

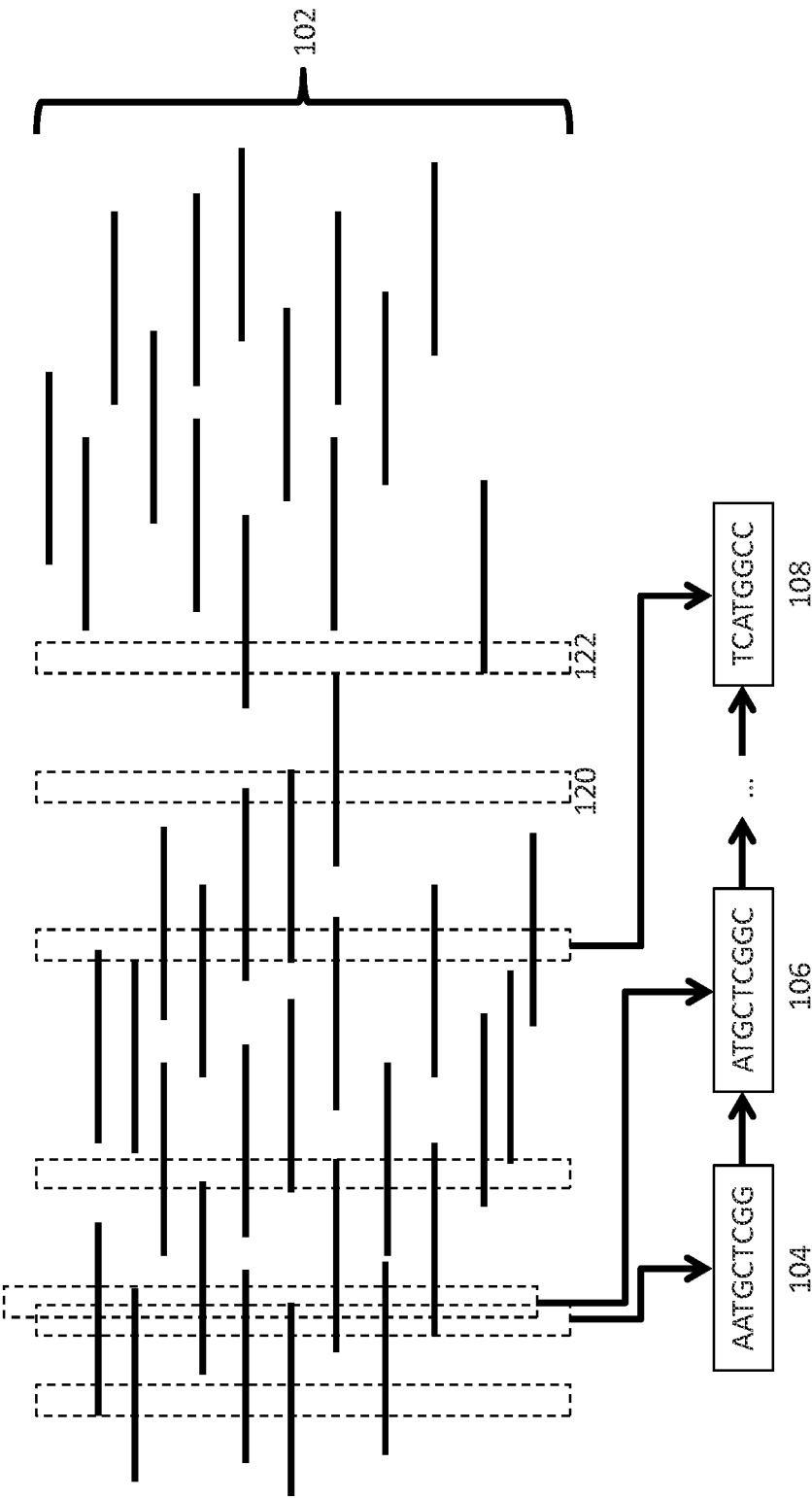


Figure 1A

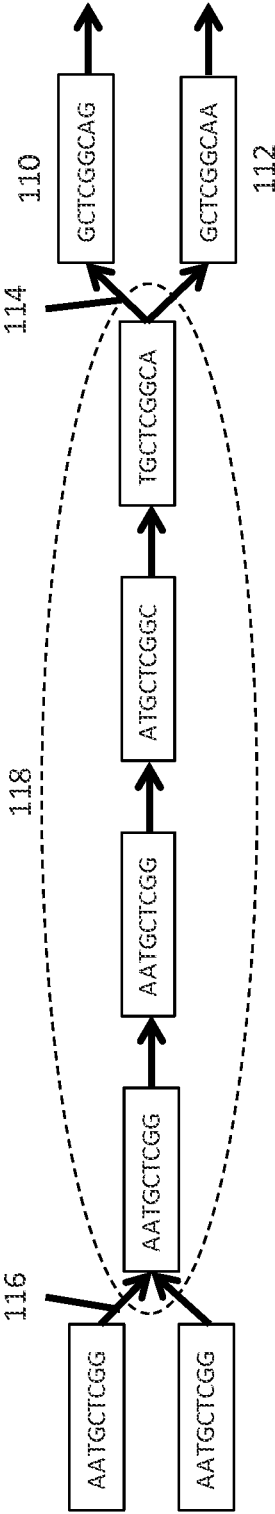


Figure 1B

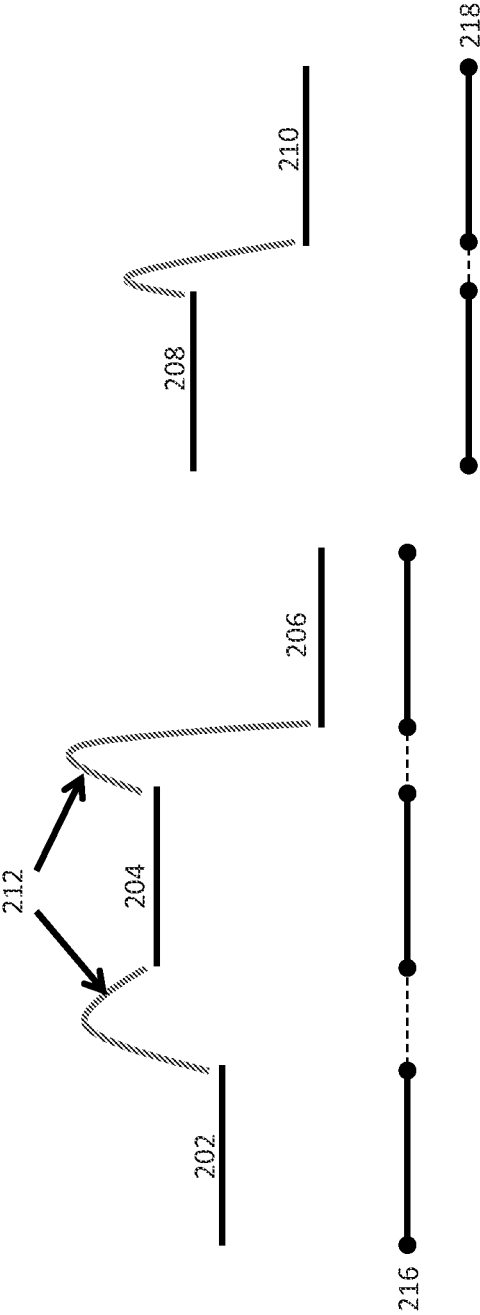


Figure 2

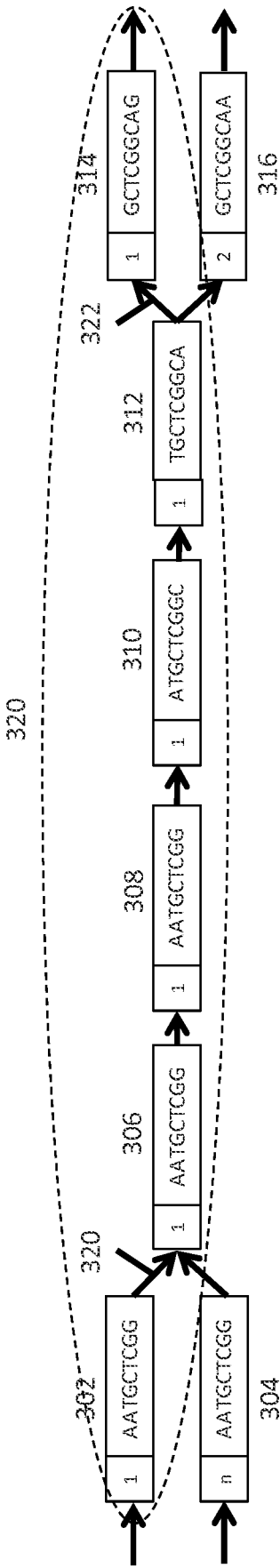


Figure 3

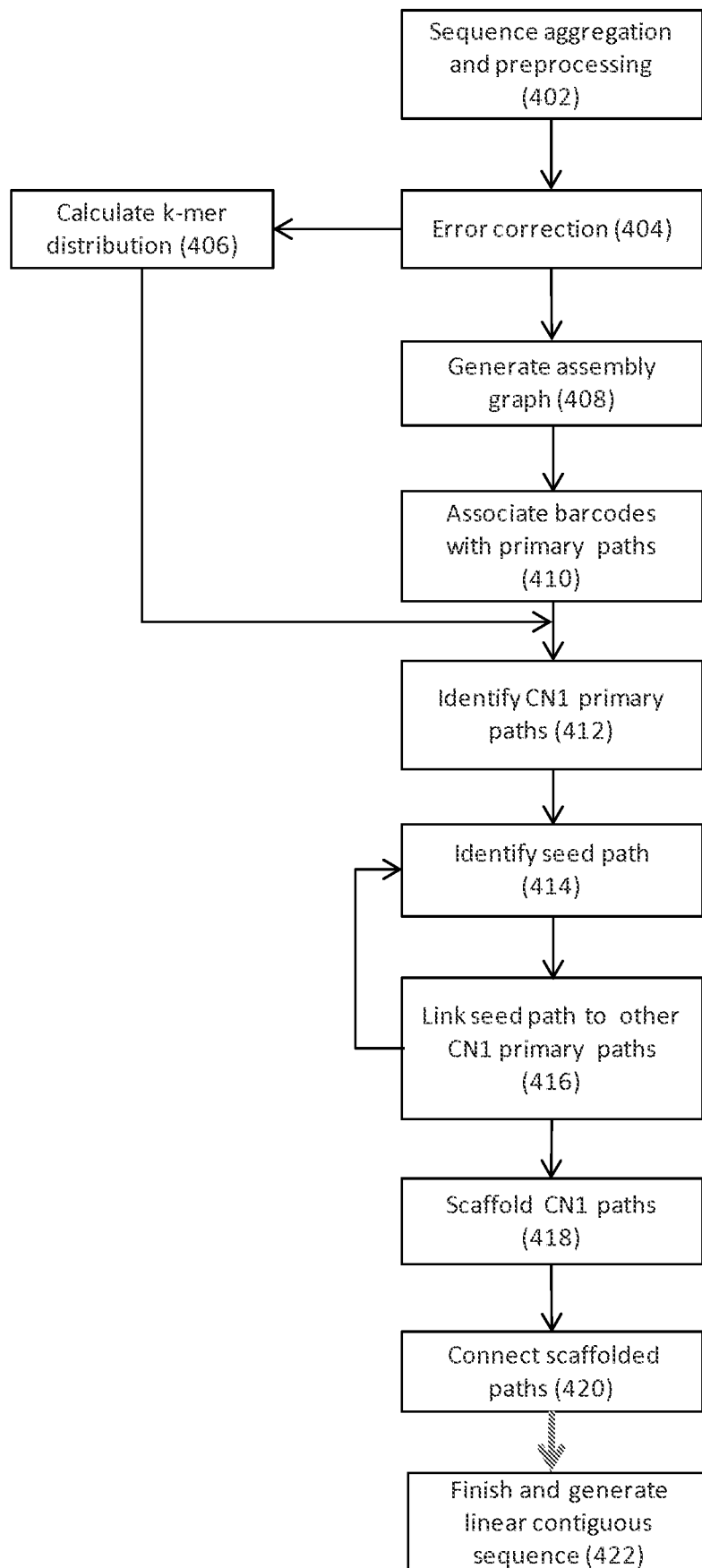


Figure 4

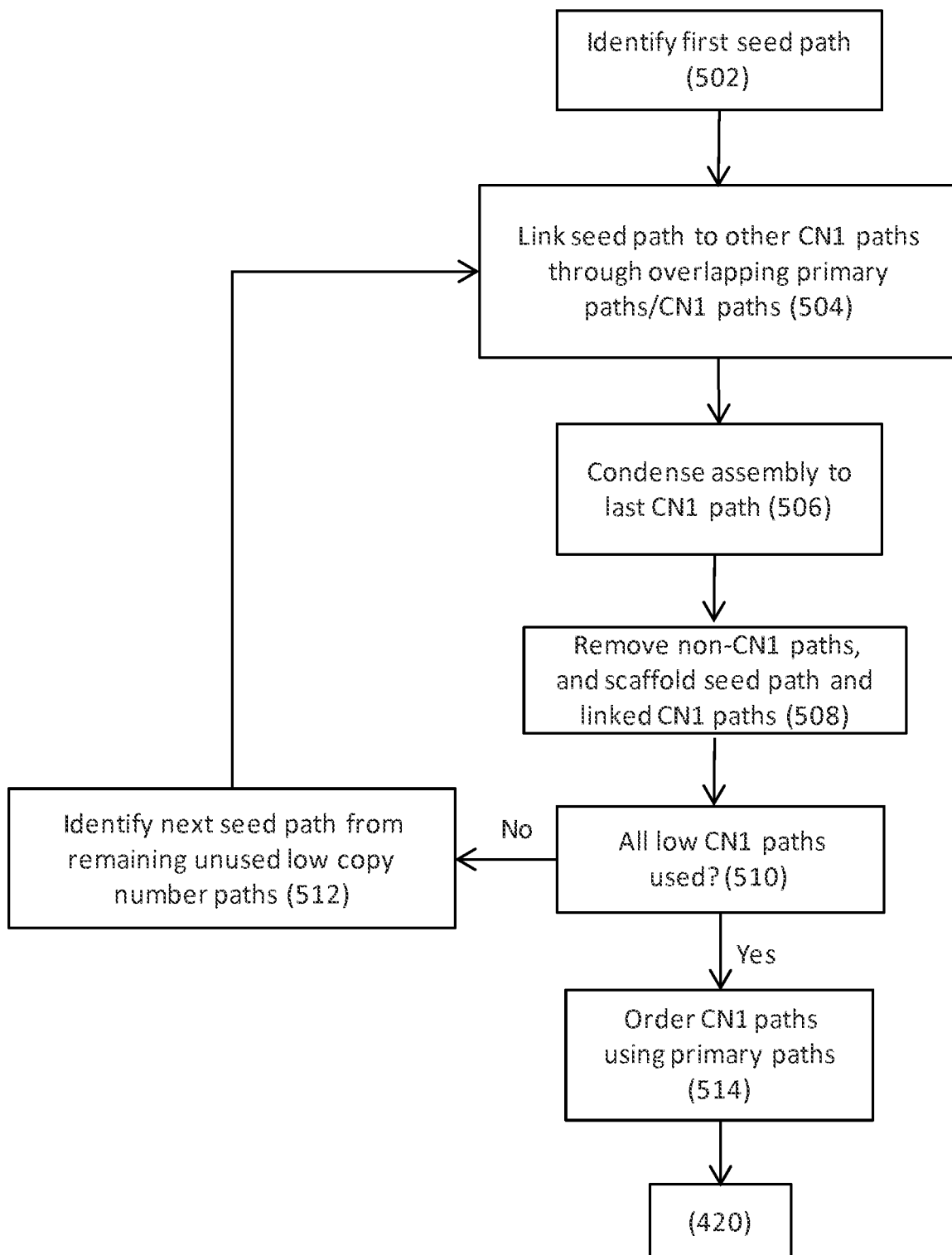


Figure 5

Reconstructed Graph Utilizing Barcoded Data

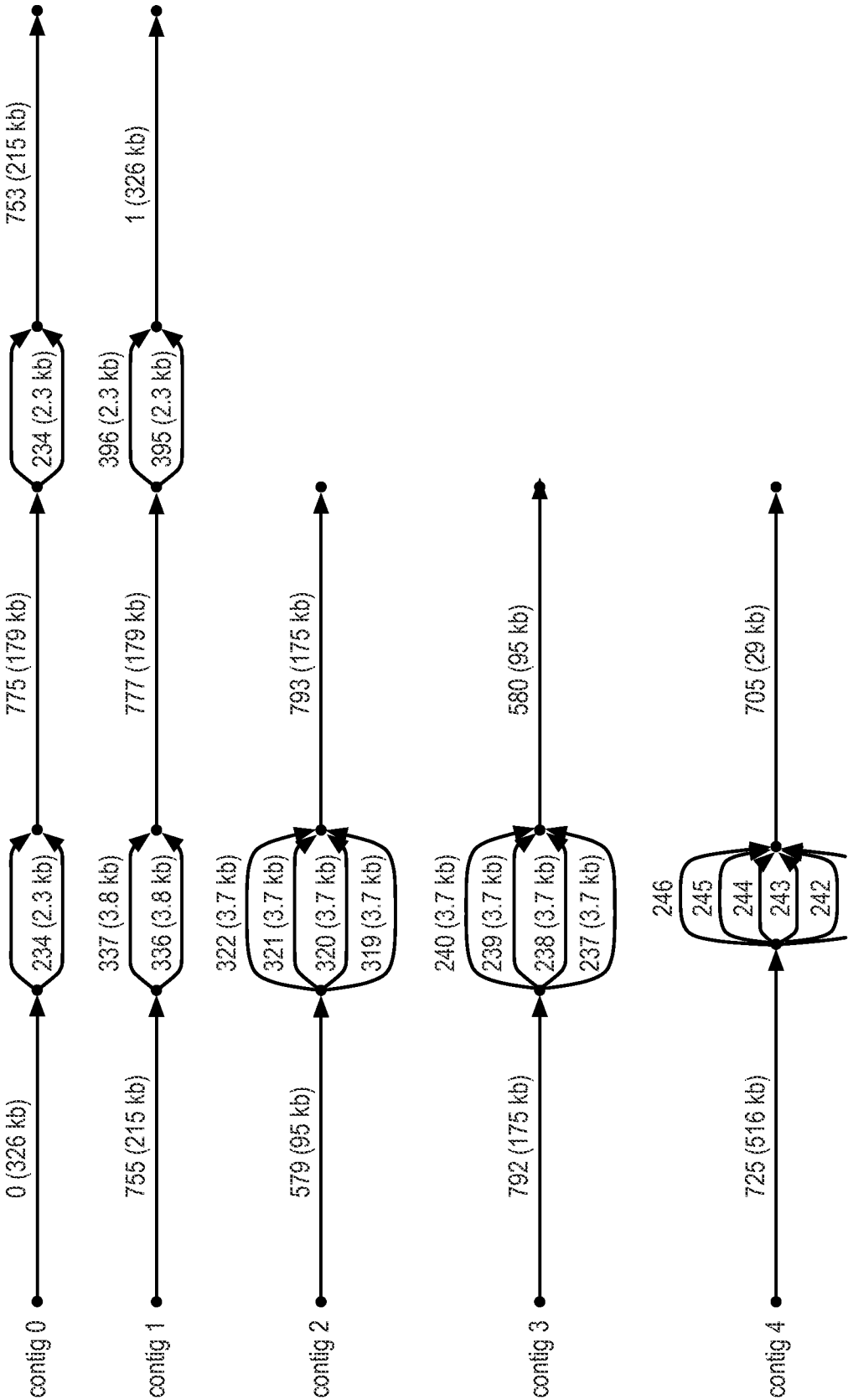


Figure 6A

Reconstructed Graph Utilizing Barcoded Data (Continued)

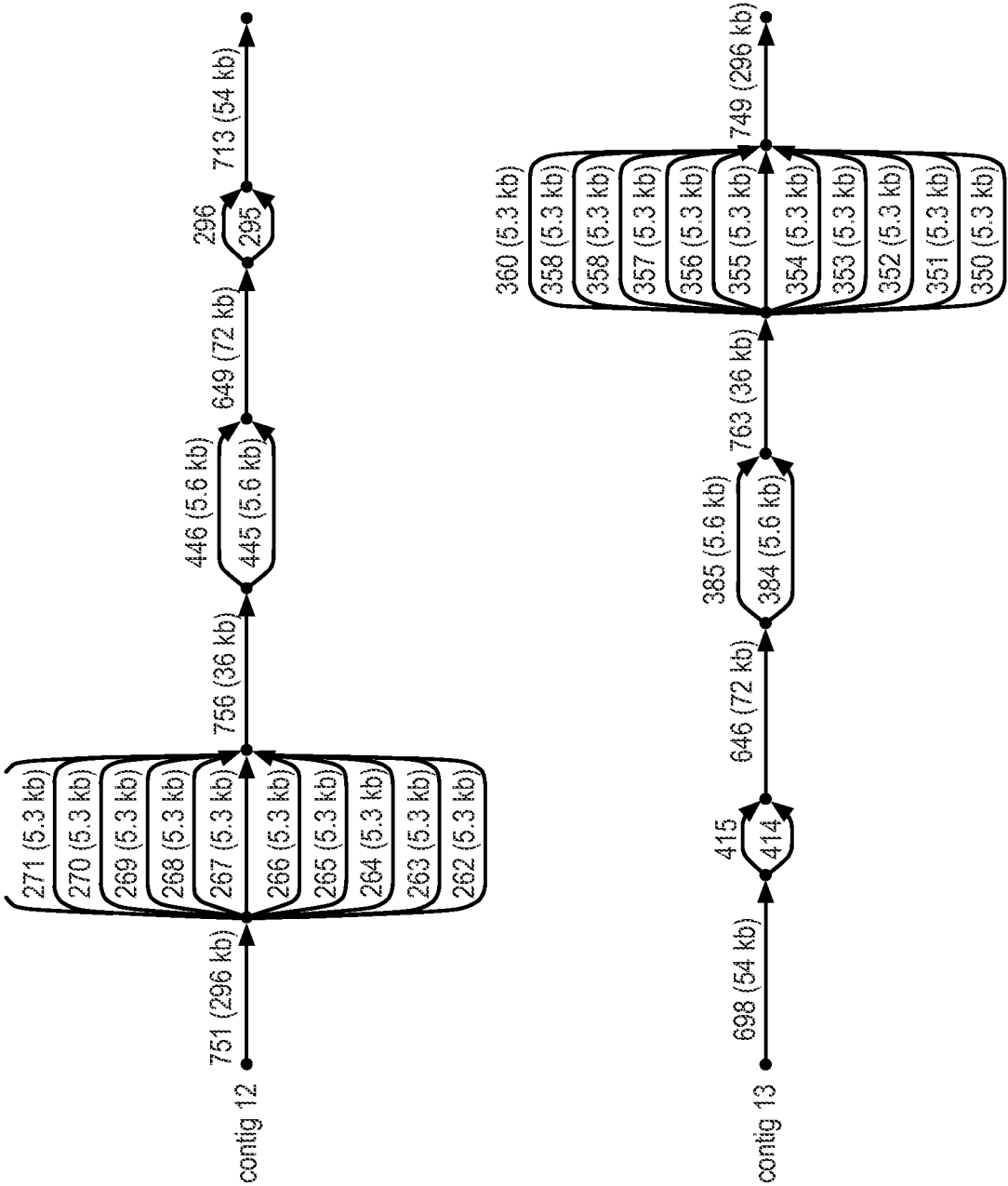


Figure 6B

Reconstructed Graph Utilizing Barcoded Data (Continued)

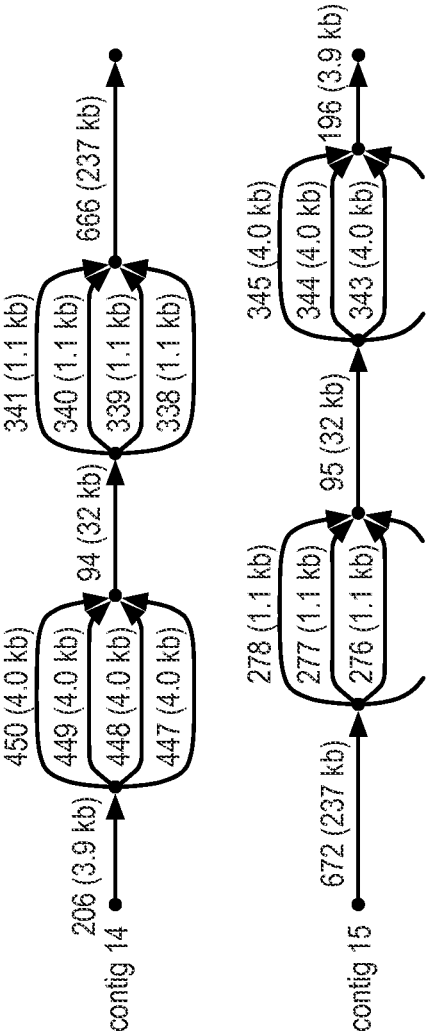


Figure 6C

Reconstructed Graph Utilizing Barcoded Data (Continued)

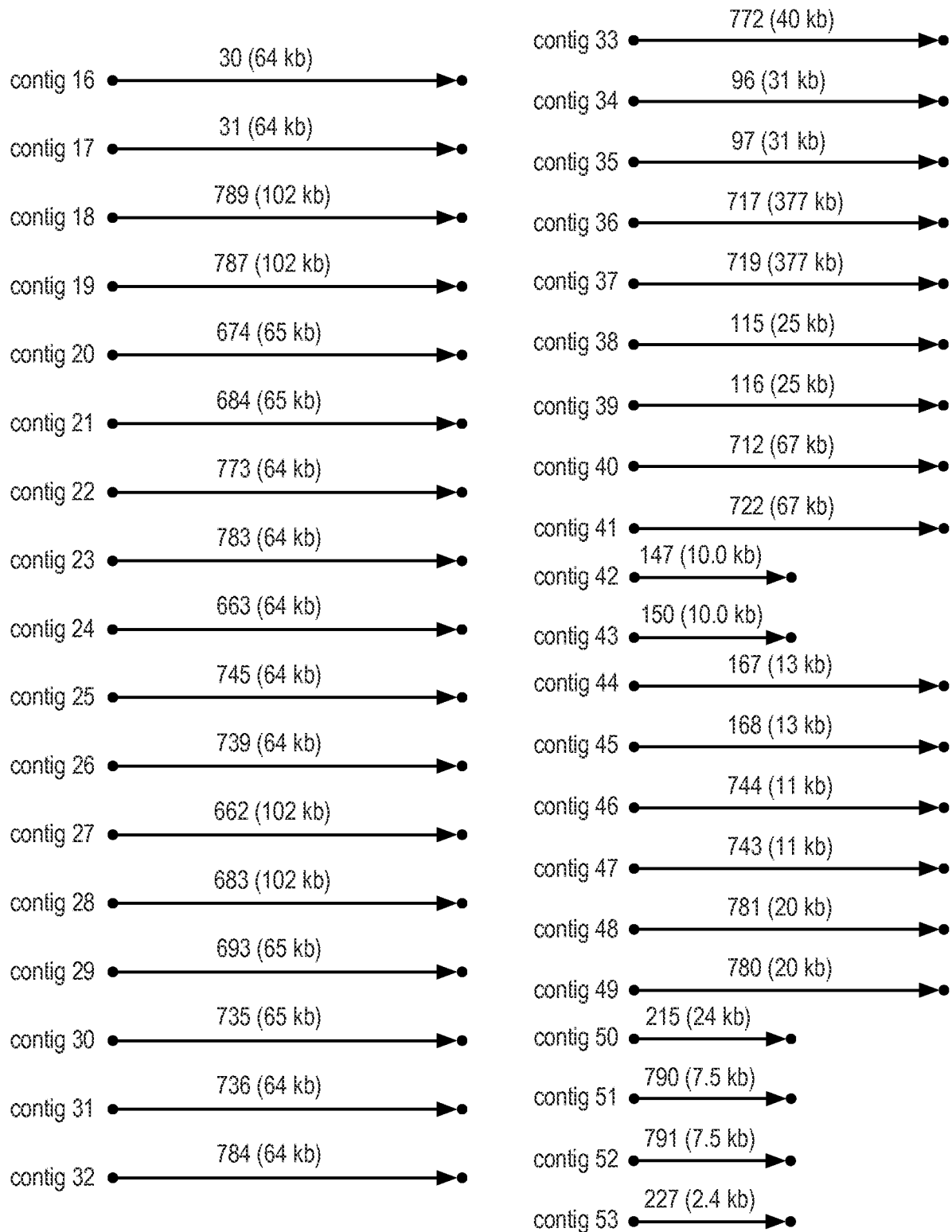
Contig N50
570 Kilobases

Figure 6D

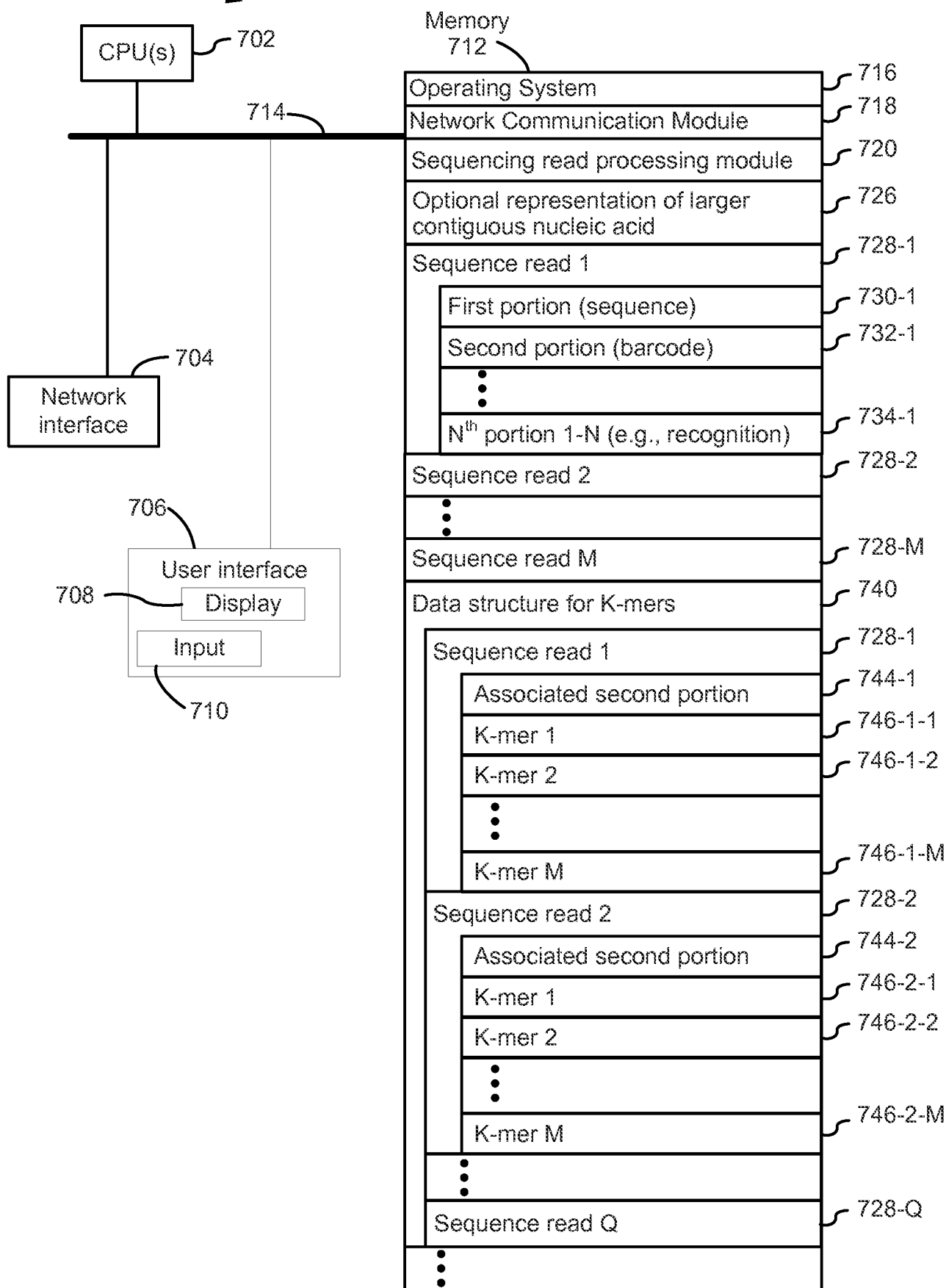


Figure 7

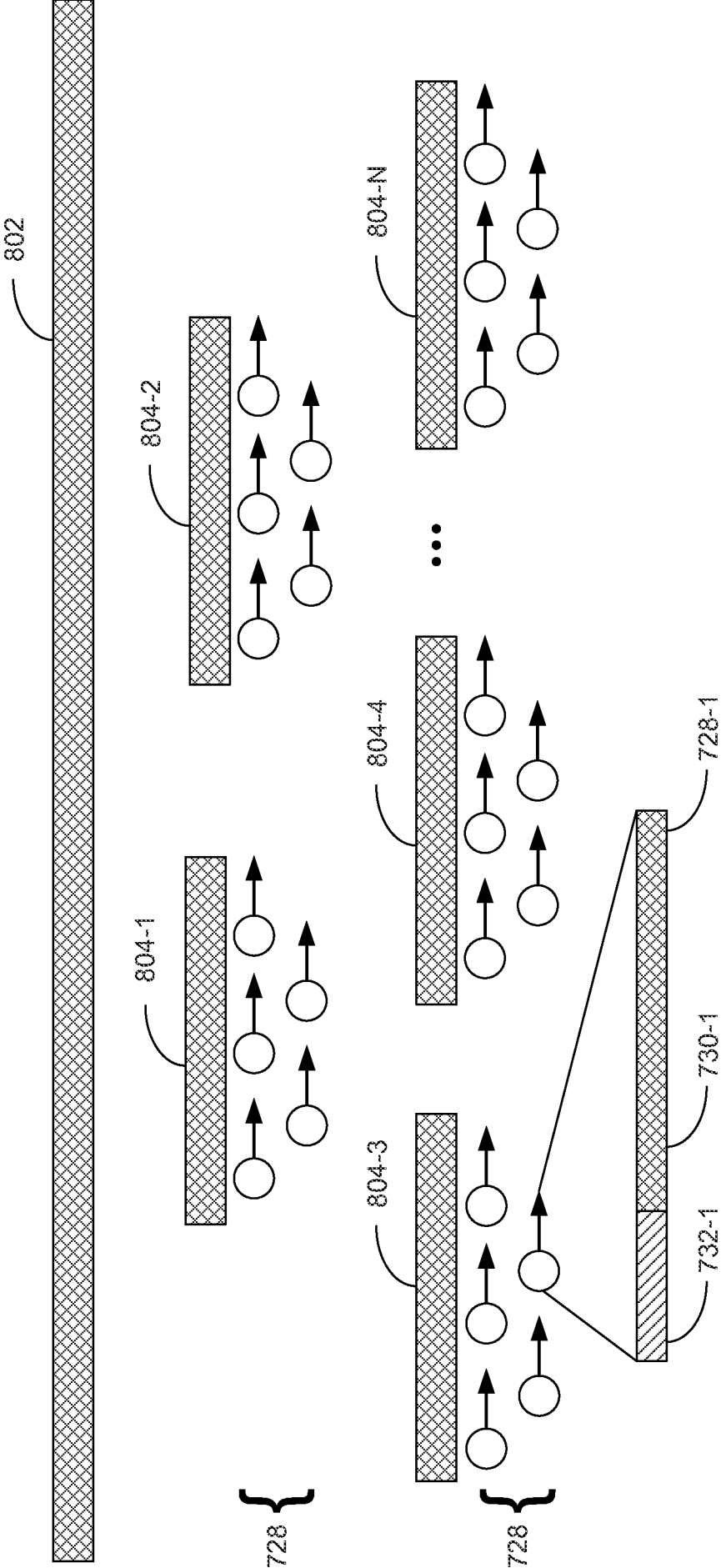


Figure 8

		3-mer					
h(W)		W					
0	AAA	16	CAA	32	GAA	48	TAA
1	AAC	17	CAC	33	GAC	49	TAC
2	AAG	18	CAG	34	GAG	50	TAG
3	AAT	19	CAT	35	GAT	51	TAT
4	ACA	20	CCA	36	GCA	52	TCA
5	ACC	21	CCC	37	GCC	53	TCC
6	ACG	22	CCG	38	GCG	54	TCG
7	ACT	23	CCT	39	GCT	55	TCT
8	AGA	24	CGA	40	GGA	56	TGA
9	AGC	25	CGC	41	GGC	57	TGC
10	AGG	26	CGG	42	GGG	58	TGG
11	AGT	27	CGT	43	GGT	59	TGT
12	ATA	28	CTA	44	GTA	60	TTA
13	ATC	29	CTC	45	GTC	61	TTC
14	ATG	30	CTG	46	GTG	62	TTG
15	ATT	31	CTT	47	GTT	63	TTT

Figure 9

G A T C C A T C T T
G A T
A T C
T C C
C C A
C A T
A T C
T C T
C T T

Figure 10

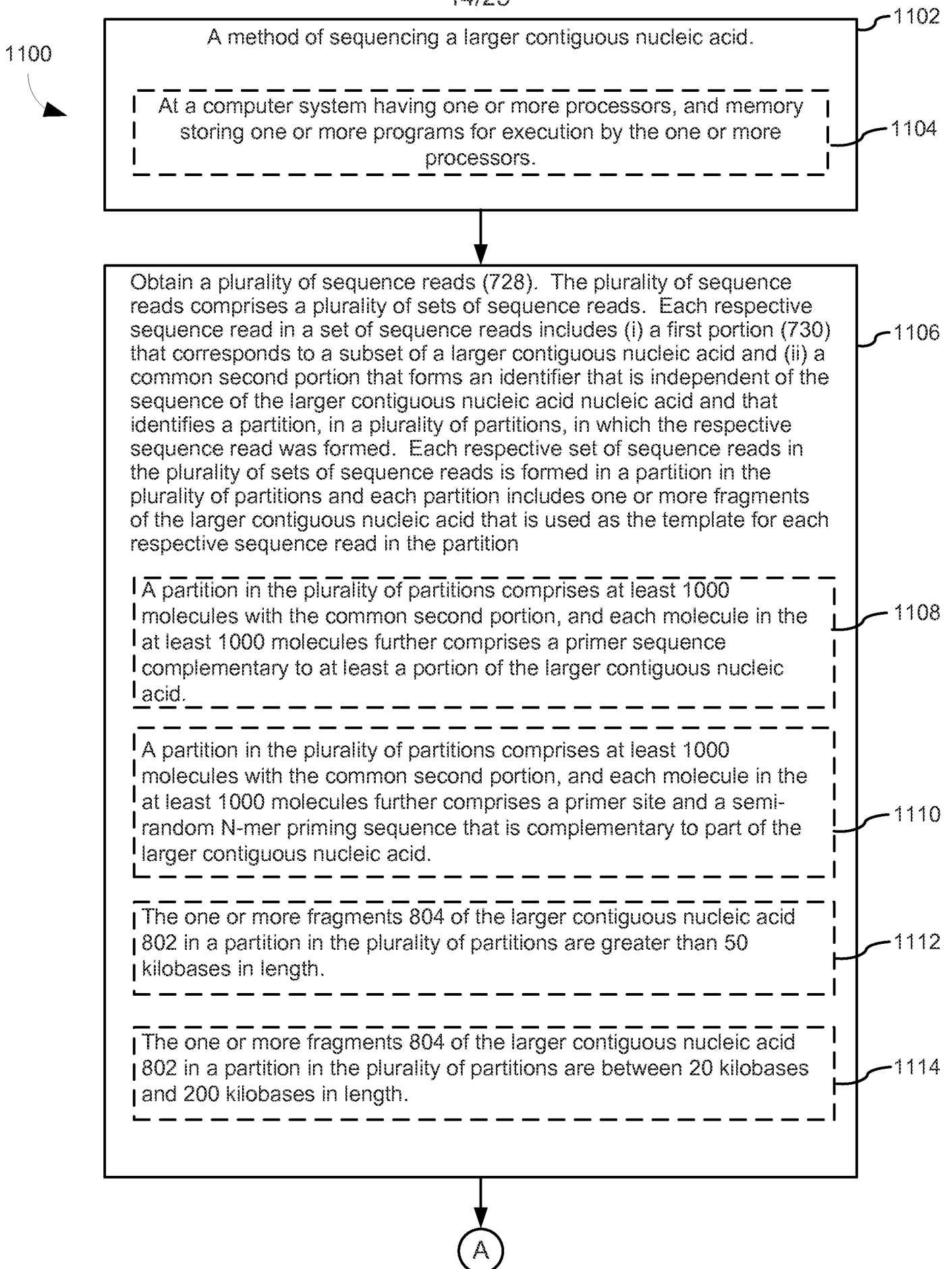


Figure 11A

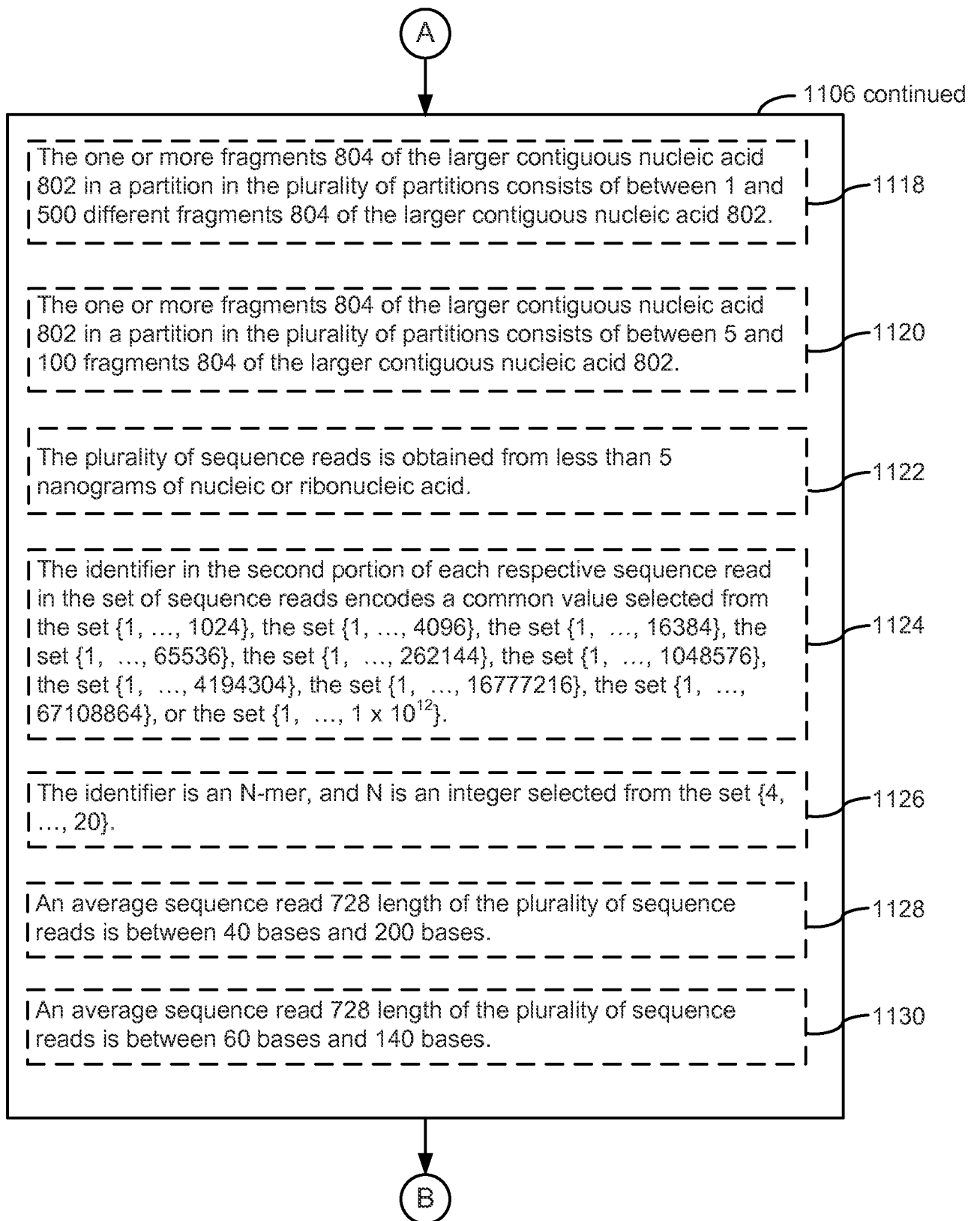
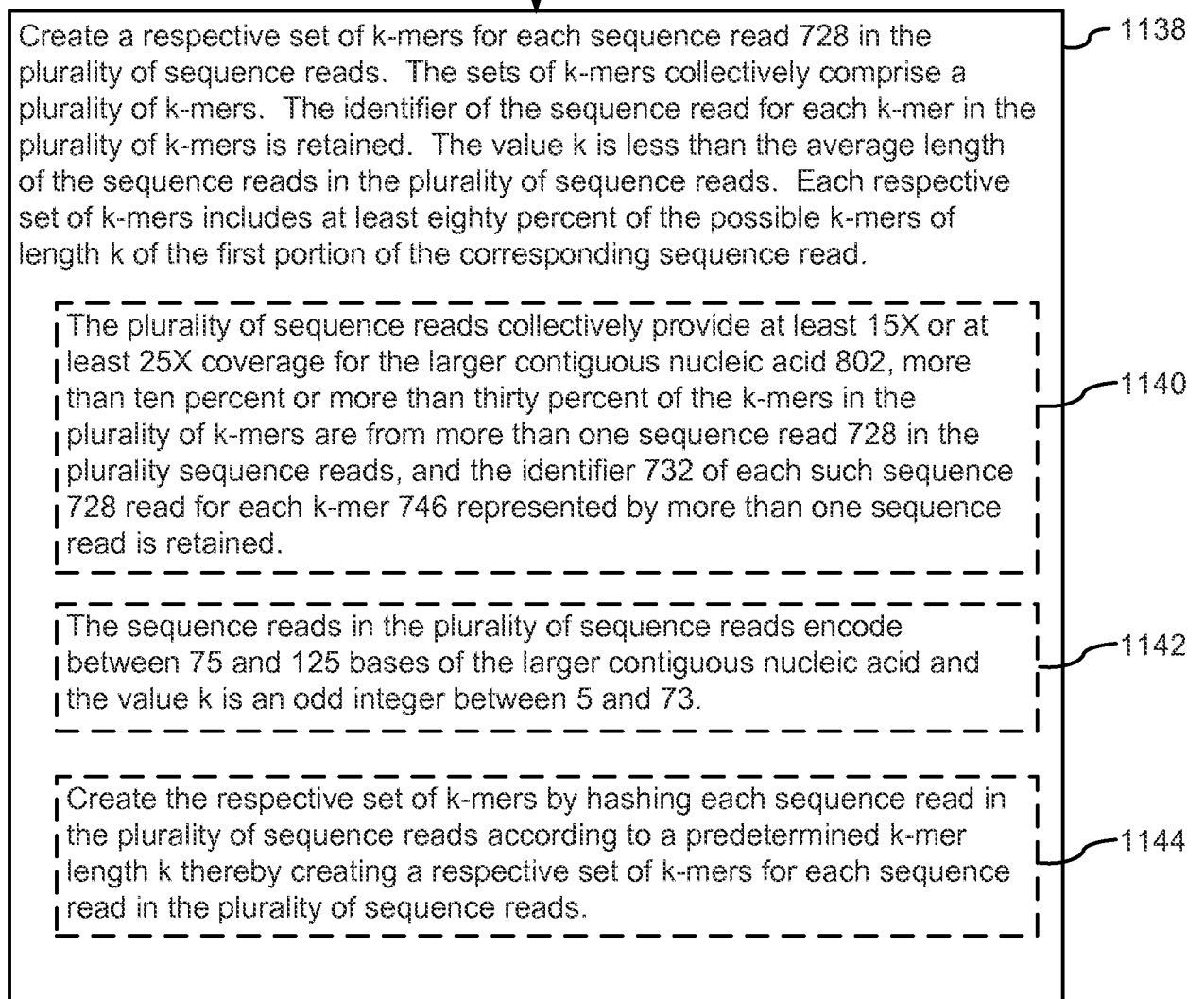
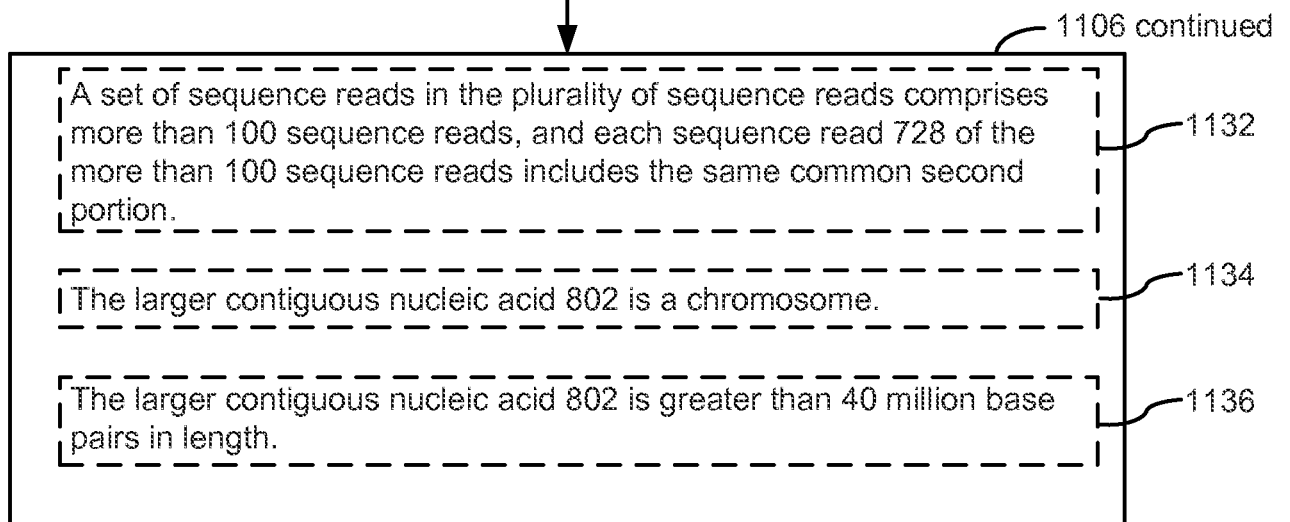


Figure 11B

16/25

B



C

Figure 11C

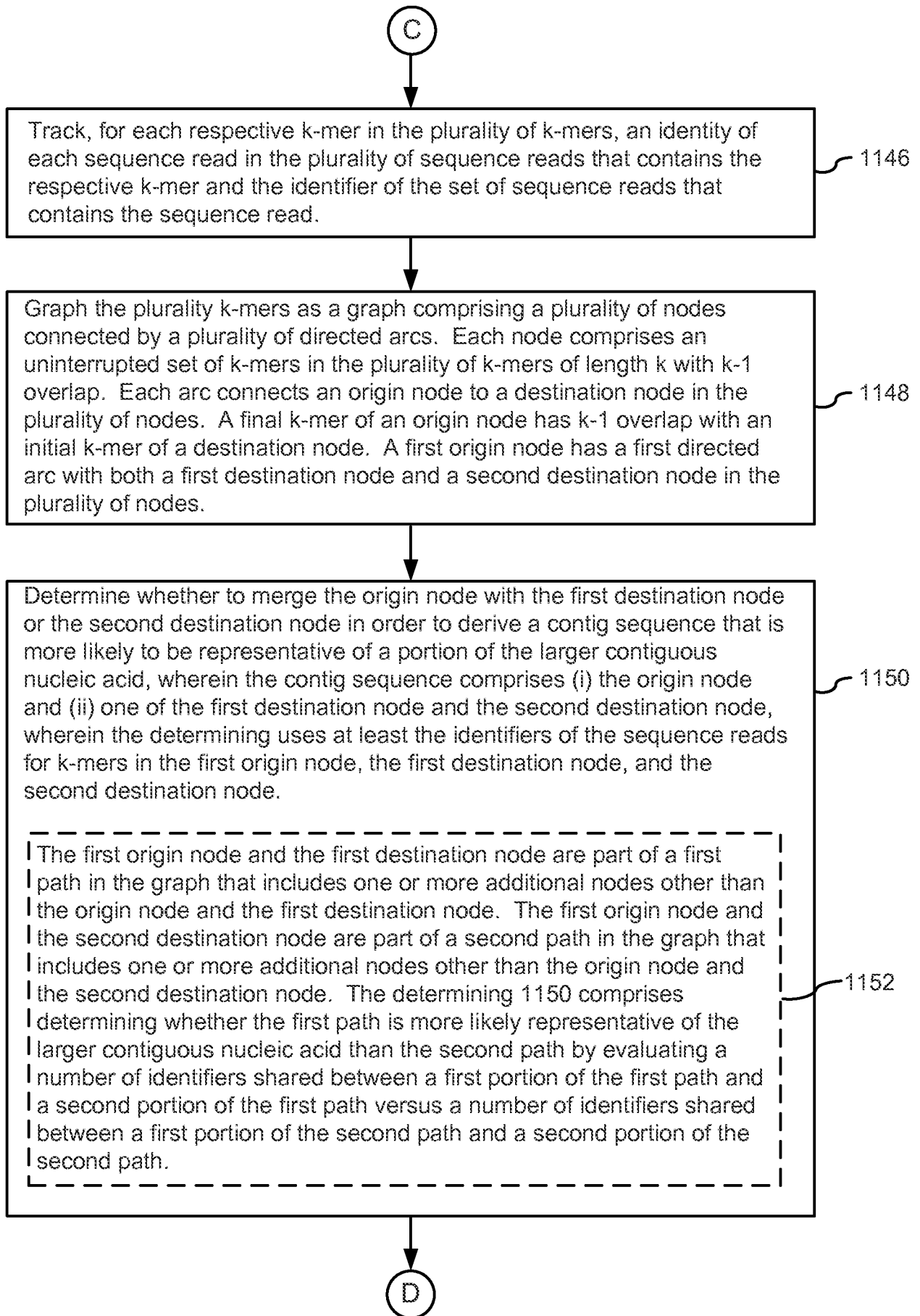


Figure 11D

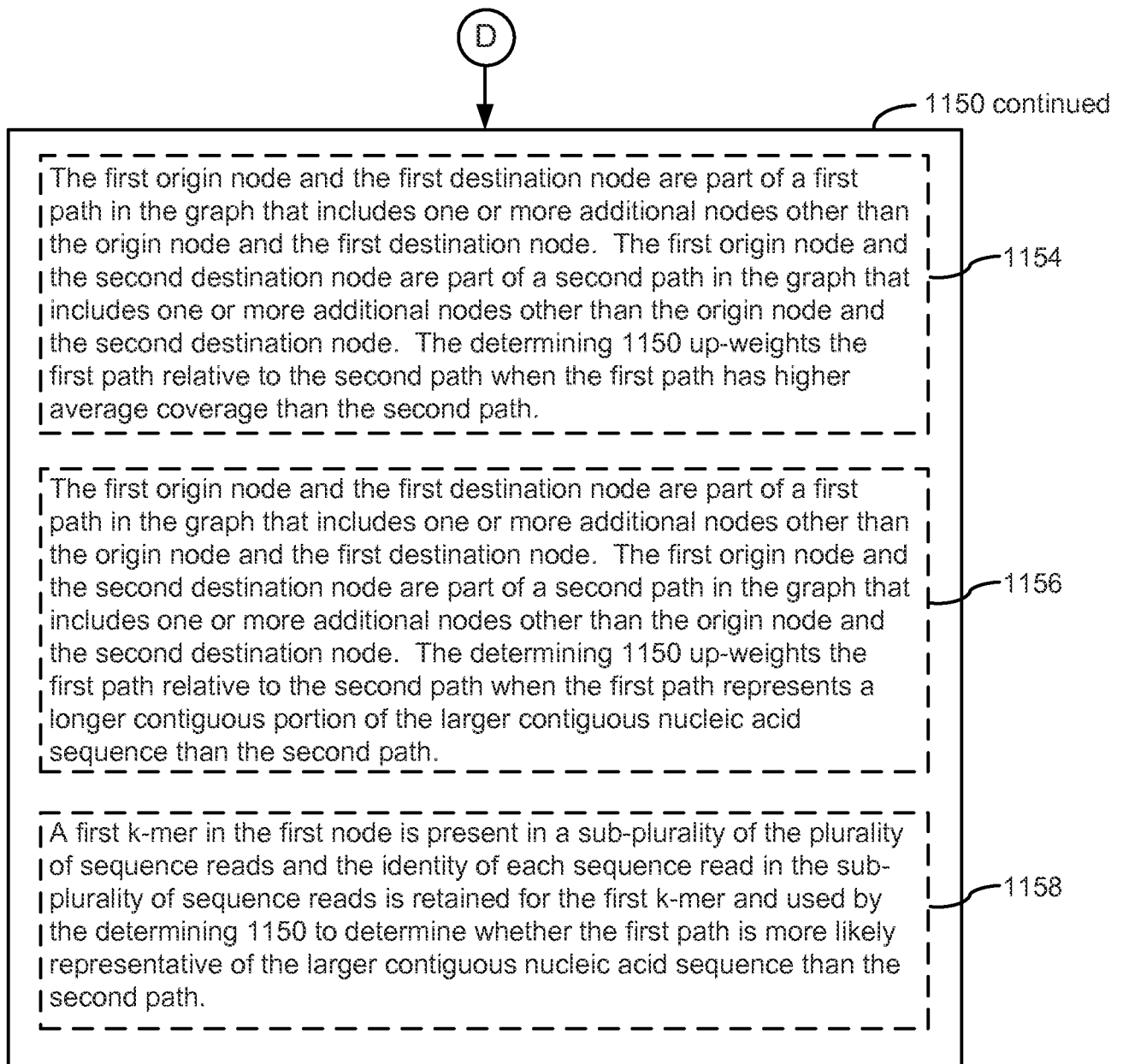


Figure 11E

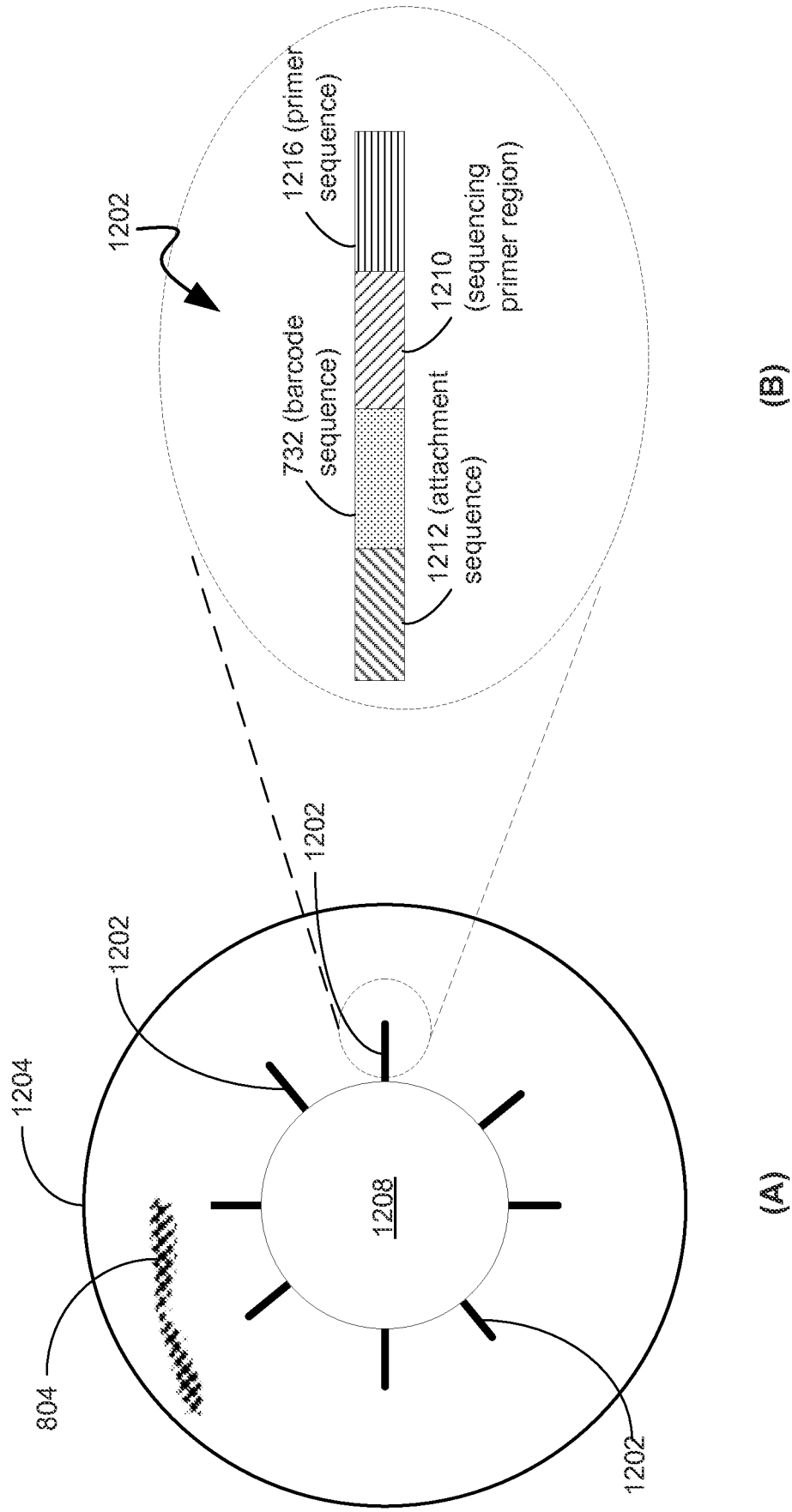


Figure 12A

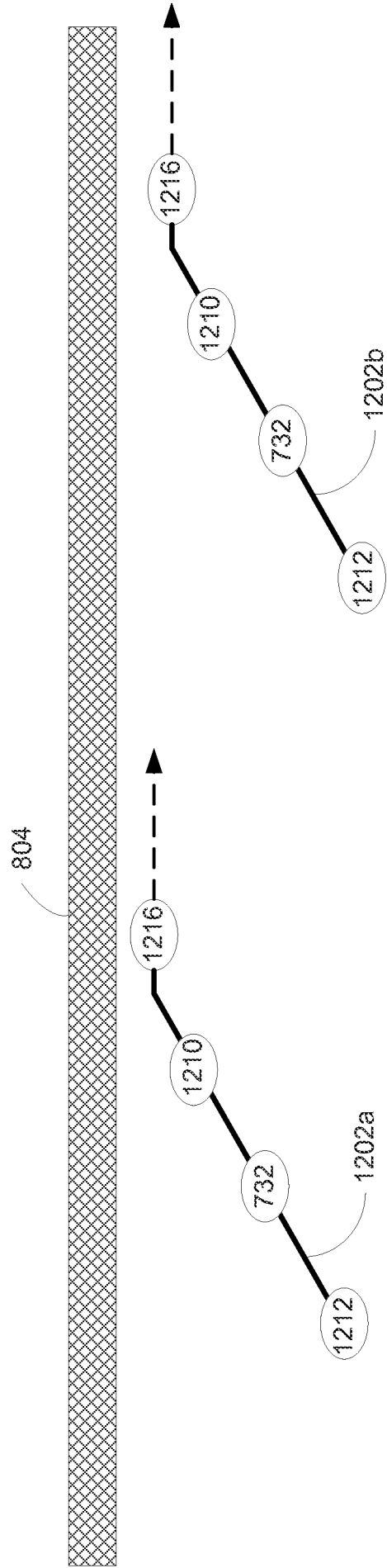


Figure 12B

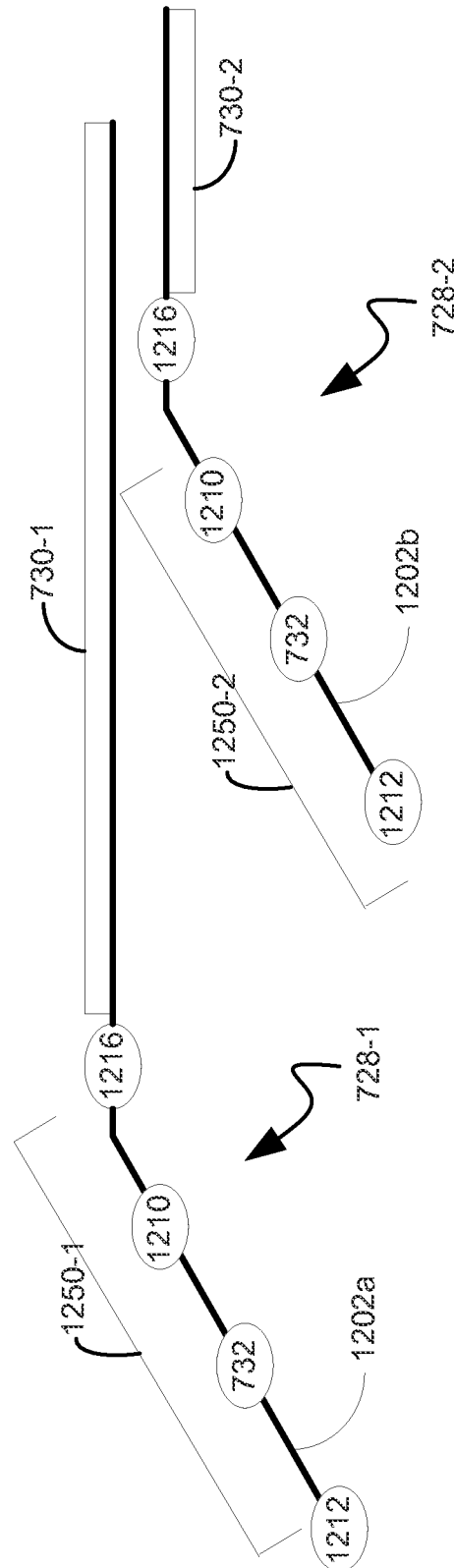


Figure 12C

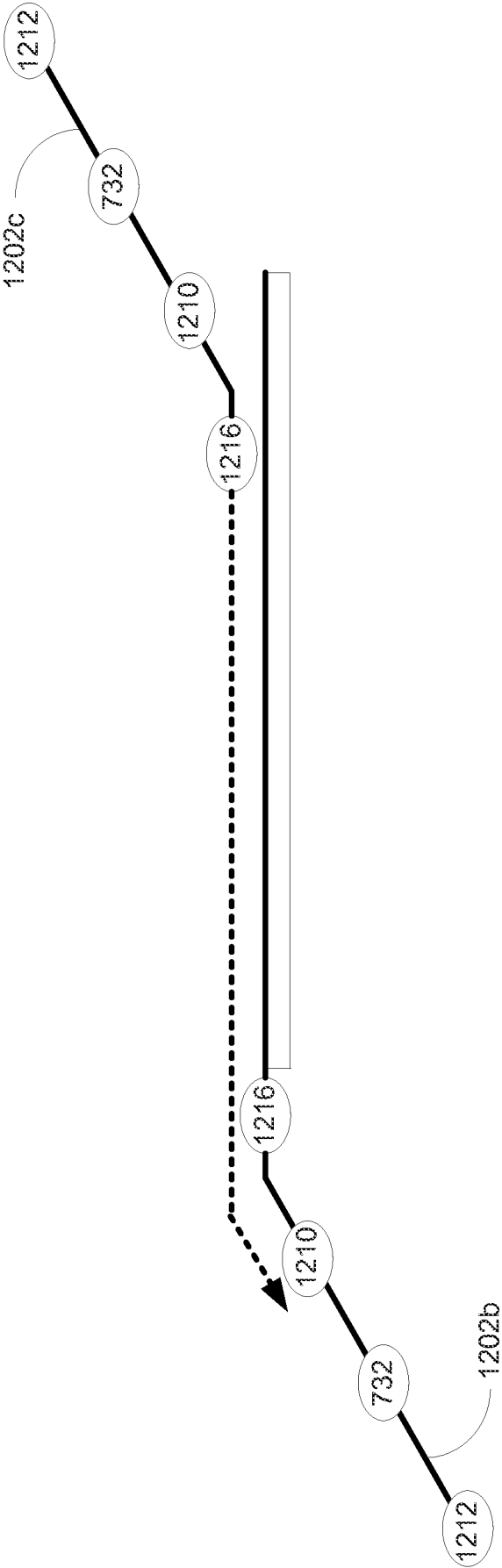


Figure 12D

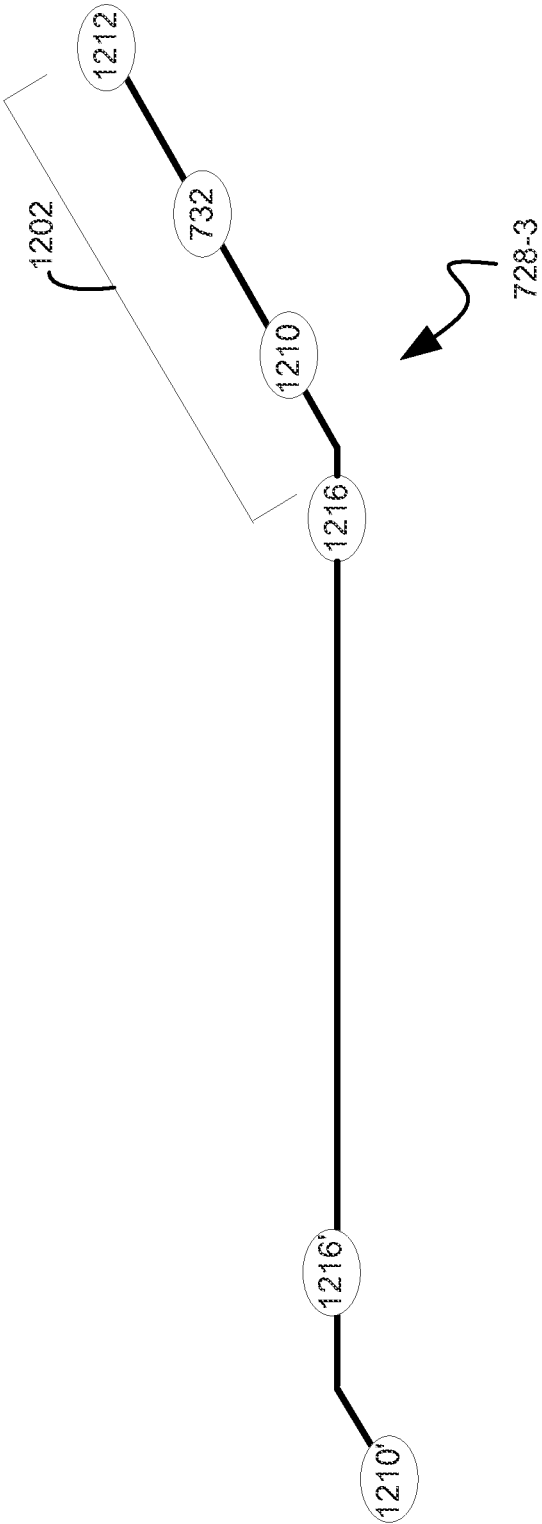
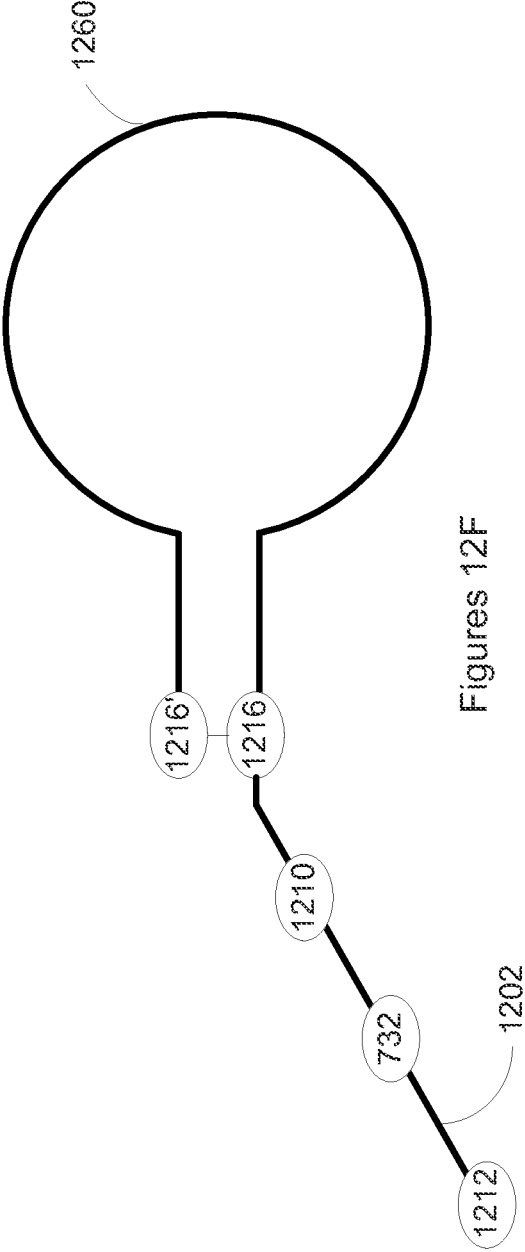


Figure 12E



Figures 12F

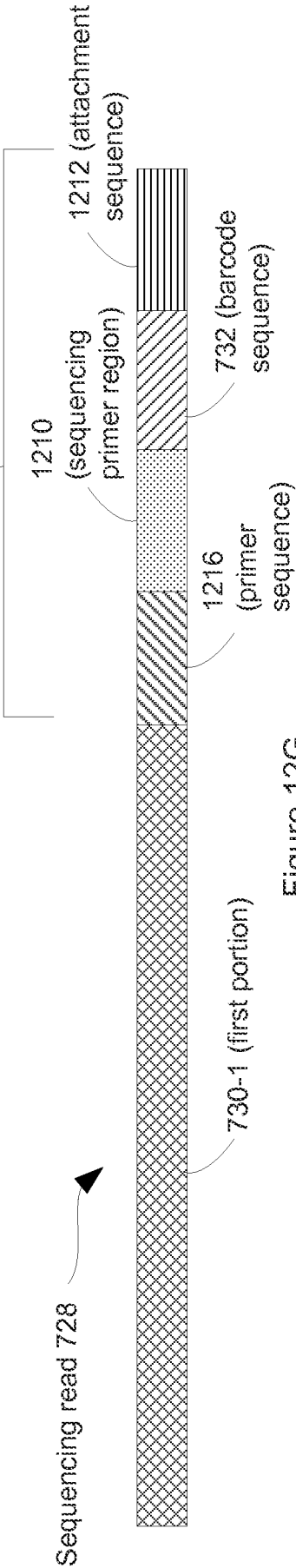


Figure 12G

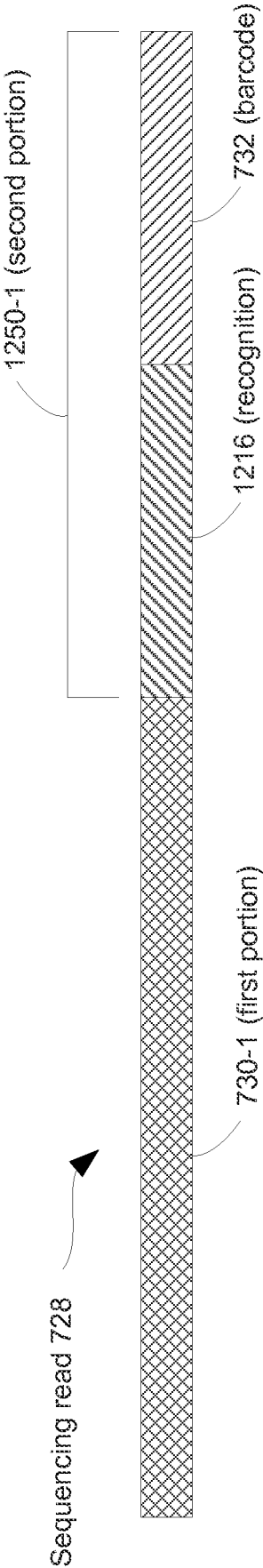


Figure 12H

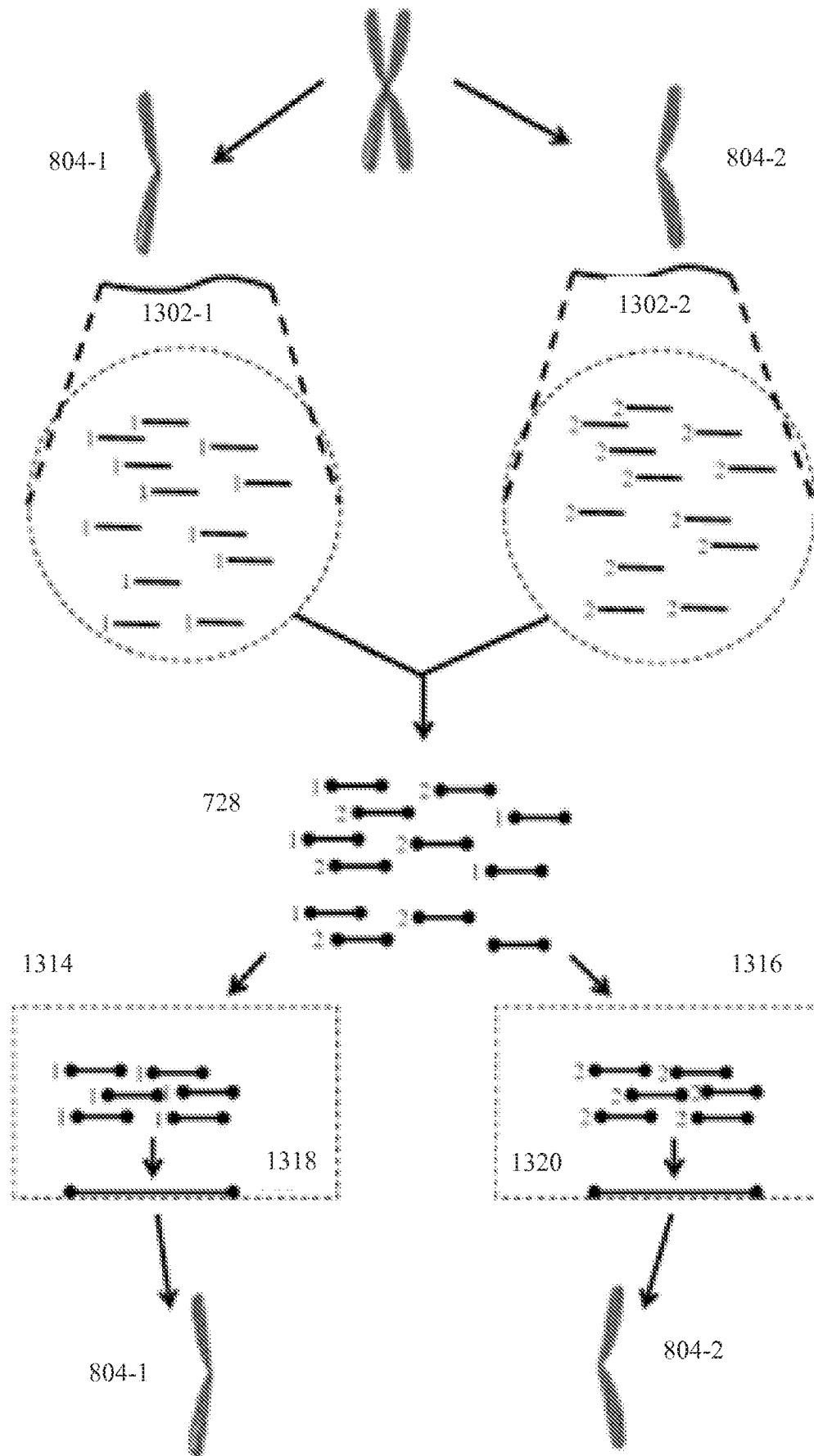


Figure 13

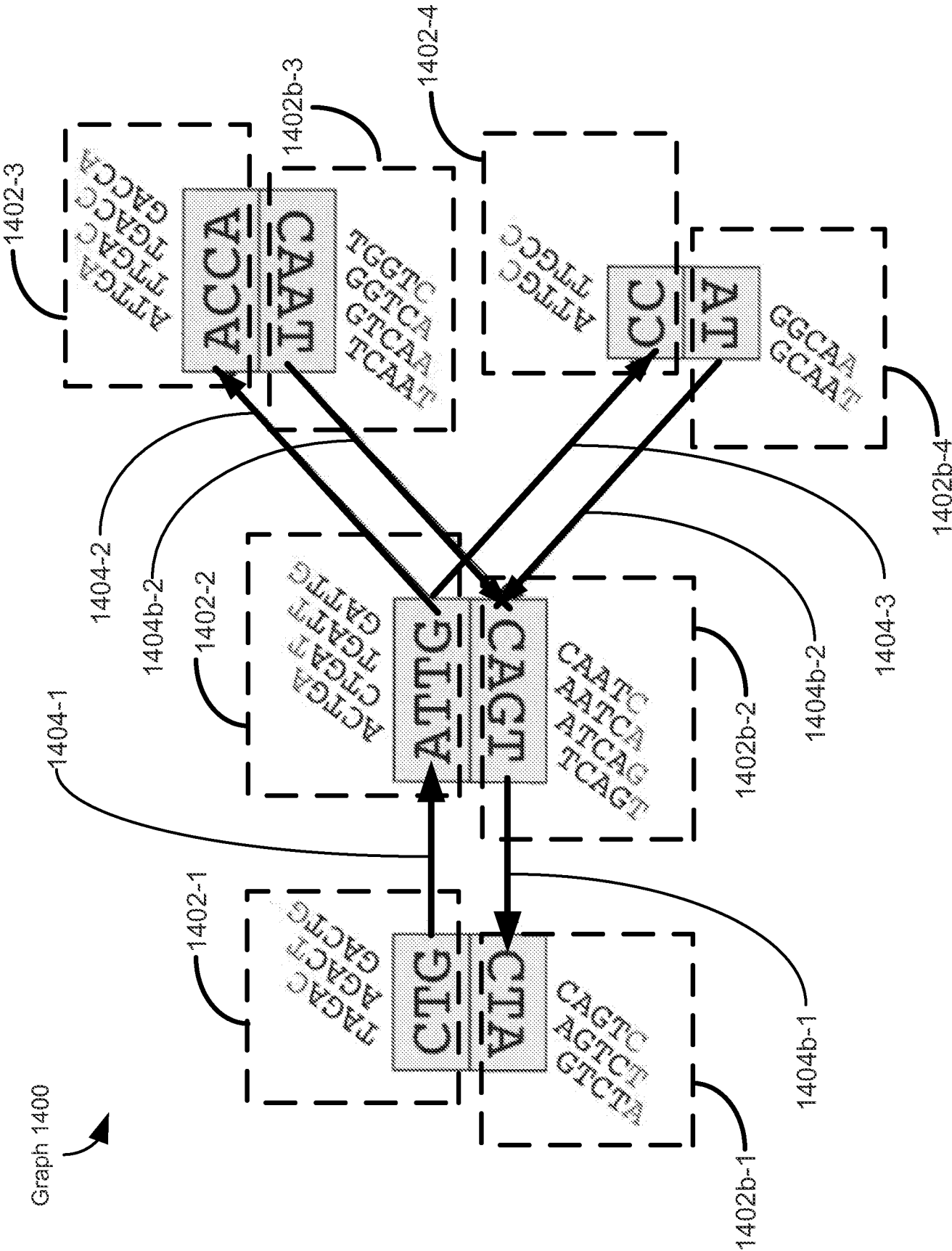


Figure 14

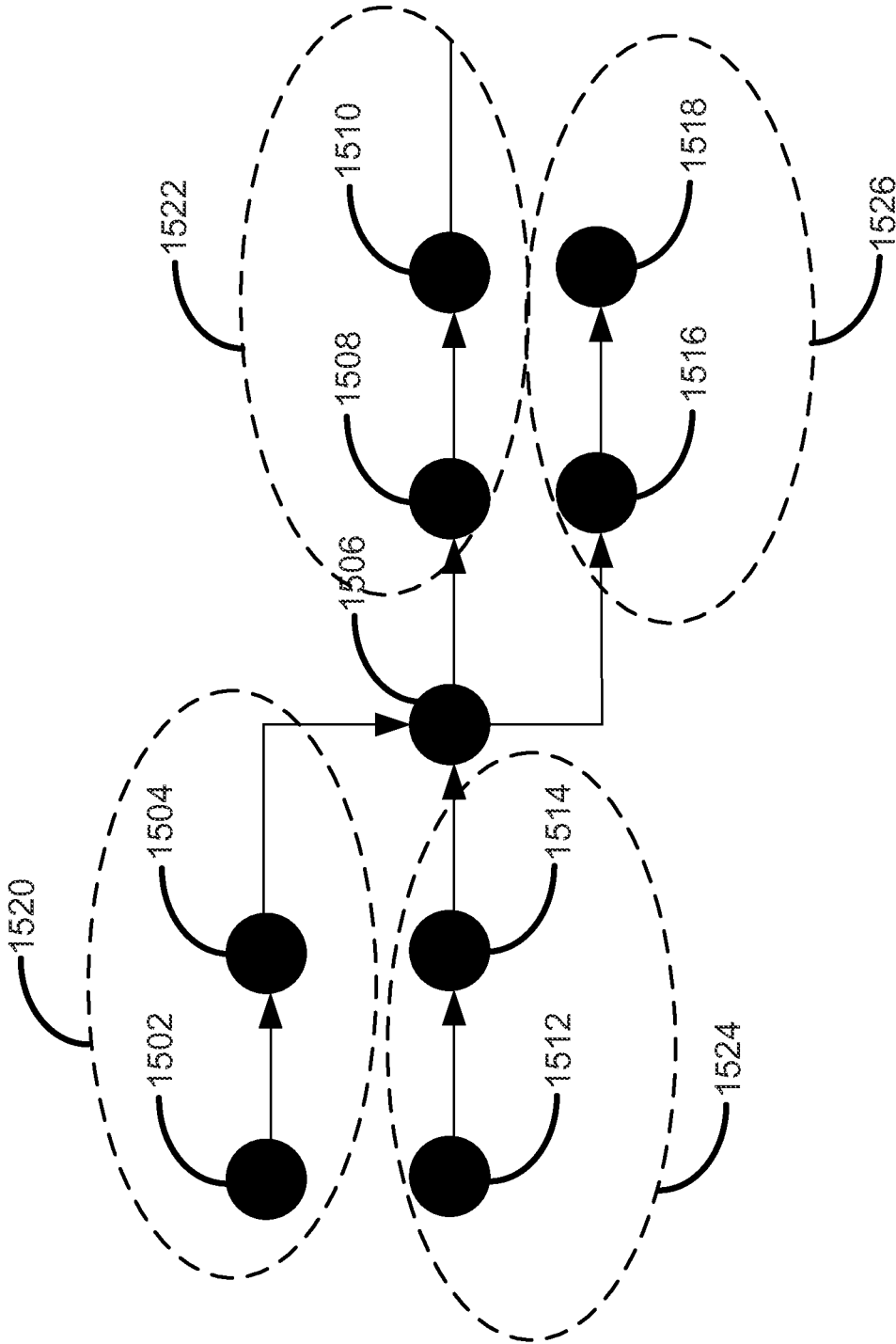


Figure 15