FIG. 1

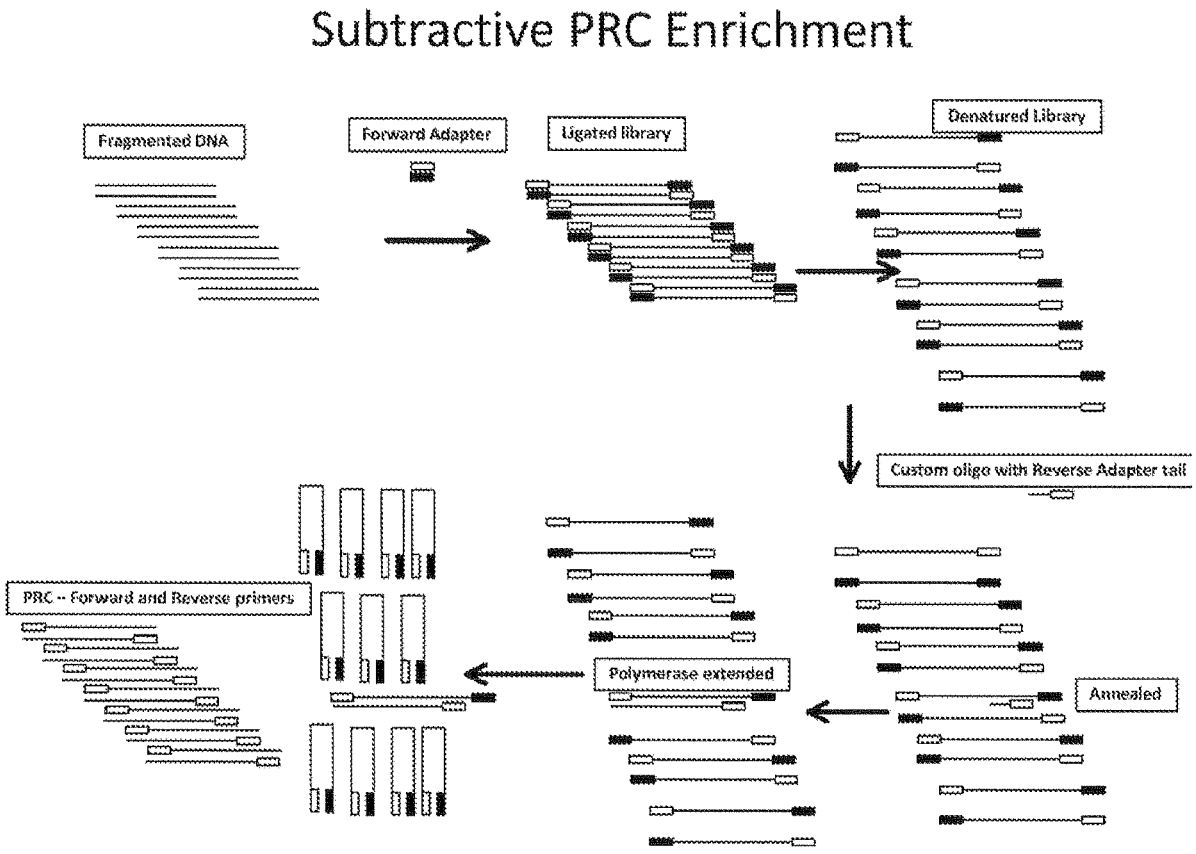

Subtractive PRC Enrichment
Fragmented DNA
Forward Adapter
Ligated library
Denatured Library
Custom oligo with Reverse Adapter tail
Annealed
Polymerase extended
PRC – Forward and Reverse primers

FIG. 2

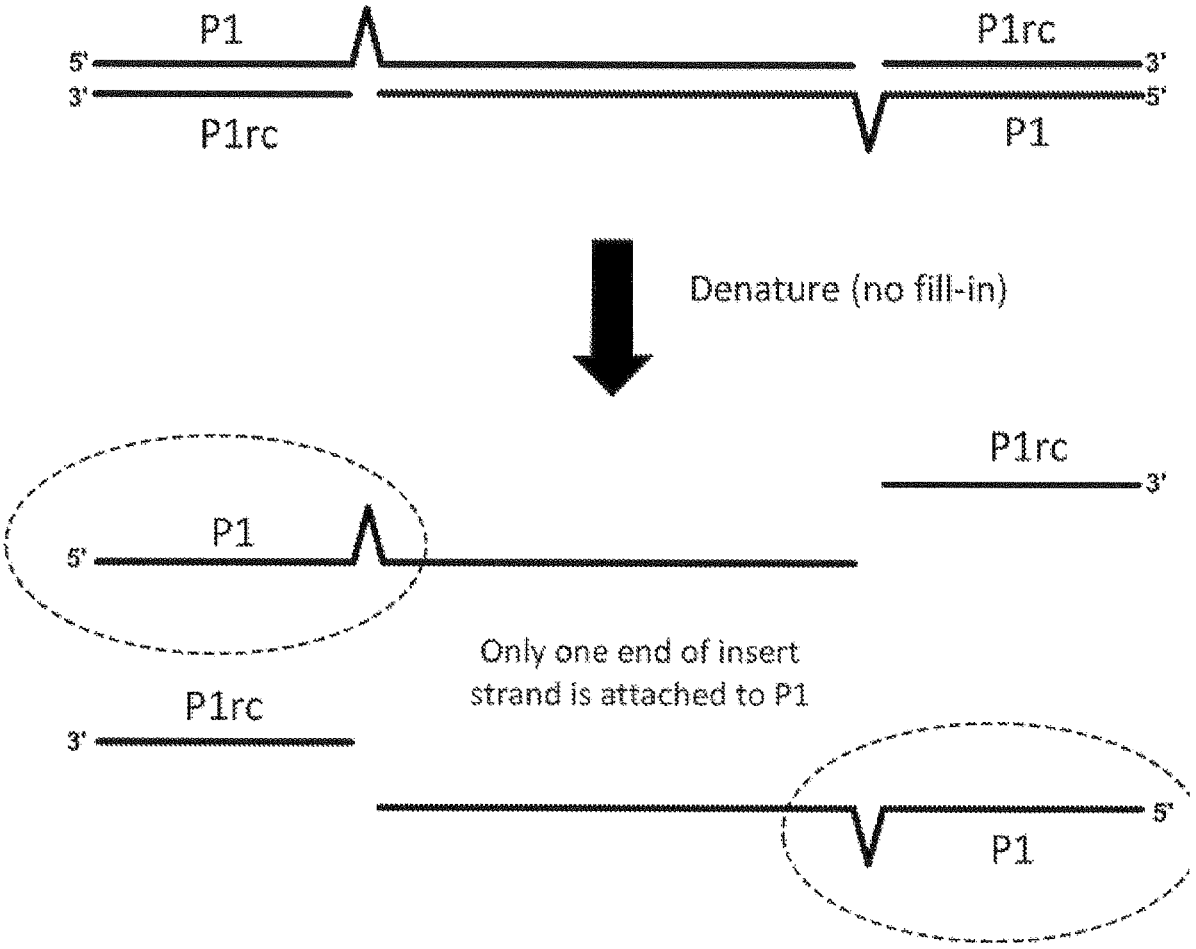

P1
P1rc
5'
3'
3'
5'
P1rc
P1
Denature (no fill-in)
P1rc
3'
P1
5'
Only one end of insert
strand is attached to P1
P1rc
3'
5'
P1

FIG. 3

**Primer Directed Targeted Enrichment Of Sequences Of Interest In A Complex Library**

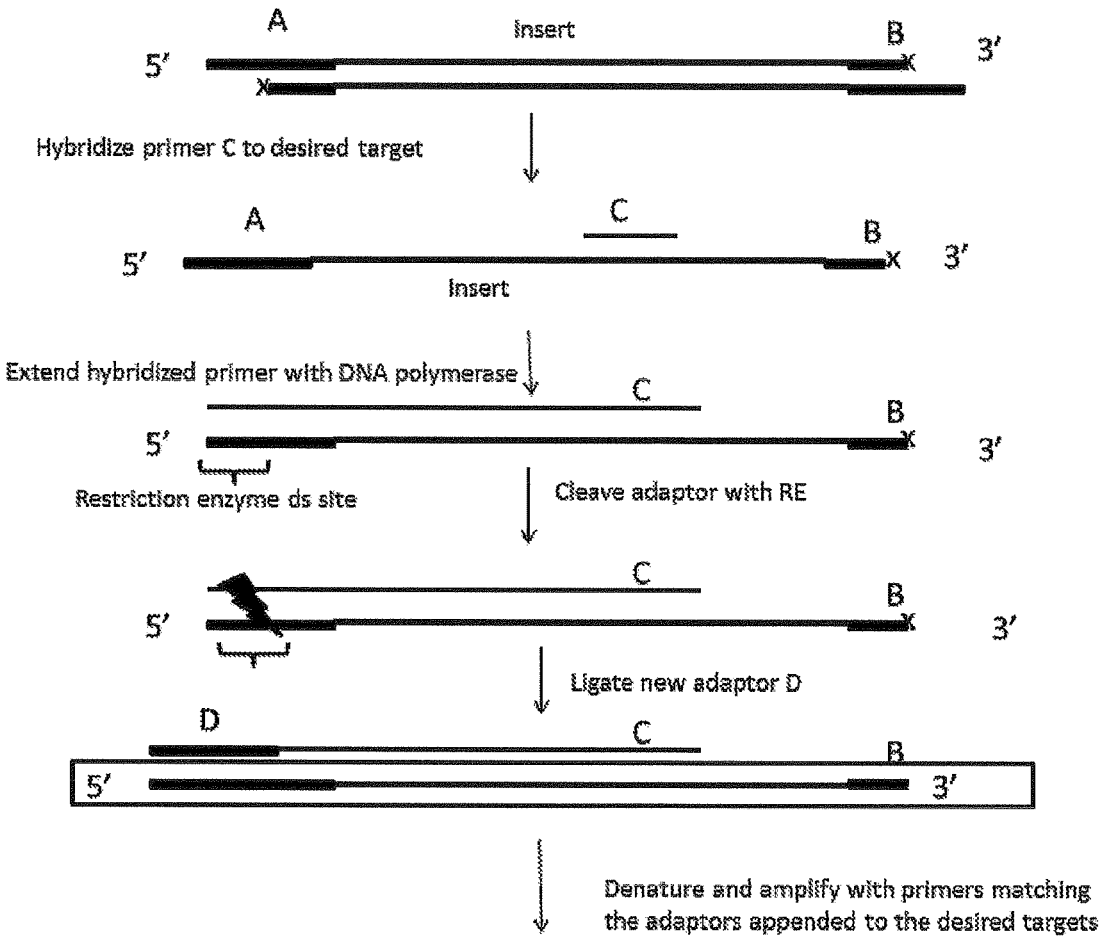
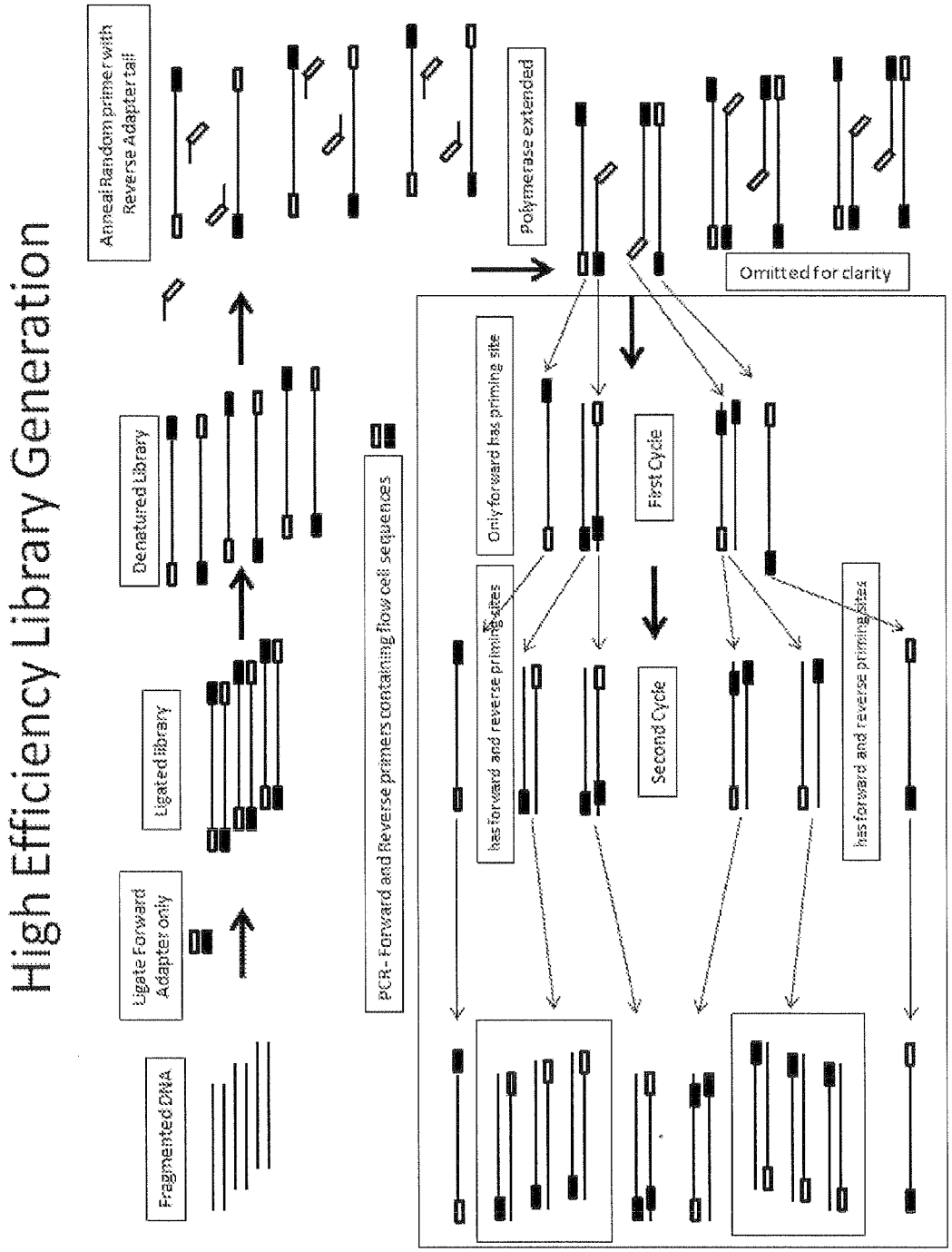


FIG. 4


High Efficiency Library Generation
Fragmented DNA
Ligate Forward Adapter only
Ligated library
Denatured Library
Anneal Random primer with Reverse Adapter tail
Polymerase extended
Omitted for clarity
PCR - Forward and Reverse primers containing flow cell sequences
Only forward has priming site
has forward and reverse priming sites
First Cycle
Second Cycle
has forward and reverse priming sites