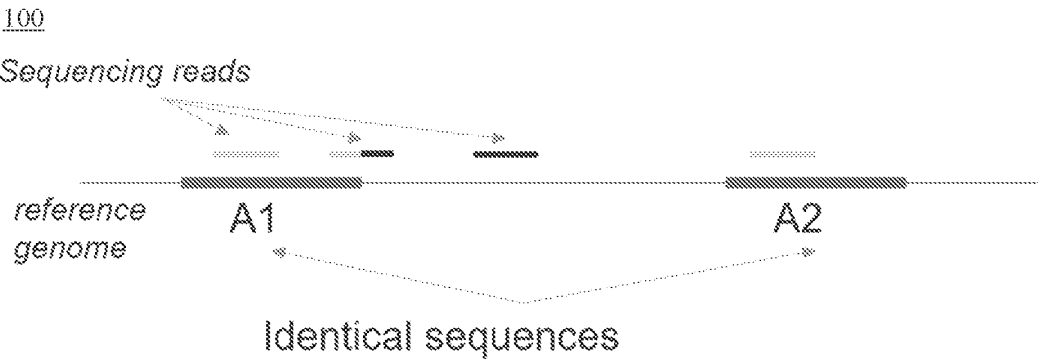




	Alignment	Mapping	Used for VC
	Good	Good	Yes
	Good	Good	Yes
	Good	Bad	No

FIG. 1

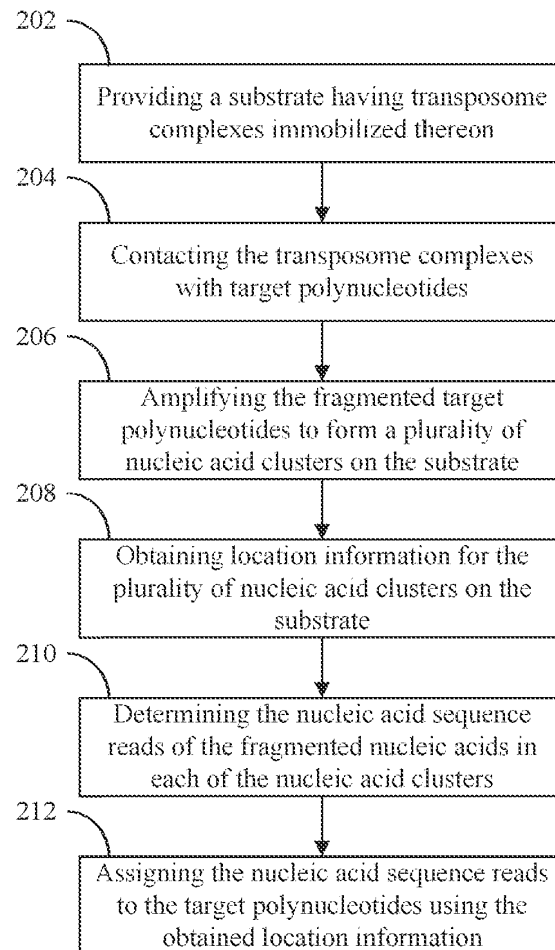
200

FIG. 2

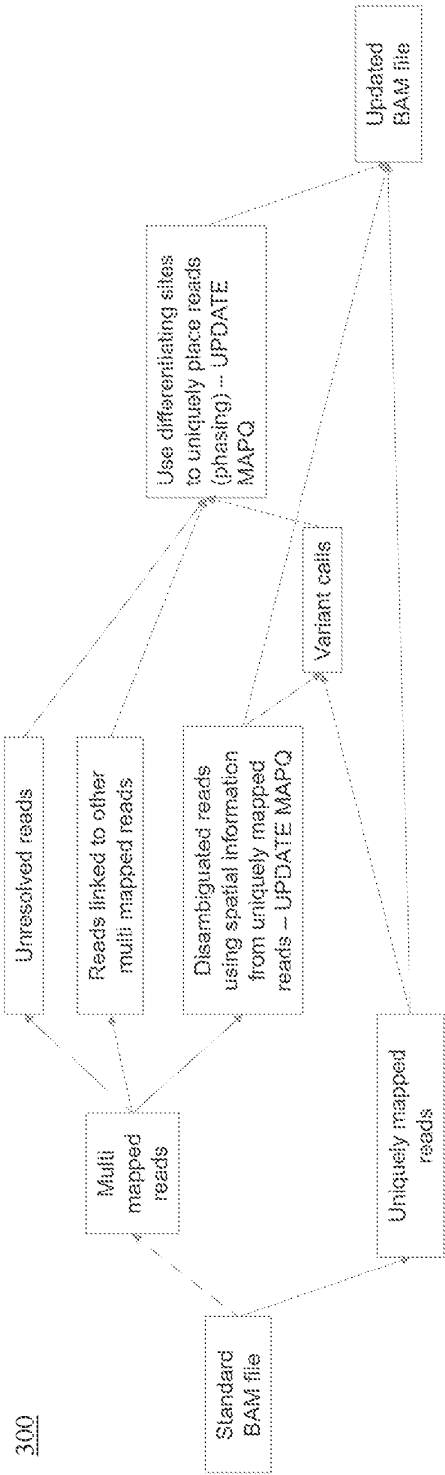


FIG. 3A

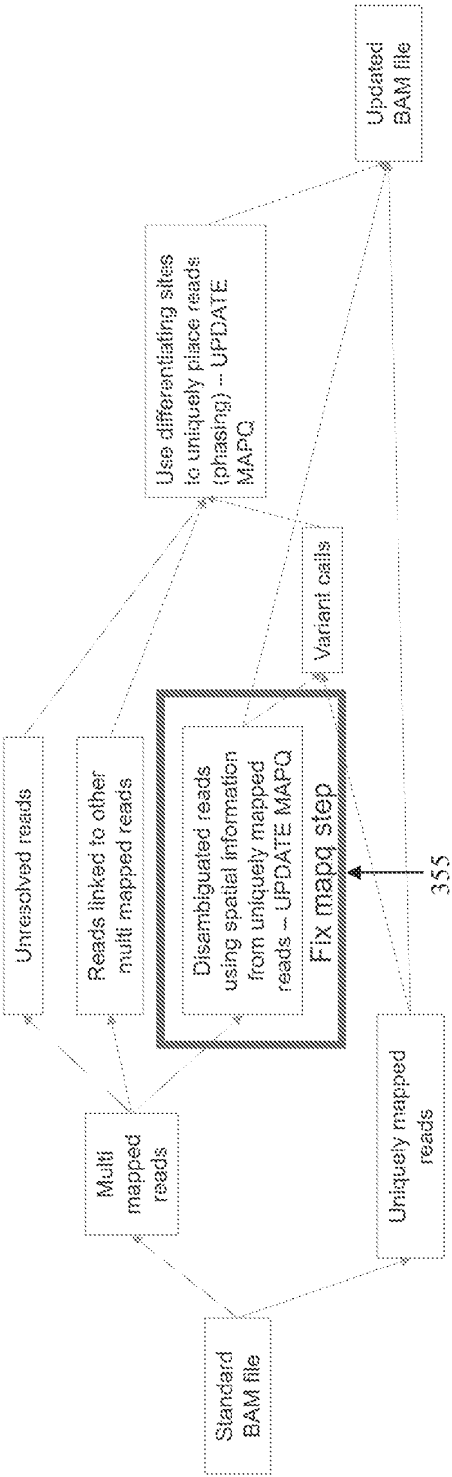


FIG. 3B

400

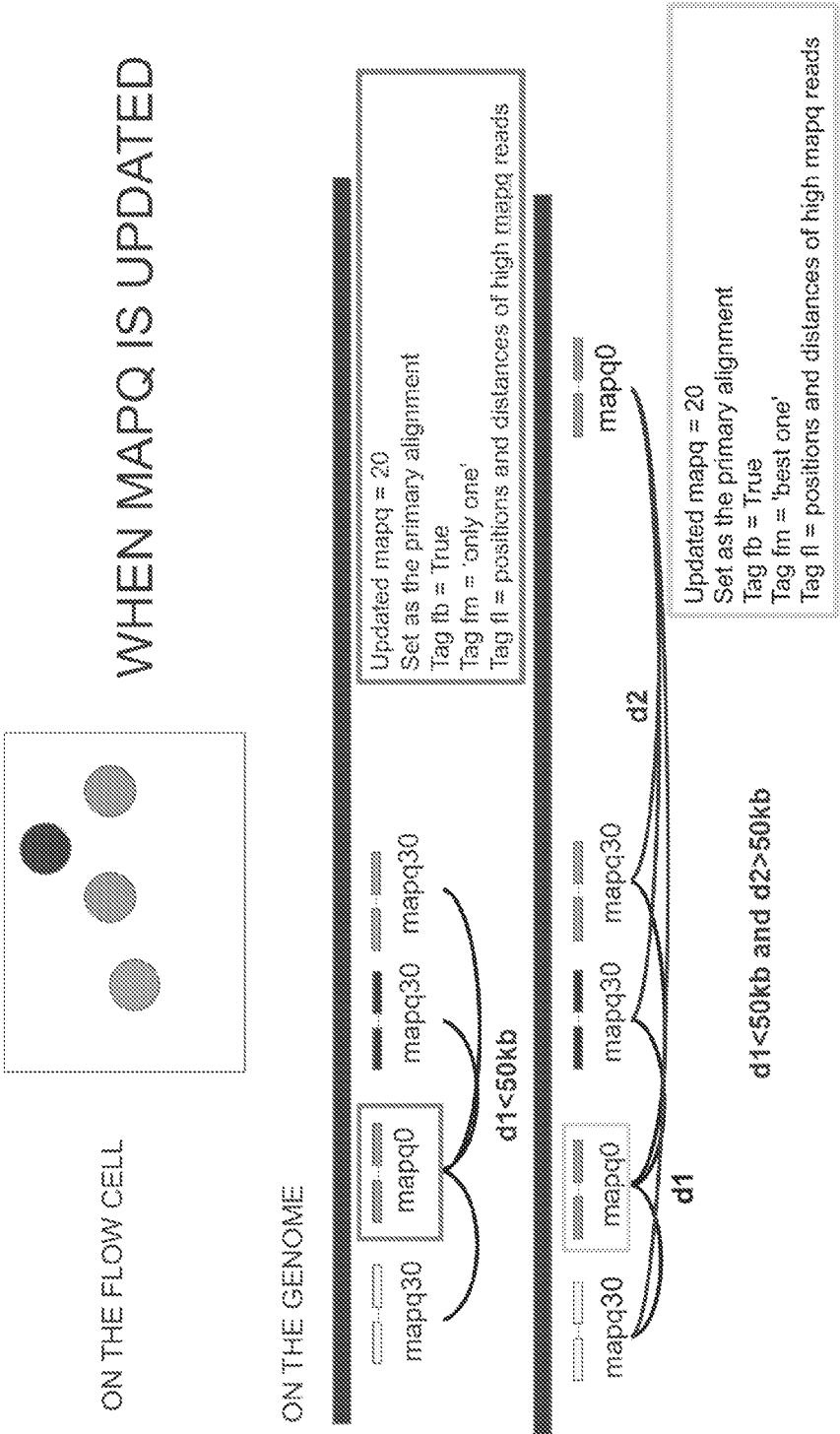


FIG. 4A

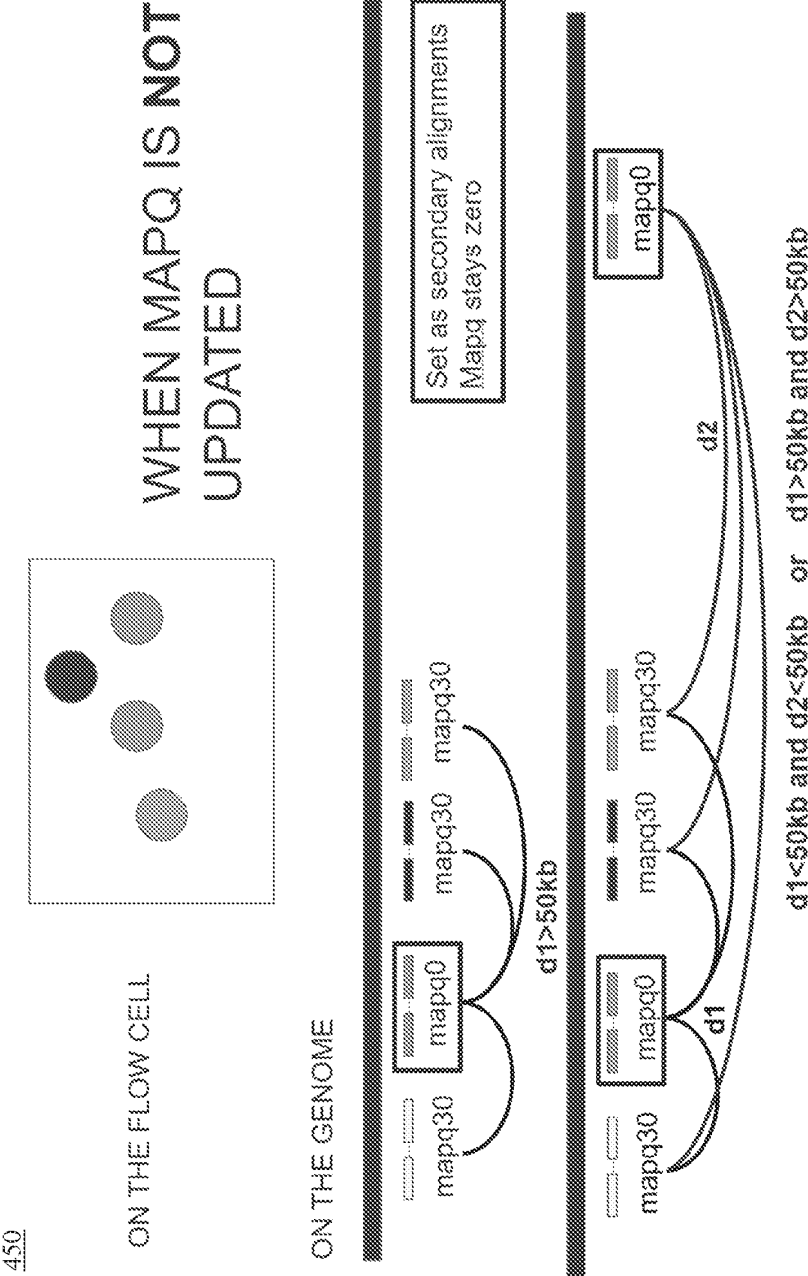
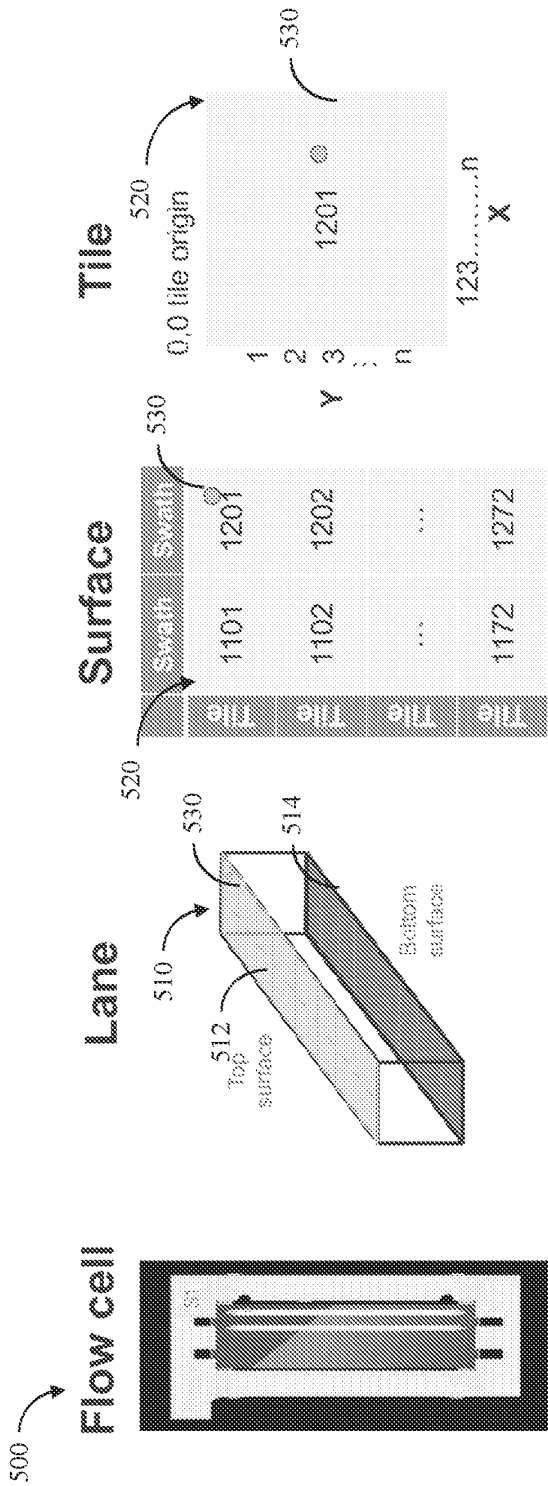


FIG. 4B



Read name: A01298:280:HYC2MDRX2:2:1201:26928:18349

FIG. 5

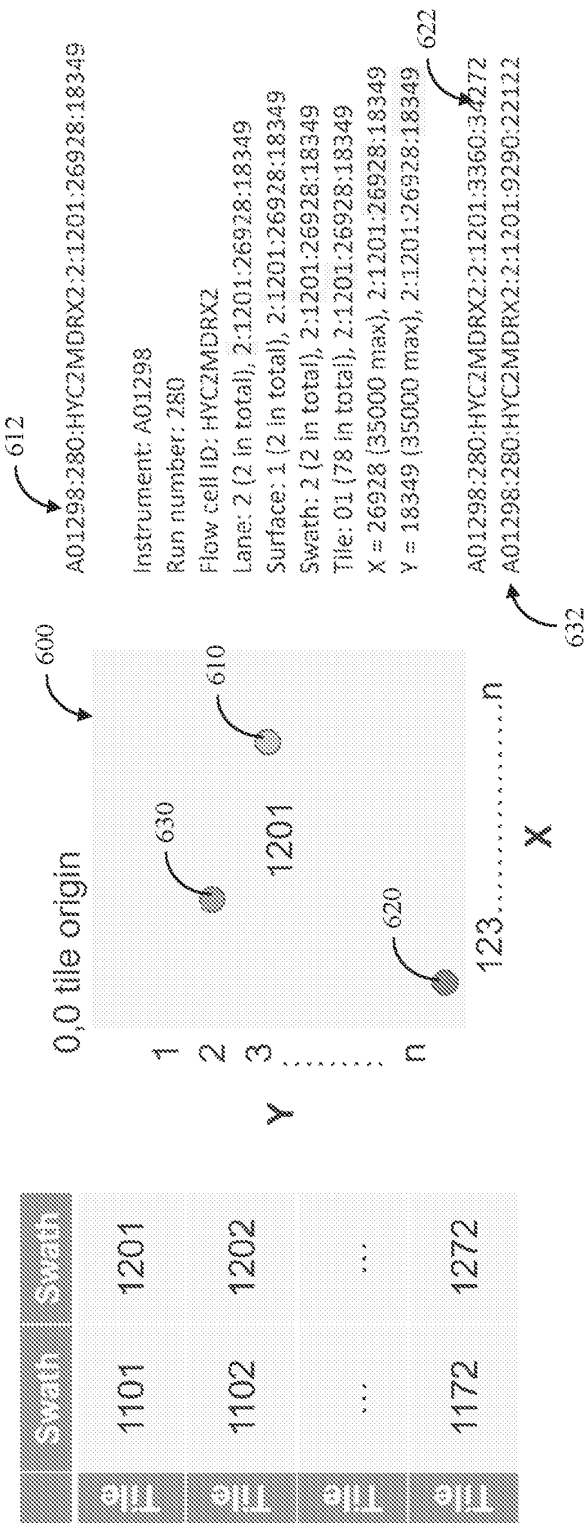


FIG. 6

700

Tile		Swath	
1101	1201	1101	1201
1102	1202	1102	1202
...	...	...	...
1172	1272	1172	1272

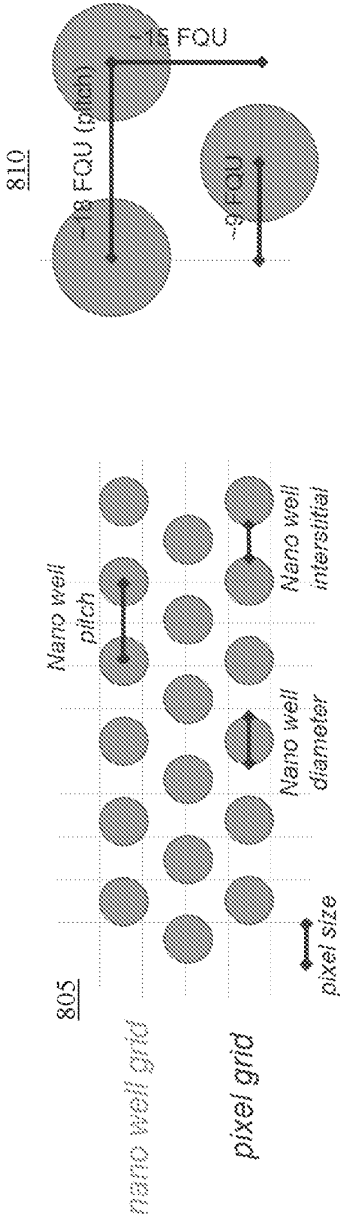
X flow cell = X tile * tile number

Y flow cell = Y tile * swath number

Read name	Tile X,Y	Flow cell X,Y
A01298:280:HYC2MDRX2.2:1201:3360:34272	26928;18349	26928;36698
A01298:280:HYC2MDRX2.2:1201:3360:34272	3360;34272	3360;68544
A01398:280:HYC2MDRX2.2:1201:9290:22122	9290;22122	9290;44244
A01298:280:HYC2MDRX2.2:1101:28289;1955	28289;1955	28289;1955
A01298:280:HYC2MDRX2.2:1202:3360:34272	3360;34272	6720;68544
A01298:280:HYC2MDRX2.2:1172:19155;2118	19155;2118	1379160;2118

FIG. 7

800



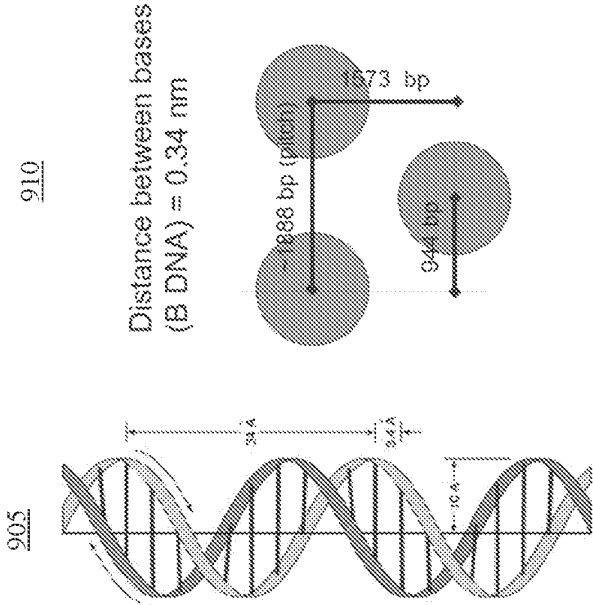
Platform	Pixel to FOU	Pixel size (nm)	FOU size (nm)	Nano well Pitch (nm, pixel, FOU)	Nano well Interstitial (nm)	Nano well diameter (nm)	Cluster per tile	Geometry
NovaSeq6000	1/10	345	34.5	624, 181, 18.1	282	360	4,078,080	Hexagon

FIG. 8

Feature	FQU	nm	bp	Nano well count*
Pitch	18	642	1,888	2
10 nano wells	180	6,420	18,880	10
10kb	95	3,400	10,000	5.2
50kb	475	17,000	50,000	26
100kb	950	34,000	100,000	52

*considering linear DNA

FIG. 9



900

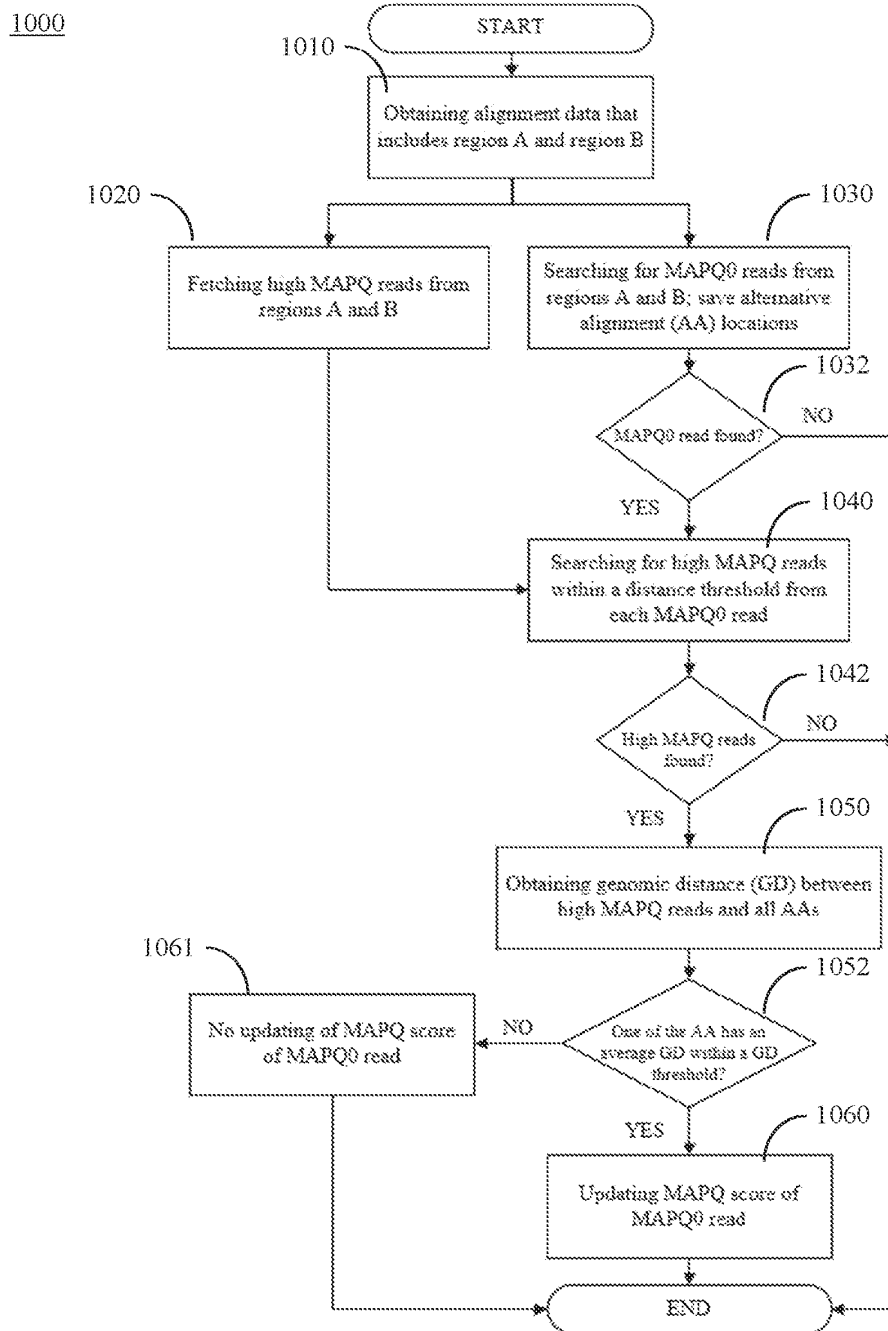


FIG. 10

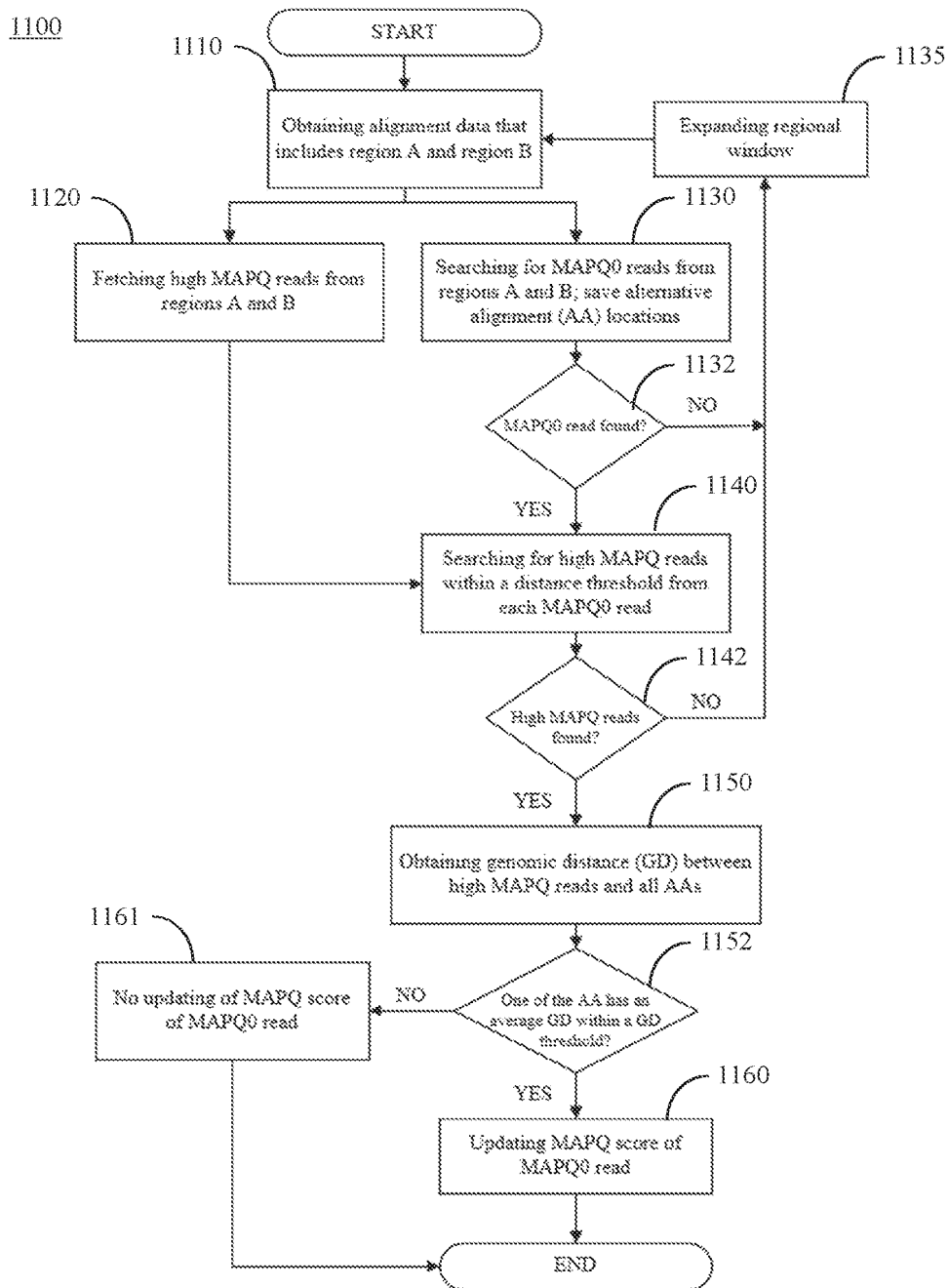


FIG. 11