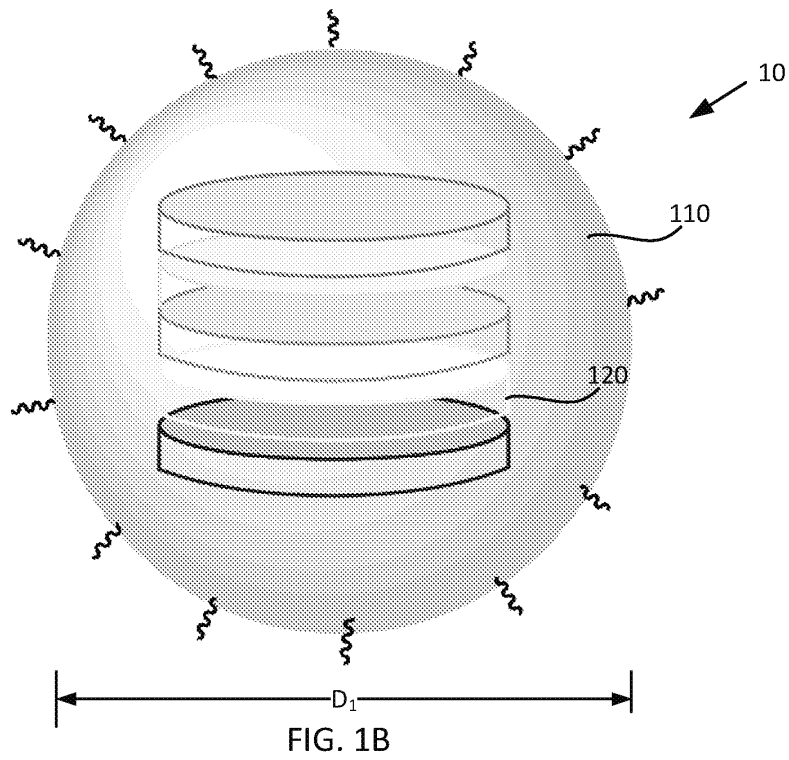
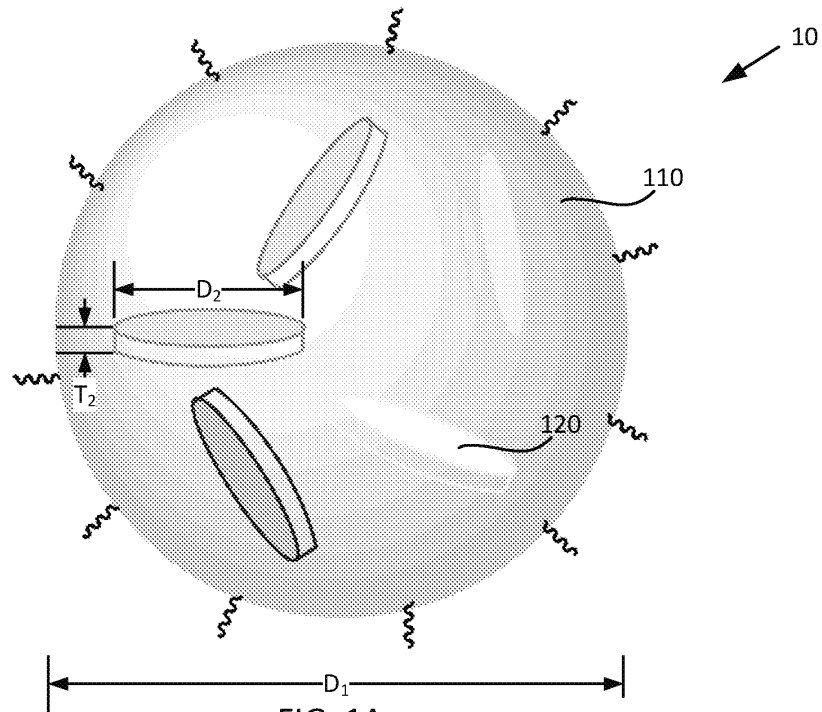


1/47



2/47

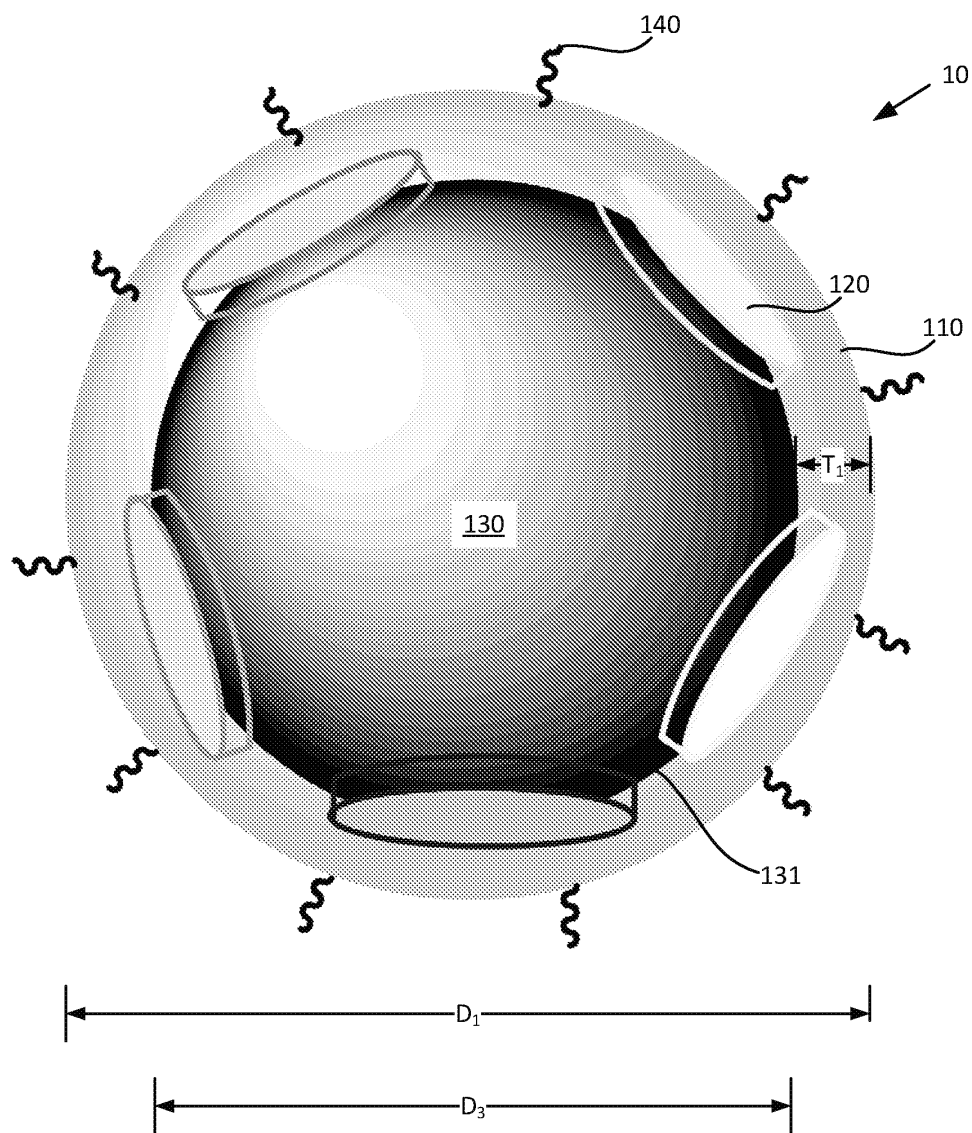


FIG. 1C

3/47

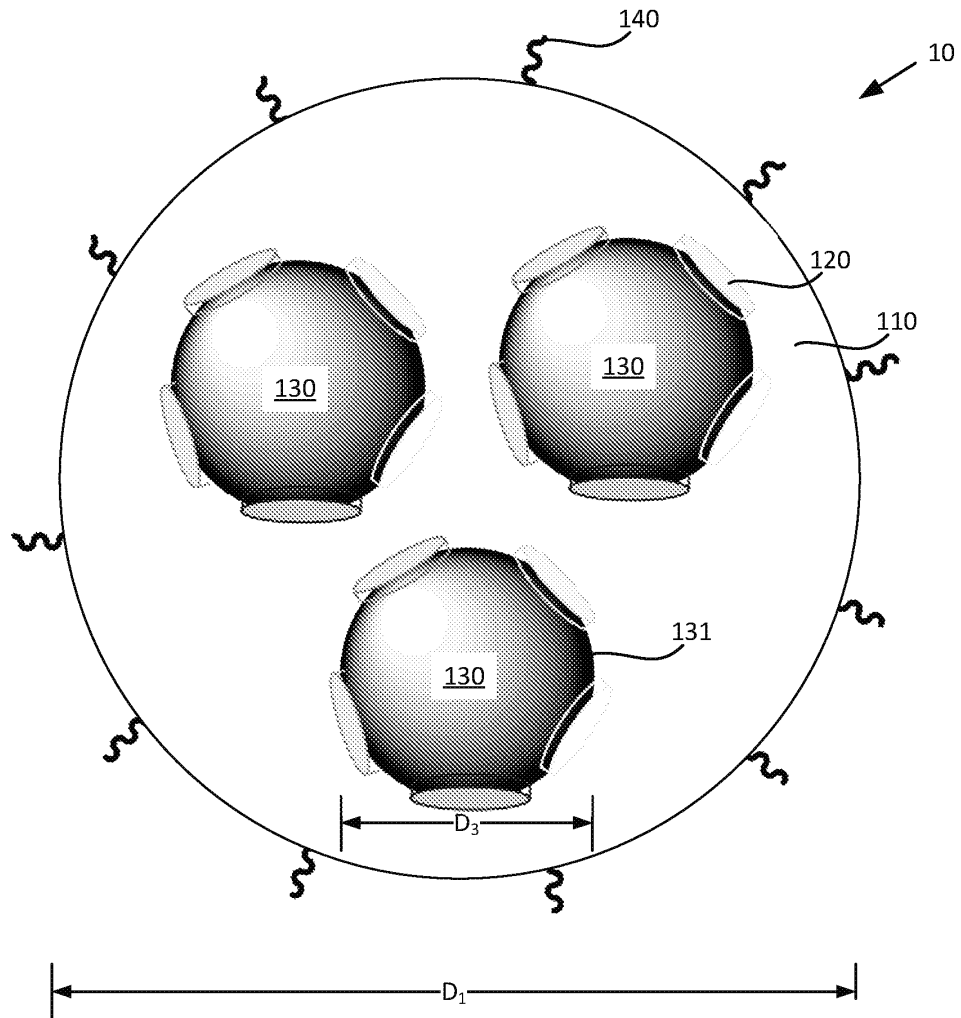


FIG. 1D

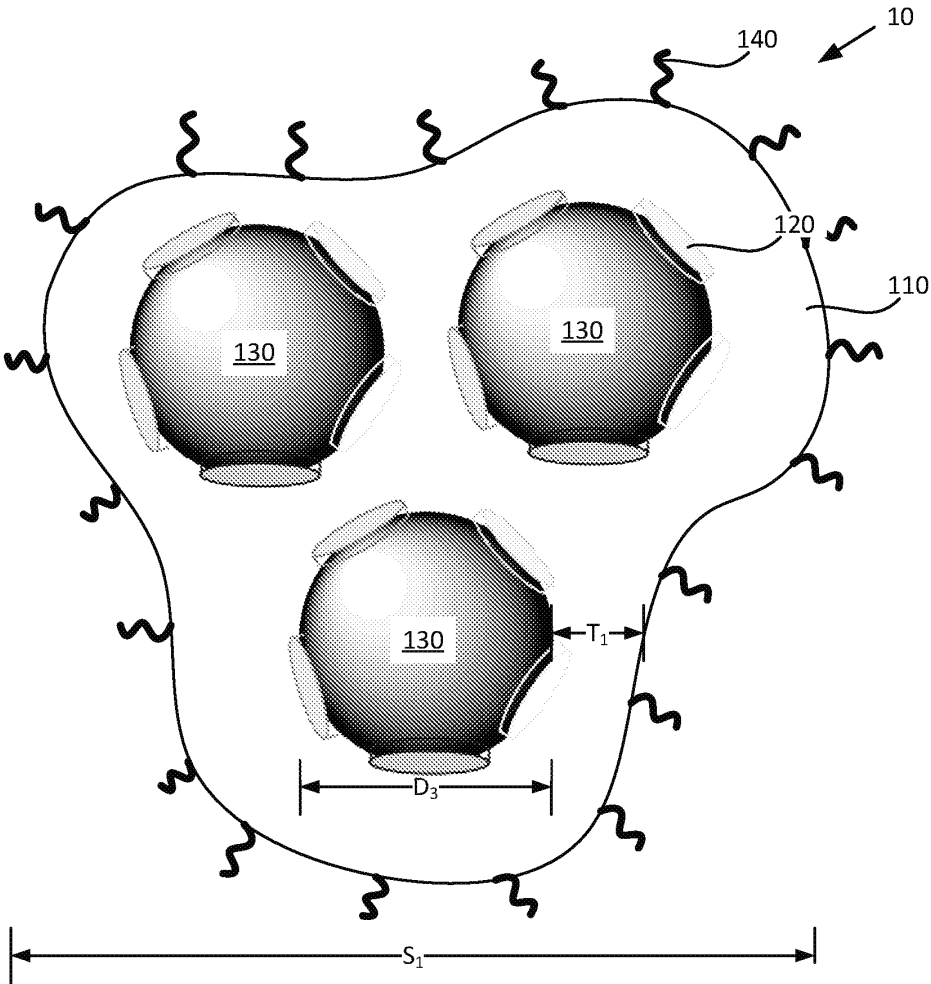


FIG. 1E

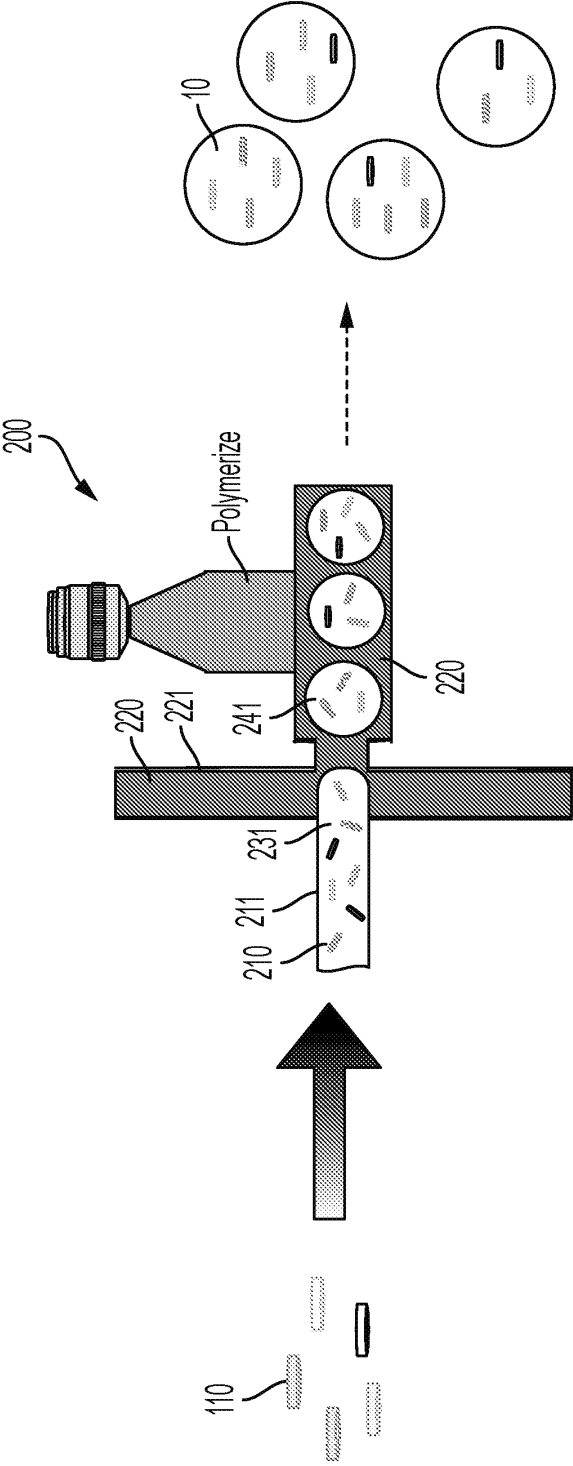


FIG. 2A

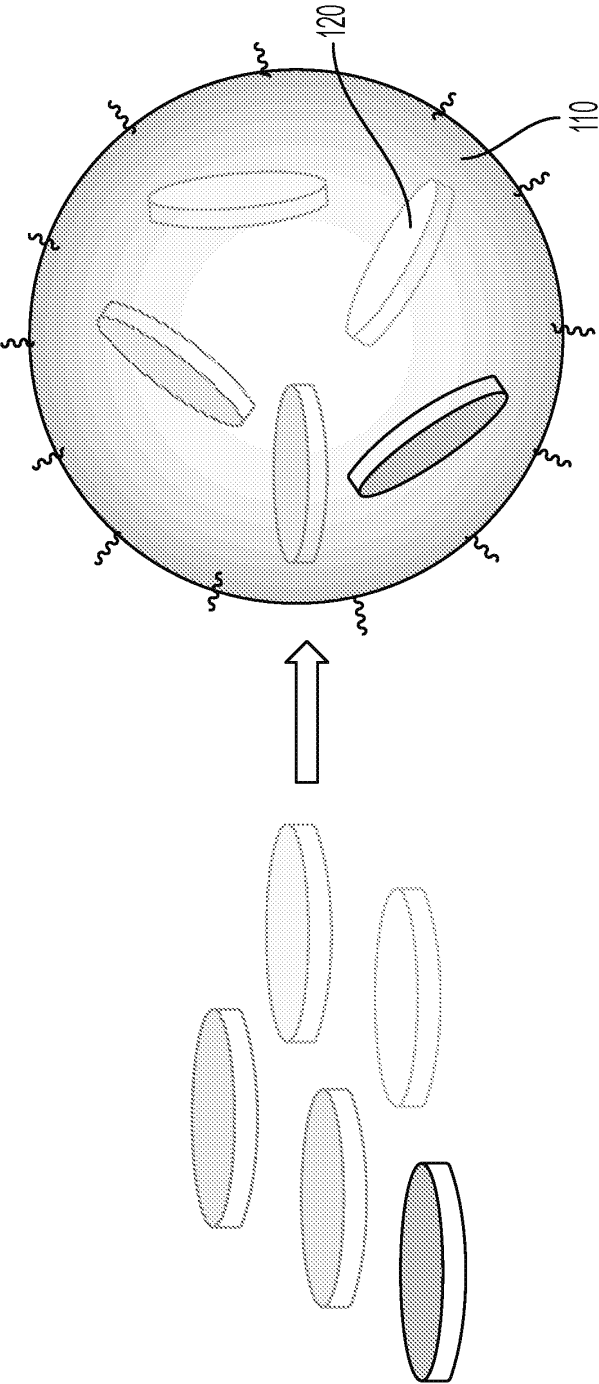


FIG. 2B

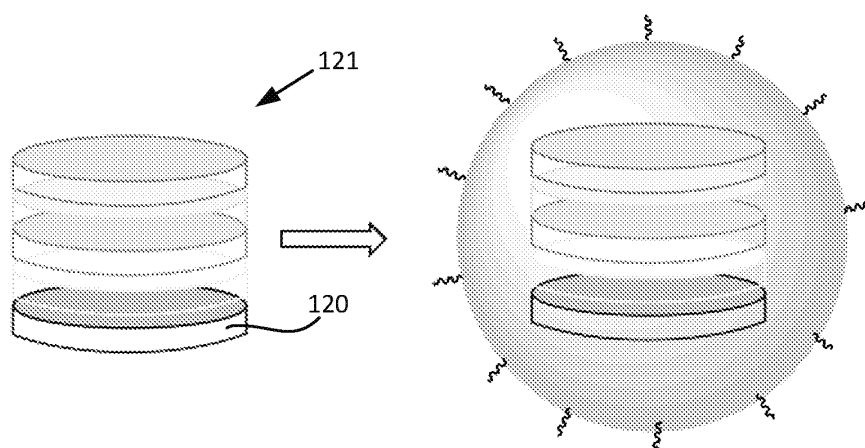


FIG. 2C

8/47

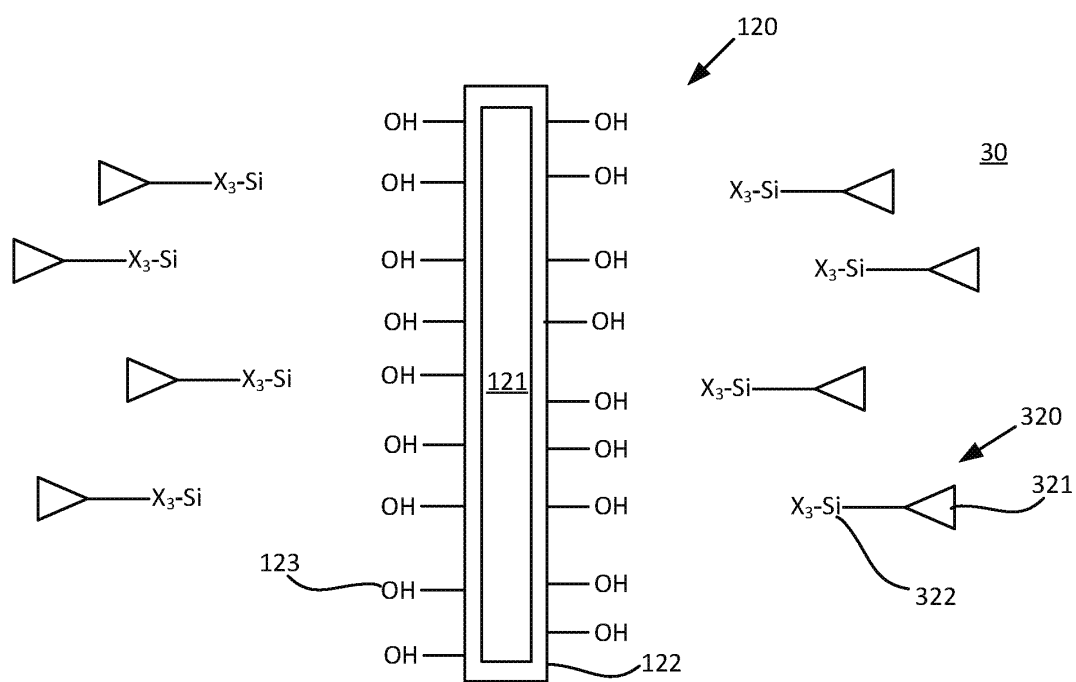


FIG. 3A

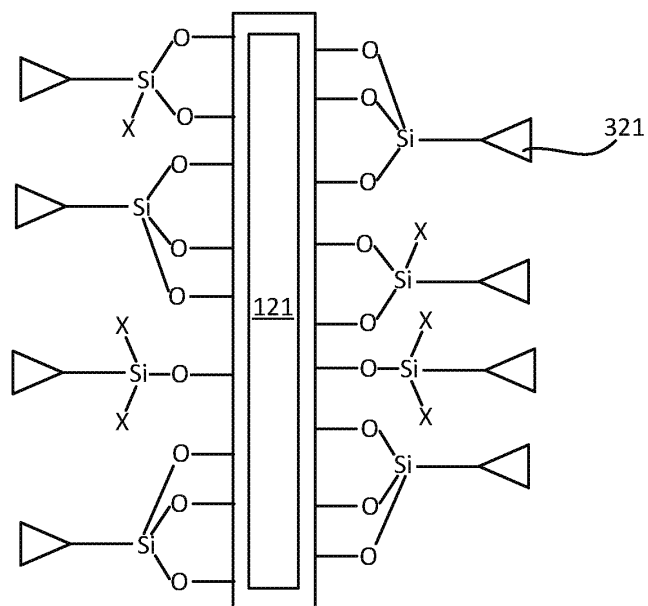


FIG. 3B

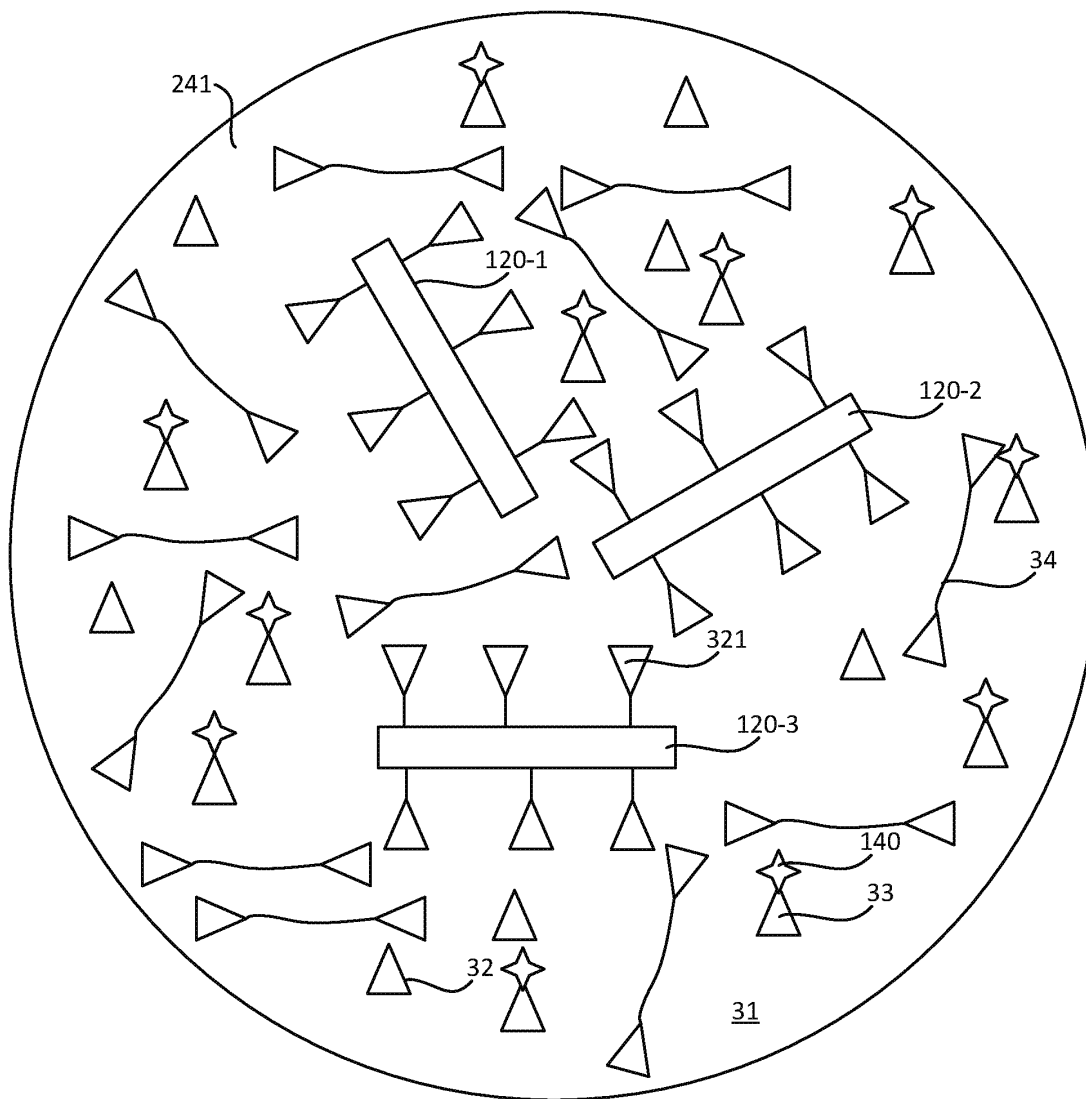


FIG. 3C

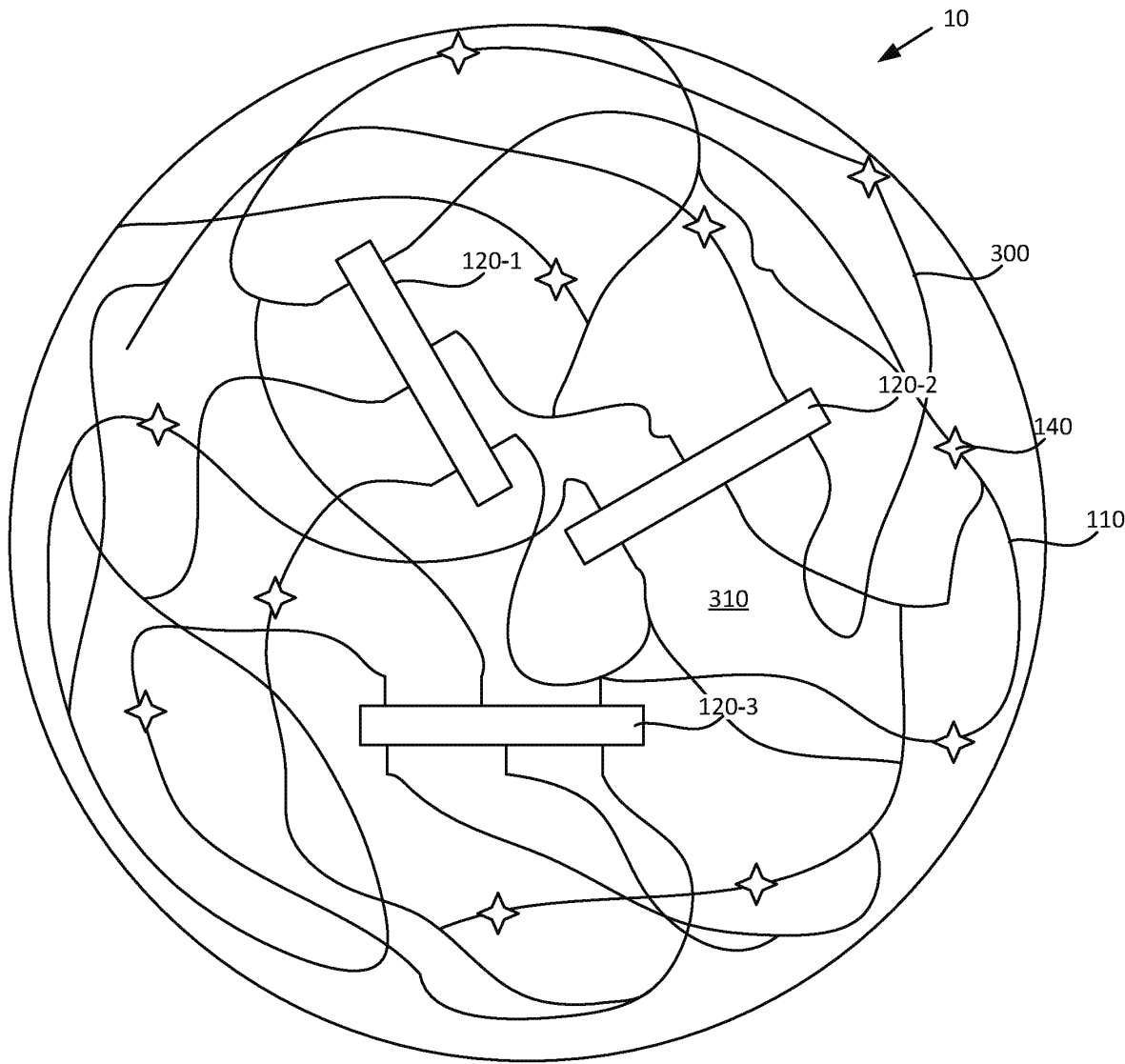


FIG. 3D

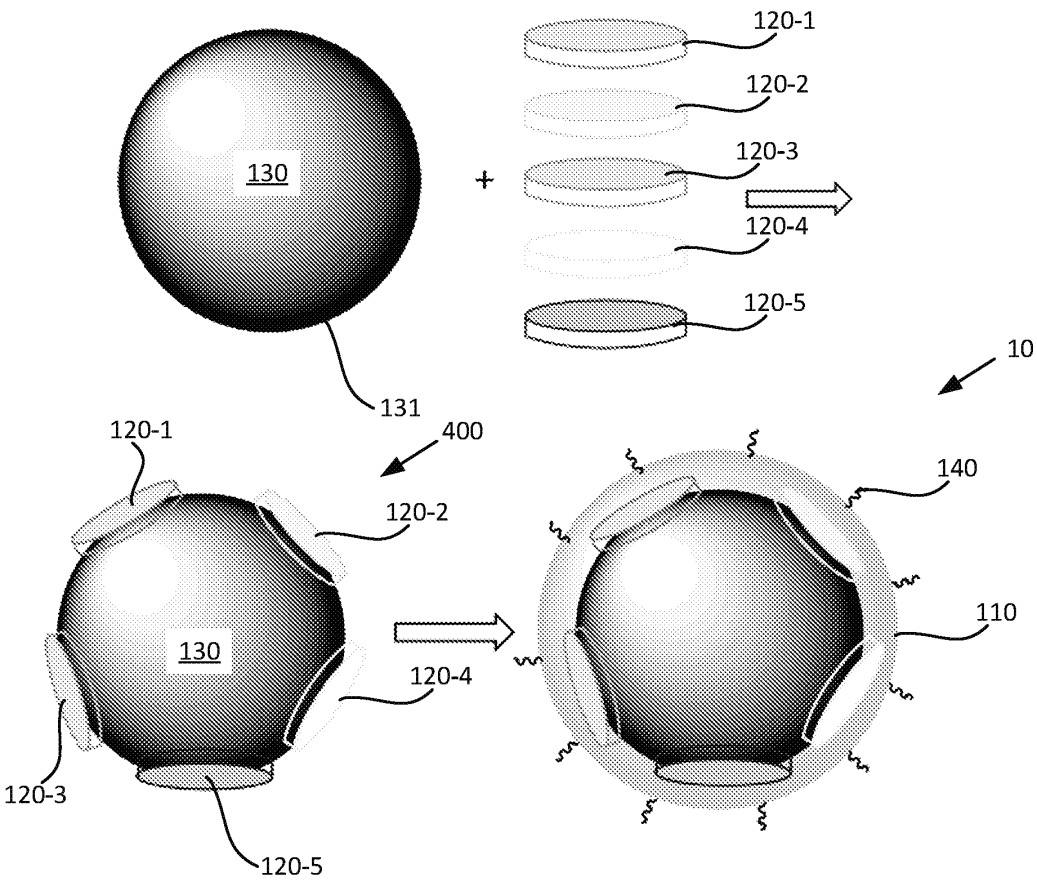


FIG. 4A

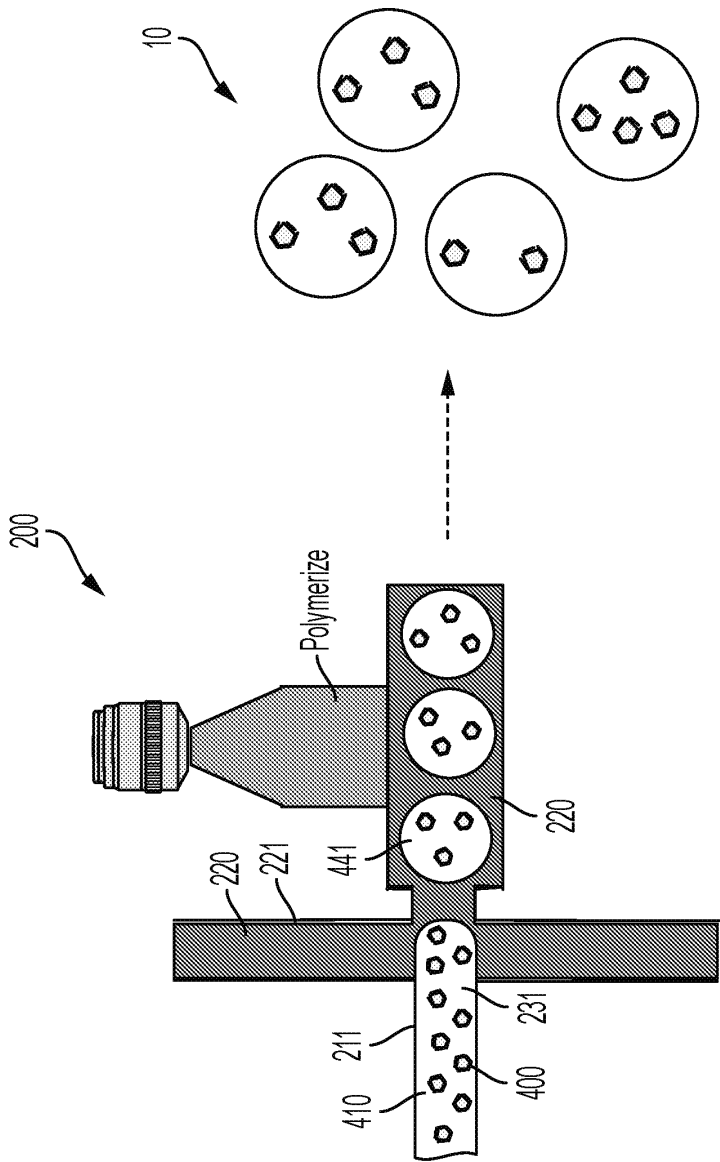


FIG. 4B

13/47

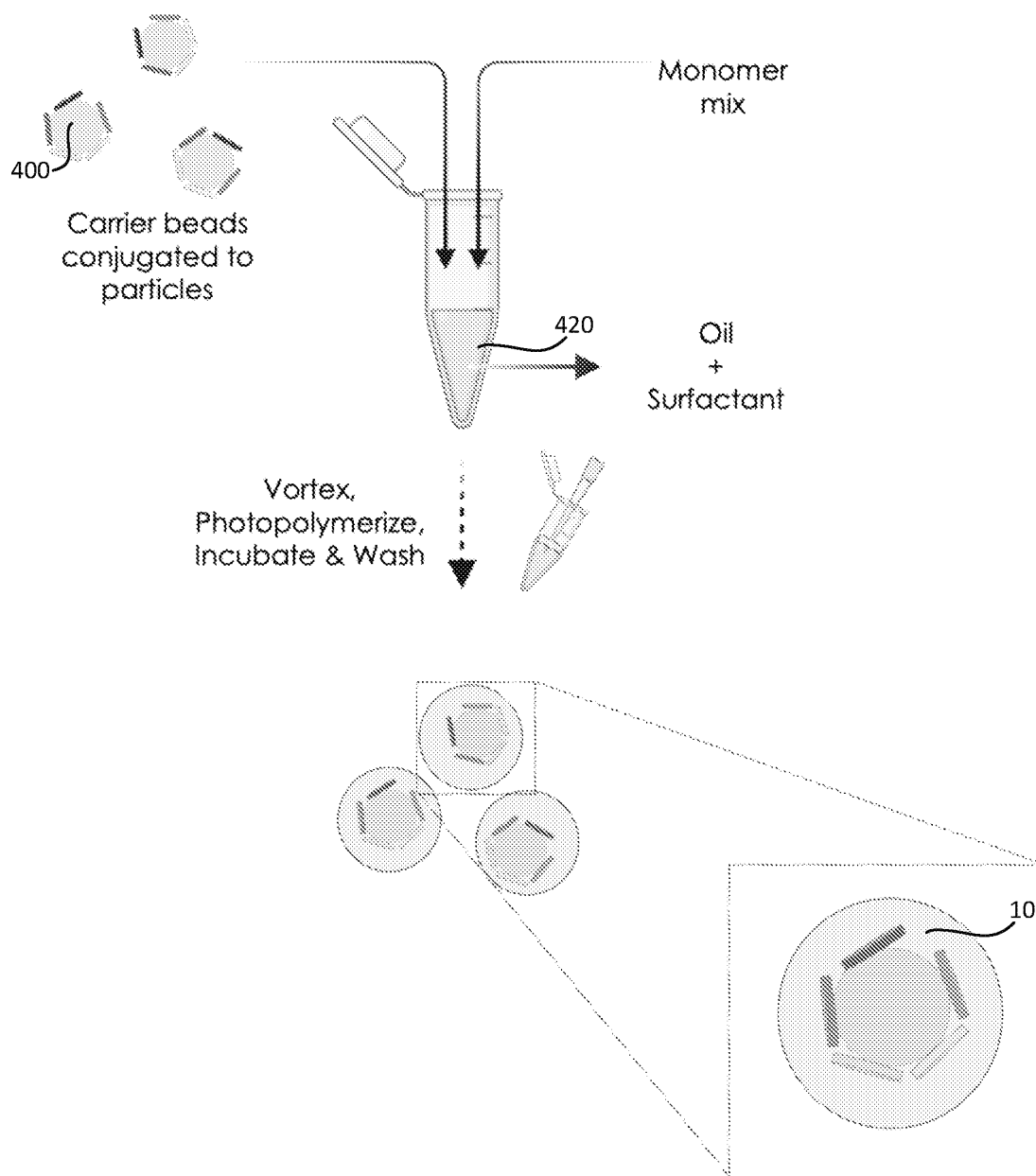


FIG. 4C

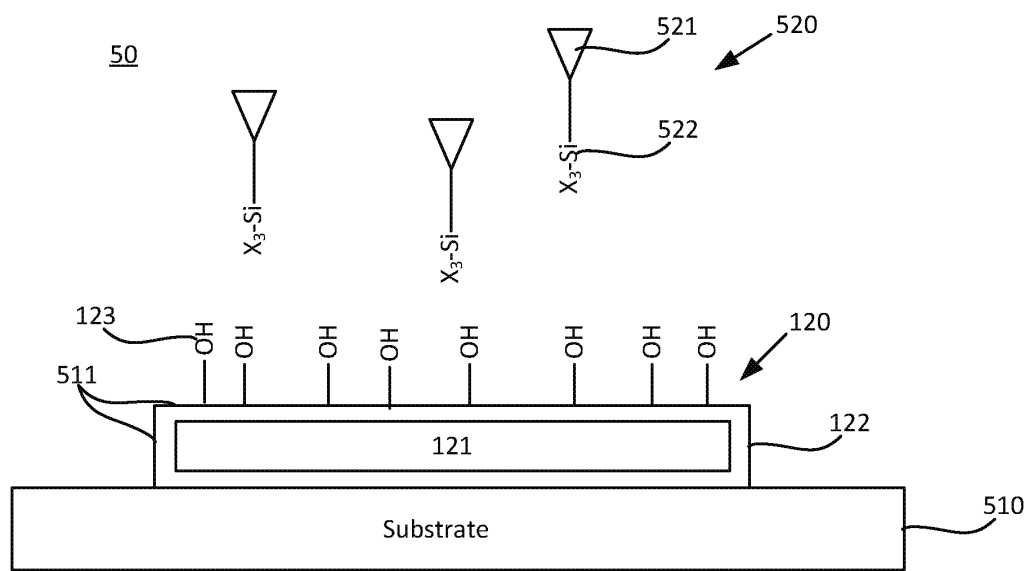


FIG. 5A

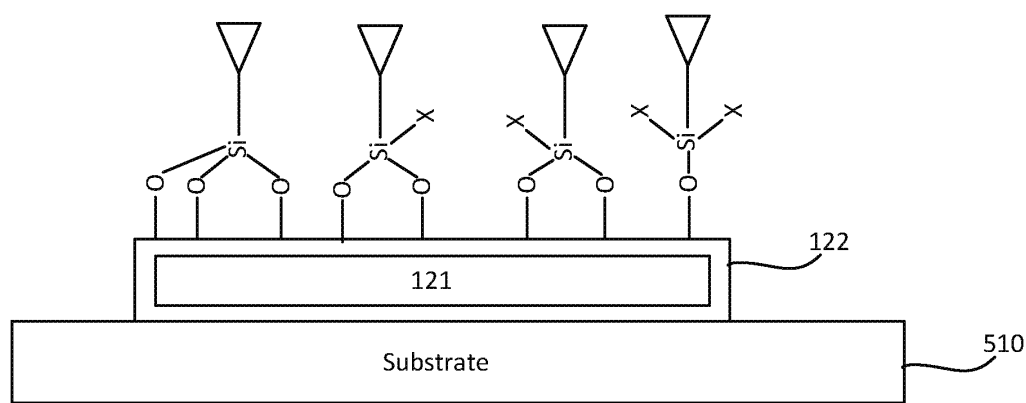


FIG. 5B

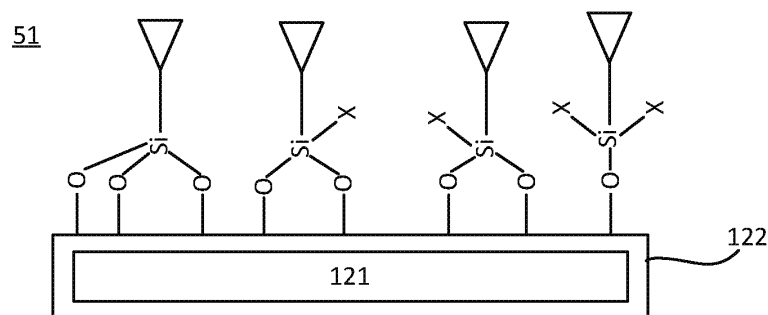
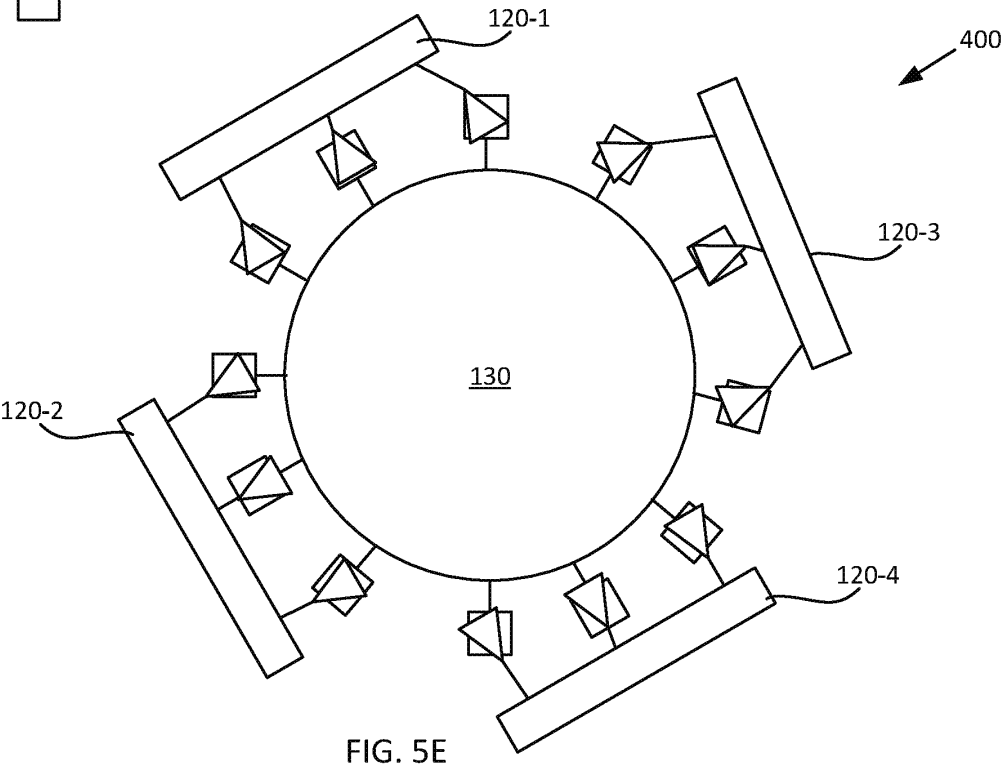
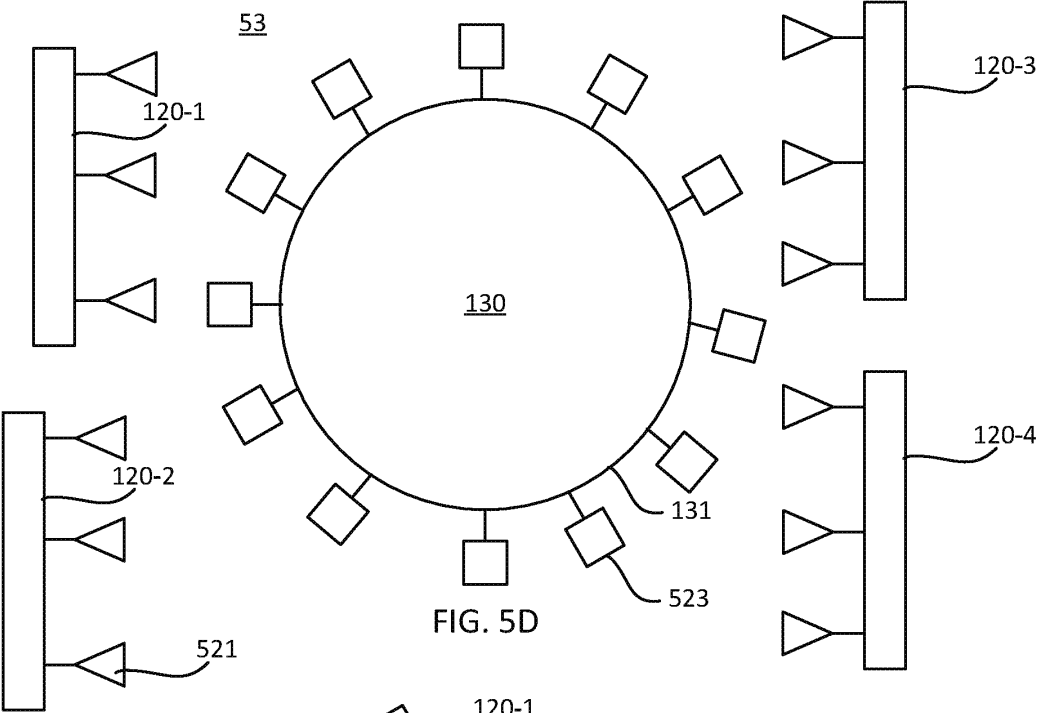


FIG. 5C



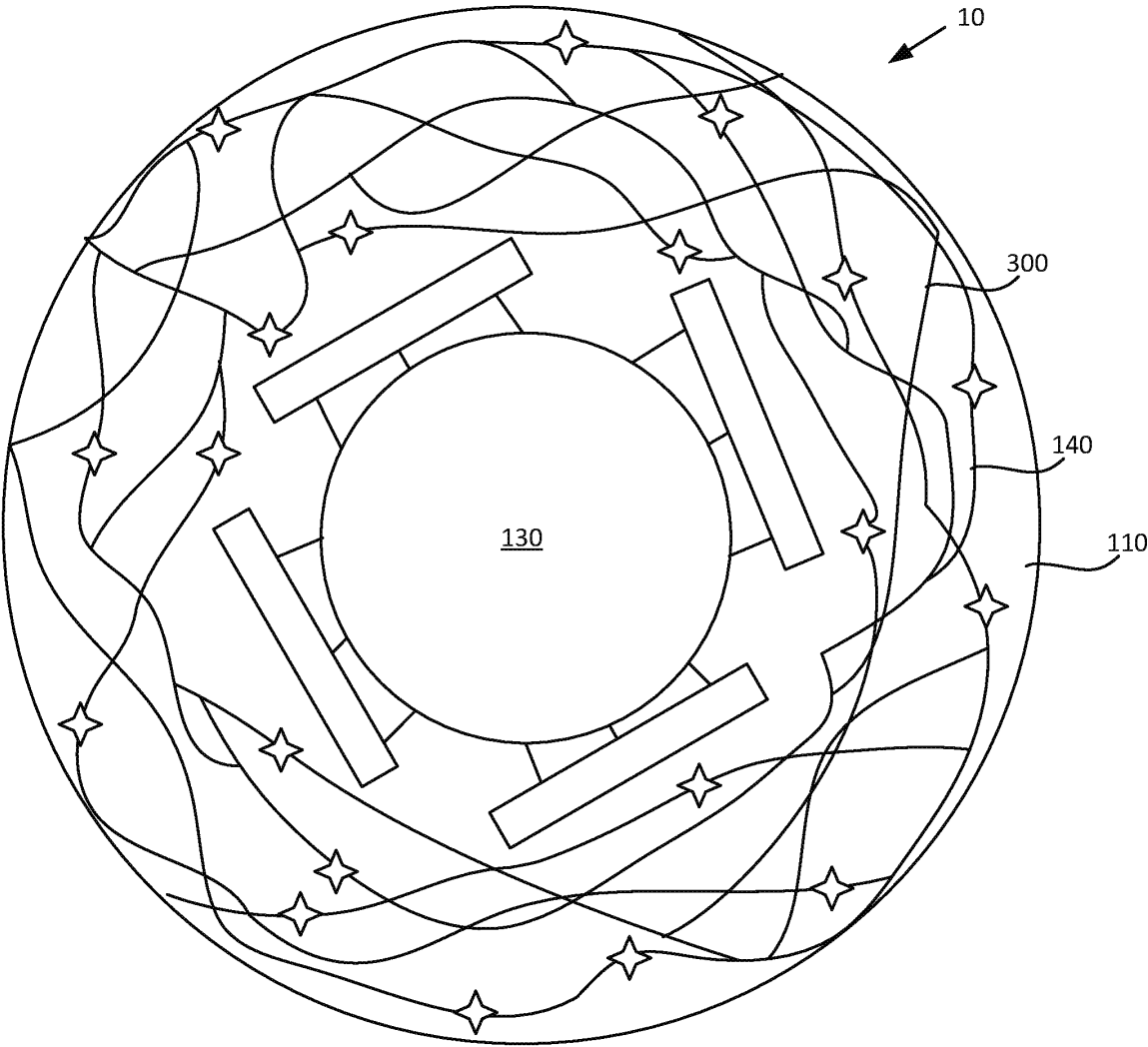
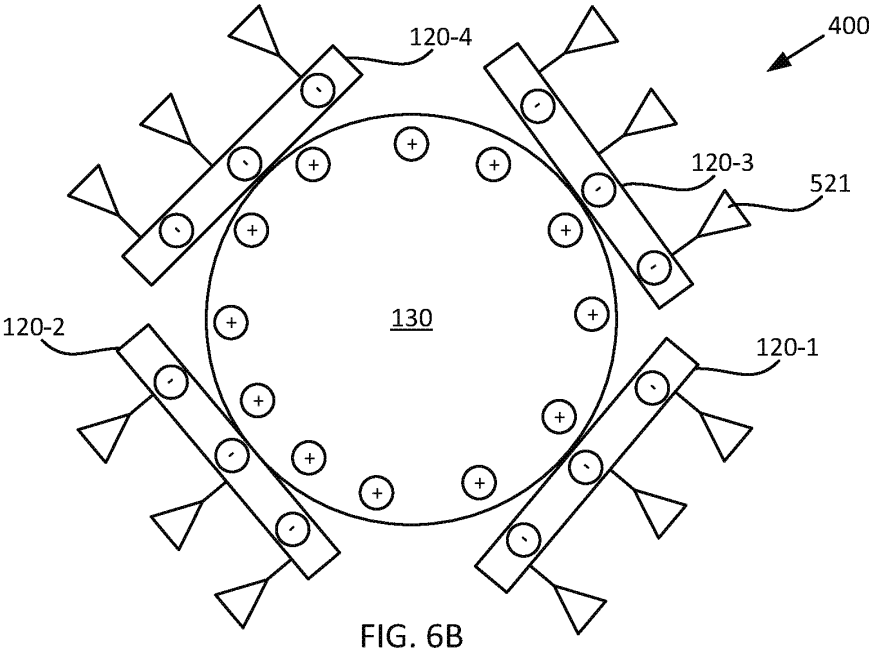
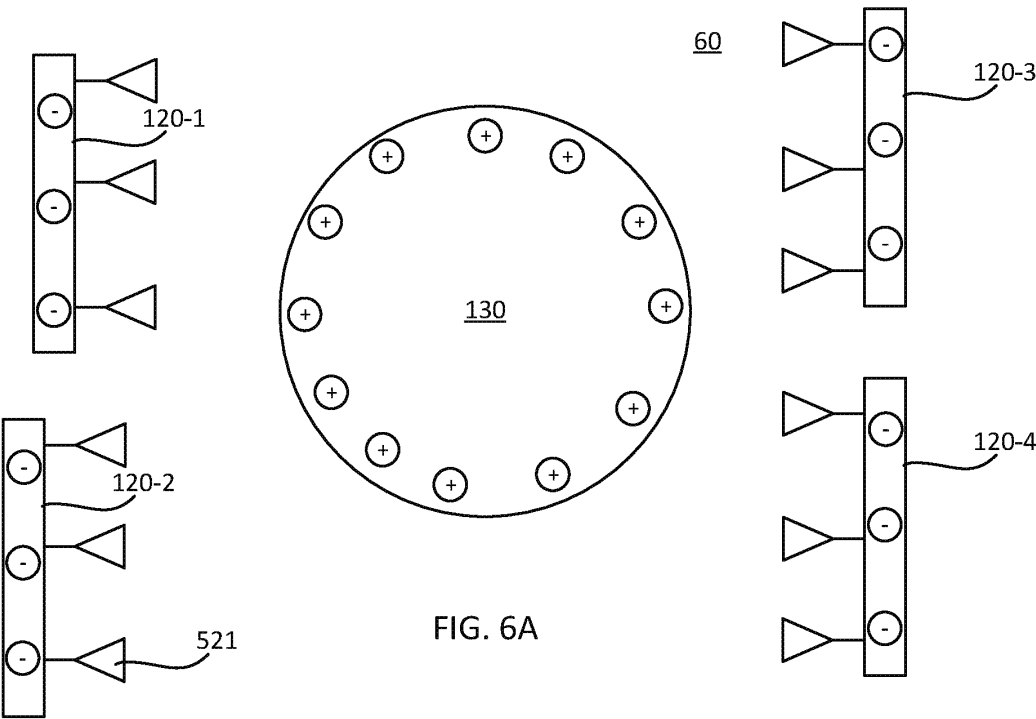


FIG. 5F



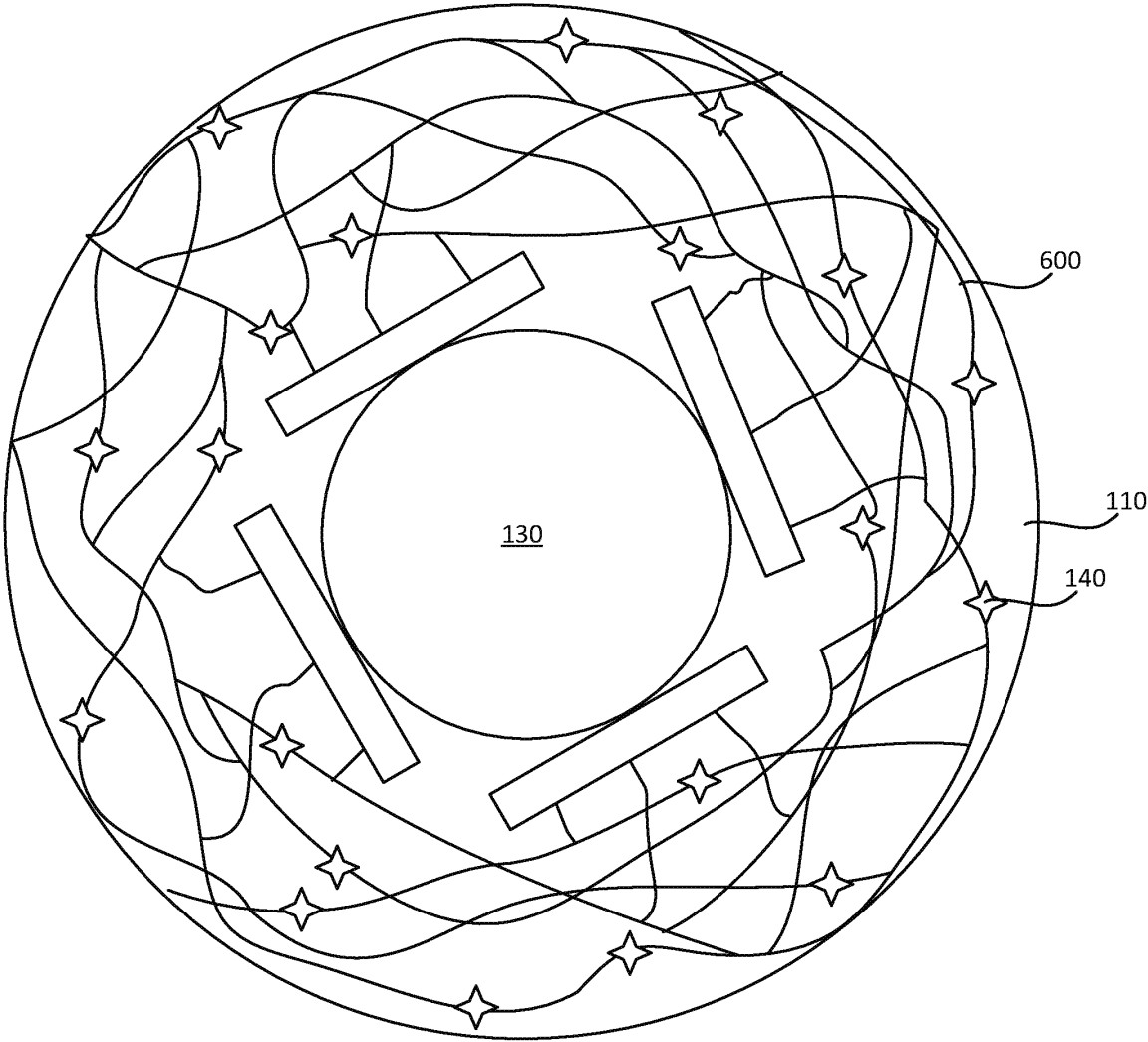


FIG. 6C

19/47

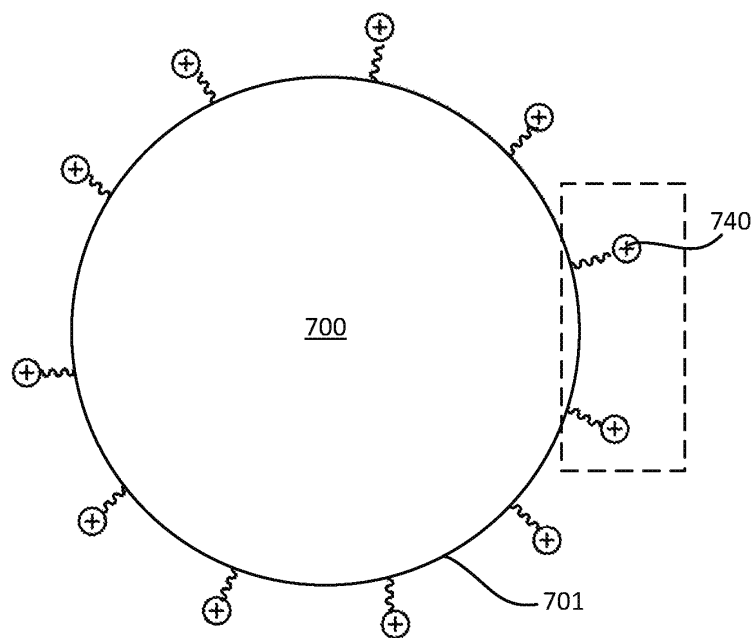


FIG. 7A

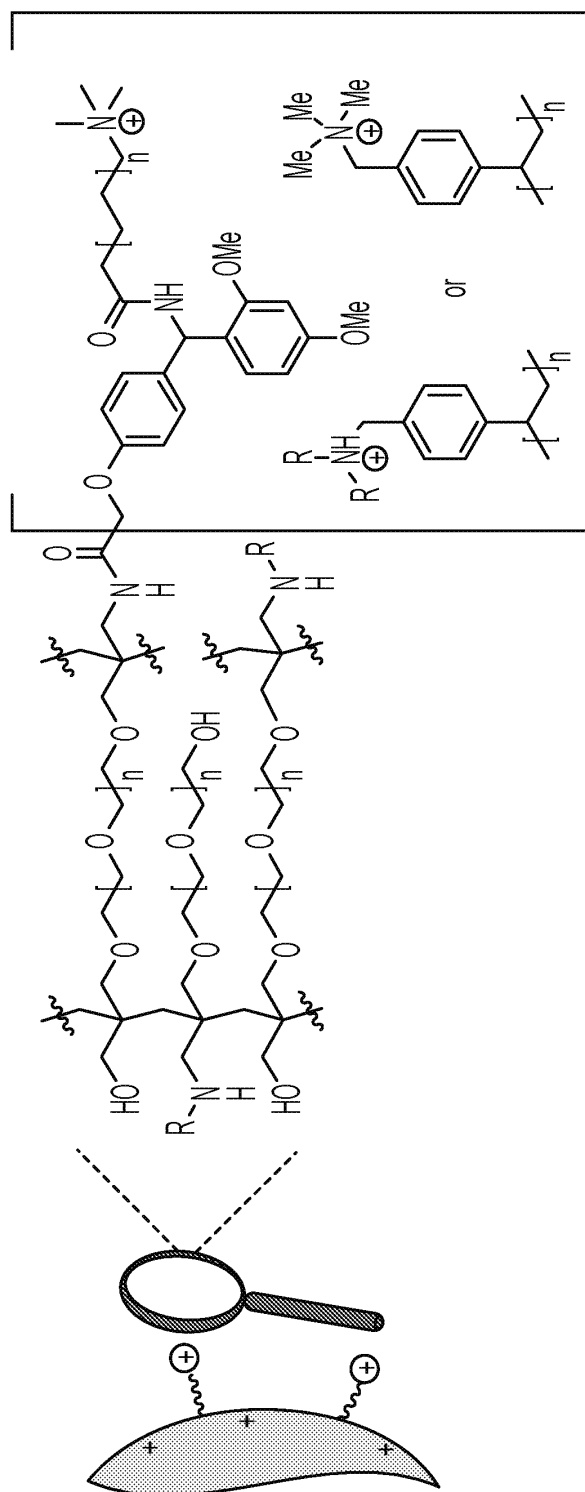


FIG. 7B

21/47

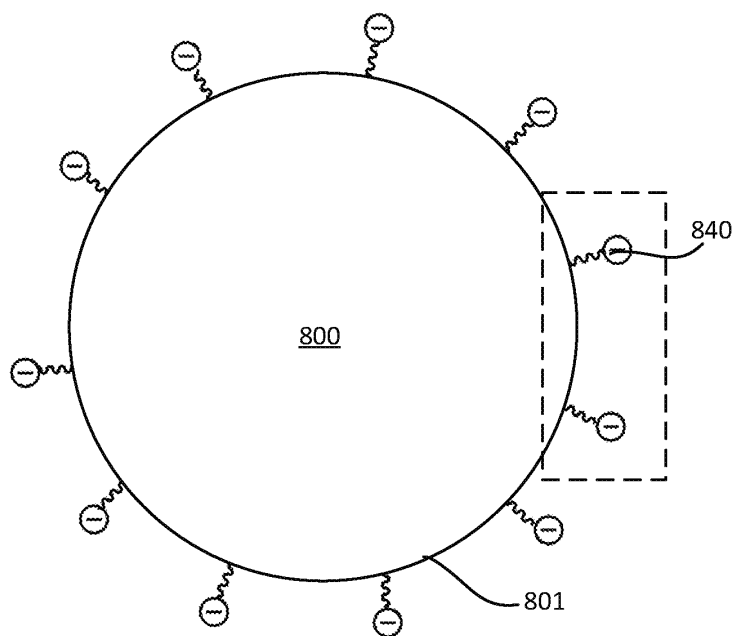


FIG. 8A

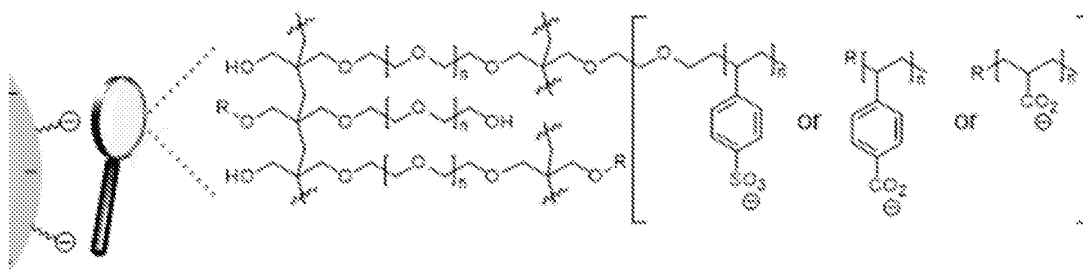
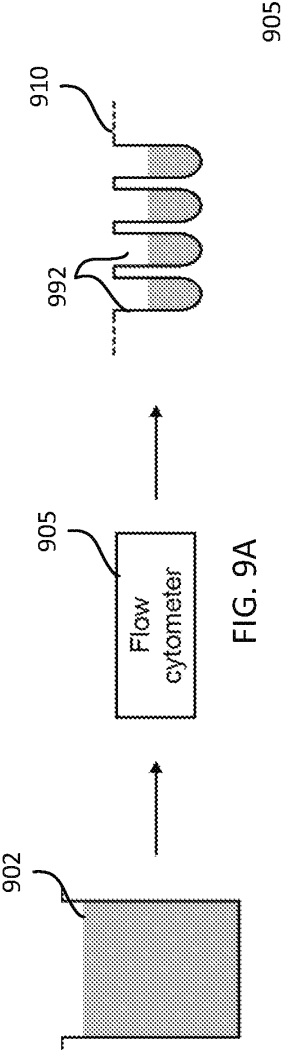


FIG. 8B



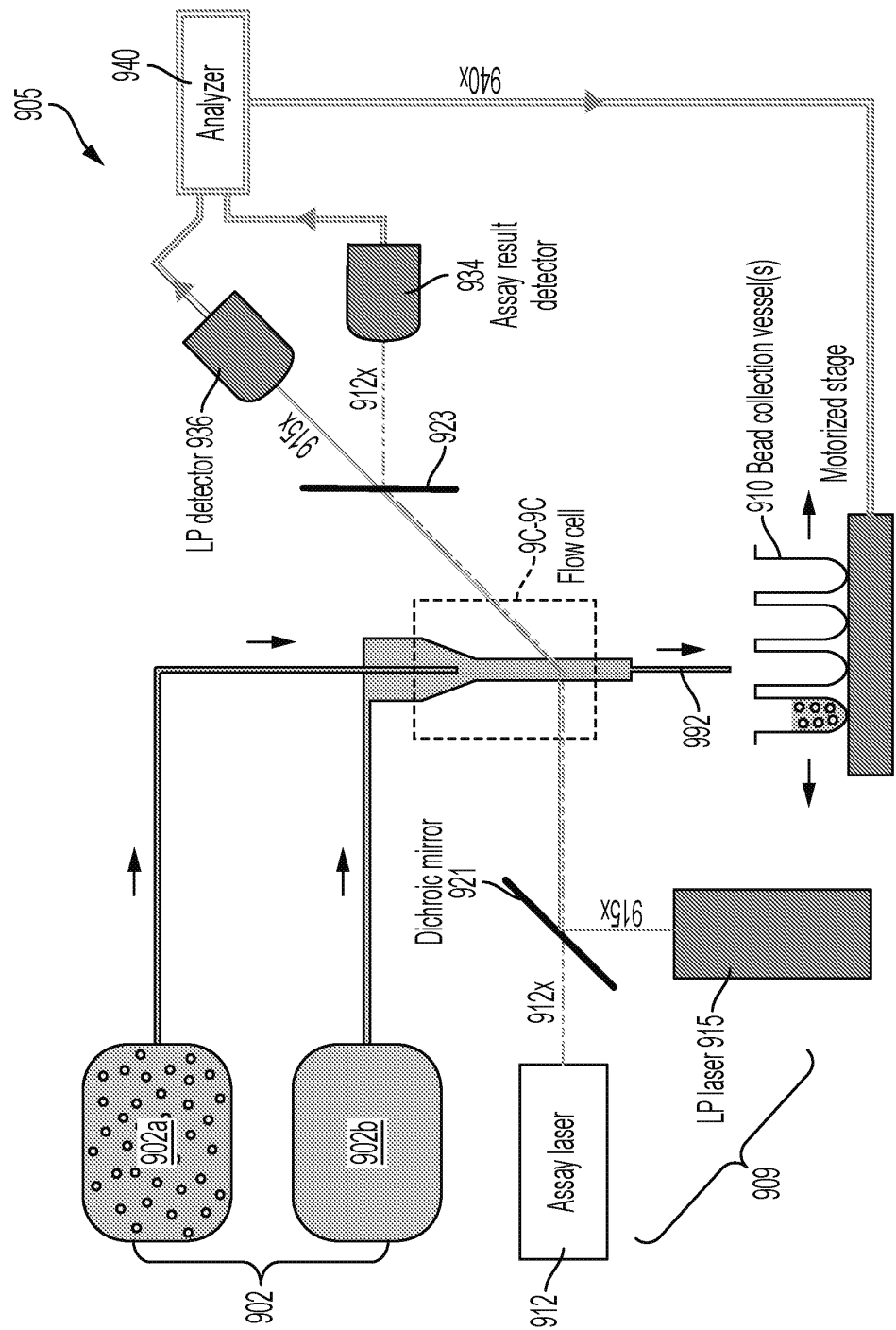


FIG. 9B

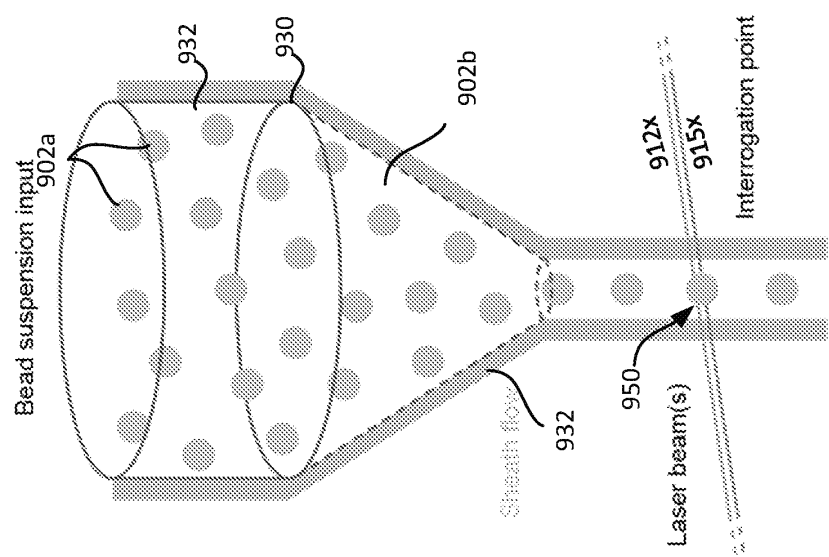
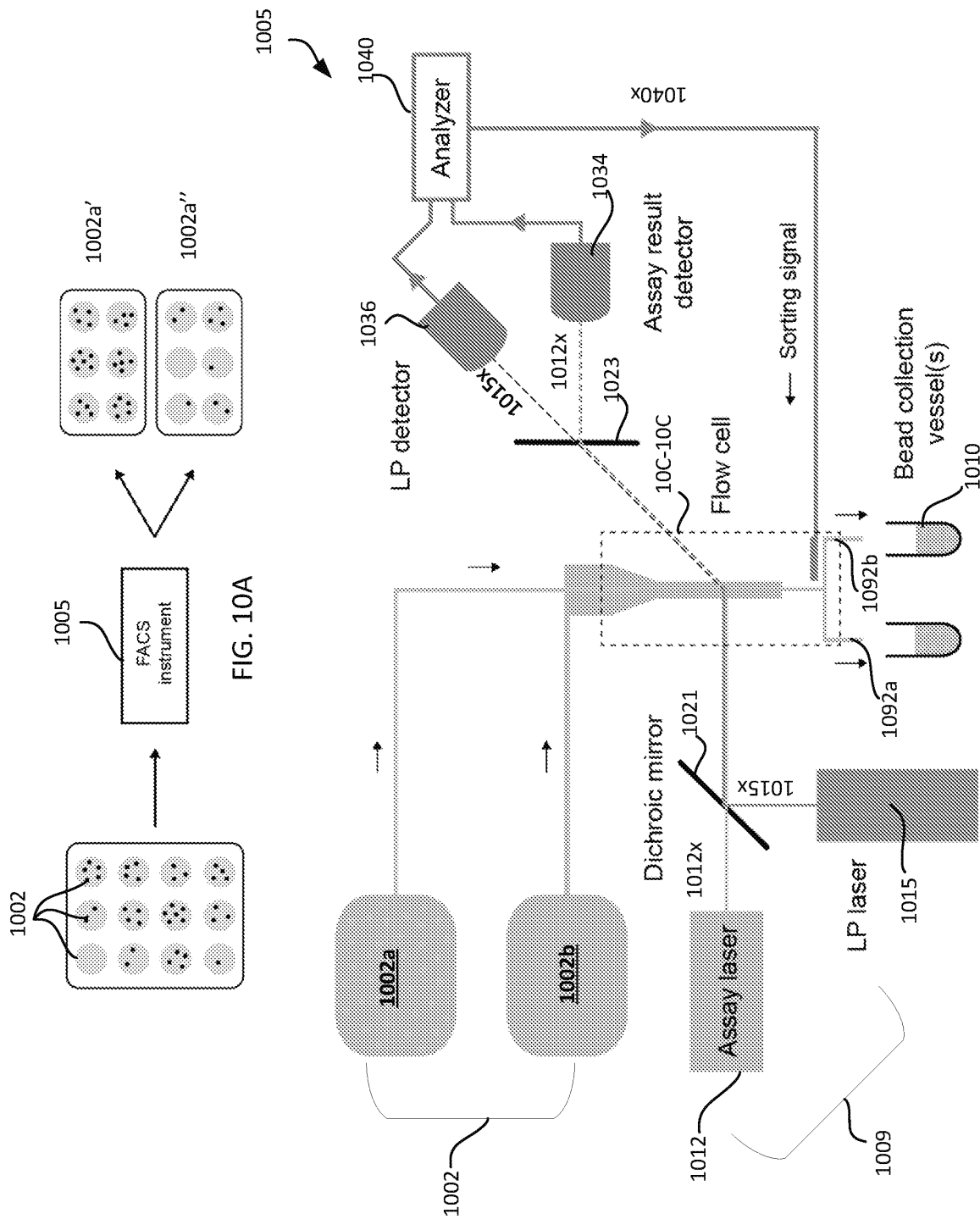
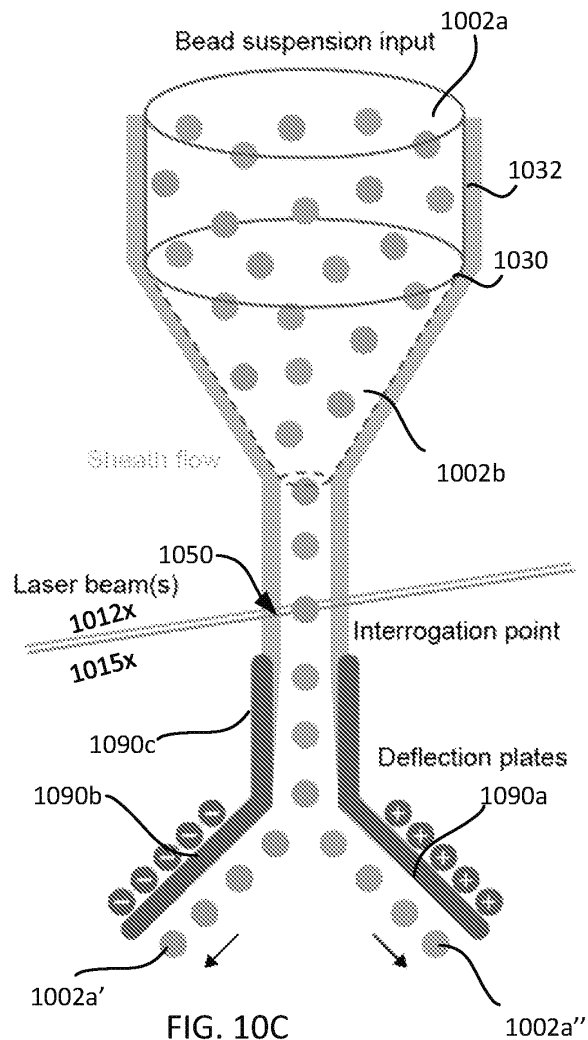


FIG. 9C





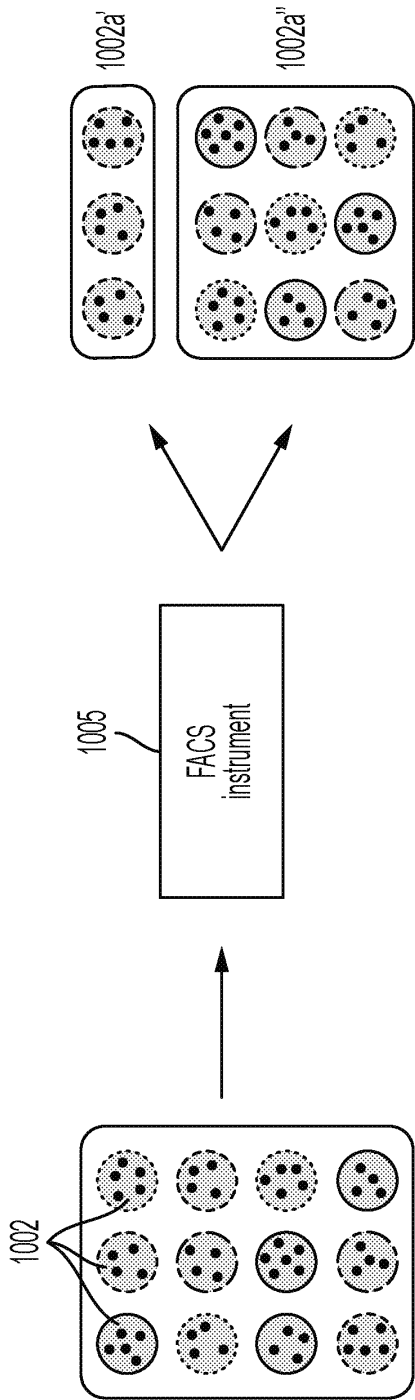
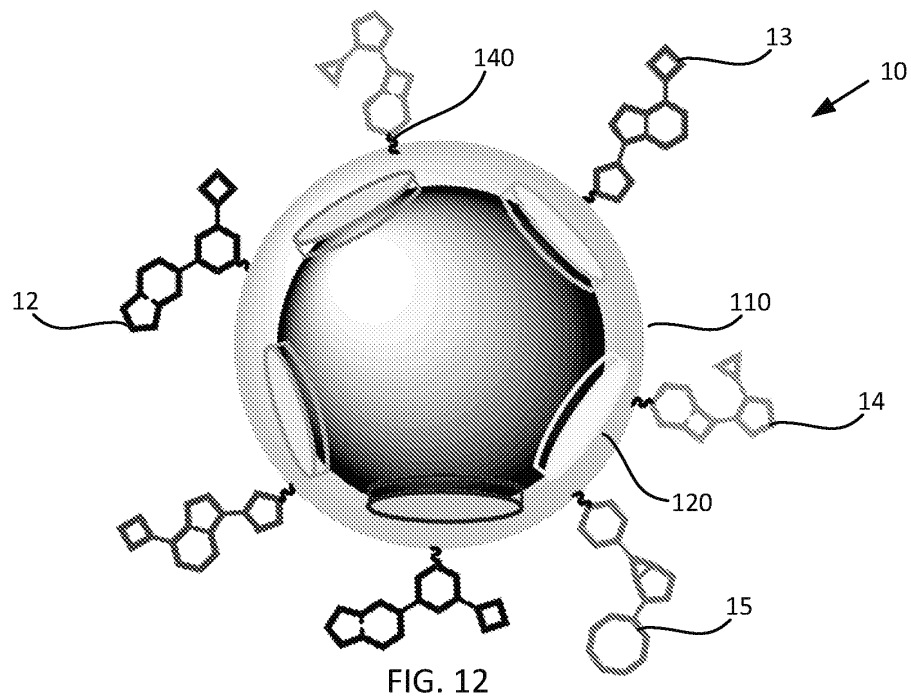
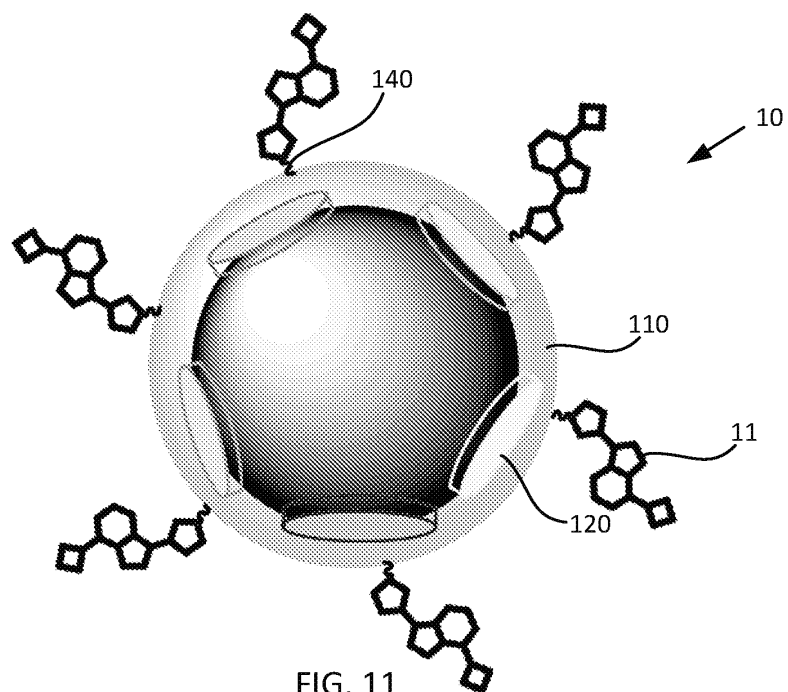
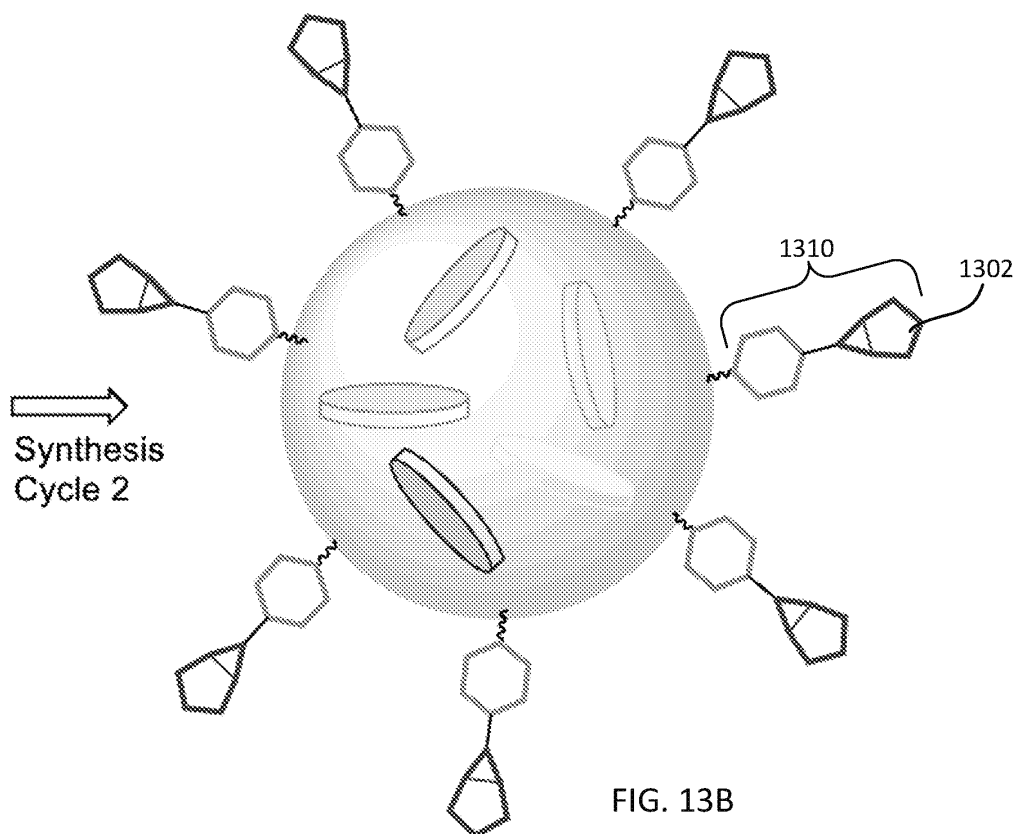
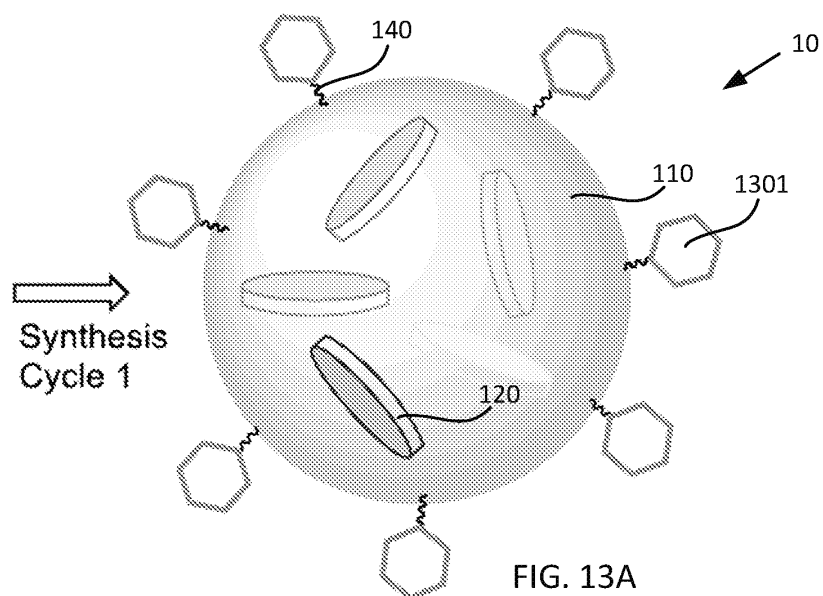


FIG. 10D

28/47





30/47

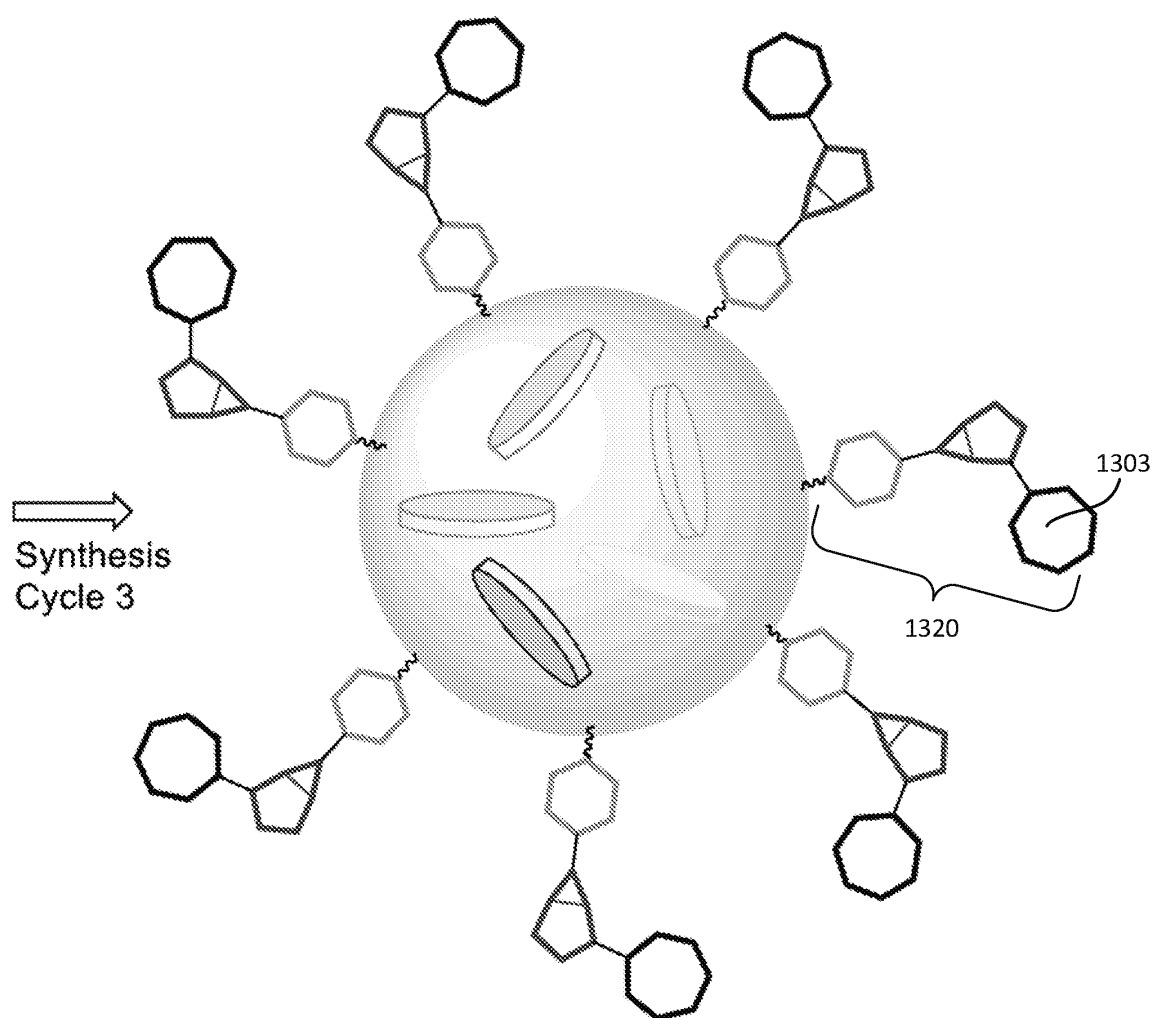


FIG. 13C

31/47

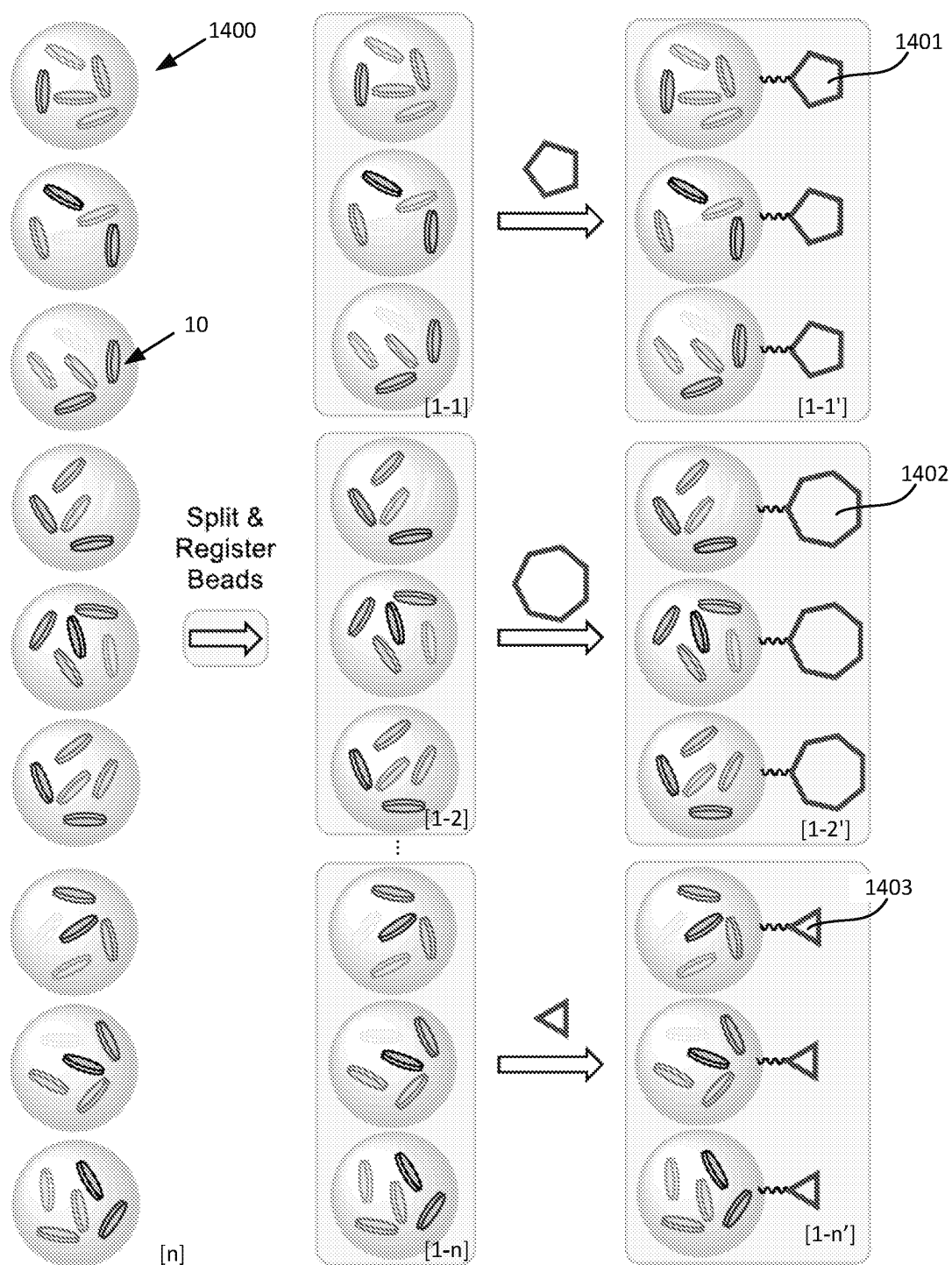


FIG. 14A

32/47

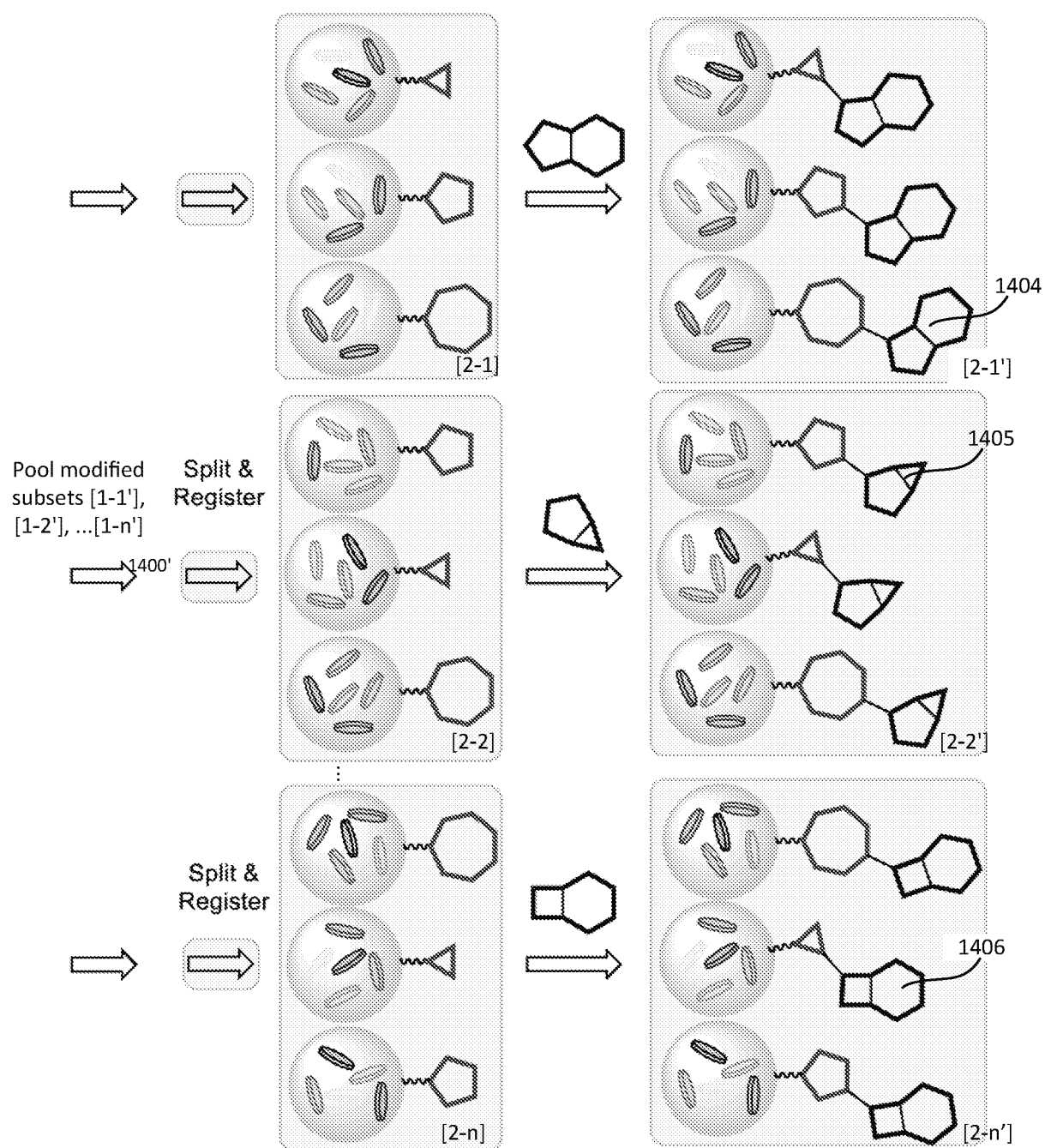


FIG. 14B

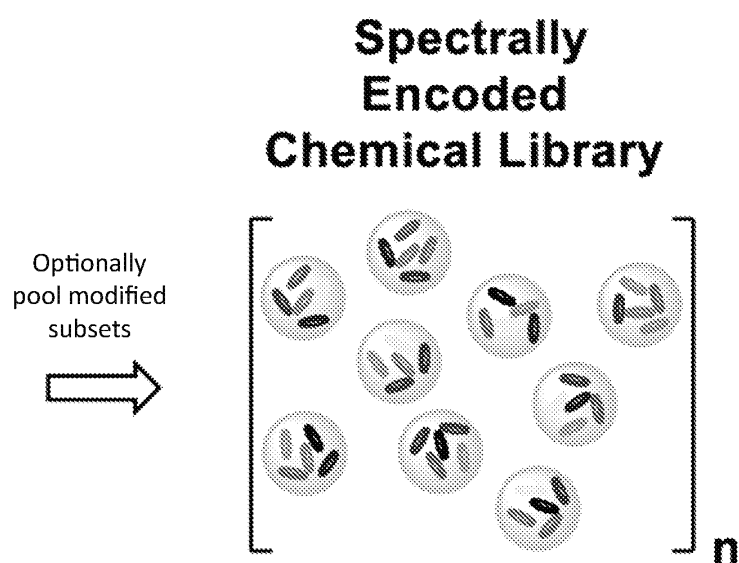


FIG. 14C

34/47

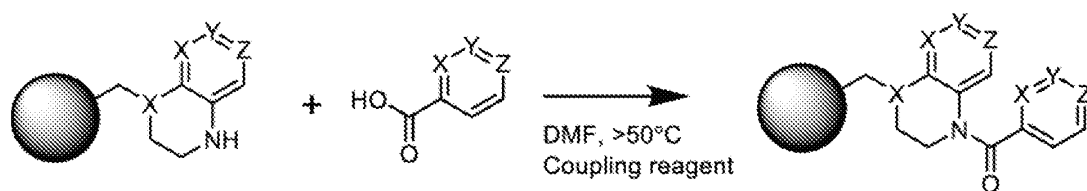


FIG. 15A



FIG. 15B



FIG. 15C

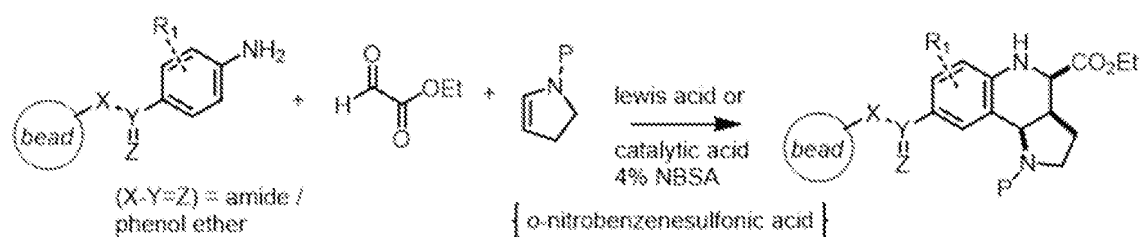


FIG. 15D

35/47

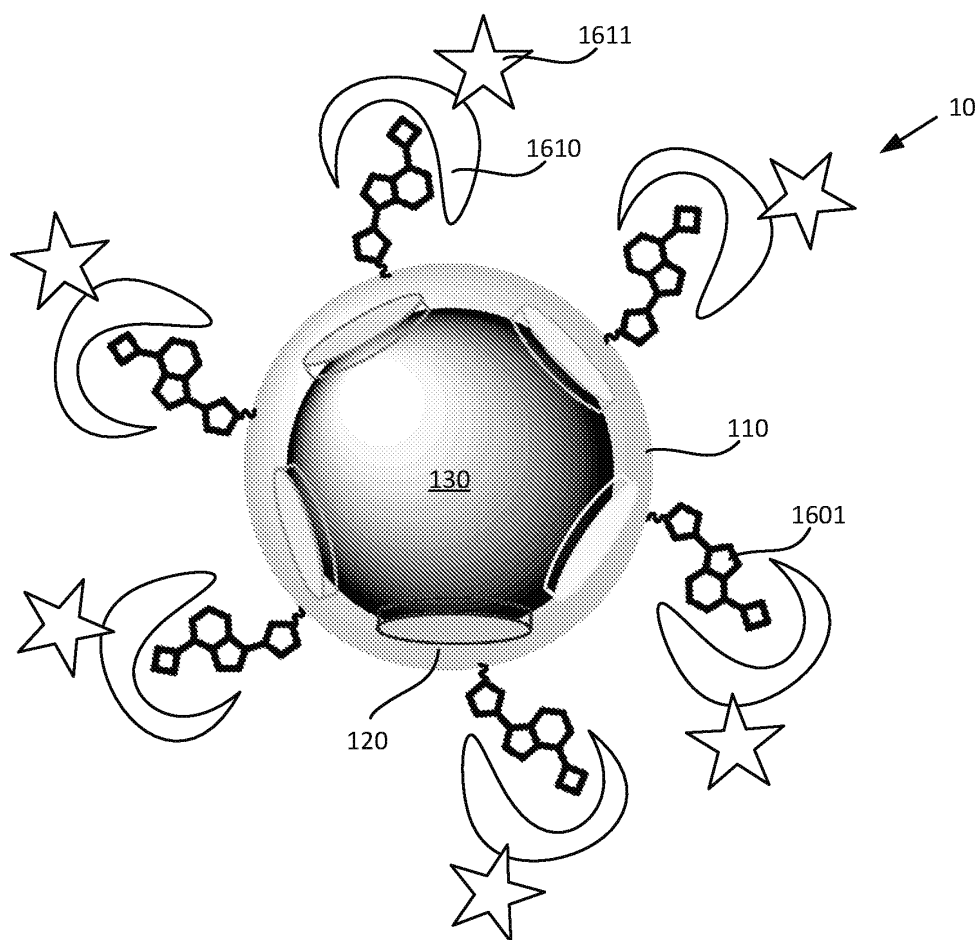
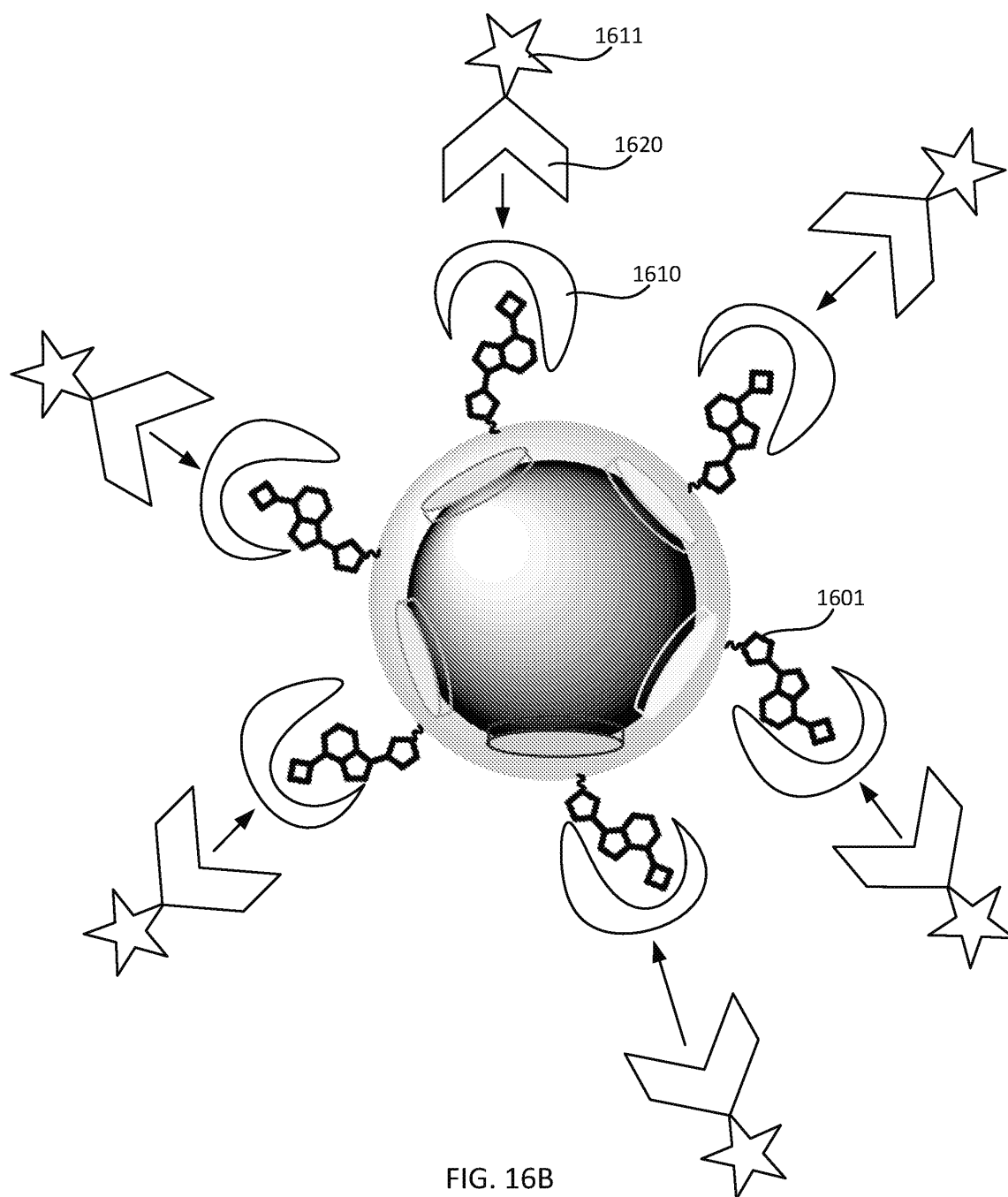


FIG. 16A

36/47



37/47

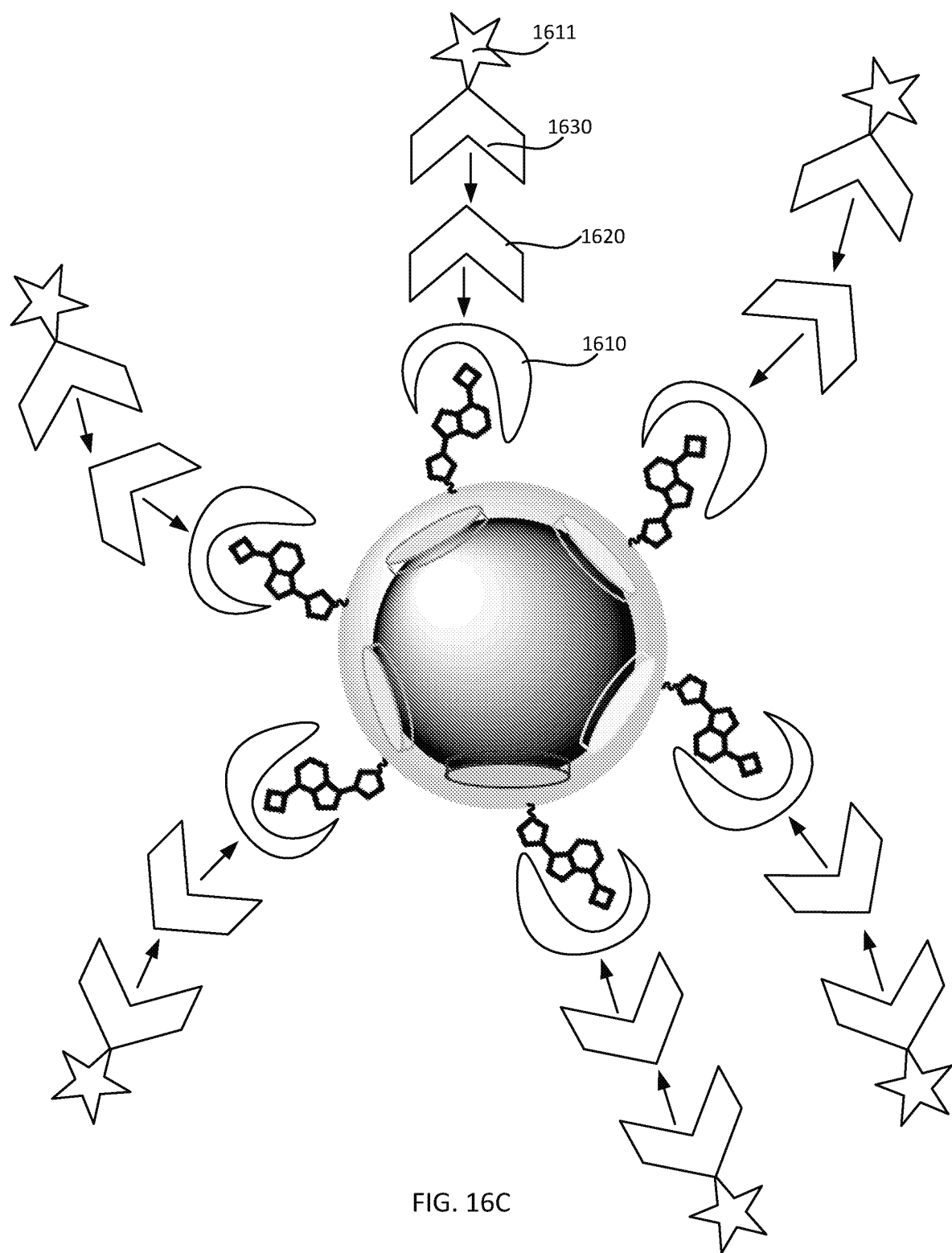


FIG. 16C

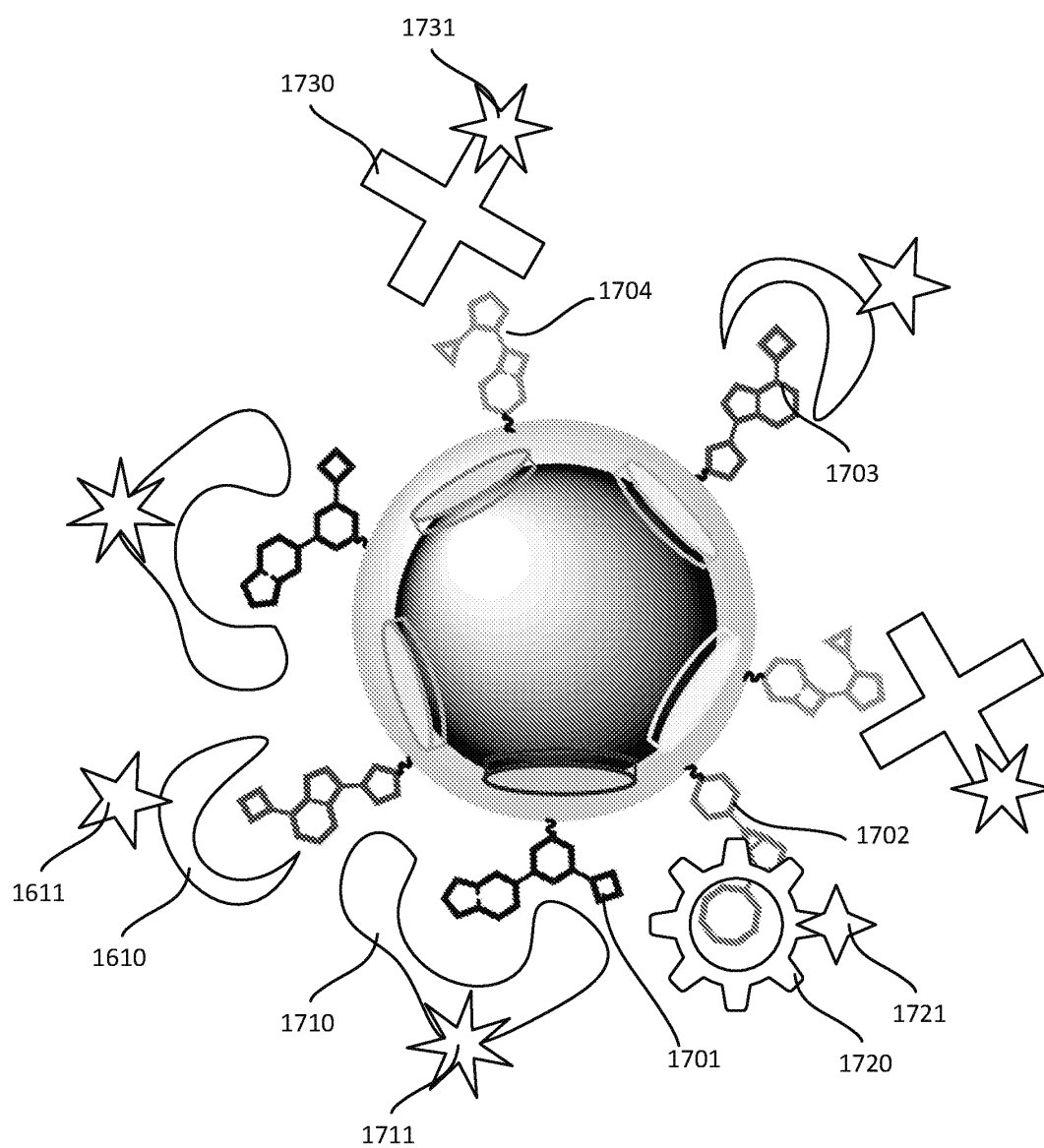


FIG. 17

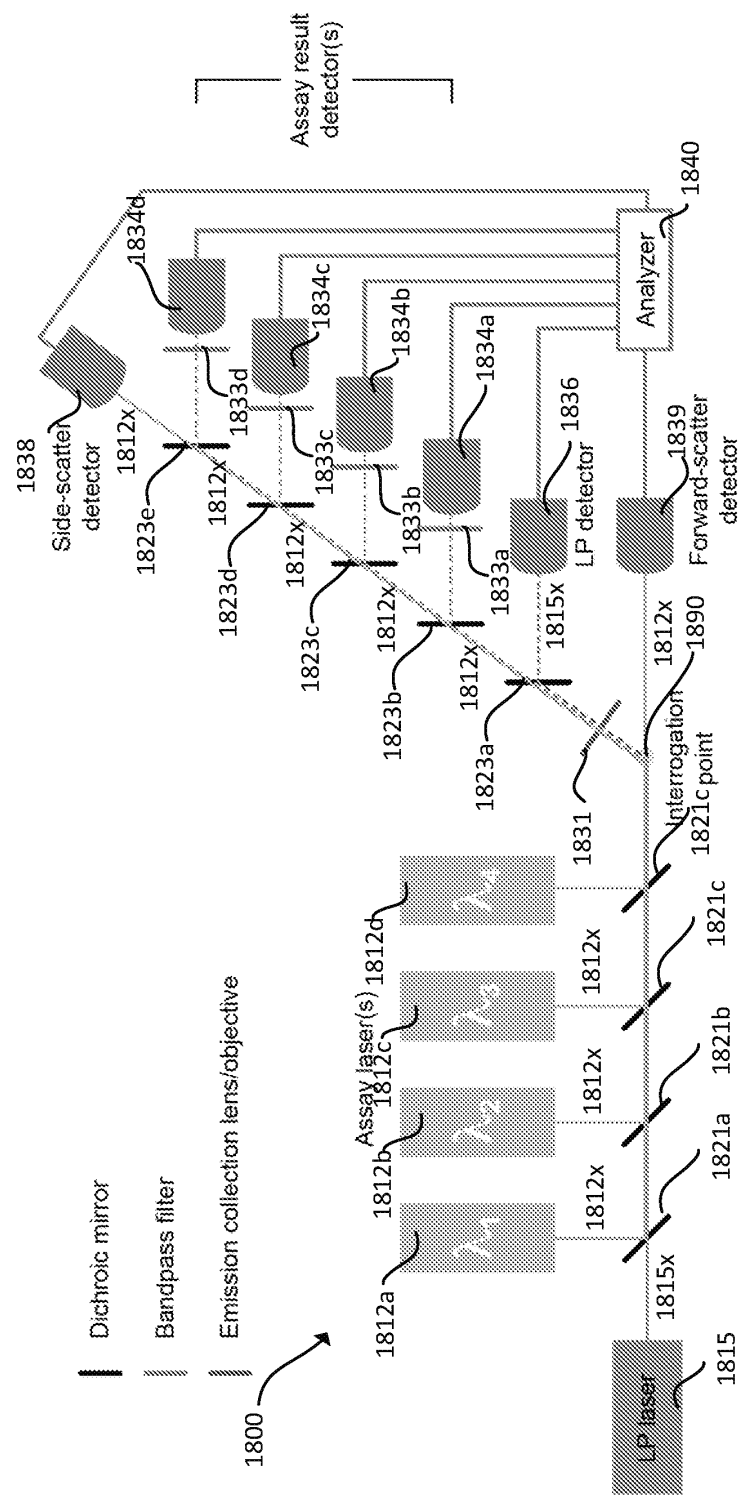


FIG. 18

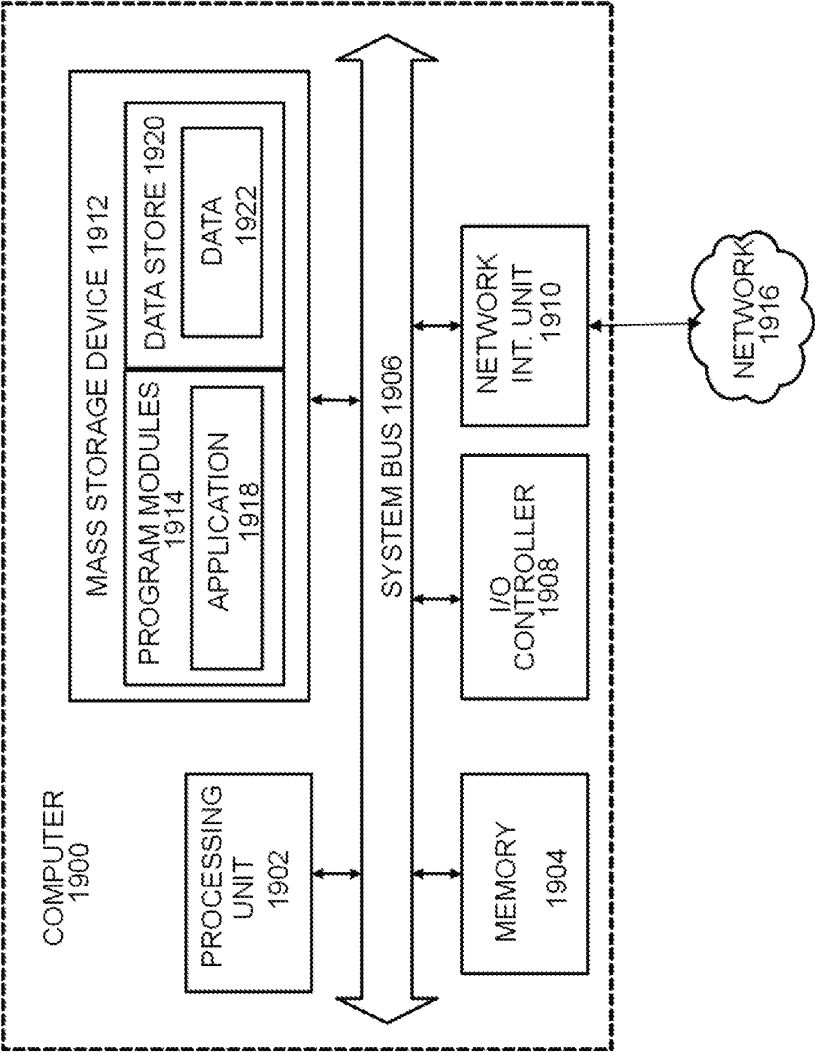


FIG. 19

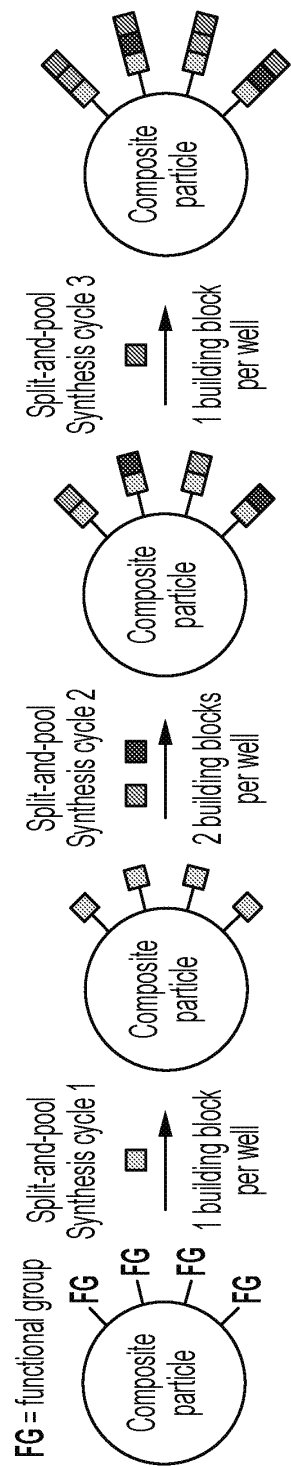


FIG. 20A

FG = functional group
PG = protecting group

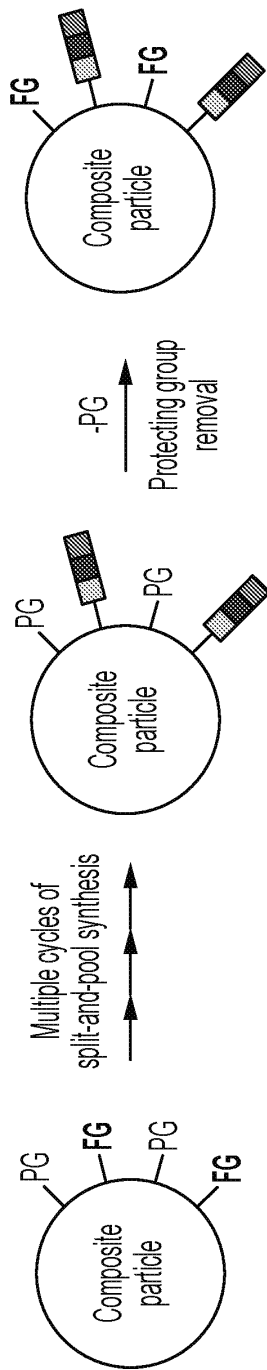
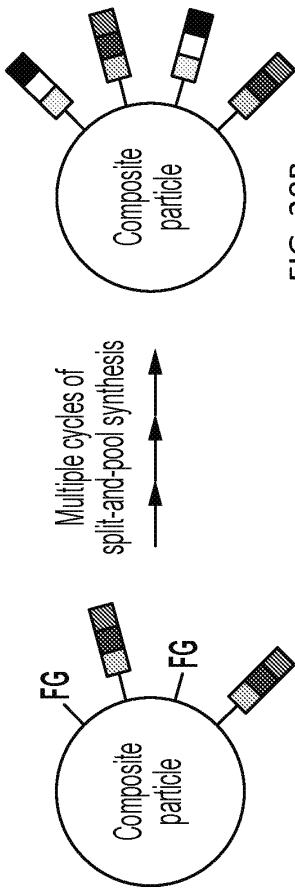


FIG. 20B



Encoded Beads: embedded with lase particles

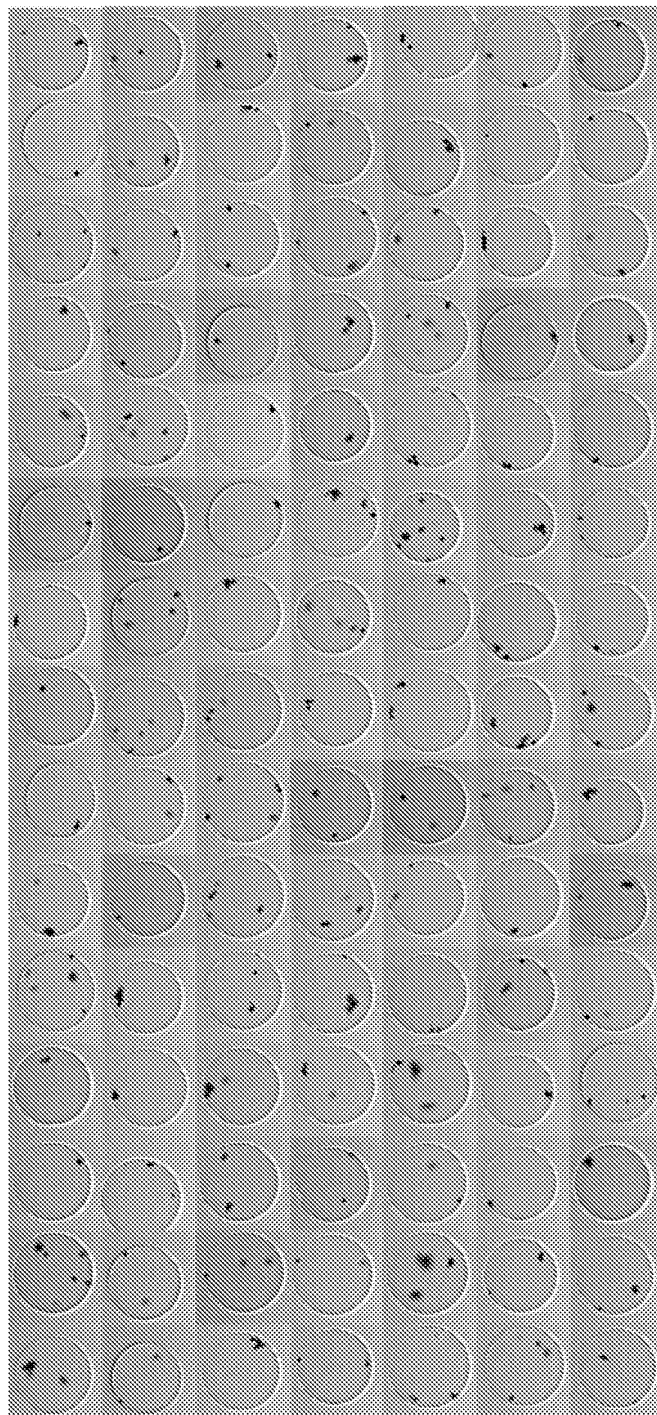


FIG. 21

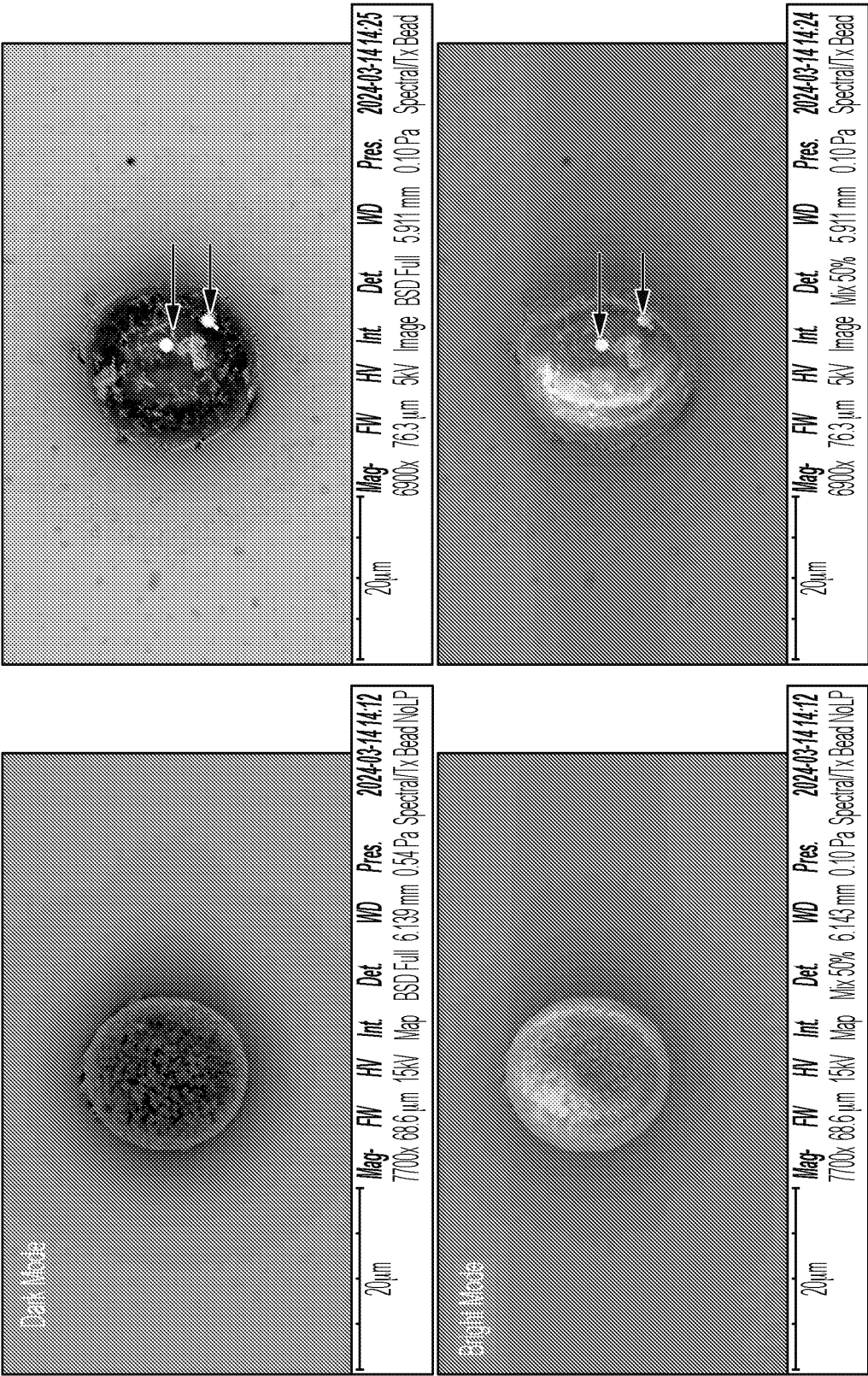


FIG. 22

44/47

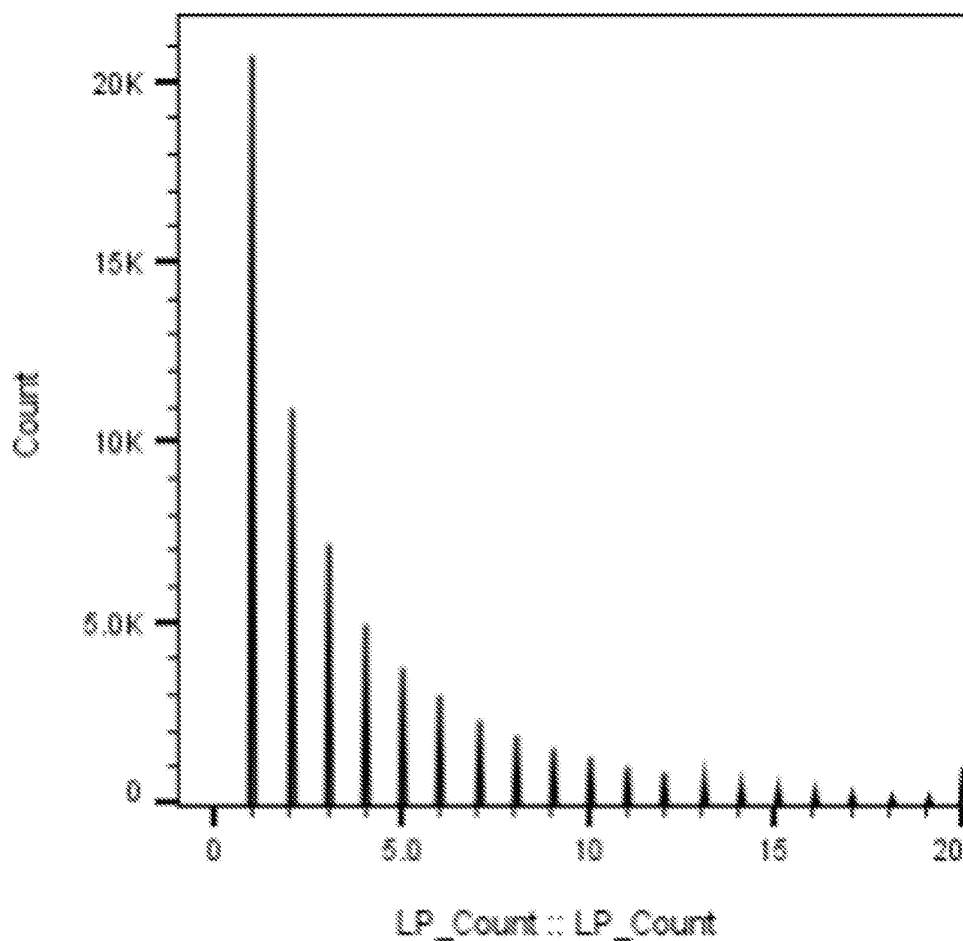


FIG. 23

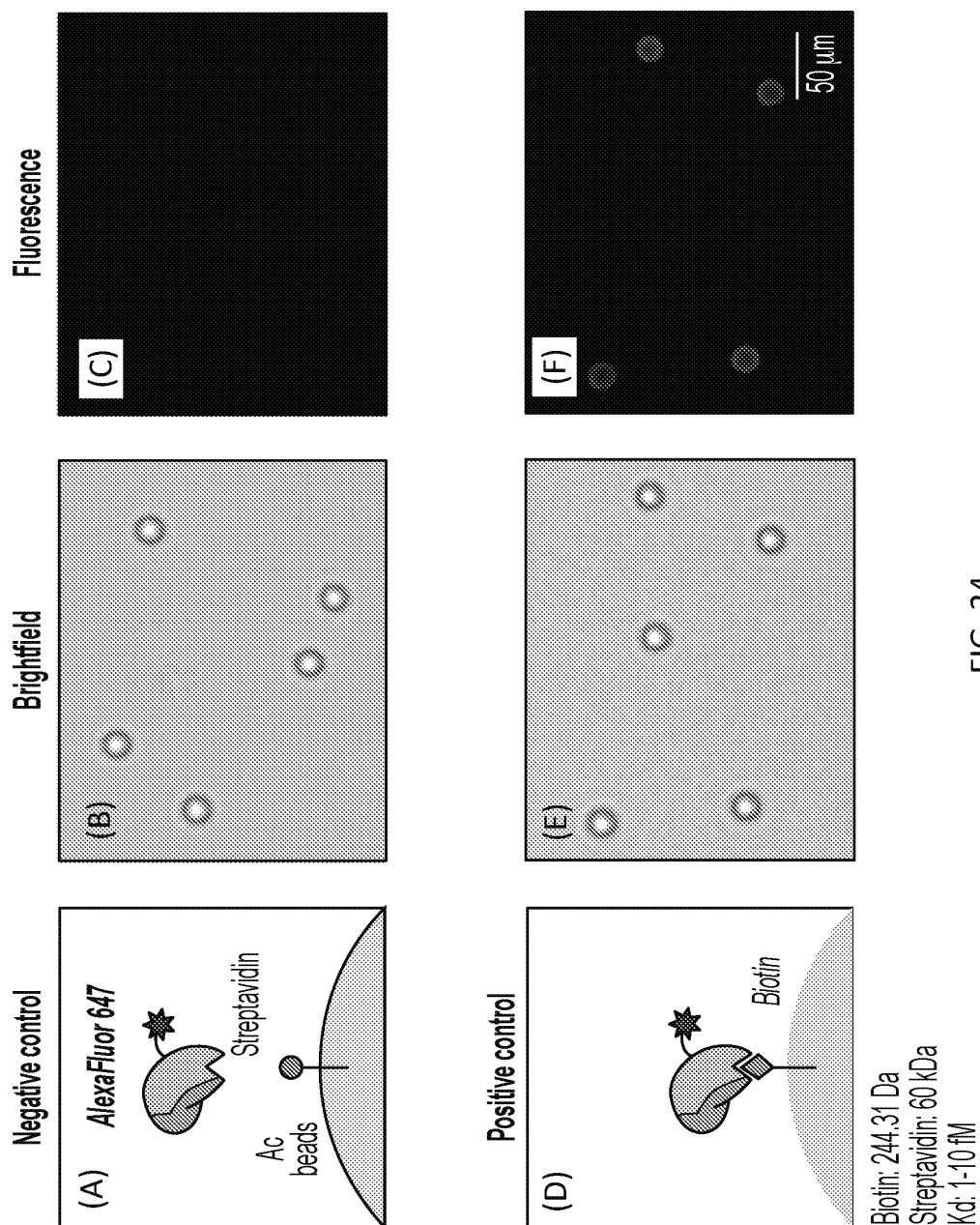


FIG. 24

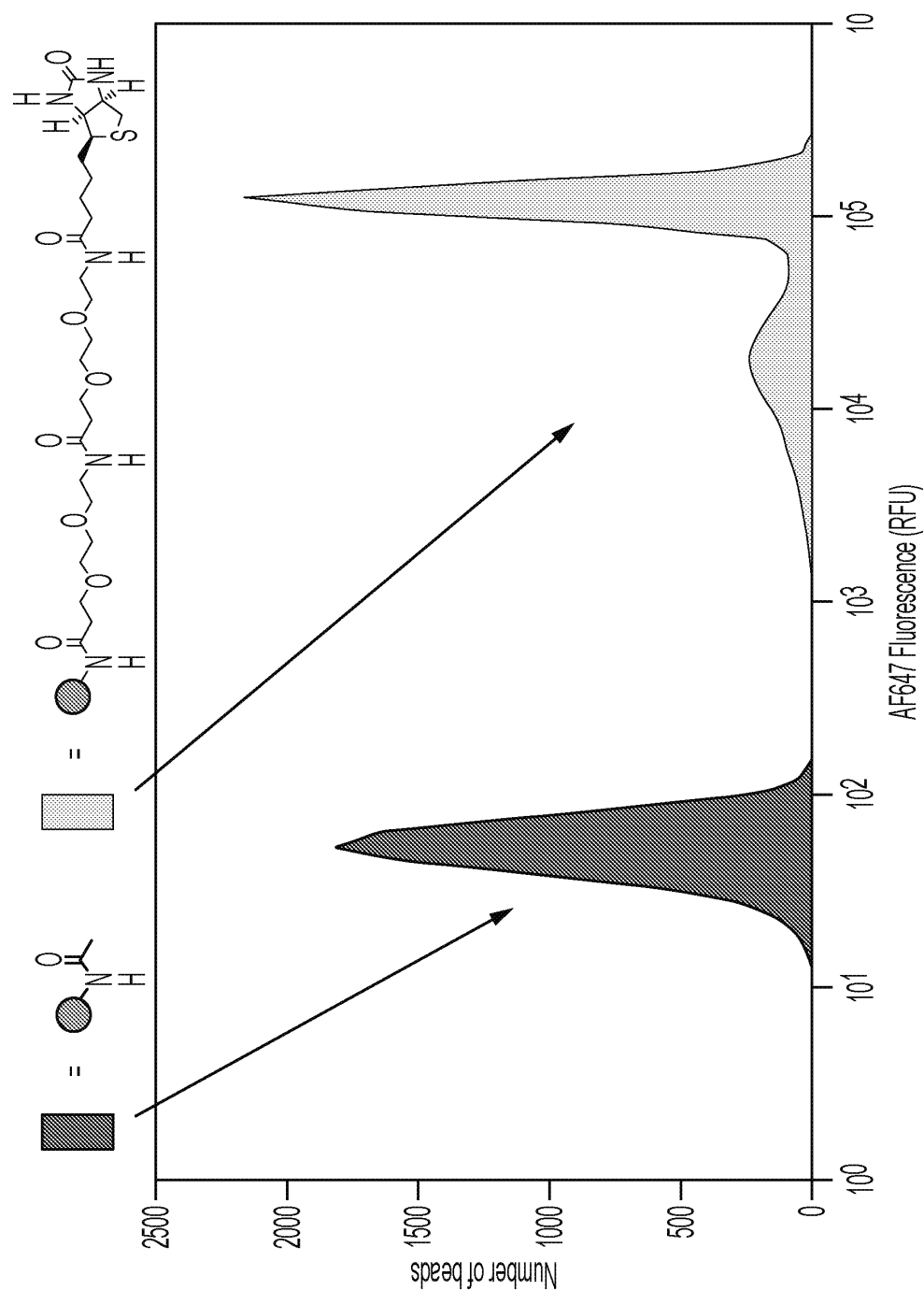


FIG. 25

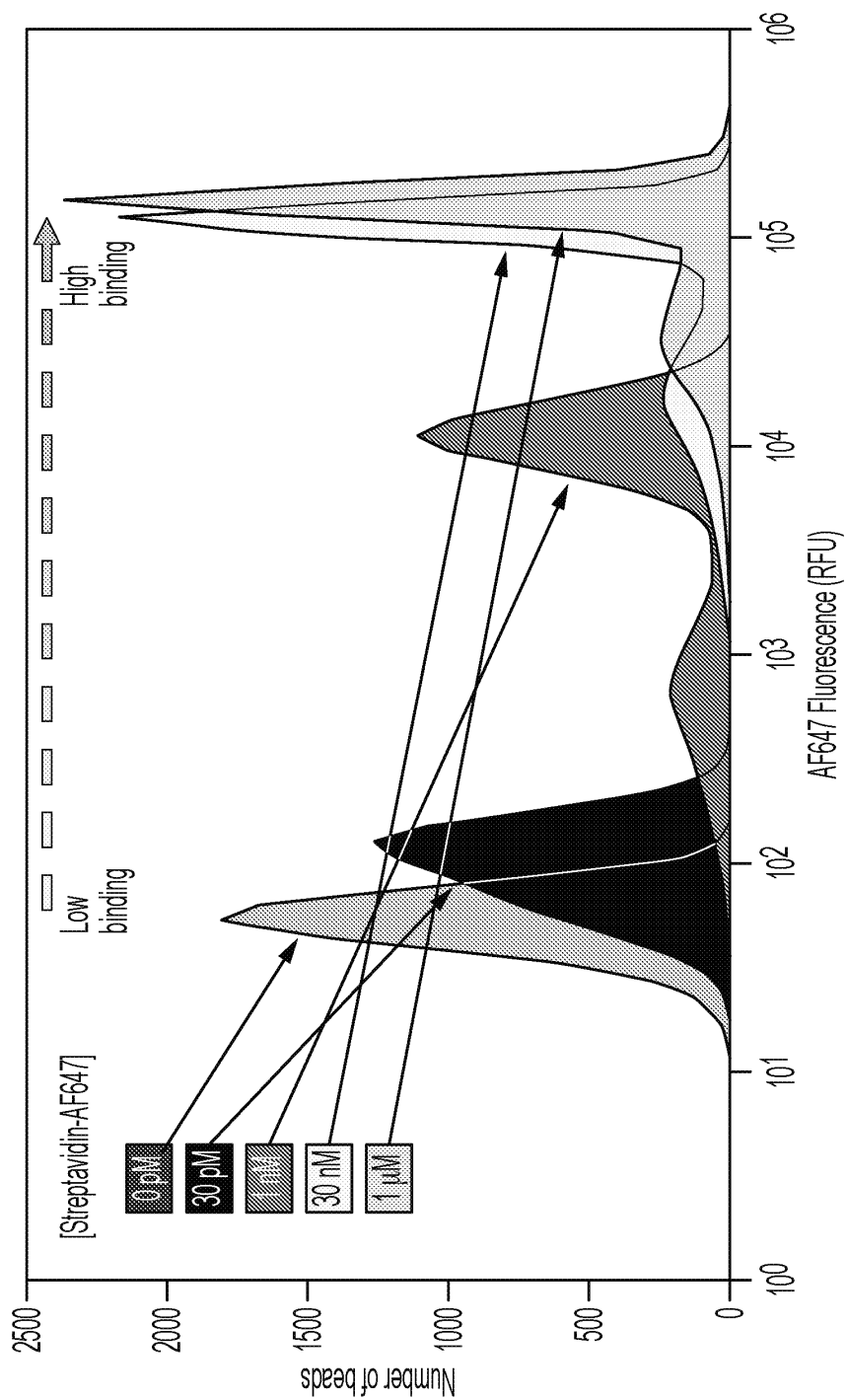


FIG. 26