

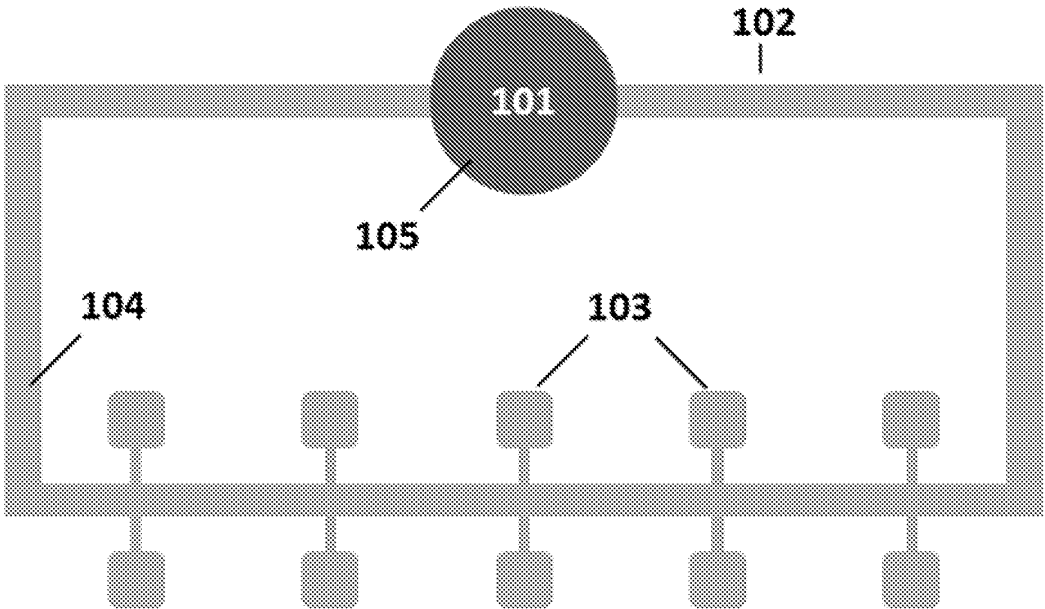


FIG. 1A

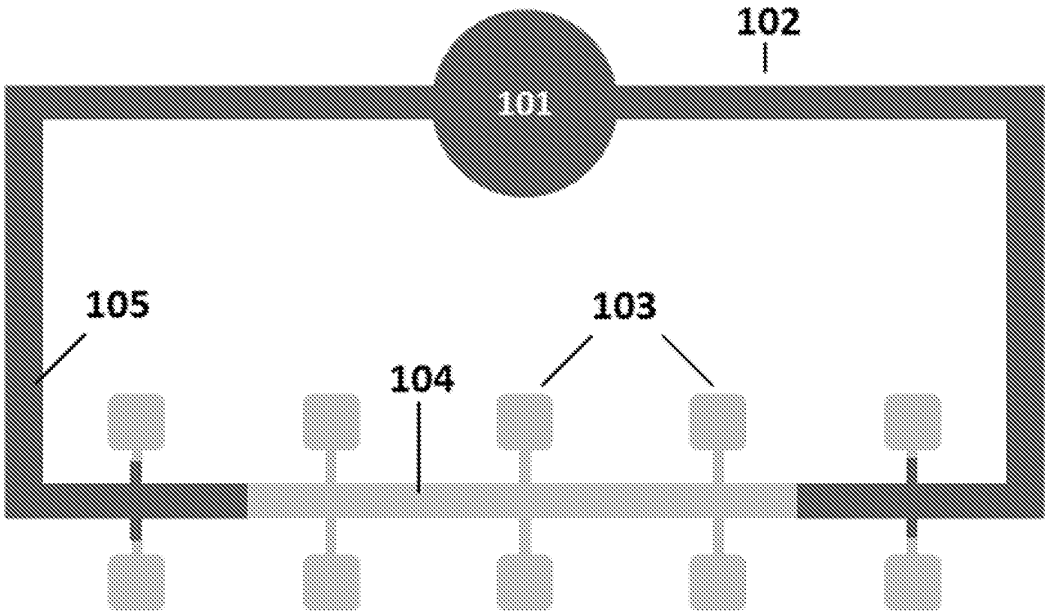


FIG. 1B

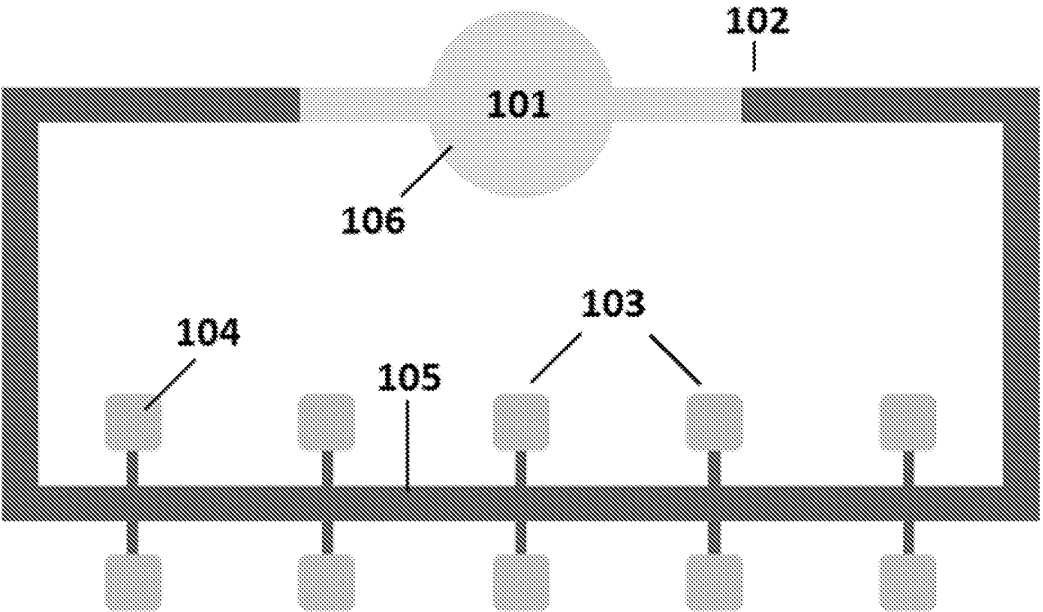


FIG. 1C

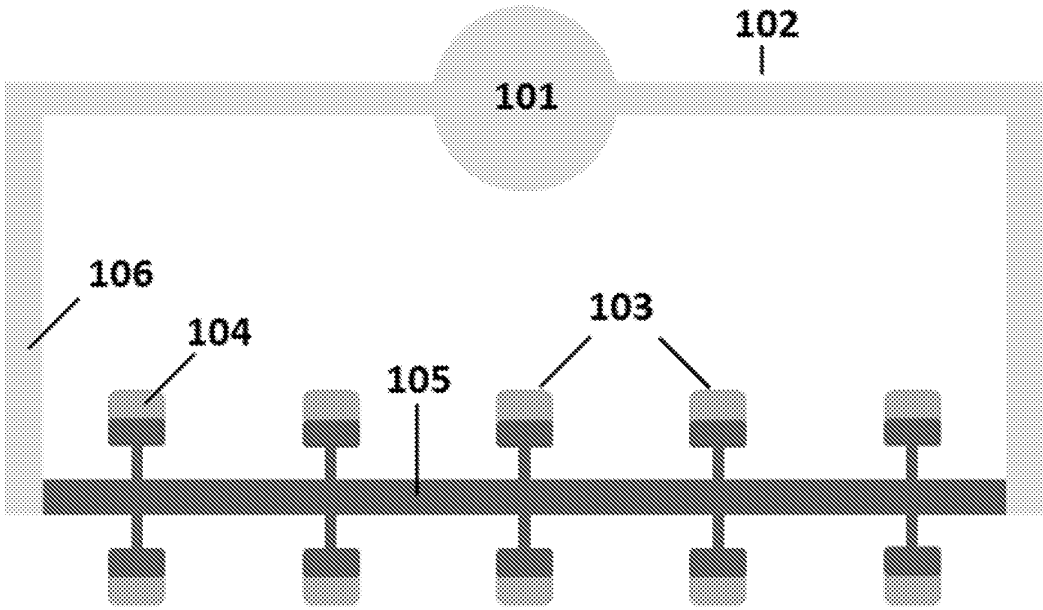


FIG. 1D

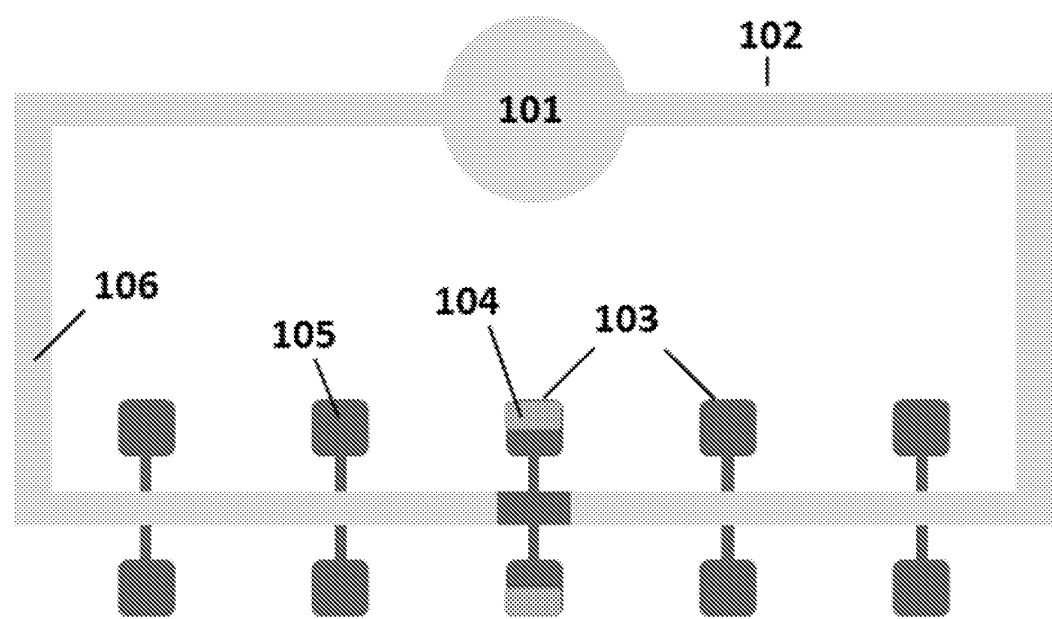


FIG. 1E

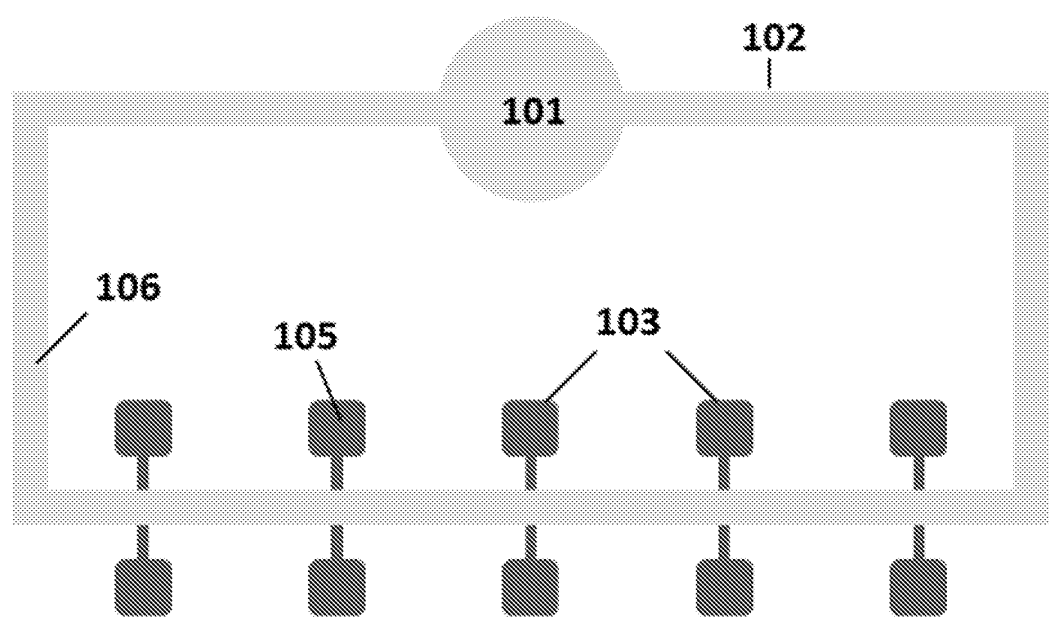
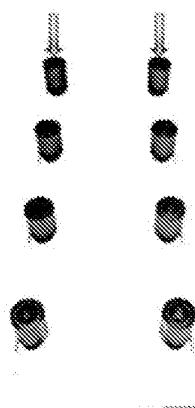
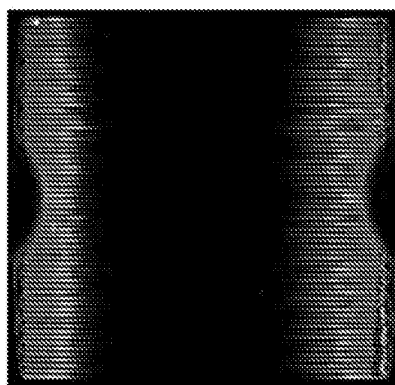


FIG. 1F

Input sample and
oil into both
inlet/outlet



Pressurize both inlet/outlet
to load in reagents



Continue and fill from both
side of the array

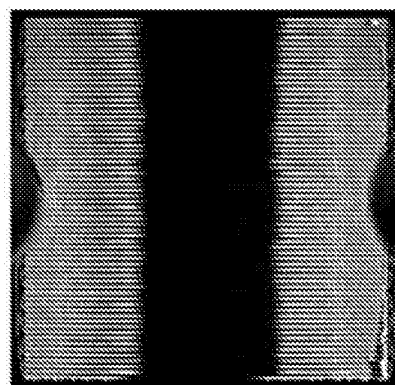
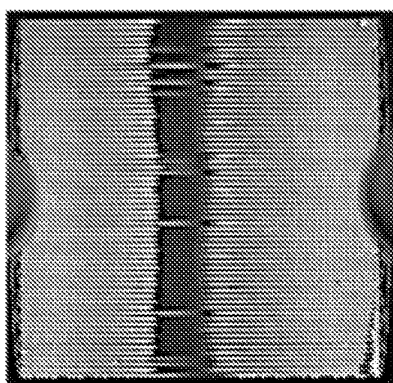


FIG. 2A

FIG. 2B

FIG. 2C

Continue and fill from both
side of the array



Complete loading and
digitization once oil fills the
channels

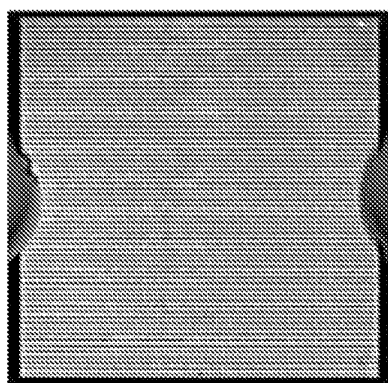
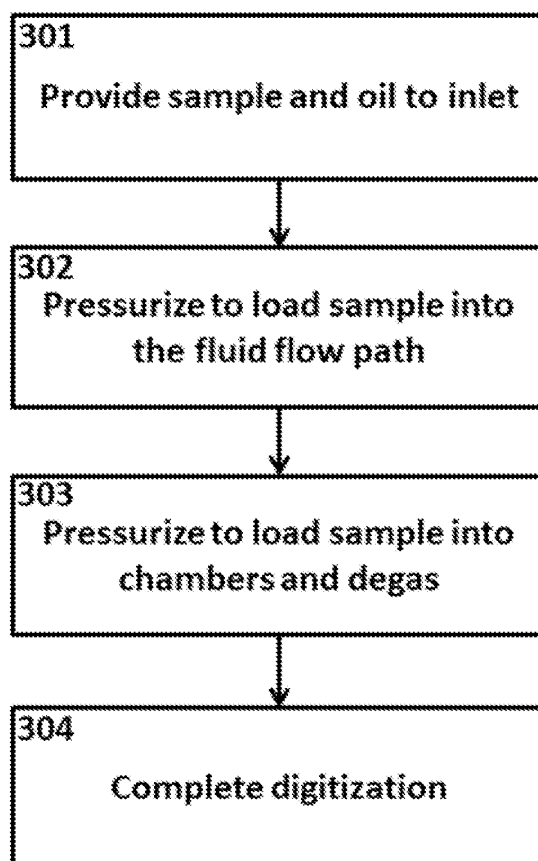


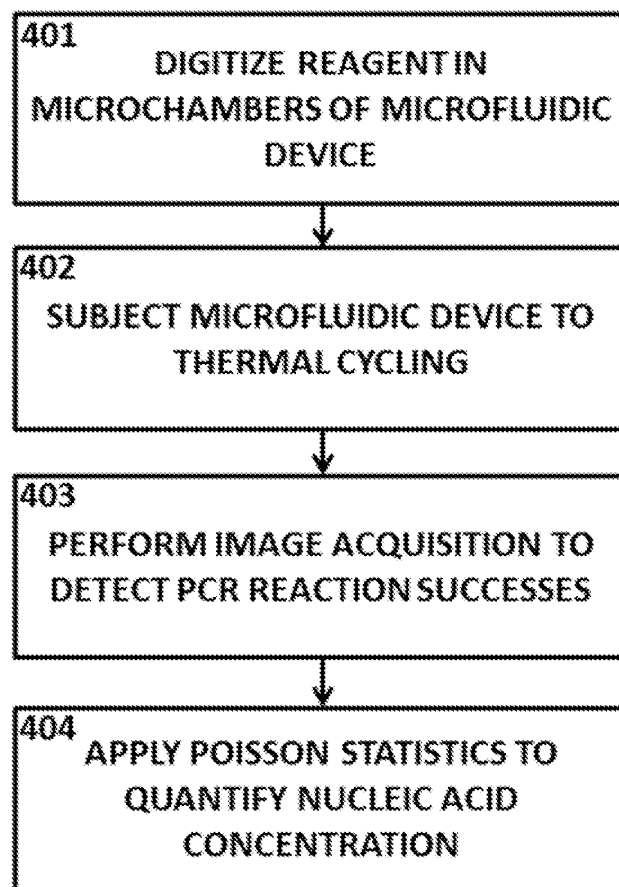
FIG. 2D

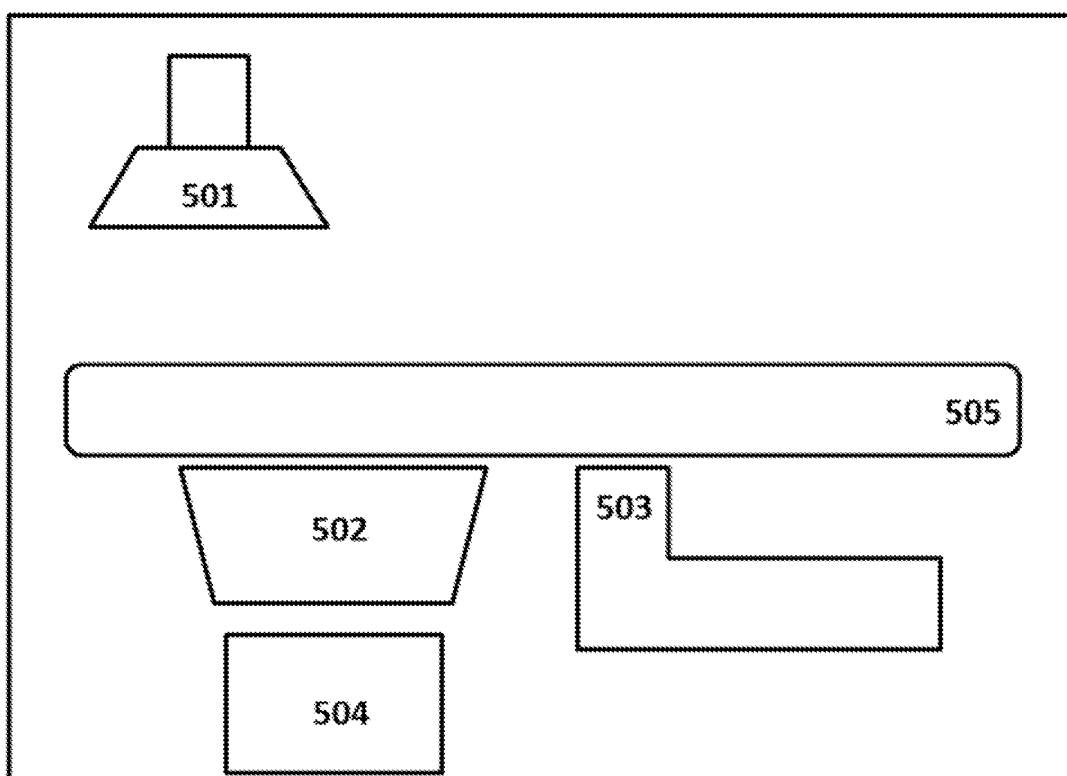
FIG. 2E

5/13

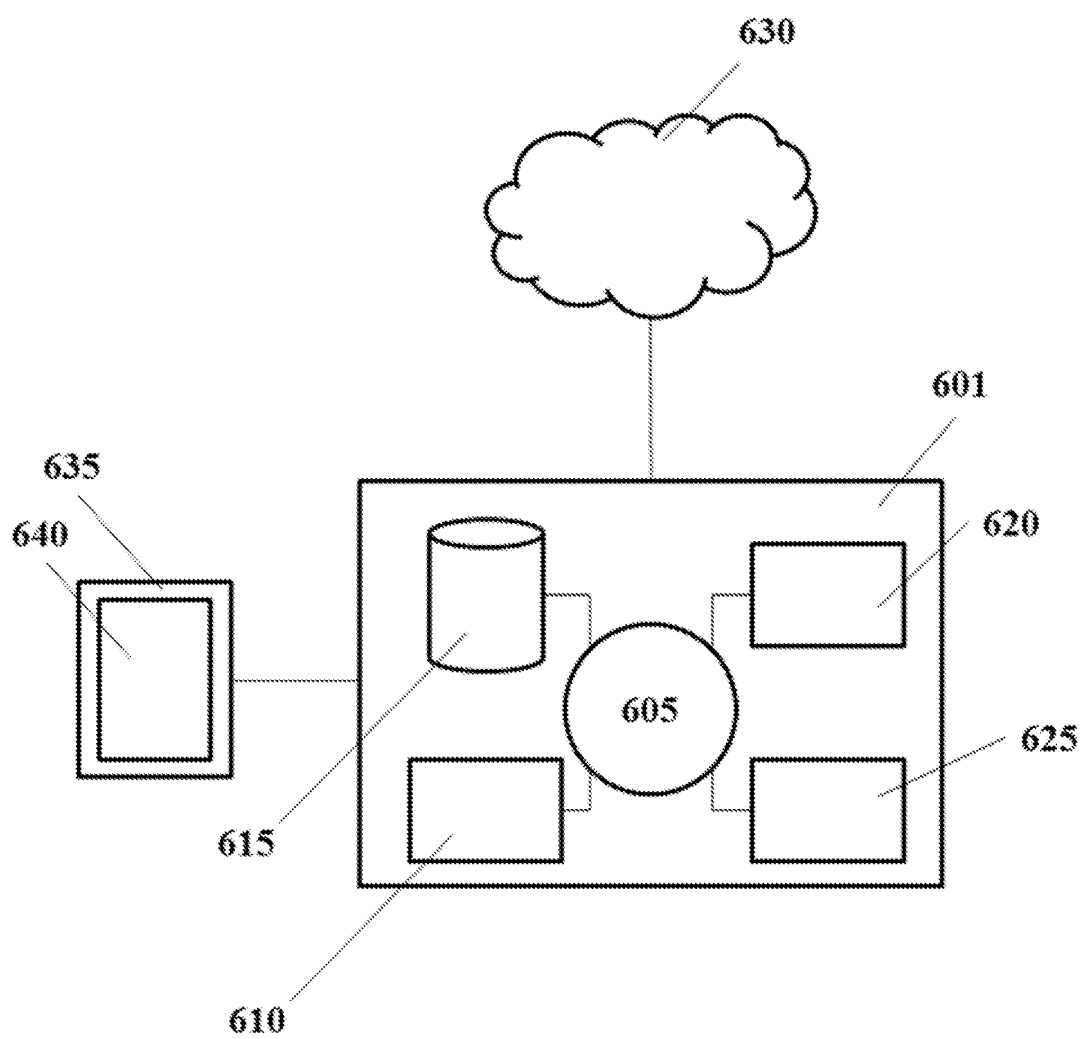
*FIG. 3*

6/13

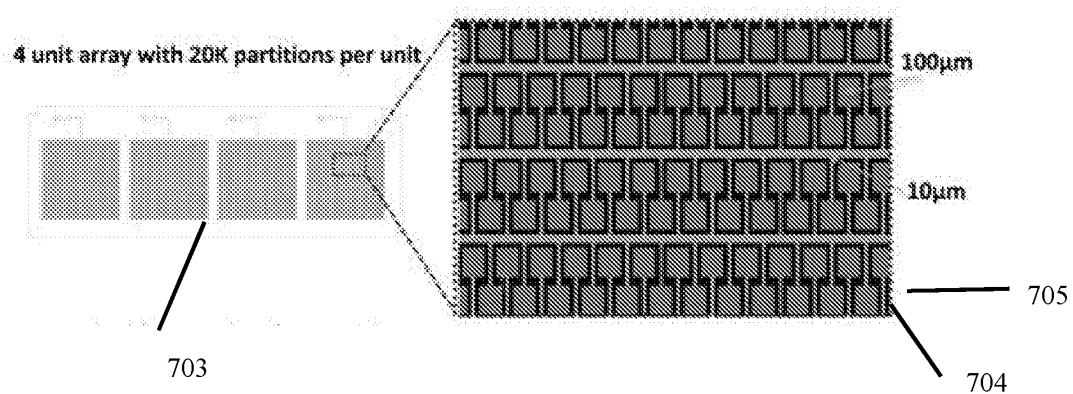
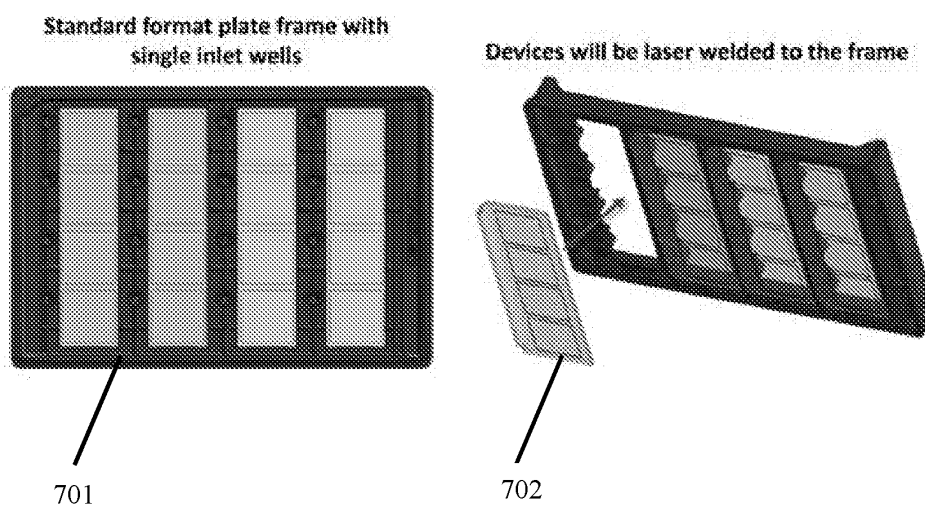
*FIG. 4*

*FIG. 5*

8/13

**FIG. 6**

9/13

**FIG. 7A****FIG. 7B**

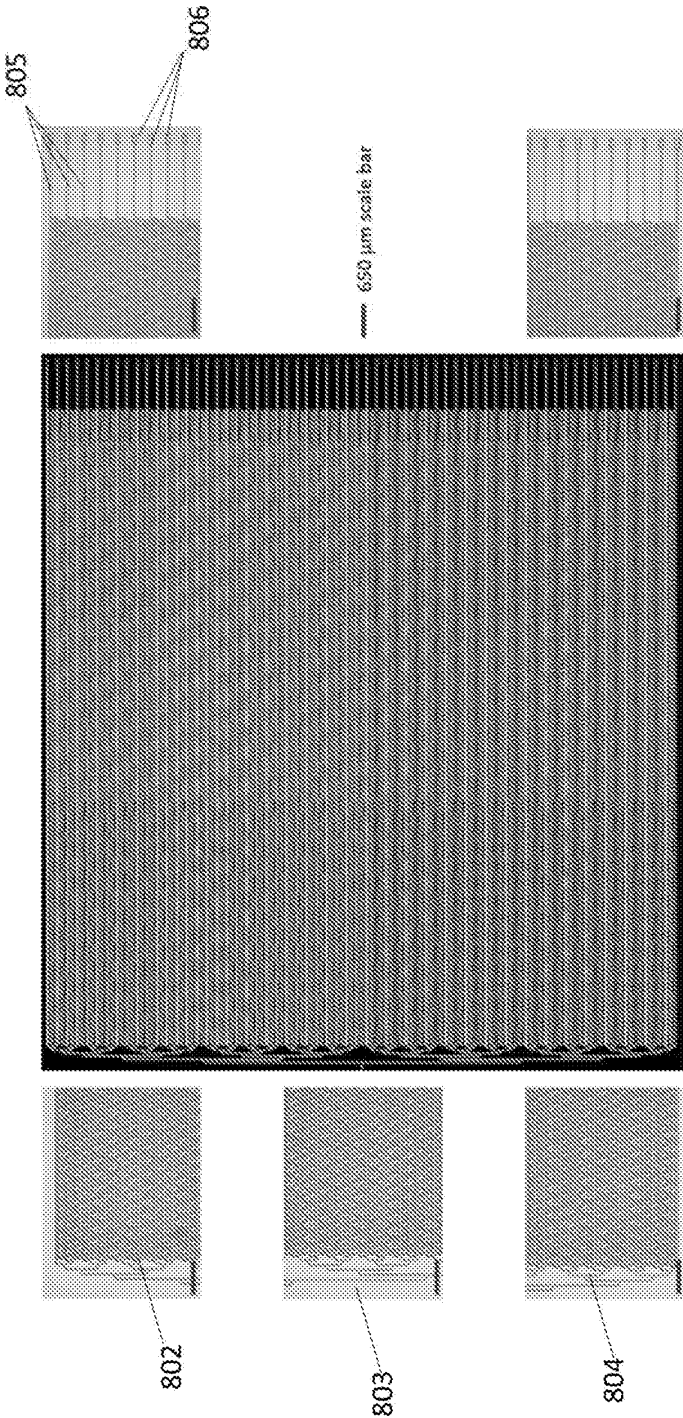
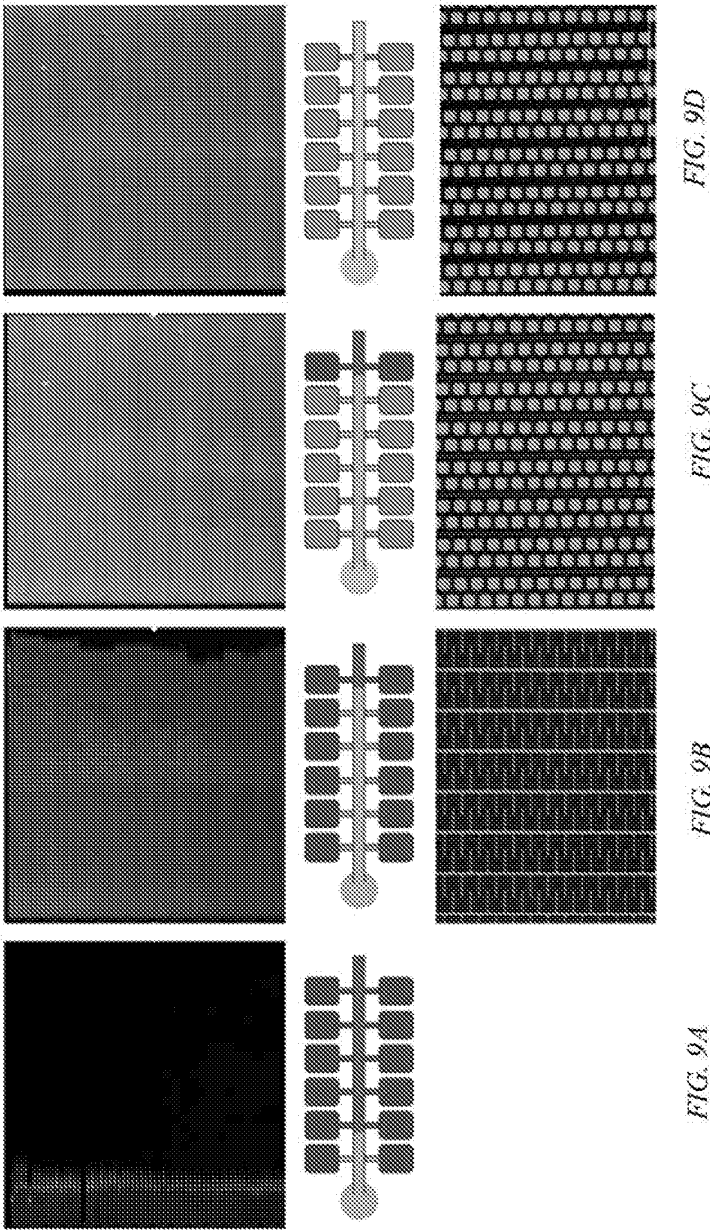


FIG. 8



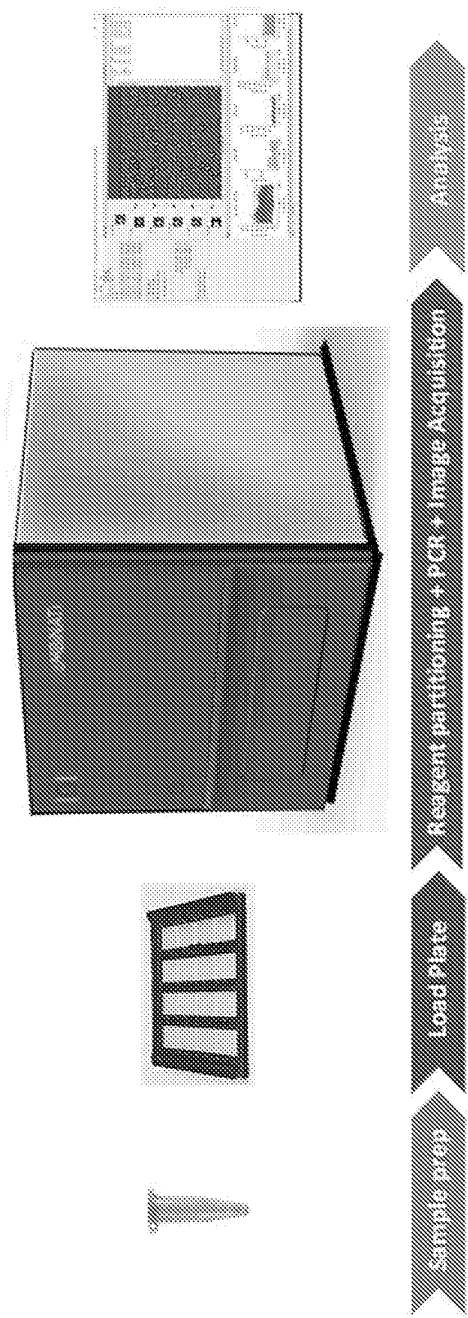


FIG. 10

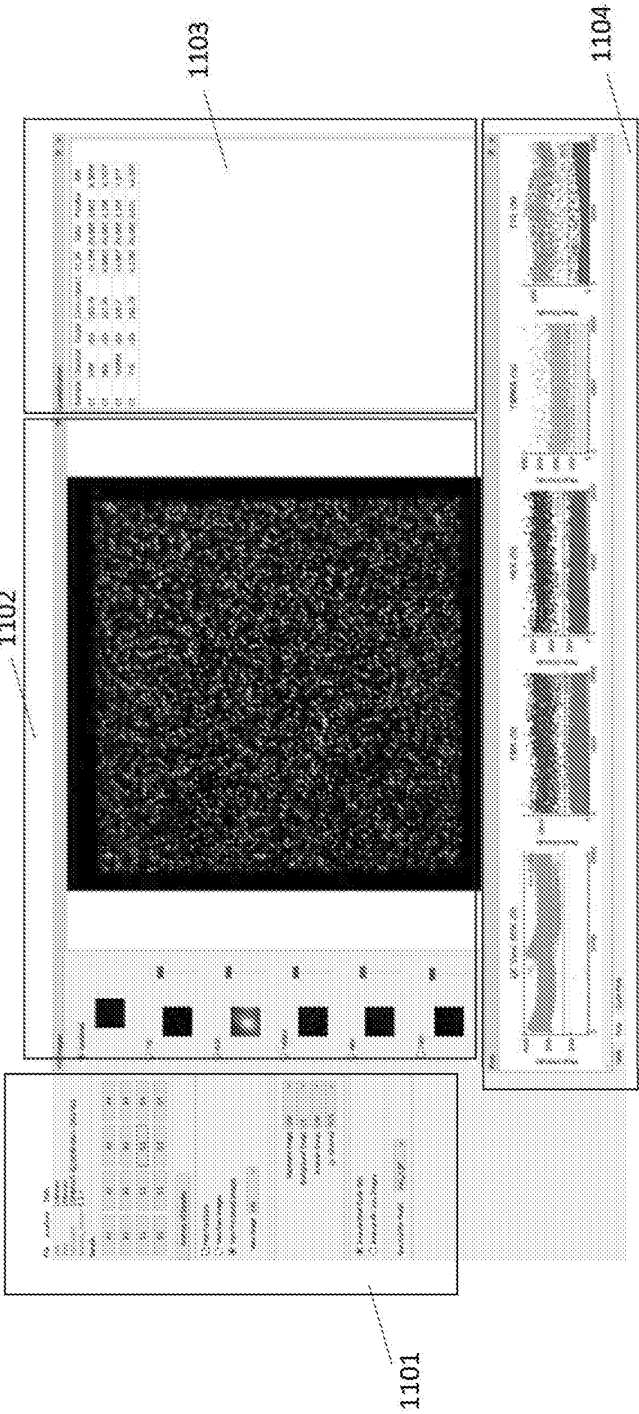


FIG. 11