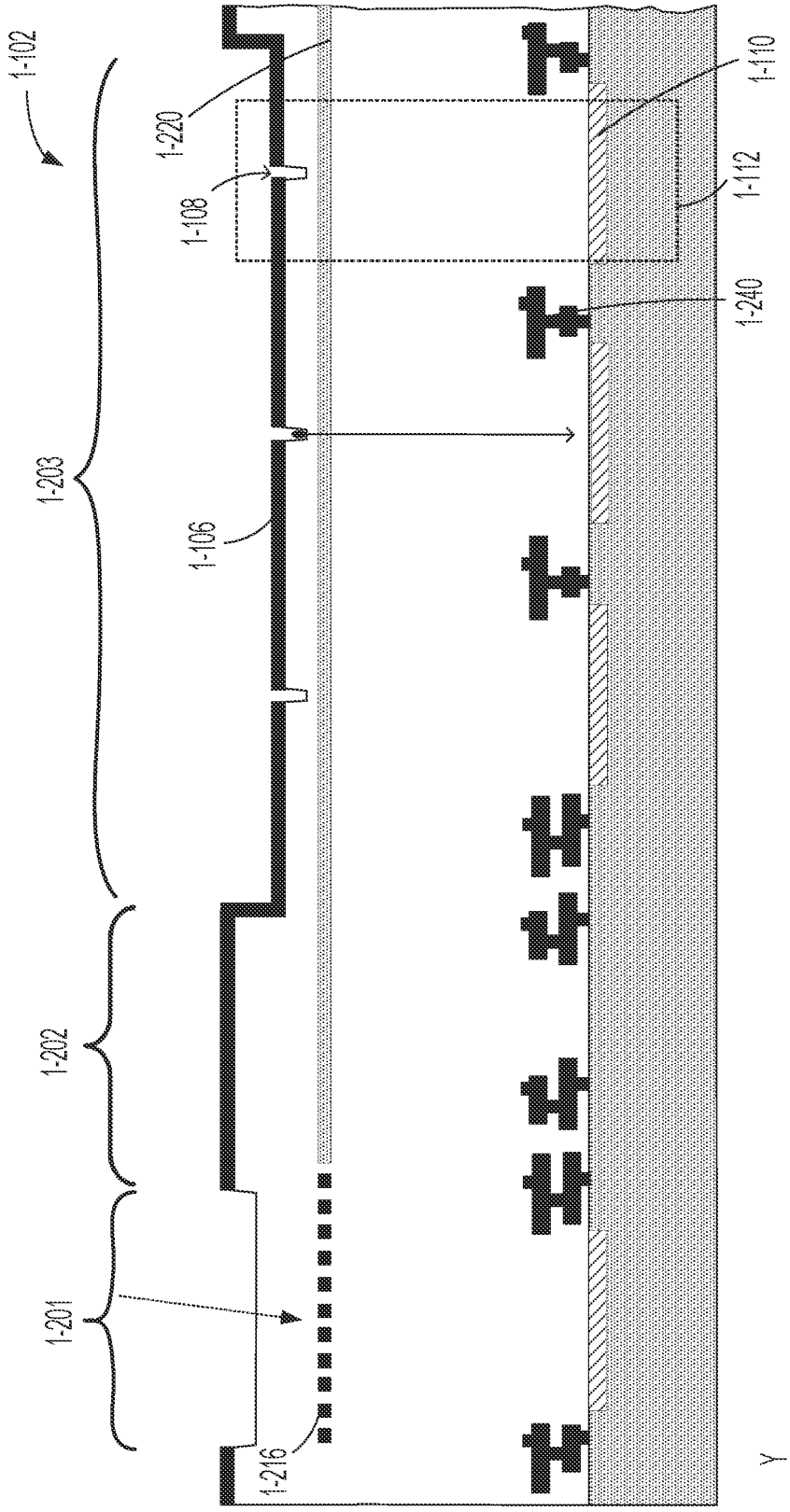


FIG. 1-1

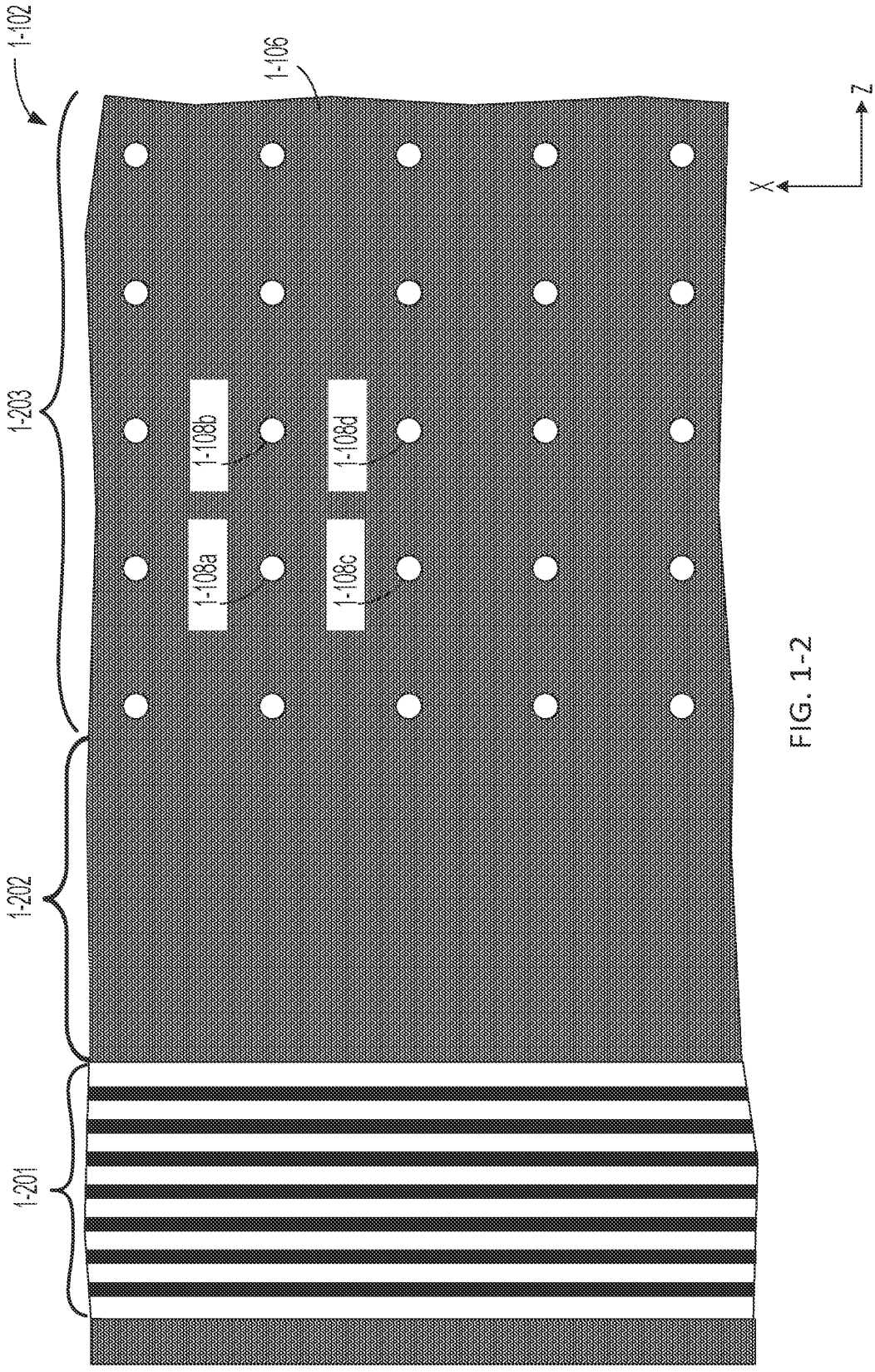


FIG. 1-2

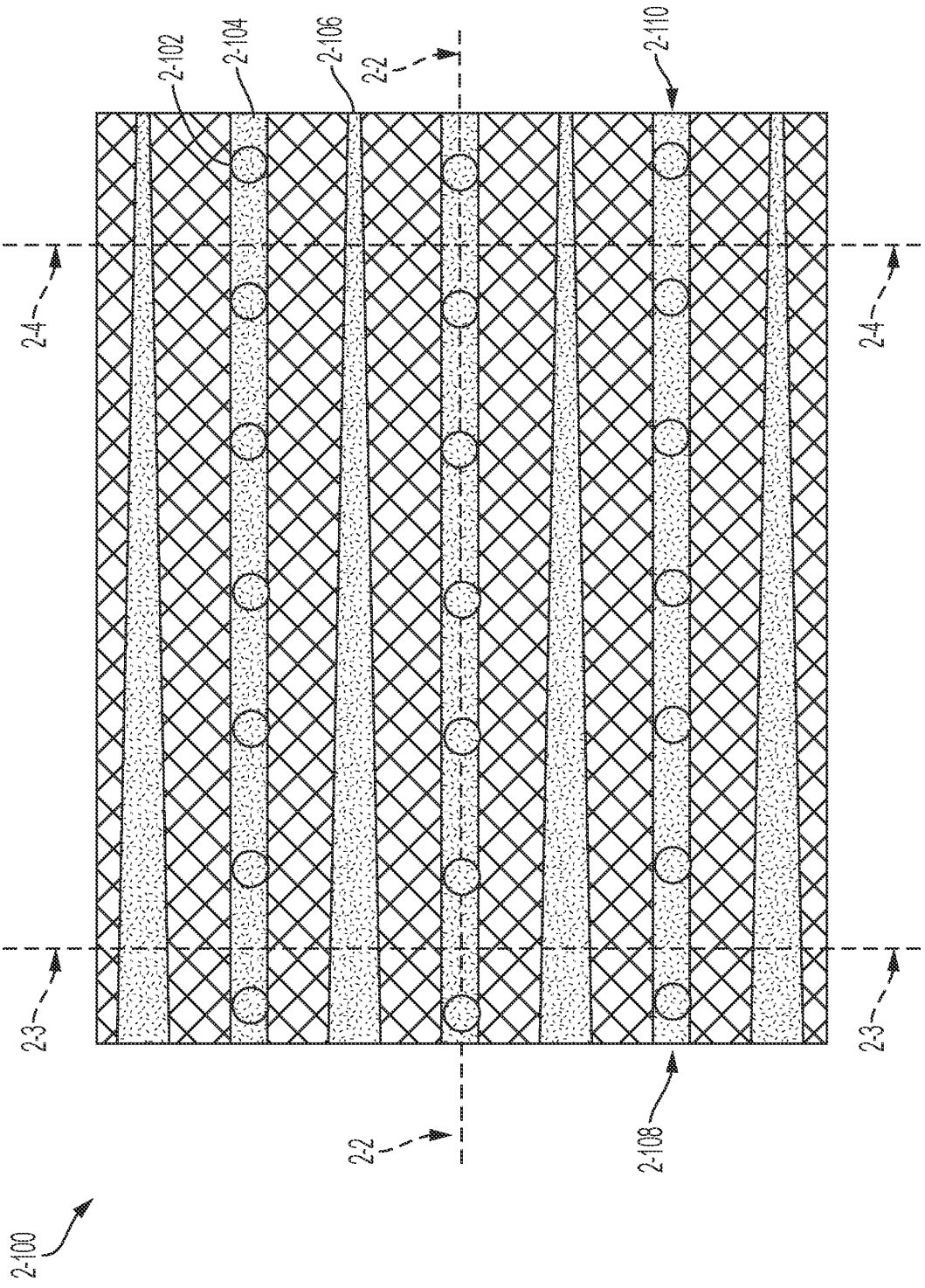


FIG. 2-1

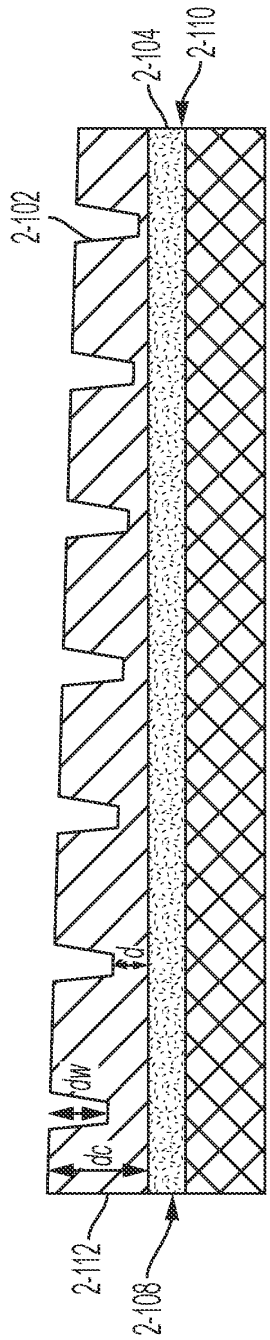


FIG. 2-2

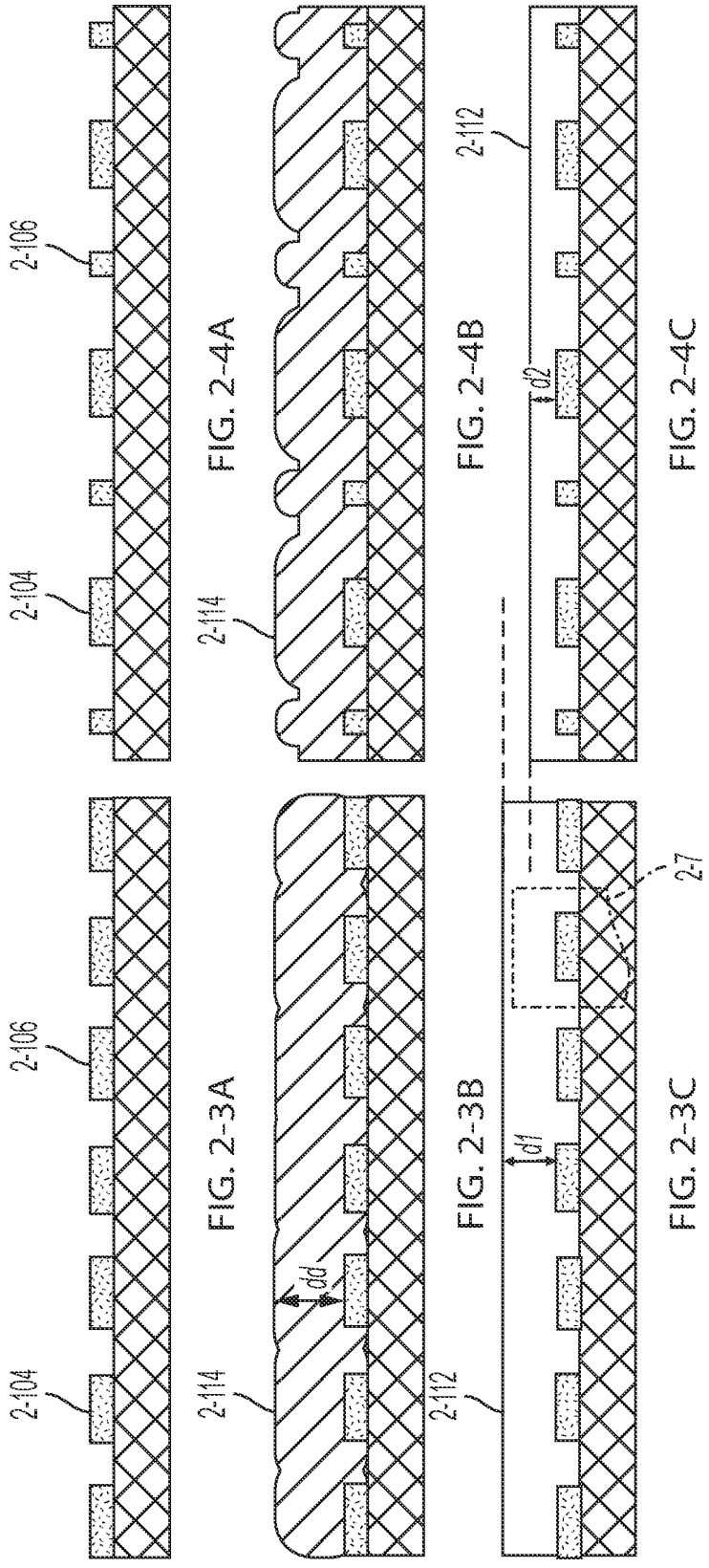


FIG. 2-4A FIG. 2-4B FIG. 2-4C

FIG. 2-3A FIG. 2-3B FIG. 2-3C

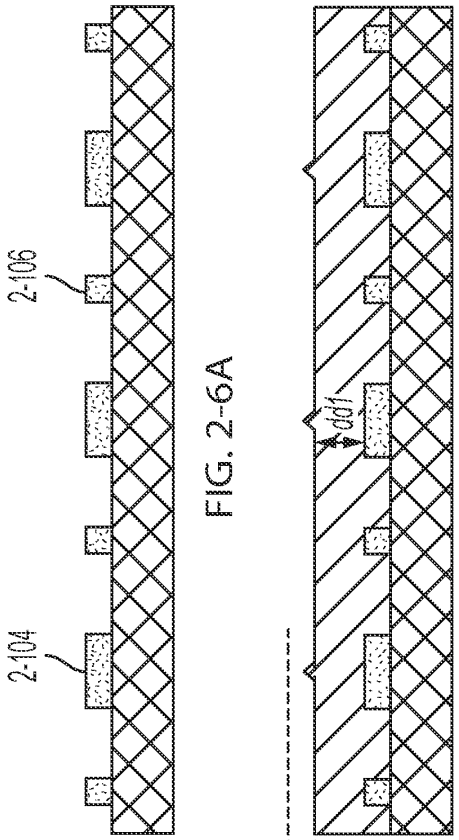


FIG. 2-6A

FIG. 2-6B

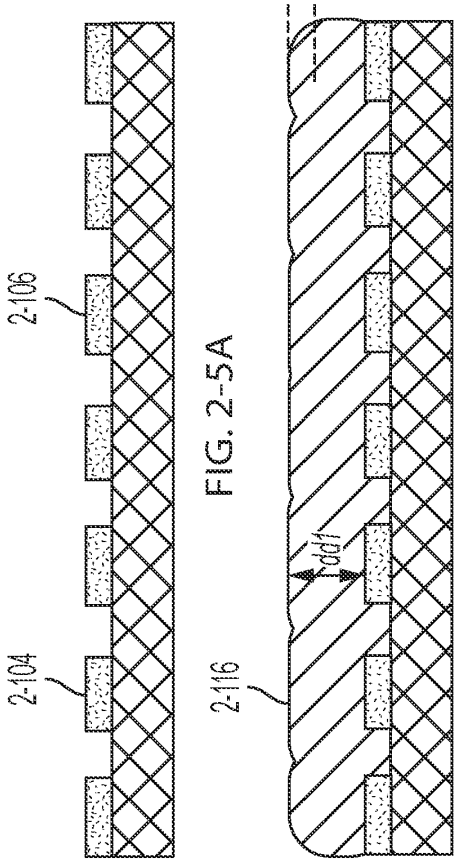


FIG. 2-5A

FIG. 2-5B

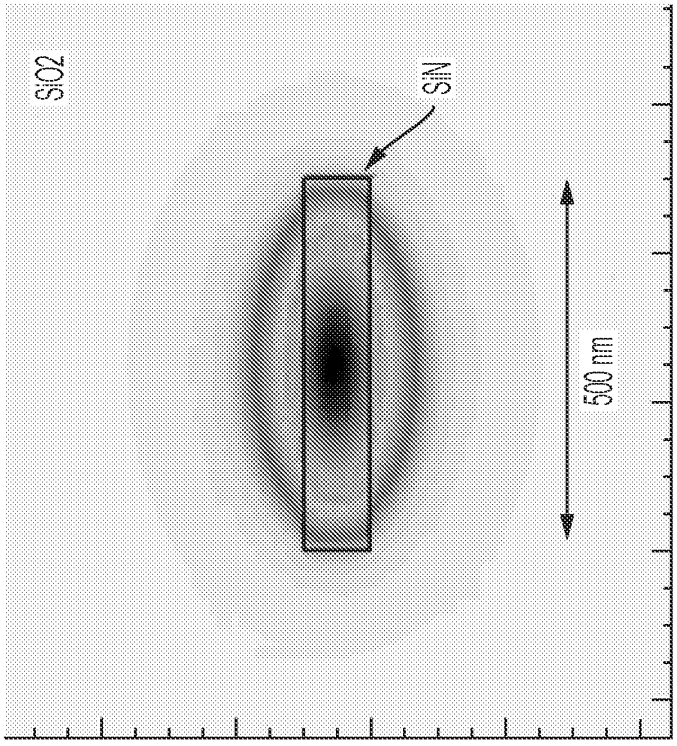


FIG. 2-7B

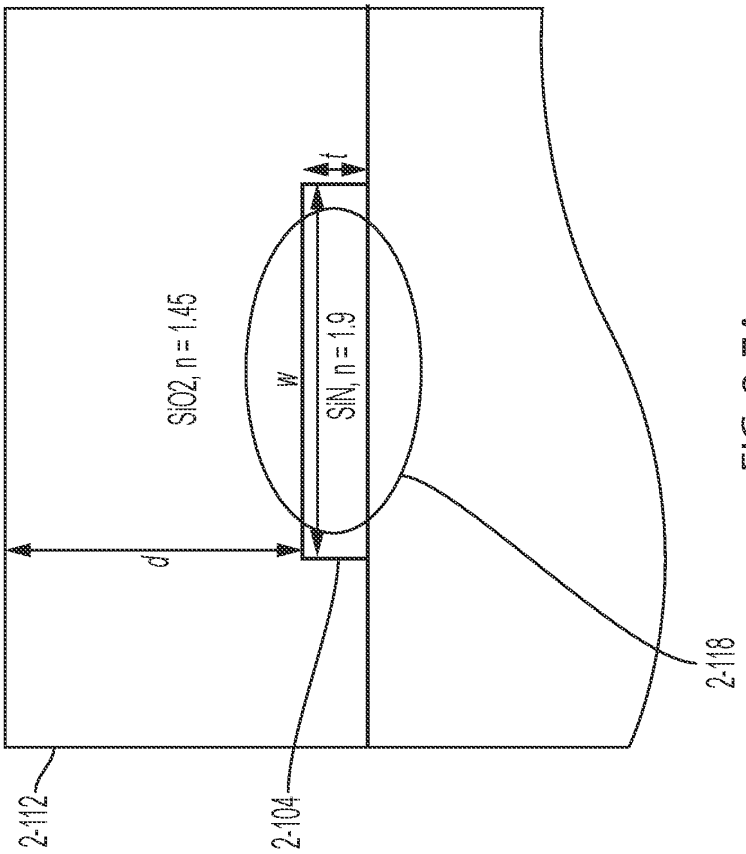


FIG. 2-7A

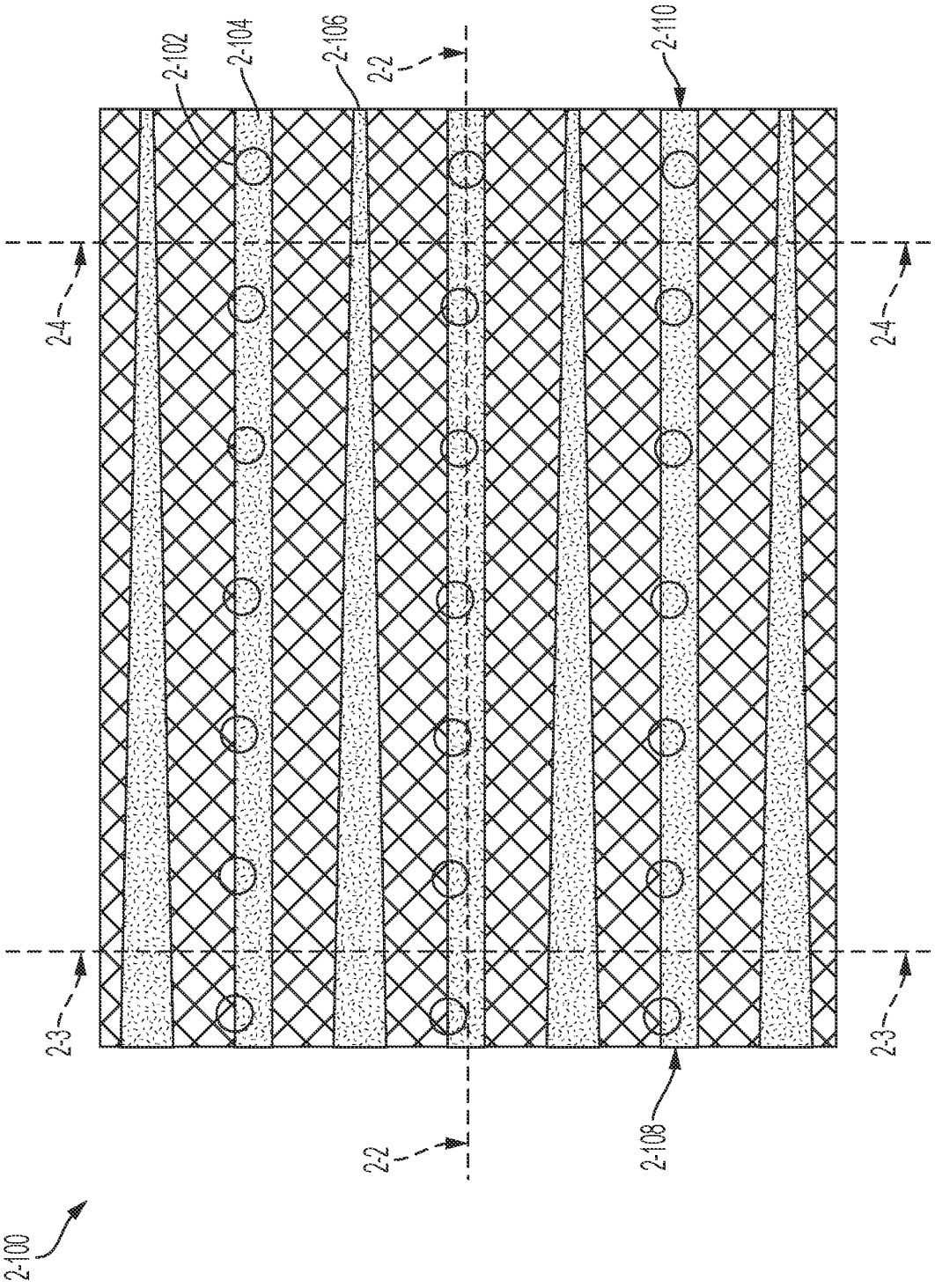


FIG. 2-8

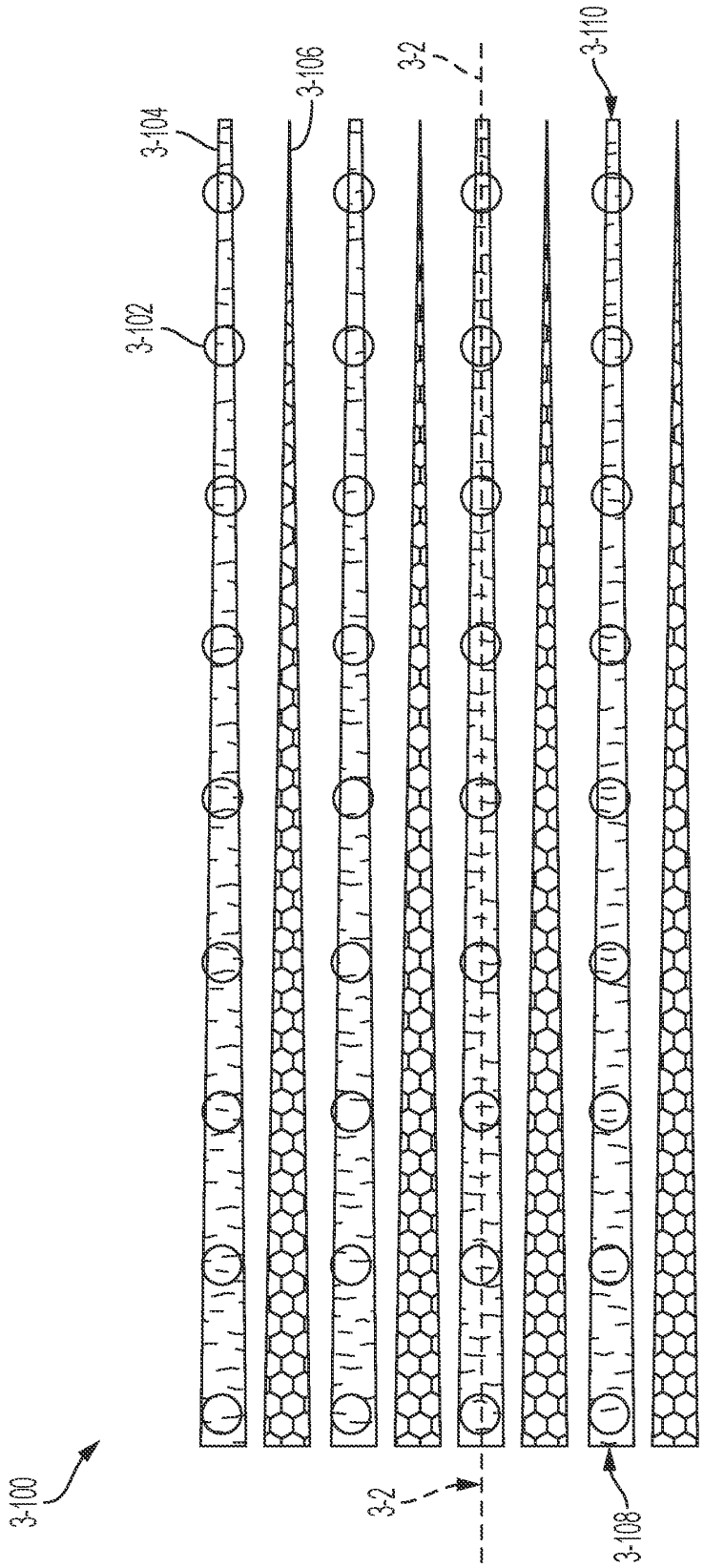


FIG. 3-1

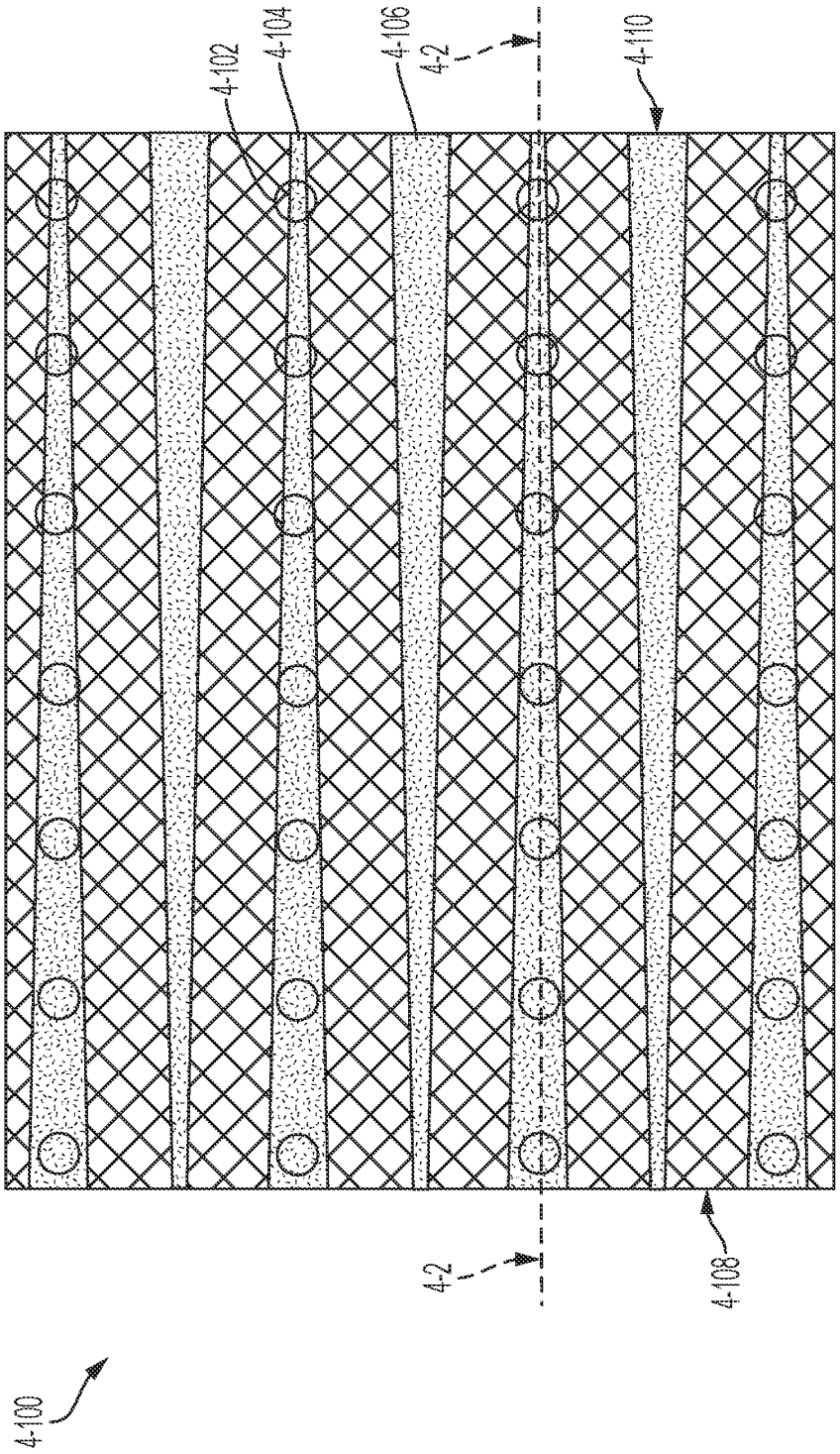


FIG. 4-1

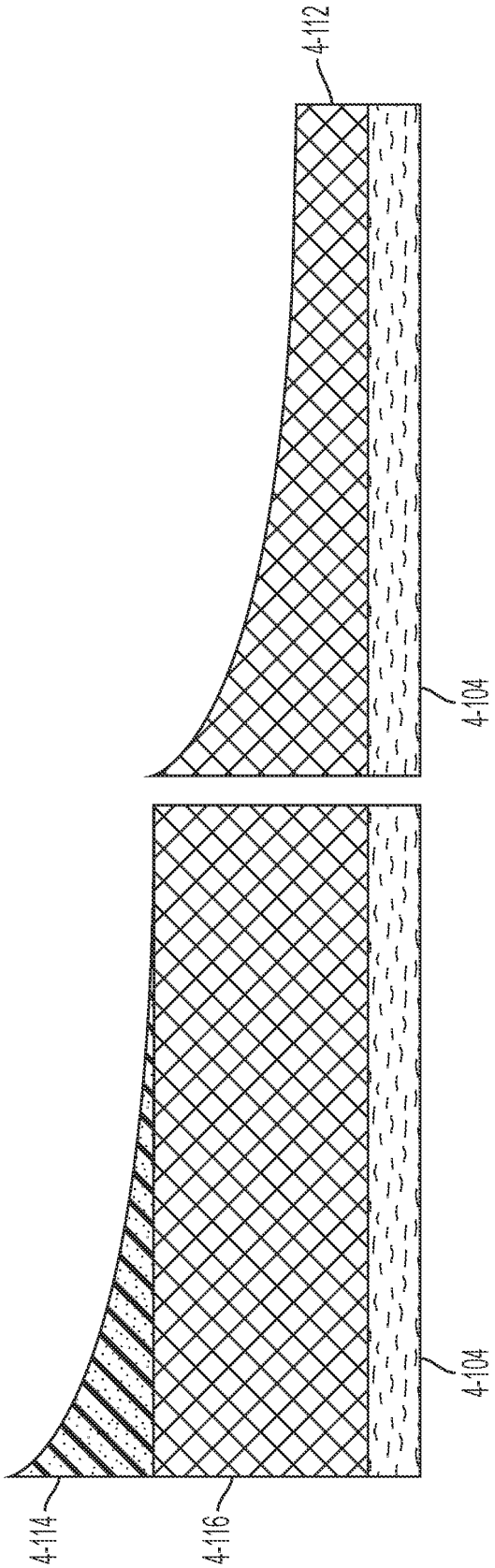


FIG. 4-2B

FIG. 4-2A

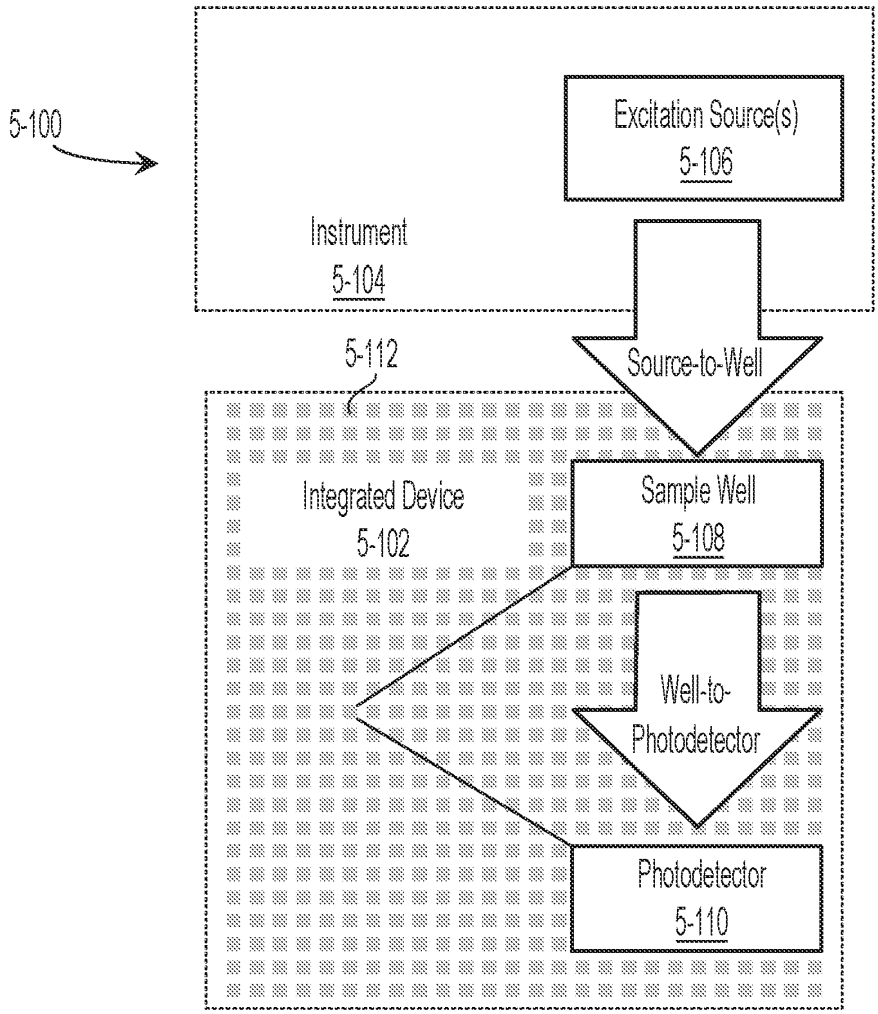

5-100
Excitation Source(s)
5-106
Instrument
5-104
5-112
Source-to-Well
Integrated Device
5-102
Sample Well
5-108
Well-to-
Photodetector
Photodetector
5-110

FIG. 5-1A

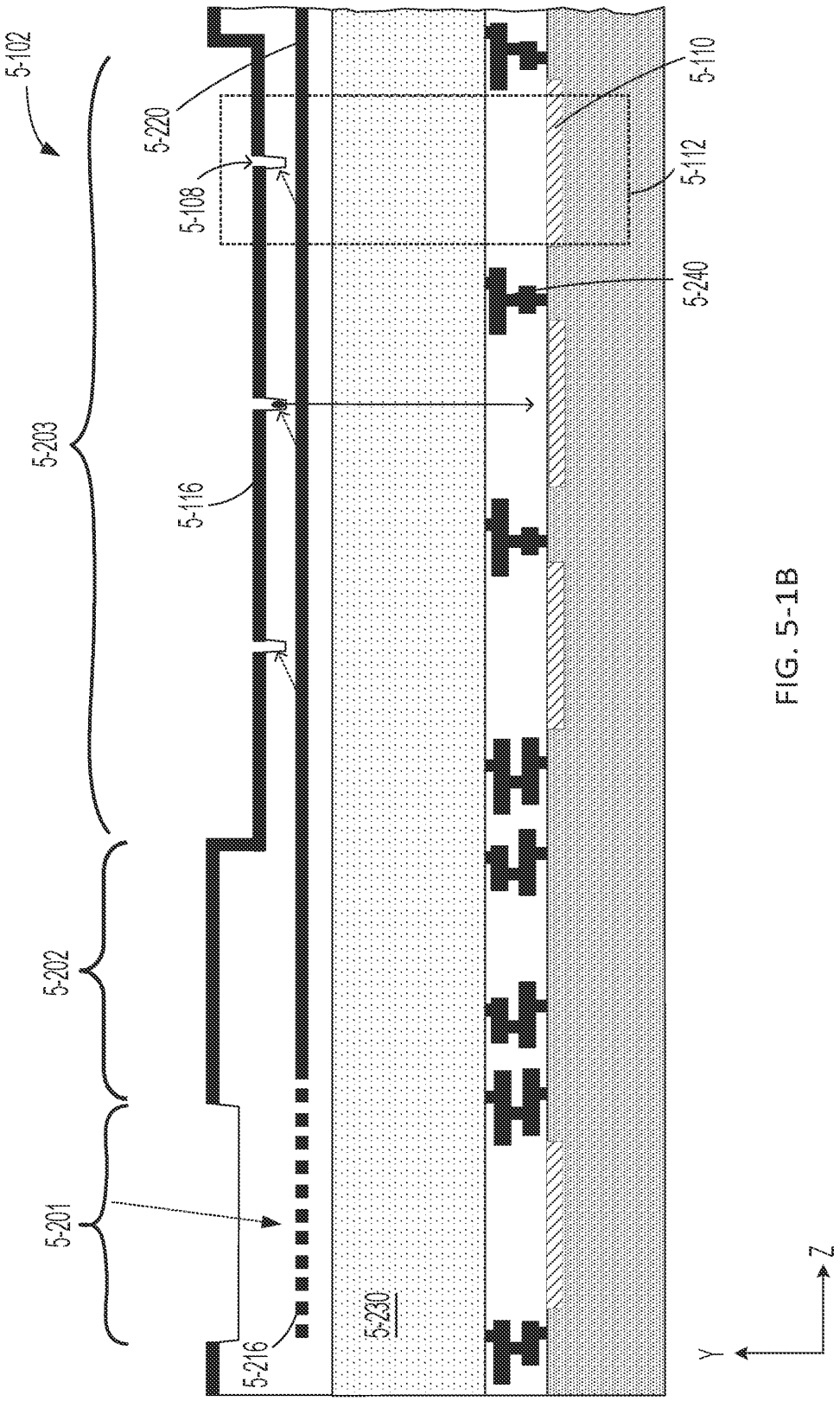

5-102
5-220
5-110
5-108
5-112
5-240
5-203
5-116
5-202
5-201
5-216
5-230
Y
Z

FIG. 5-1B

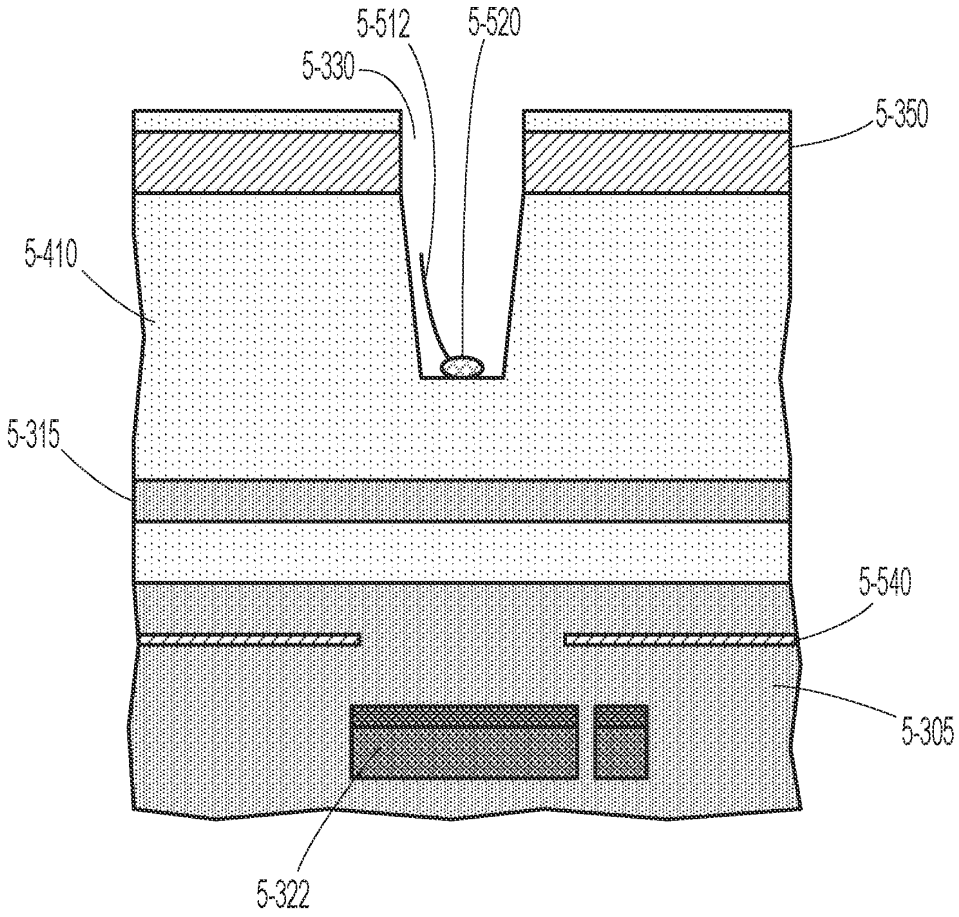

5-512
5-520
5-330
5-350
5-410
5-315
5-540
5-305
5-322

FIG. 5-2

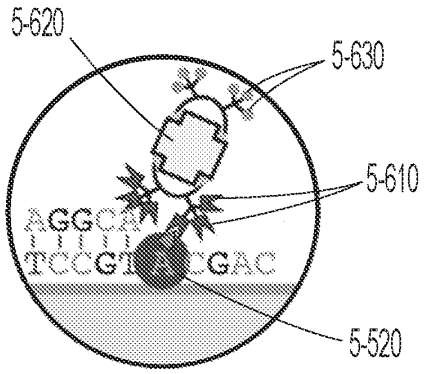

5-620
5-630
5-610
5-520

FIG. 5-3

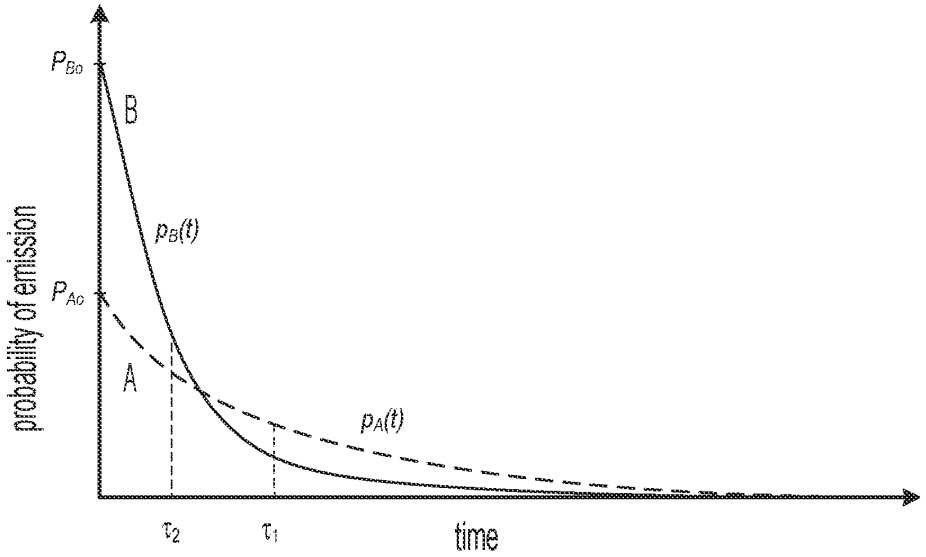

P_{Bo}
B
$p_B(t)$
P_{Ao}
A
$p_A(t)$
probability of emission
τ_2
τ_1
time

FIG. 5-4

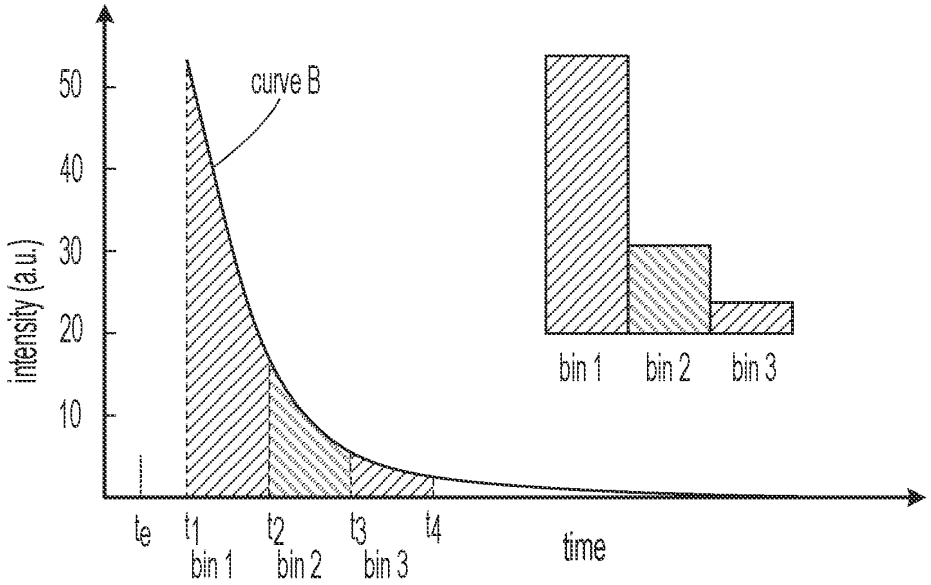

50
40
30
20
10
intensity (a.u.)
curve B
bin 1
bin 2
bin 3
t_e
t_1
t_2
t_3
t_4
bin 1
bin 2
bin 3
time

FIG. 5-5

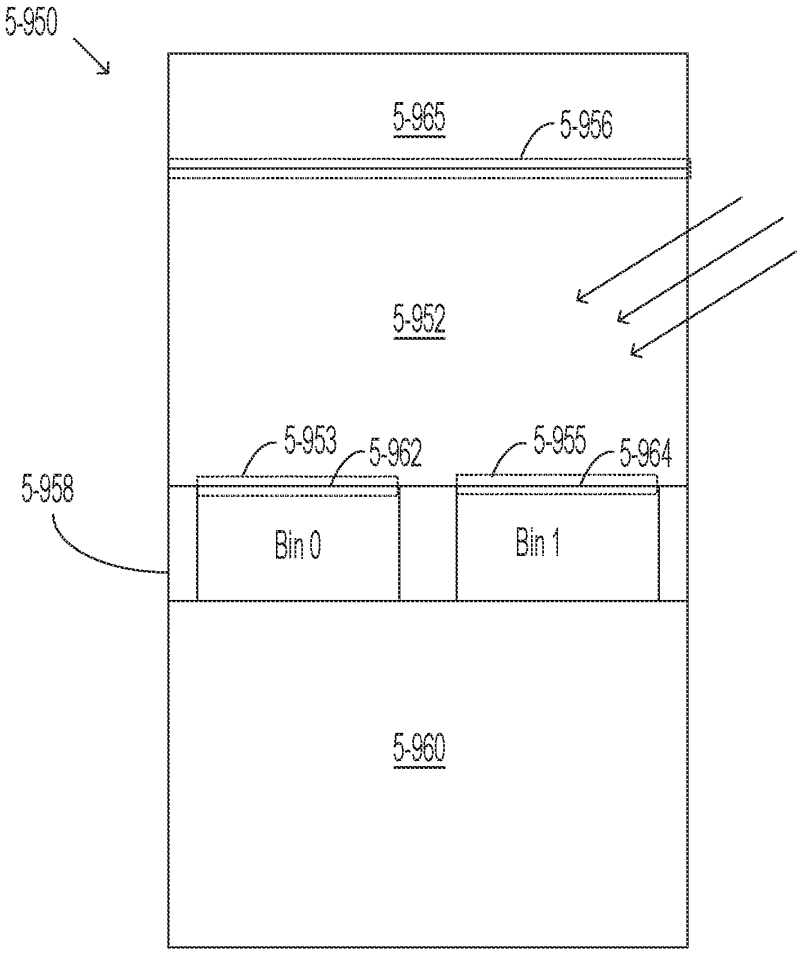


FIG. 5-6

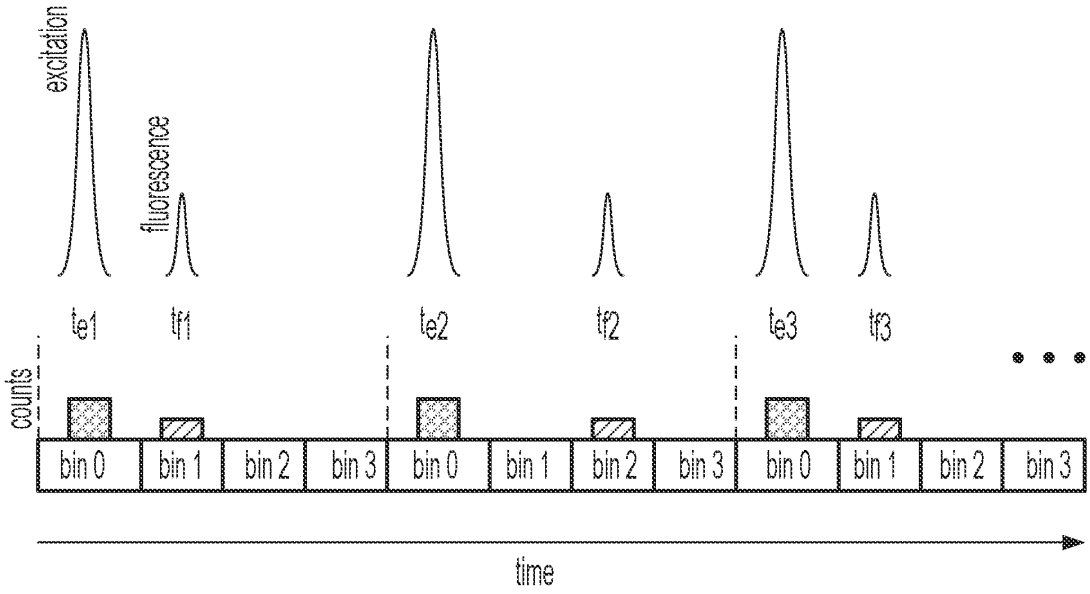


FIG. 5-7A

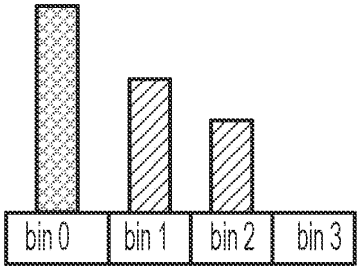


FIG. 5-7B

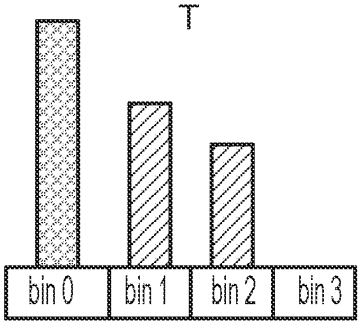


FIG. 5-8A

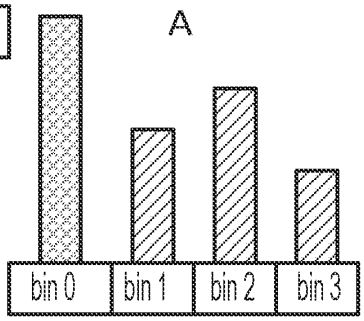


FIG. 5-8B

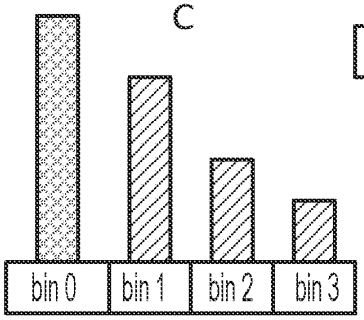


FIG. 5-8C

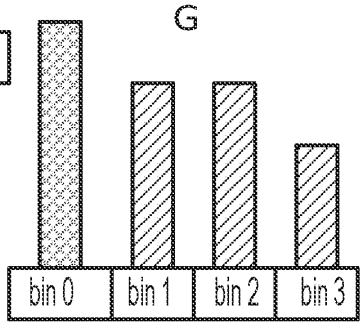


FIG. 5-8D