

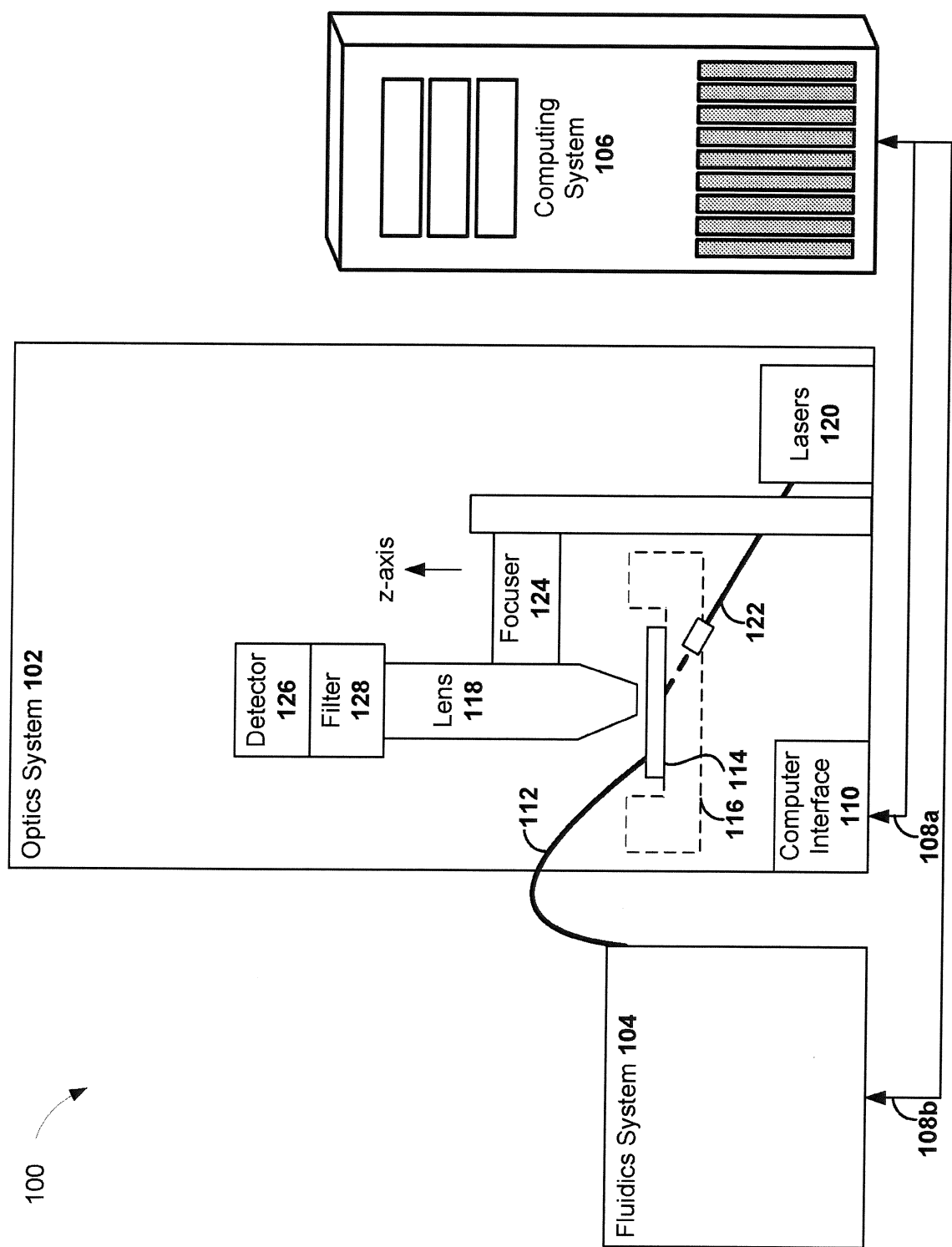


FIG. 1

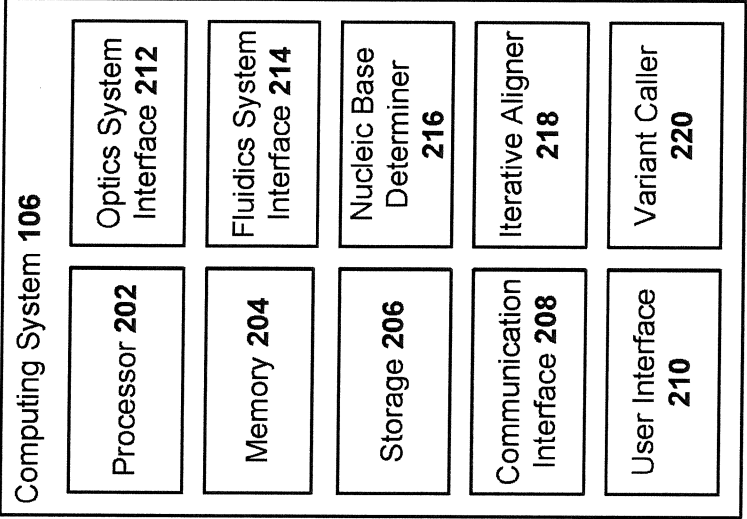
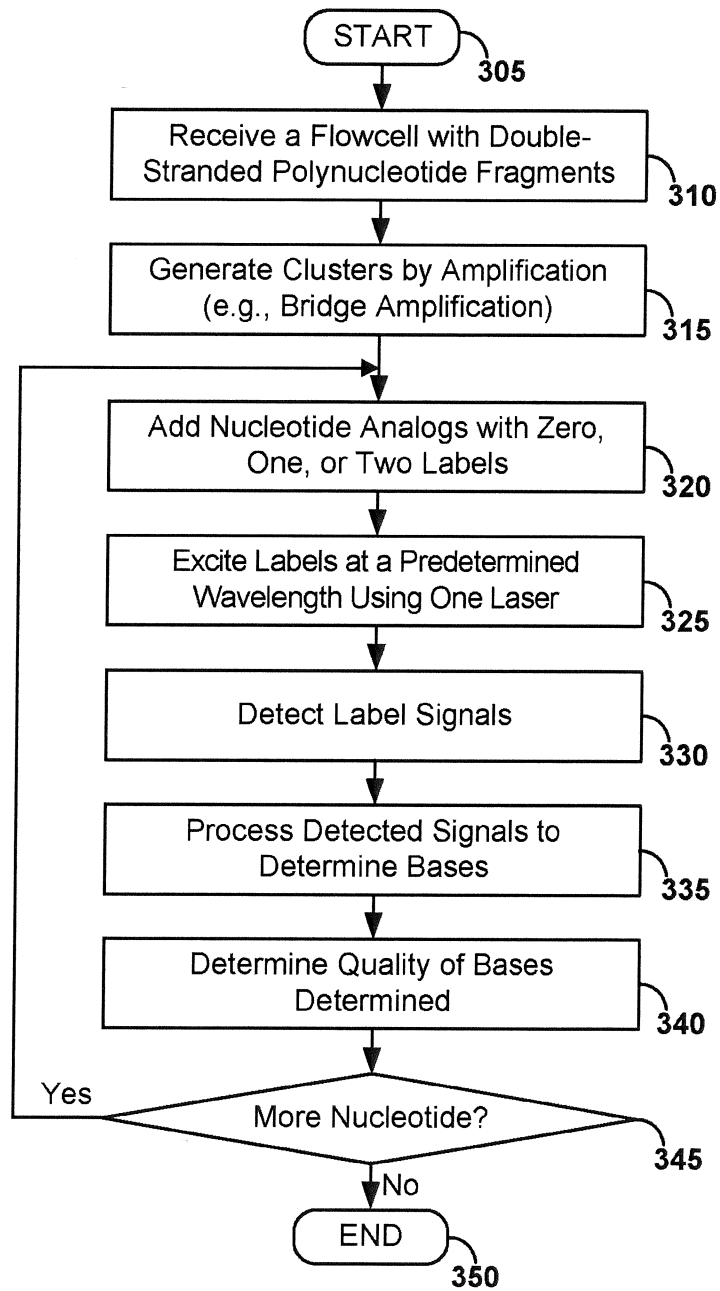
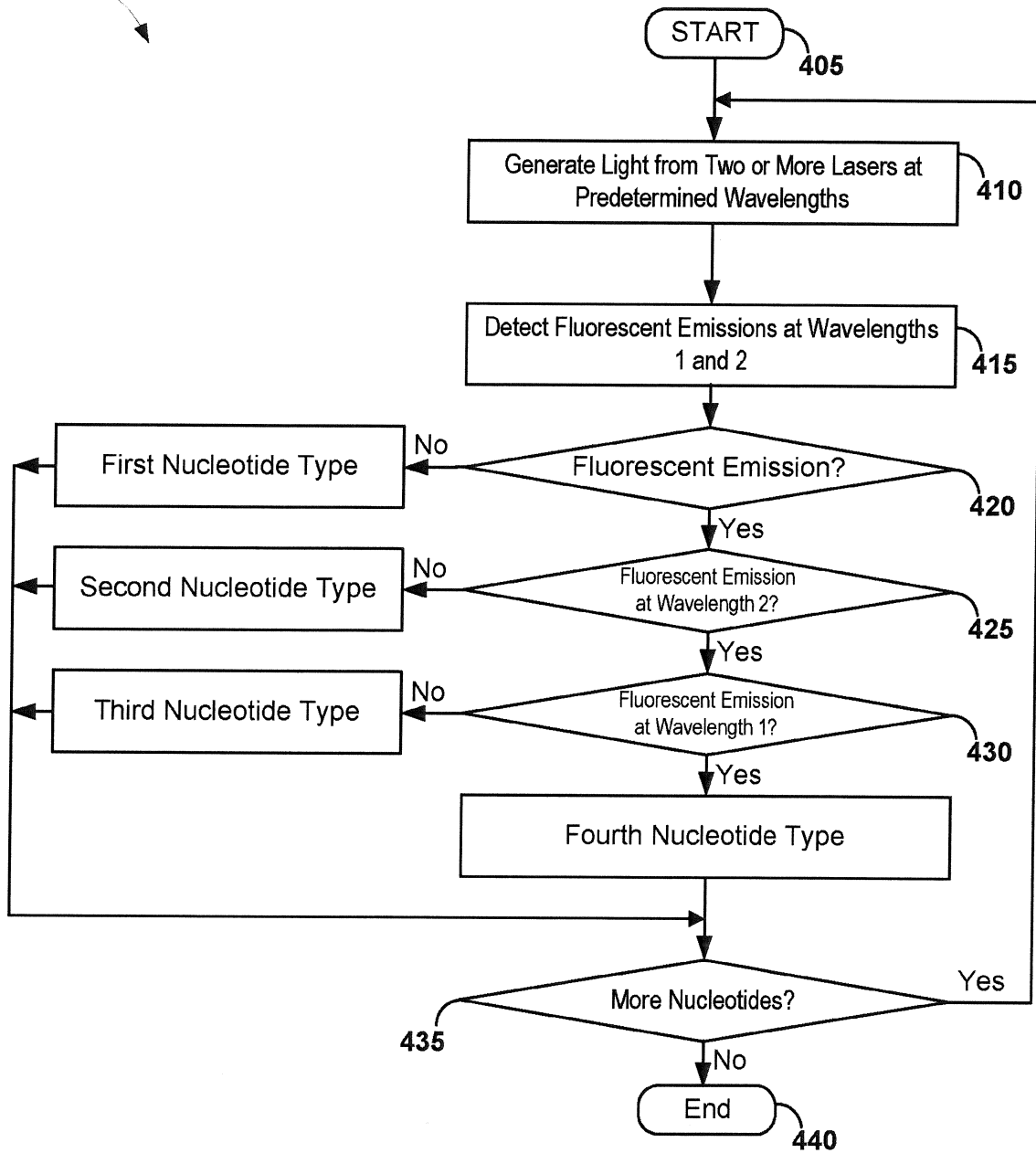


FIG. 2

300

**FIG. 3**

400

**FIG. 4**

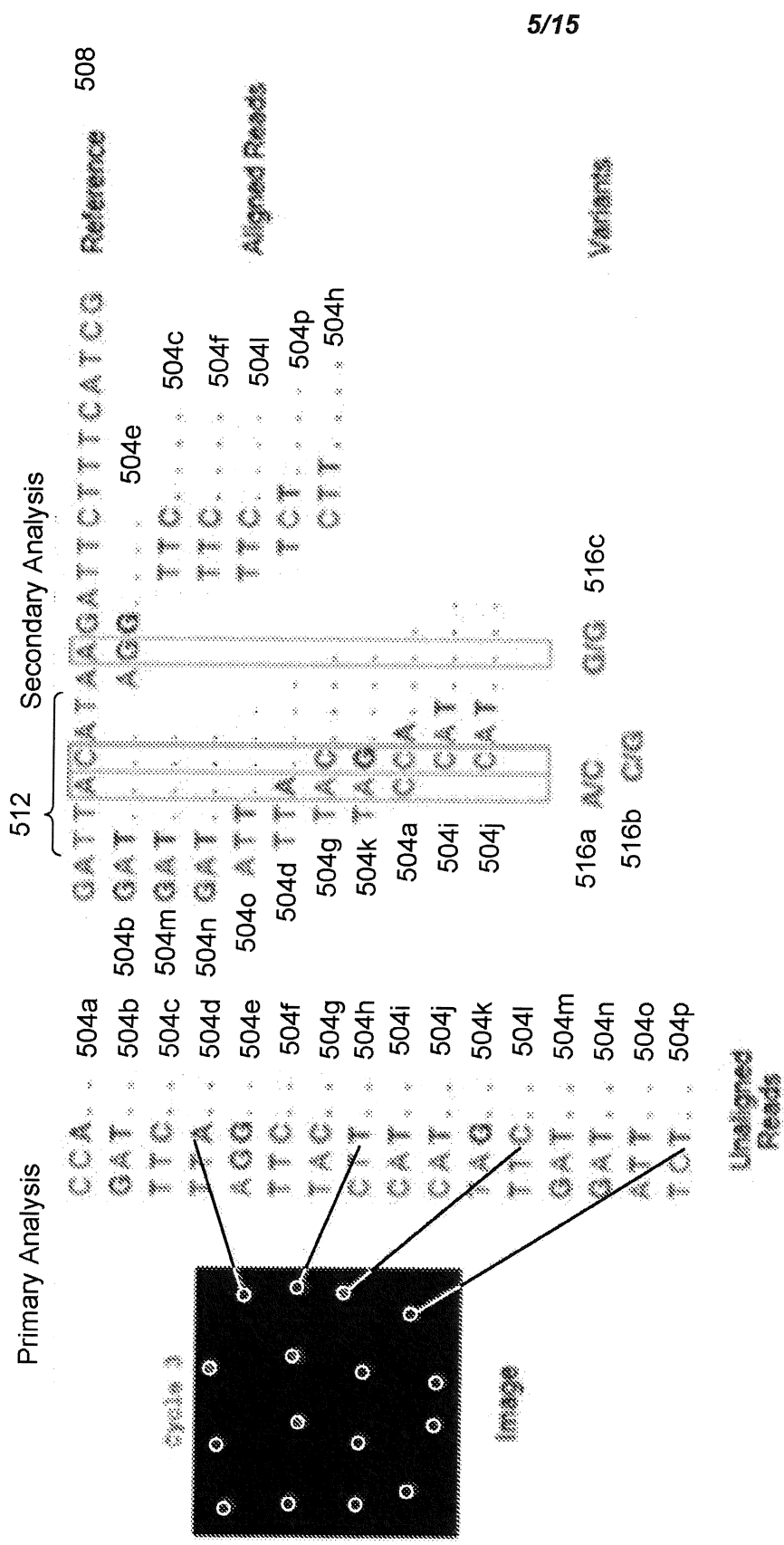


FIG. 5A

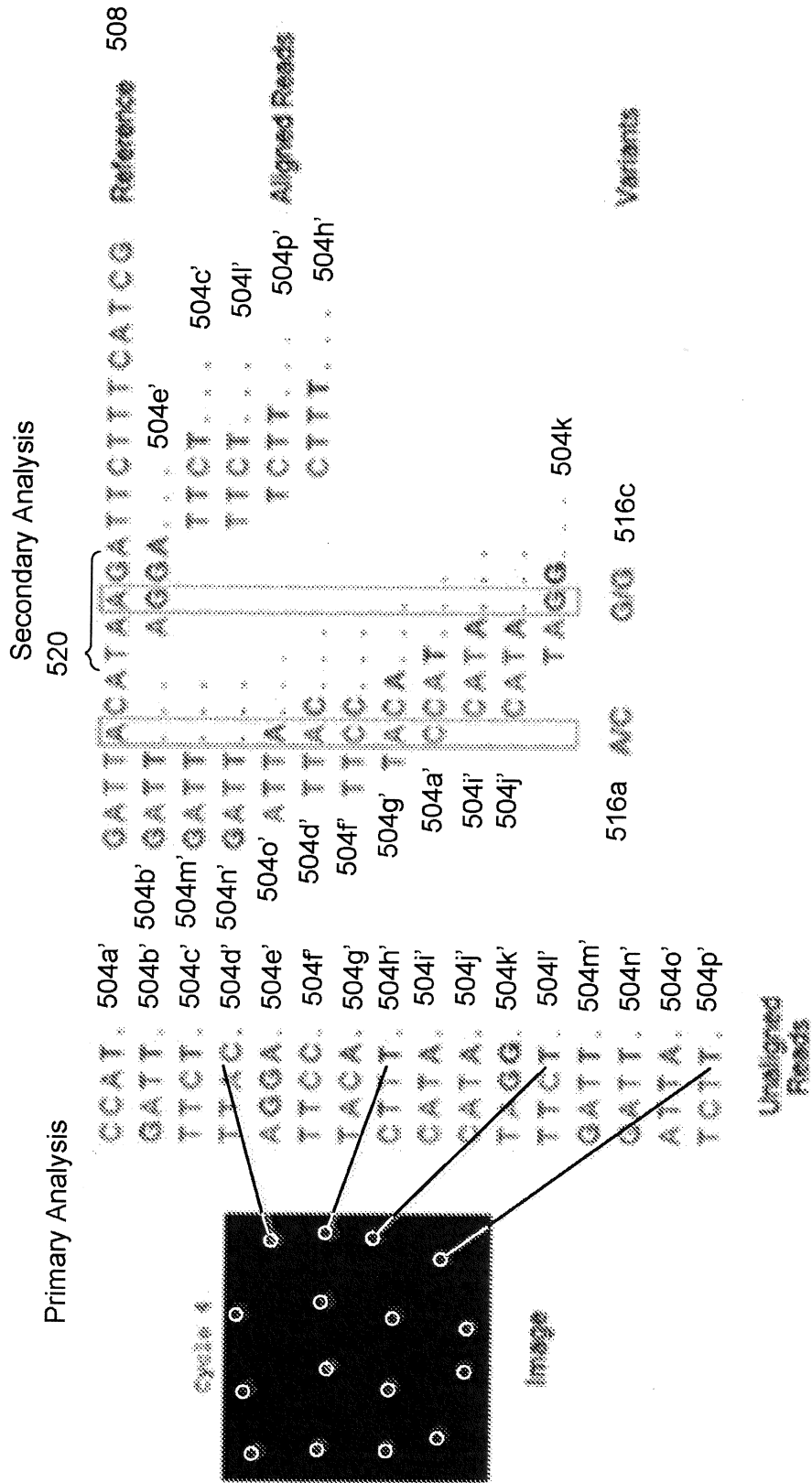
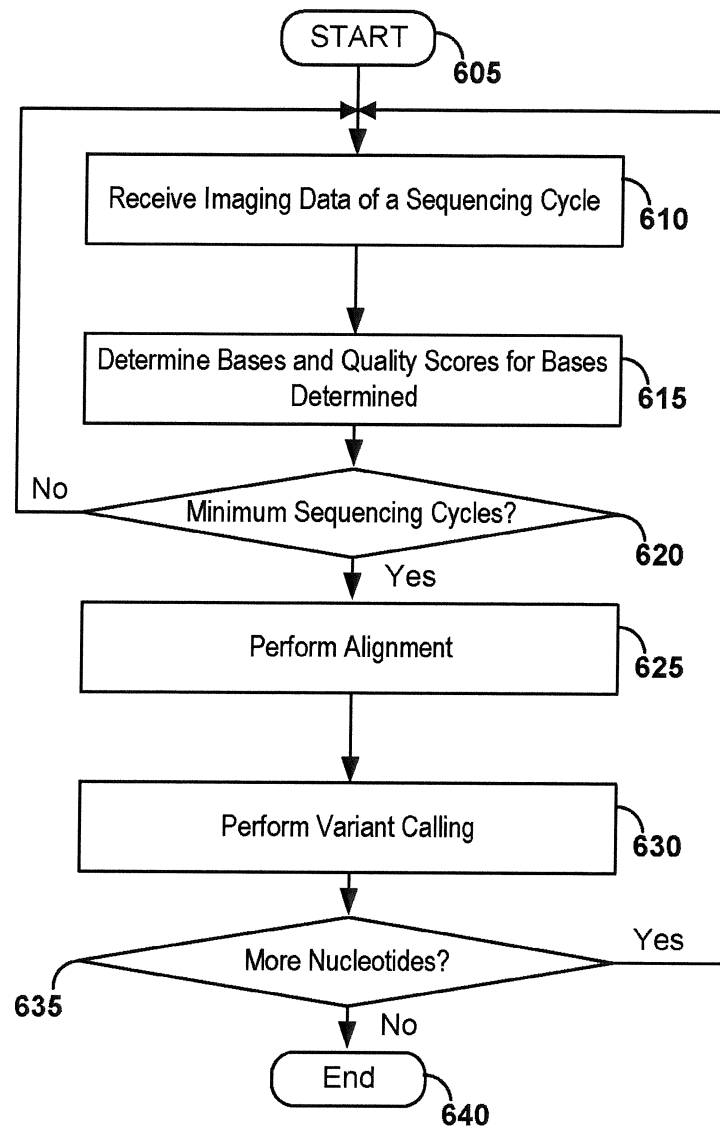


FIG. 5B

600

**FIG. 6**

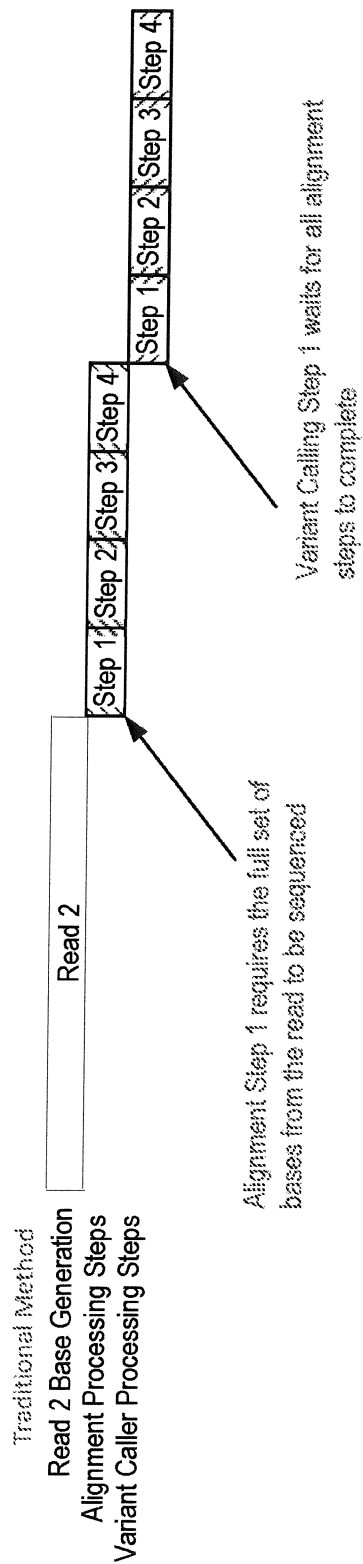


FIG. 7A

PiorArt

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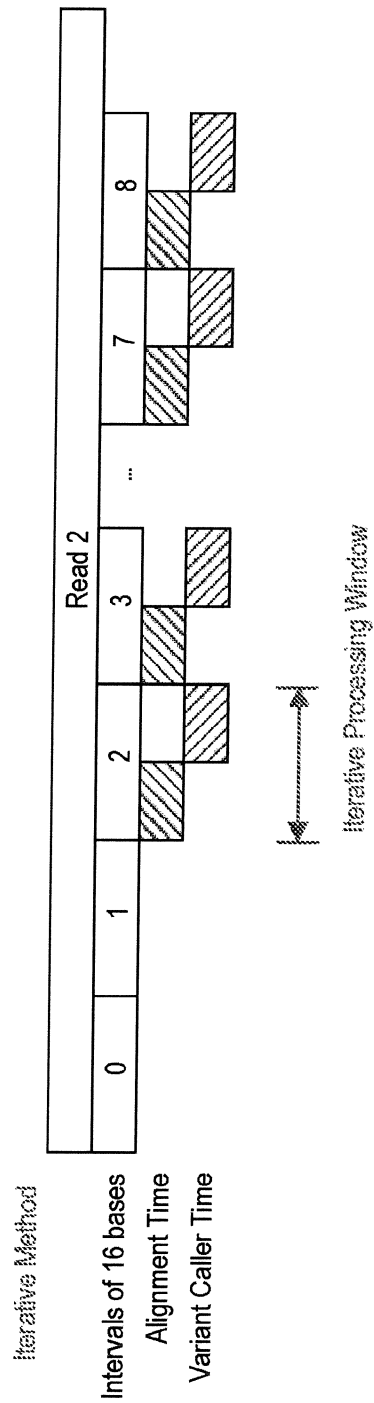


FIG. 7B

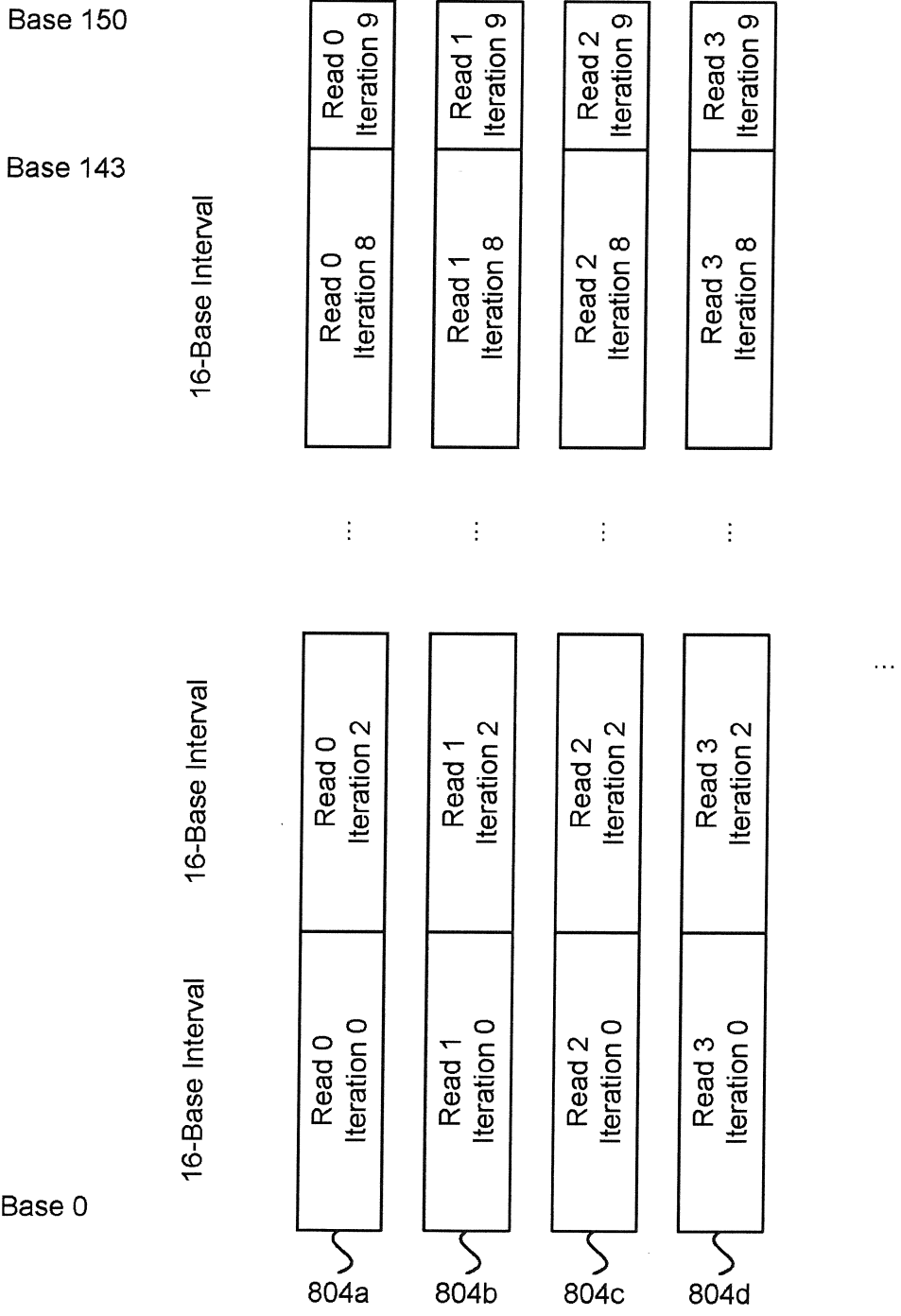
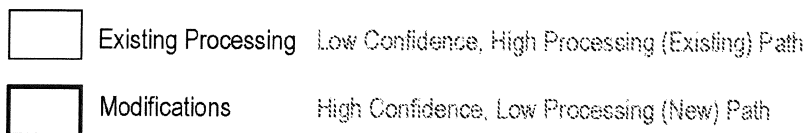
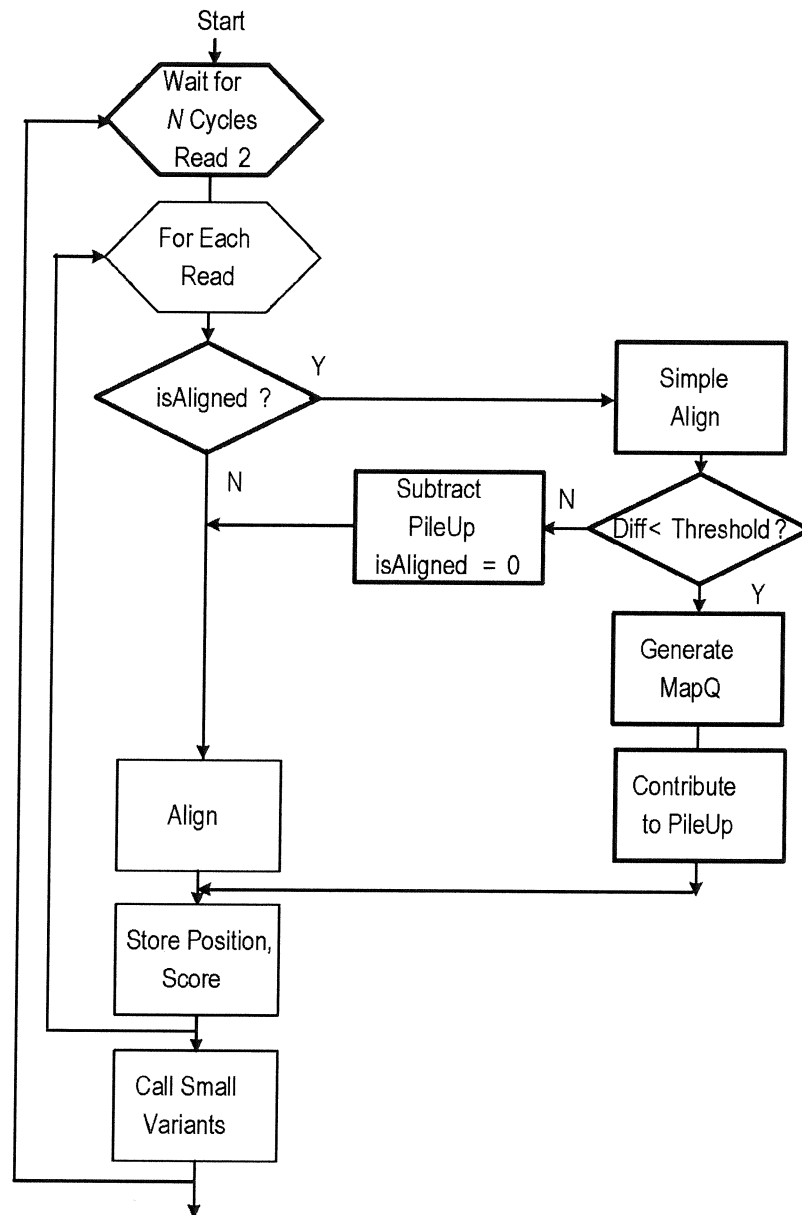


FIG. 8

900

**FIG. 9A**

Data Processed Per K-Mer

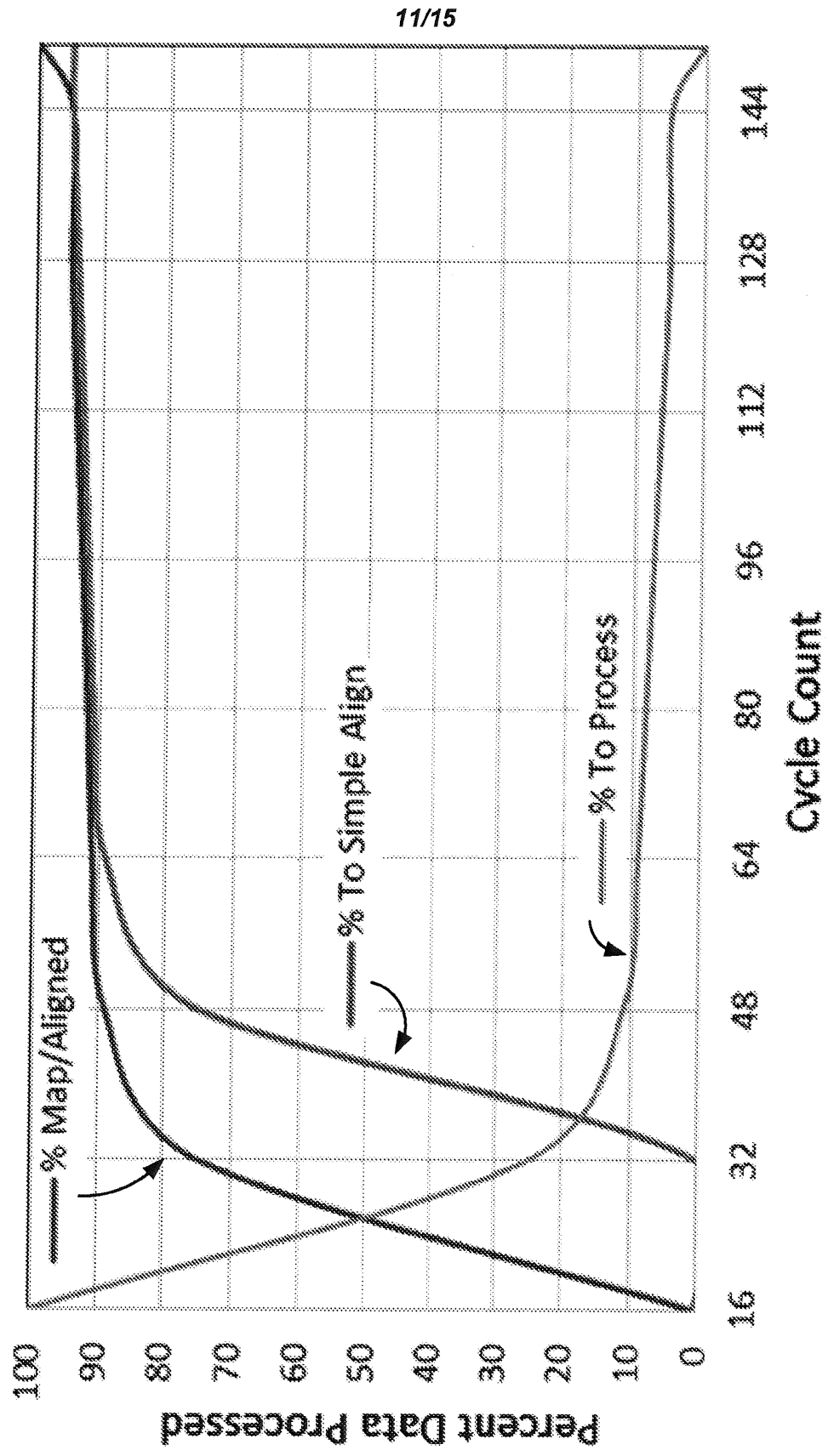


FIG. 9B

Run time (64 cycles in read 2)

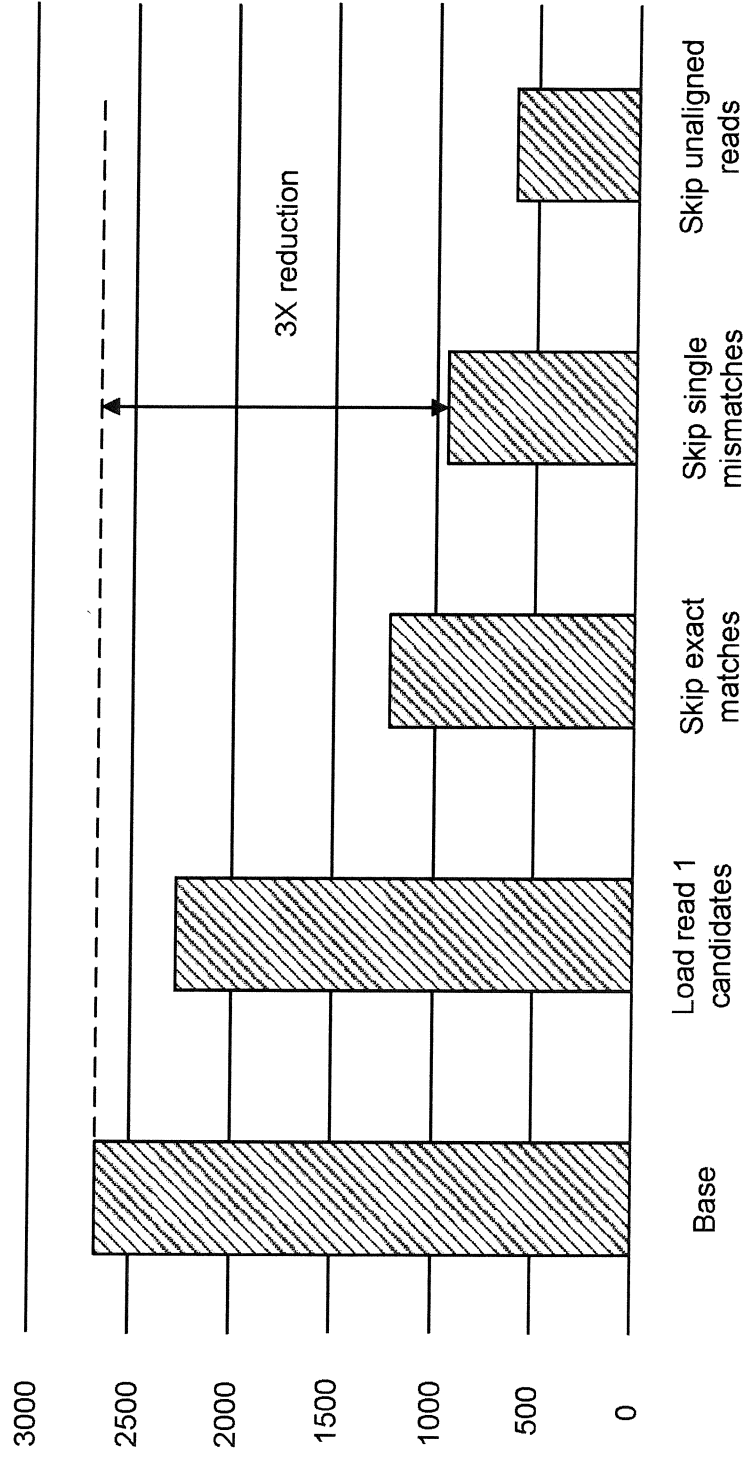
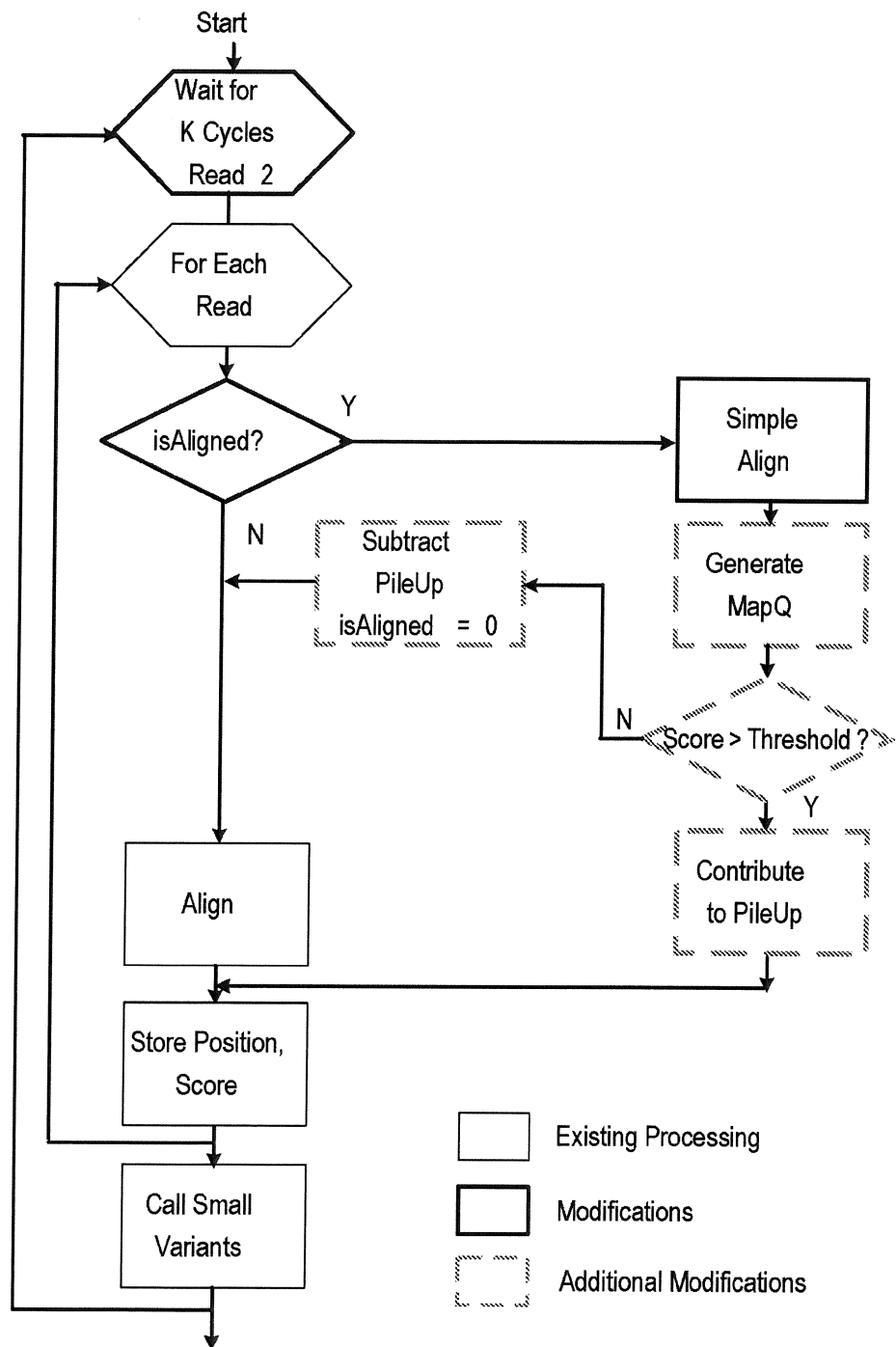
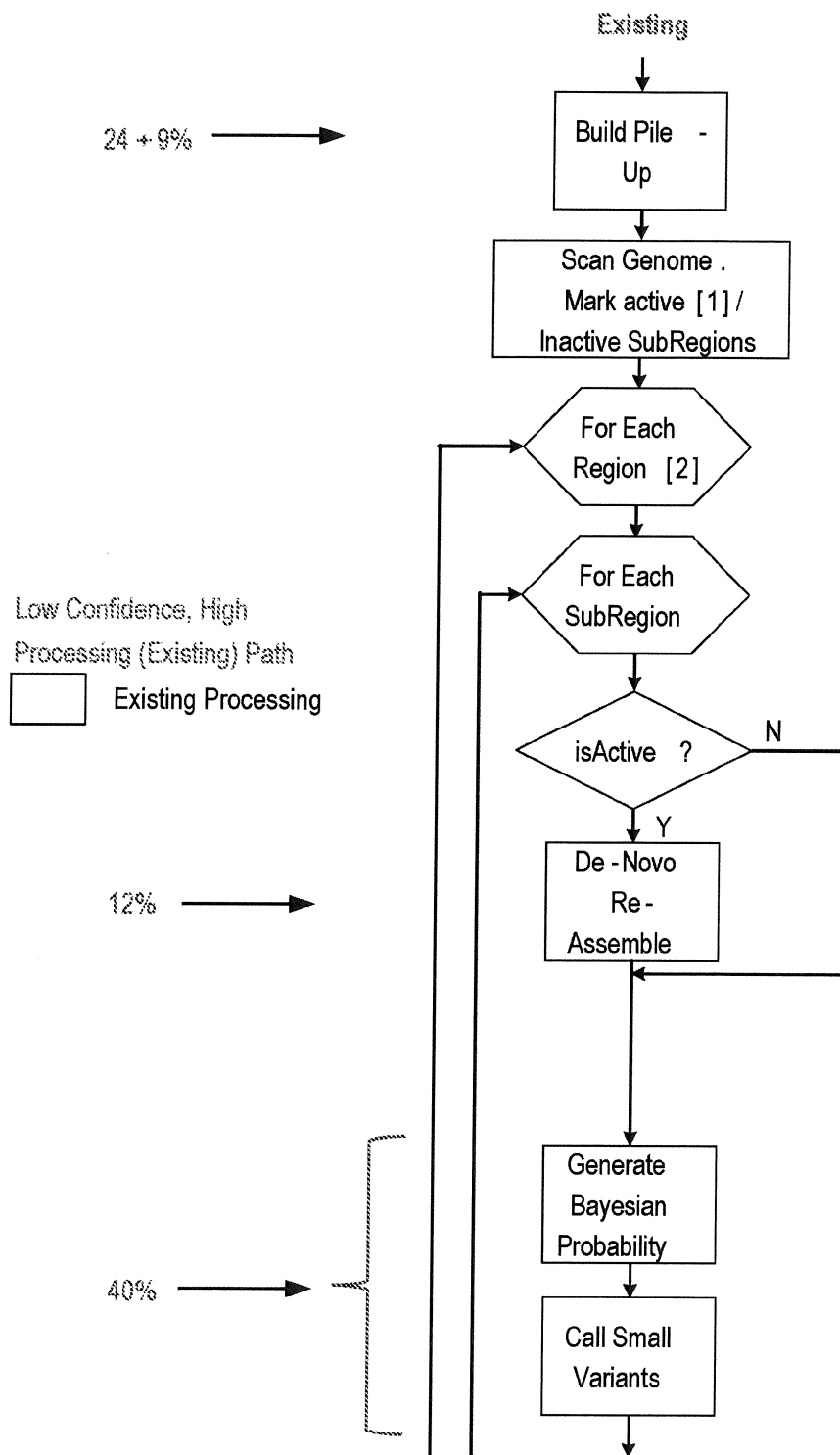


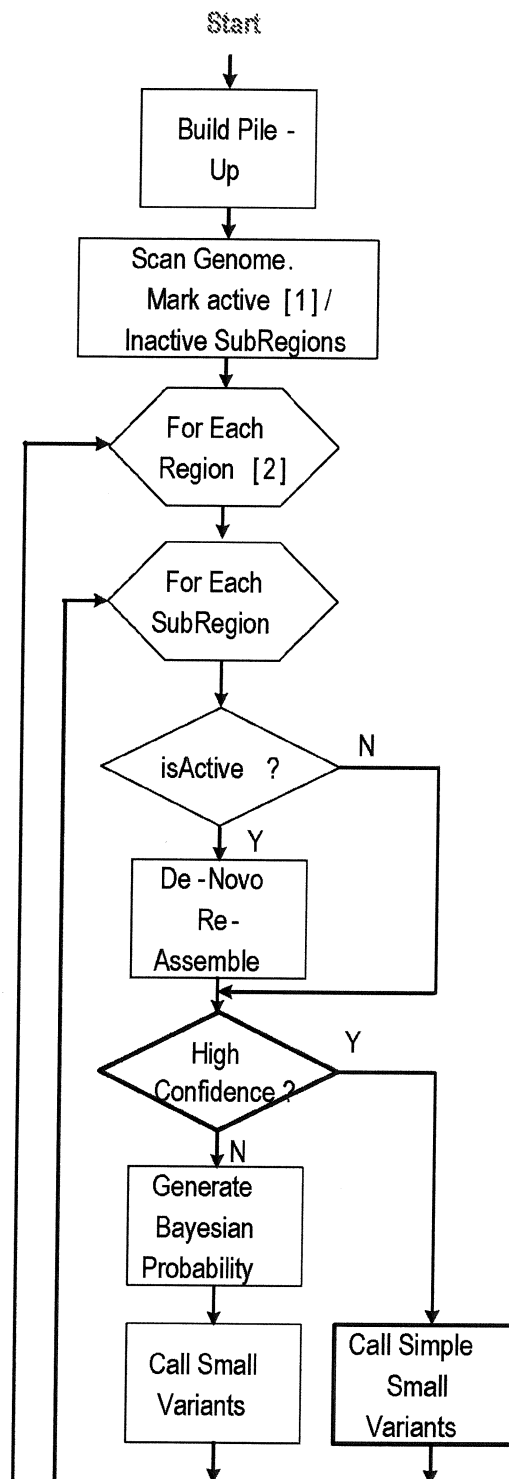
FIG. 9C

1000

**FIG. 10**

**FIG. 11A**

Prior Art



Existing Processing

Modifications

High Confidence, Low Processing (New) Path
Implementation of yellow path shows the ability to
reduce processing by ~40%

FIG. 11B