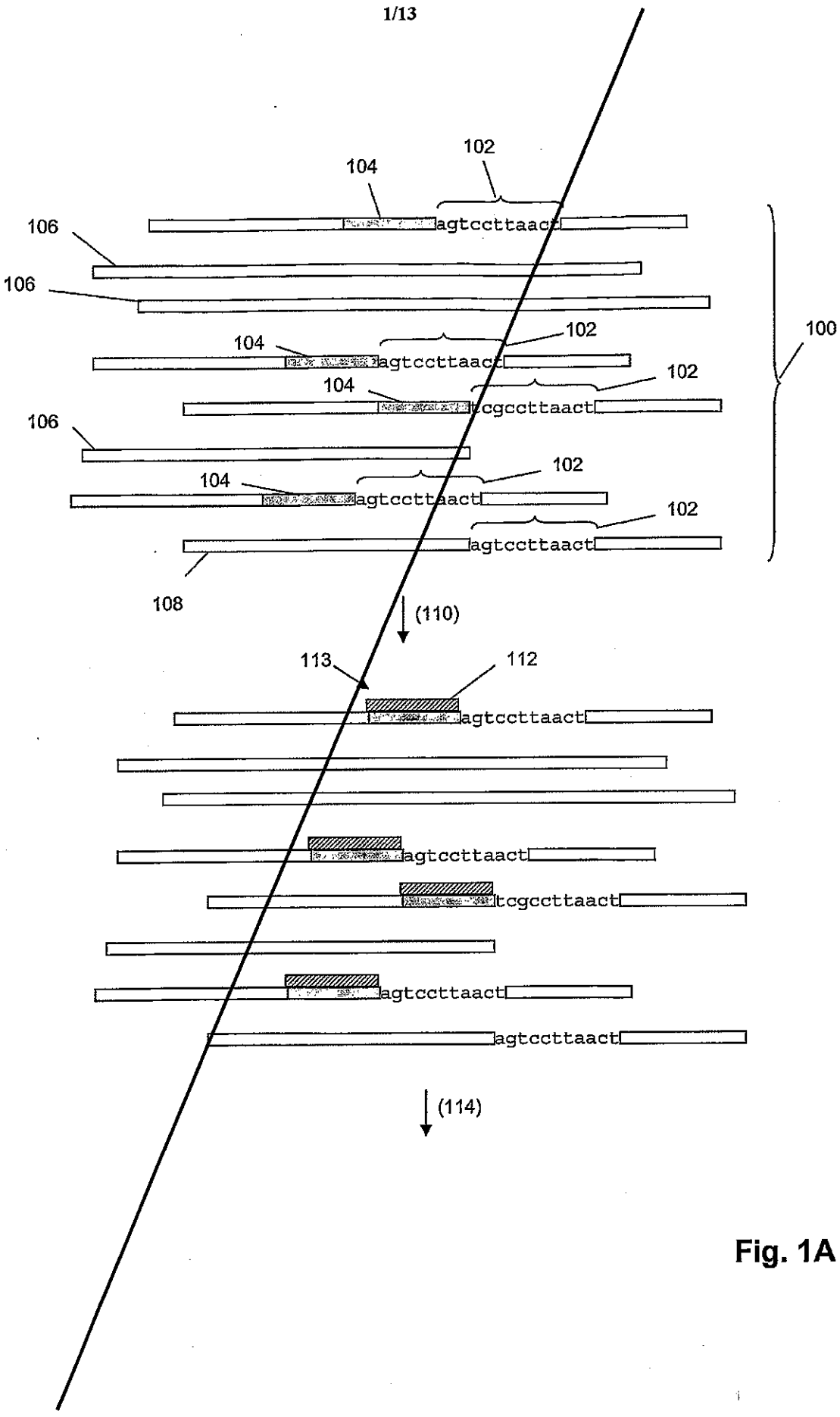

102
104
106
agtccttaact
106
100
104
102
agtccttaact
102
104
tcgccttaact
106
102
104
agtccttaact
102
agtccttaact
108
(110)
113
112
agtccttaact
agtccttaact
tcgccttaact
agtccttaact
agtccttaact
(114)

Fig. 1A

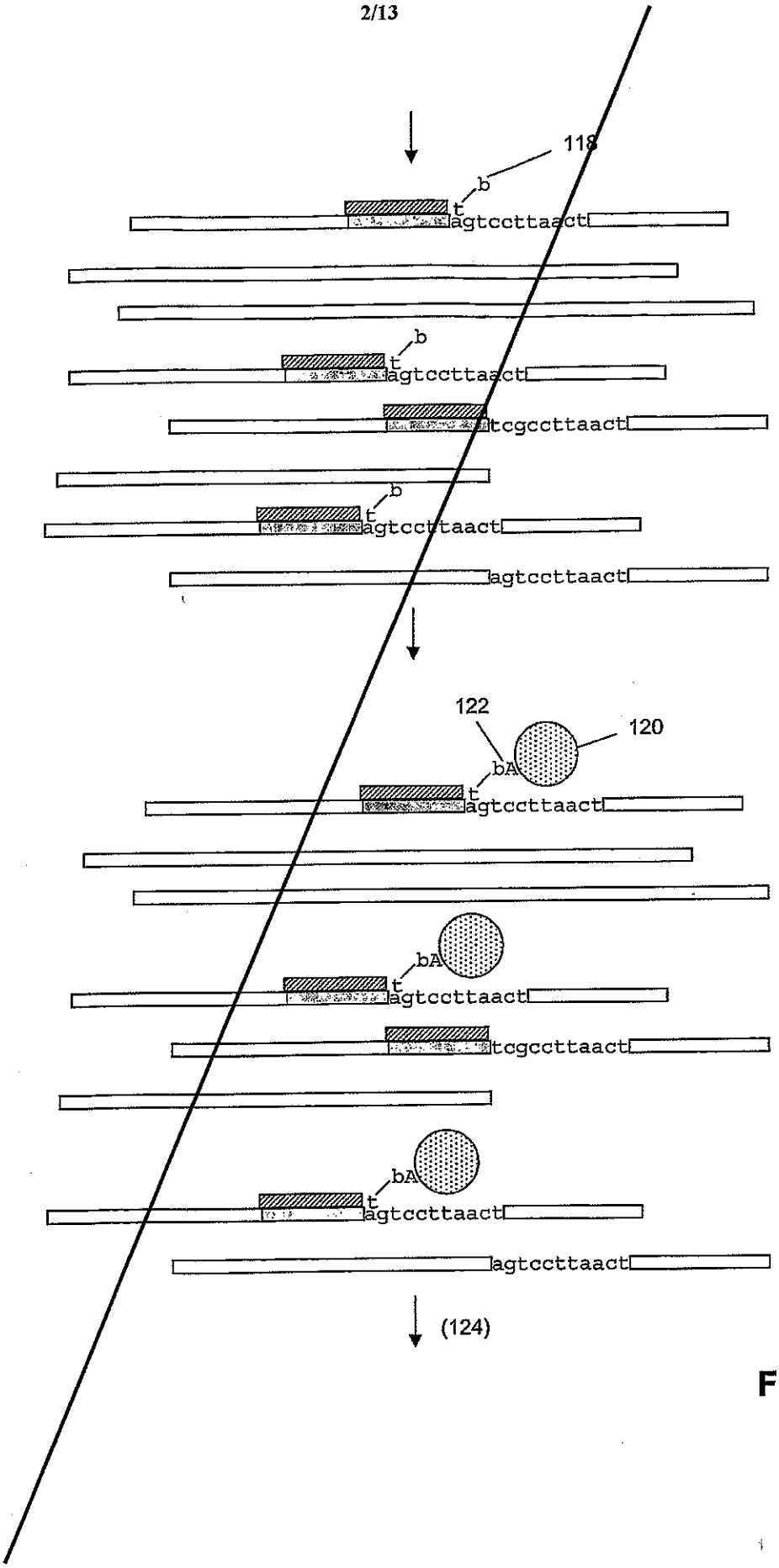

118
b
t
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b
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agtccttaact
tcgccttaact
b
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agtccttaact
122
120
bA
t
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agtccttaact
tcgccttaact
bA
t
agtccttaact
agtccttaact
(124)

Fig. 1B

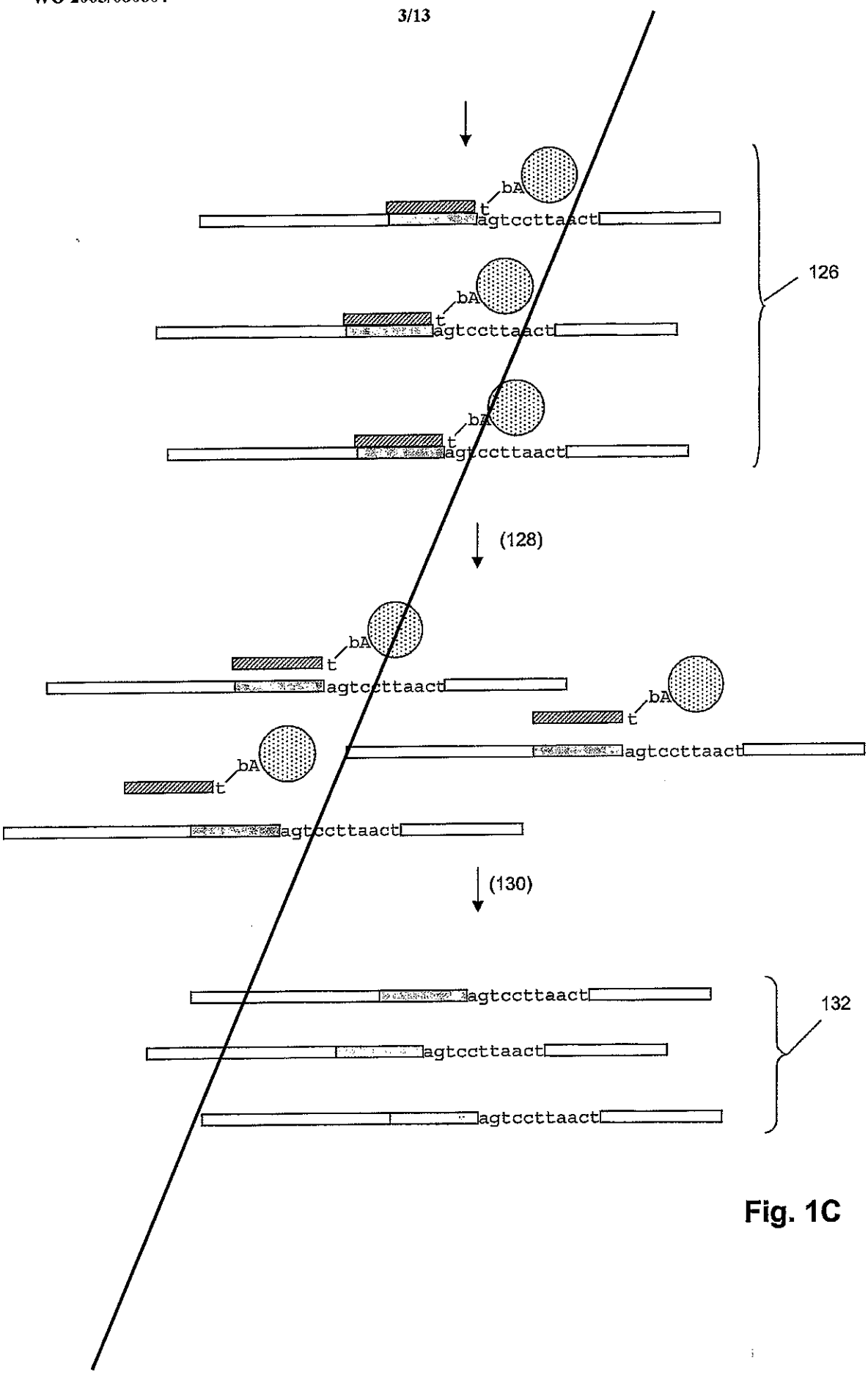


Fig. 1C

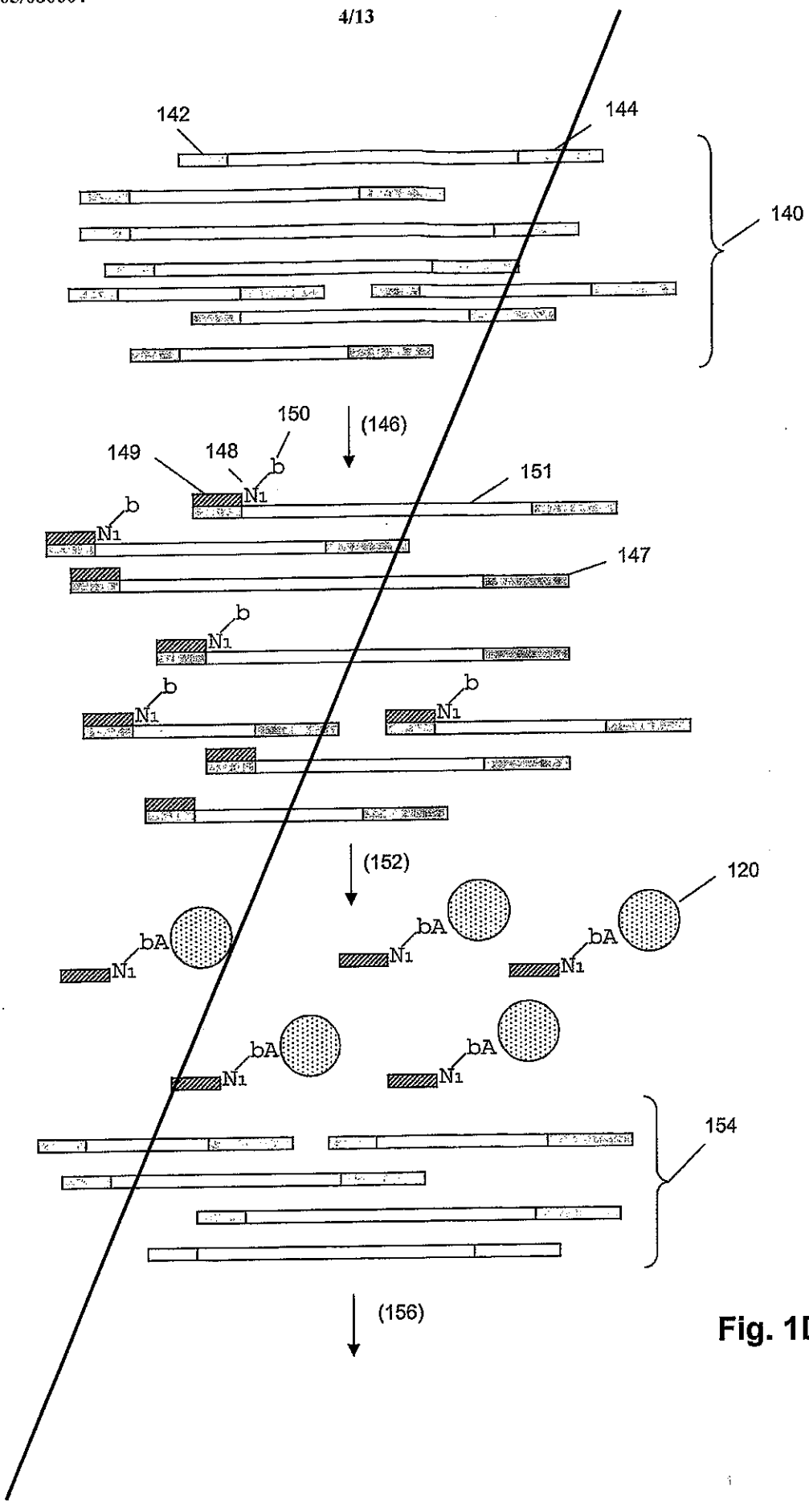


Fig. 1D

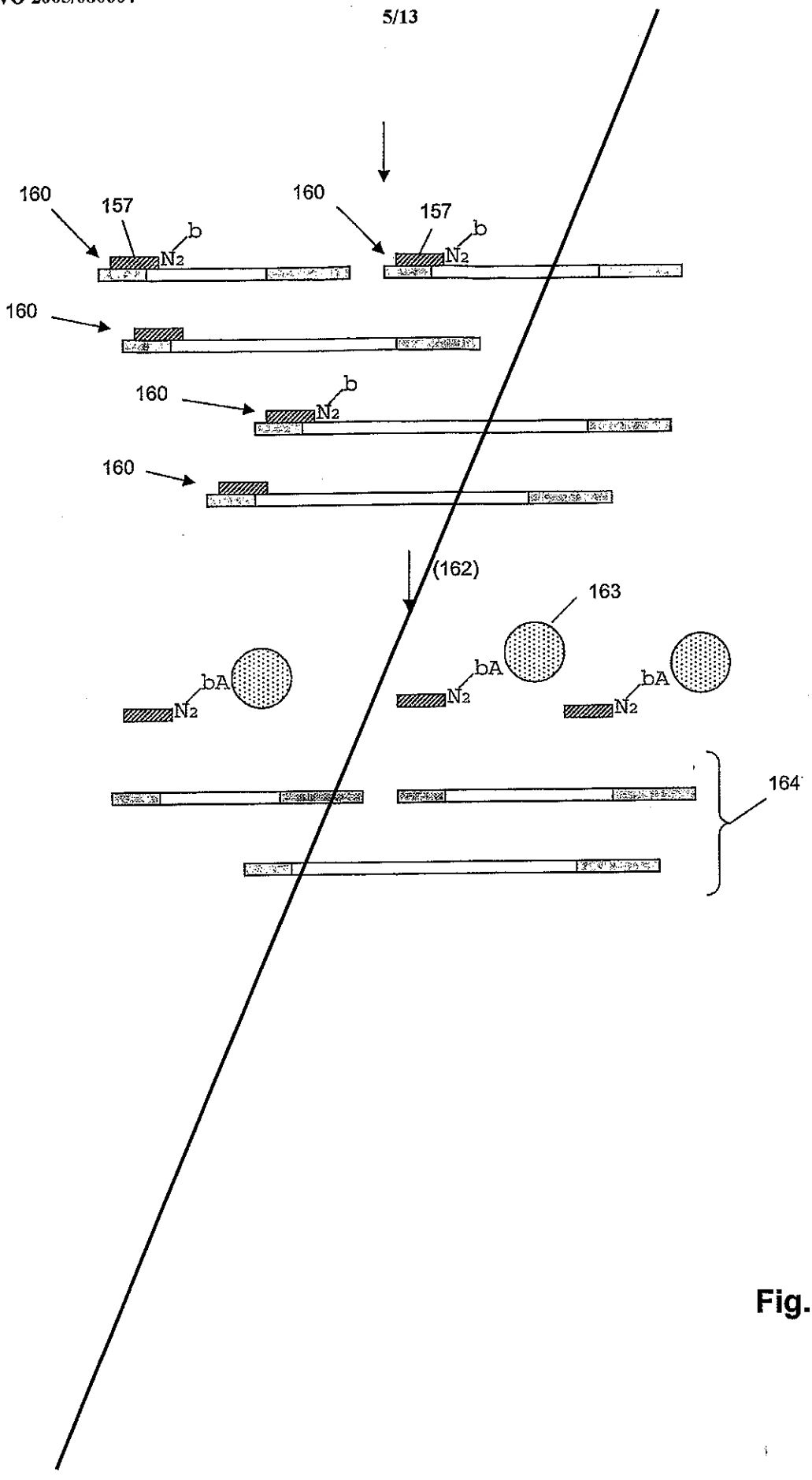

160
157
b
N2
160
157
b
N2
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160
b
N2
160
(162)
163
bA
N2
bA
N2
bA
N2
164

Fig. 1E

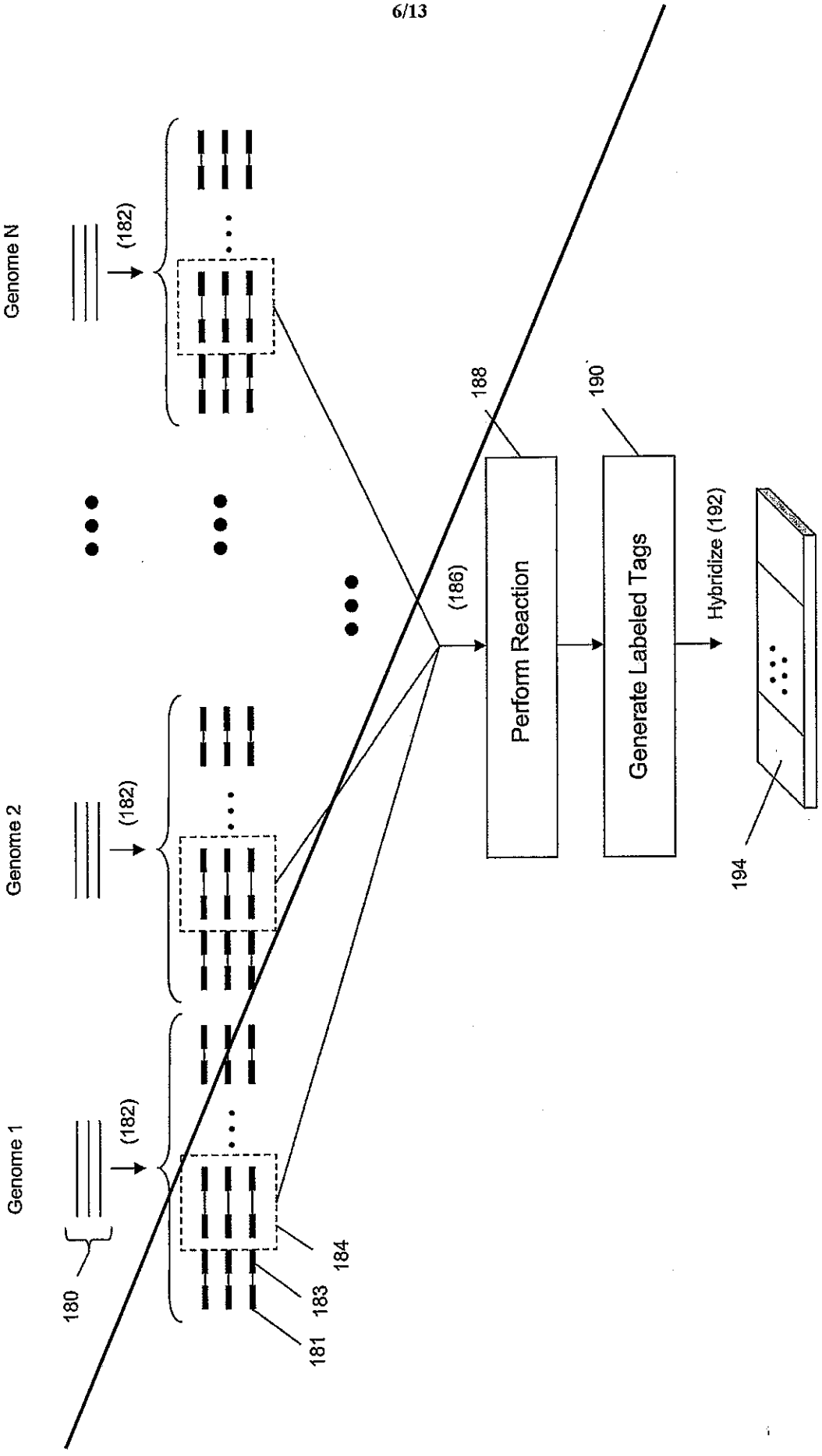

Genome N
Genome 2
Genome 1
(182)
(182)
(182)
180
181
183
184
(186)
188
Perform Reaction
190
Generate Labeled Tags
Hybridize (192)
194

Fig. 1F

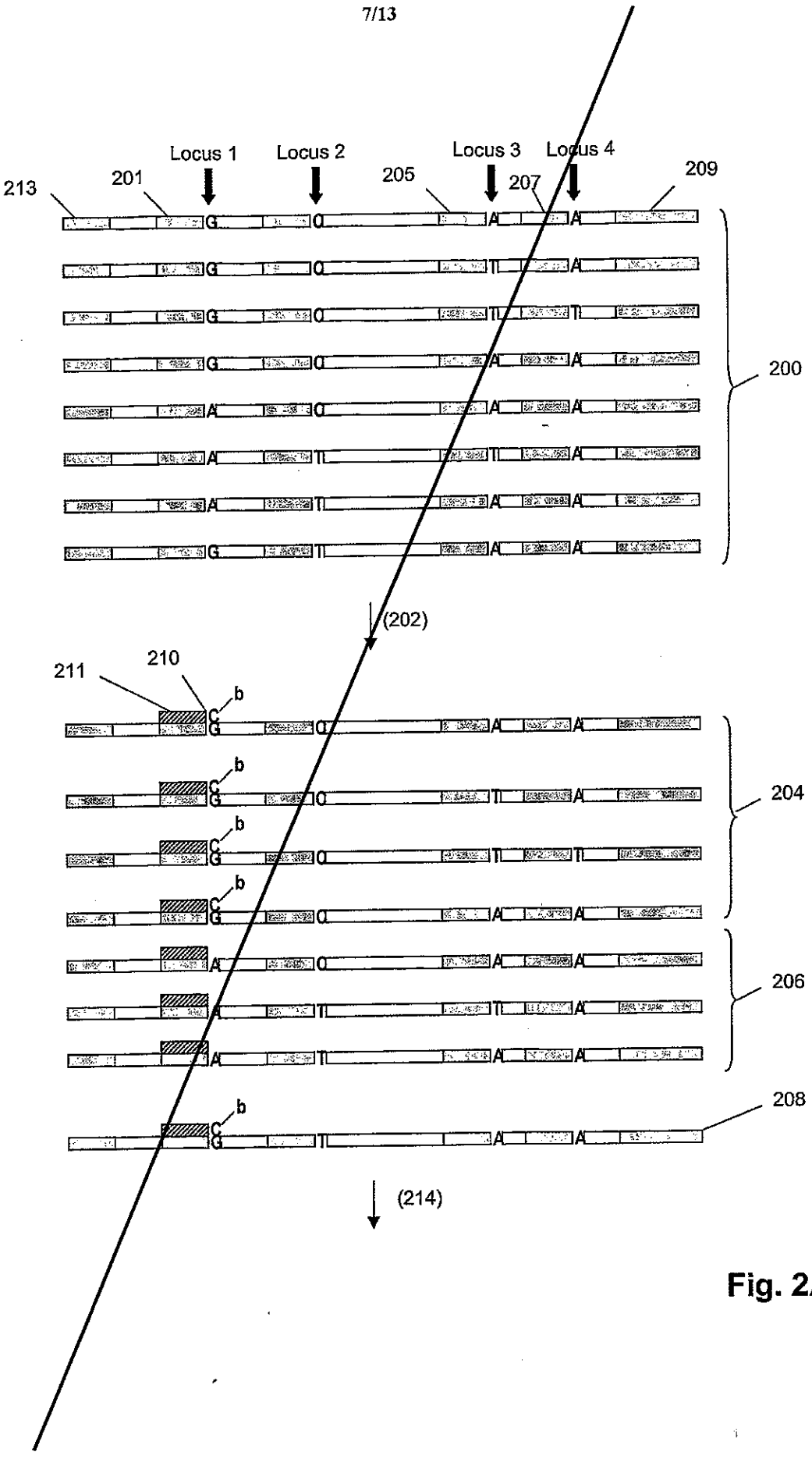

Locus 1
Locus 2
Locus 3
Locus 4
213
201
205
207
209
200
(202)
211
210
b
204
206
208
(214)

Fig. 2A

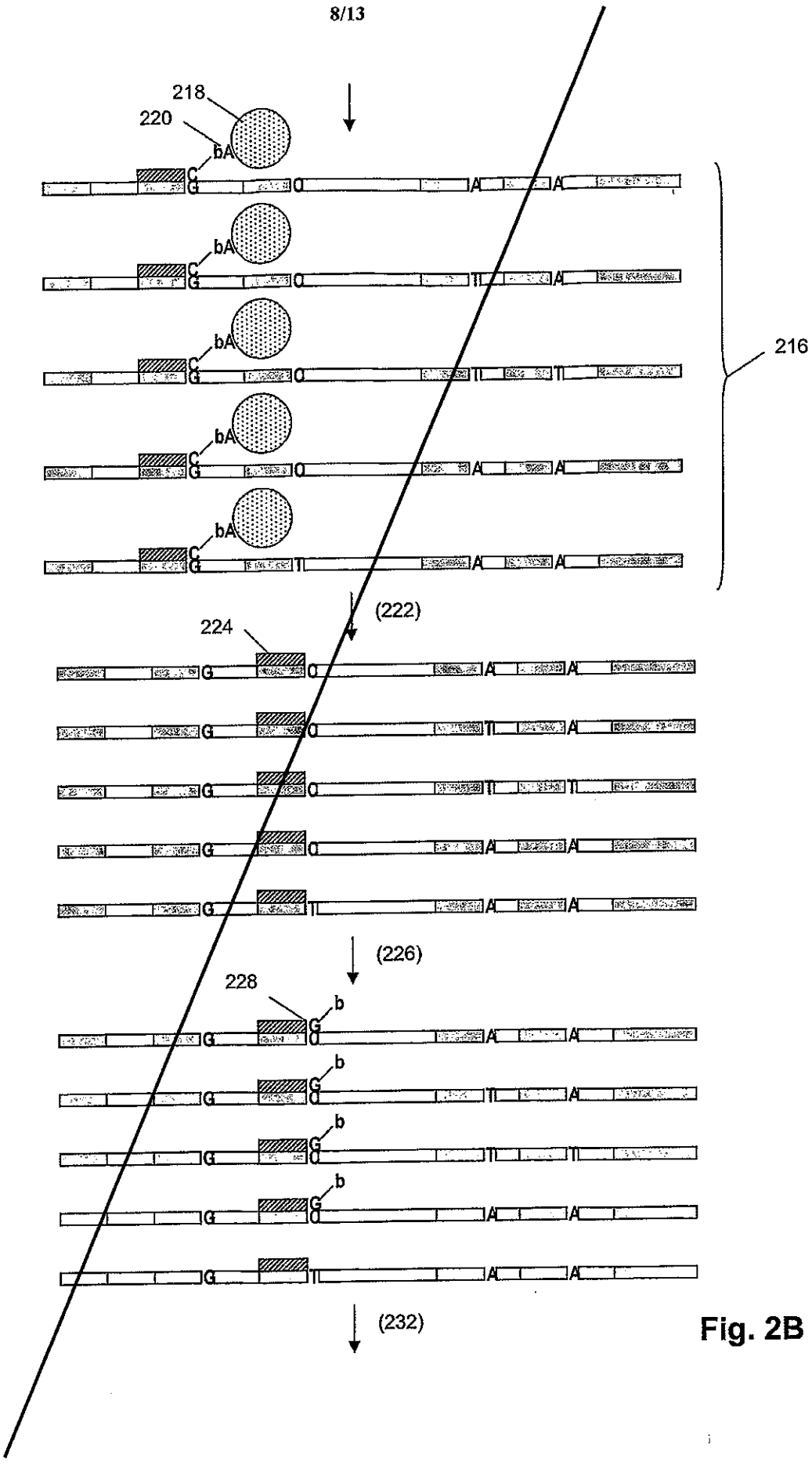


Fig. 2B

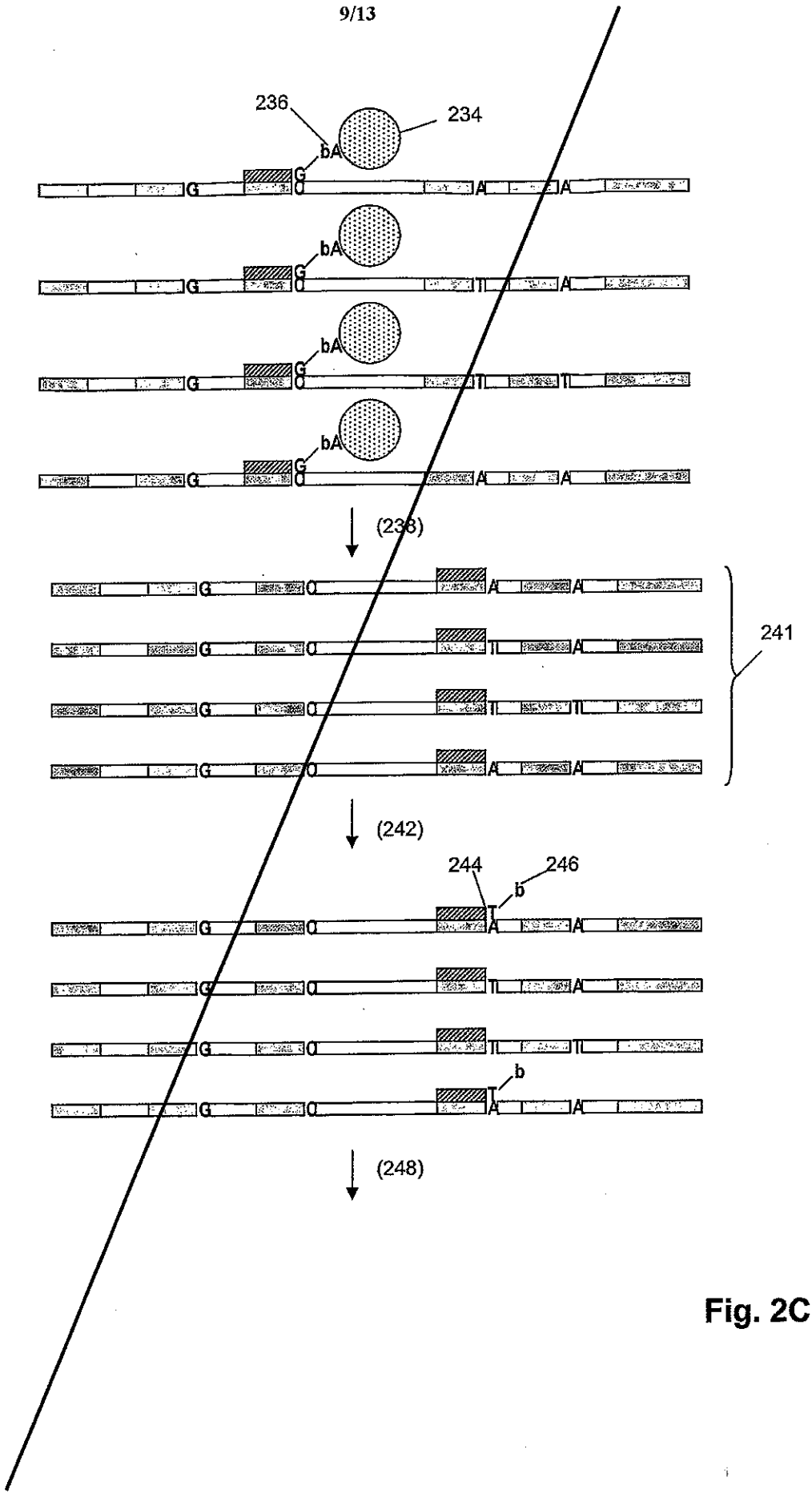


Fig. 2C

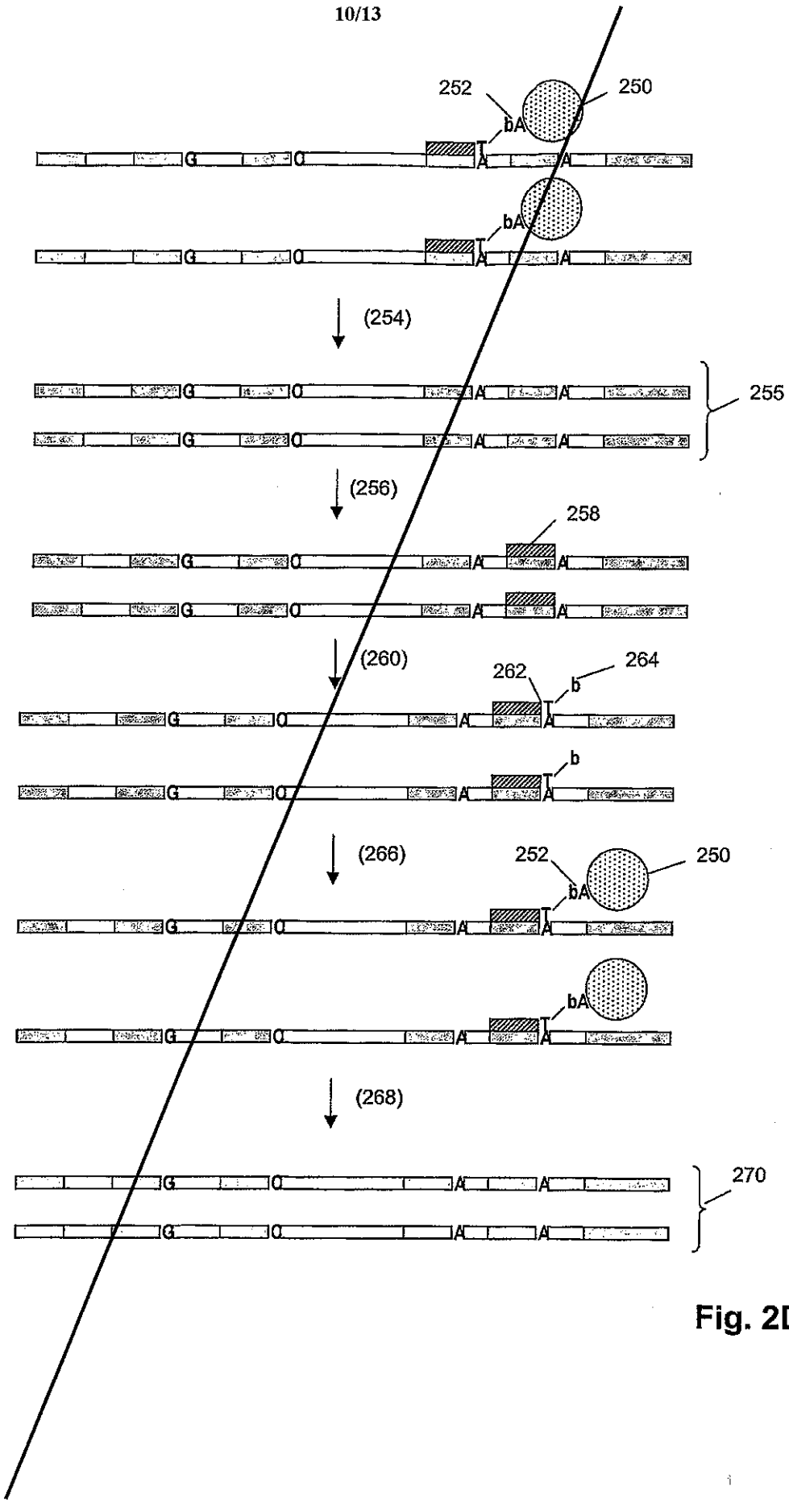
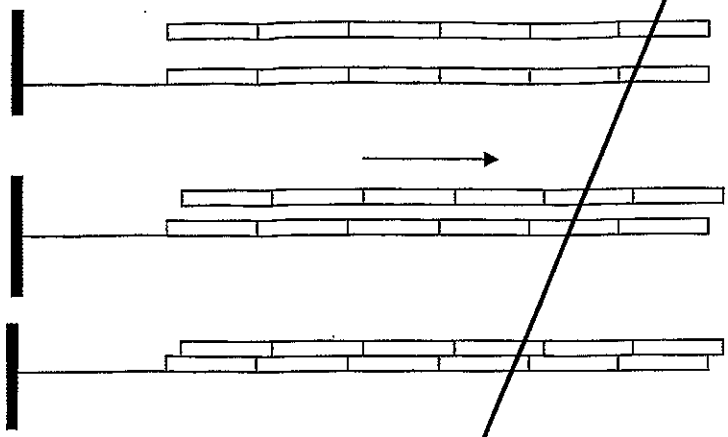
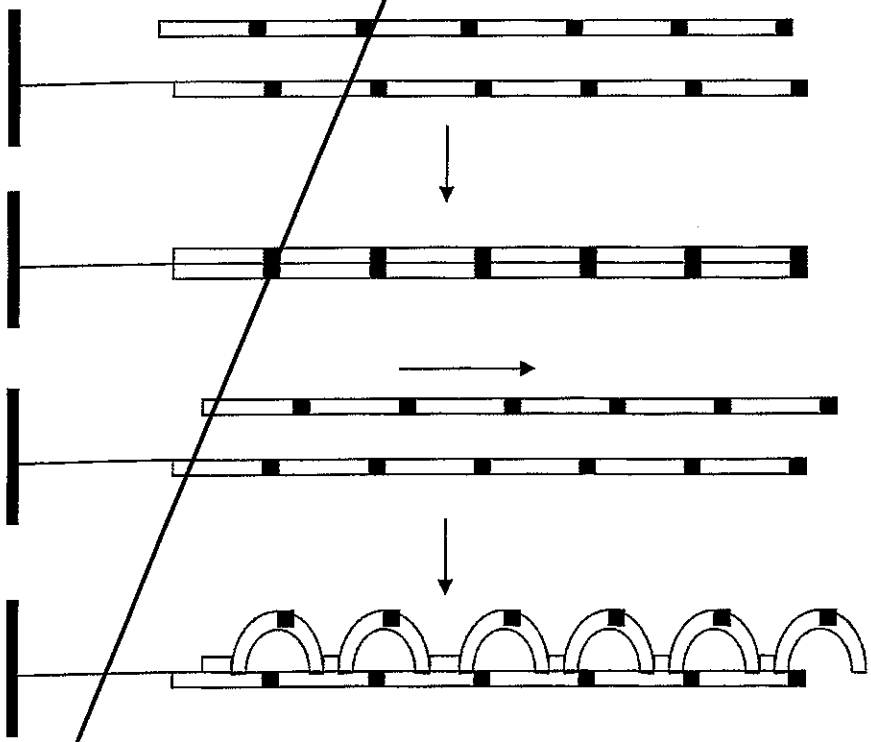


Fig. 2D



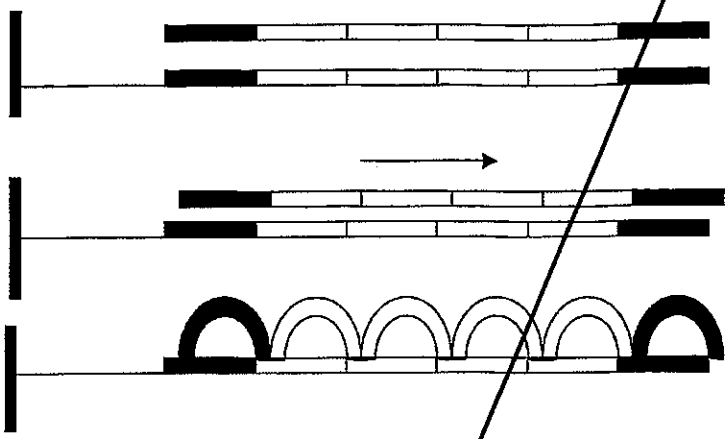
Combinatorial Tag With No "Commas"

Fig. 3A



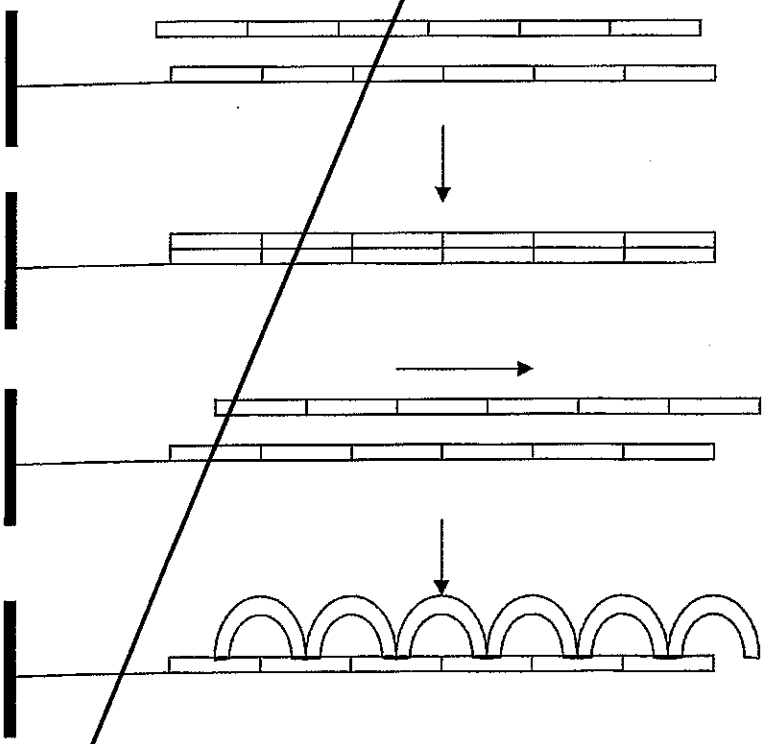
Combinatorial Tag With "Commas" Between Words

Fig. 3B



Combinatorial Tag With "Commas" at Each End

Fig. 3C



Combinatorial Tag With "Commas-less" Property

Fig. 3D

					Melting Temperatue		
					Basic	Salt Adjusted	Nearest Neighbor
gtcta	tgtca	cttgt	tcitt	acaga	53	61	52
tgtca	tgtca	cttgt	tcitt	acaga	53	61	54
acaga	tgtca	cttgt	tcitt	acaga	53	61	54
cagaa	tgtca	cttgt	tcitt	acaga	53	61	53
aicat	tgtca	cttgt	tcitt	acaga	51	59	52
gaact	tgtca	cttgt	tcitt	acaga	53	61	53
cttgt	tgtca	cttgt	tcitt	acaga	53	61	53
tcitt	tgtca	cttgt	tcitt	acaga	51	59	52
gtcta	gtcta	cttgt	tcitt	acaga	53	61	52
gtcta	acaga	cttgt	tcitt	acaga	53	61	52
gtcta	cagaa	cttgt	tcitt	acaga	53	61	52
gtcta	aicat	cttgt	tcitt	acaga	51	59	51
gtcta	gaact	cttgt	tcitt	acaga	53	61	53
gtcta	cttgt	cttgt	tcitt	acaga	53	61	52
gtcta	tcitt	cttgt	tcitt	acaga	51	59	51
gtcta	tgtca	gtcta	tcitt	acaga	53	61	52
gtcta	tgtca	tgtca	tcitt	acaga	53	61	52
gtcta	tgtca	acaga	tcitt	acaga	53	61	52
gtcta	tgtca	cagaa	tcitt	acaga	53	61	52
gtcta	tgtca	aicat	tcitt	acaga	51	59	51
gtcta	tgtca	gaact	tcitt	acaga	53	61	53
gtcta	tgtca	tcitt	tcitt	acaga	51	59	51
gtcta	tgtca	cttgt	gtcta	acaga	54	63	54
gtcta	tgtca	cttgt	tgtca	acaga	54	63	54
gtcta	tgtca	cttgt	acaga	acaga	54	63	54
gtcta	tgtca	cttgt	cagaa	acaga	54	63	54
gtcta	tgtca	cttgt	aicat	acaga	53	61	52
gtcta	tgtca	cttgt	gaact	acaga	54	63	54
gtcta	tgtca	cttgt	cttgt	acaga	54	63	54
			Mean		53	61	53
			Std Dev		1	1	1

Fig. 4

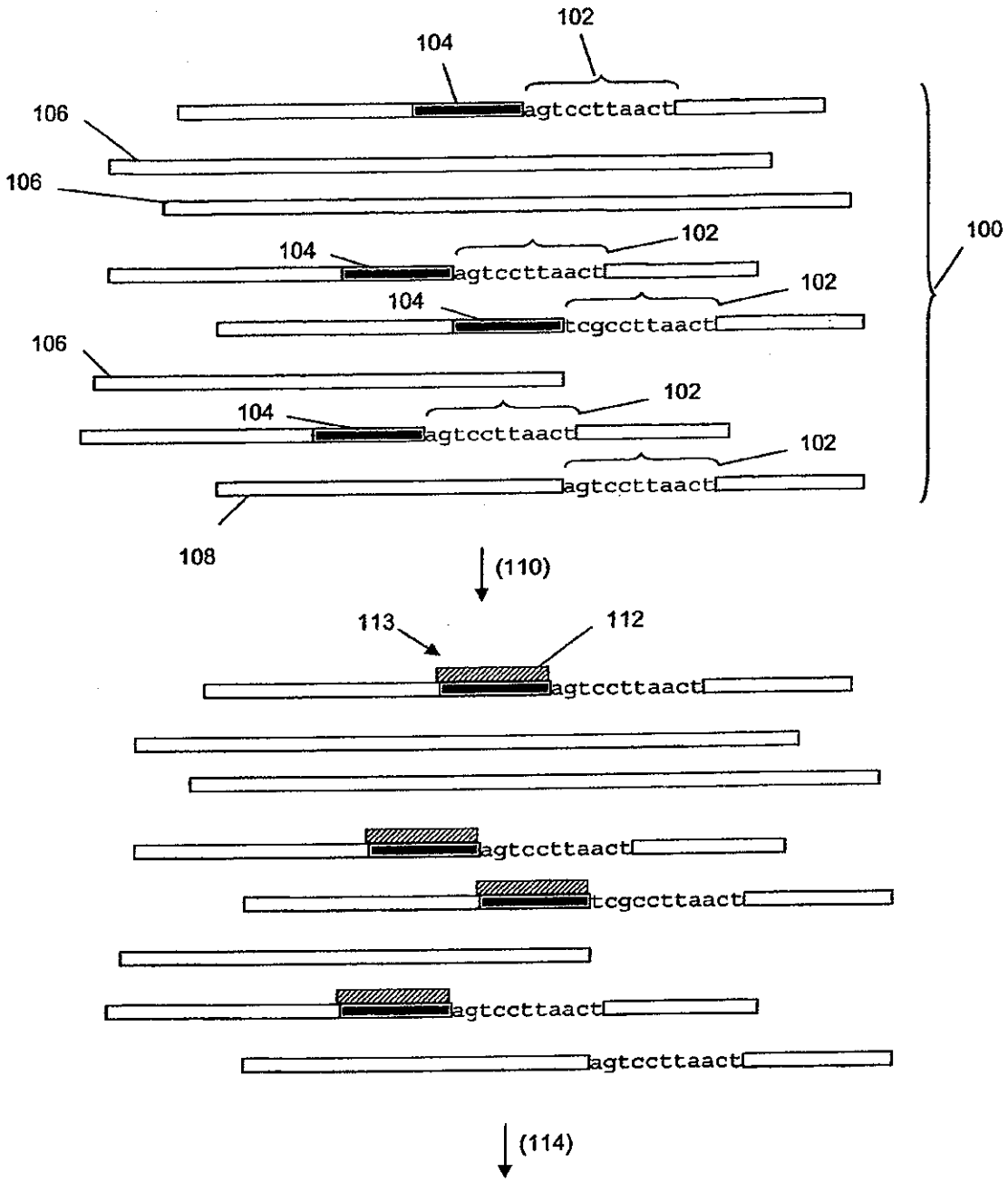

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102
agtccttaact
108
(110)
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112
agtccttaact
agtccttaact
tcgccttaact
agtccttaact
agtccttaact
(114)

Fig. 1A

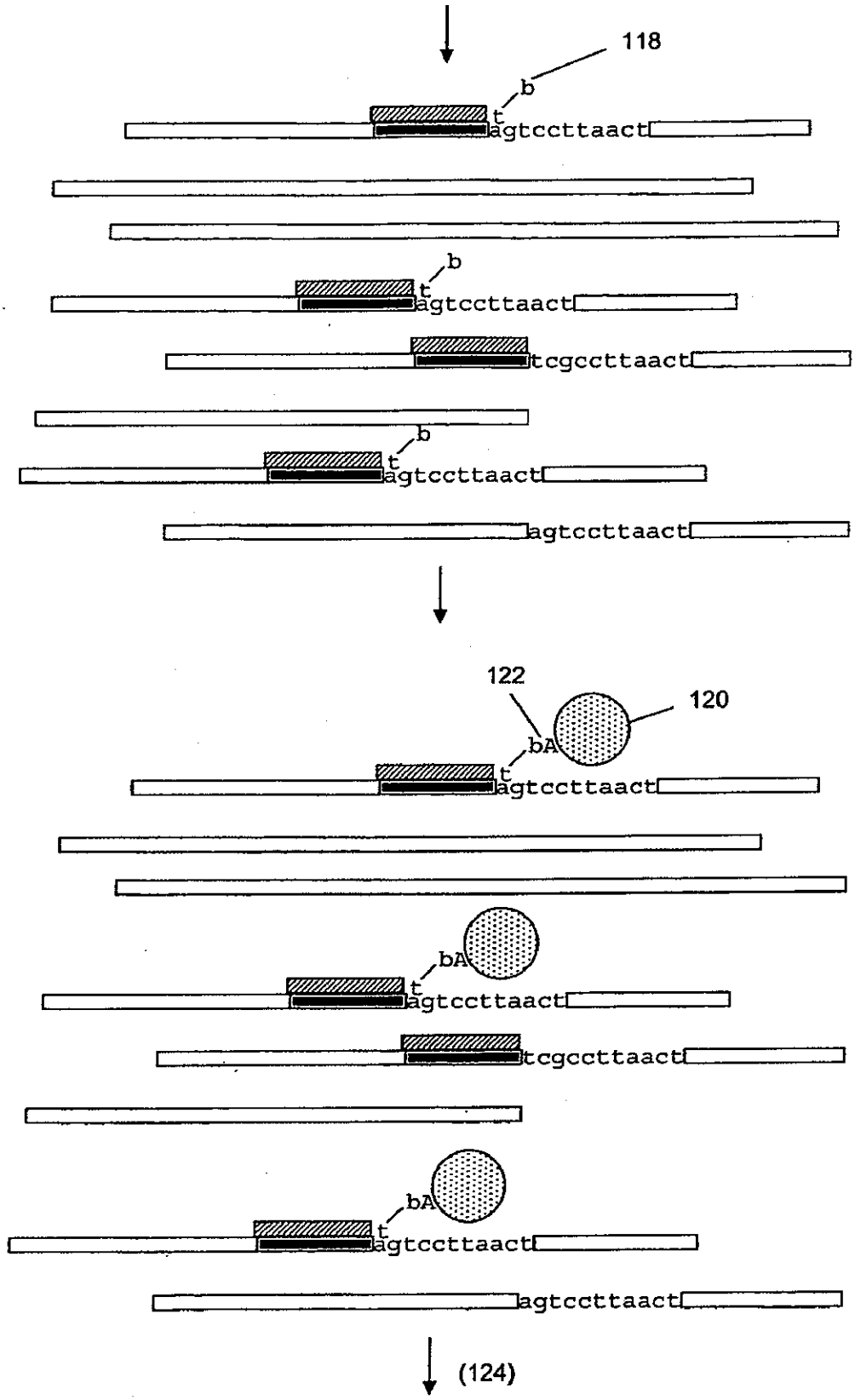

118
b
t
agtccttaact
b
t
agtccttaact
tcgccttaact
b
t
agtccttaact
agtccttaact
122
120
bA
t
agtccttaact
bA
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agtccttaact
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bA
t
agtccttaact
agtccttaact
(124)

Fig. 1B

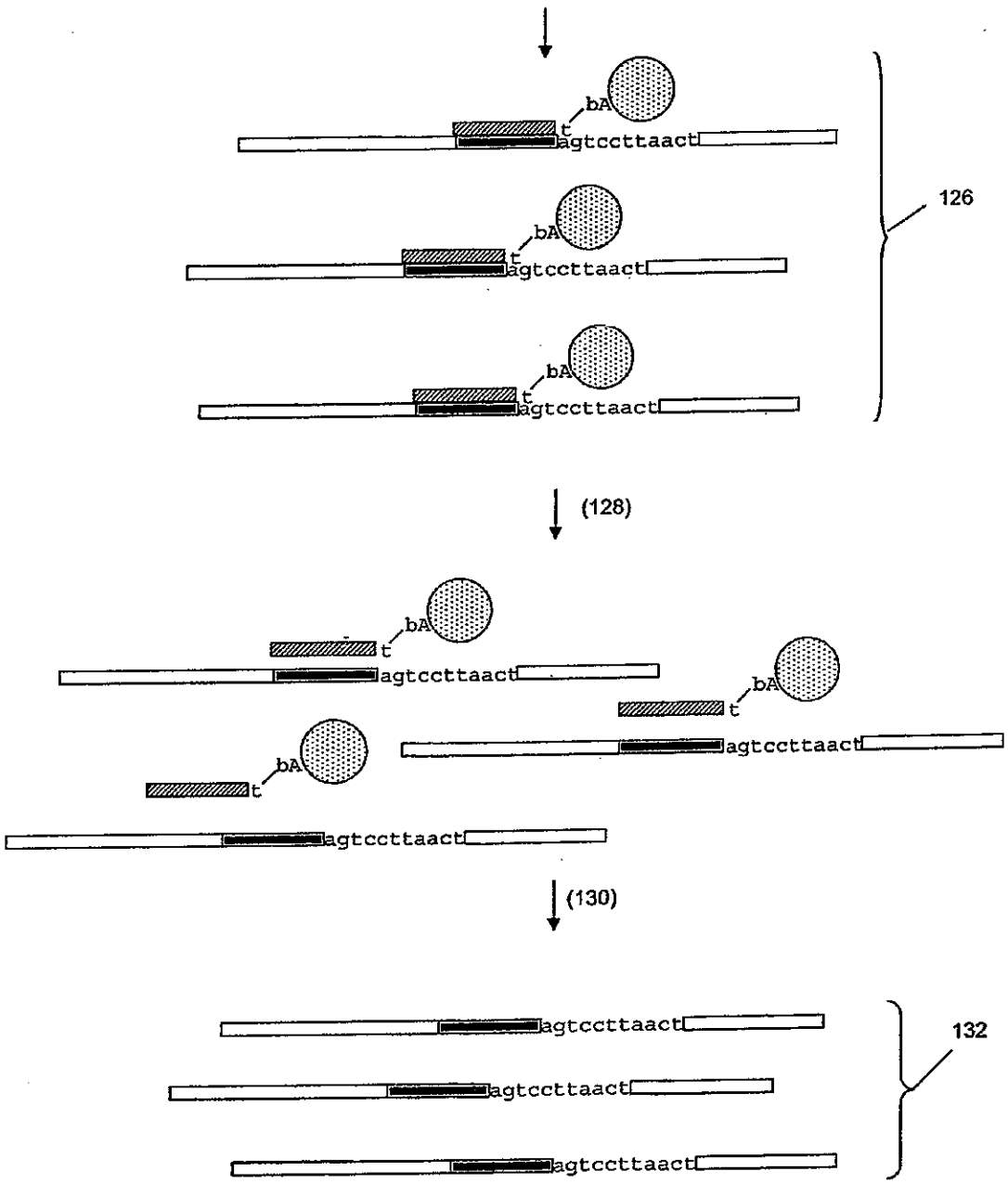


Fig. 1C

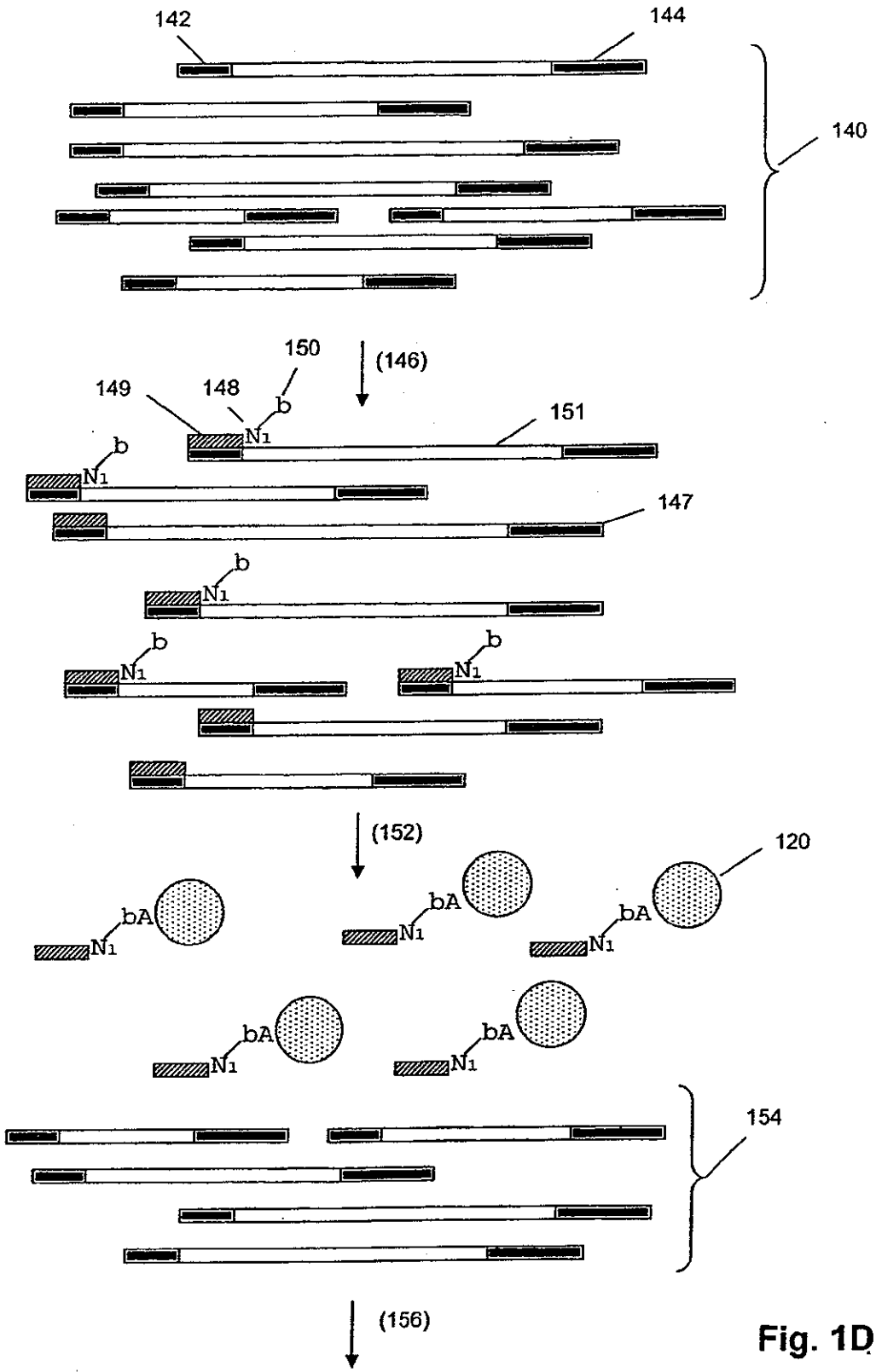


Fig. 1D

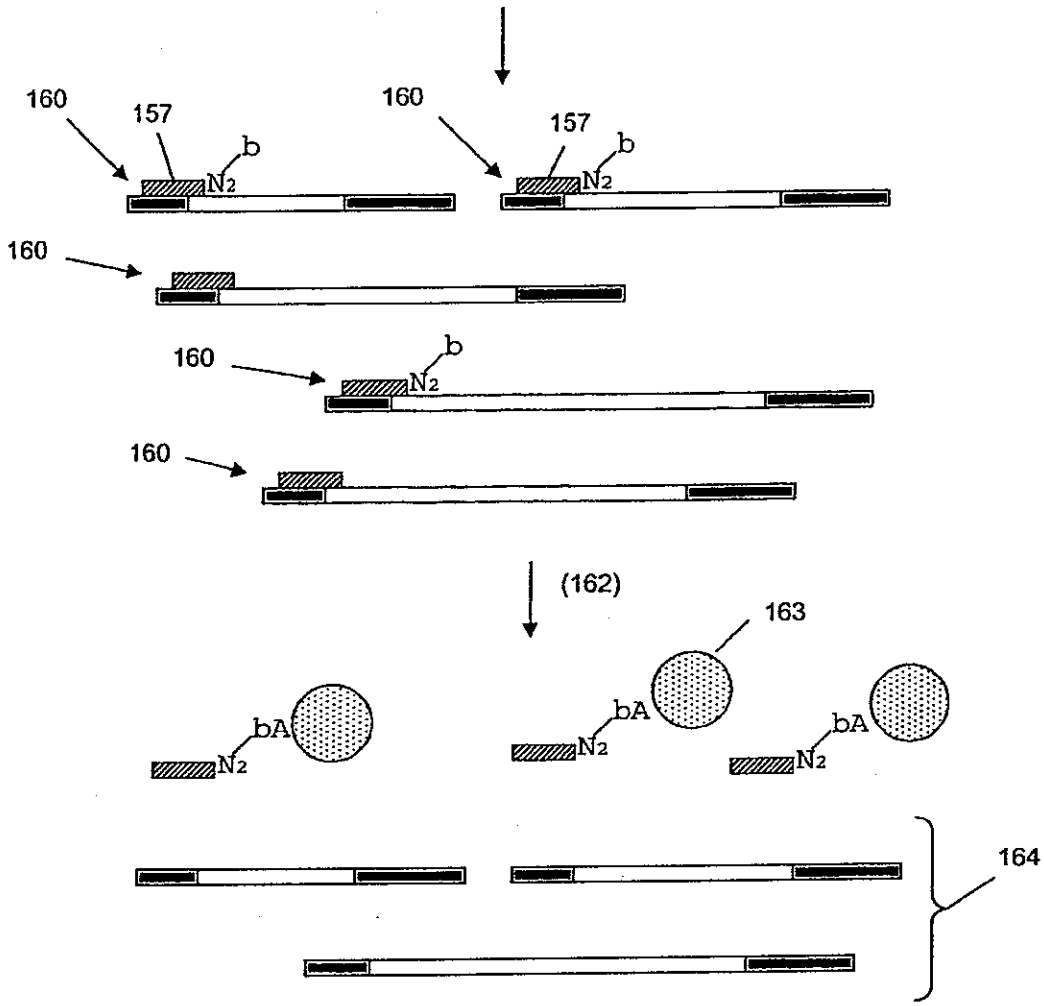

160
157
b
N2
160
157
b
N2
160
160
b
N2
160
(162)
163
bA
N2
bA
N2
bA
N2
164

Fig. 1E

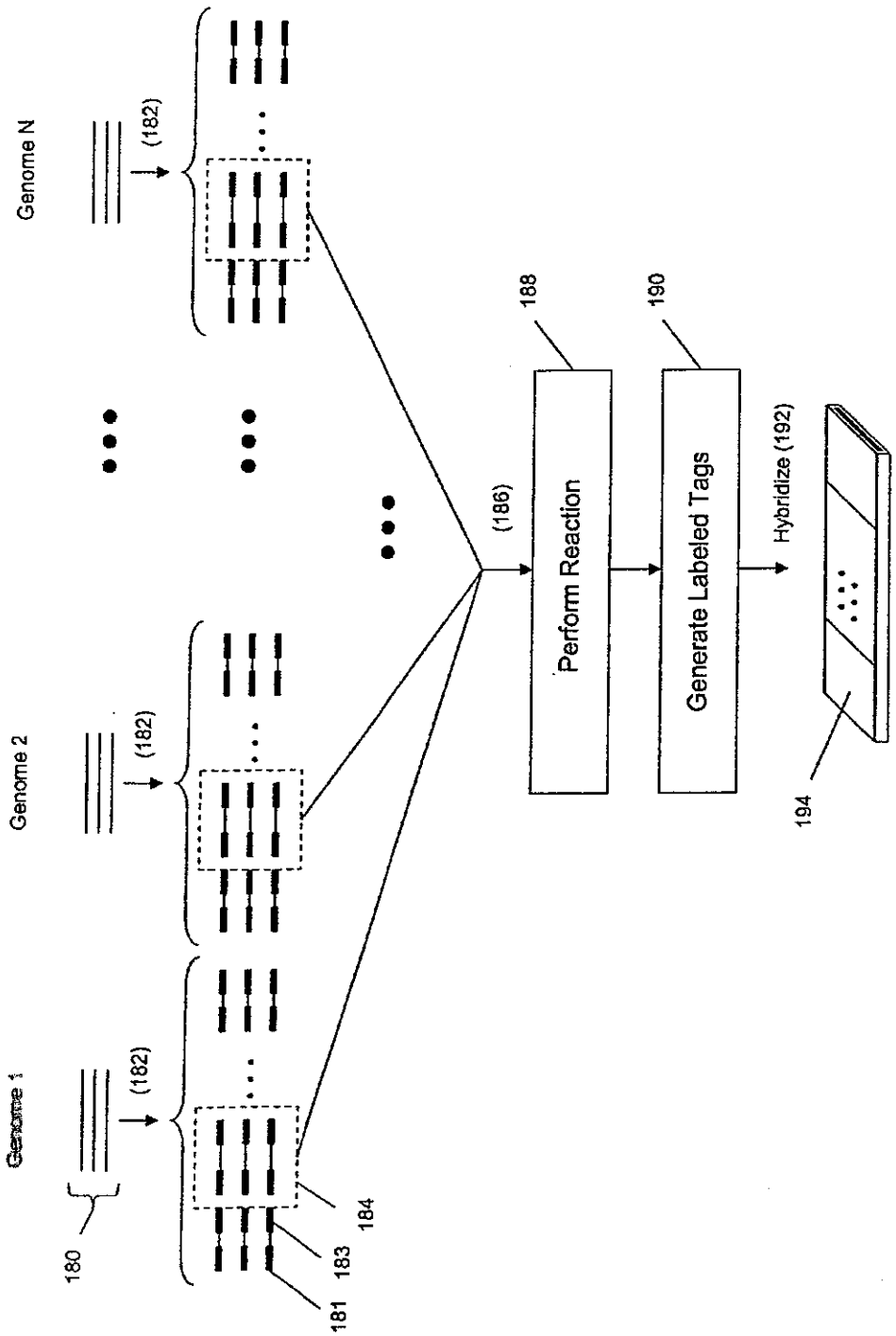

Genome 1
Genome 2
Genome N
(182)
180
181
183
184
(186)
188
Perform Reaction
190
Generate Labeled Tags
Hybridize (192)
194

Fig. 1F

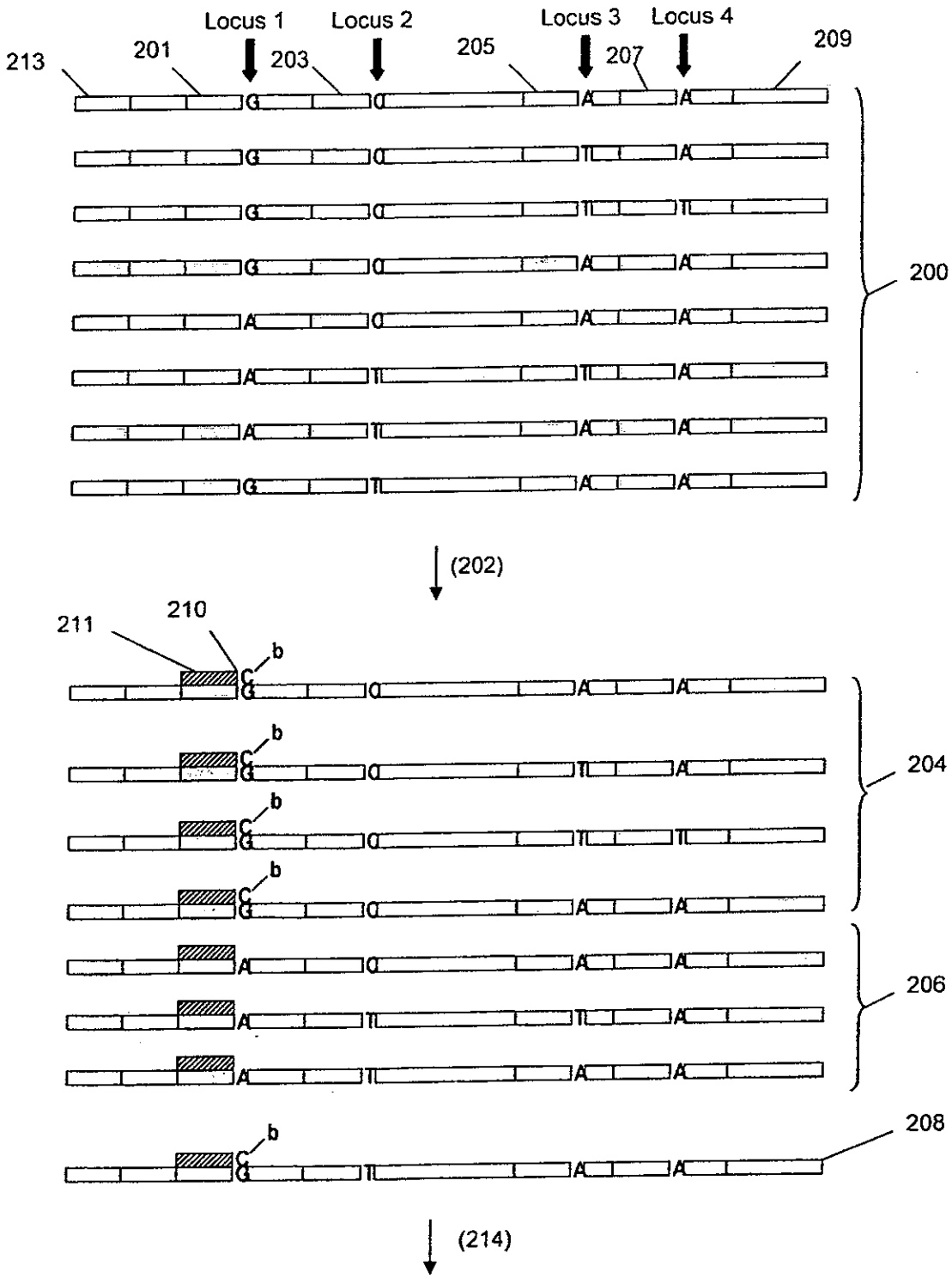

Locus 1
Locus 2
Locus 3
Locus 4
213
201
203
205
207
209
200
(202)
211
210
b
204
206
208
(214)

Fig. 2A

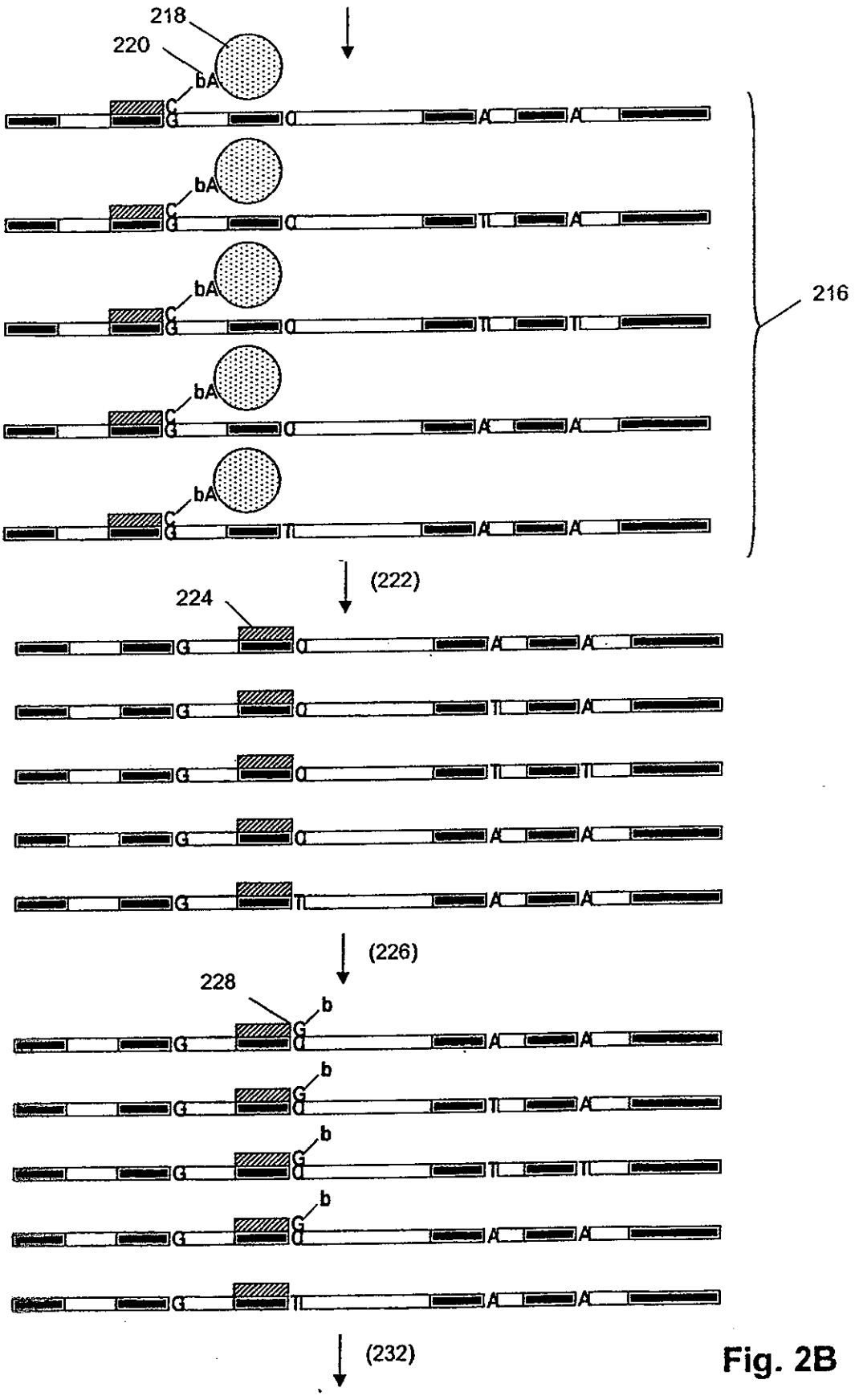


Fig. 2B

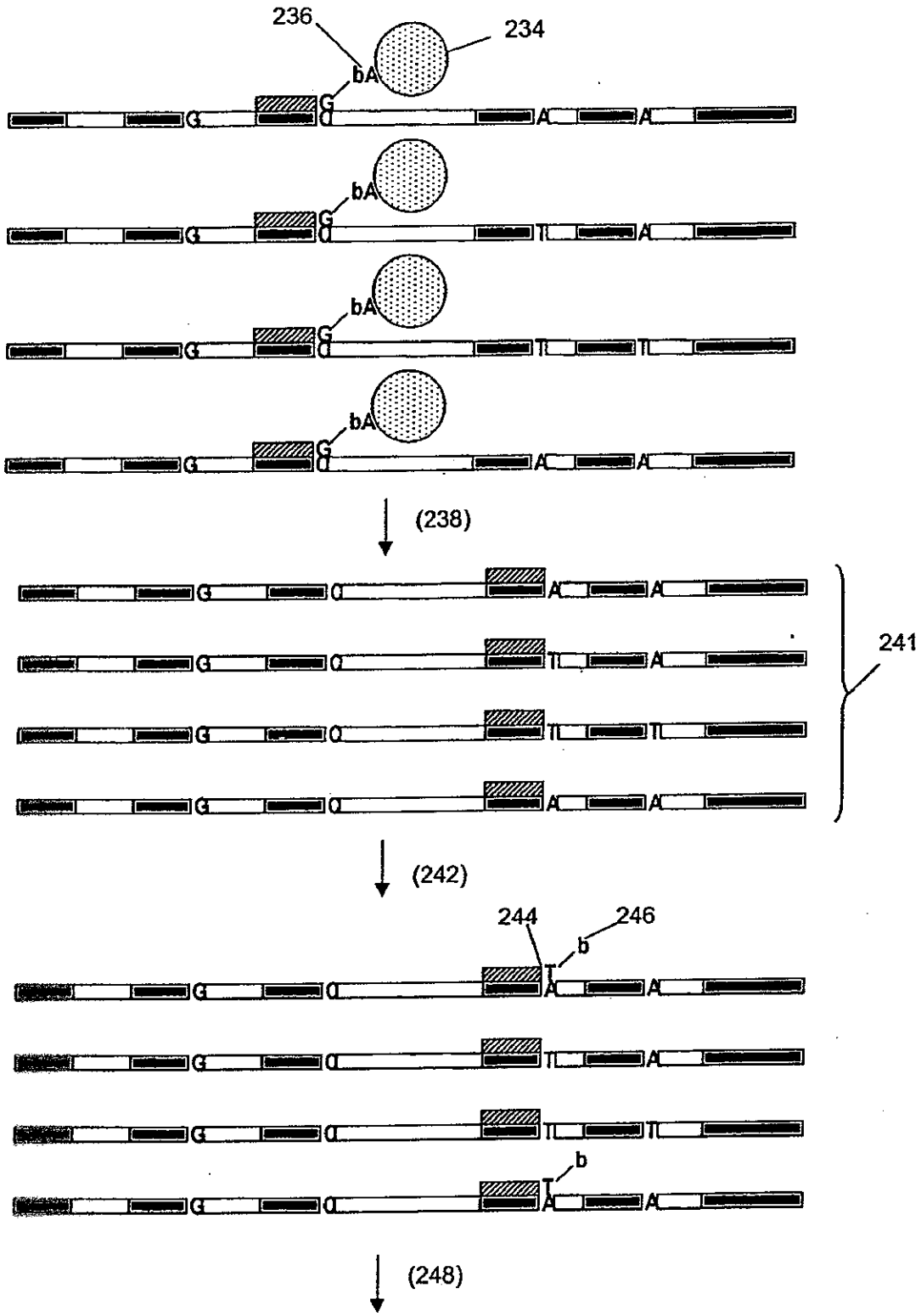


Fig. 2C

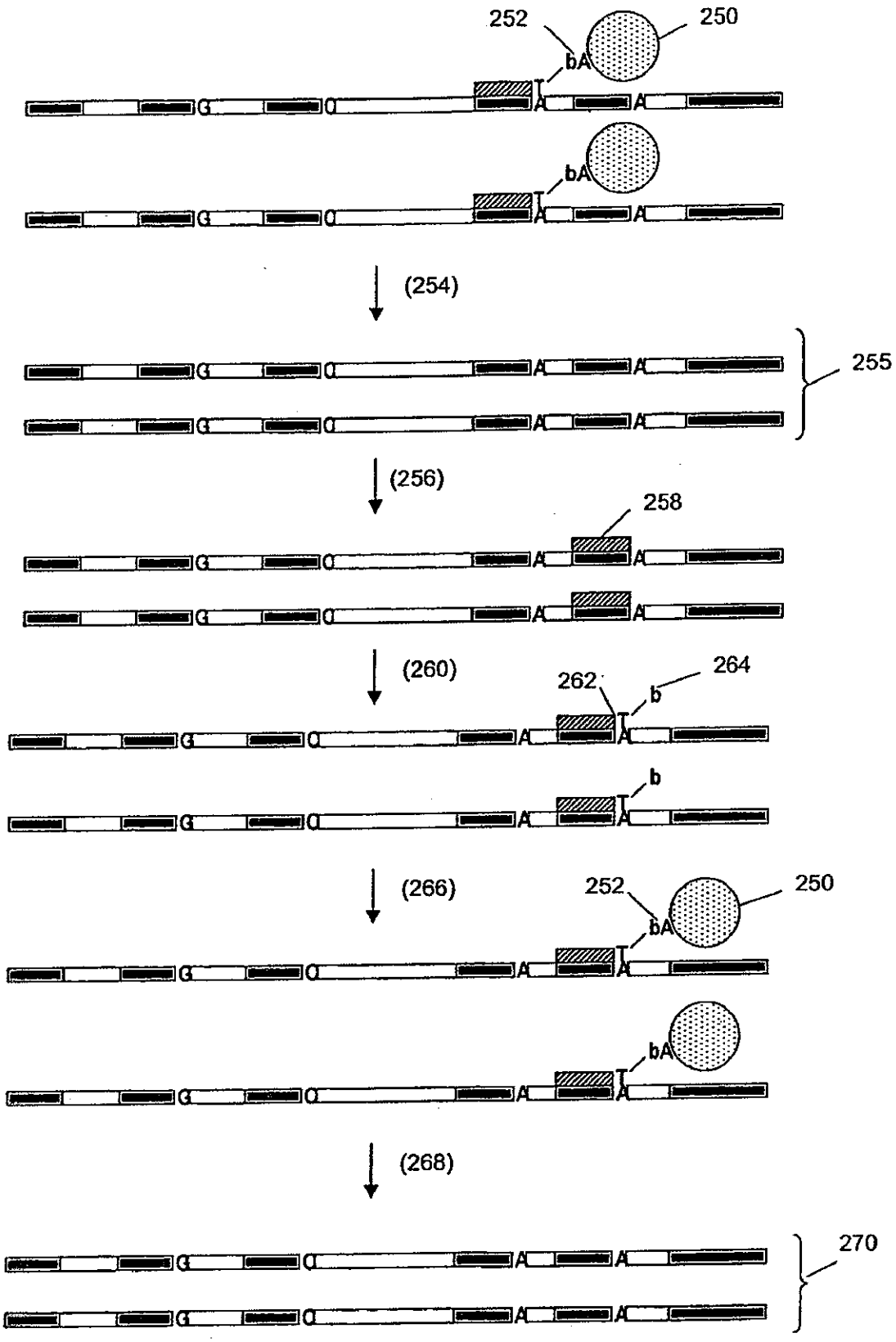
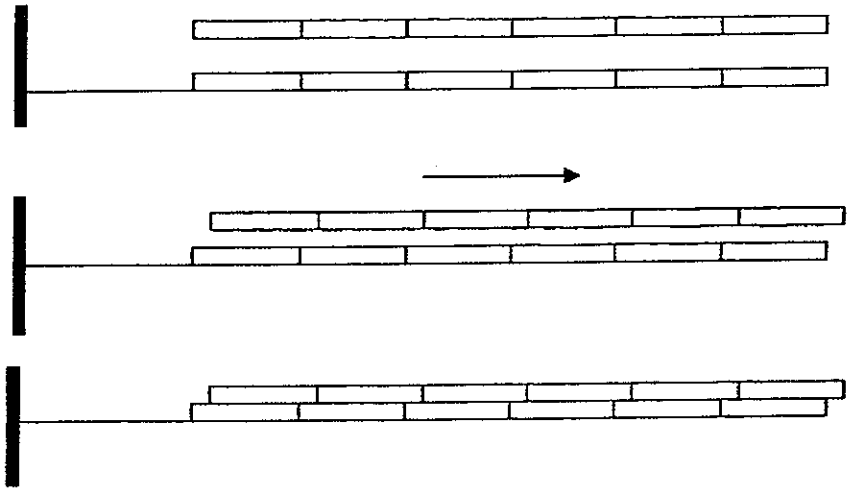
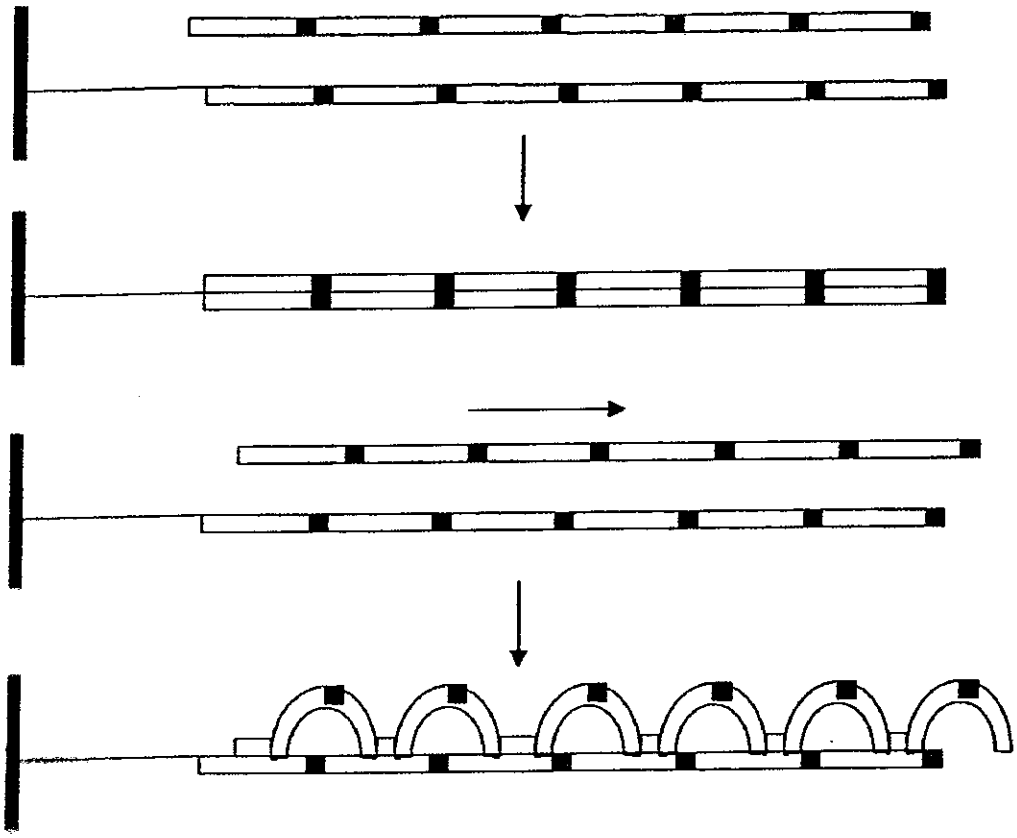

252
250
bA
bA
(254)
255
(256)
258
(260)
262
264
b
b
(266)
252
250
bA
bA
(268)
270

Fig. 2D



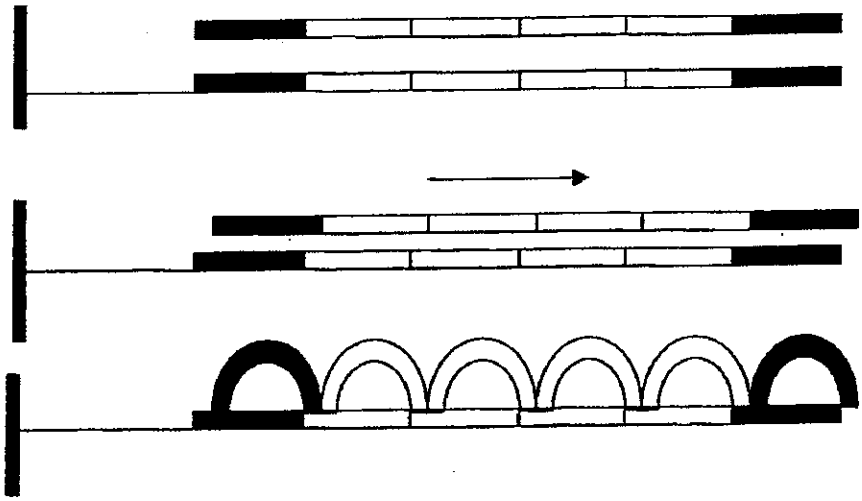
Combinatorial Tag With No "Commas"

Fig. 3A



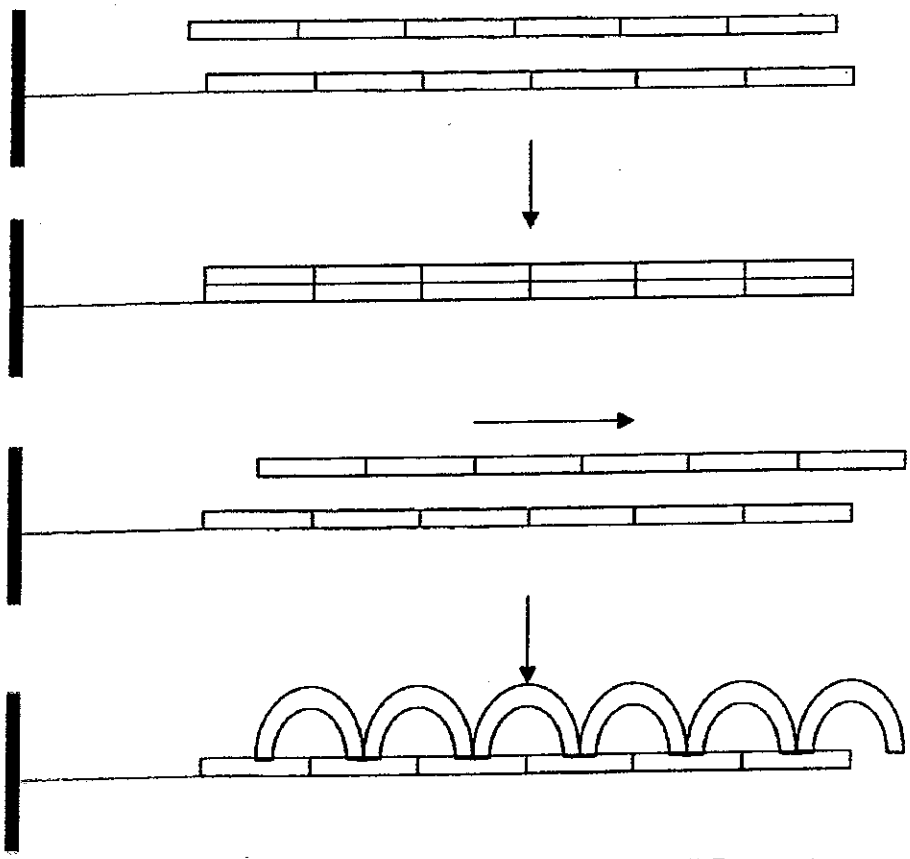
Combinatorial Tag With "Commas" Between Words

Fig. 3B



Combinatorial Tag With "Commas" at Each End

Fig. 3C



Combinatorial Tag With "Commas-less" Property

Fig. 3D

					Melting Temperatue		
					Basic	Salt Adjusted	Nearest Neighbor
gtcta	tgtca	cttgt	tcitt	acaga	53	61	52
tgtca	tgtca	cttgt	tcitt	acaga	53	61	54
acaga	tgtca	cttgt	tcitt	acaga	53	61	54
cagaa	tgtca	cttgt	tcitt	acaga	53	61	53
aicat	tgtca	cttgt	tcitt	acaga	51	59	52
gaact	tgtca	cttgt	tcitt	acaga	53	61	53
cttgt	tgtca	cttgt	tcitt	acaga	53	61	53
tcitt	tgtca	cttgt	tcitt	acaga	51	59	52
gtcta	gtcta	cttgt	tcitt	acaga	53	61	52
gtcta	acaga	cttgt	tcitt	acaga	53	61	52
gtcta	cagaa	cttgt	tcitt	acaga	53	61	52
gtcta	aicat	cttgt	tcitt	acaga	51	59	51
gtcta	gaact	cttgt	tcitt	acaga	53	61	53
gtcta	cttgt	cttgt	tcitt	acaga	53	61	52
gtcta	tcitt	cttgt	tcitt	acaga	51	59	51
gtcta	tgtca	gtcta	tcitt	acaga	53	61	52
gtcta	tgtca	tgtca	tcitt	acaga	53	61	52
gtcta	tgtca	acaga	tcitt	acaga	53	61	52
gtcta	tgtca	cagaa	tcitt	acaga	53	61	52
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gtcta	tgtca	cttgt	gaact	acaga	54	63	54
gtcta	tgtca	cttgt	cttgt	acaga	54	63	54
			Mean		53	61	53
			Std Dev		1	1	1

Fig. 4