

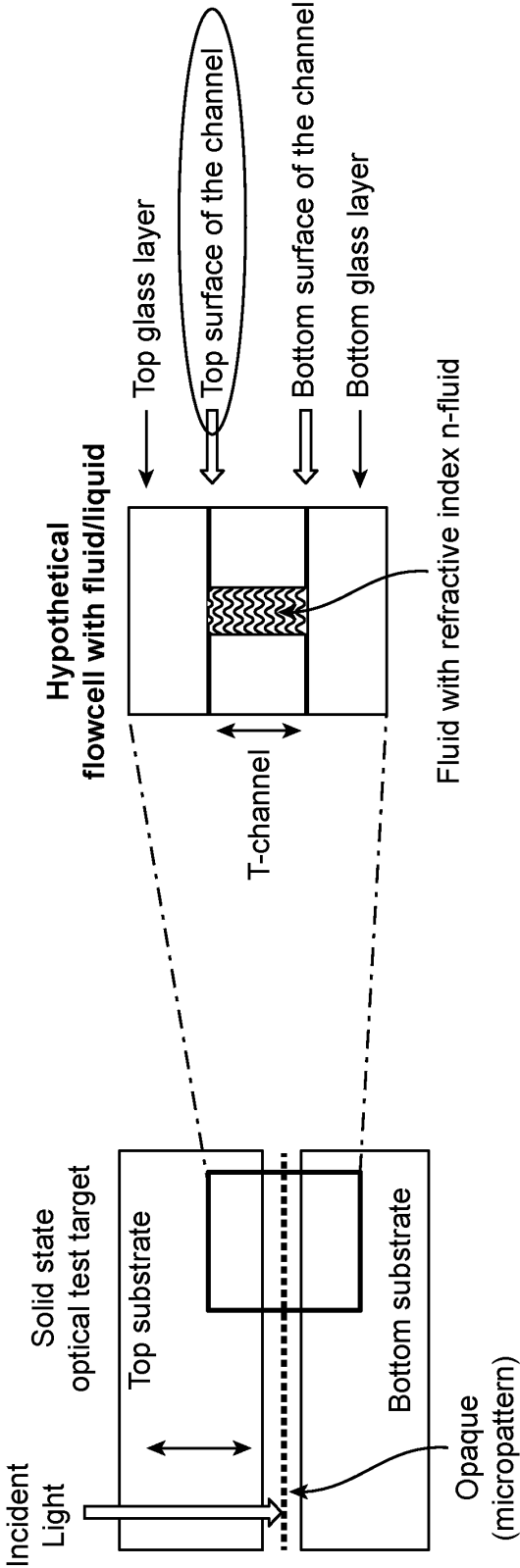


FIG. 1

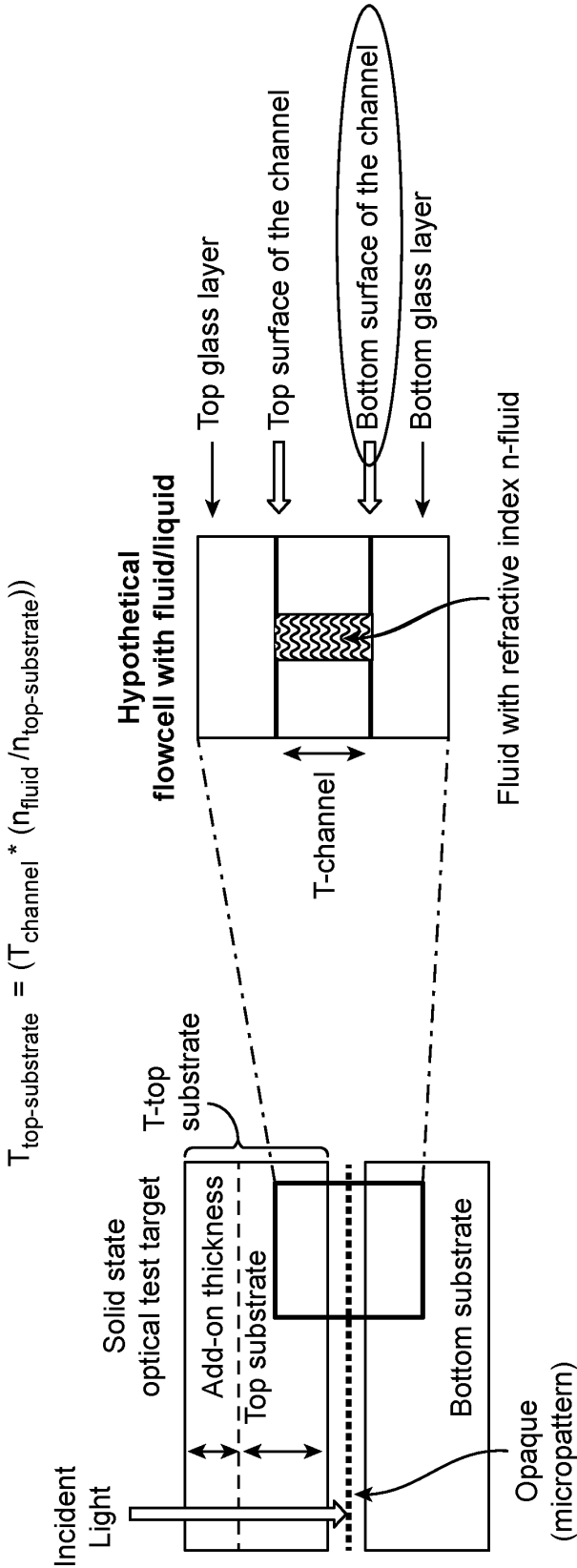


FIG. 2

Solid state optical test target with exchangeable top substrate

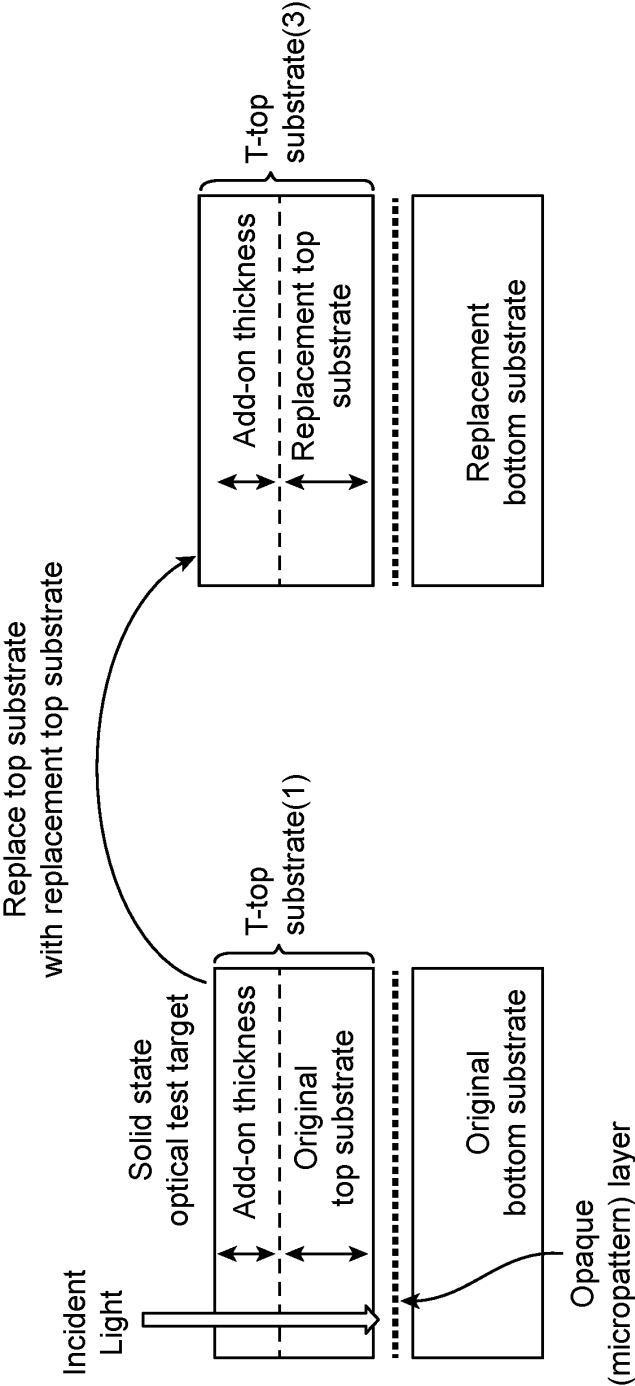


FIG. 3

Solid state optical test target with fluorescent dye layer(s)

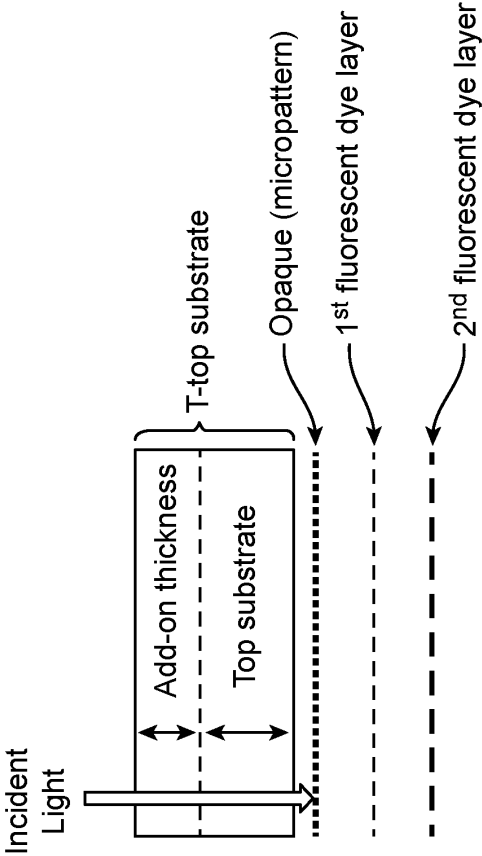


FIG. 4

Adaptive solid-state optical test target with bottom glass substrate

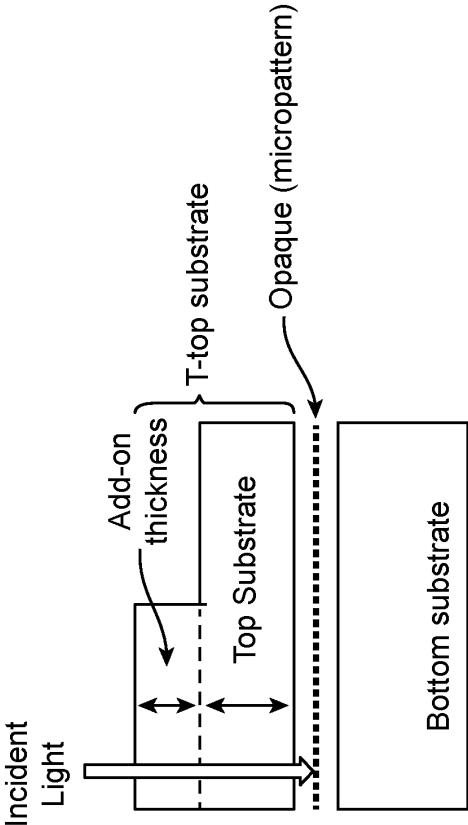


FIG. 5A

Adaptive solid-state optical test target with fluorescent dye layer(s)

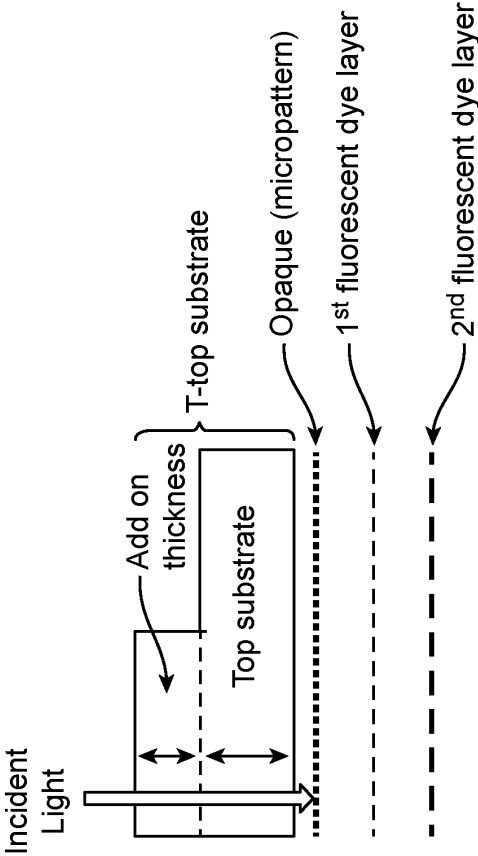


FIG. 5B

Solid state optical test target with fluorescent microscope slide

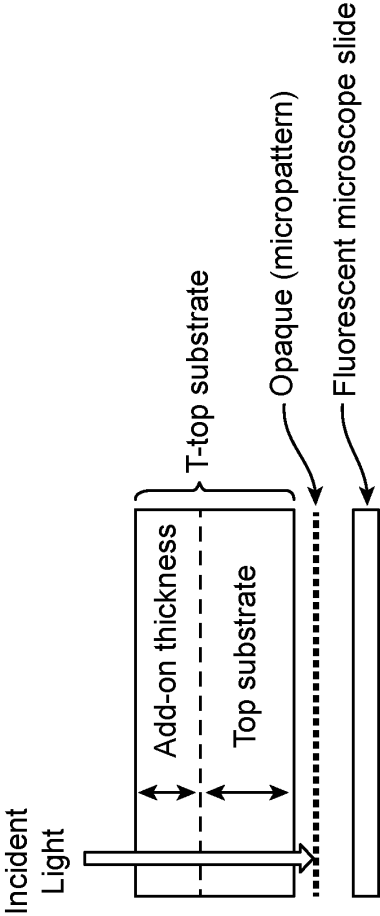


FIG. 6

Solid state optical test target with LED light

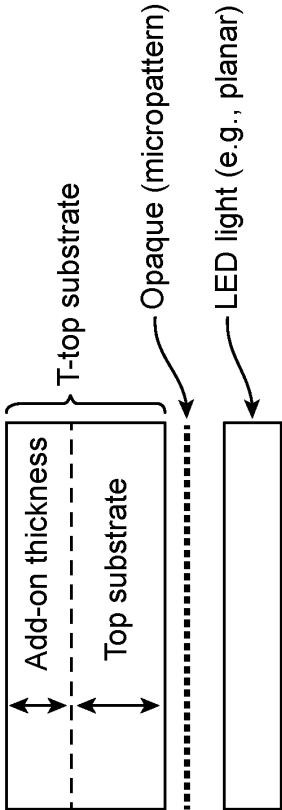
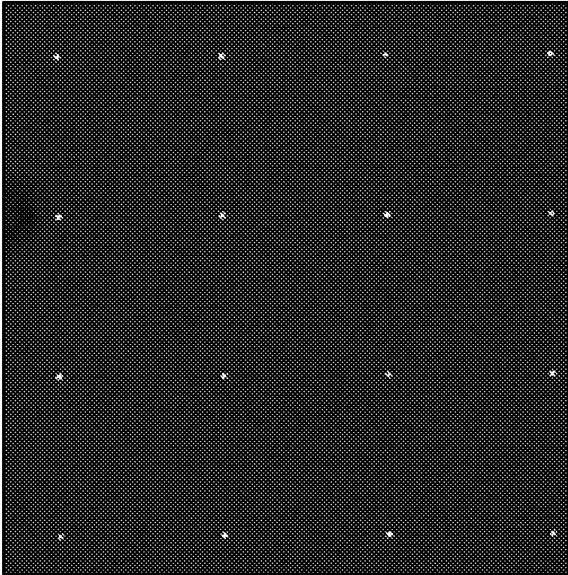


FIG. 7

Green ~550nm



Red ~700nm

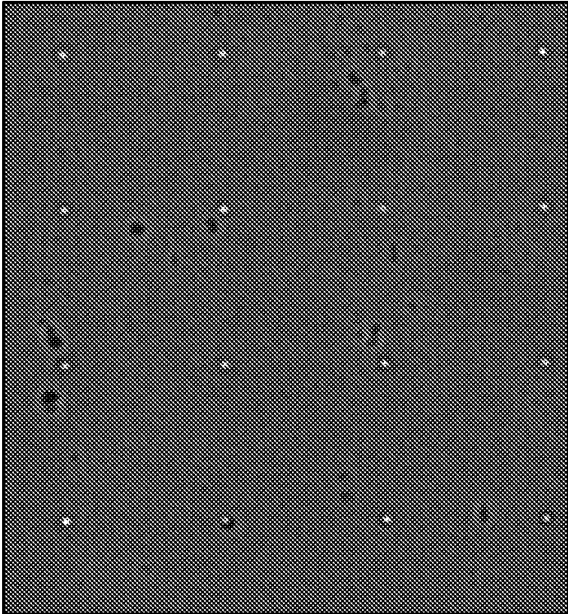


FIG. 8

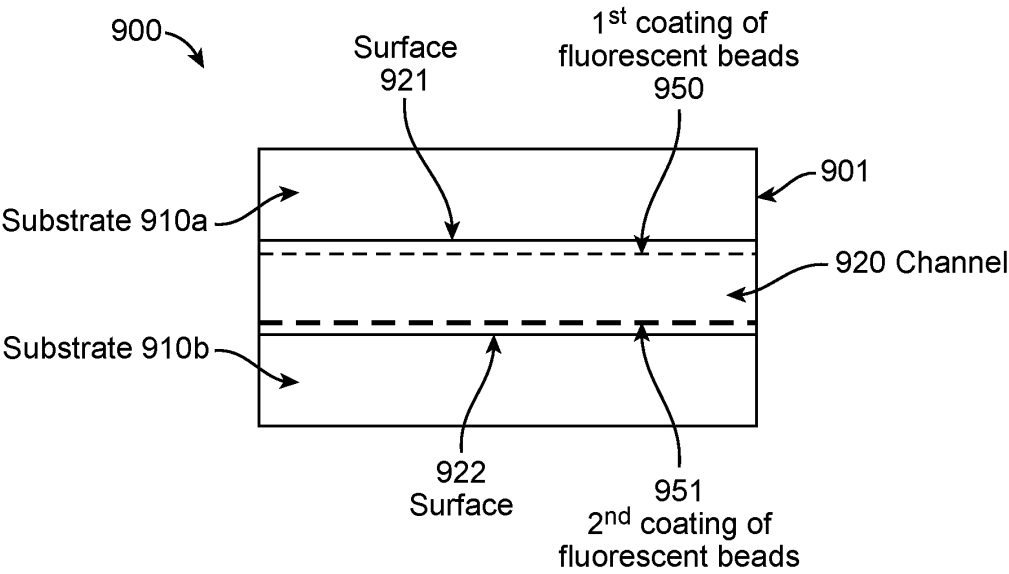


FIG. 9

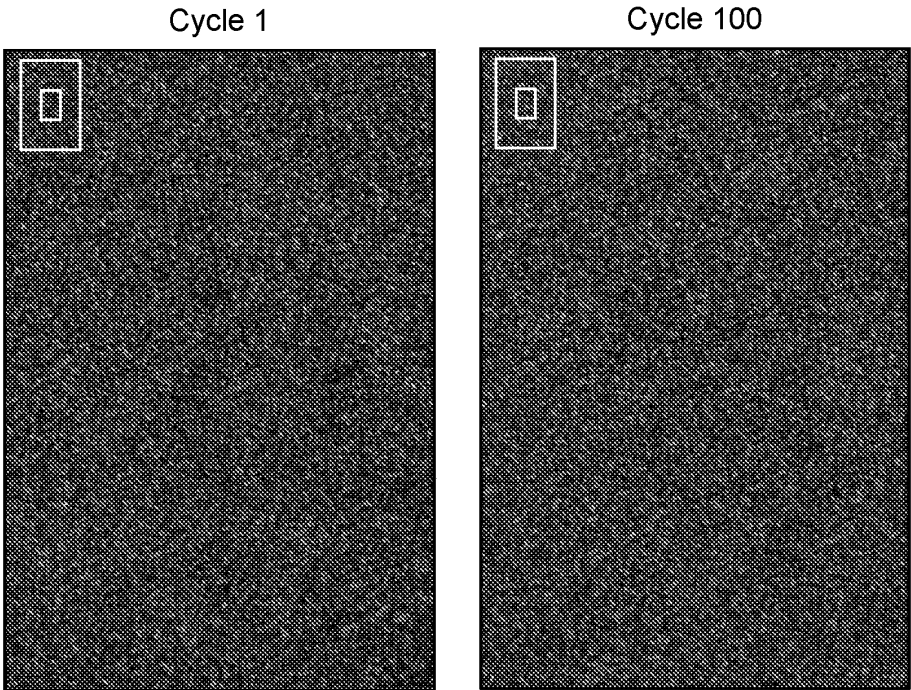


FIG. 10

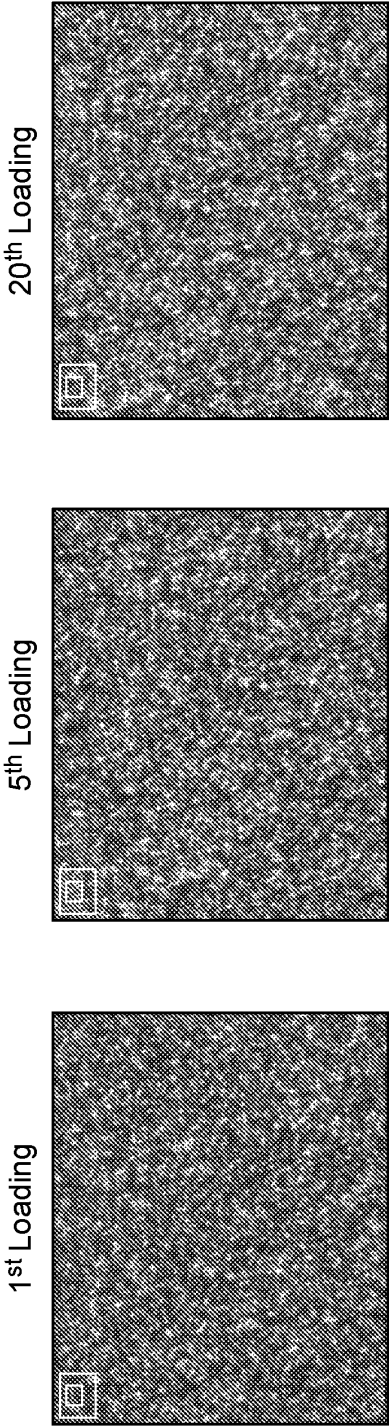
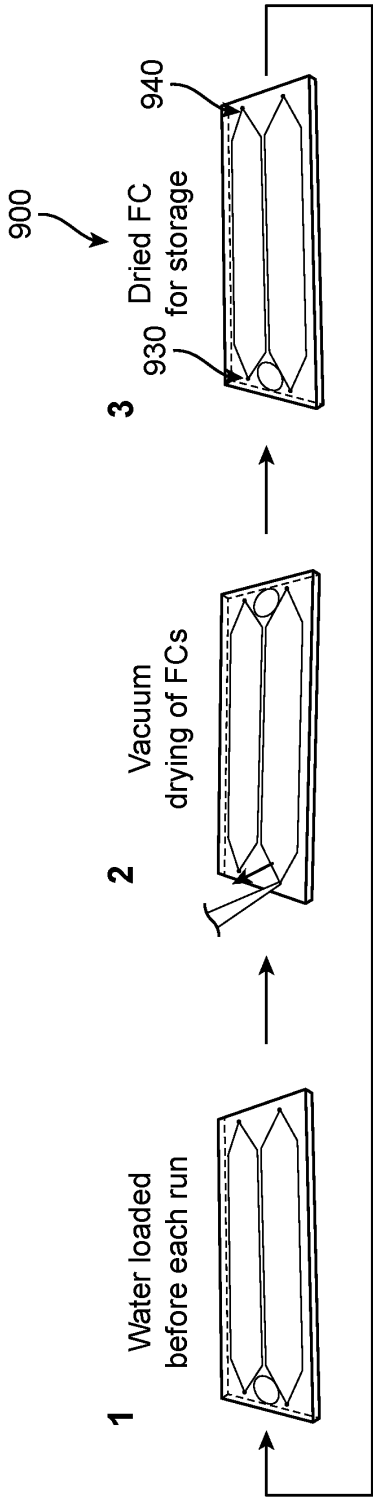


FIG. 11

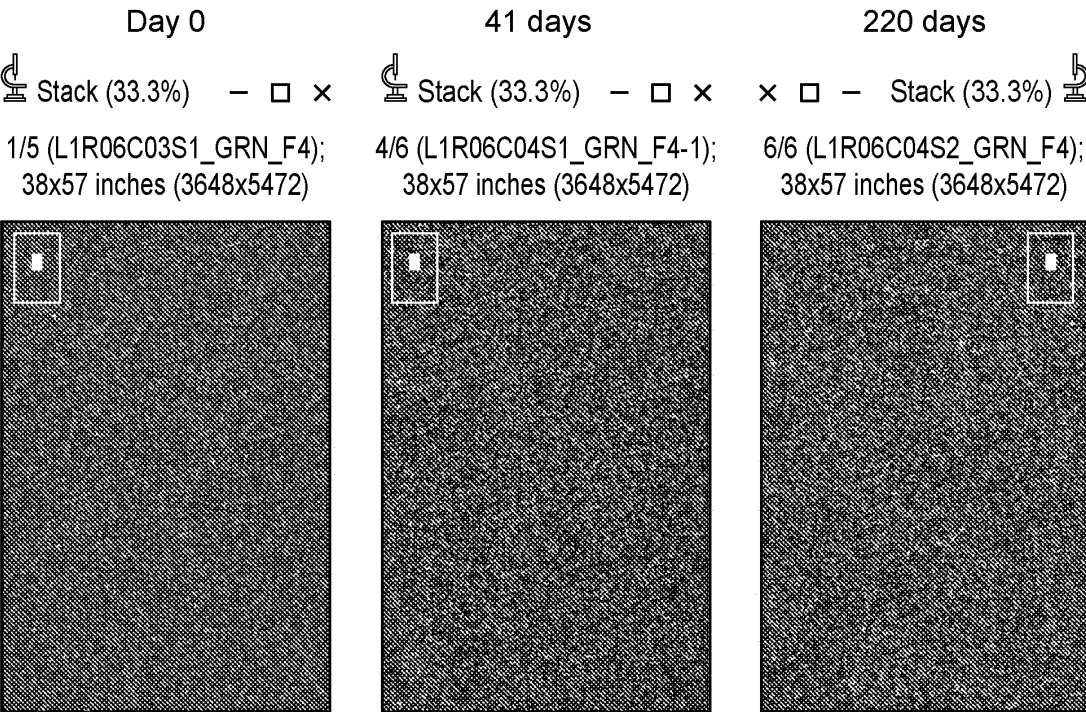


FIG. 12

30-min at 100°C

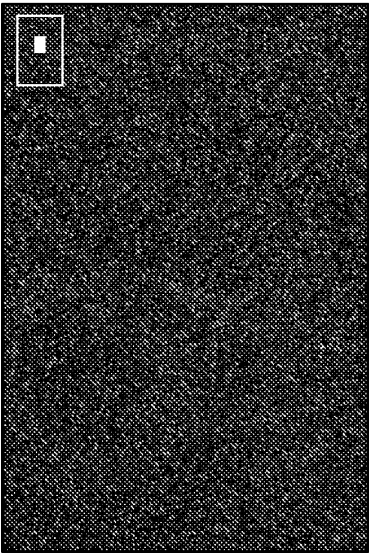


FIG. 13

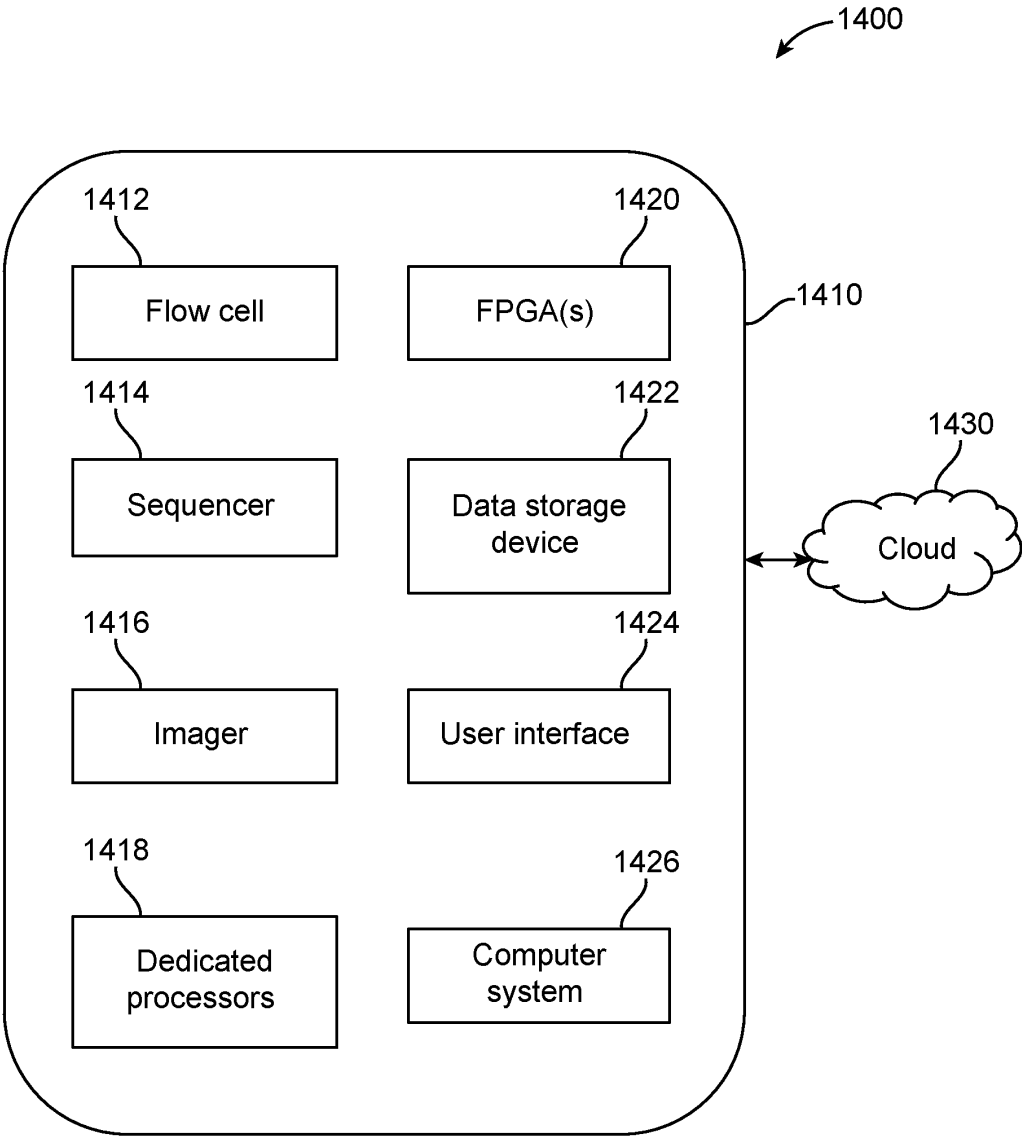


FIG. 14

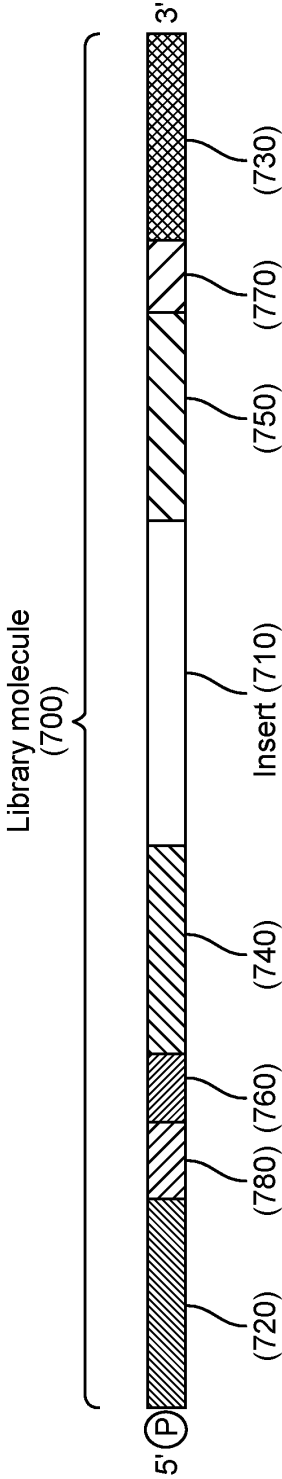


FIG. 15

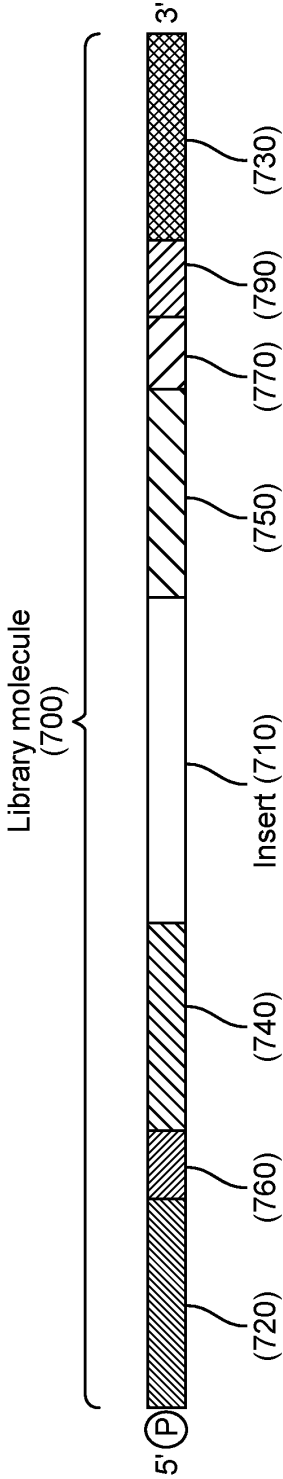
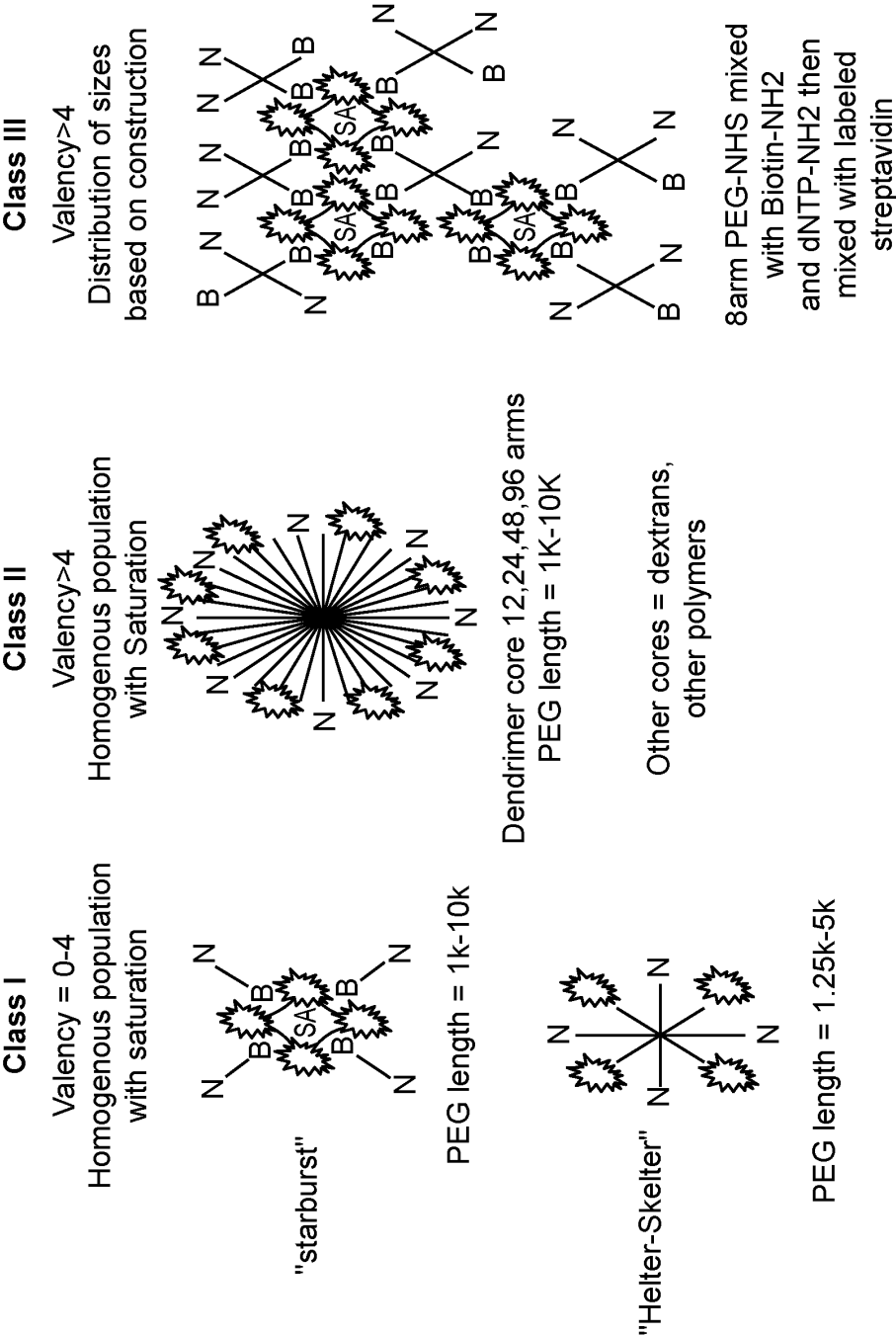


FIG. 16



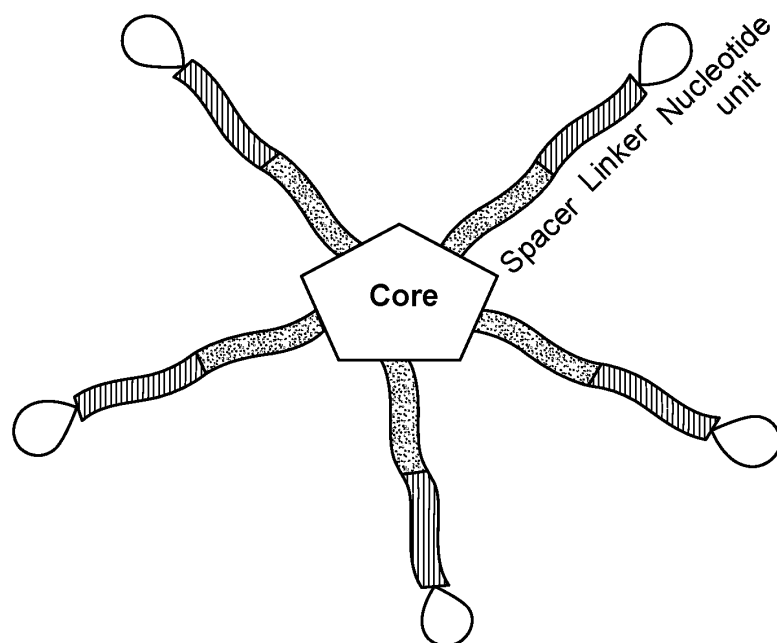


FIG. 18

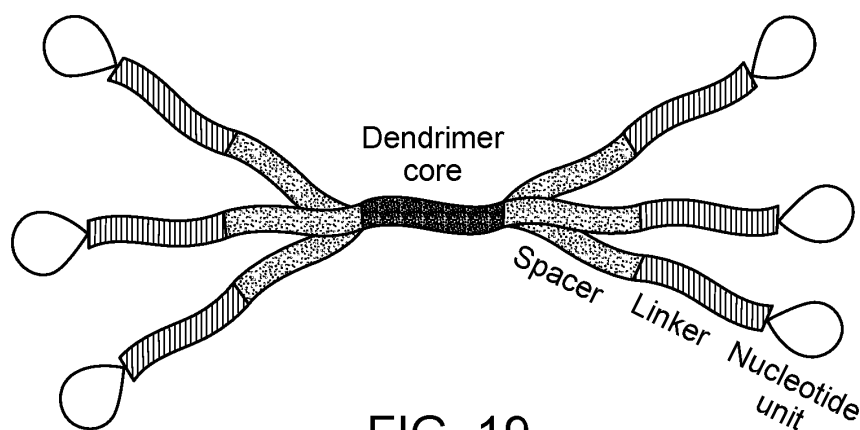


FIG. 19

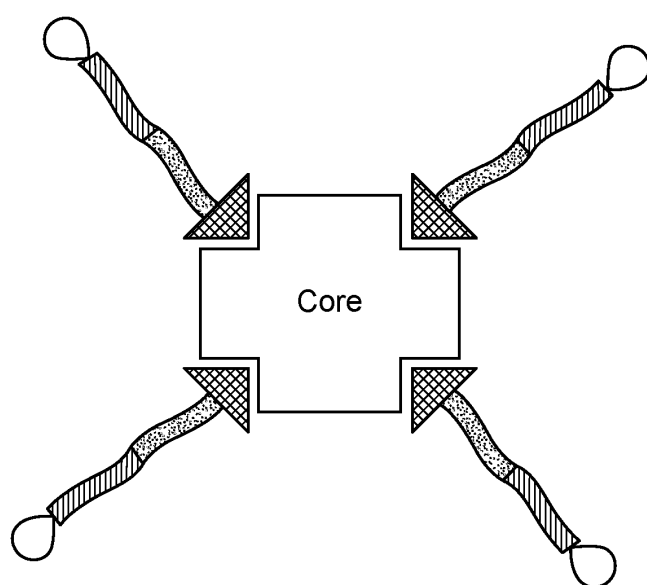


FIG. 20

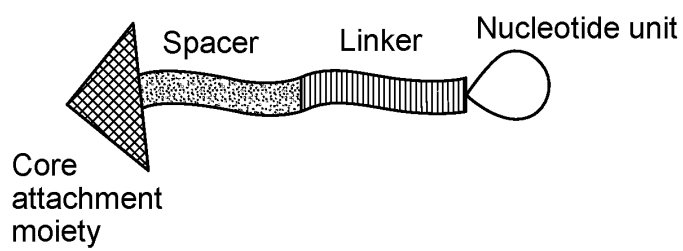
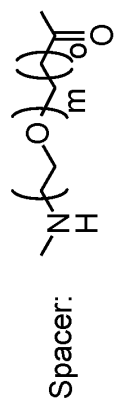


FIG. 21

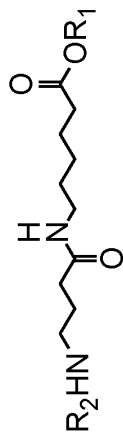


Linkers:

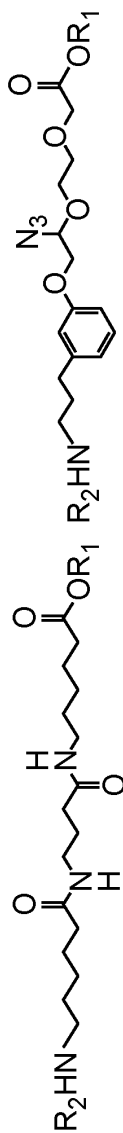
11 atom Linker:



16 atom Linker:

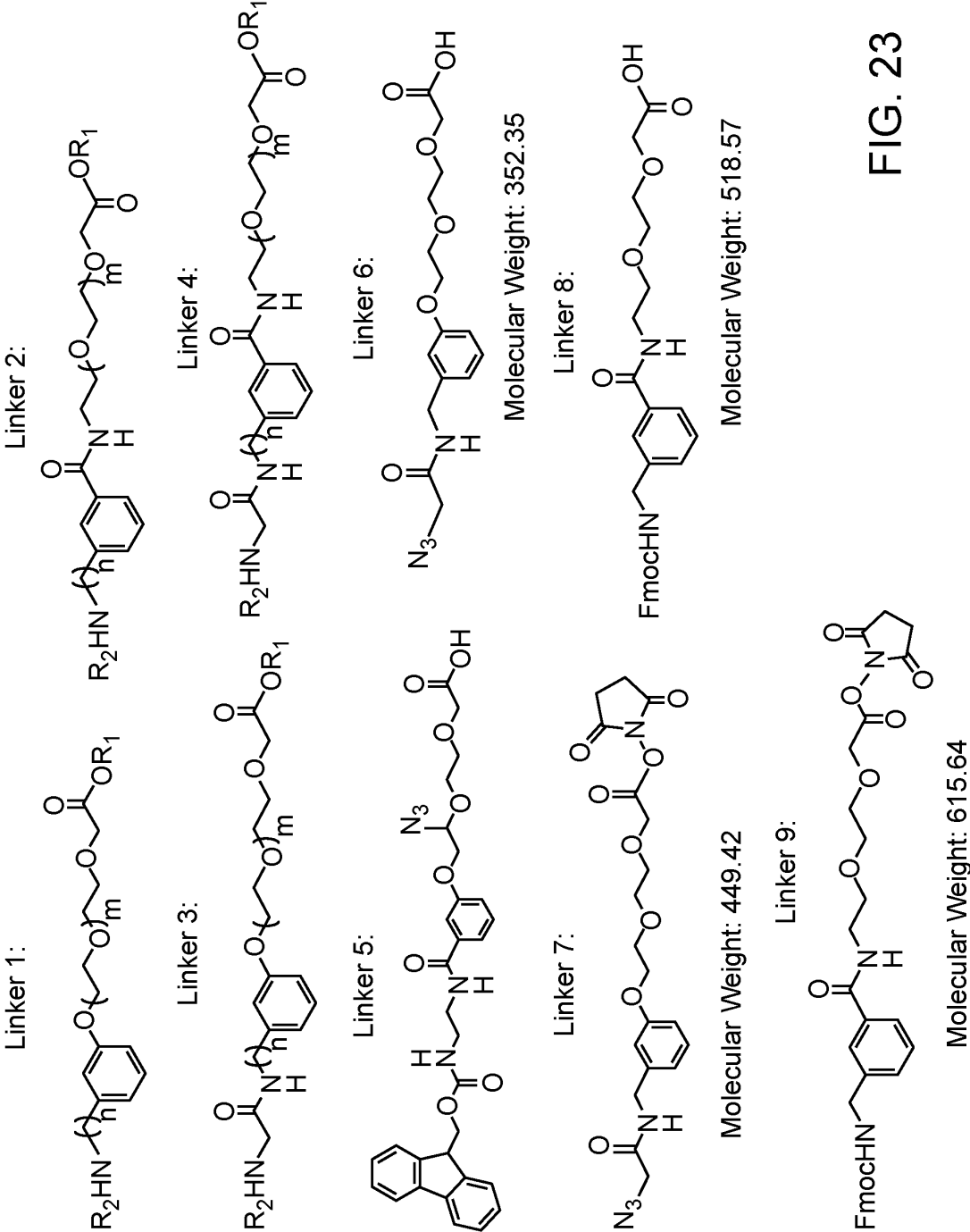


23 atom Linker:



N3 Linker:

FIG. 22



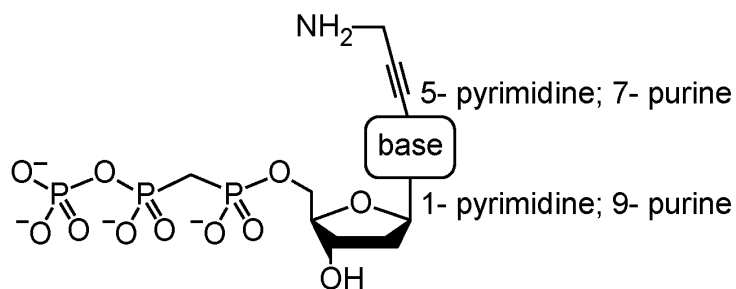
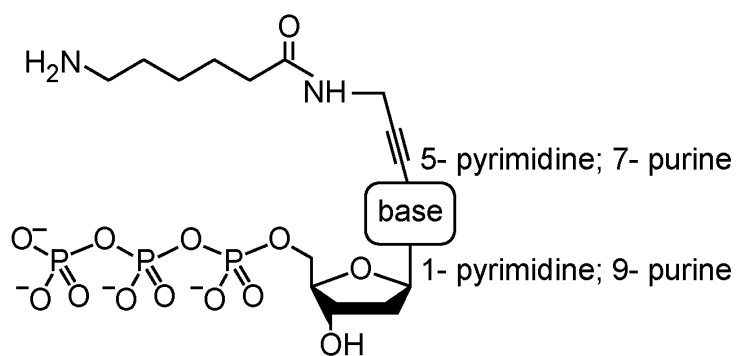
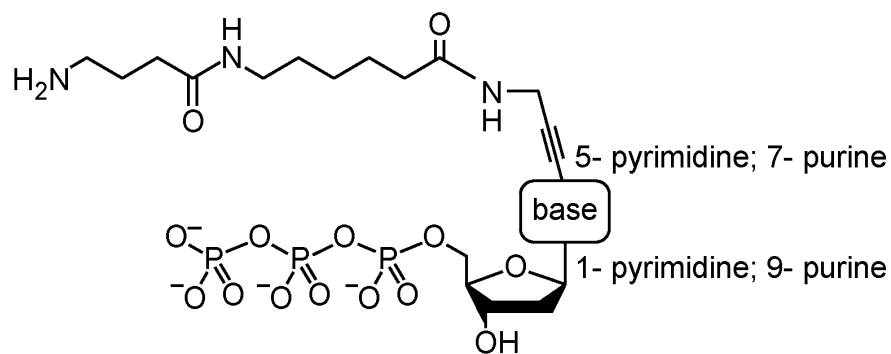
dNTP-PA-NH₂:**dNTP-PA-11 Atom Linker-NH₂:****dNTP-PA-16 Atom Linker-NH₂:**

FIG. 24

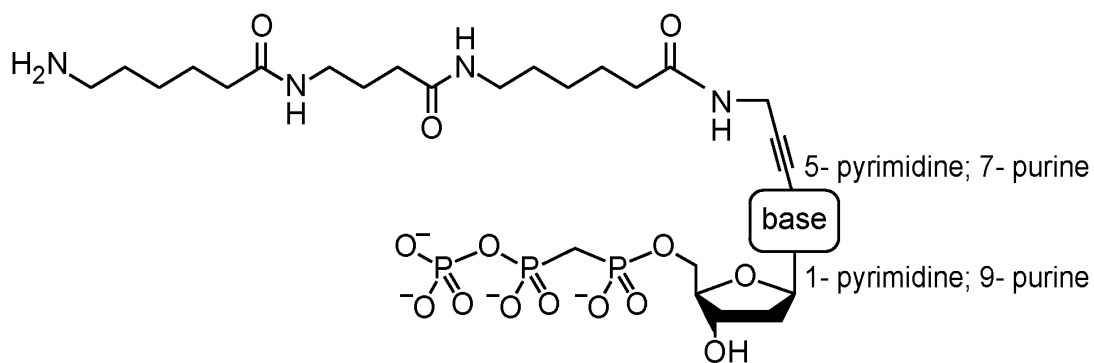
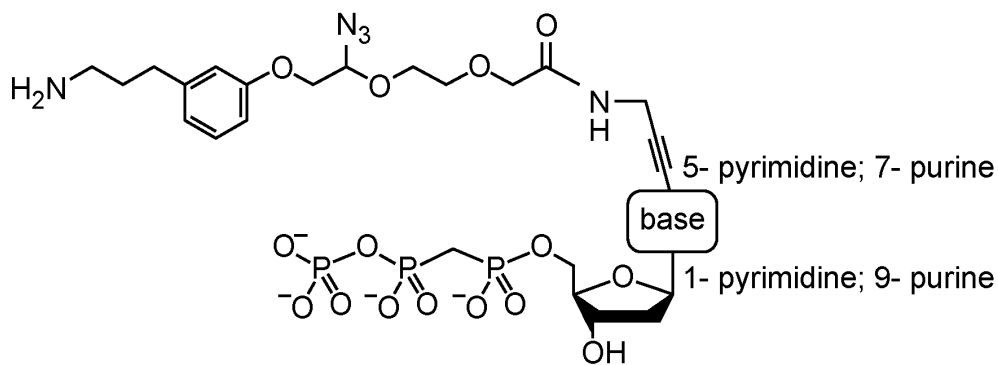
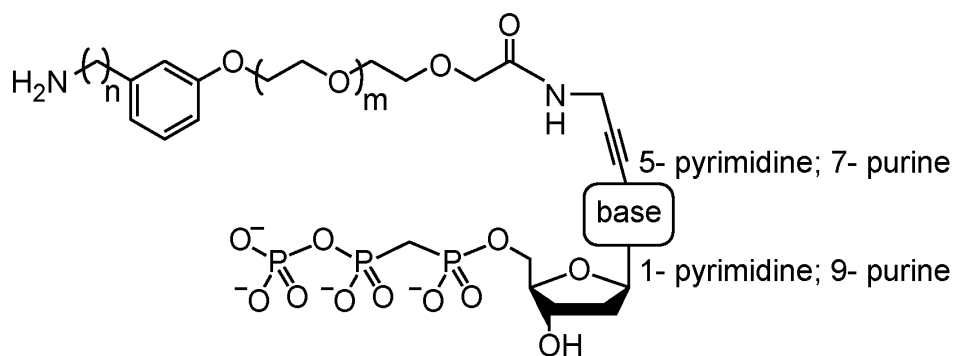
dNTP-PA-23 Atom Linker-NH₂:**dNTP-PA-N3 Linker-NH₂:****dNTP-PA-Linker 1-NH₂:**

FIG. 25

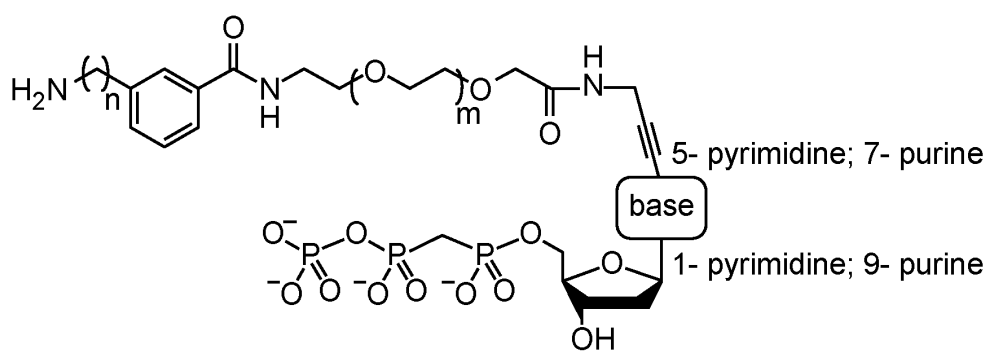
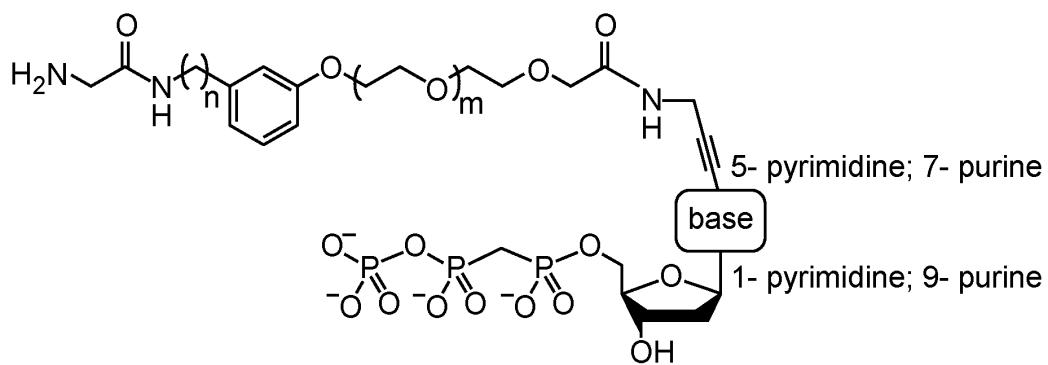
dNTP-PA-Linker 2-NH₂:**dNTP-PA-Linker 3-NH₂:**

FIG. 26

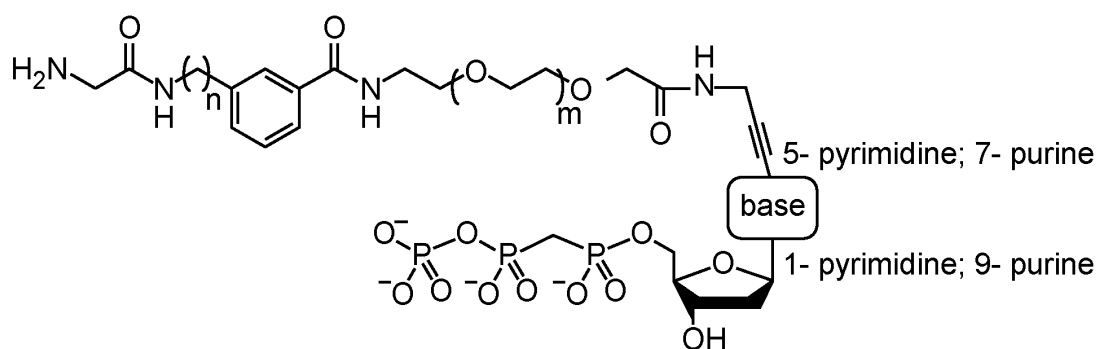
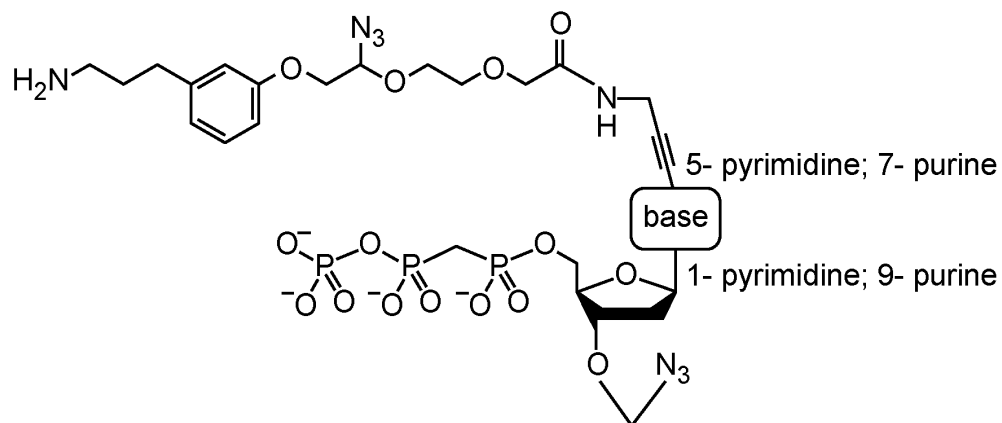
dNTP-PA-Linker 4-NH₂:**dNTP-PA-N3 Linker-NH₂:**

FIG. 27

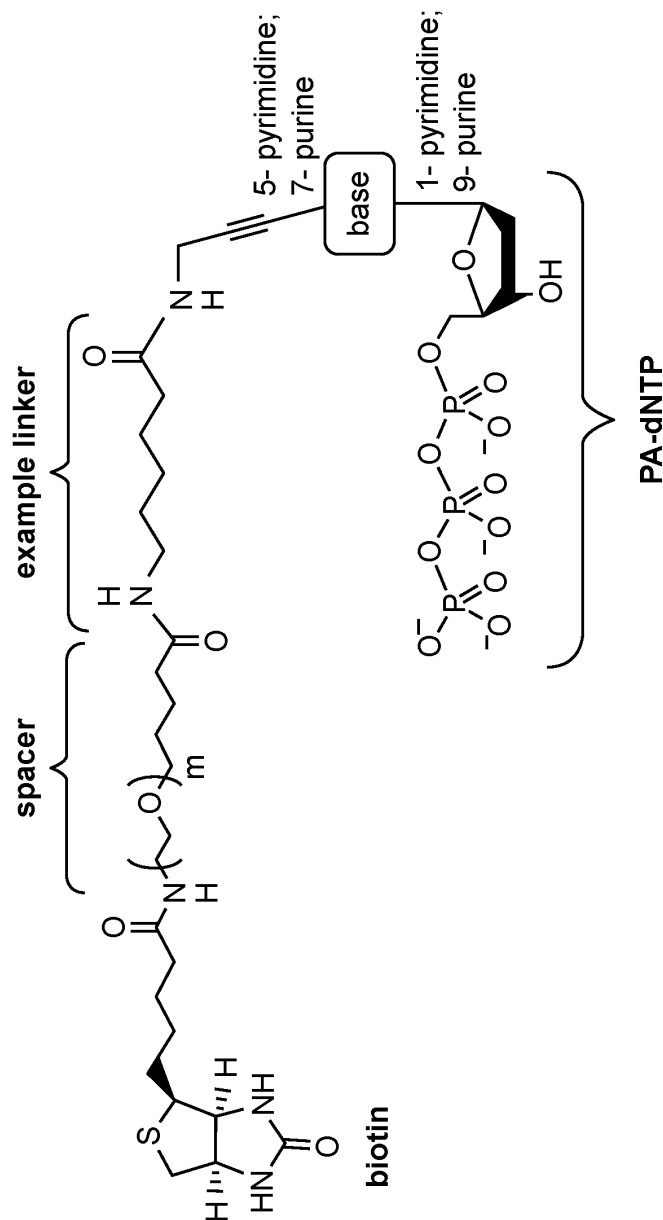


FIG. 28

