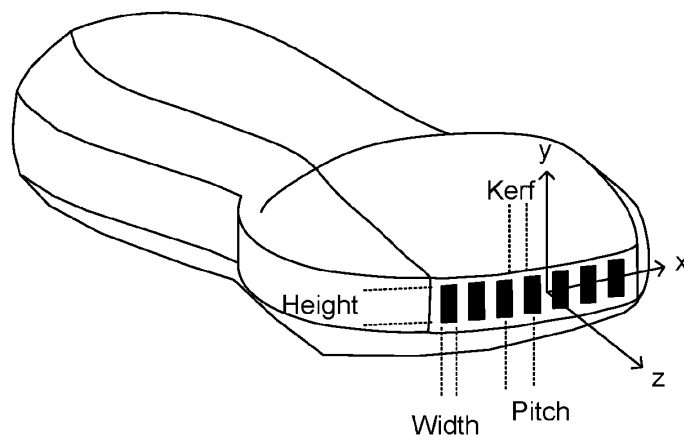


104**FIG. 1A**

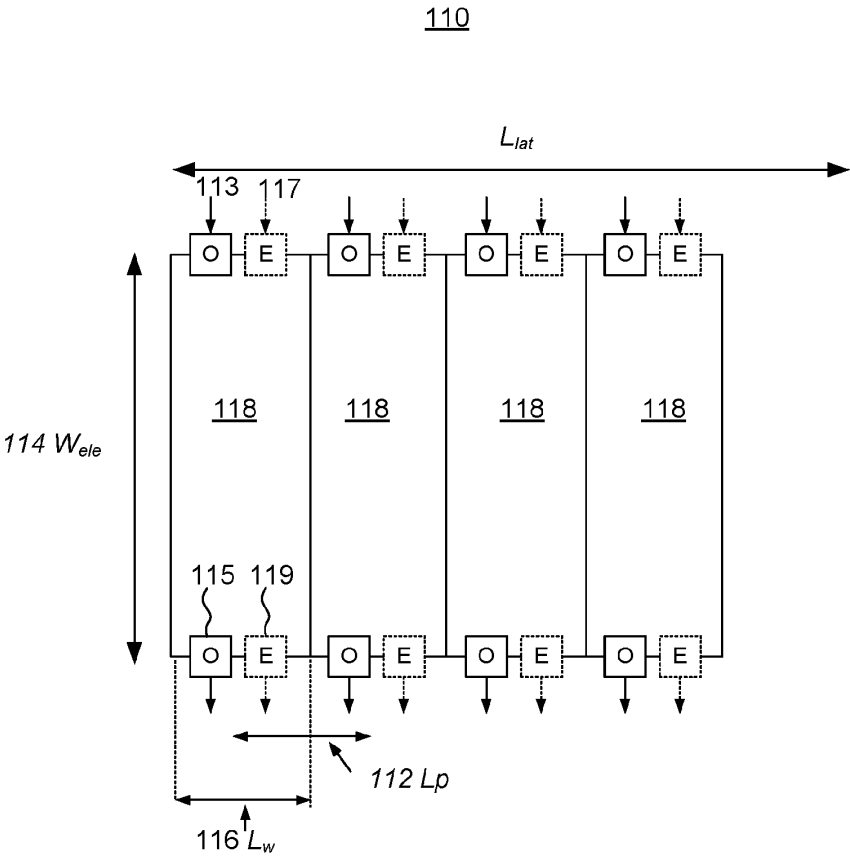


FIG. 1B

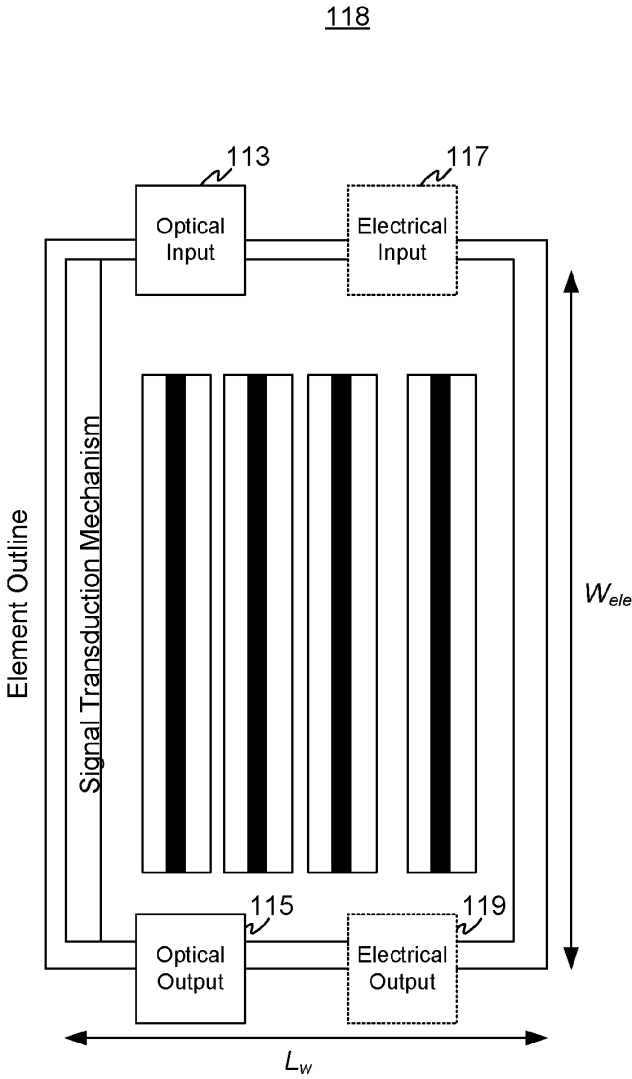


FIG. 1C

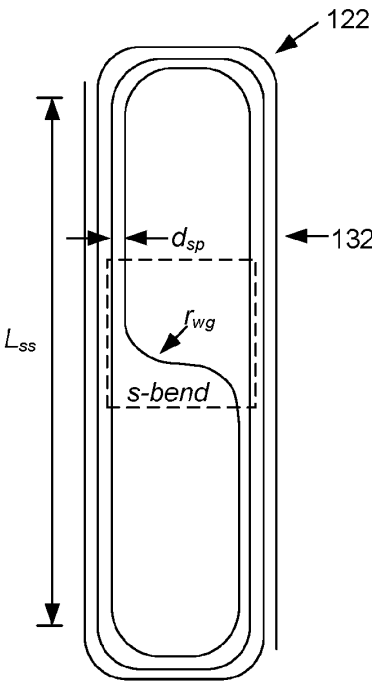


FIG. 1D

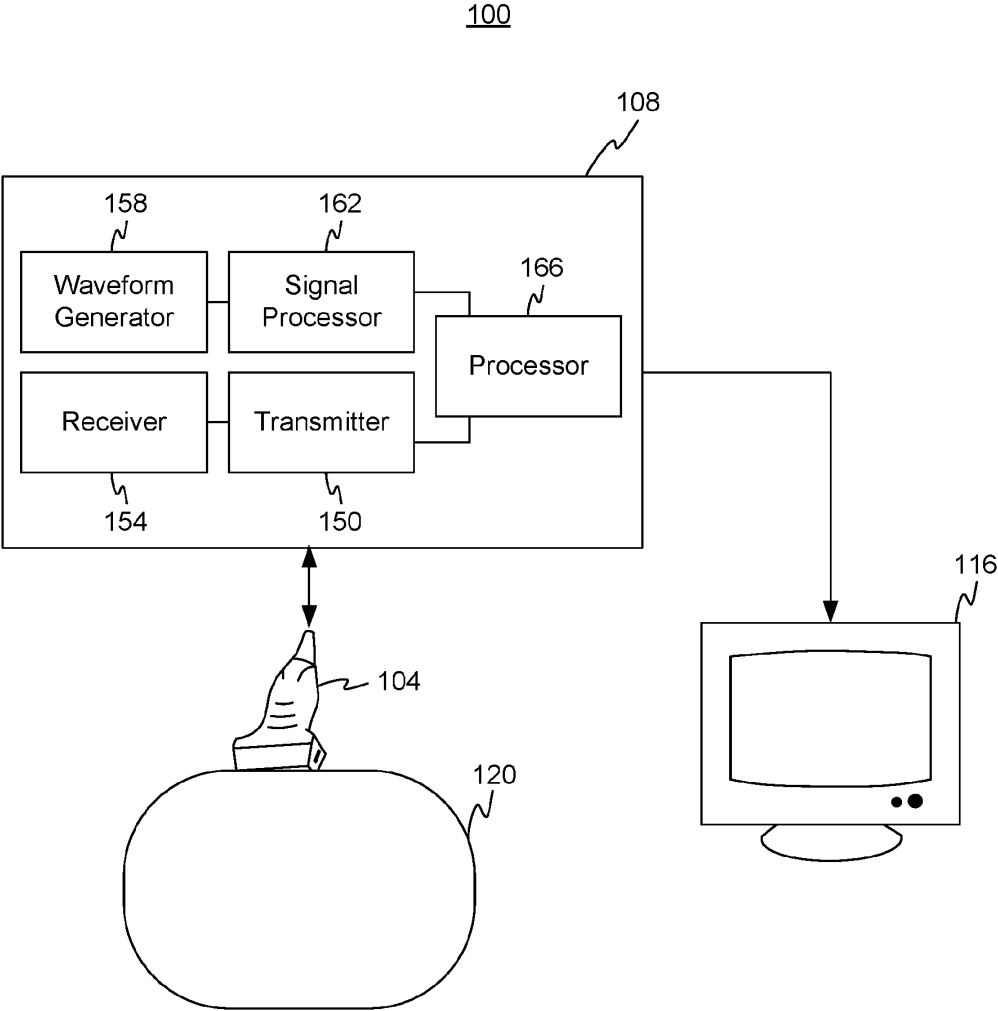


FIG. 1E

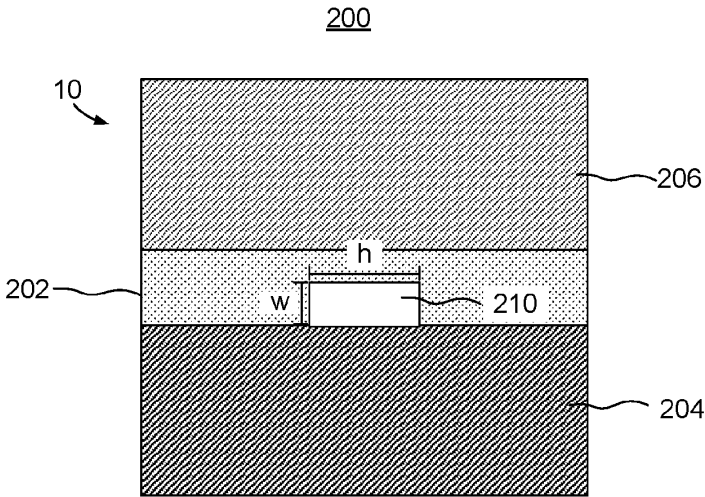


FIG. 2A

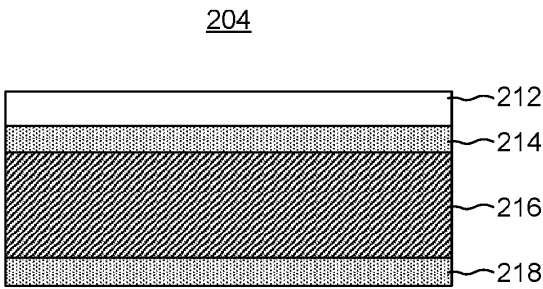
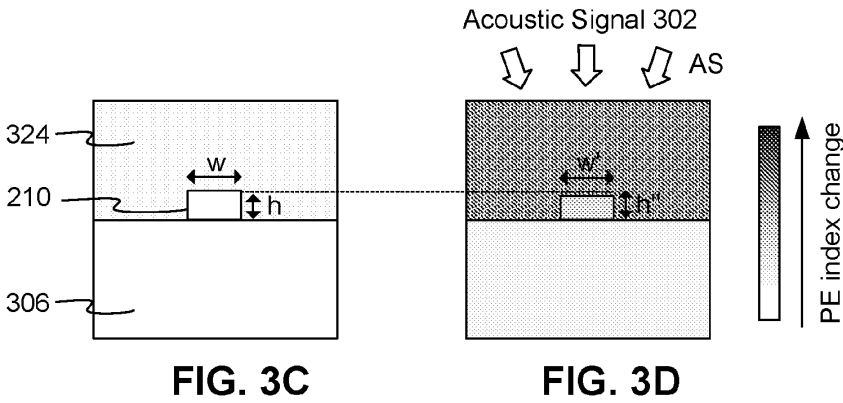
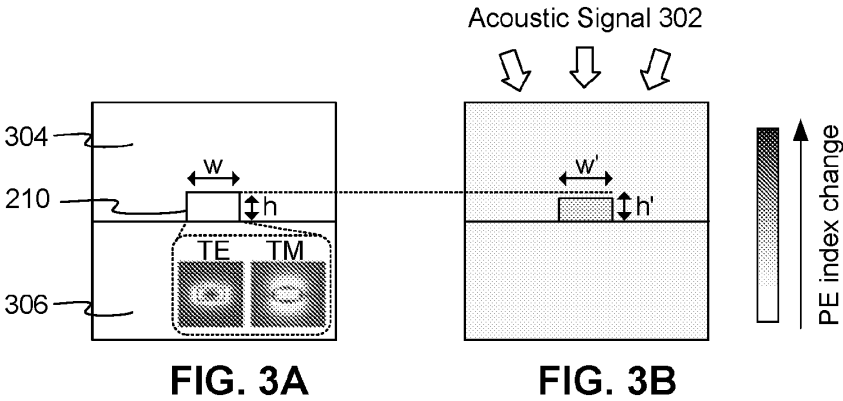


FIG. 2B



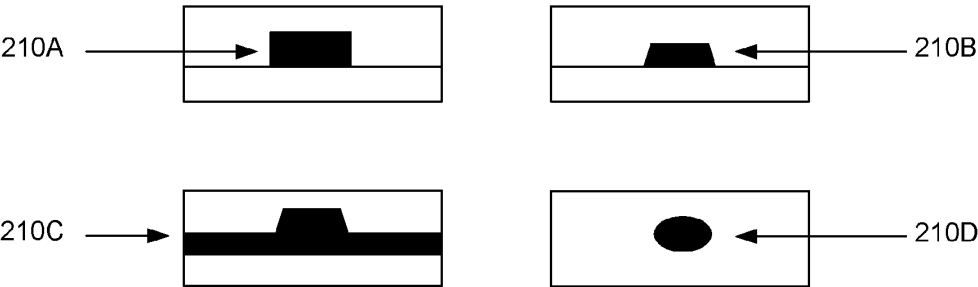


FIG. 3E

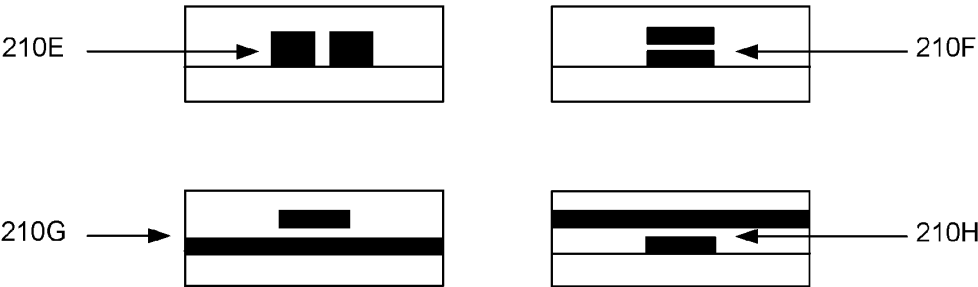


FIG. 3F

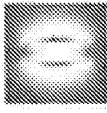
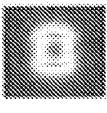
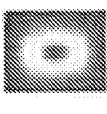
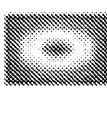
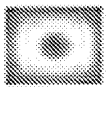
	Mode Profile	PE sensitivity (ppm/MPa)	Deformation sensitivity (ppm/MPa)	Overall sensitivity (ppm/MPa)
220 nm x 500 nm - TM		-0.002	-2.83	-2.83
220 nm x 700 nm - TM		-0.14	-2.91	-3.05
340 nm x 500 nm - TM		-2.25	-1.88	-4.13
220 nm x 500 nm - TE		0.22	-1.25	-1.02
220 nm x 700 nm - TE		0.12	-1.26	-0.86
340 nm x 500 nm - TE		0.14	-0.86	-0.71

FIG. 3G

Deformation + Stress

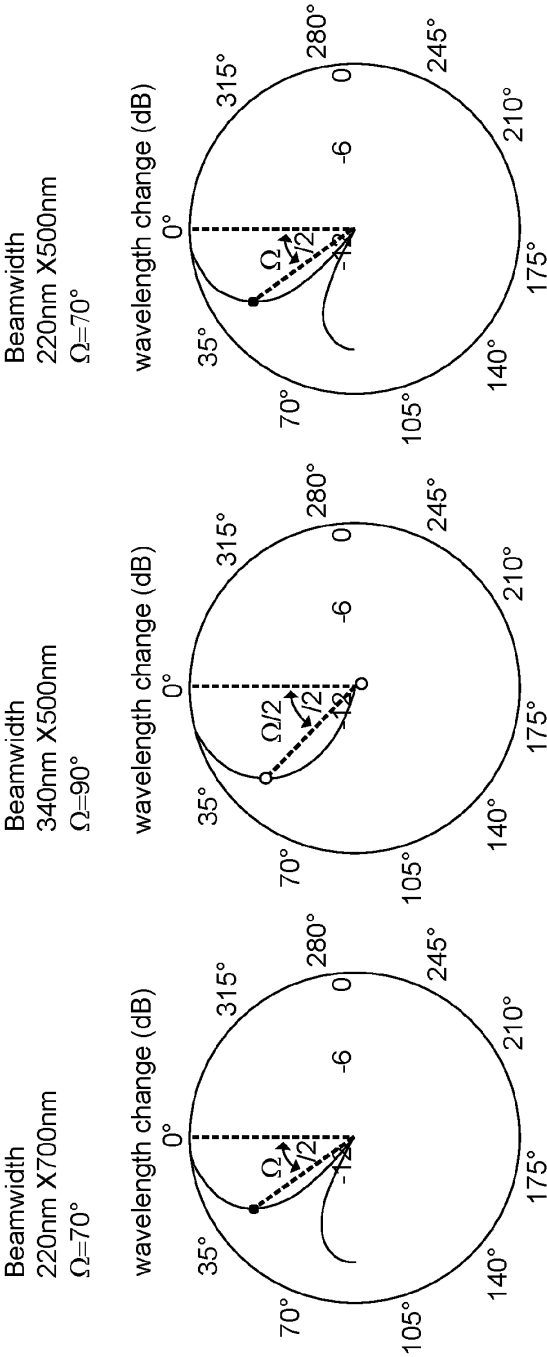


FIG. 4A

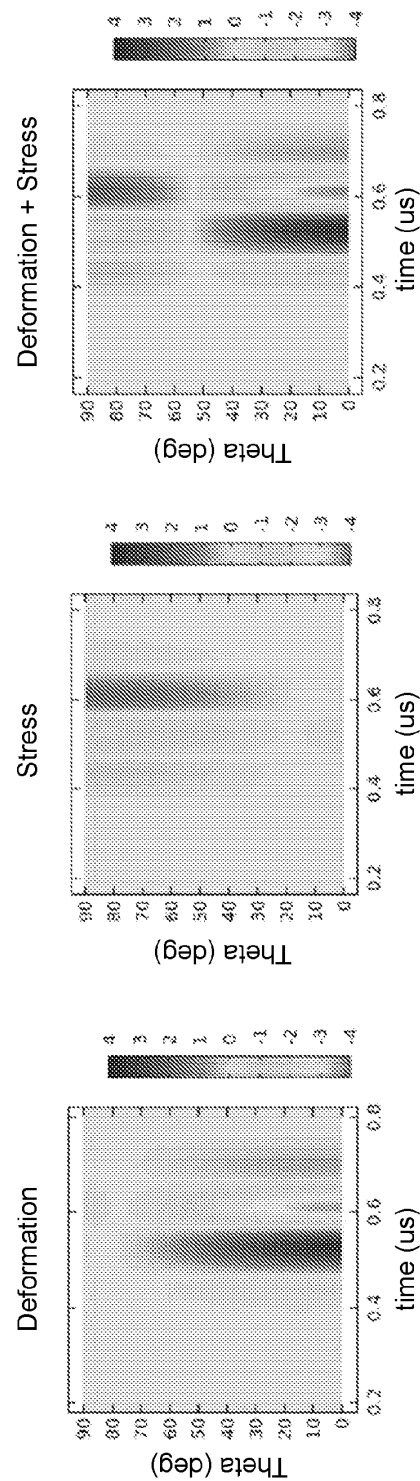


FIG. 4B

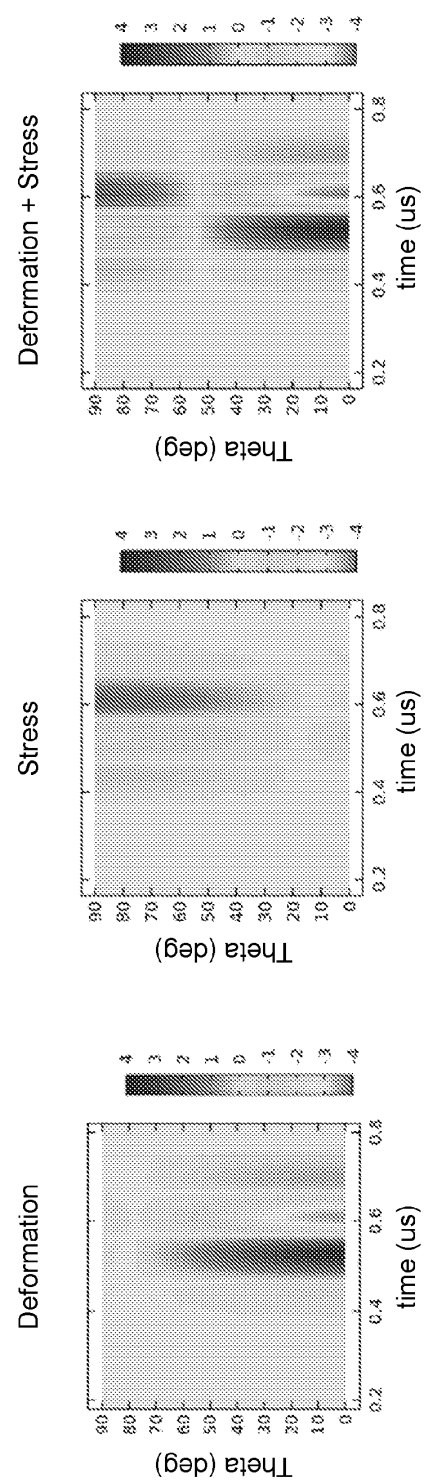


FIG. 4C

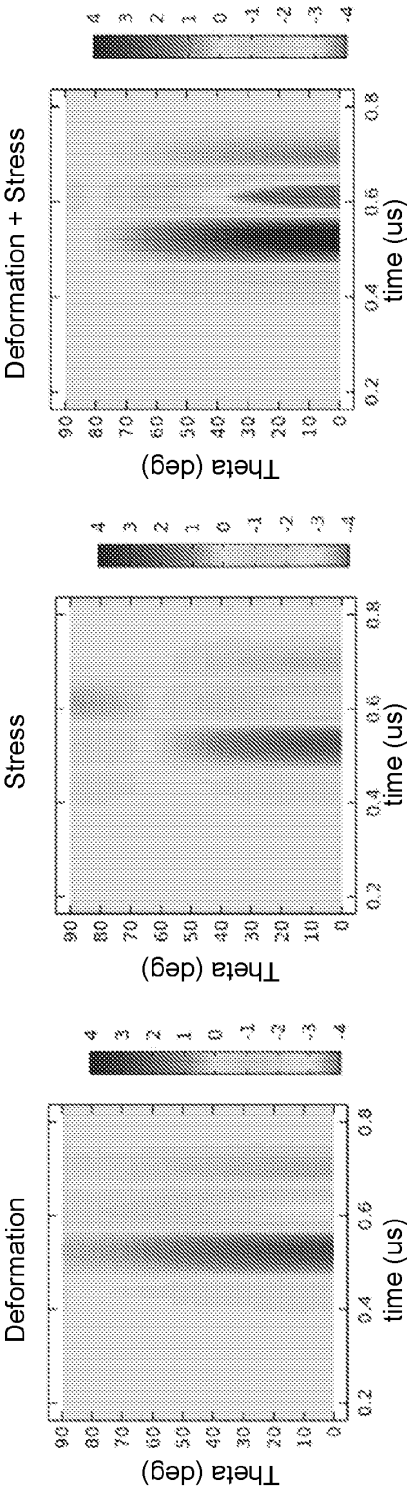


FIG. 4D

500

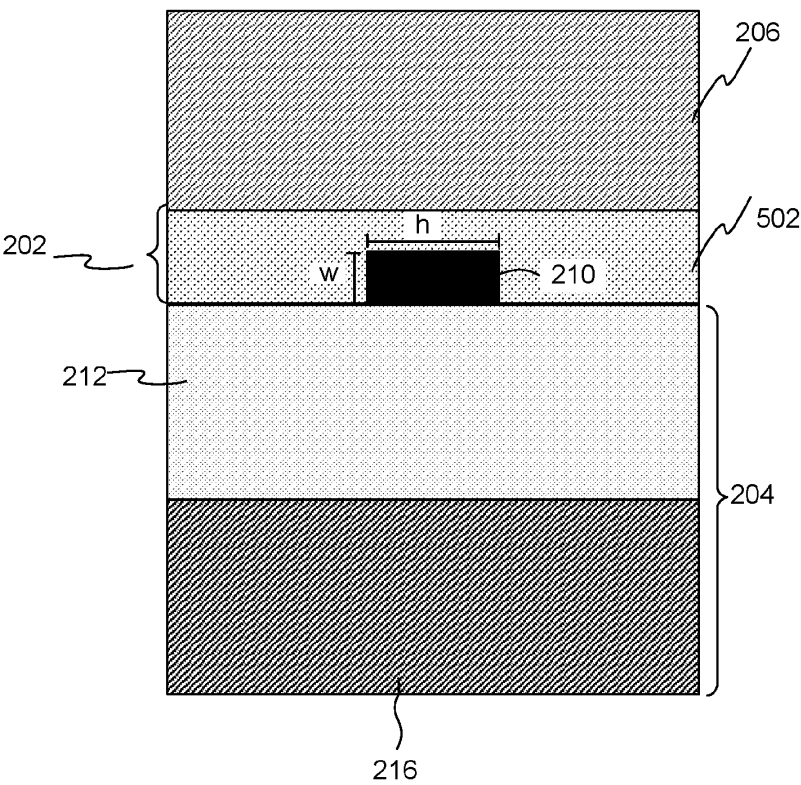
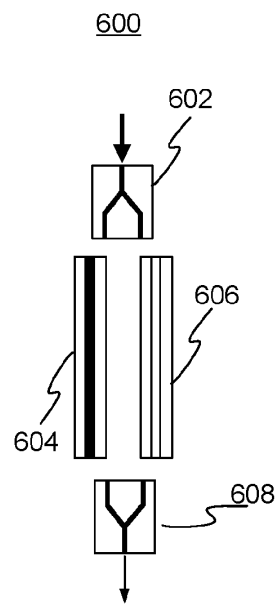


FIG. 5

**FIG. 6**

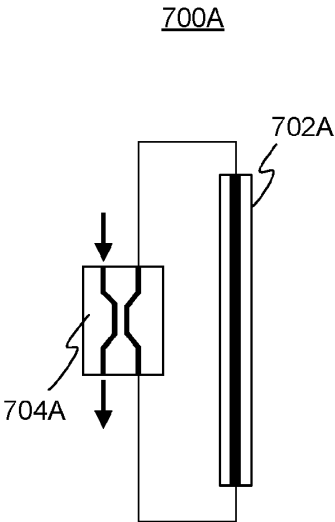


FIG. 7A

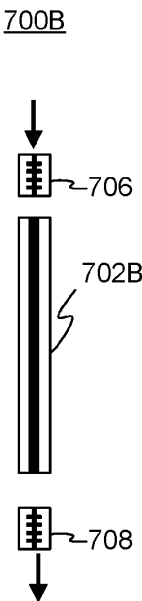


FIG. 7B

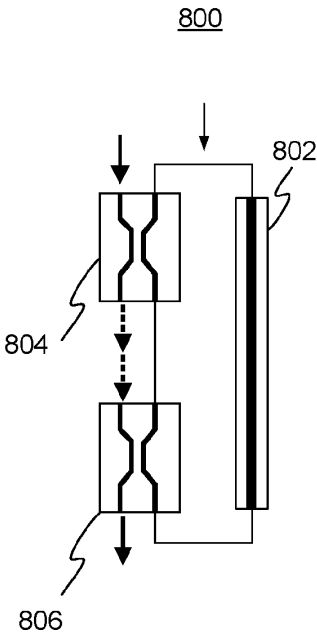


FIG. 8A

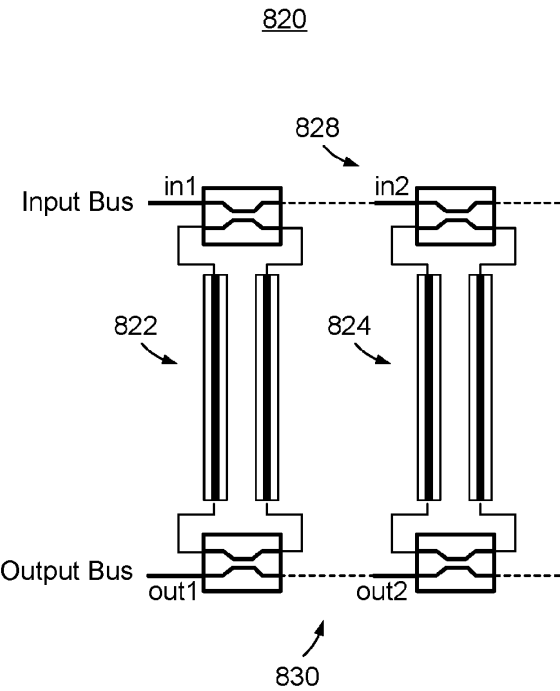
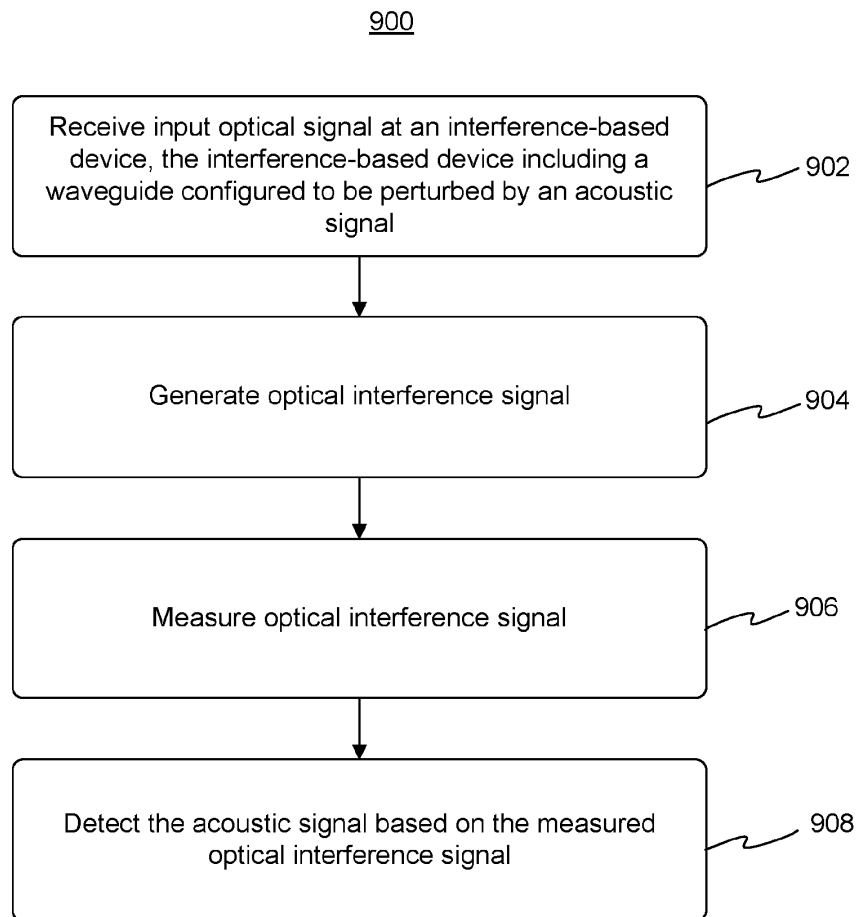


FIG. 8B

**FIG. 9**

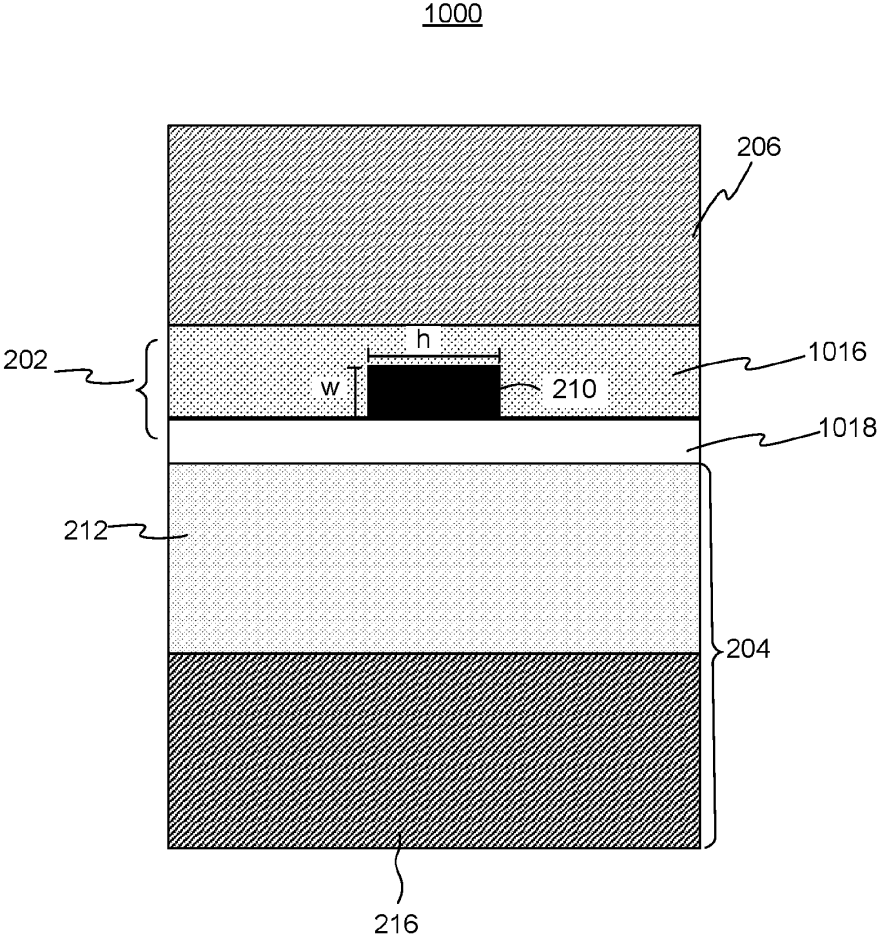
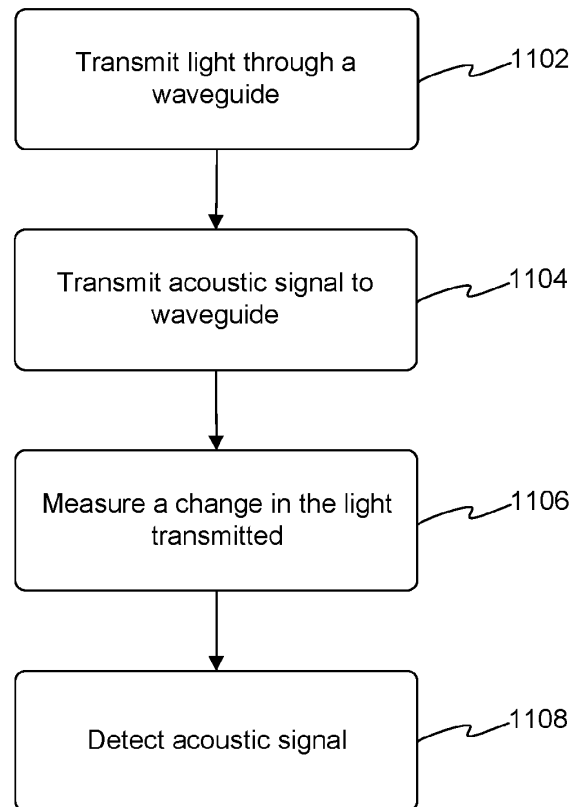


FIG. 10

1100**FIG. 11**

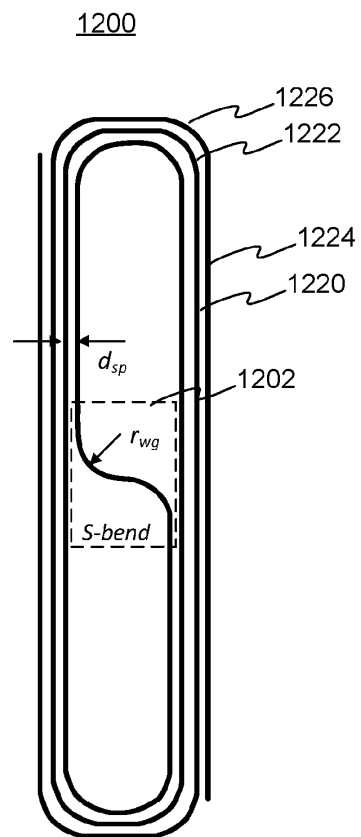


FIG. 12

1300

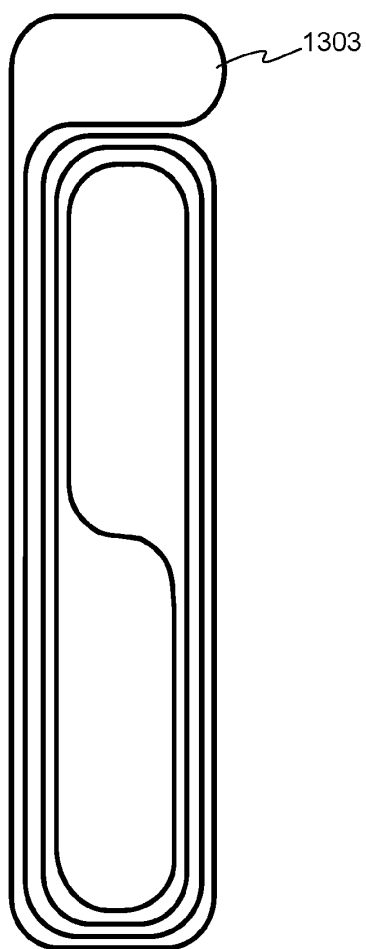


FIG. 13

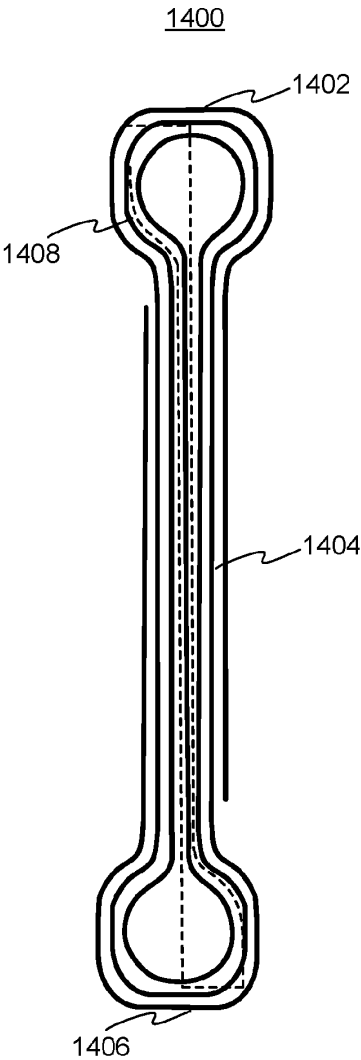


FIG. 14

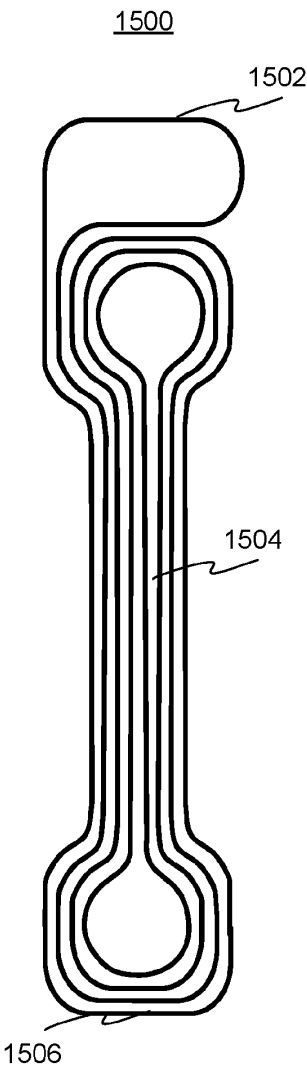


FIG. 15

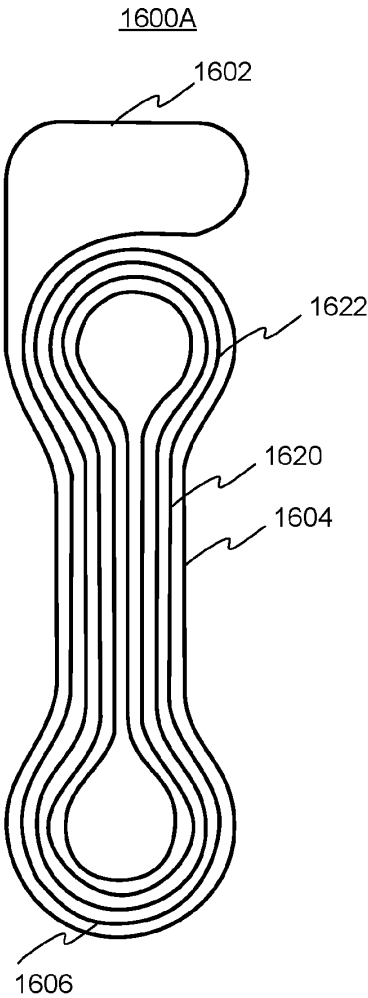


FIG. 16A

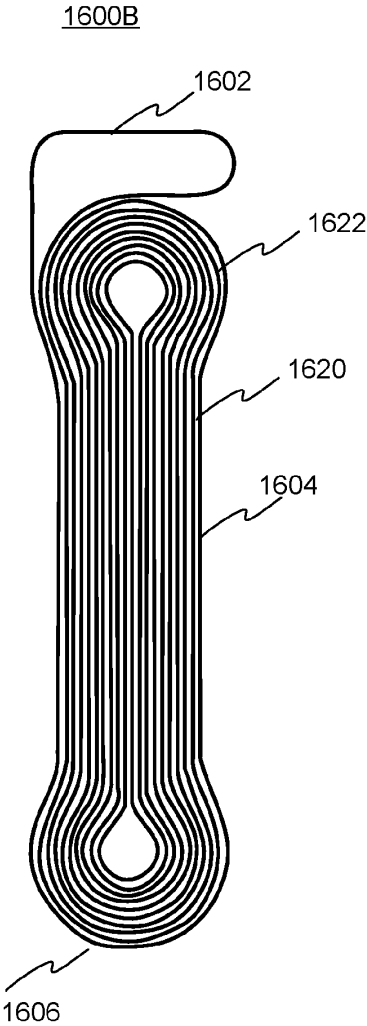


FIG. 16B

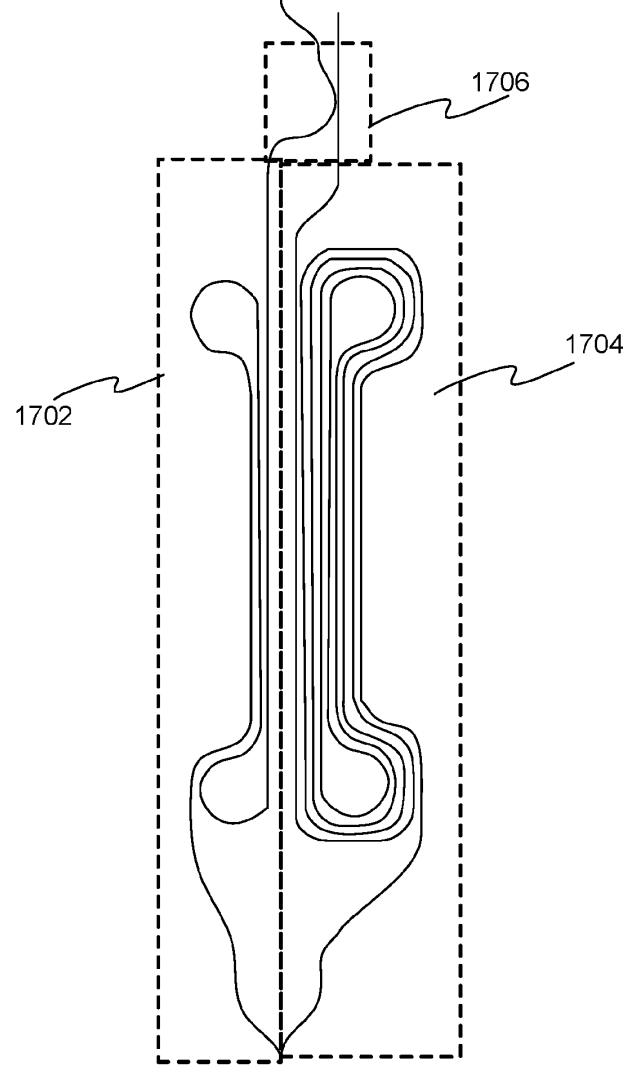


FIG. 17

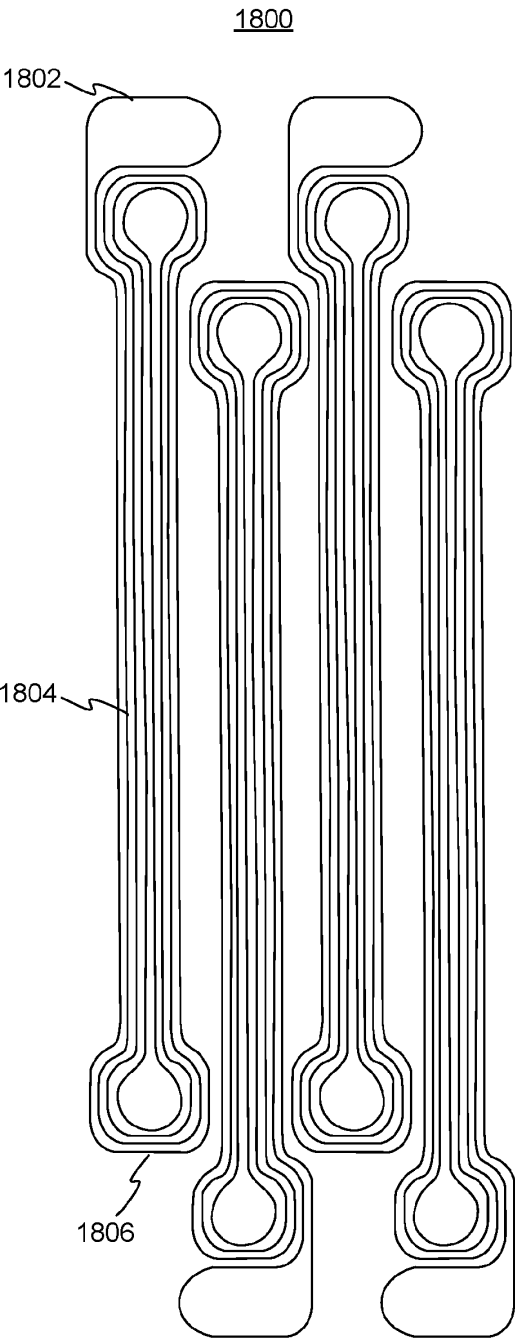


FIG. 18

1900

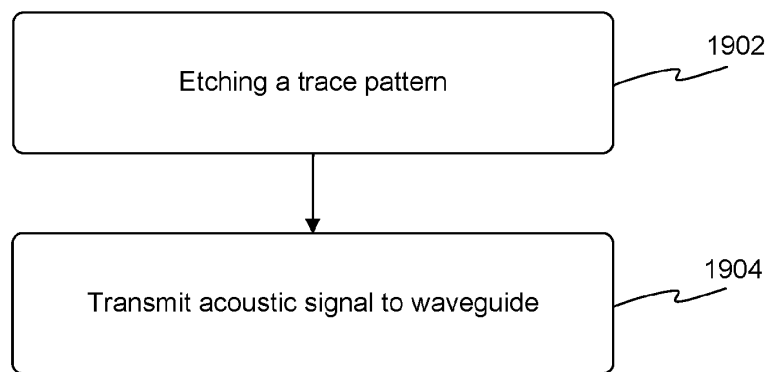


FIG. 19

2000

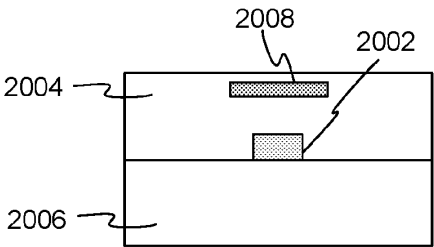


FIG. 20

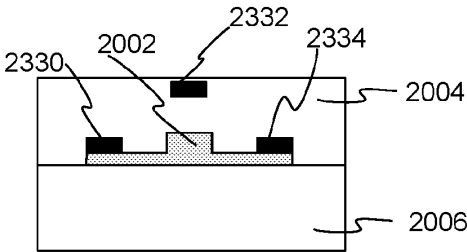


FIG. 23

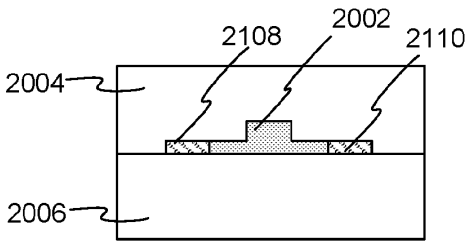


FIG. 21

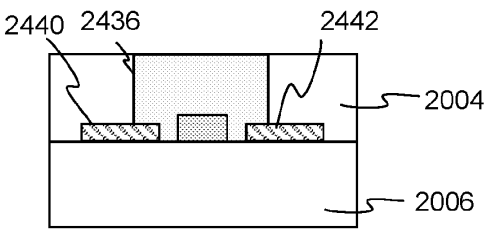


FIG. 24

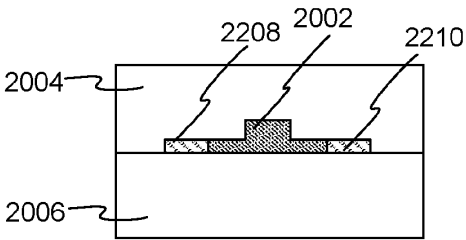
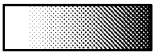


FIG. 22



Dielectric, Intrinsic semiconductors,
heaters, conductors
(darker -> more conductive)



Doped semiconductors

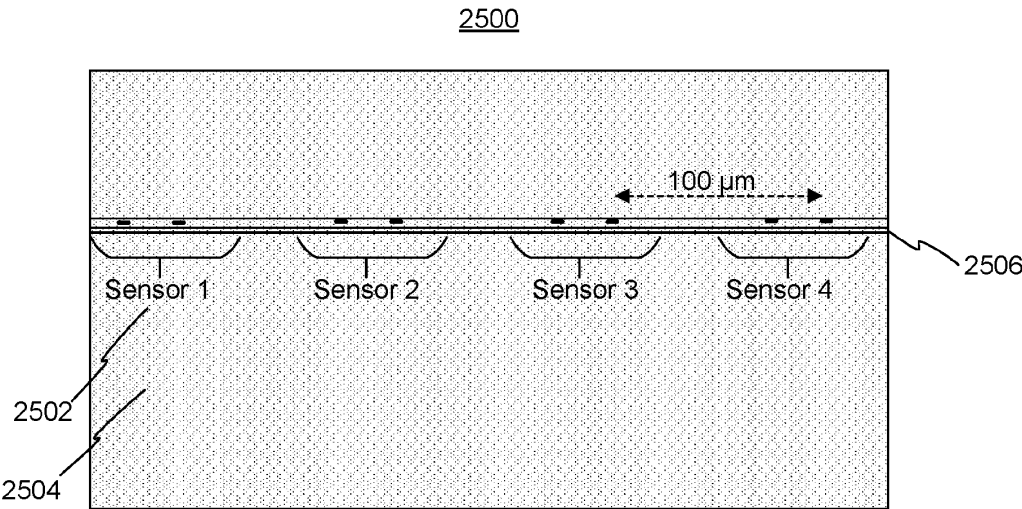


FIG. 25

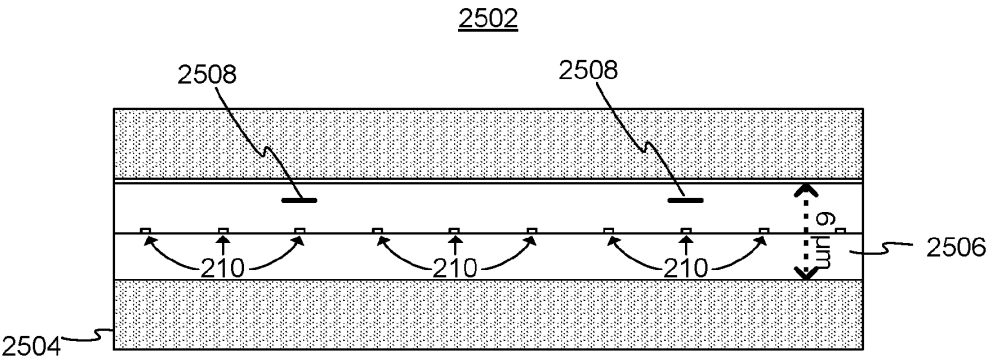


FIG. 26

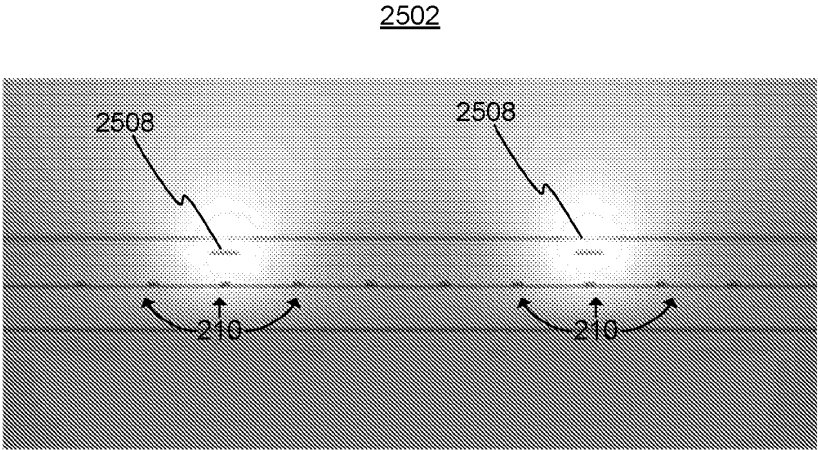


FIG. 27

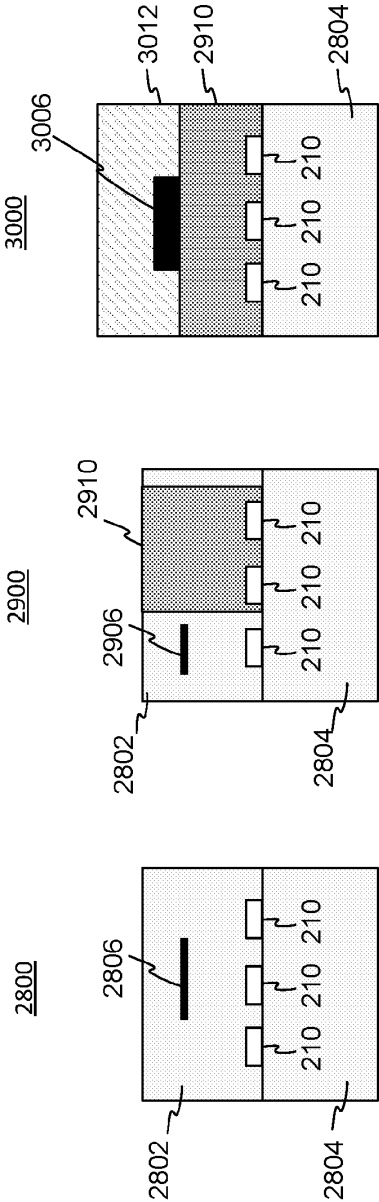


FIG. 28

FIG. 29

FIG. 30

3100

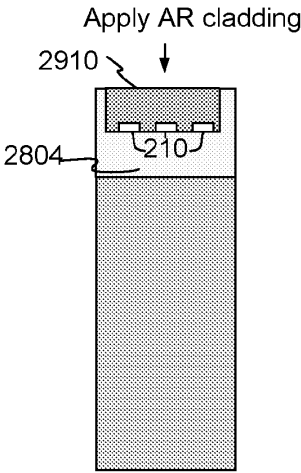


FIG. 31

3200

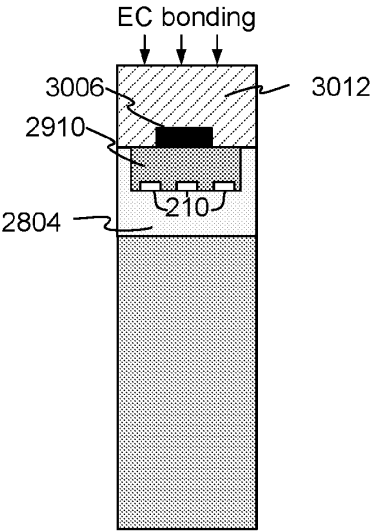


FIG. 32

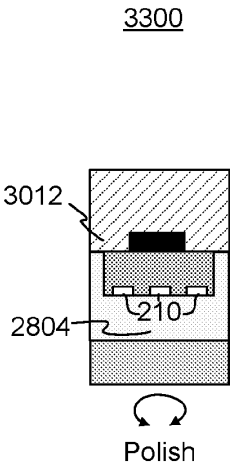


FIG. 33

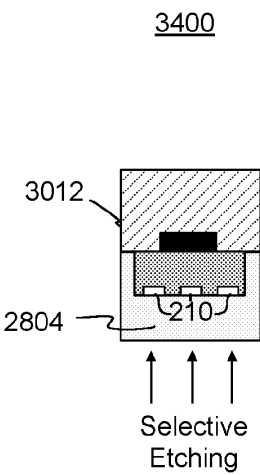


FIG. 34

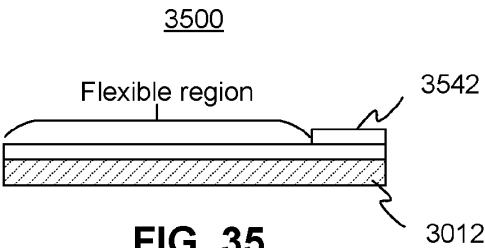


FIG. 35

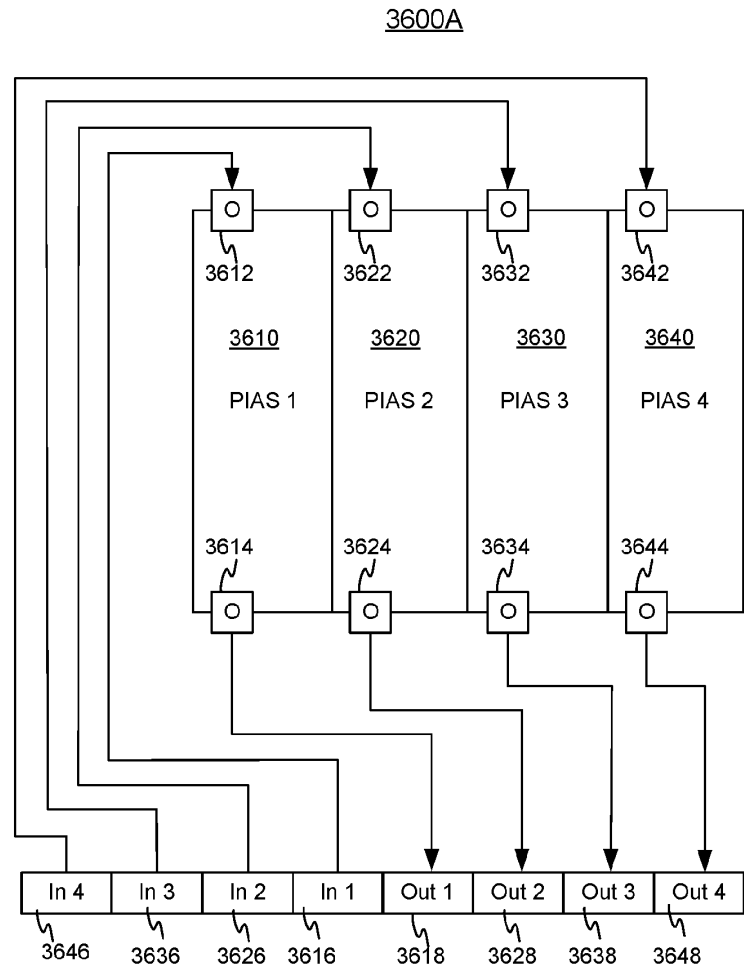


FIG. 36A

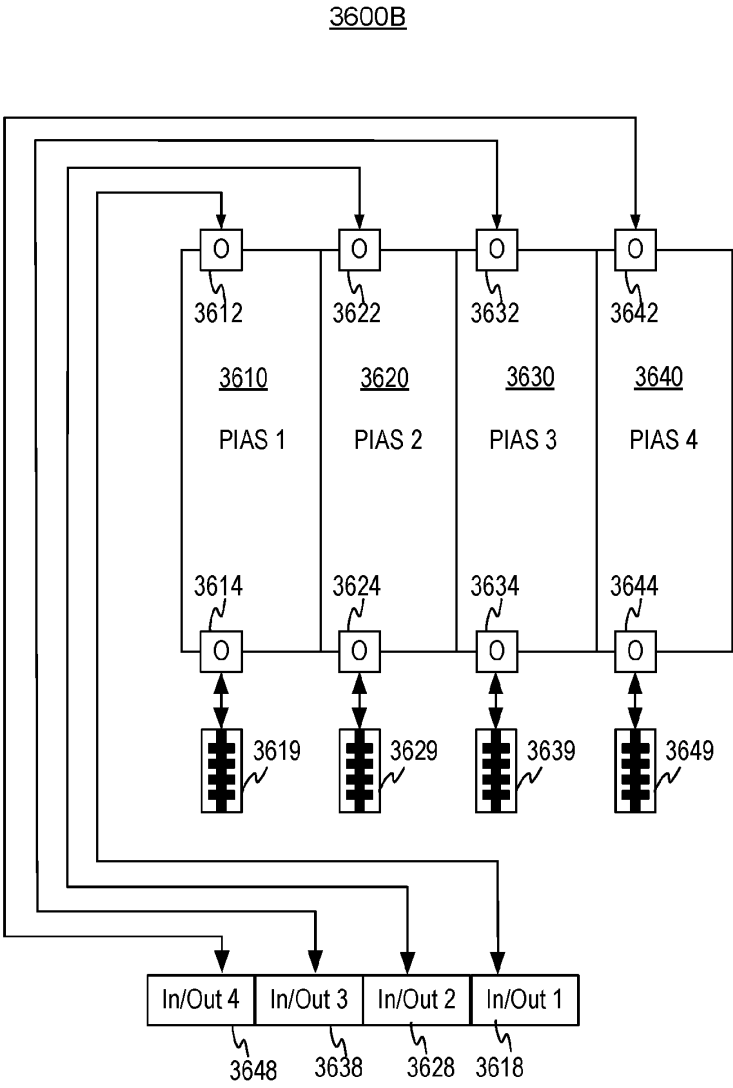


FIG. 36B

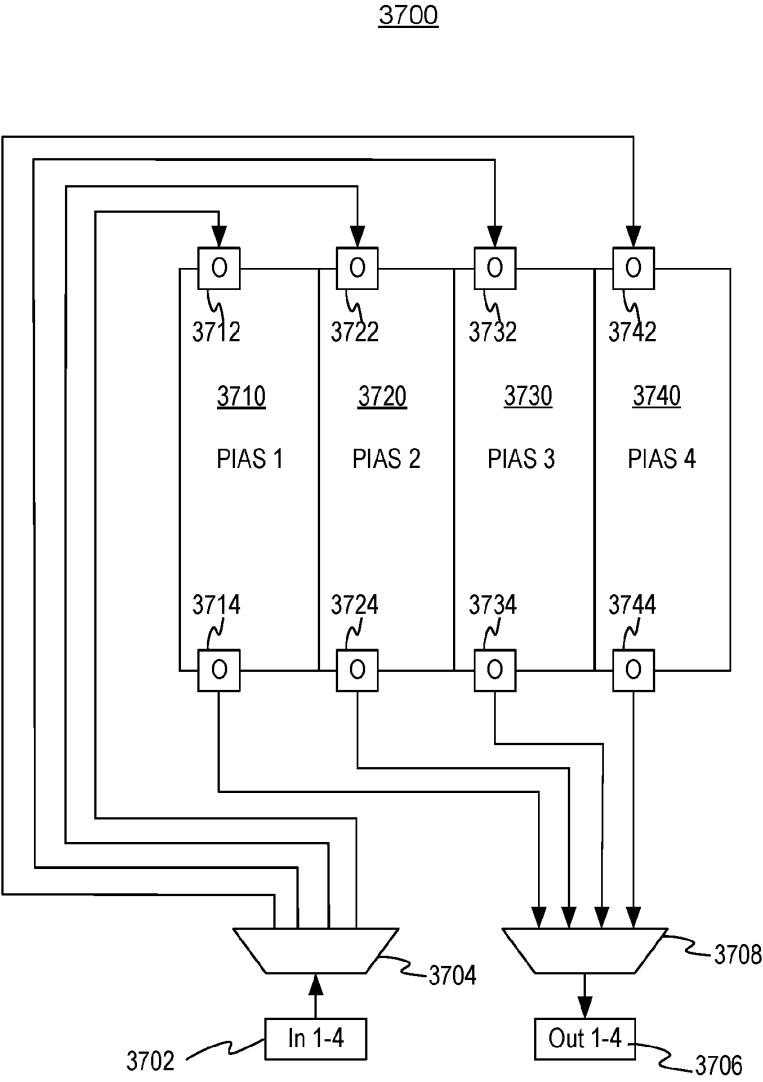


FIG. 37

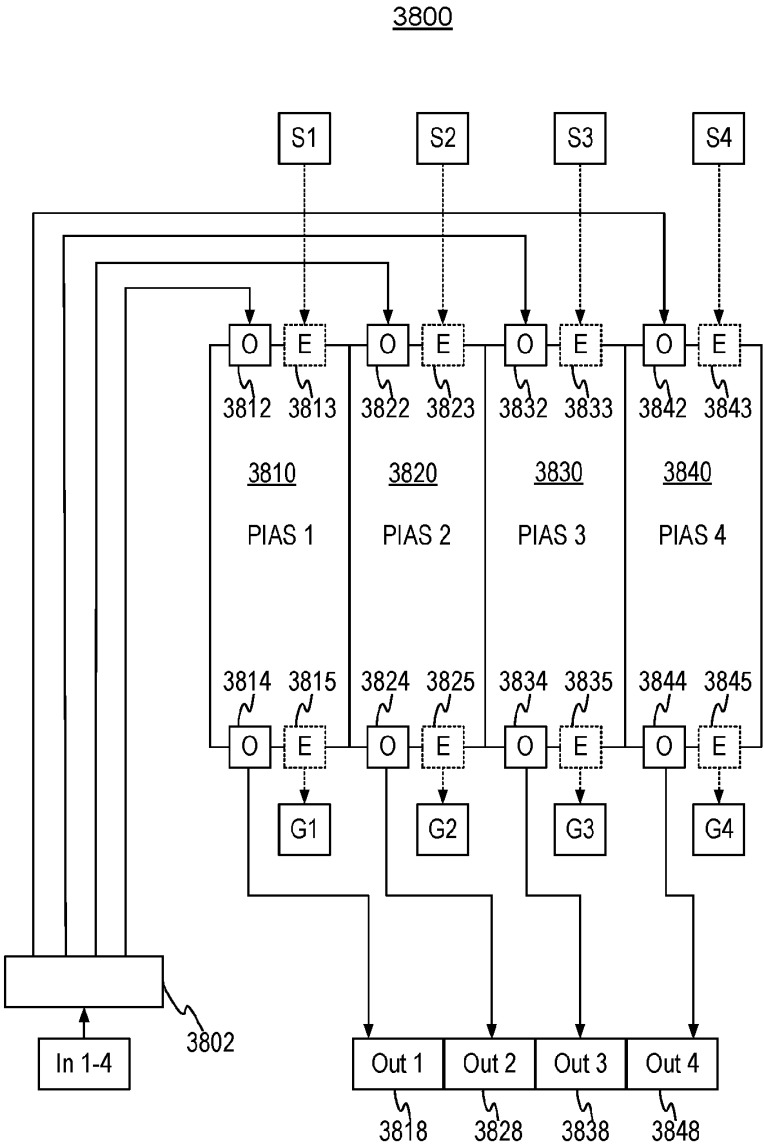
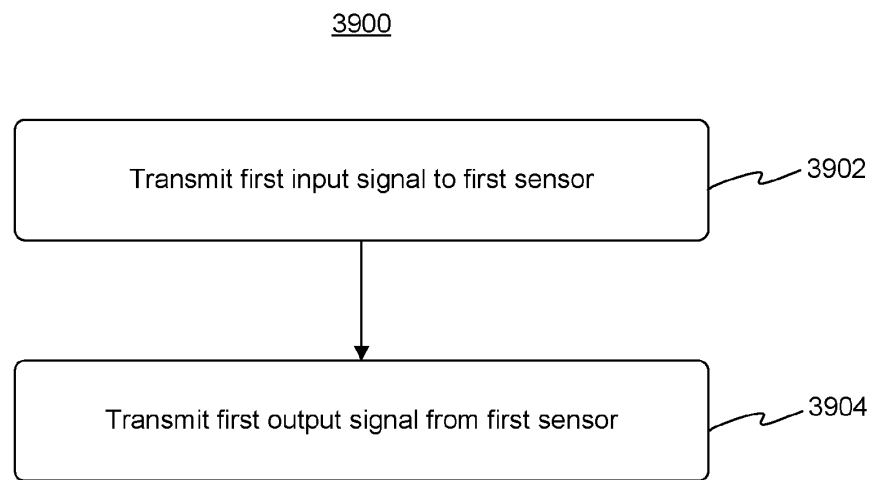
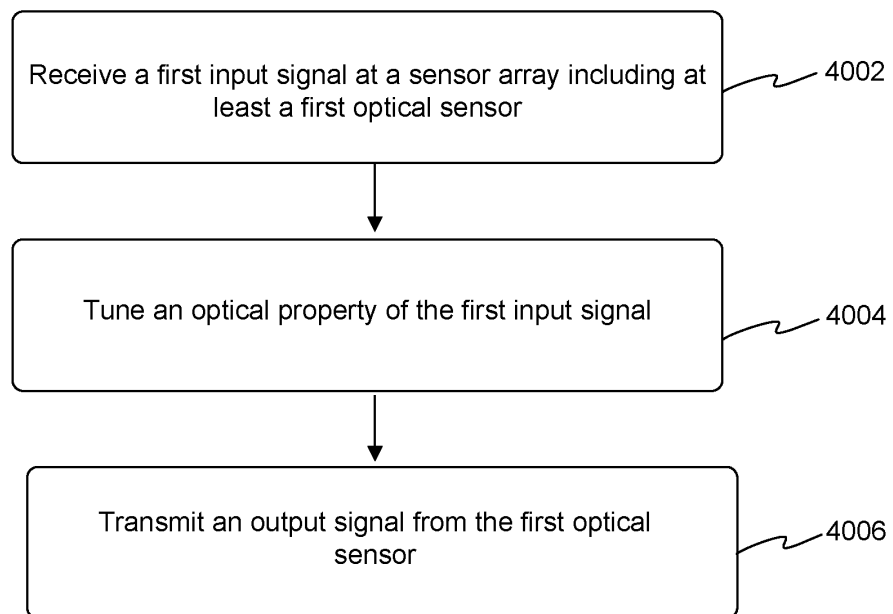
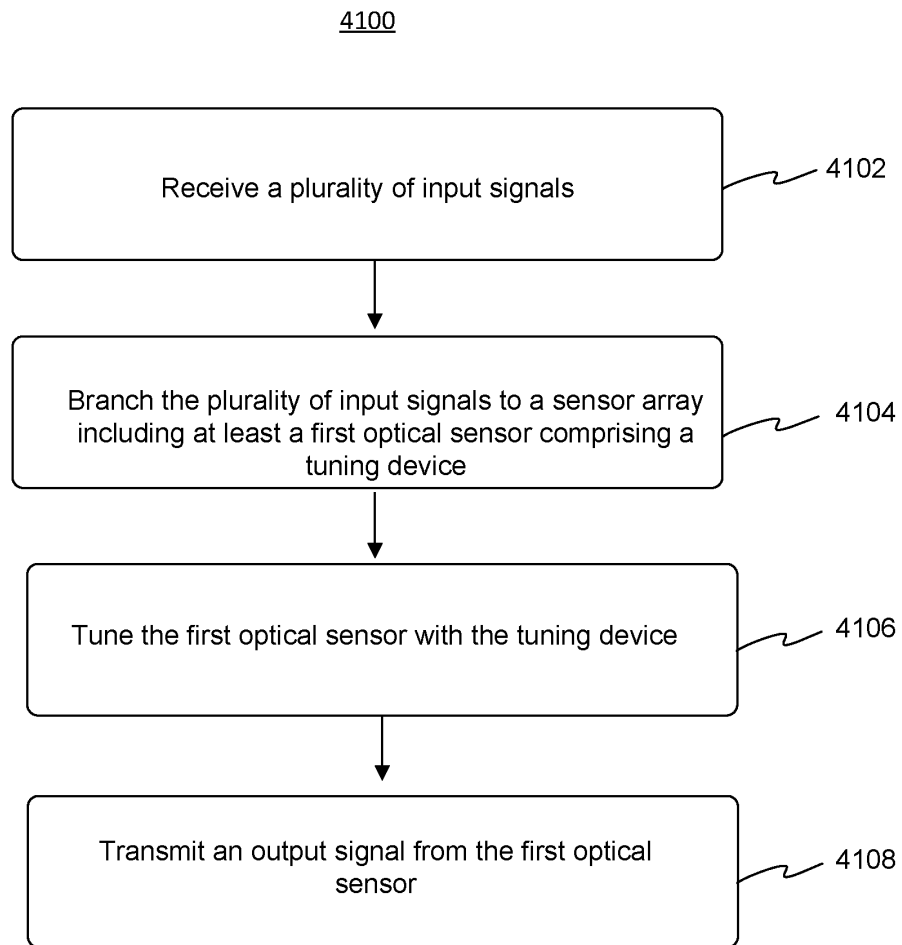


FIG. 38

**FIG. 39**

4000**FIG. 40**



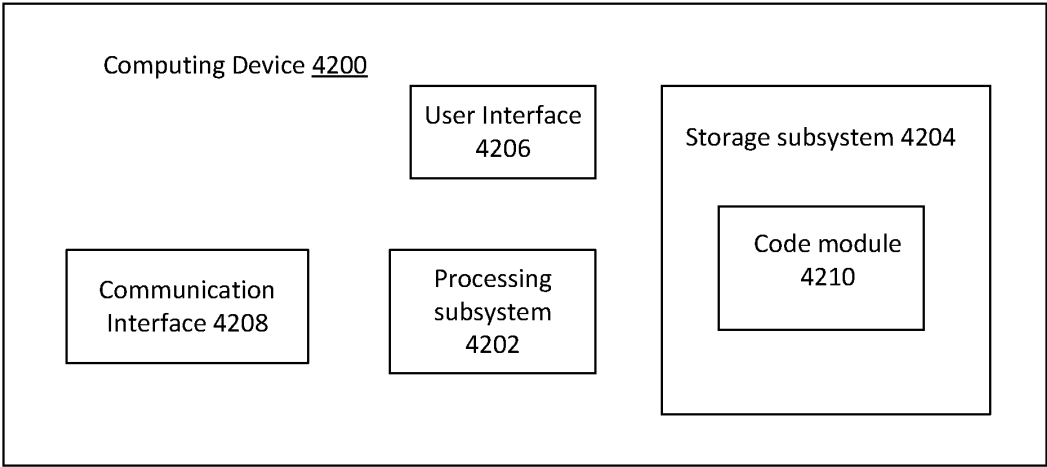


FIG. 42