FIG. 1A-1

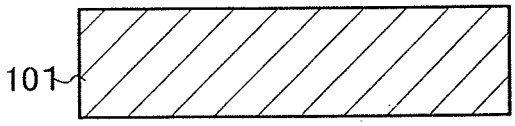


FIG. 1A-2

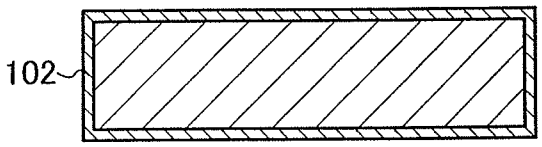


FIG. 1A-3

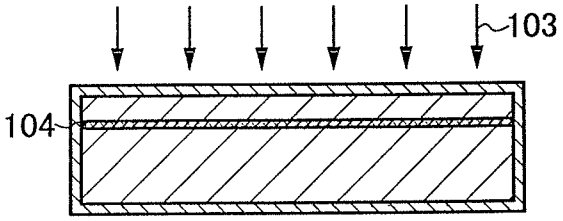


FIG. 1B-1

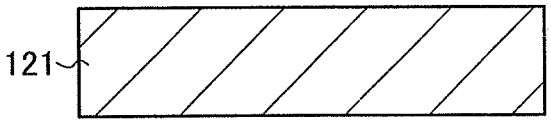


FIG. 1C

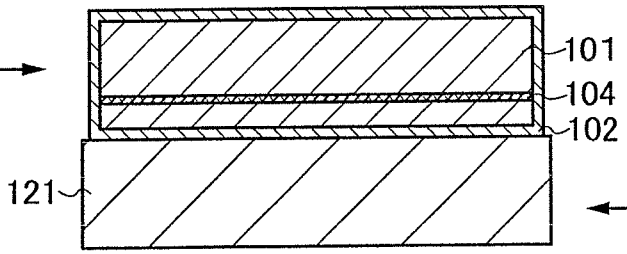


FIG. 1D

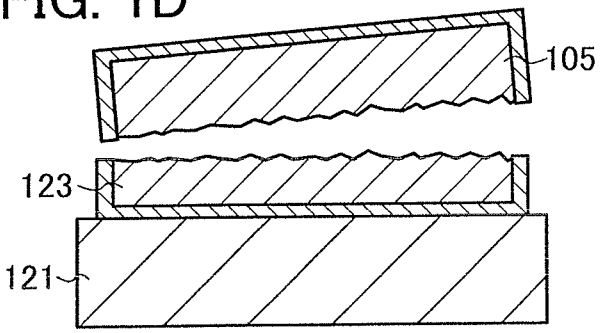


FIG. 2A

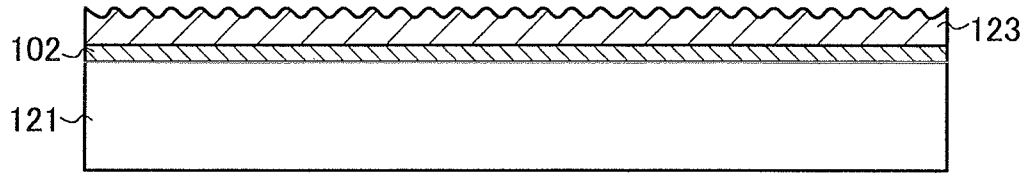


FIG. 2B

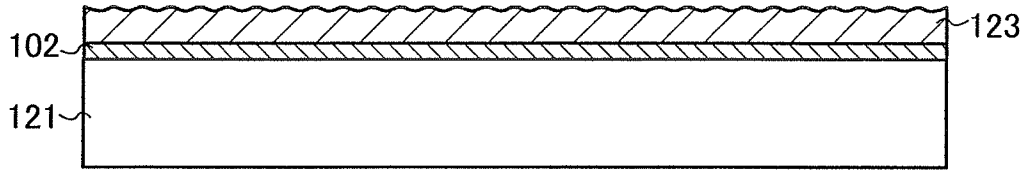


FIG. 2C

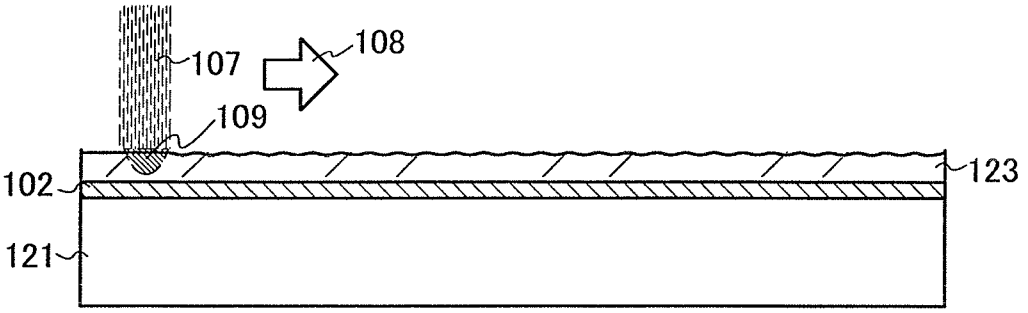


FIG. 2D

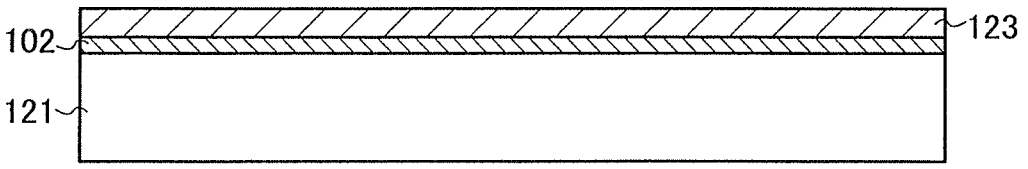


FIG. 2E

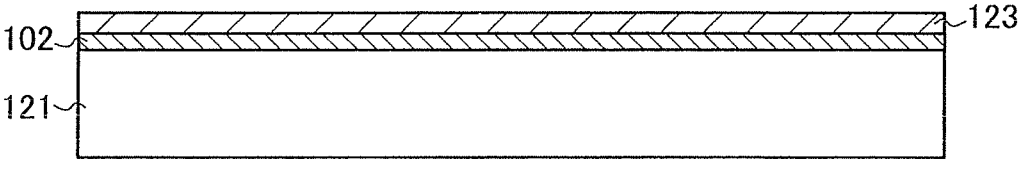


FIG. 3

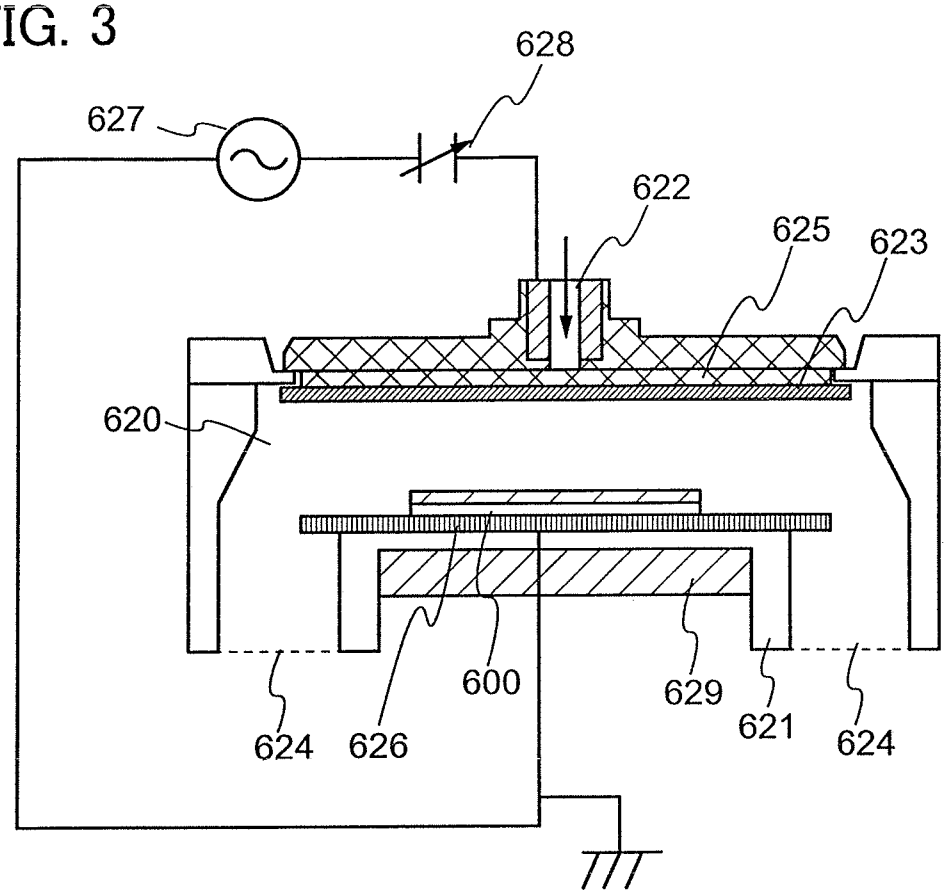


FIG. 4A-1

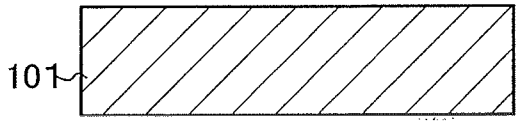


FIG. 4A-2

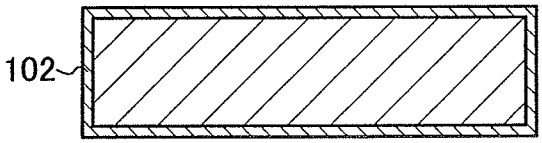


FIG. 4A-3

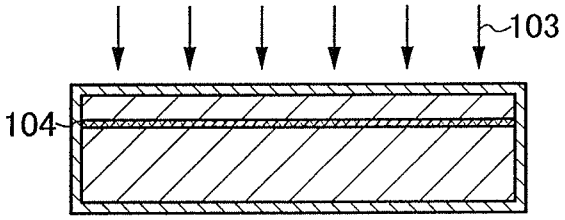


FIG. 4B-1

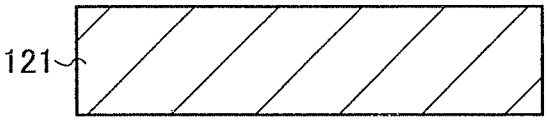


FIG. 4B-2

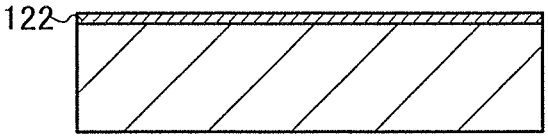


FIG. 4B-3

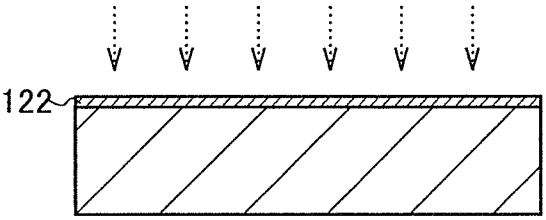


FIG. 4C

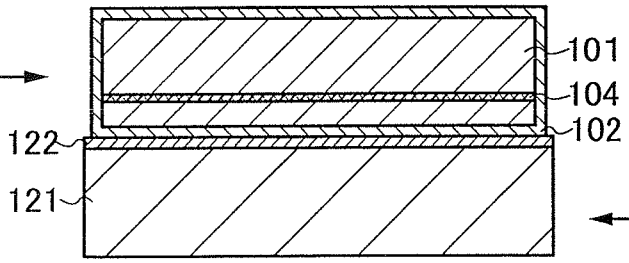


FIG. 4D

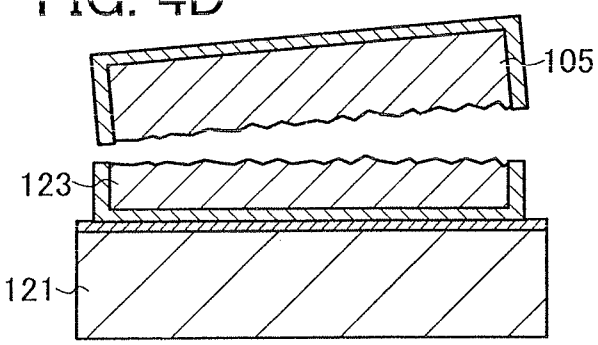


FIG. 5A

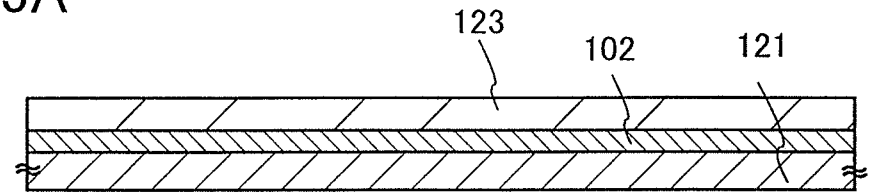


FIG. 5B

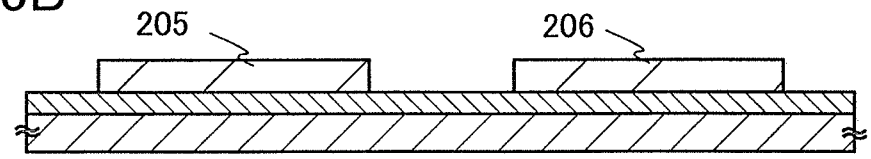


FIG. 5C

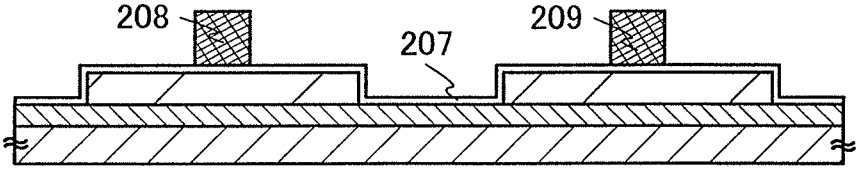


FIG. 5D

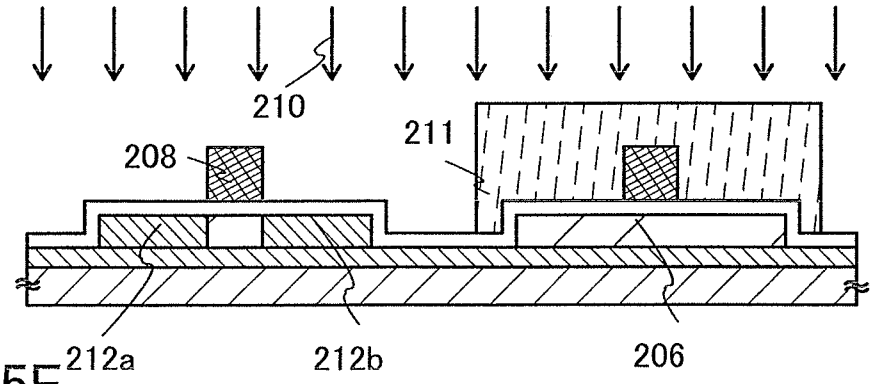


FIG. 5E

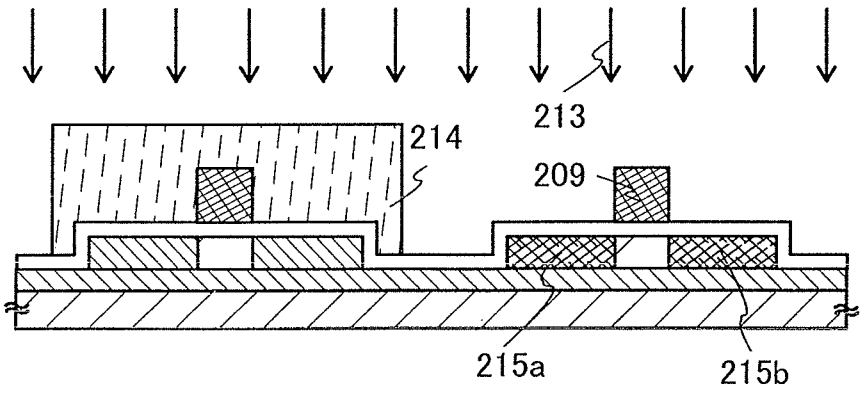


FIG. 6A

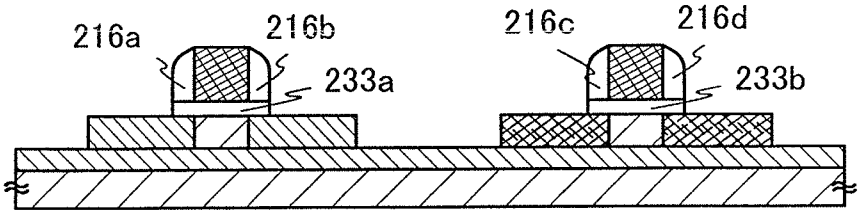


FIG. 6B

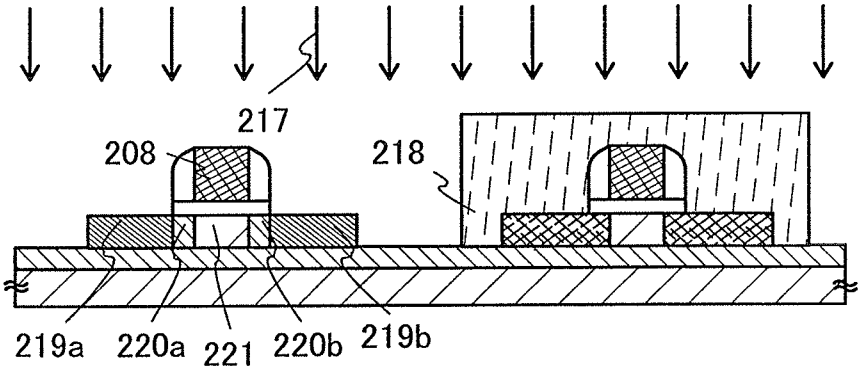


FIG. 6C

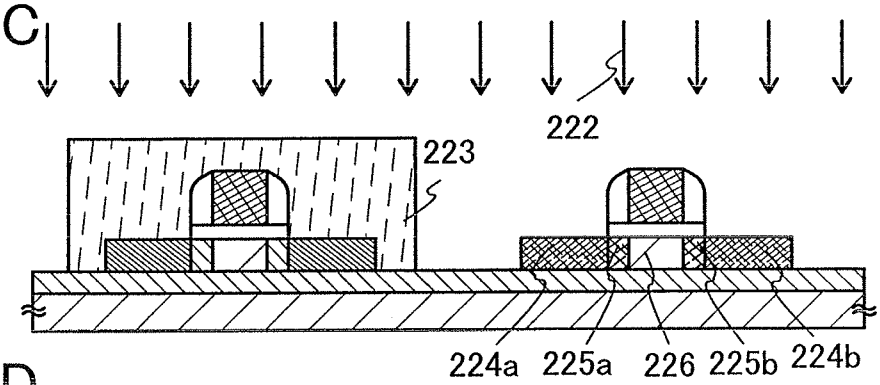


FIG. 6D

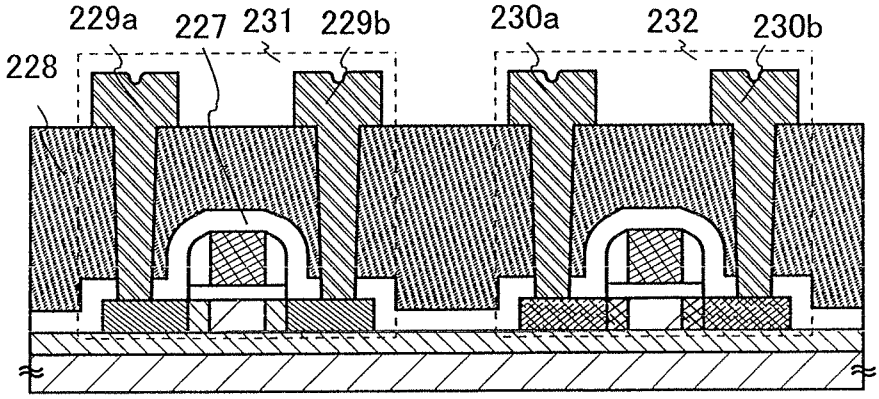


FIG. 7

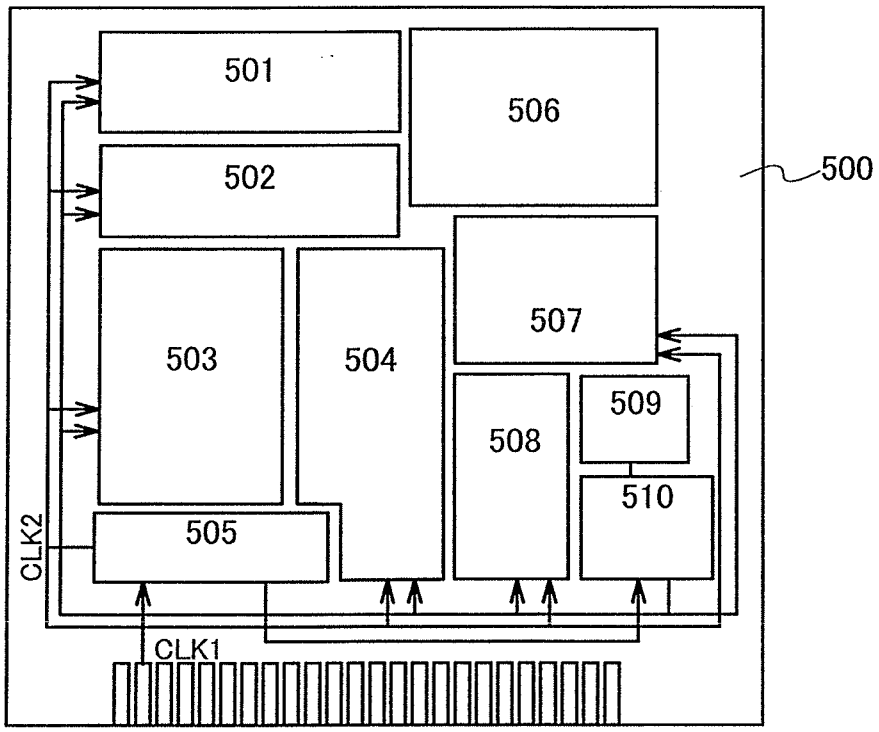


FIG. 8

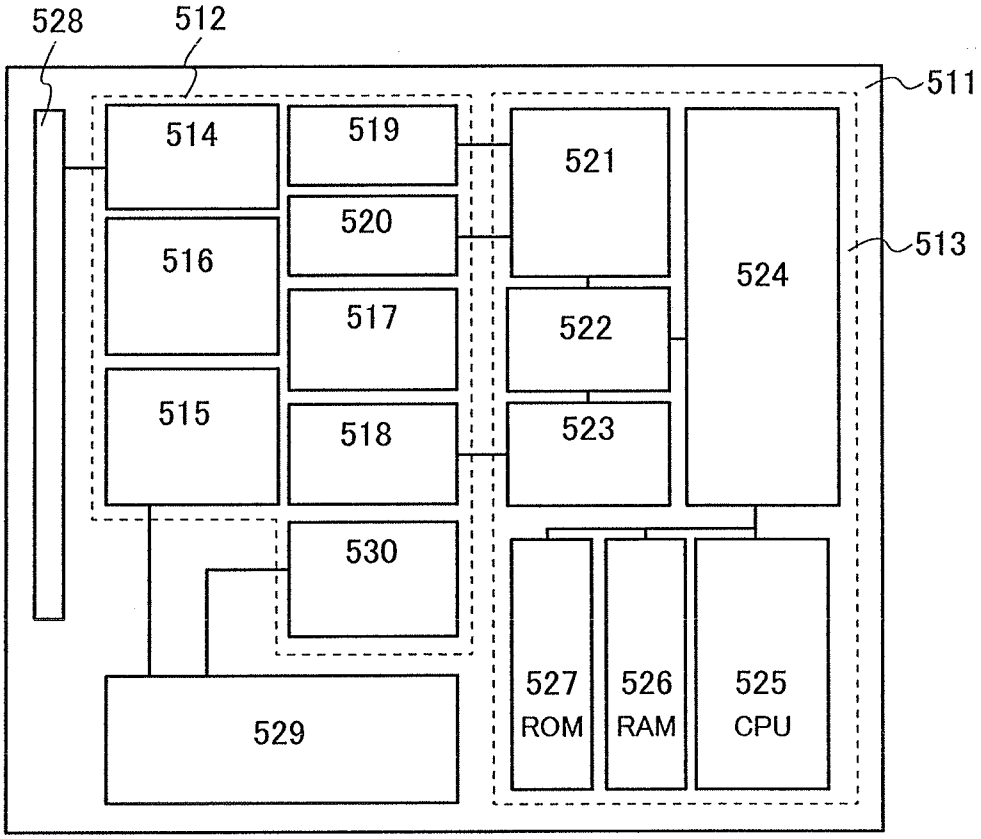

528
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FIG. 9A

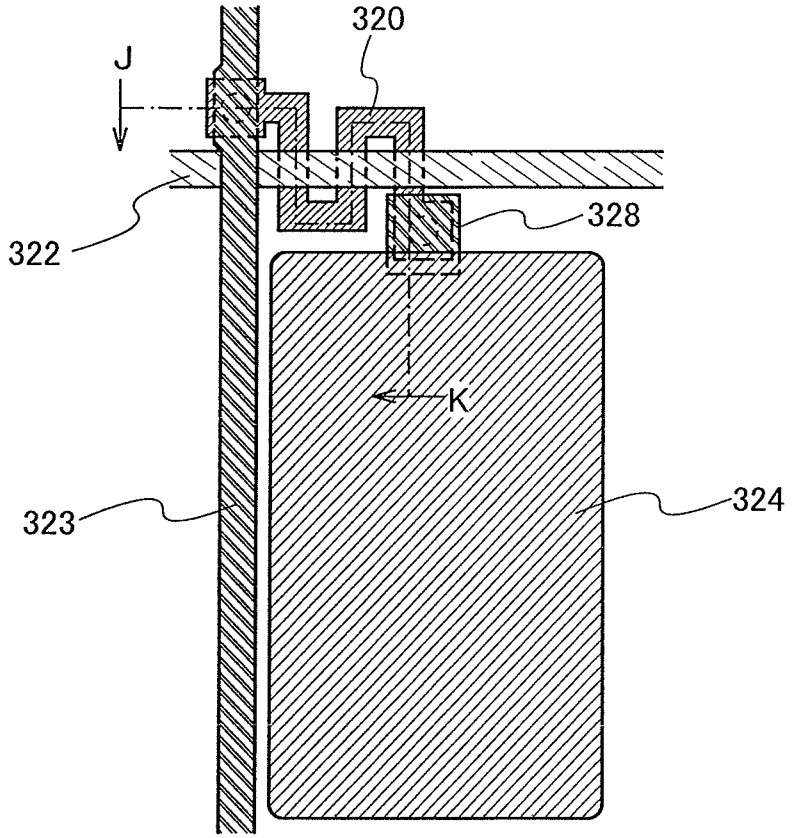

320
J
322
328
K
323
324

FIG. 9B

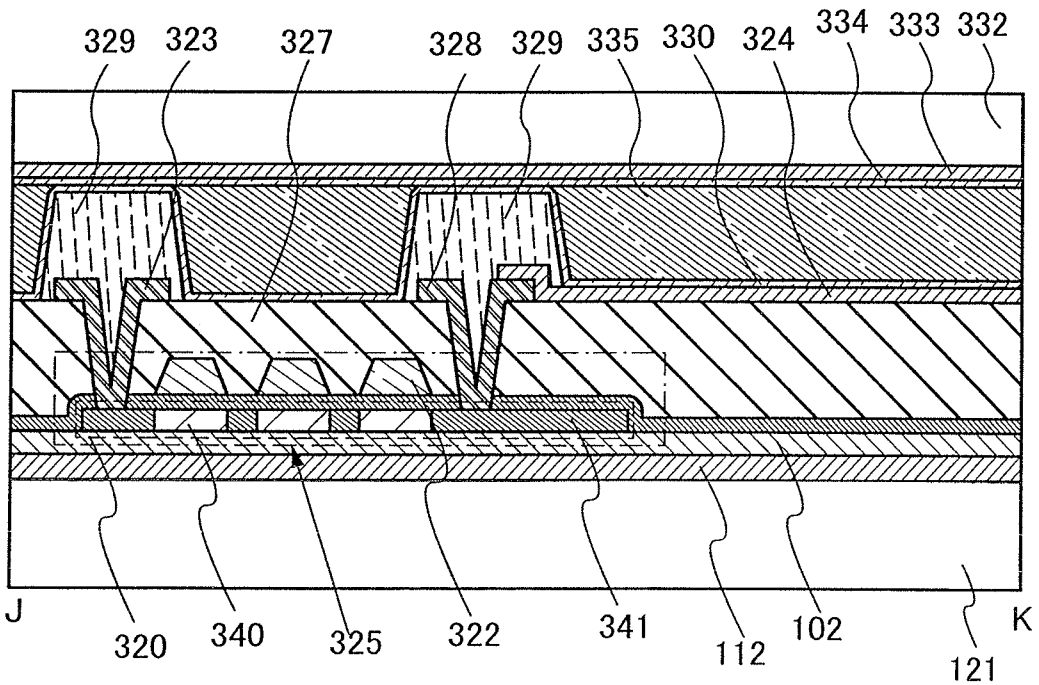

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332
J
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112
102
121
K

FIG. 10A

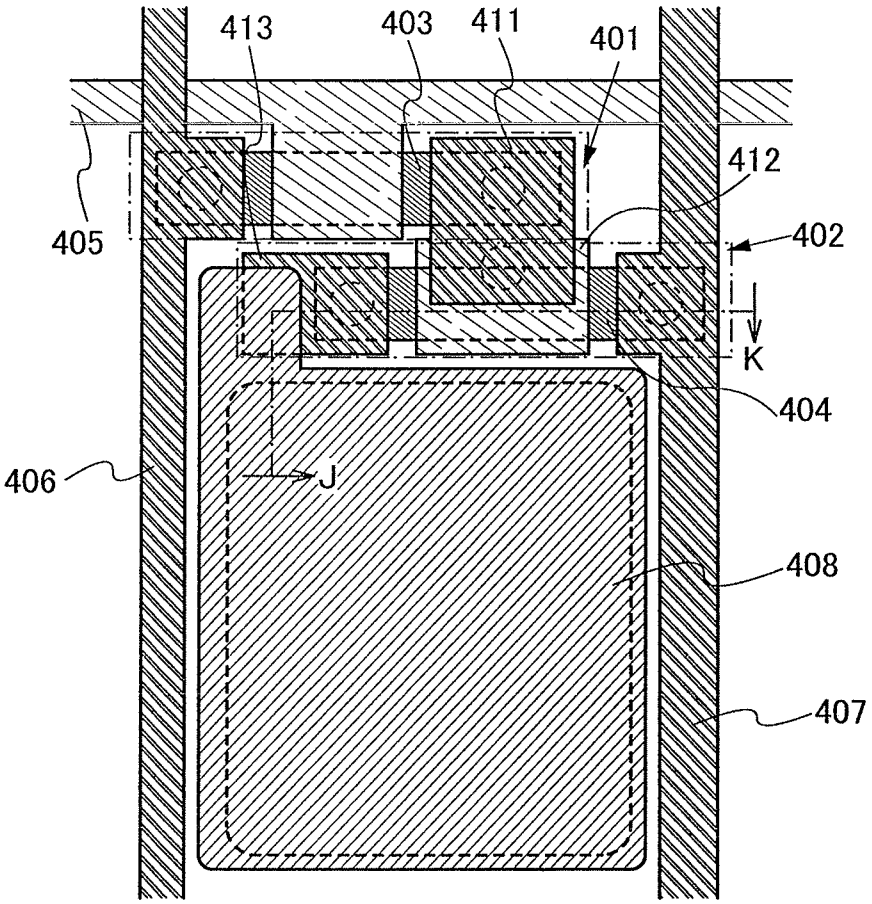


FIG. 10B

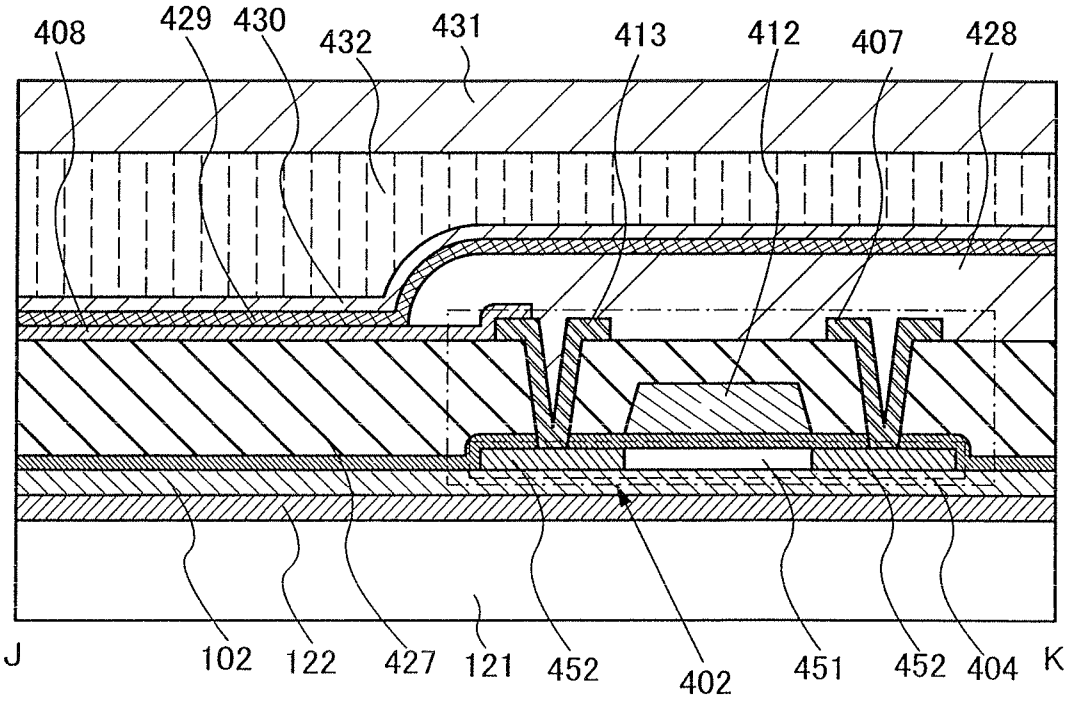


FIG. 11A

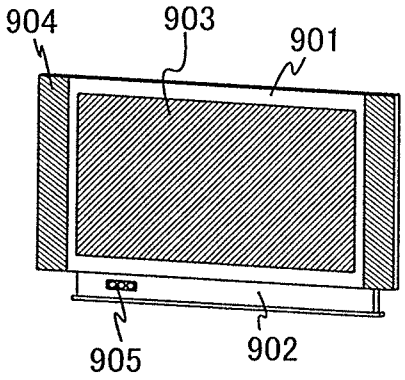


FIG. 11B

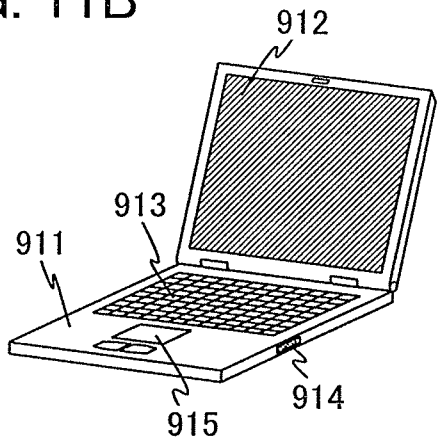


FIG. 11C

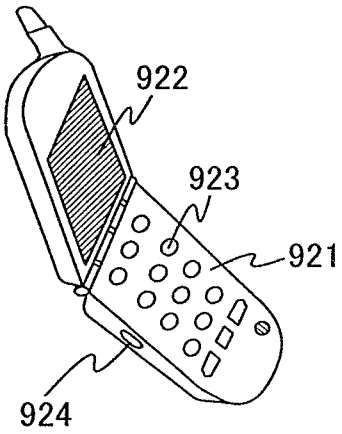


FIG. 11D

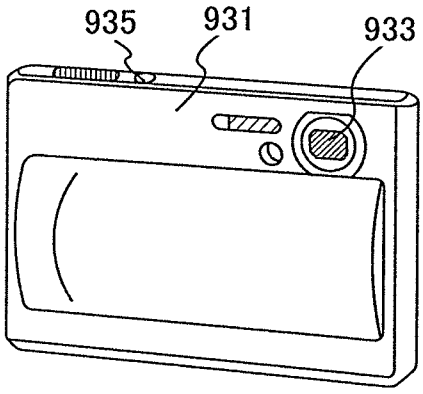


FIG. 11E

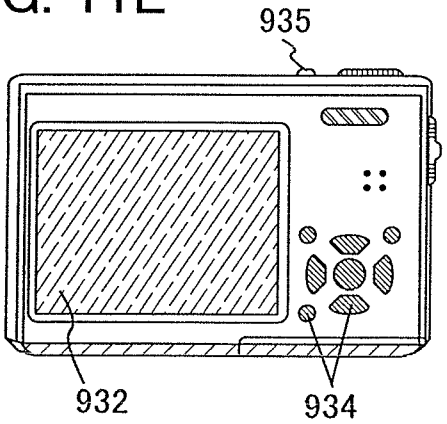


FIG. 11F

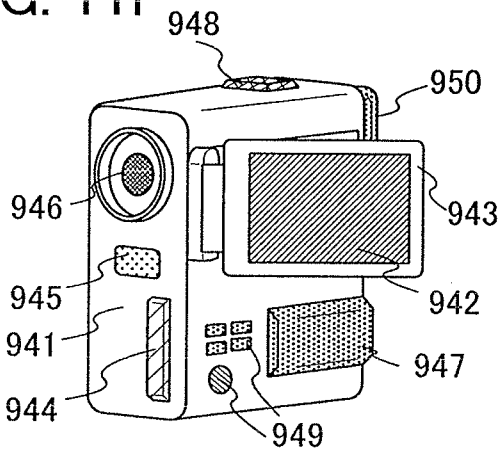


FIG. 12A

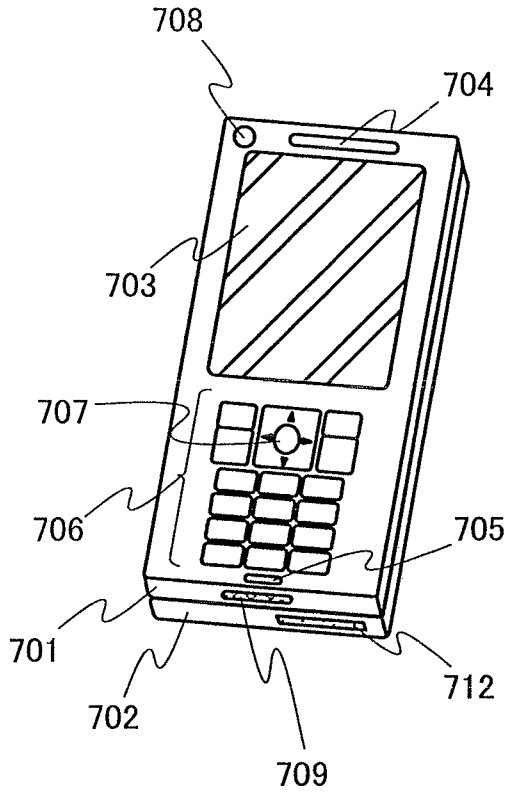


FIG. 12B

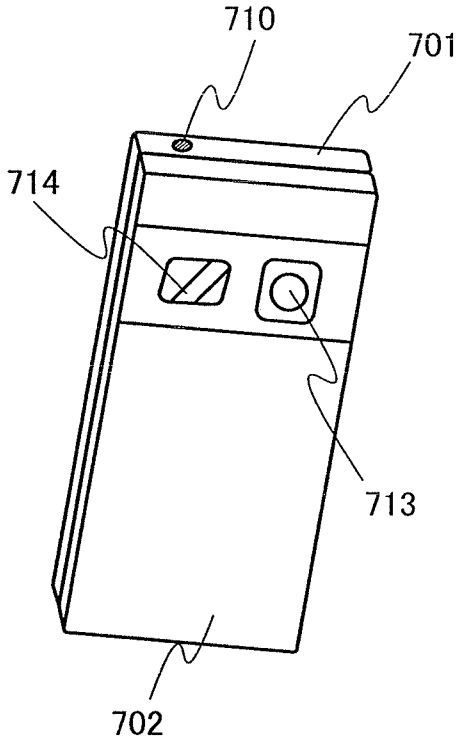


FIG. 12C

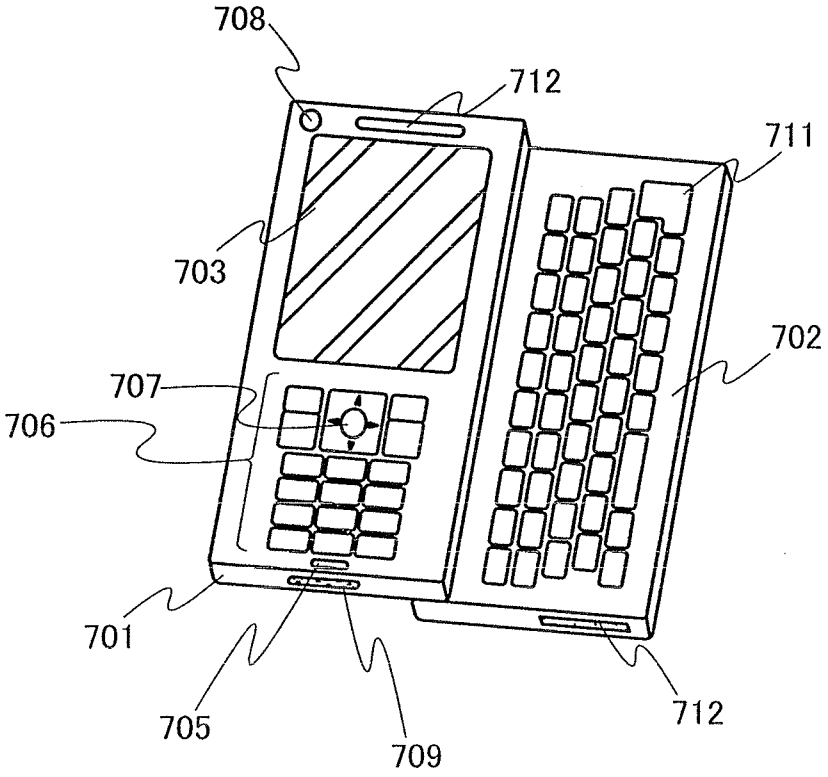


FIG. 13A

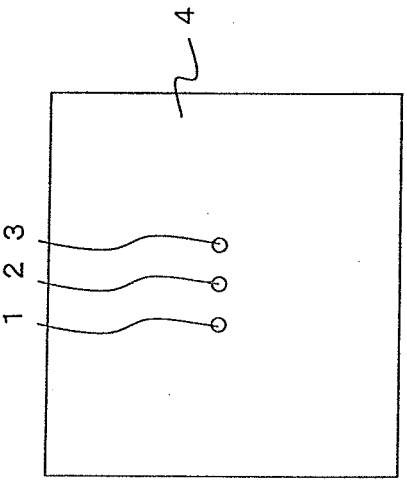


FIG. 13B

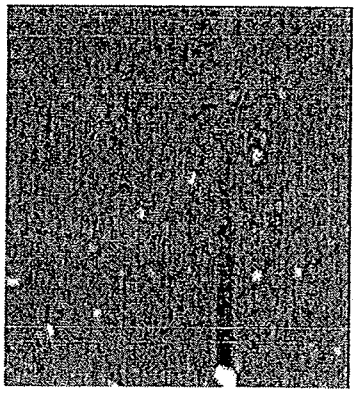


FIG. 13C

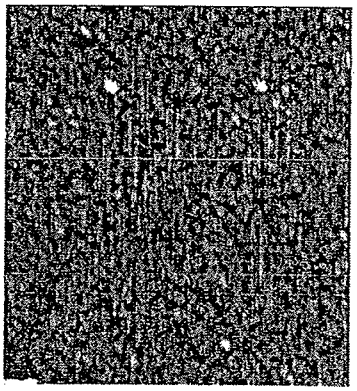


FIG. 13D

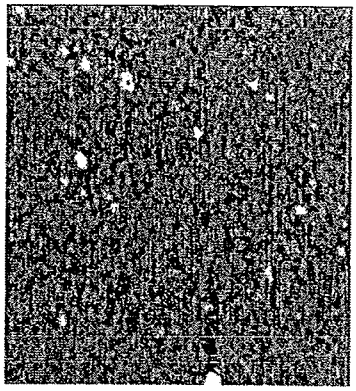


FIG. 14A

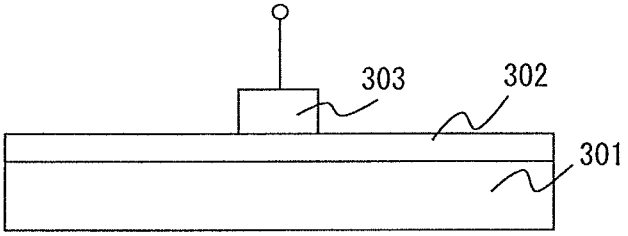


FIG. 14B

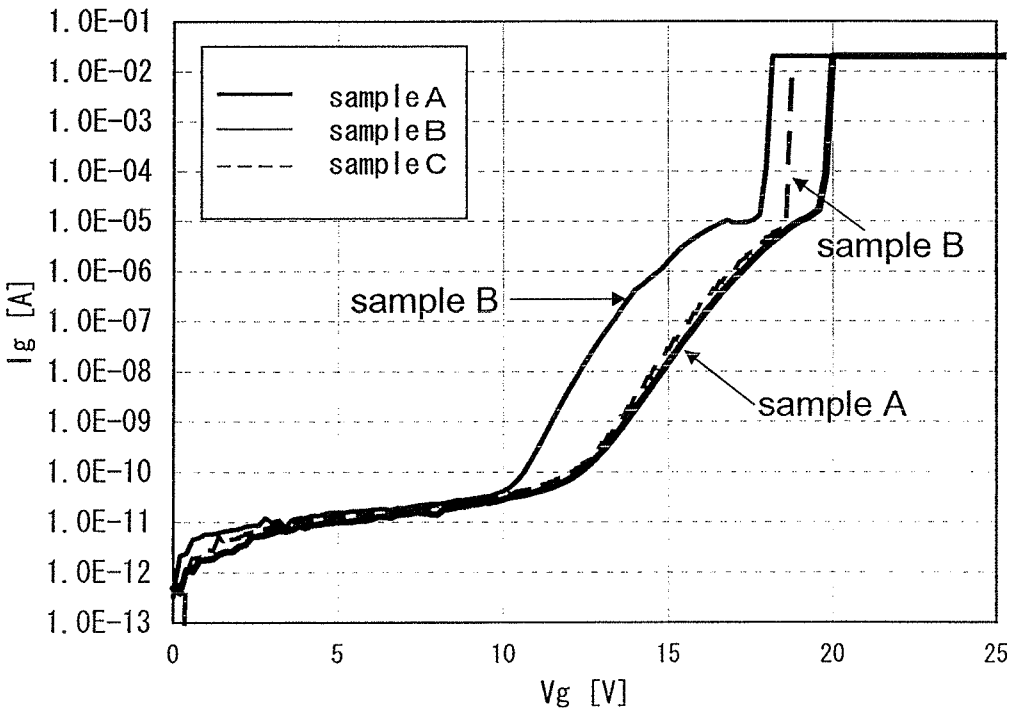


FIG. 15

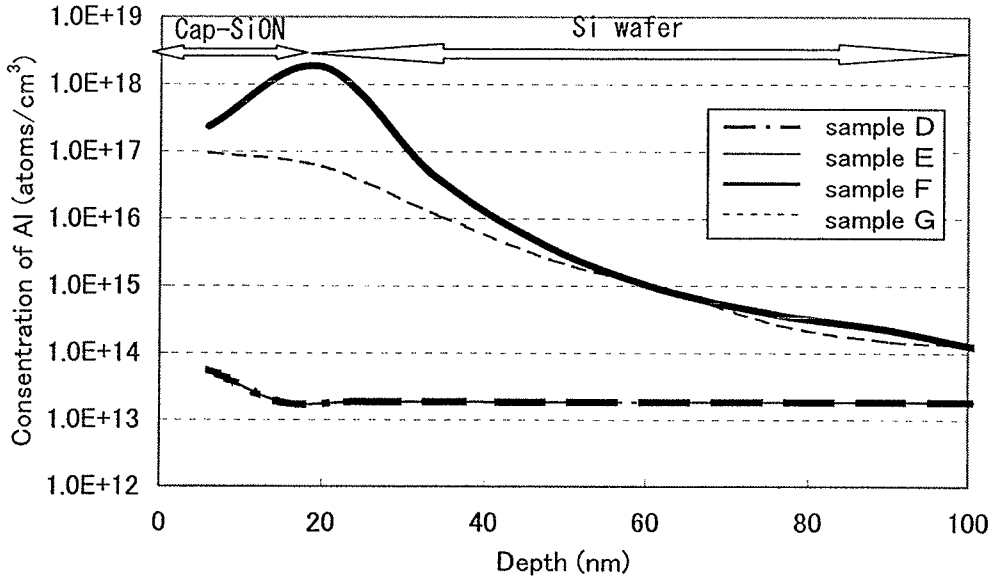

1.0E+19
1.0E+18
1.0E+17
1.0E+16
1.0E+15
1.0E+14
1.0E+13
1.0E+12
Consentration of Al (atoms/cm3)
Cap-SiON
Si wafer
sample D
sample E
sample F
sample G
0
20
40
60
80
100
Depth (nm)

FIG. 16

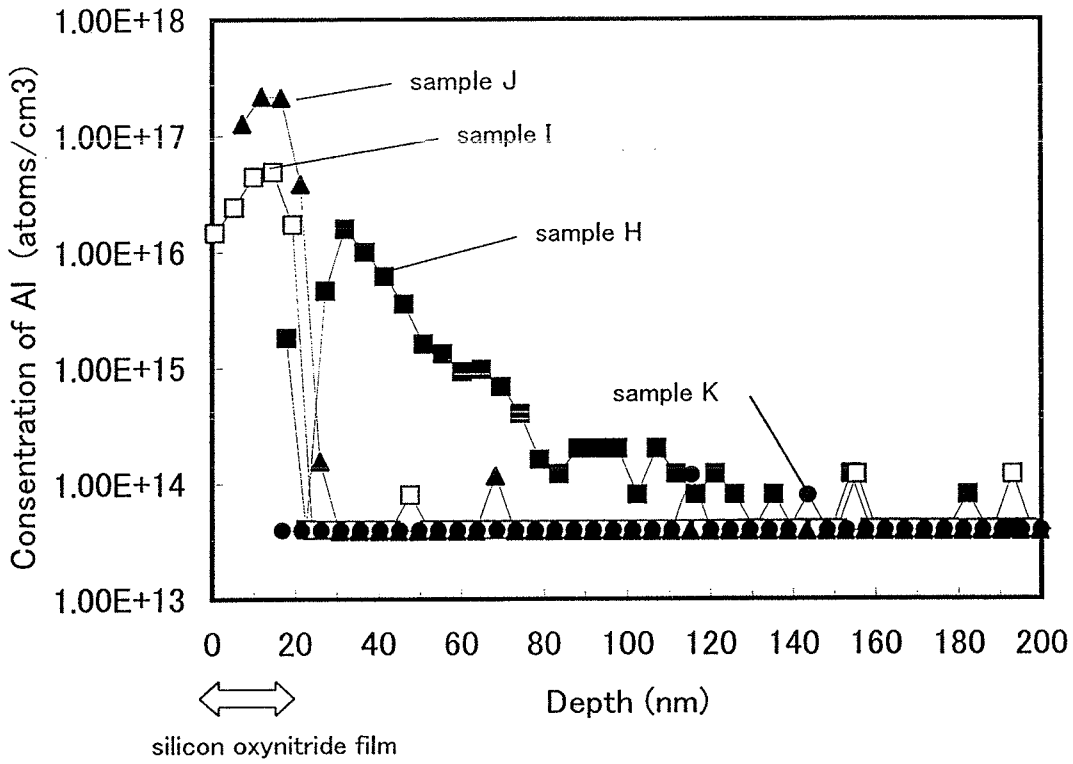

1.00E+18
1.00E+17
1.00E+16
1.00E+15
1.00E+14
1.00E+13
Consentration of Al (atoms/cm3)
sample J
sample I
sample H
sample K
0
20
40
60
80
100
120
140
160
180
200
Depth (nm)
silicon oxynitride film

FIG. 17A

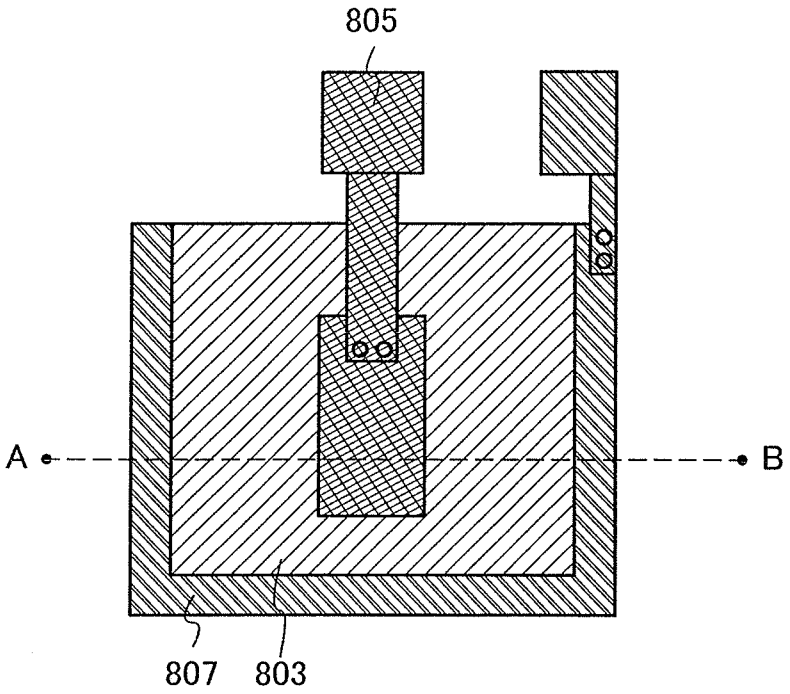


FIG. 17B

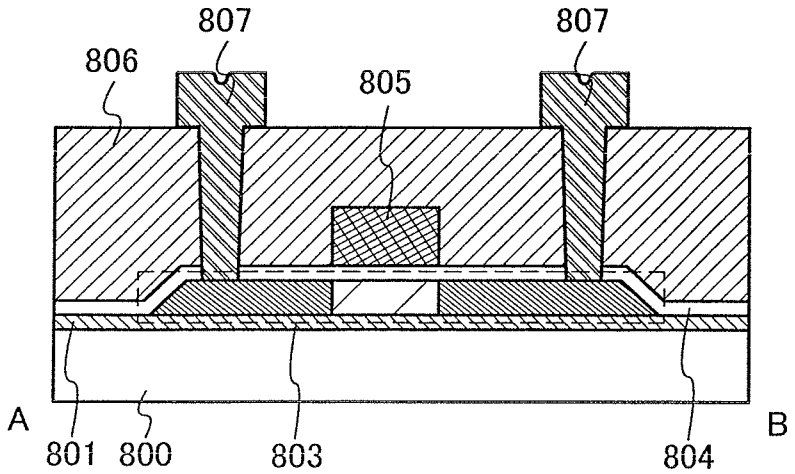


FIG. 18A

CVD－CVD

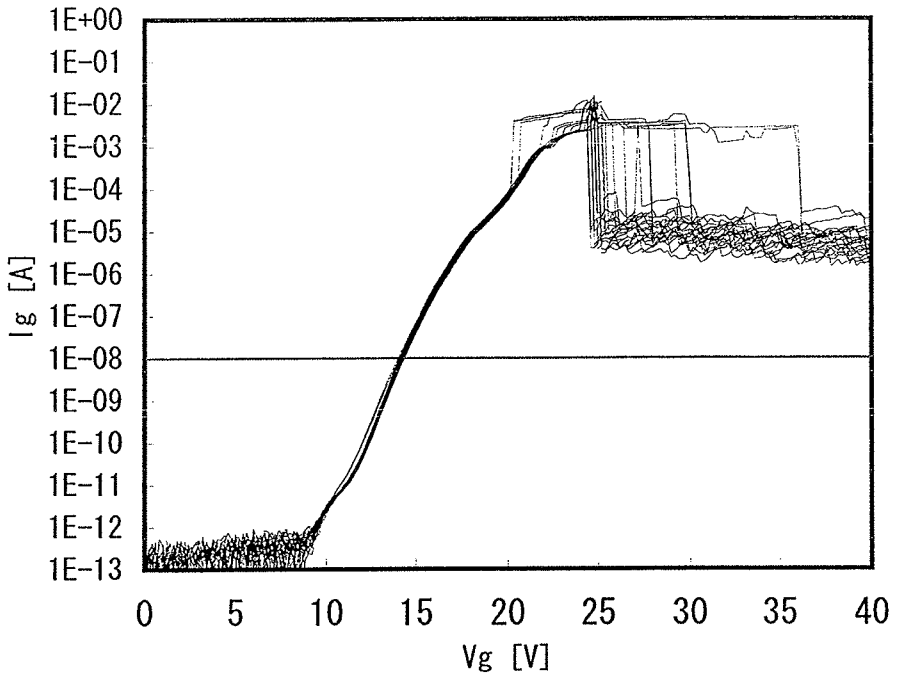


FIG. 18B

Dry－CVD

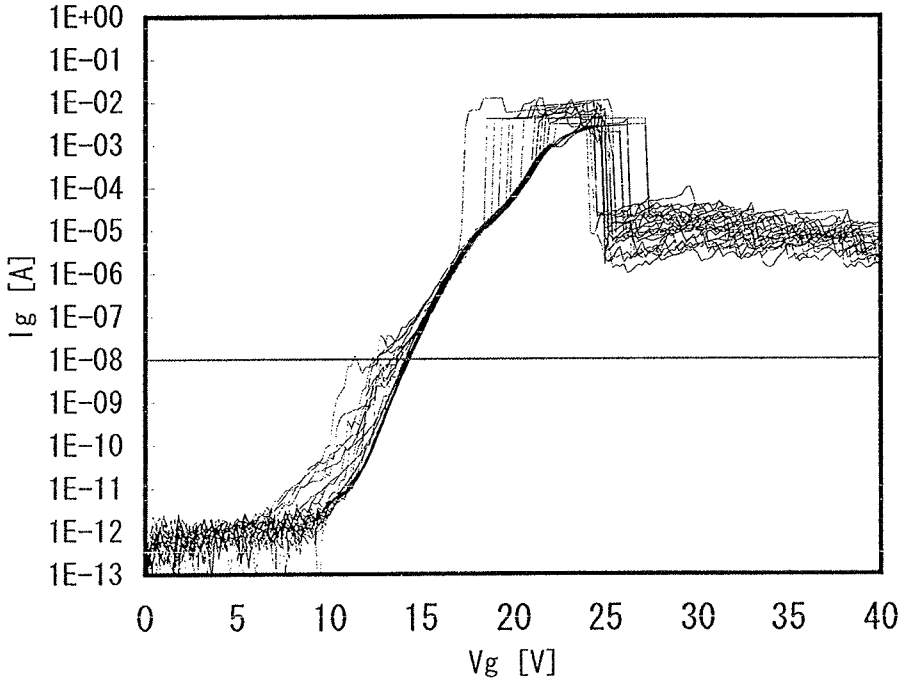


FIG. 19A

CVD-Dry

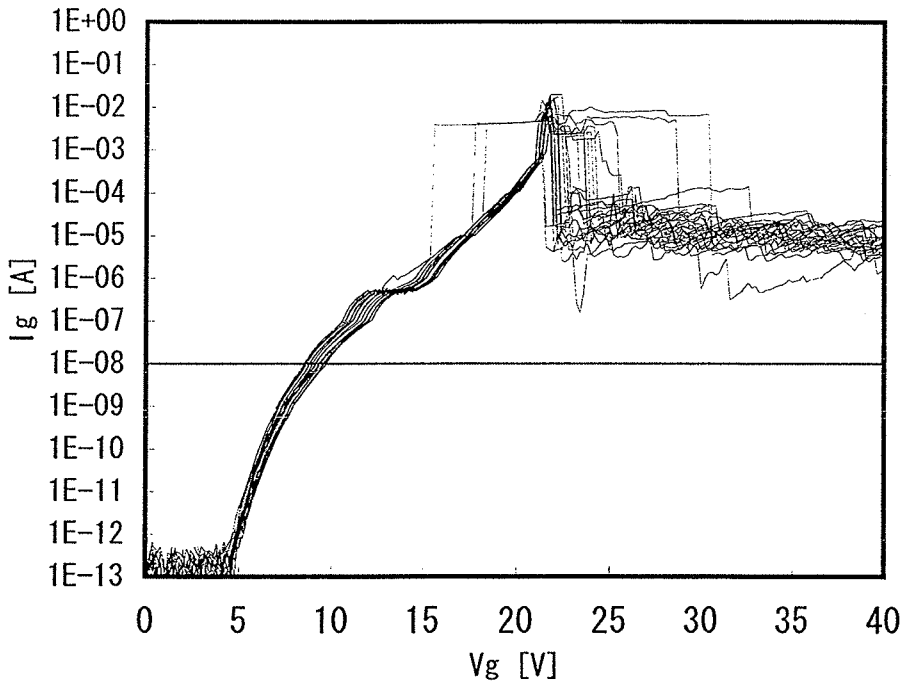


FIG. 19B

Dry-Dry

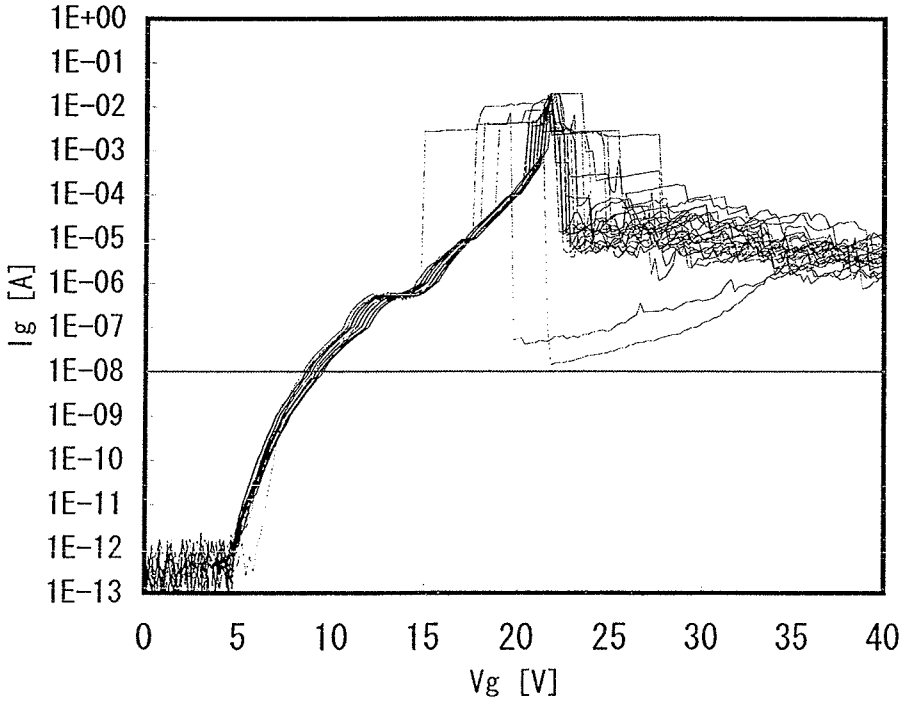


FIG. 20A

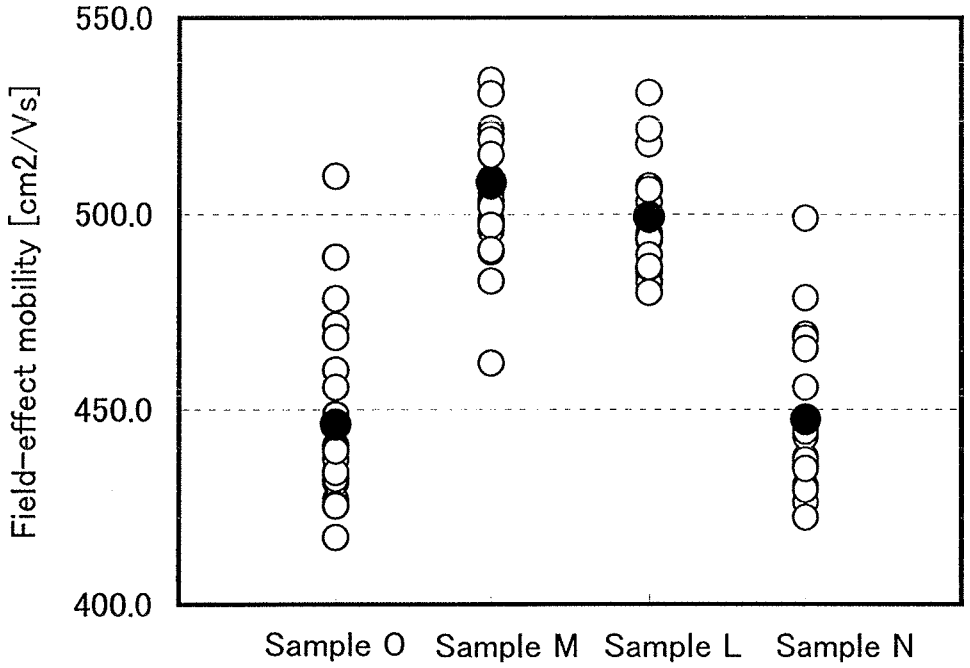


FIG. 20B

	sample O [cm2/Vs]	Sample N [cm2/Vs]	Sample L [cm2/Vs]	Sample M [cm2/Vs]
maximum	509.6	498.9	565.0	577.0
minimum	417.2	422.4	479.9	462.0
average	446.2	447.5	499.2	508.1