

General Transcriptomic Workflow

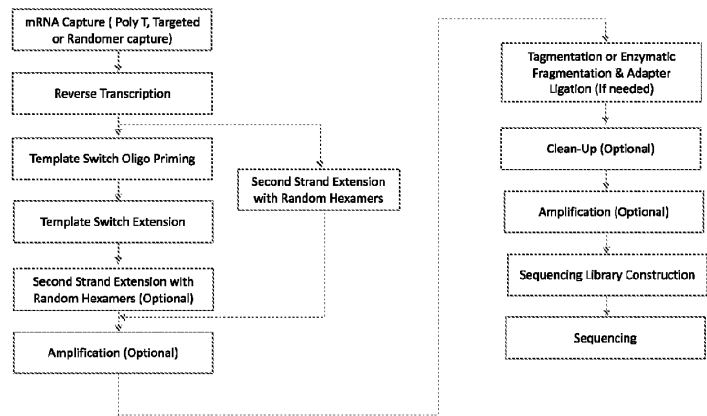


FIG. 1A

General Transcriptomic Workflow on Surface

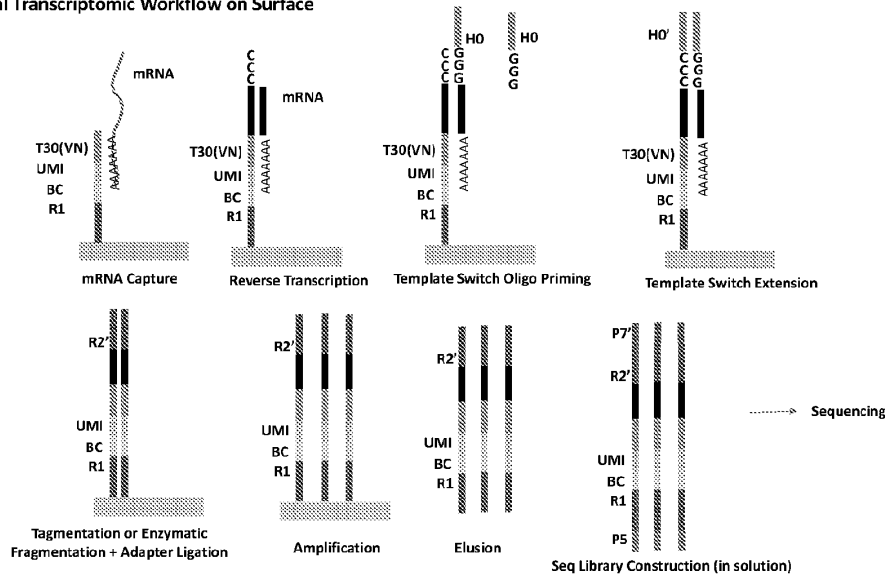


FIG. 1B

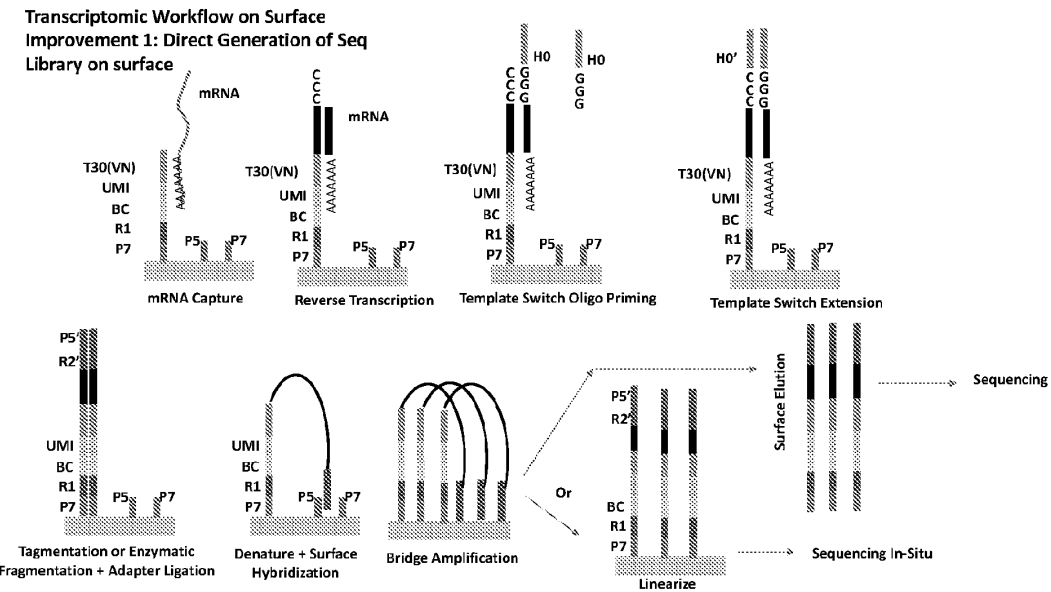


FIG. 2A

Distribution of Captured Nucleic Acid Molecules Without Diffusivity Modifier

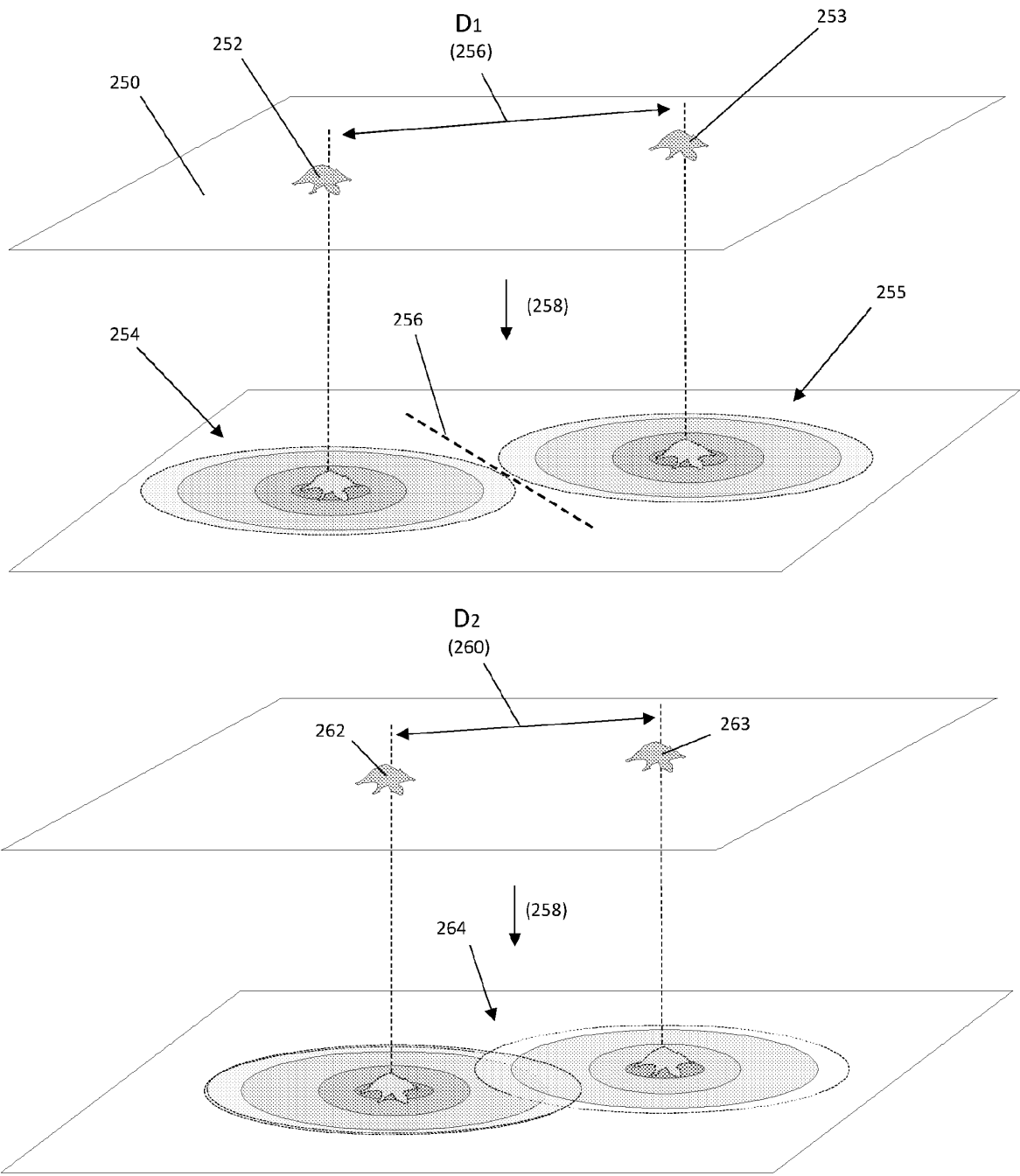


FIG. 2B

4/35

Distribution of Captured Nucleic Acid
Molecules With Diffusivity Modifier

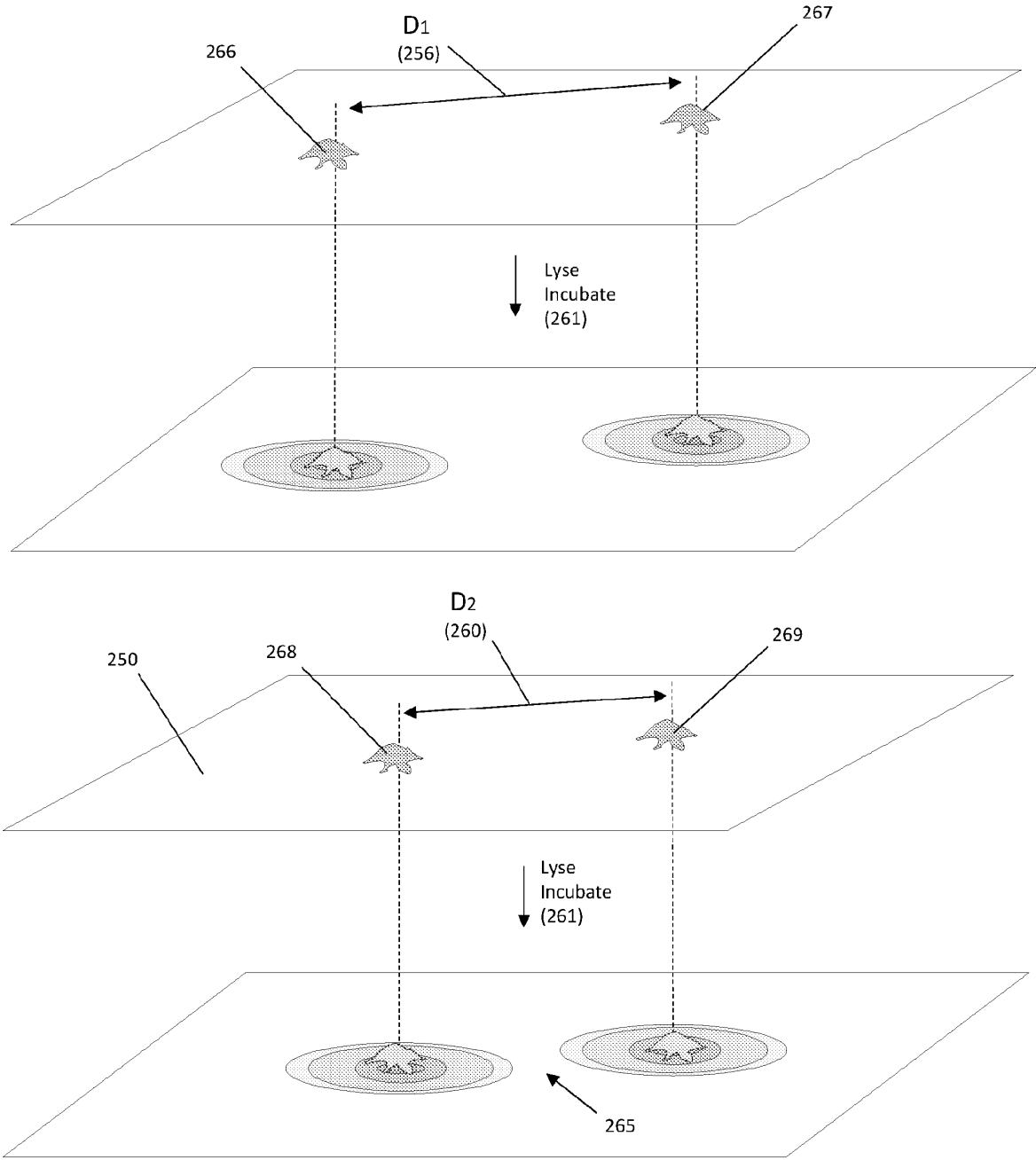


FIG. 2C

Gel layer over all or a portion of surface

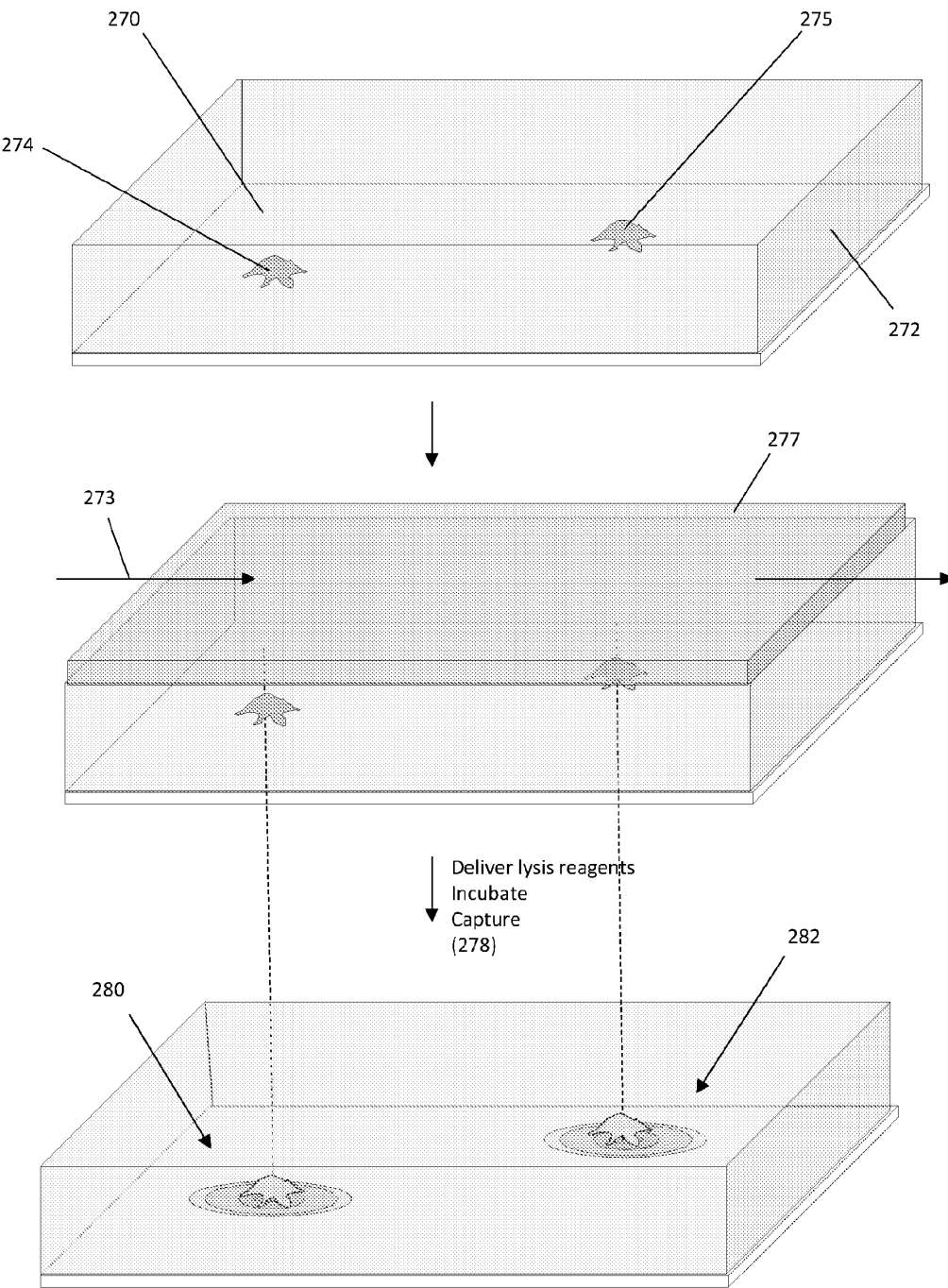


FIG. 2D

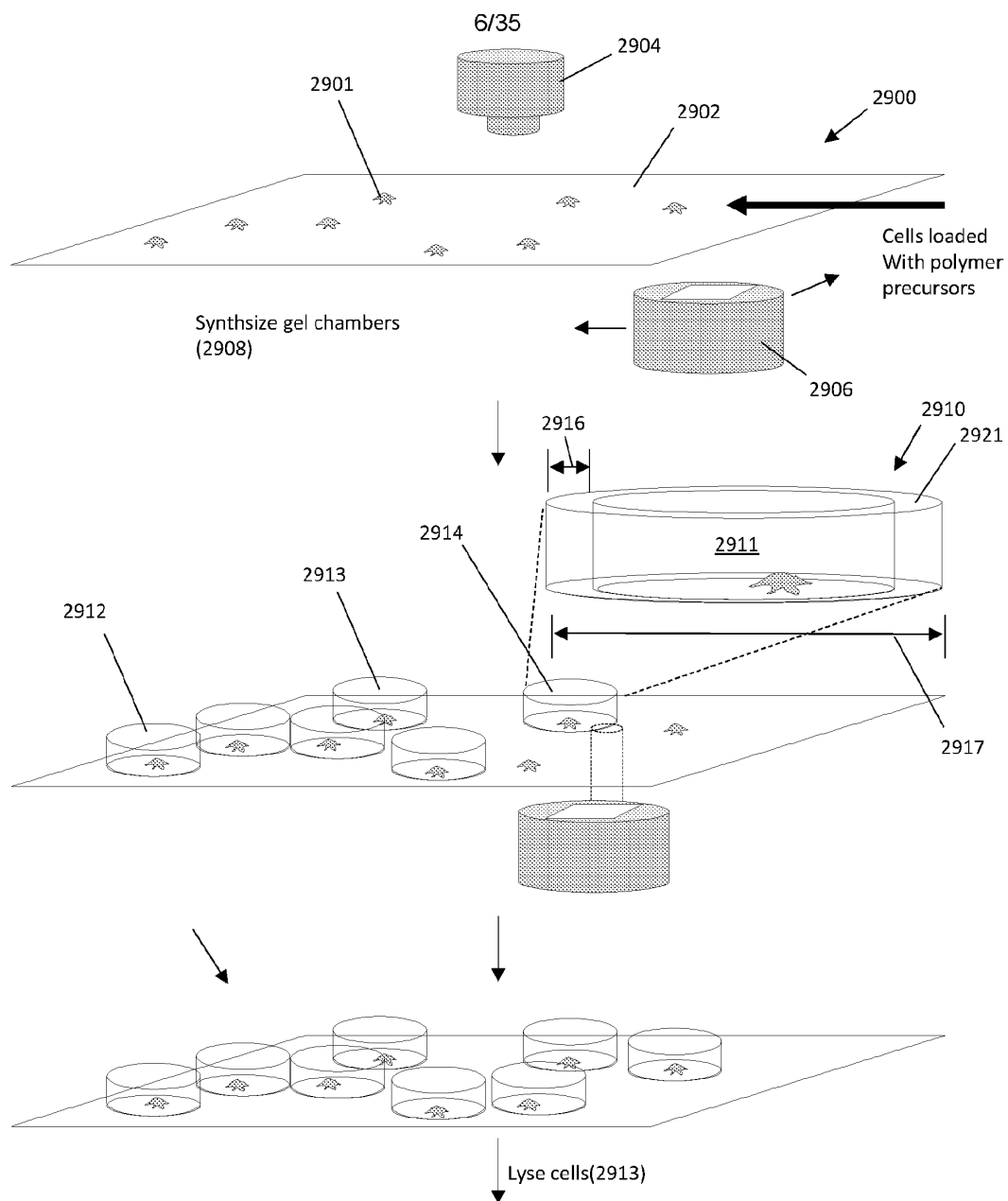


FIG. 2E

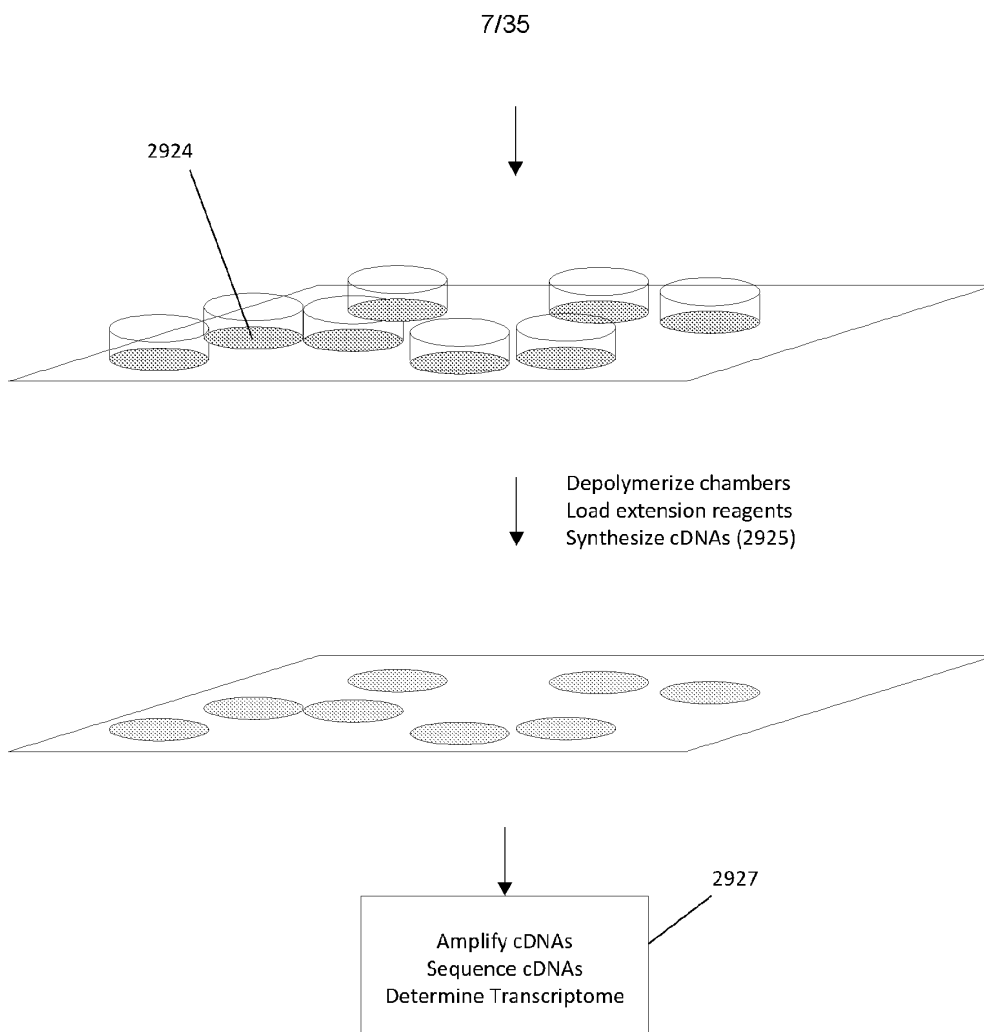
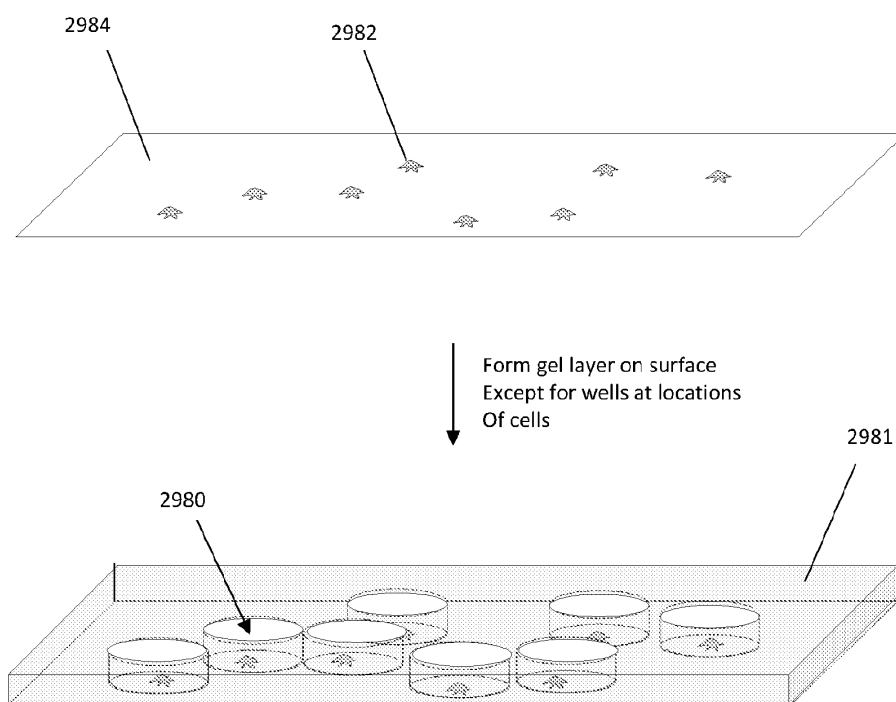
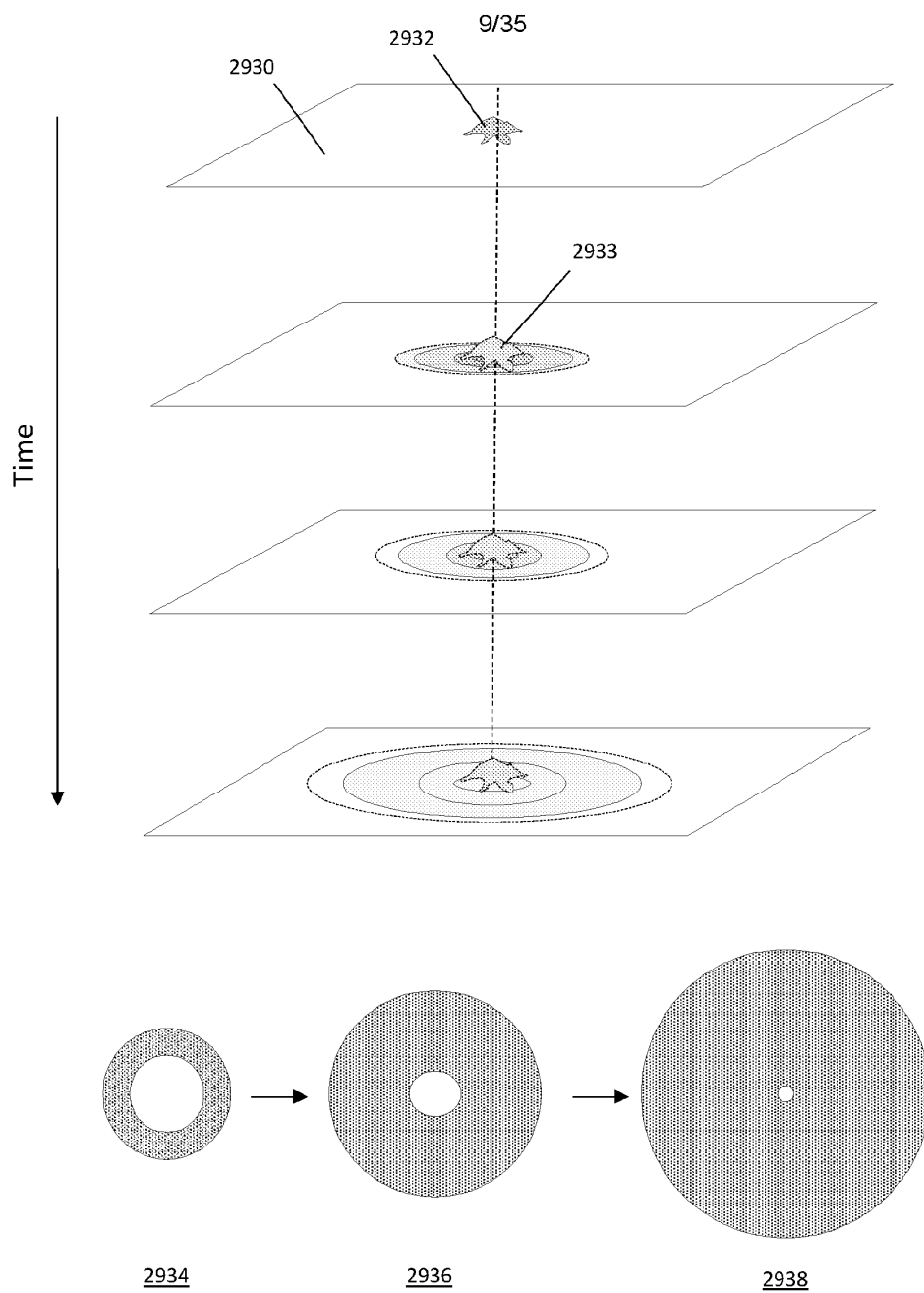


FIG. 2F

8/35

**FIG. 2G**



Change in distribution of capture mRNA molecules having an
Expected nearest neighbor distance of 1 μm or greater

FIG. 2H

10/35

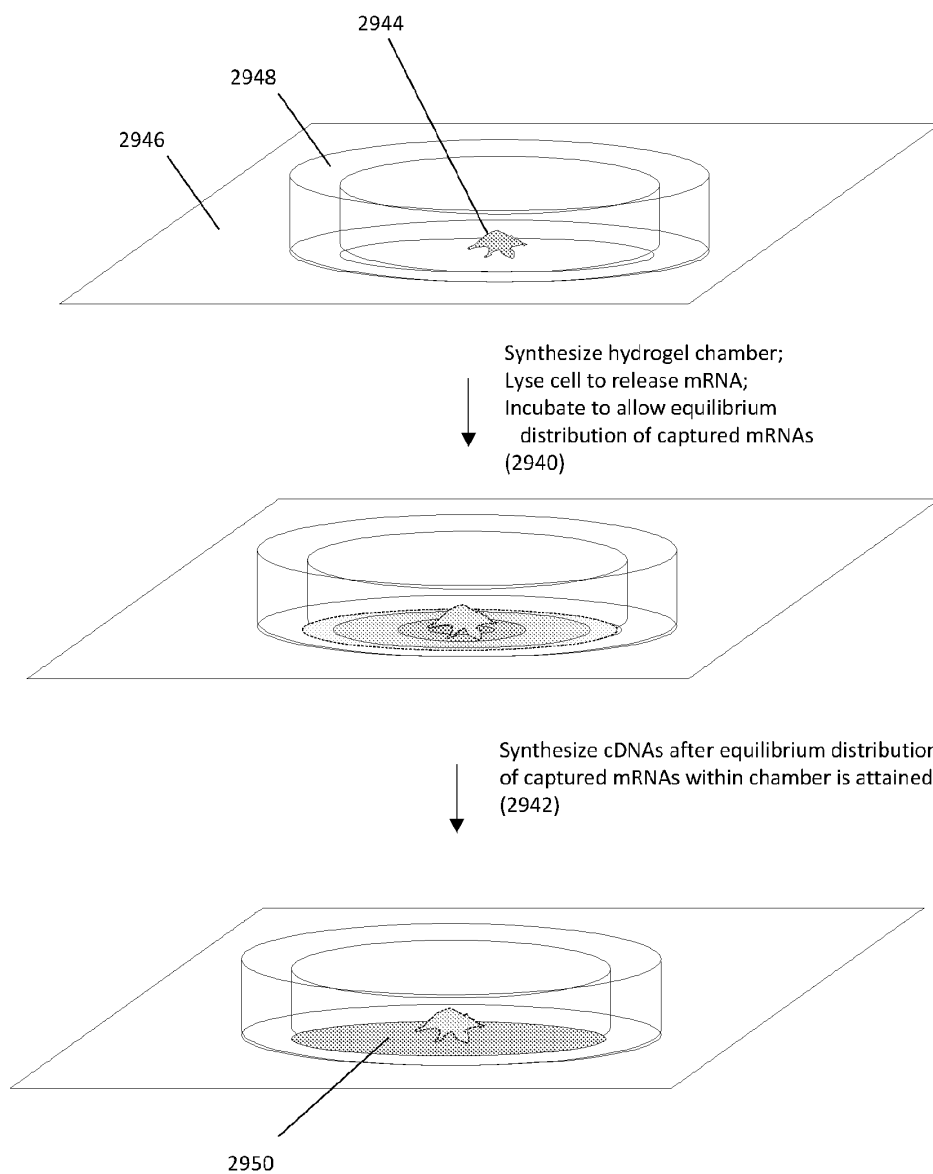


FIG. 2I

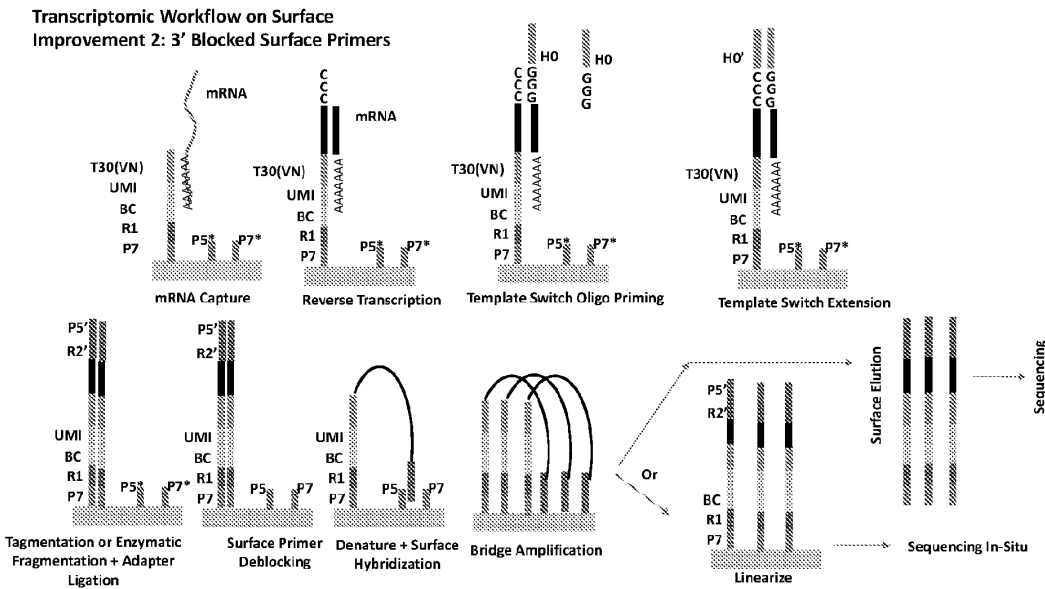


FIG. 3

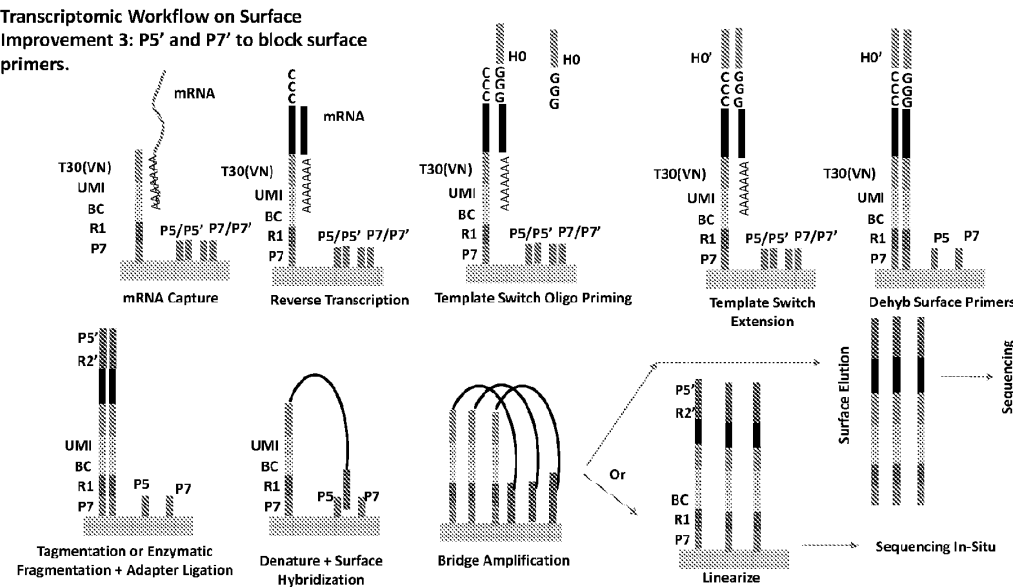
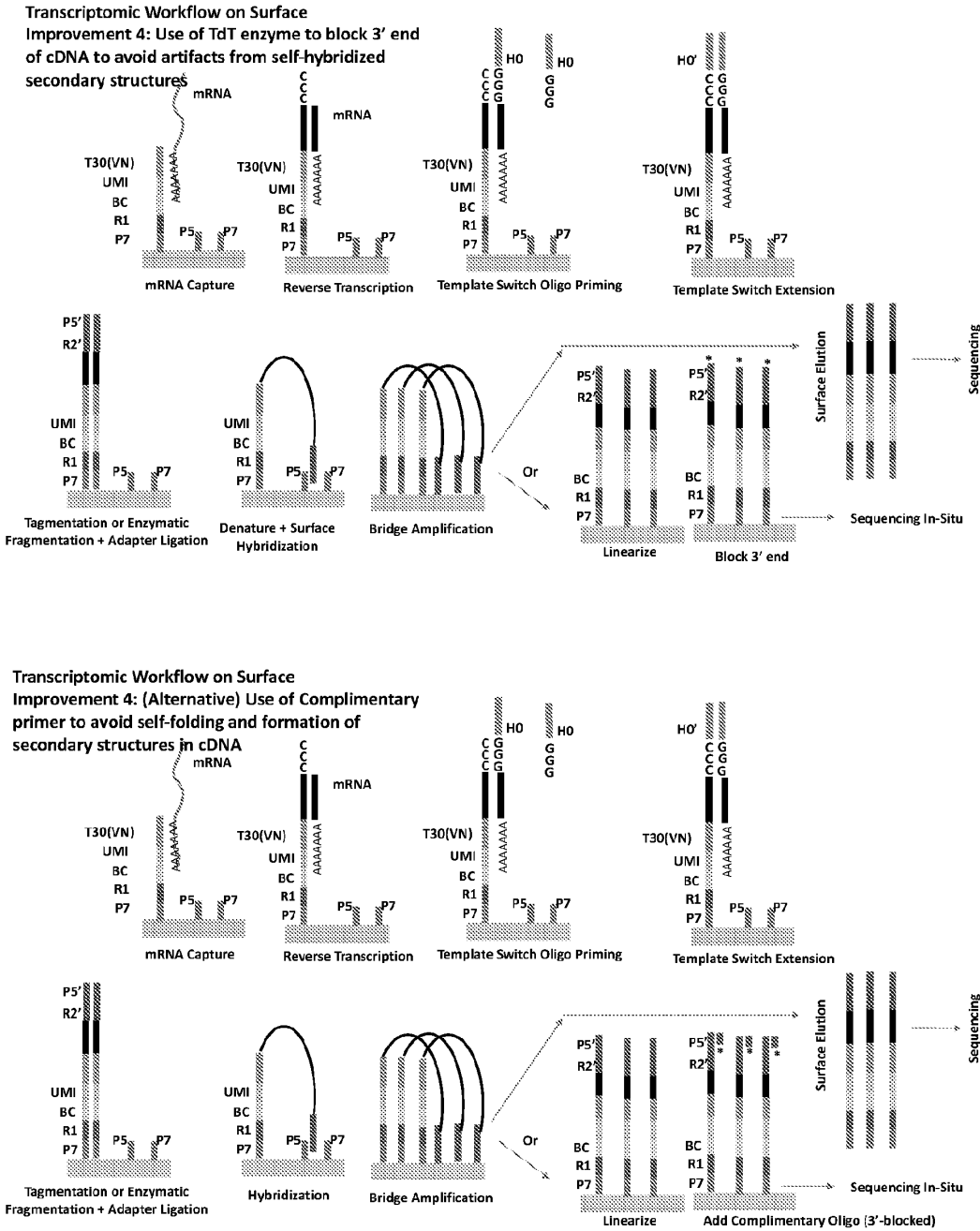


FIG. 4



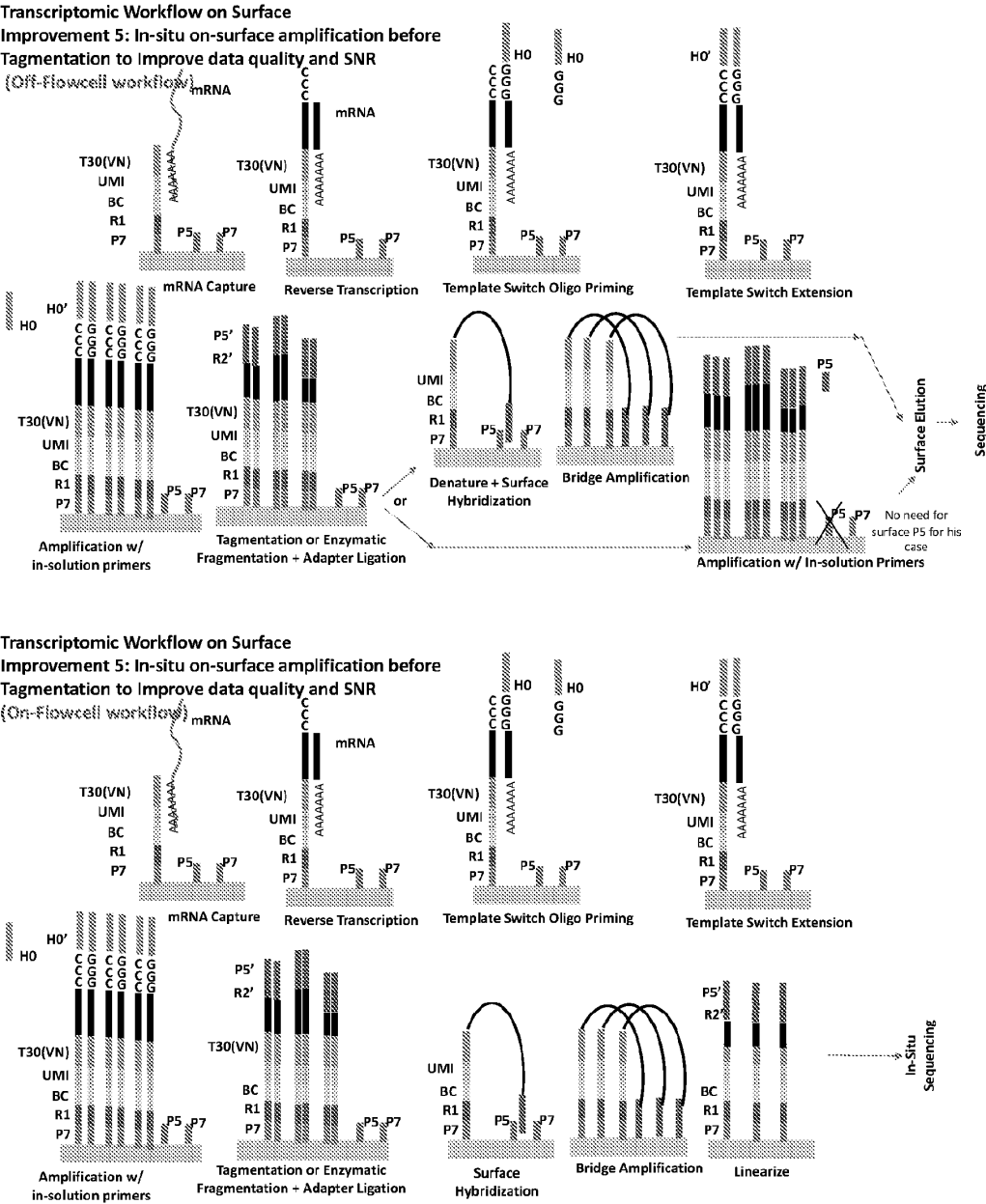


FIG. 6

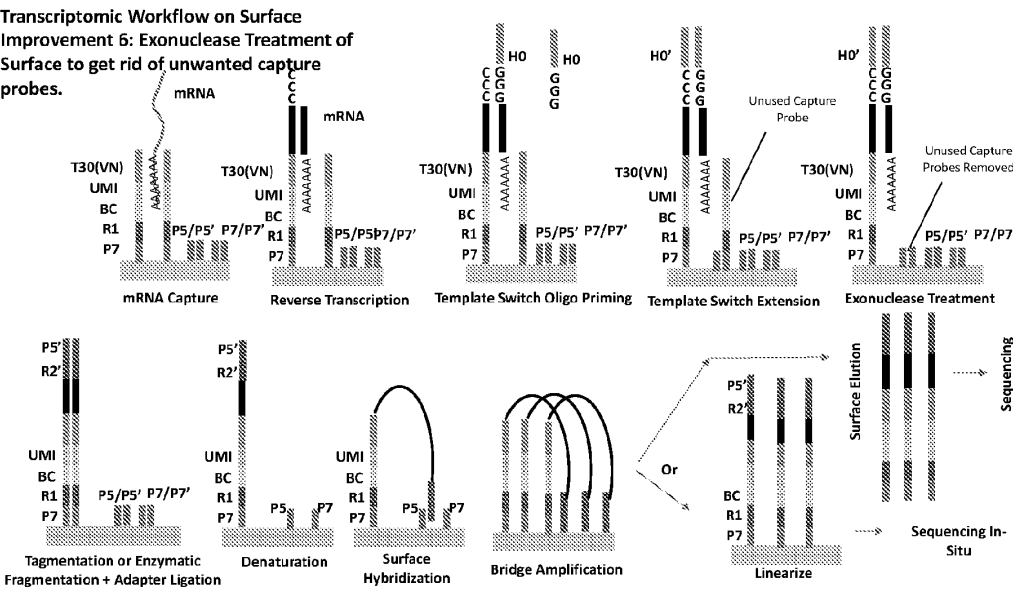


FIG. 7

Transcriptomic Workflow on Surface
Improvement 7: Use Surface Primers for Template Switching

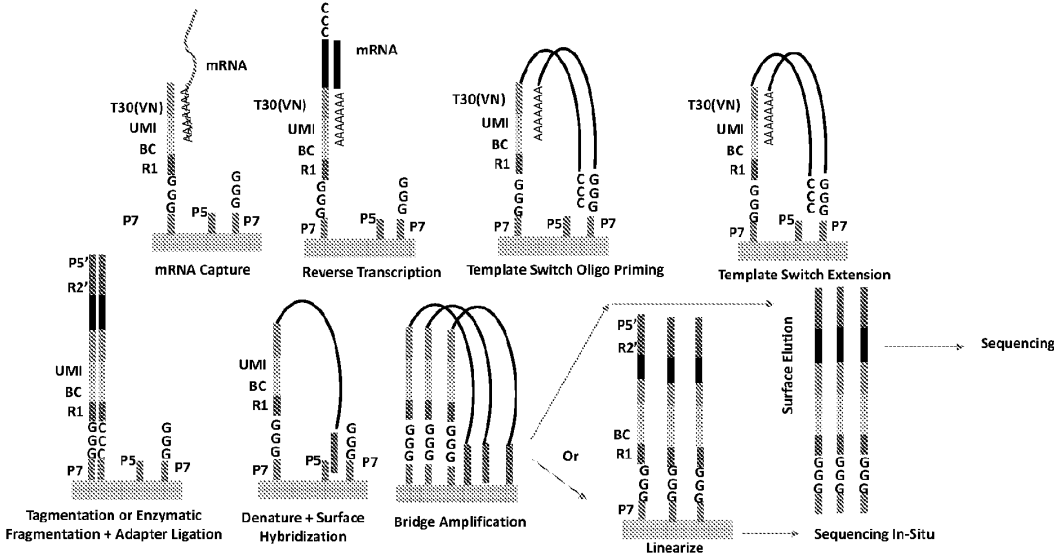


FIG. 8A

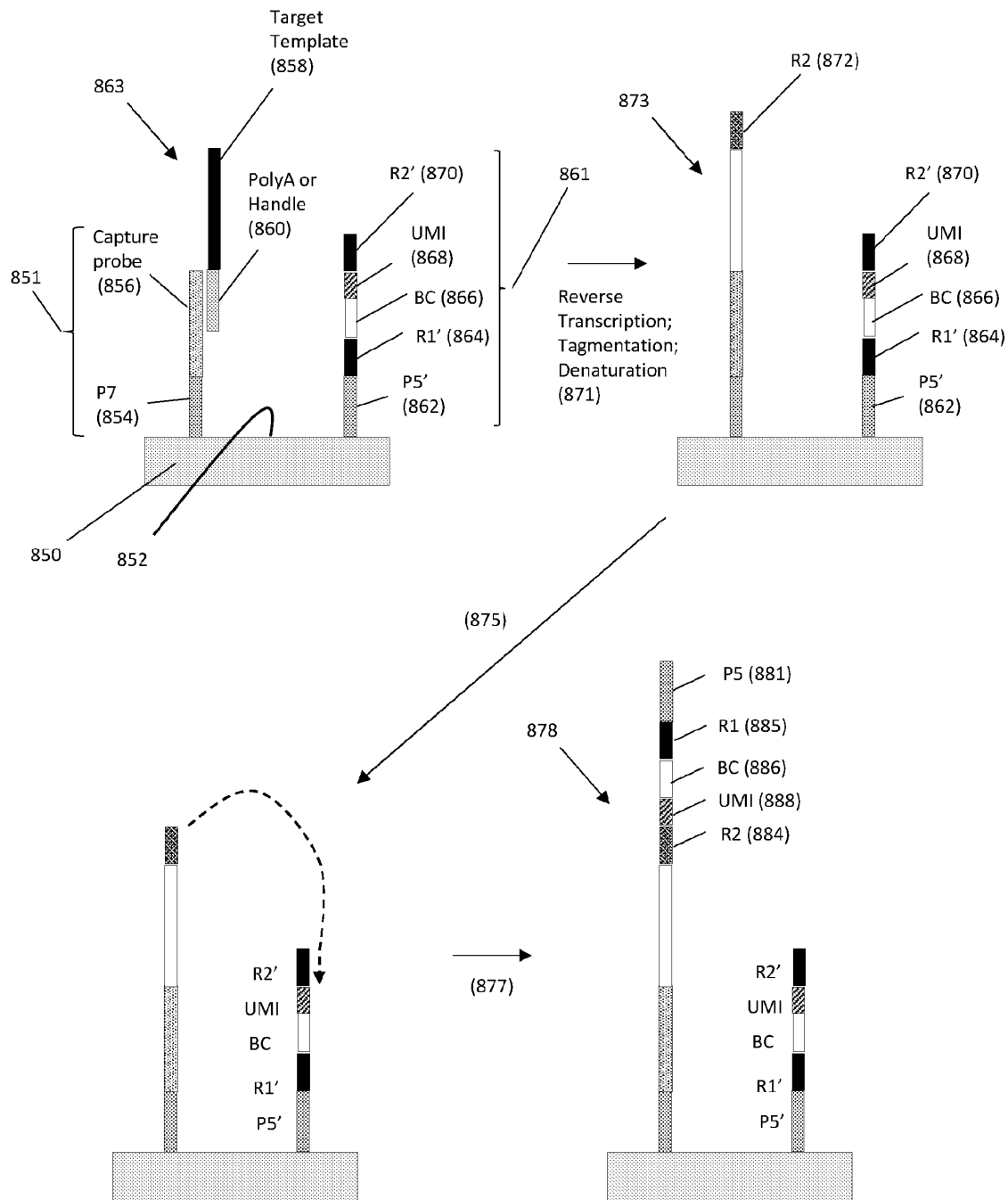


FIG. 8B

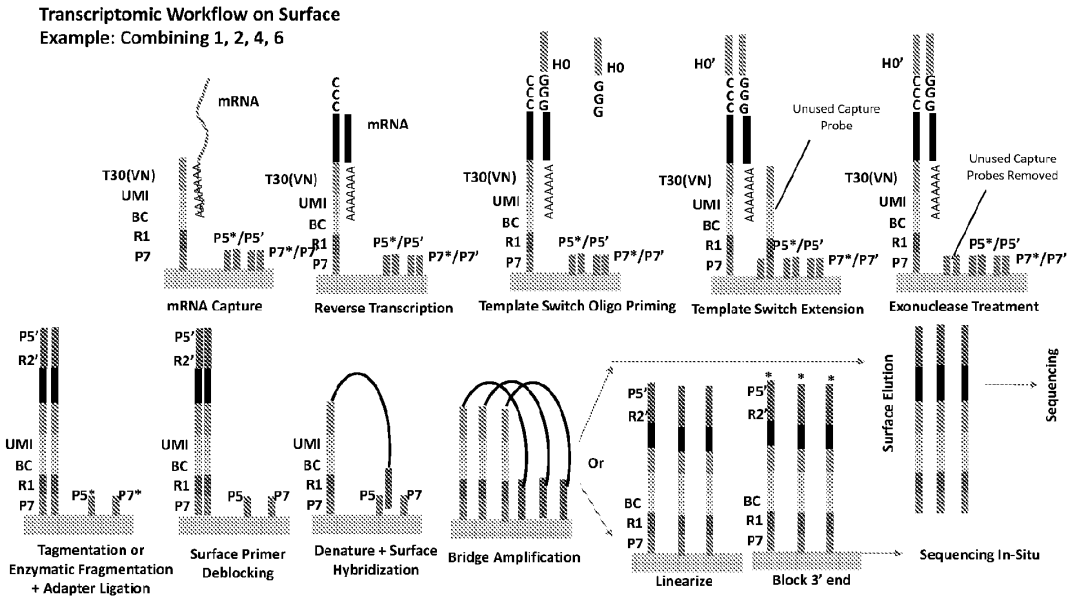


FIG. 9

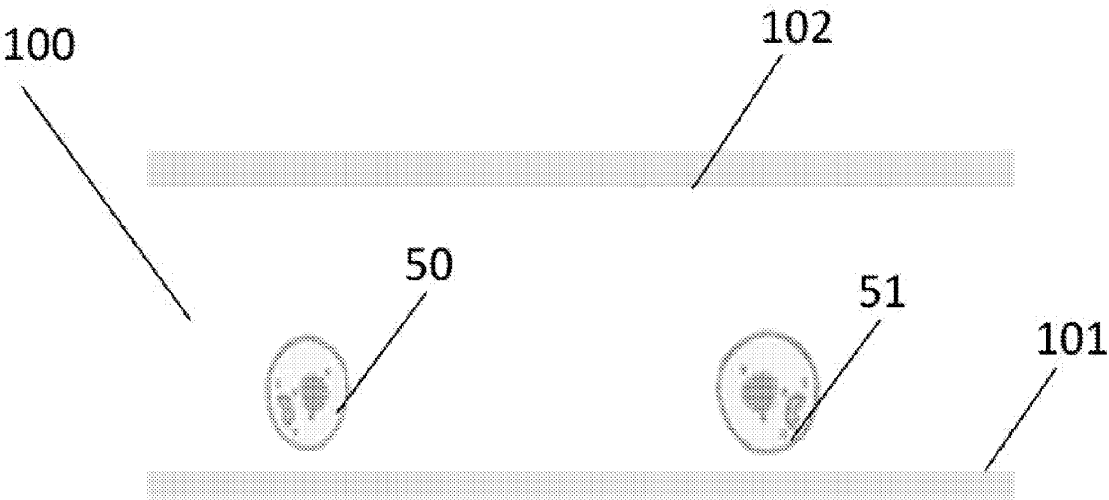


FIG. 10

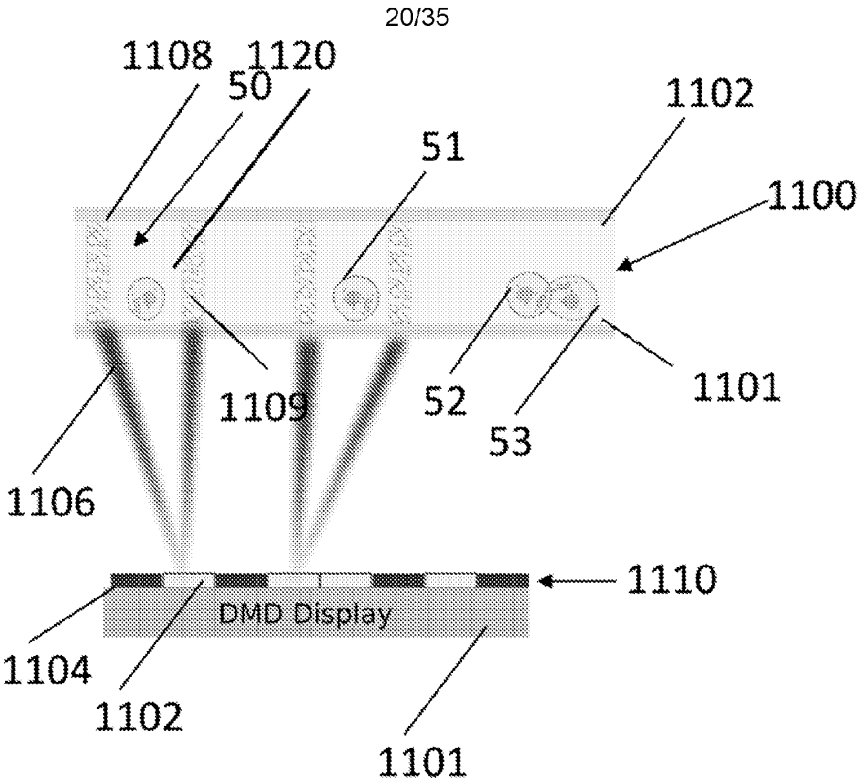


FIG. 11A

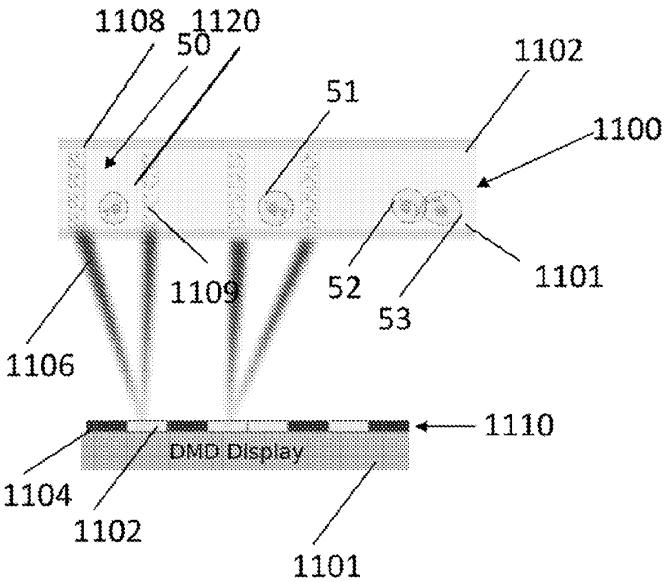


FIG. 11B

21/35

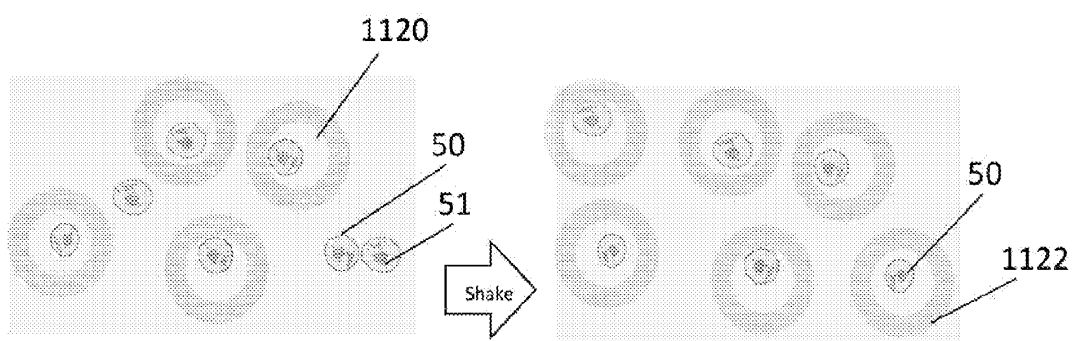


FIG. 11C

22/35

1200

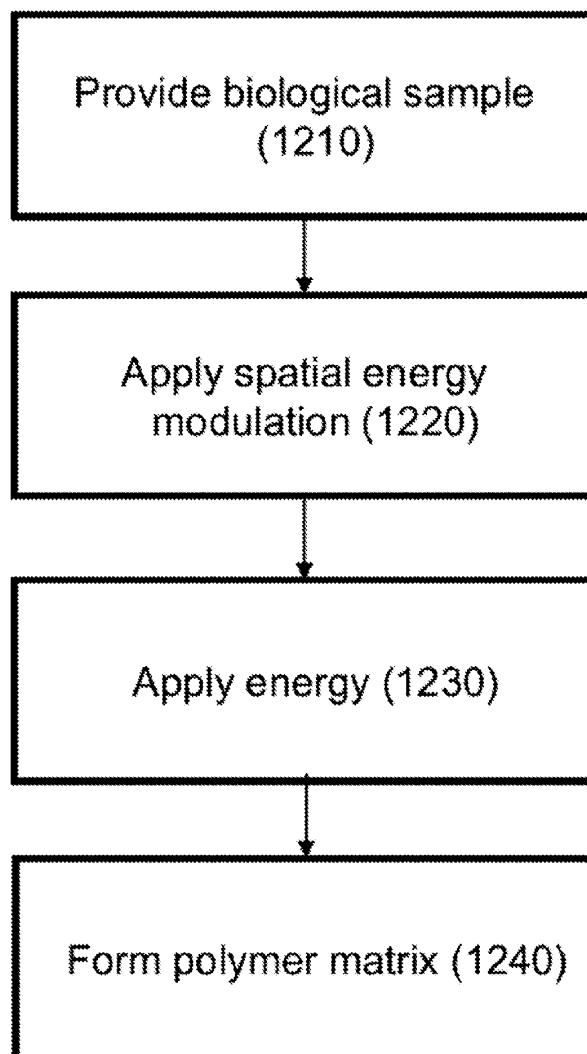
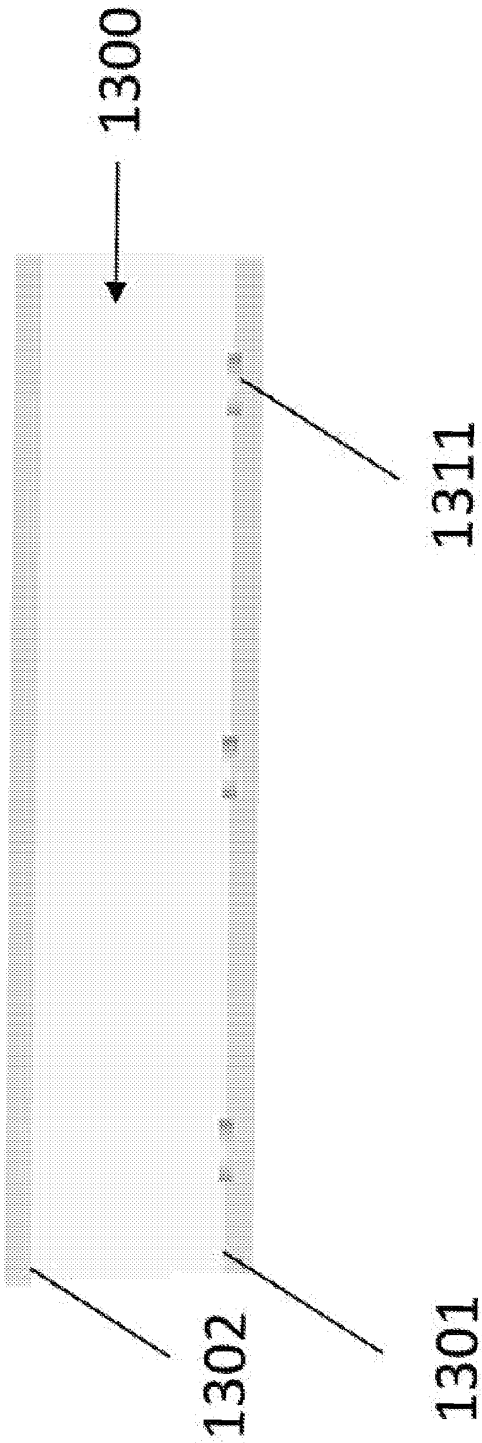
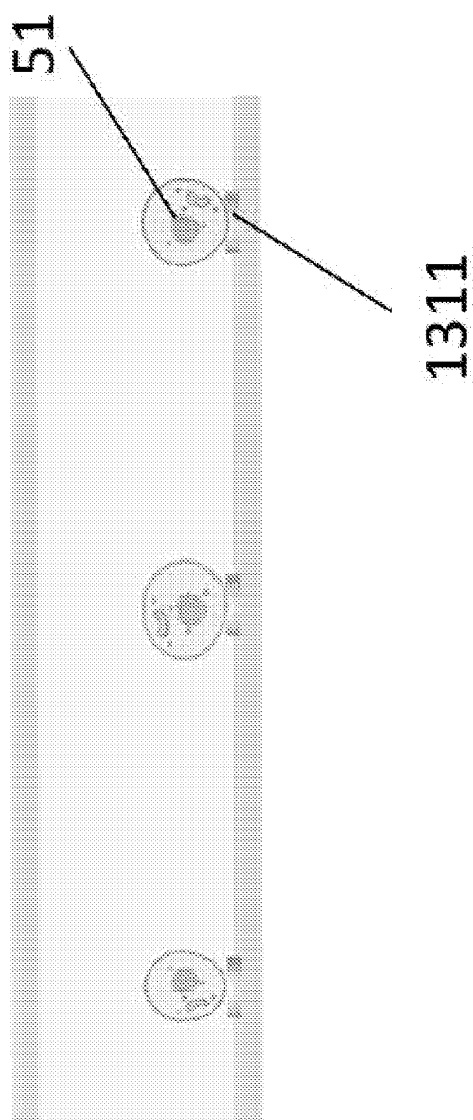


FIG. 12

23/35
FIG. 13A



24/35
FIG. 13B



25/35

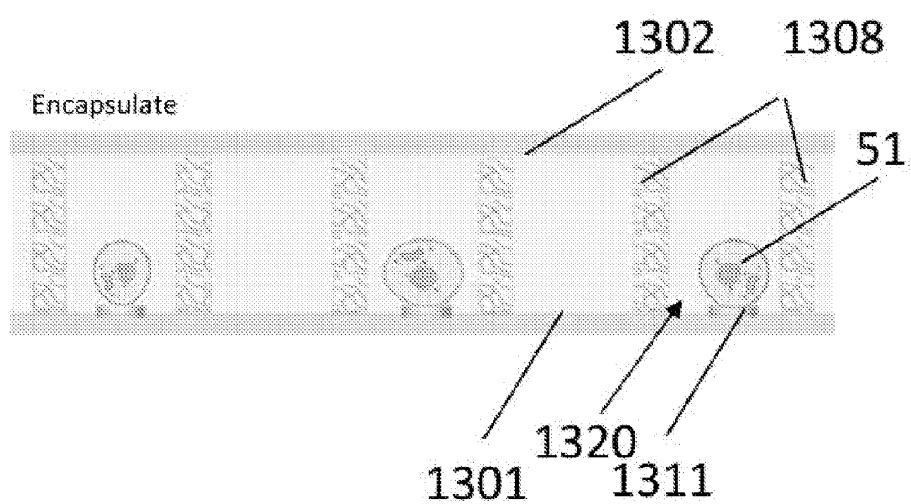


FIG. 13C

26/35

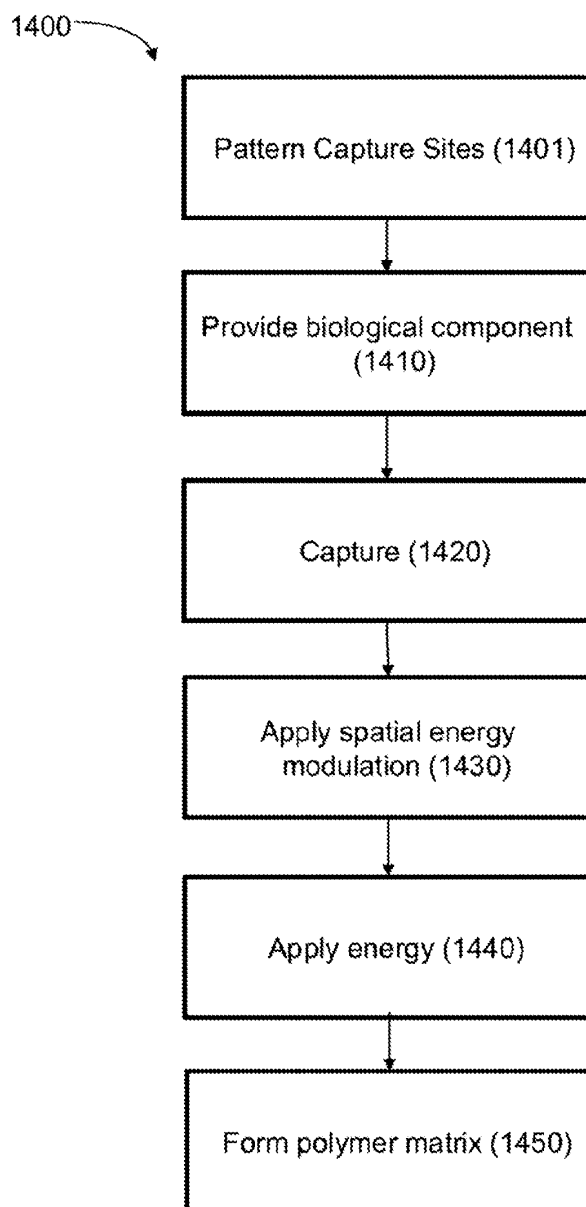


FIG. 14

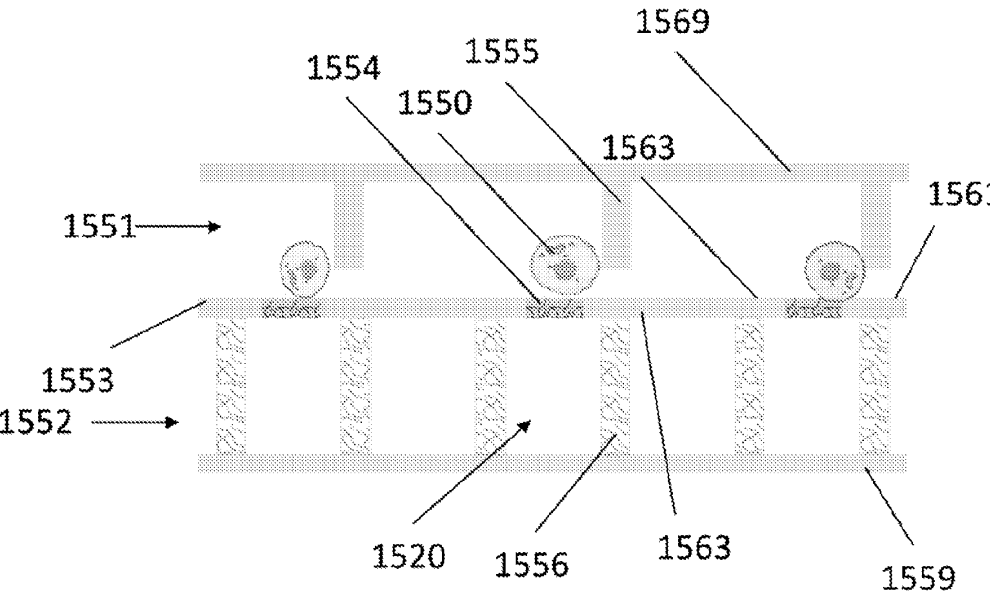


FIG. 15A

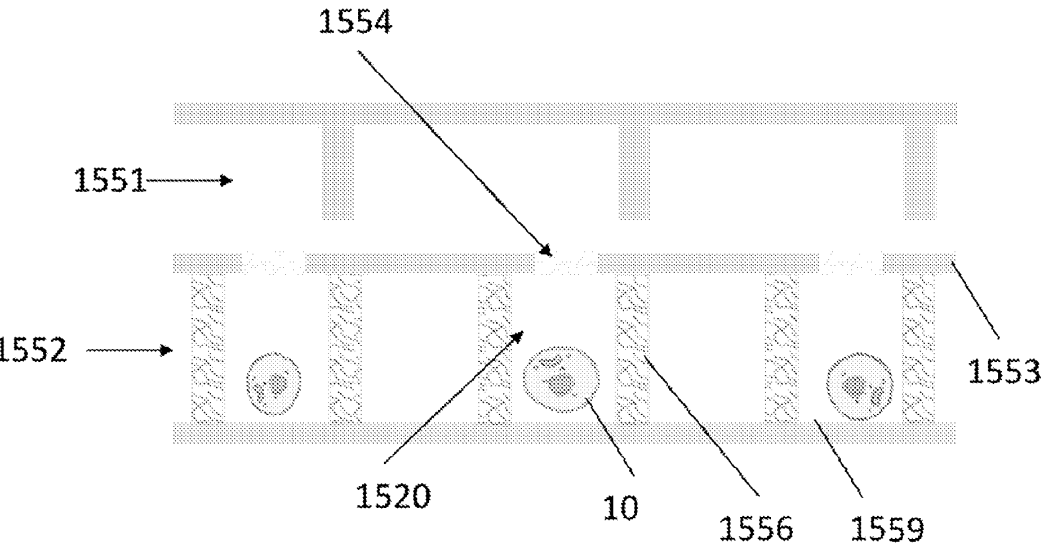


FIG. 15B

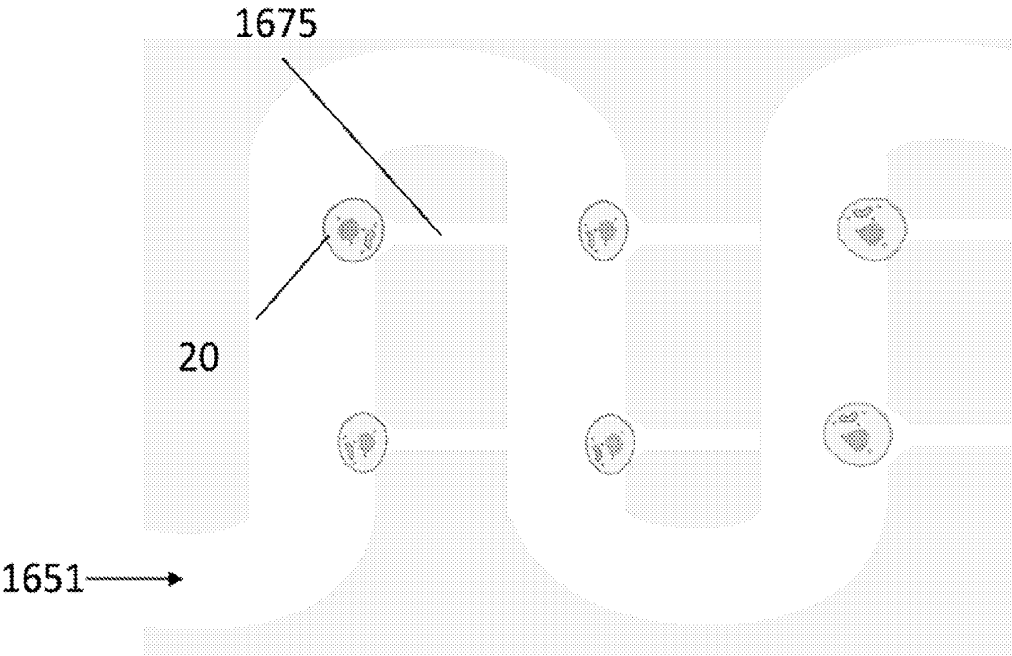


FIG. 16A

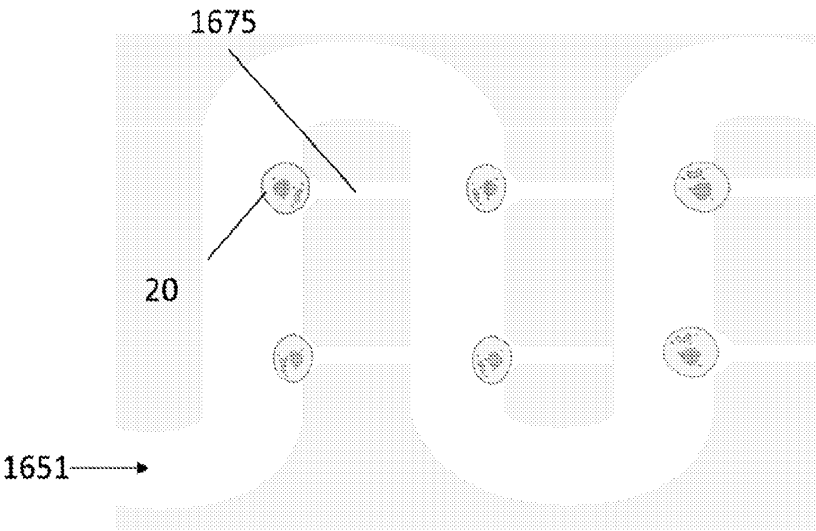


FIG. 16B

29/35

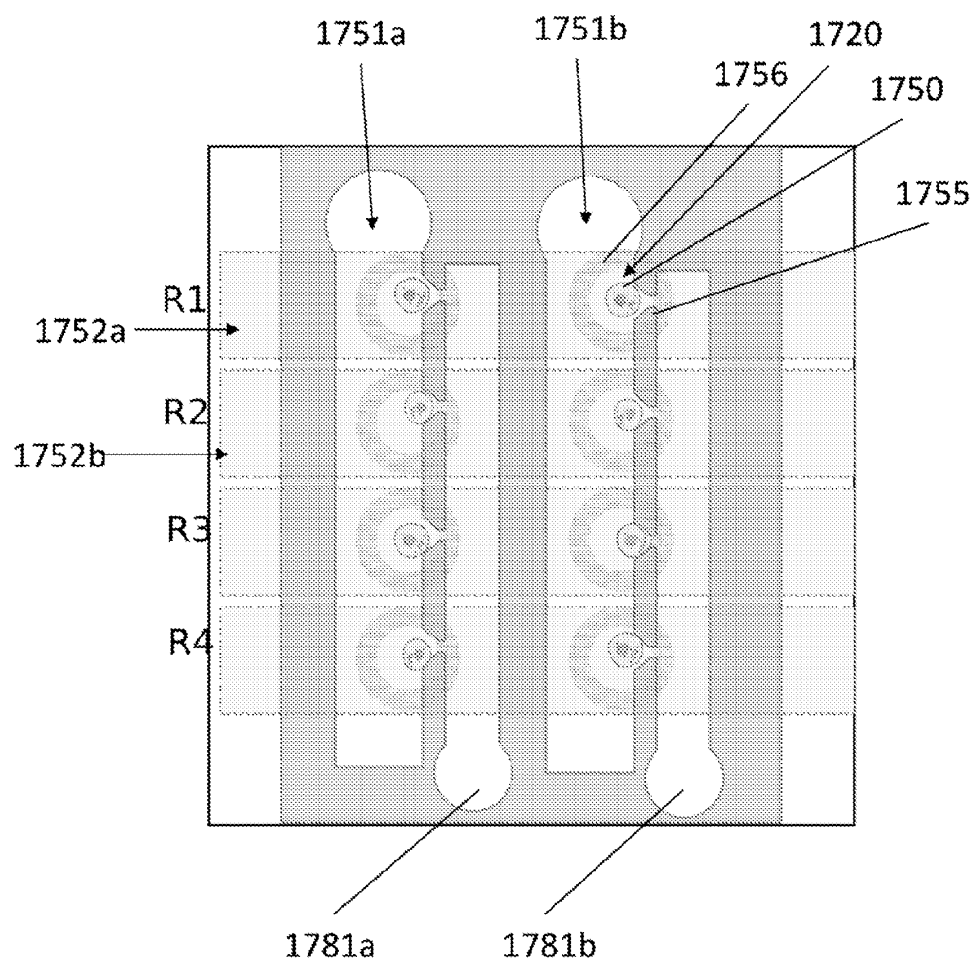


FIG. 17

30/35

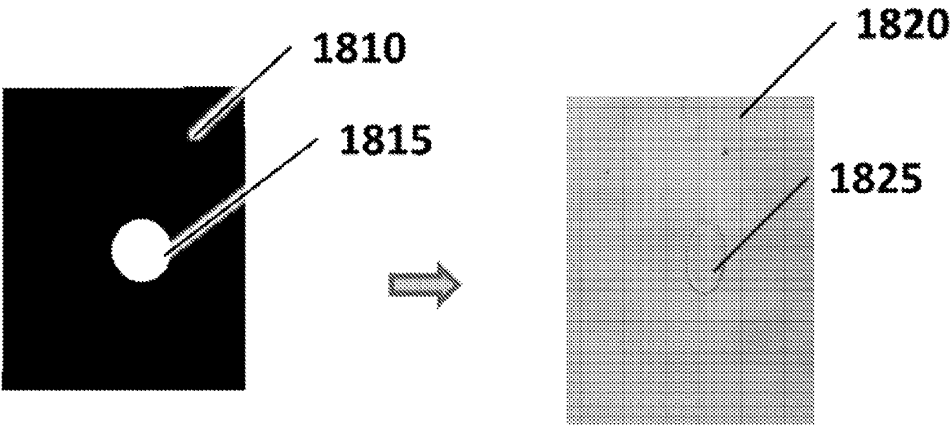


FIG. 18A

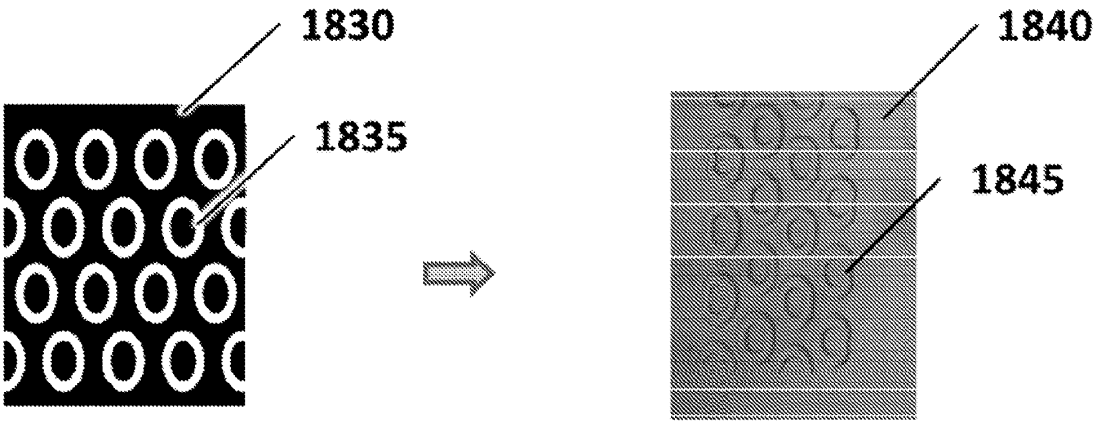


FIG. 18B

31/35

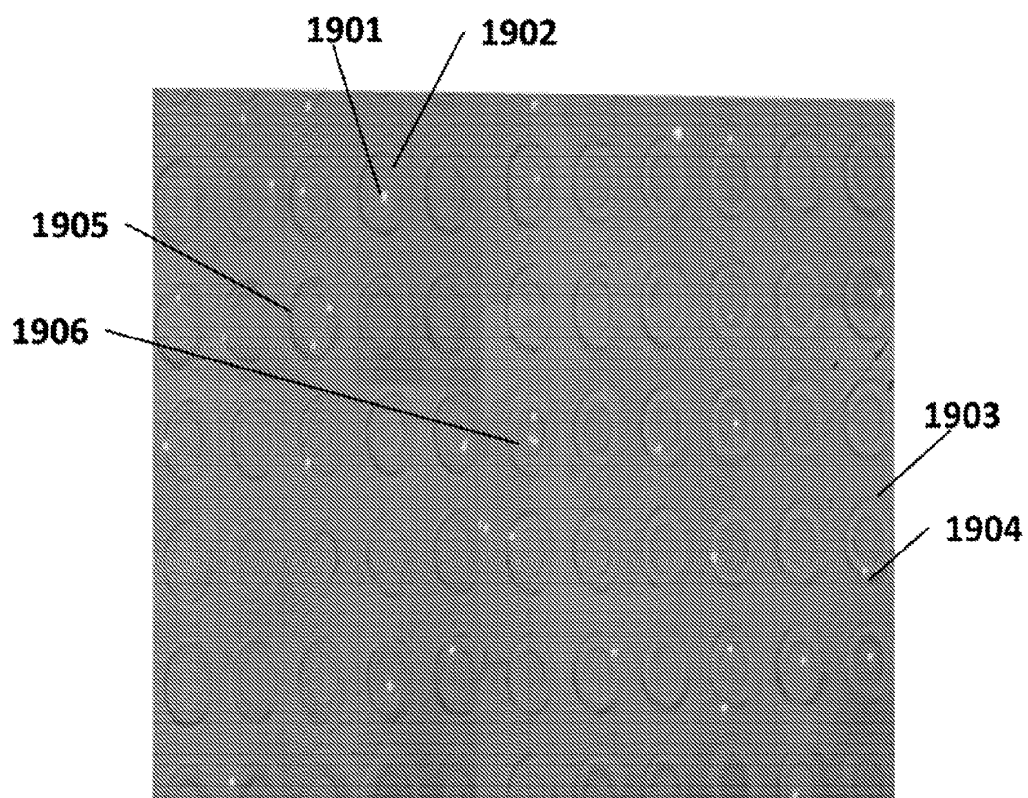


FIG. 19

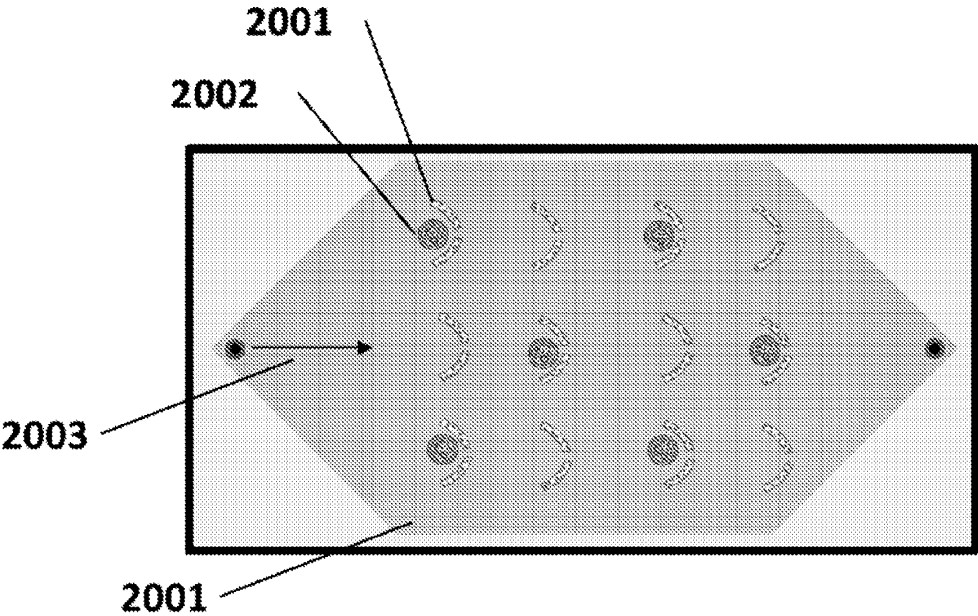


FIG. 20A

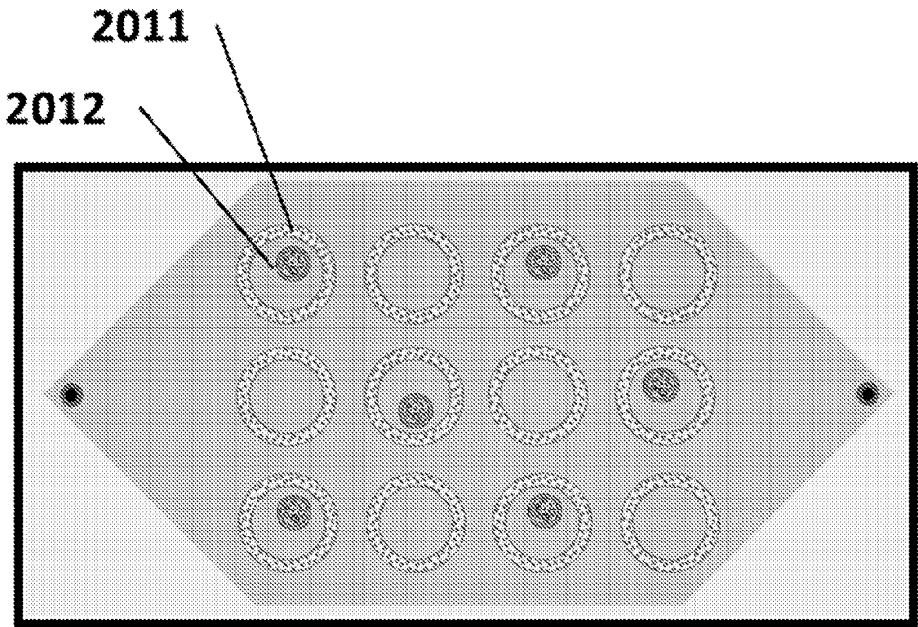


FIG. 20B

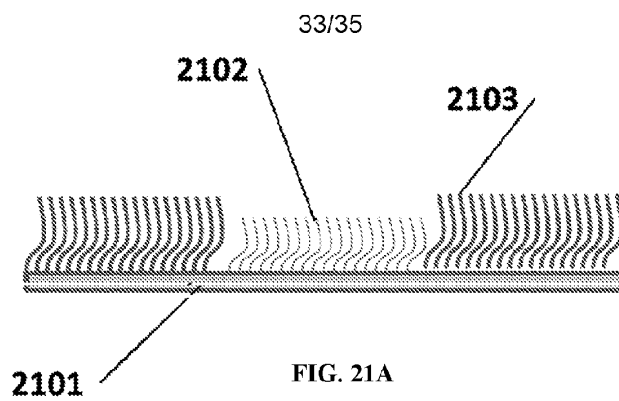


FIG. 21A

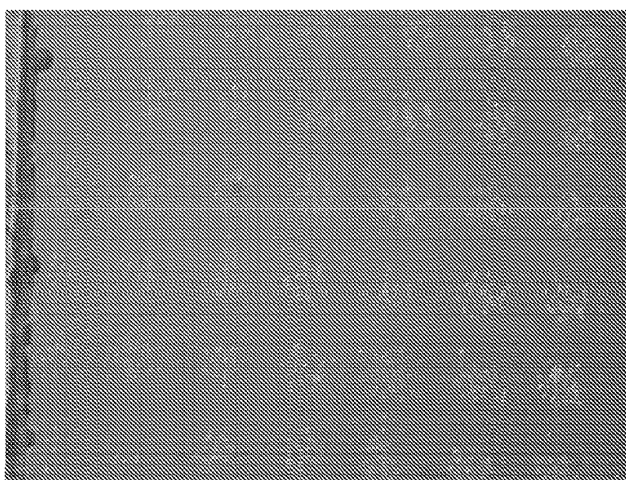


FIG. 21B

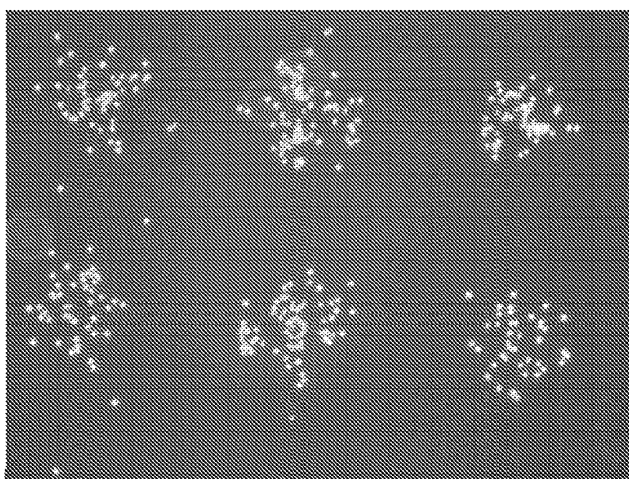


FIG. 21C

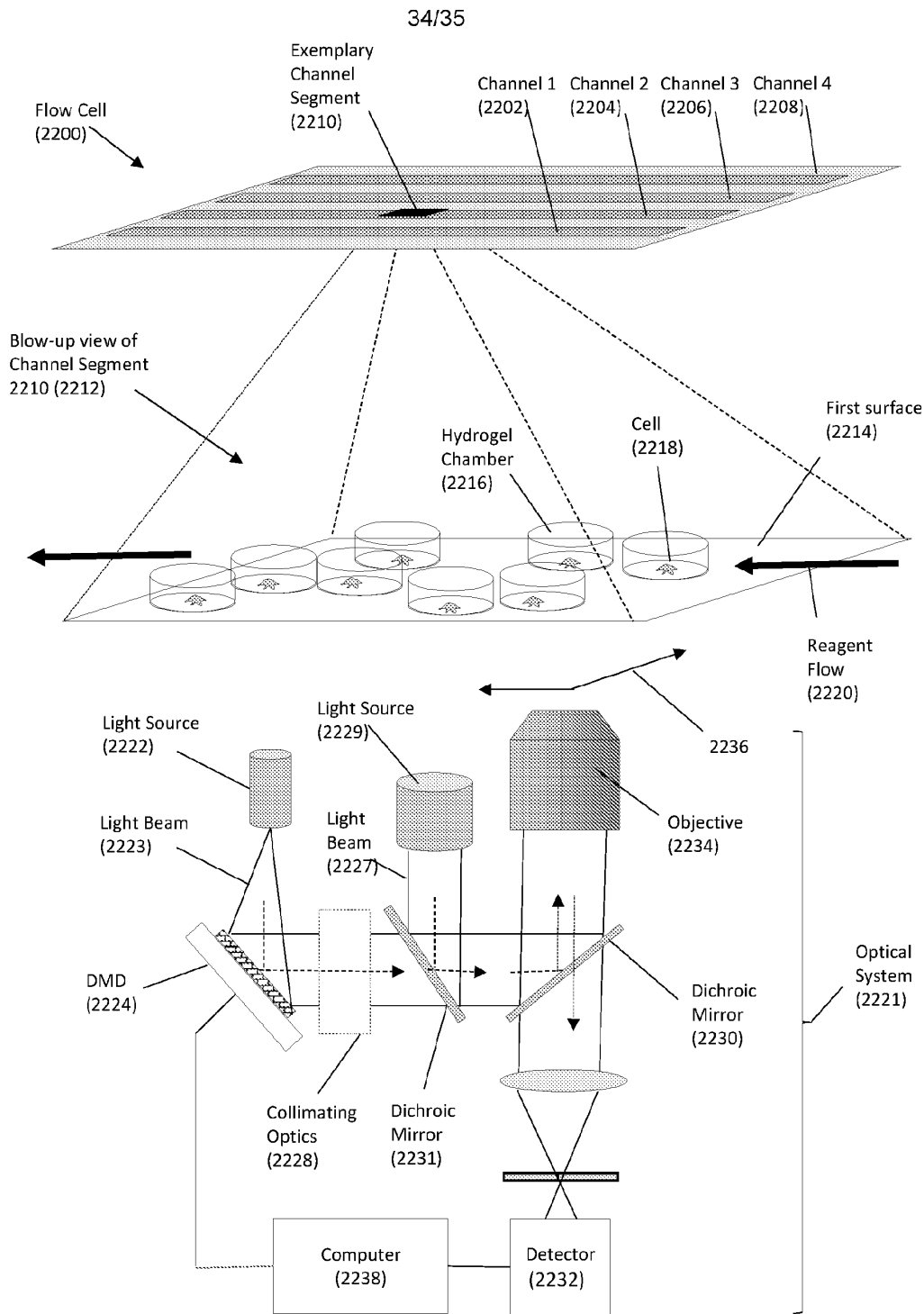


FIG. 22A

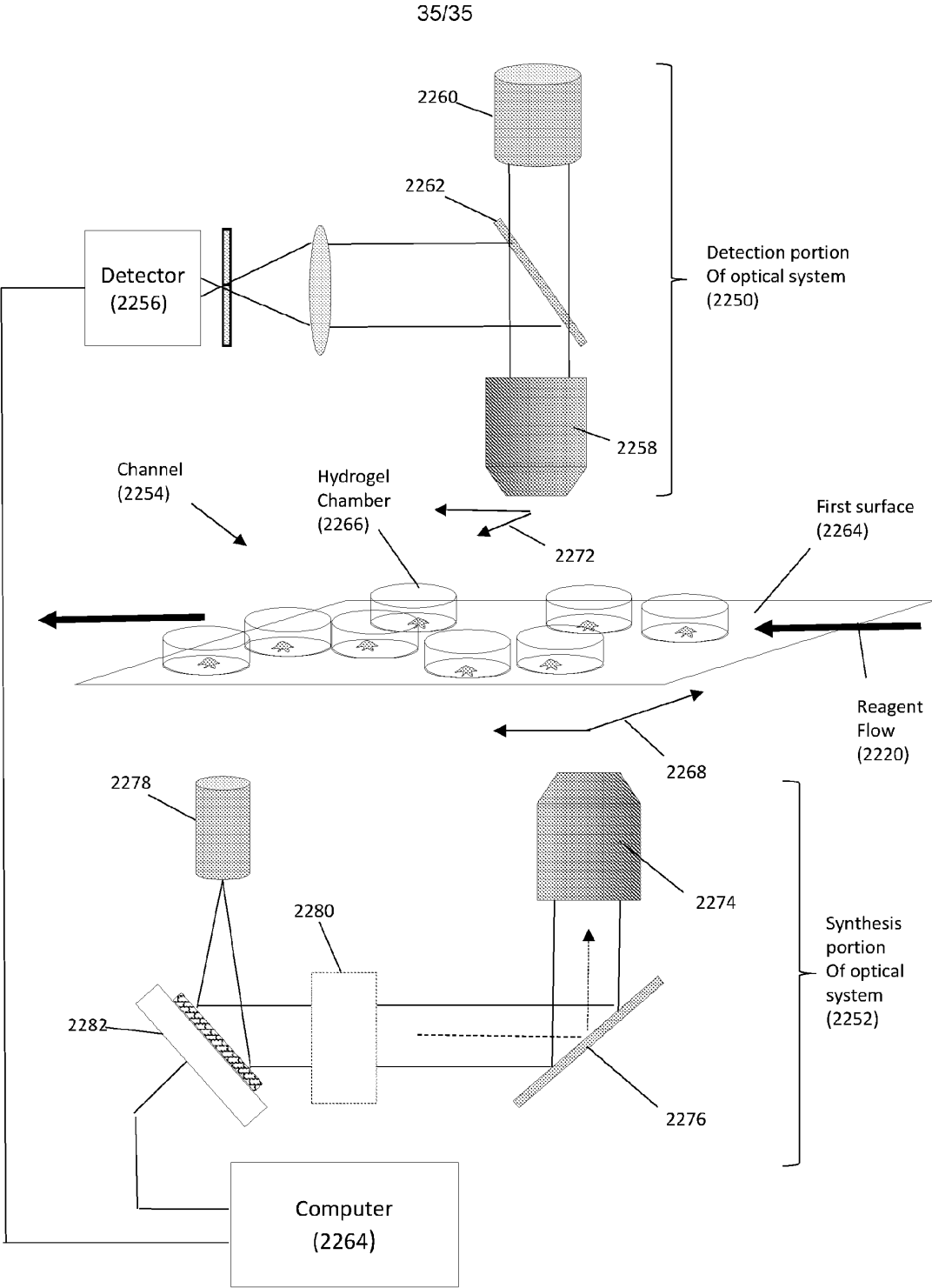


FIG. 22B