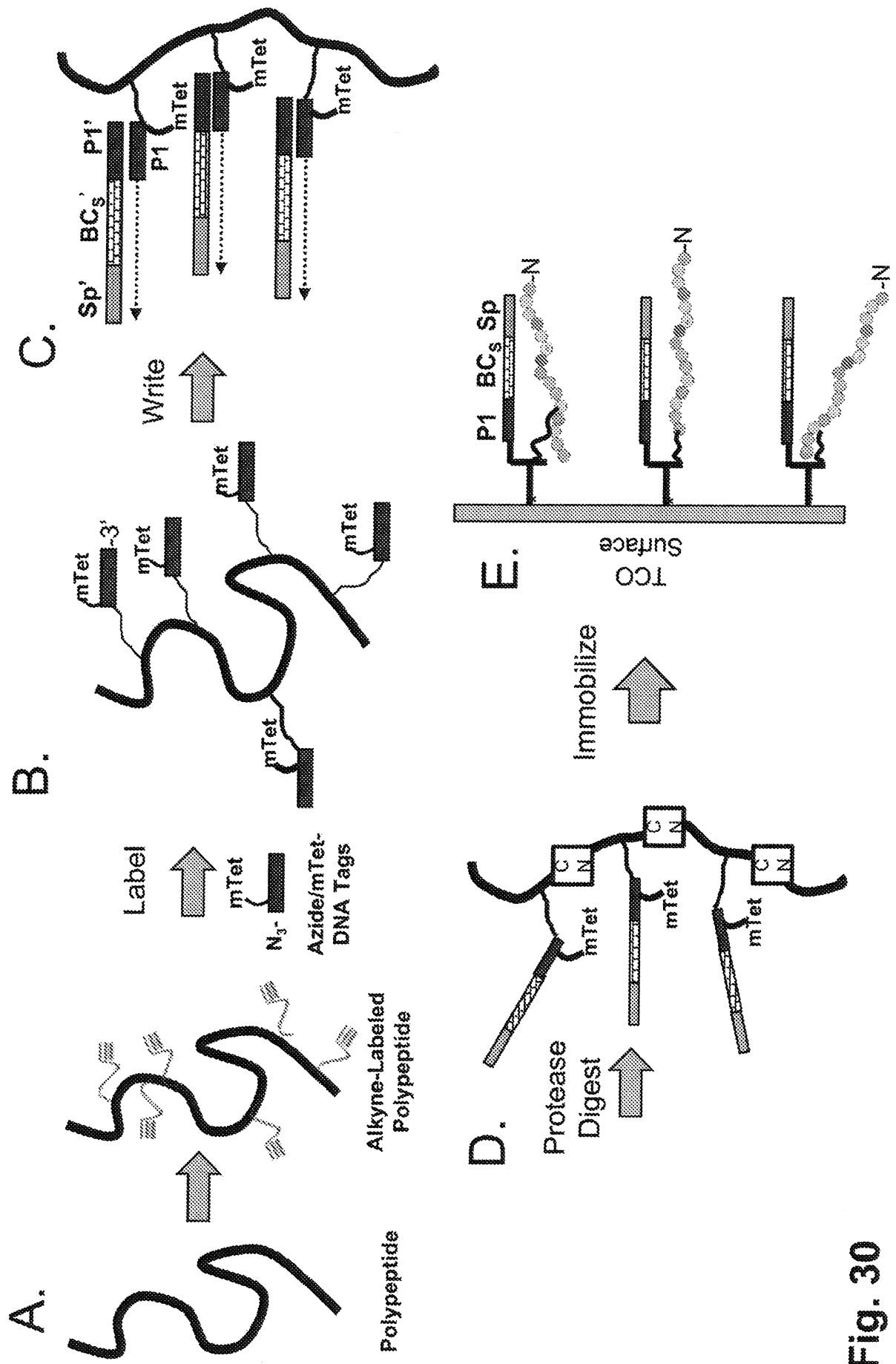
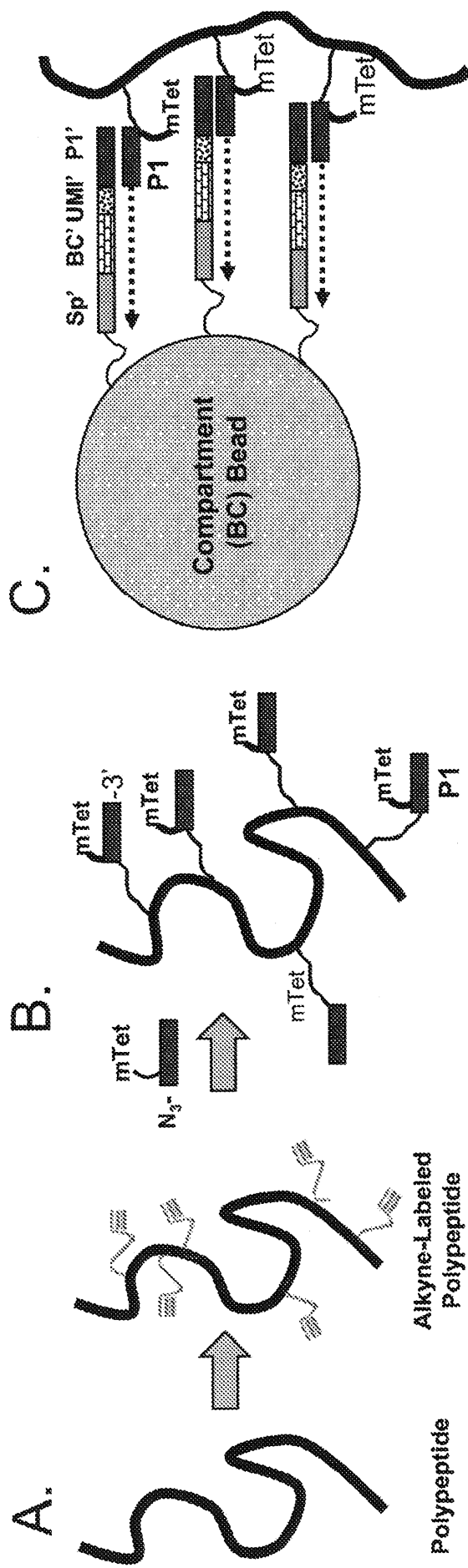


Fig. 30



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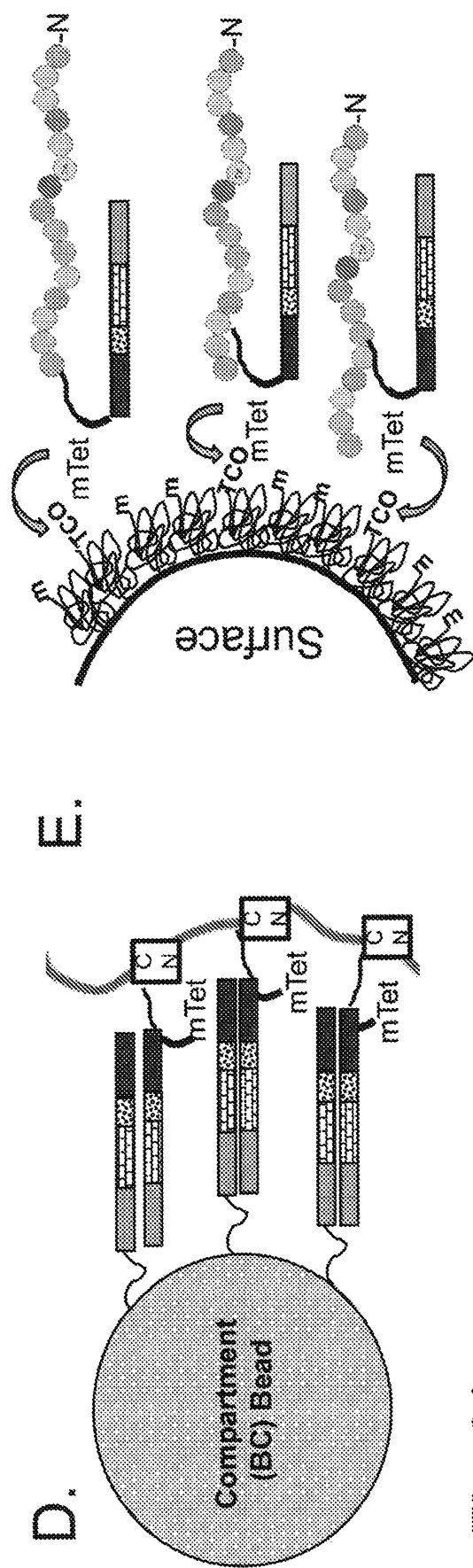


Fig. 31

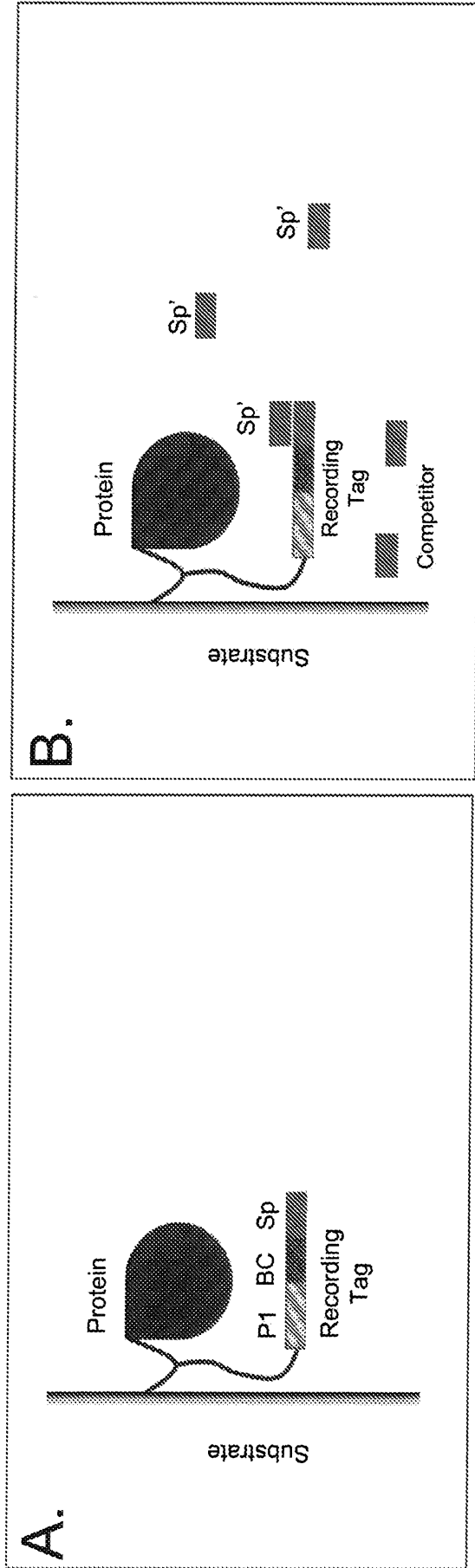


Fig. 32A

Fig. 32B

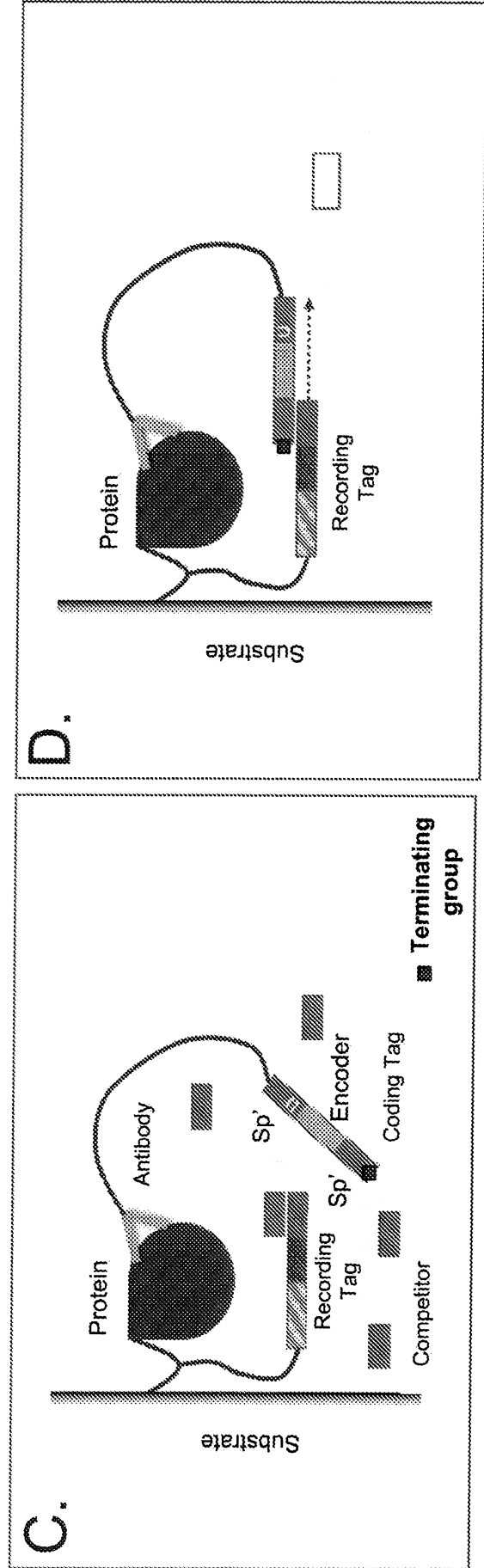


Fig. 32C

Fig. 32D

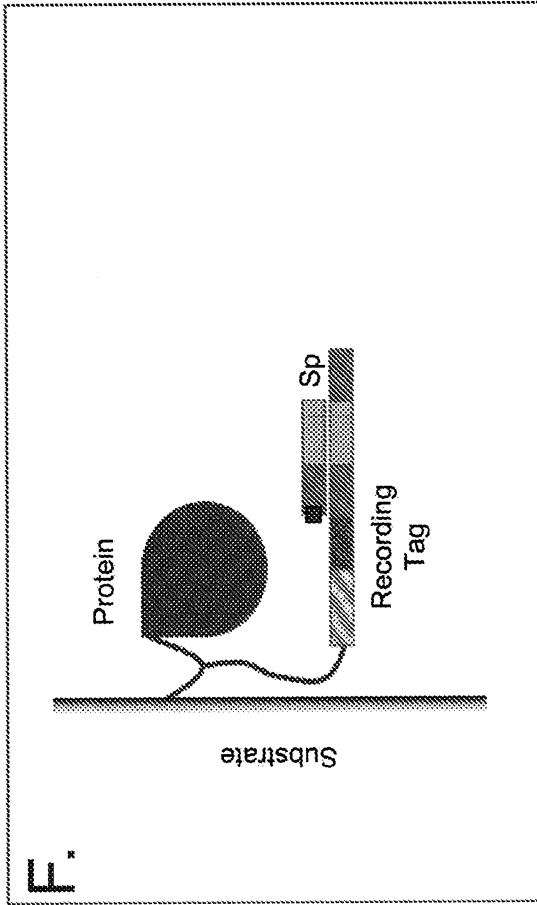


Fig. 32F

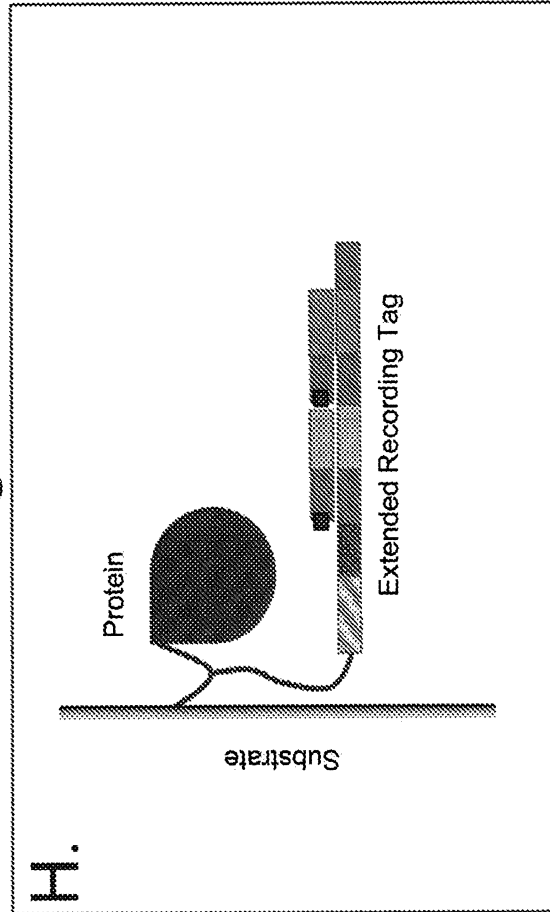


Fig. 32H

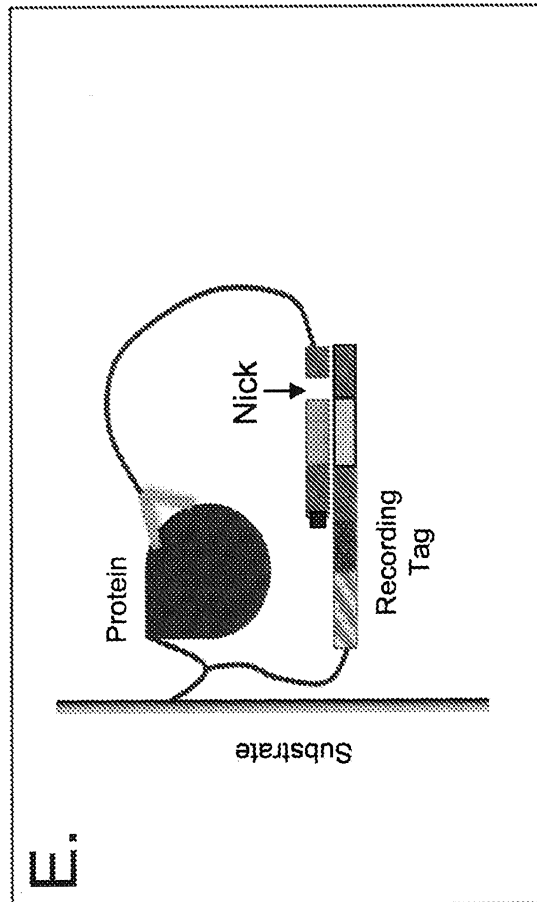


Fig. 32E

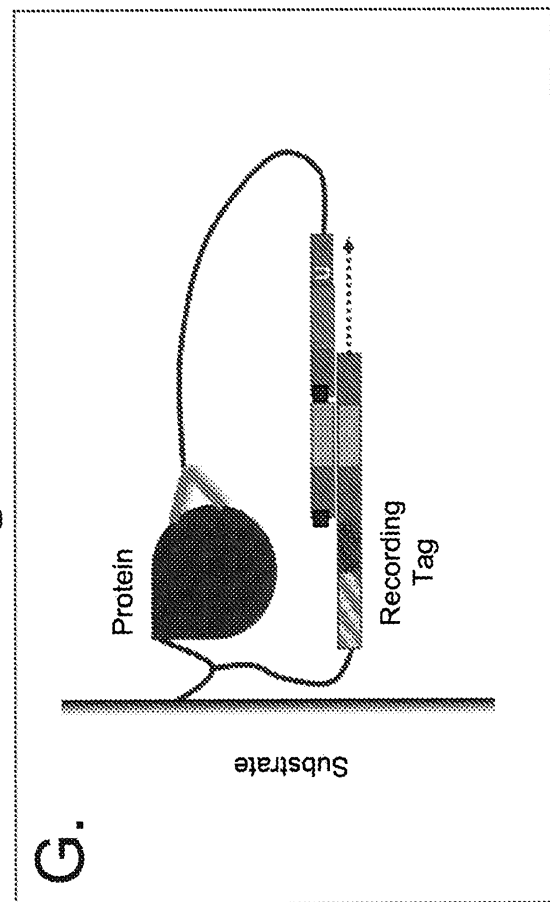


Fig. 32G

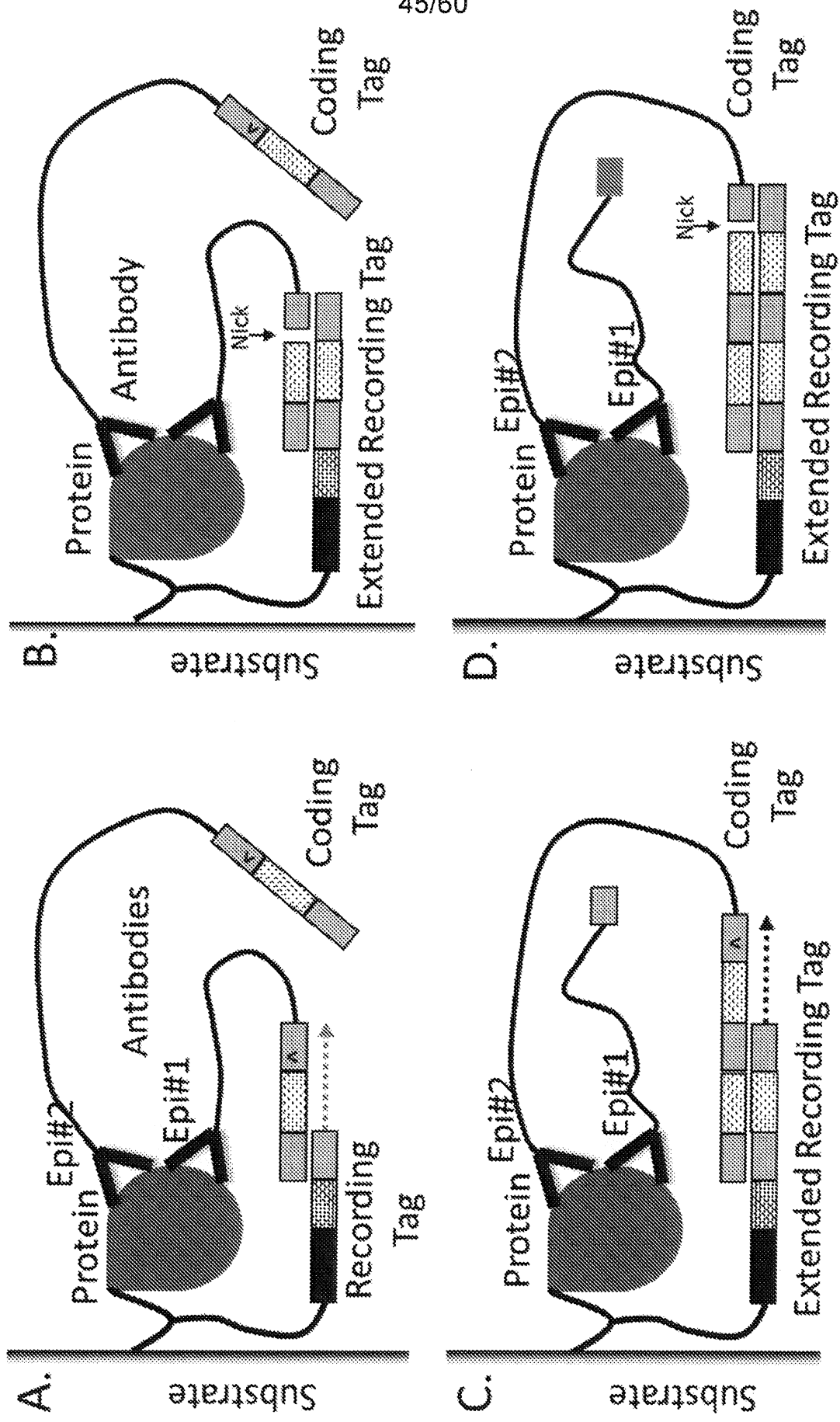


Fig. 33

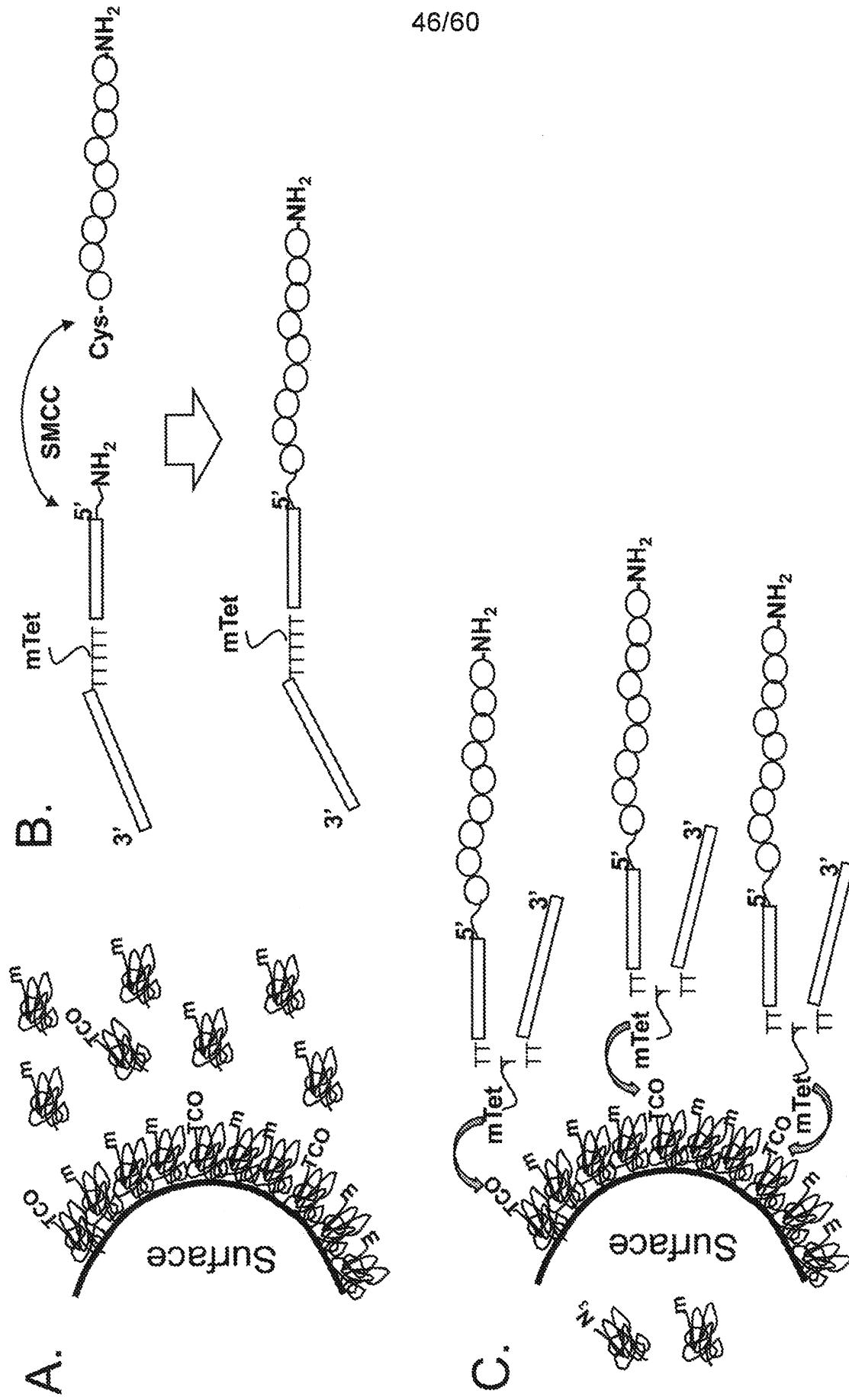


Fig. 34

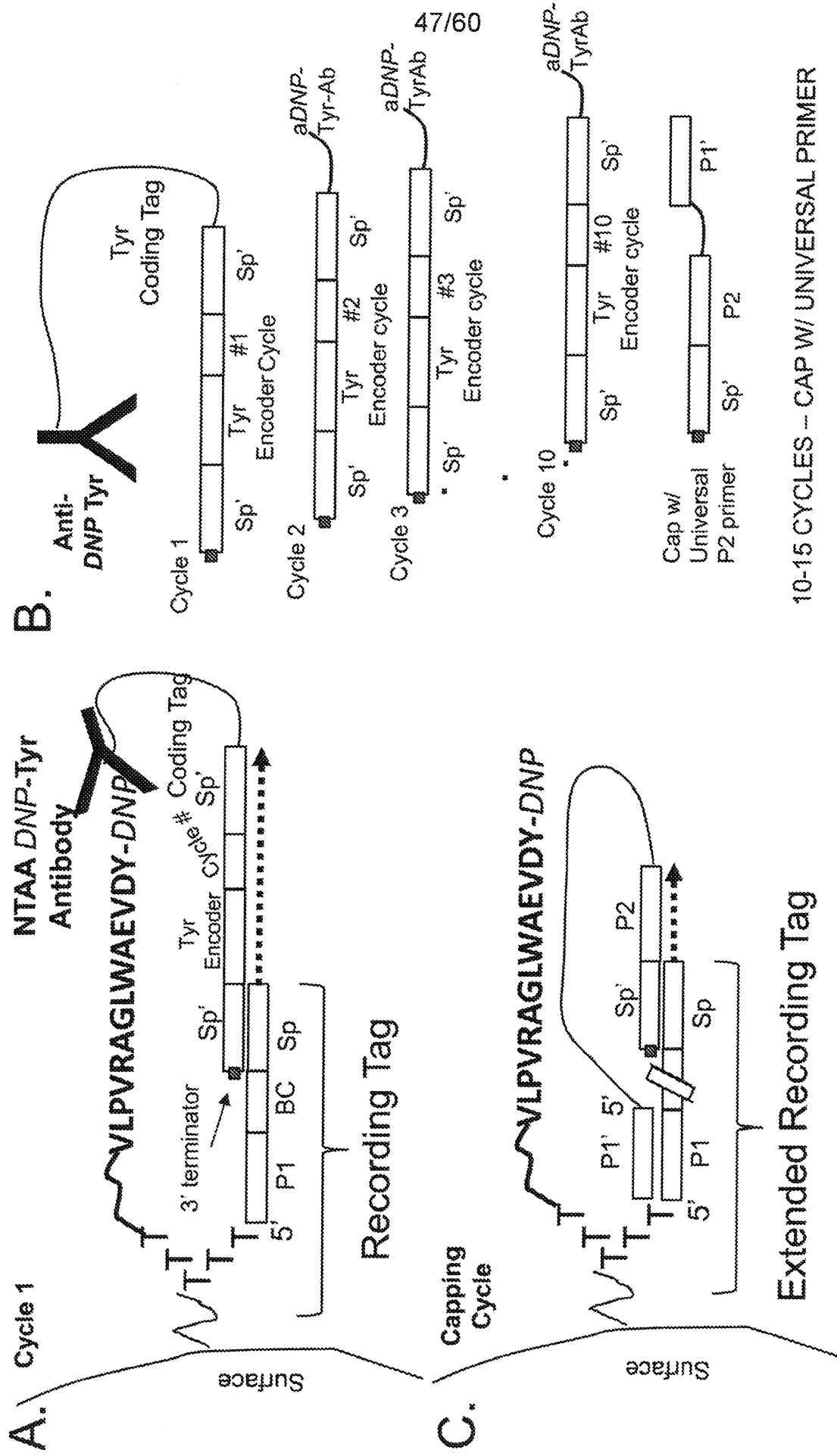


Fig. 35

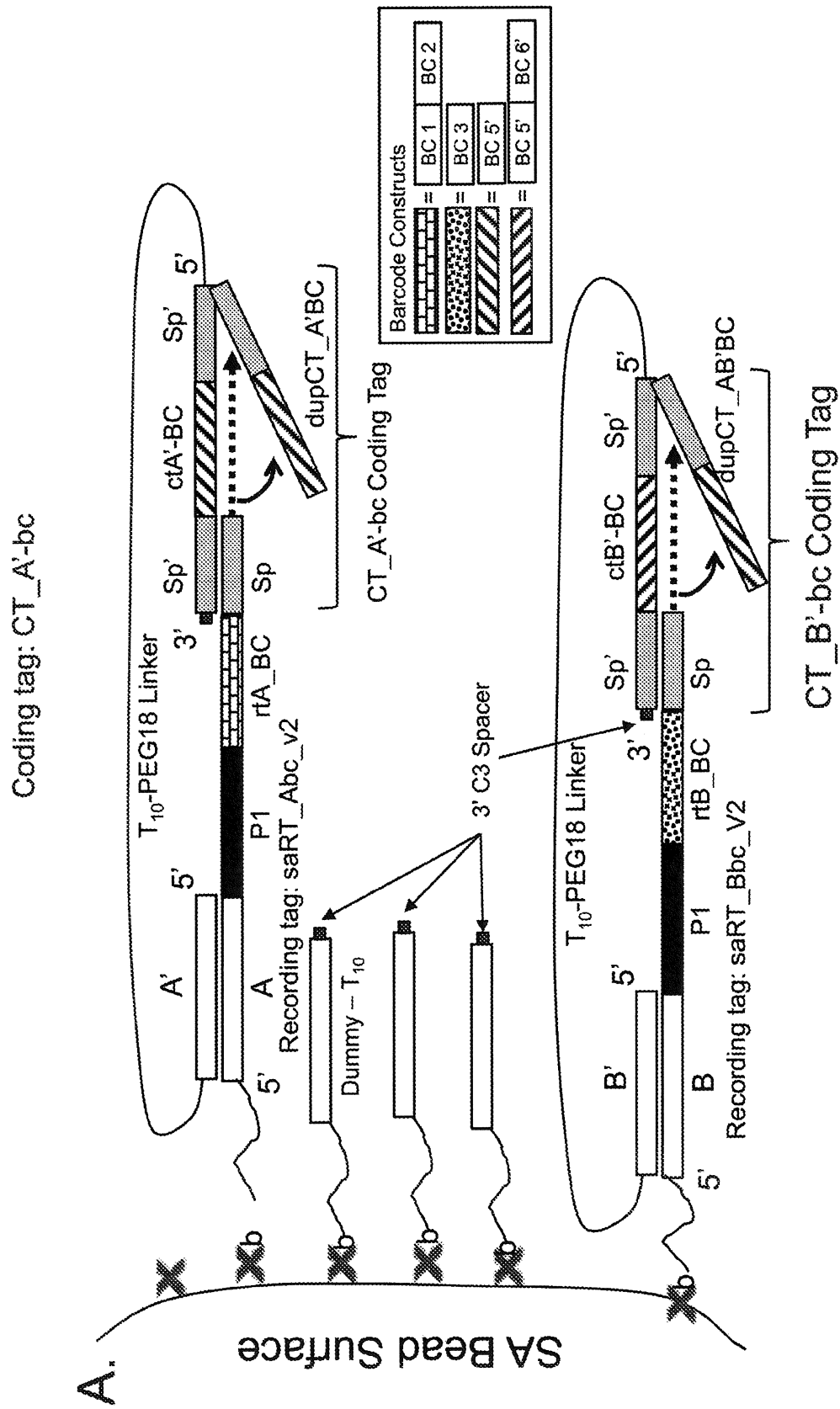


Fig. 36A

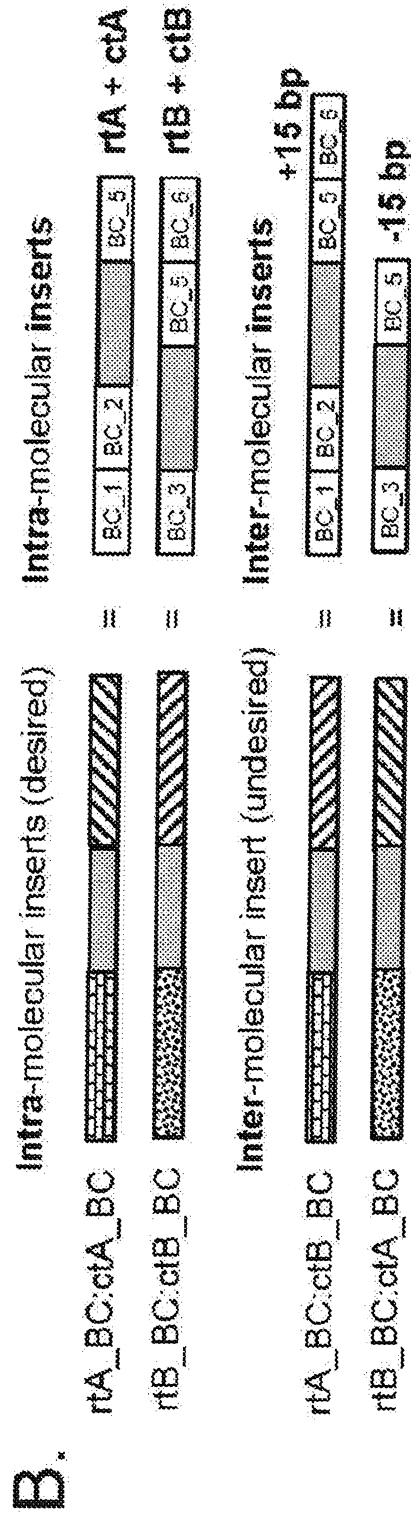


Fig. 36B

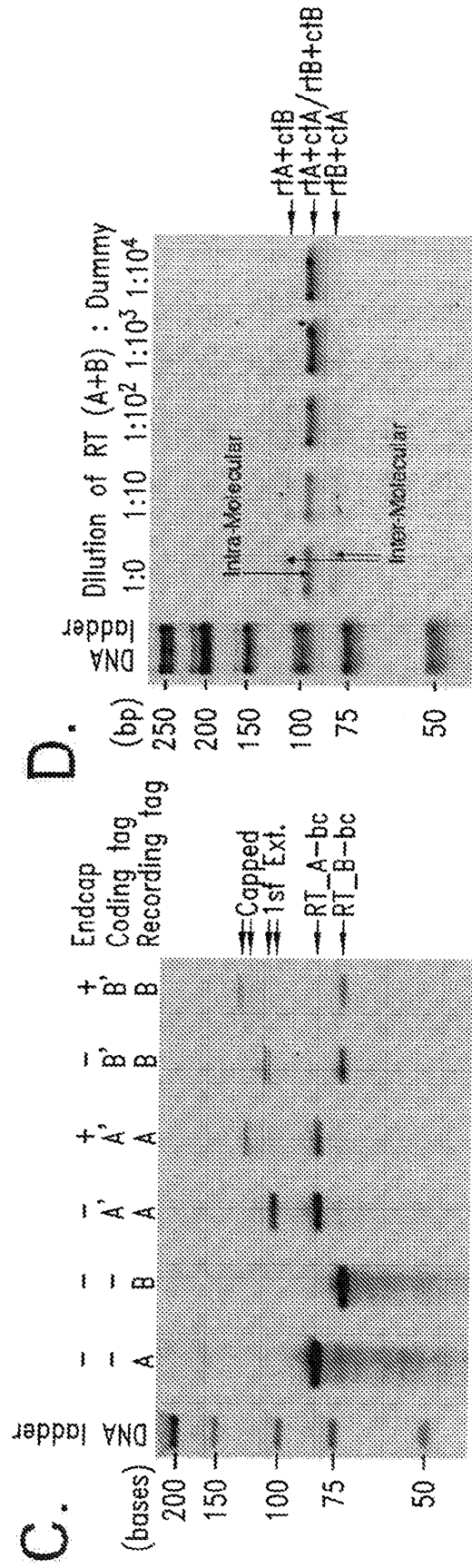


Fig. 36C

Fig. 36D

E.

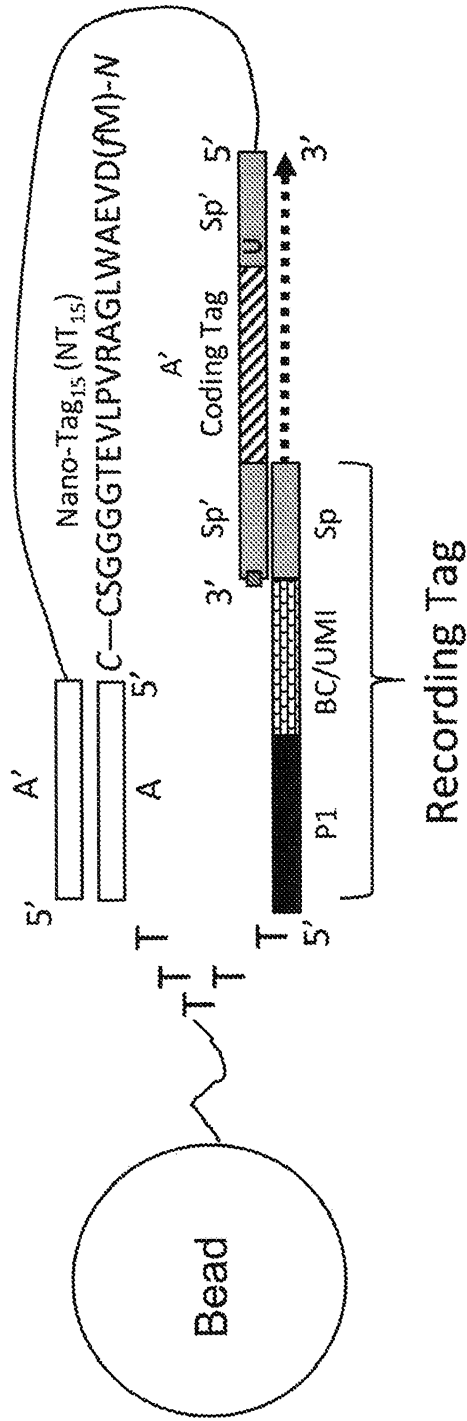


Fig. 36E

F.

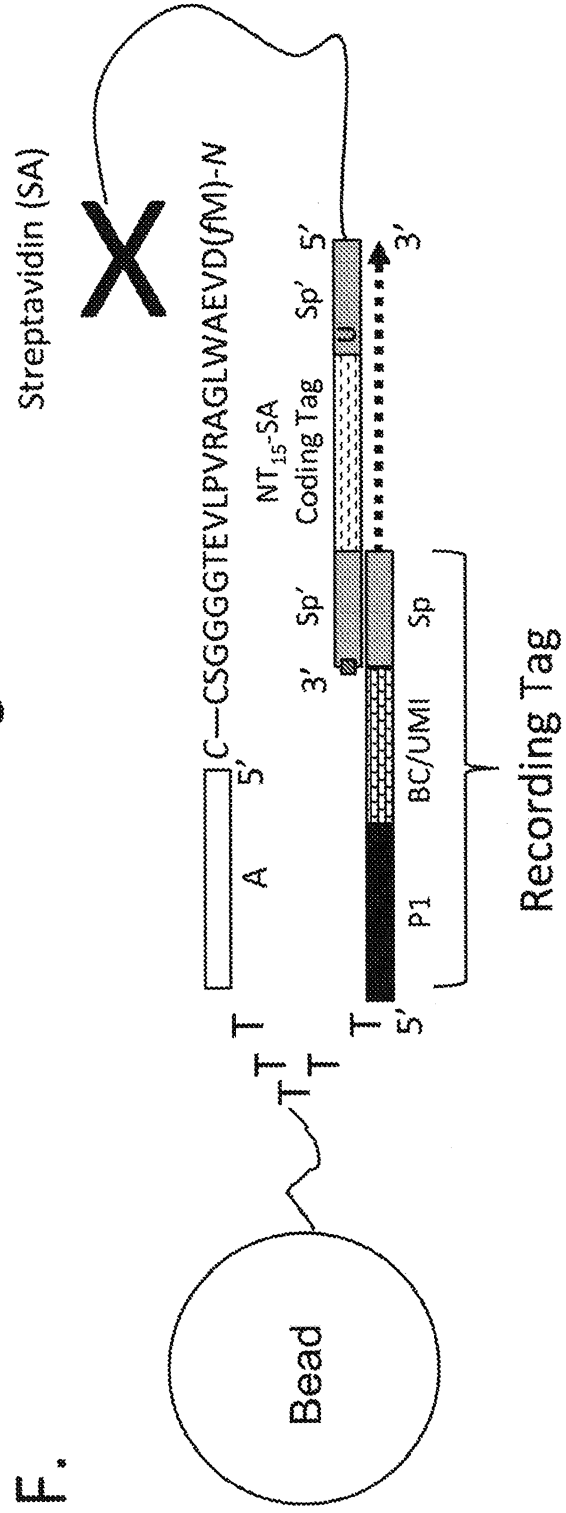


Fig. 36F

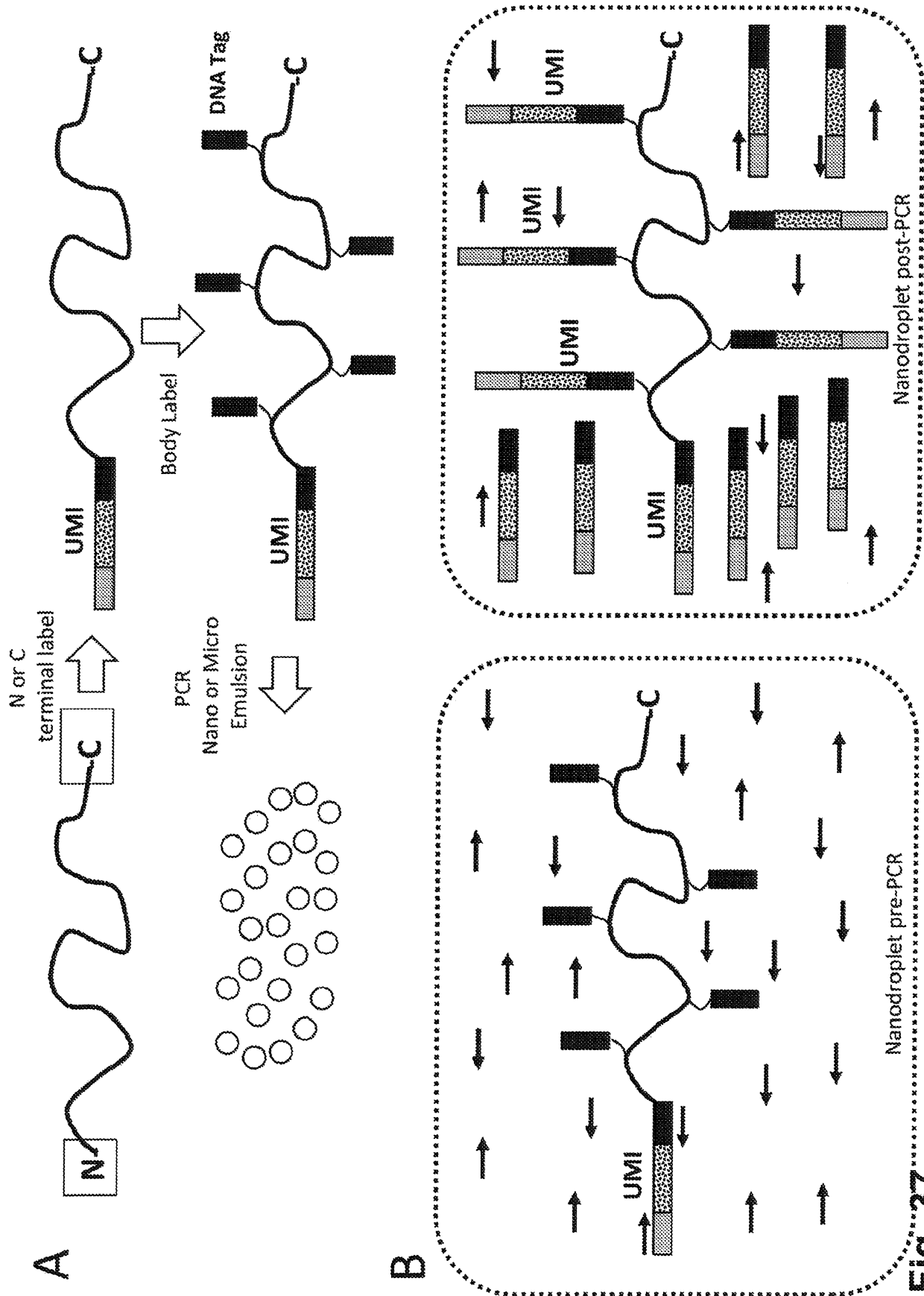


Fig. 37

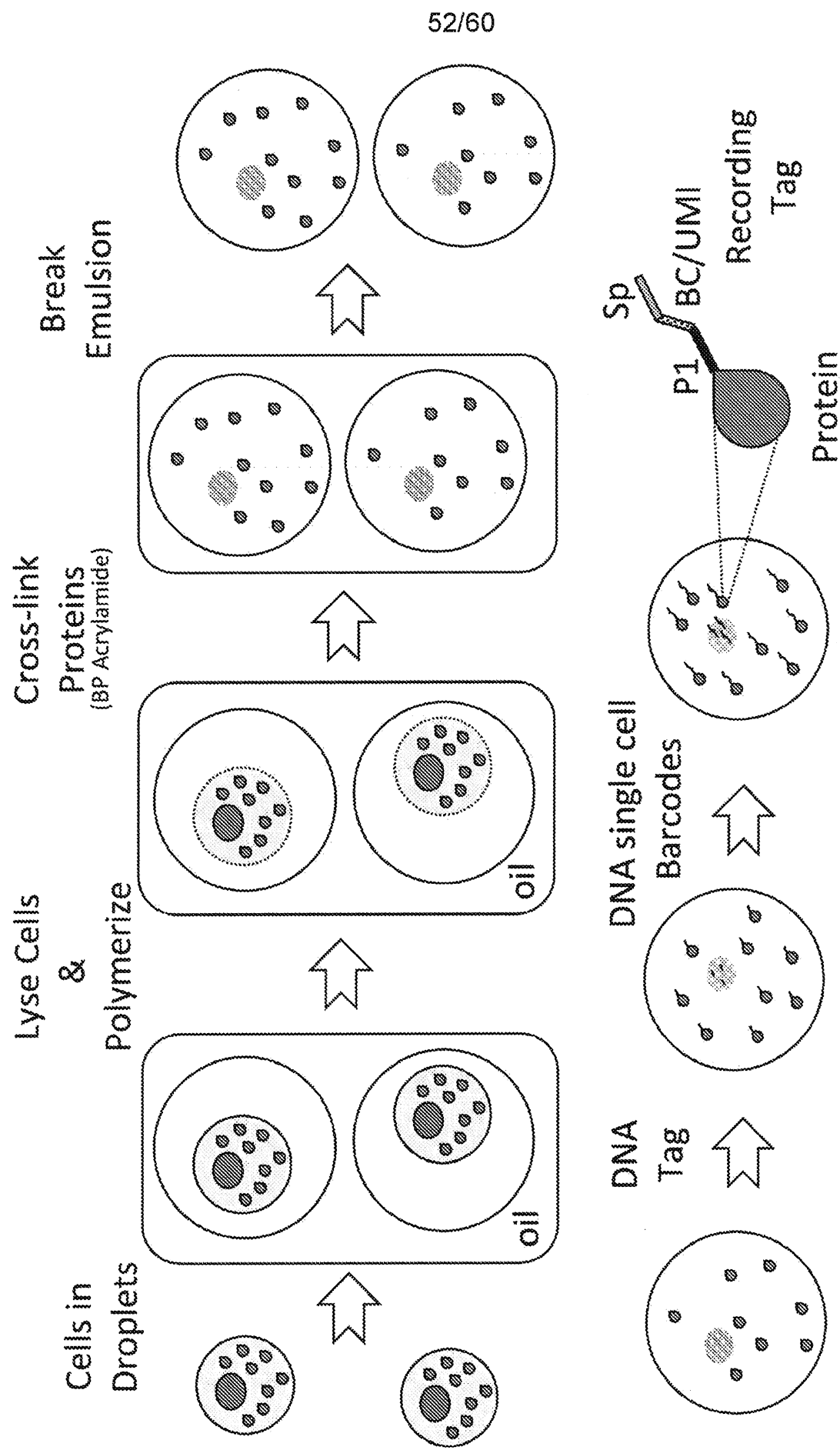


Fig. 38

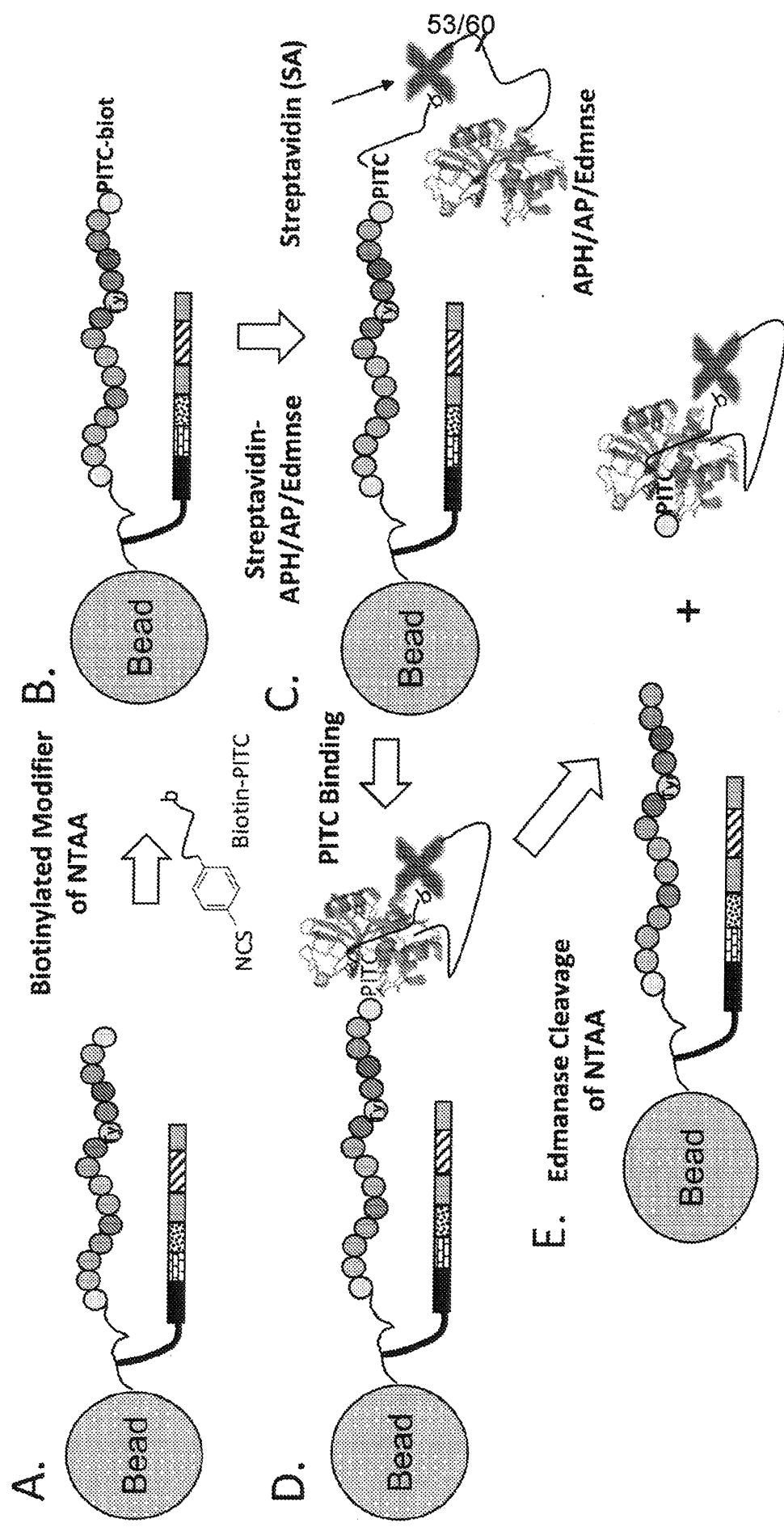
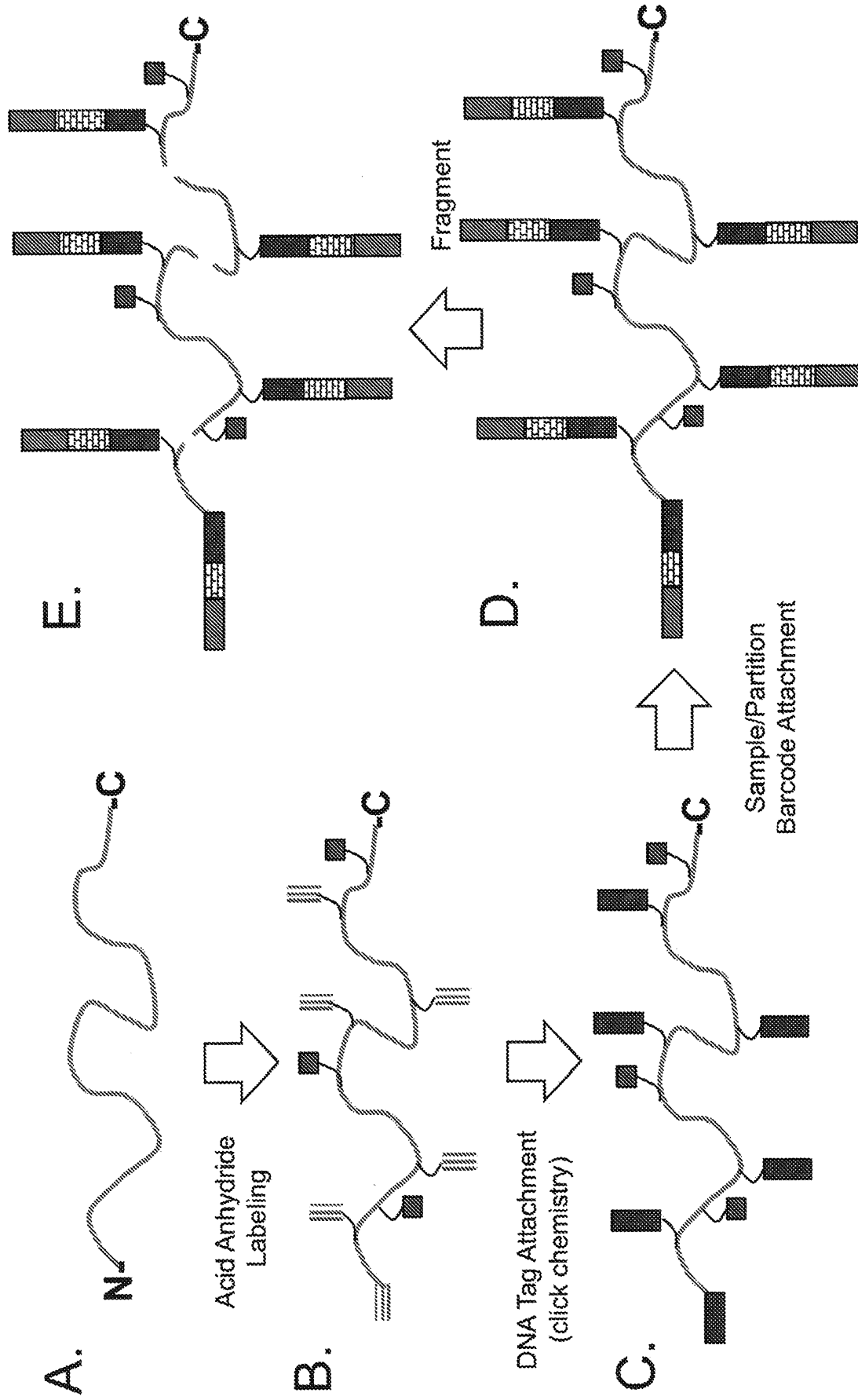
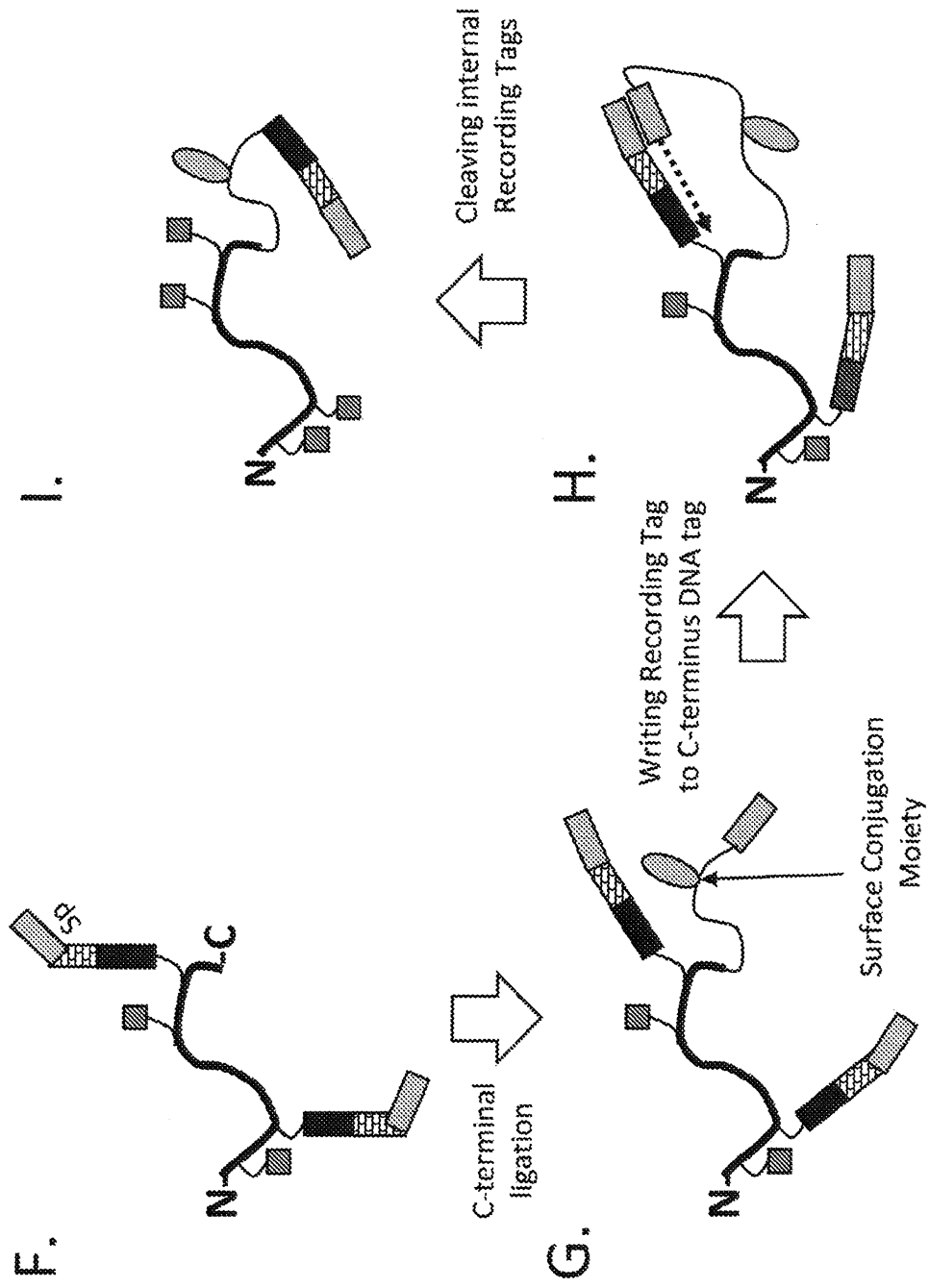


Fig. 39



Figs. 40A-D



Figs. 40F-H

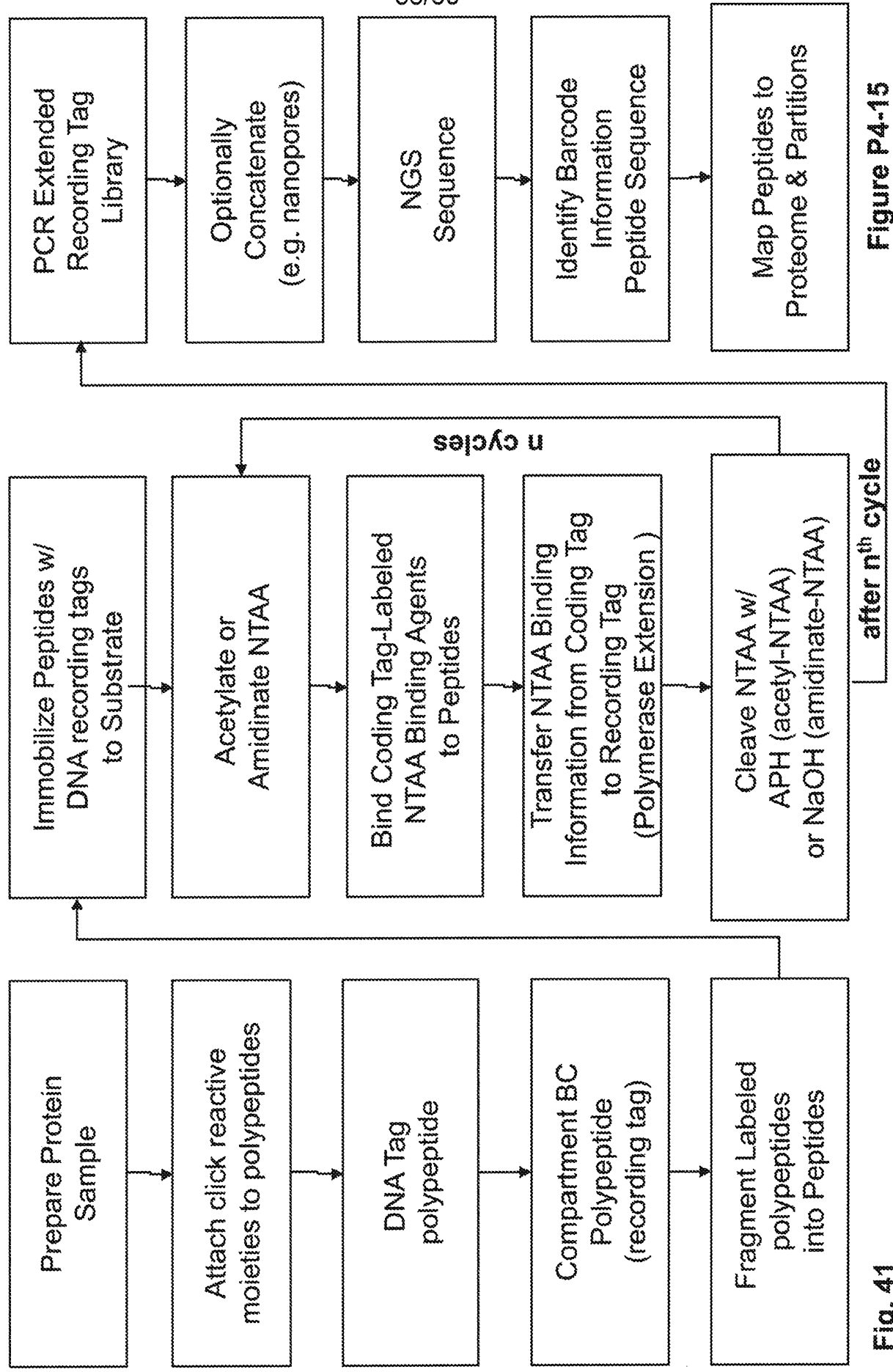


Fig. 41

Figure P4-15

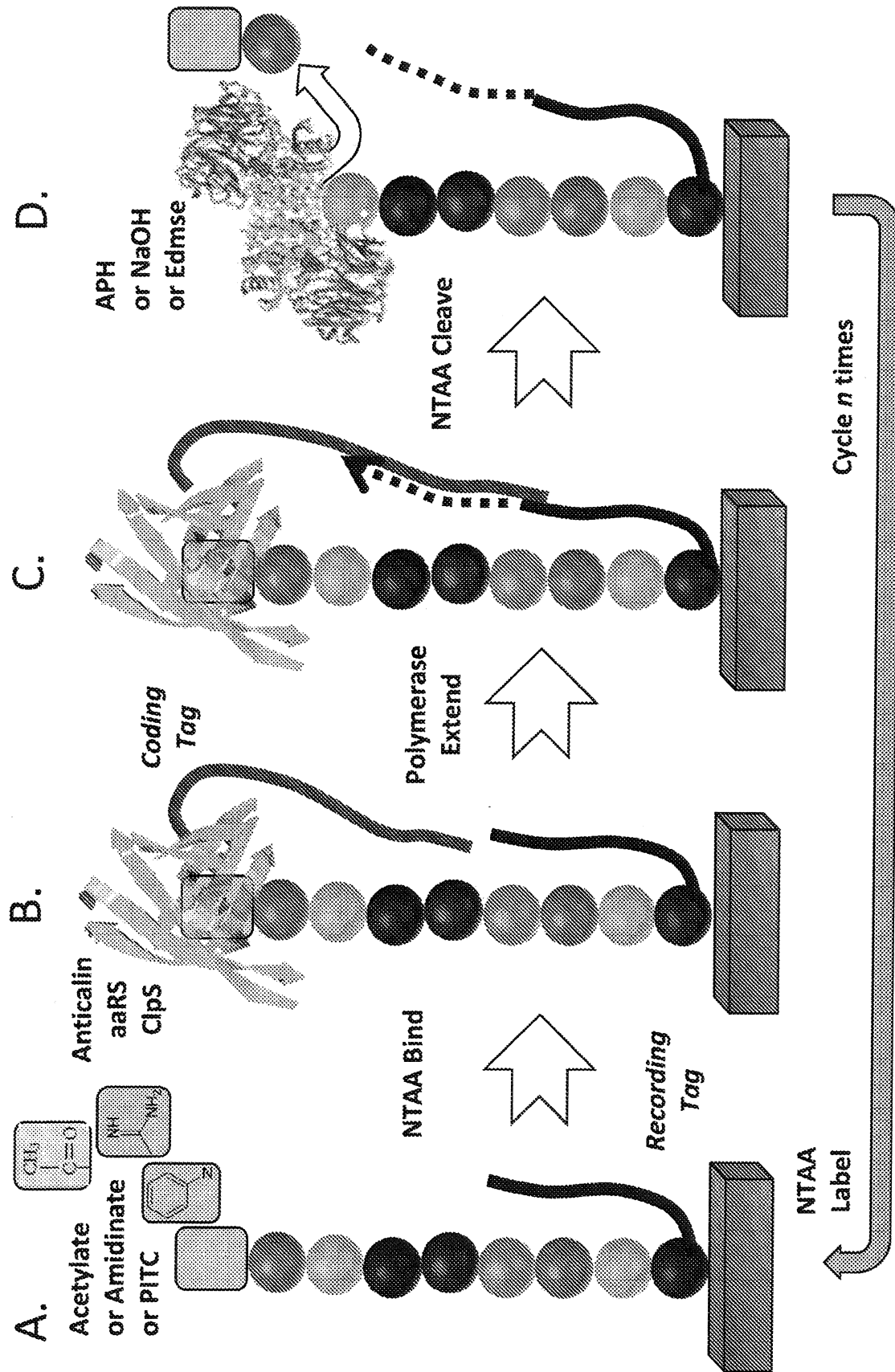


Fig. 42

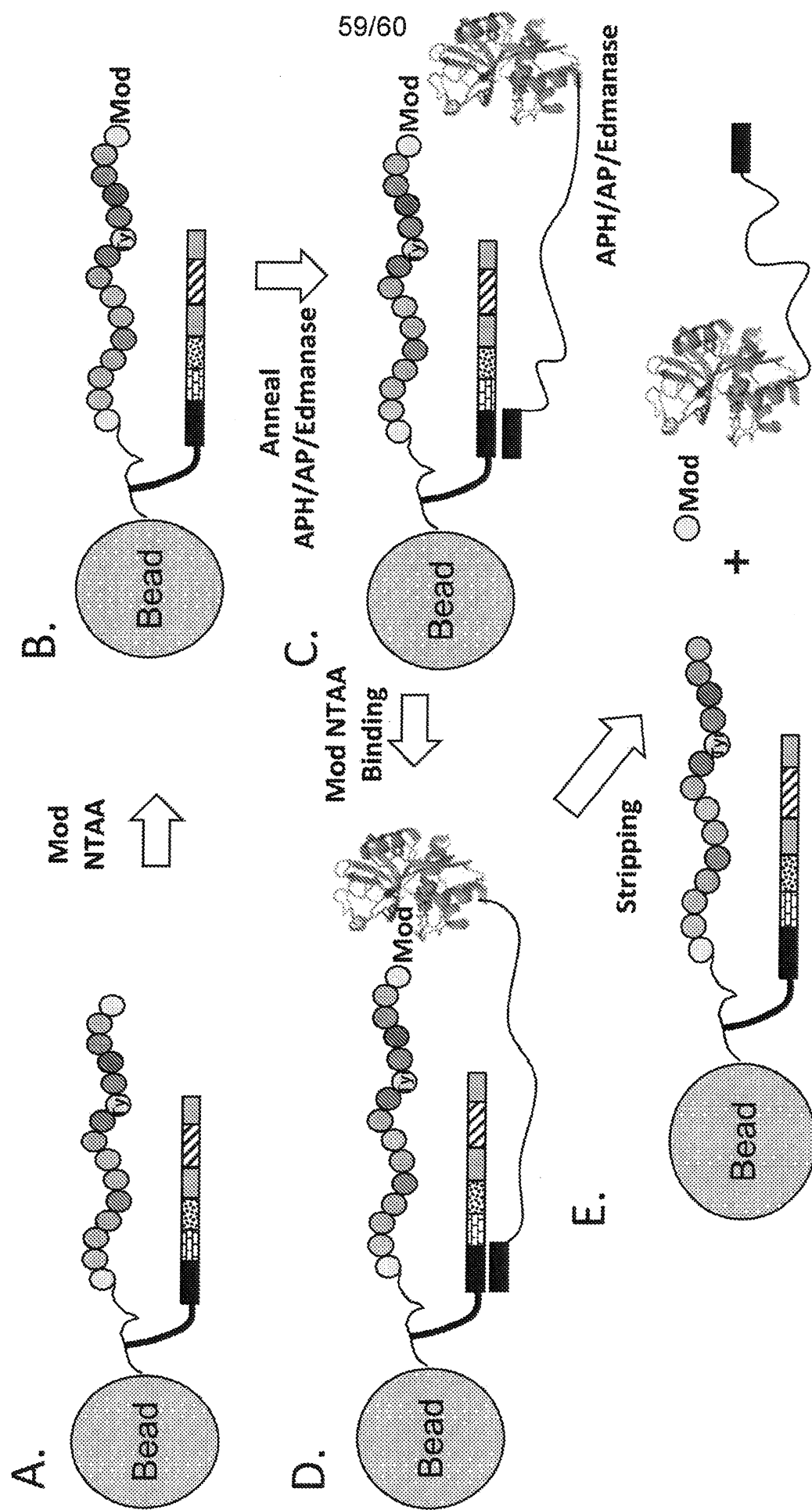


Fig. 44

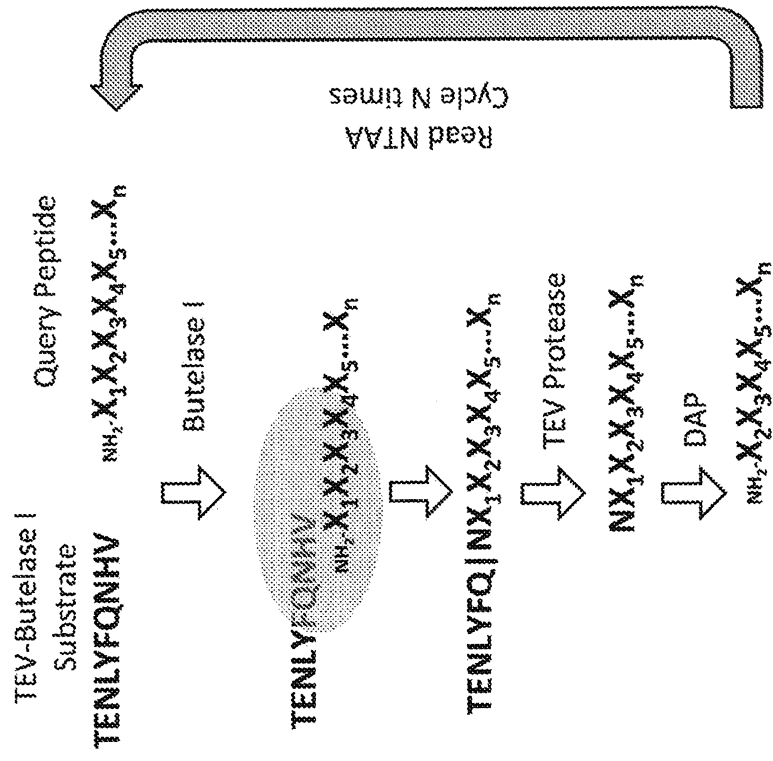


Fig. 45