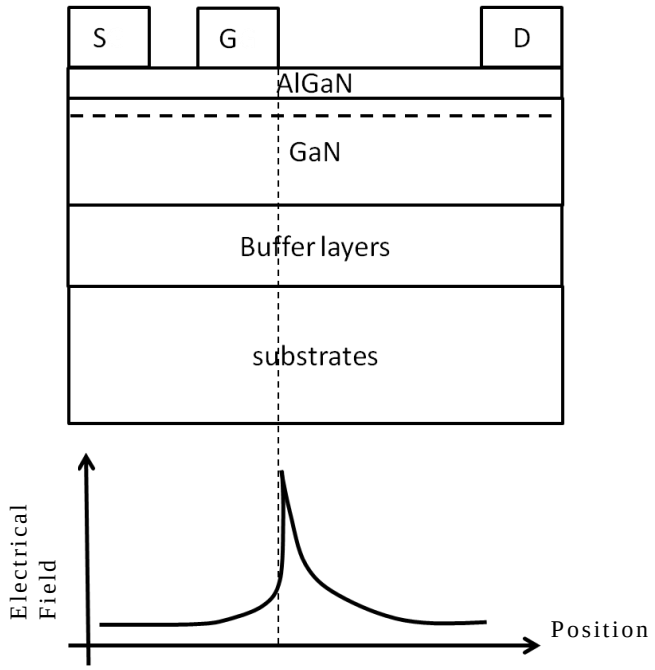

S
G
D
AlGaN
GaN
Buffer layers
substrates
Electrical Field
Position

FIG. 1

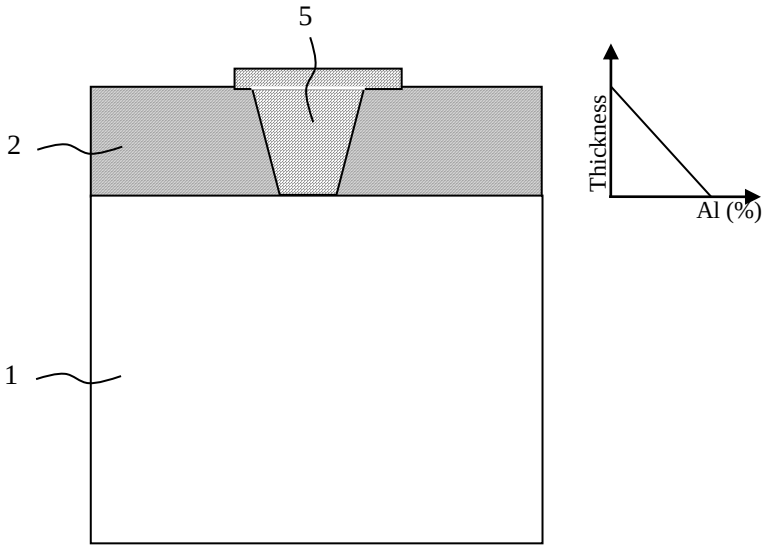

5
2
1
Thickness
Al (%)

FIG. 2

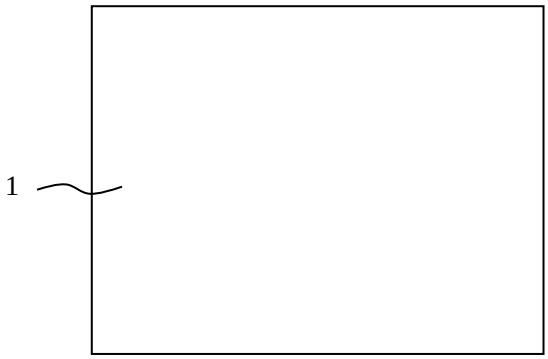


FIG. 3A

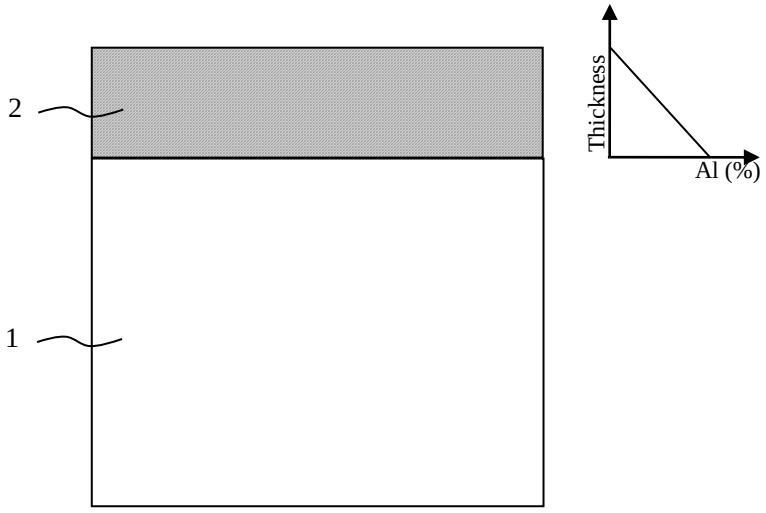


FIG. 3B

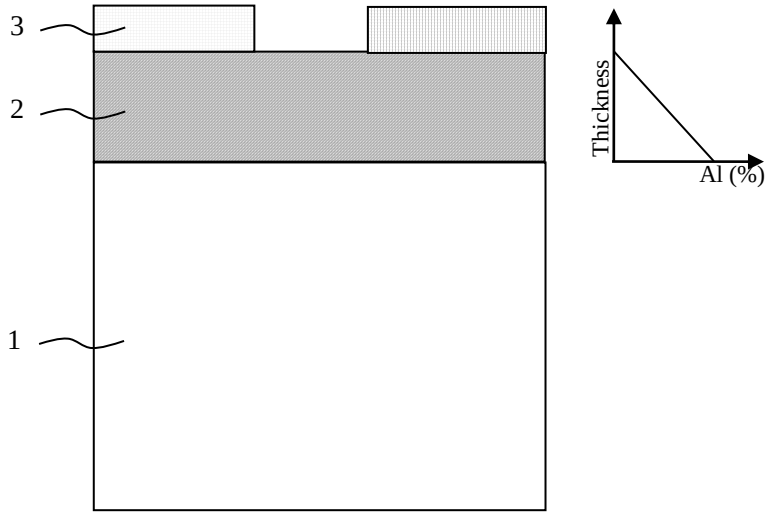


FIG. 3C

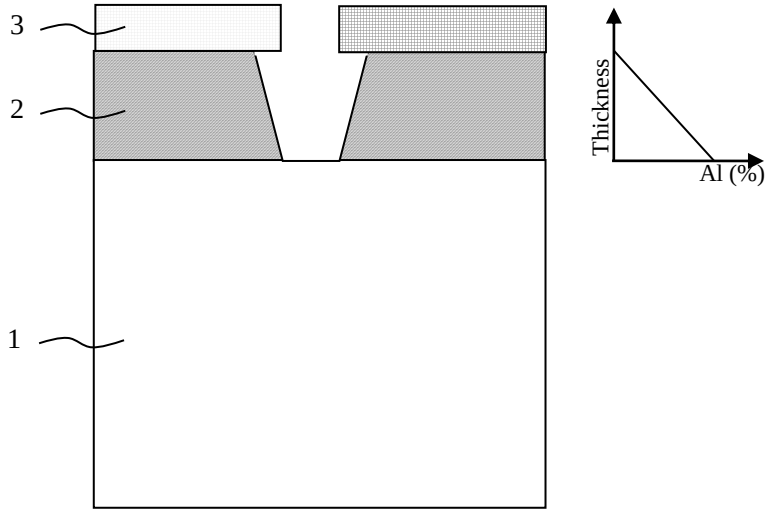


FIG. 3D1

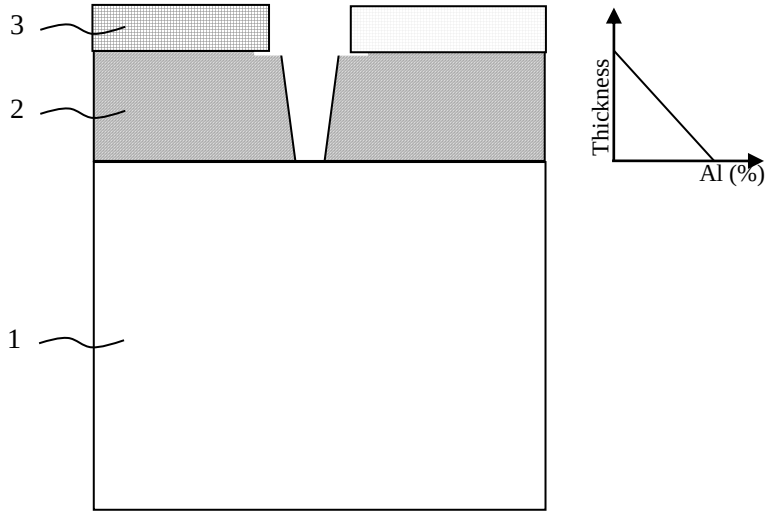


FIG. 3D2

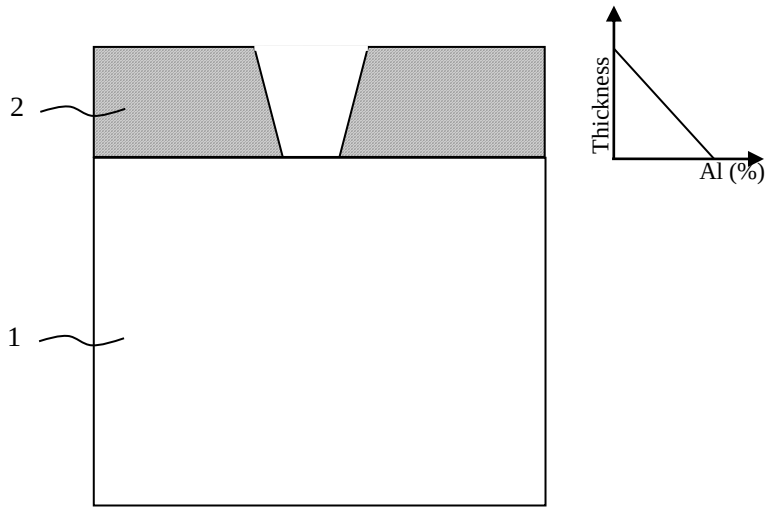


FIG. 3E

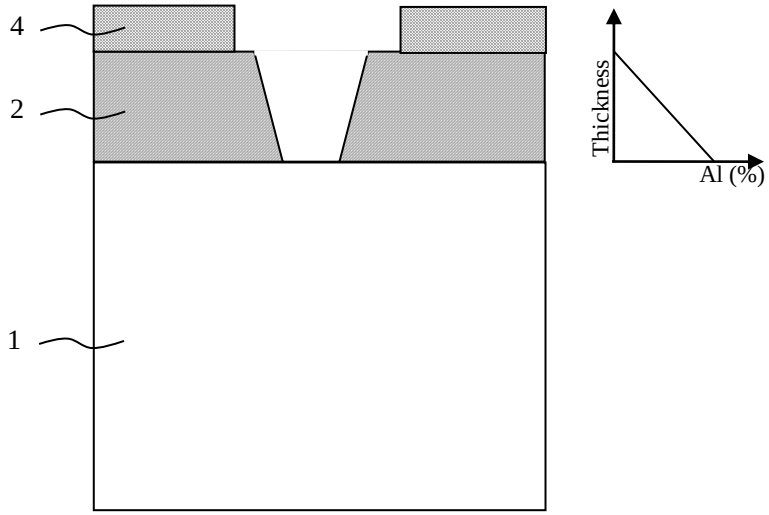


FIG. 3F

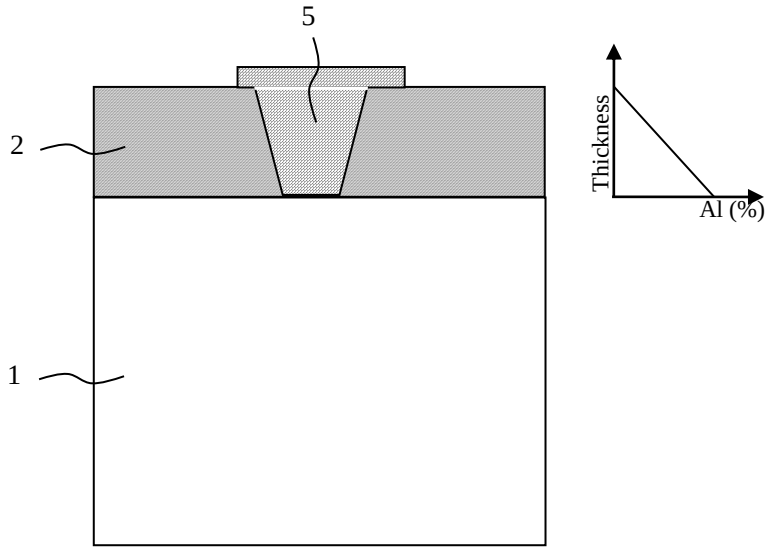


FIG. 3G

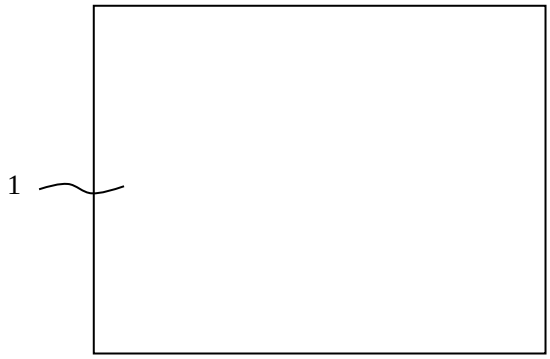


FIG. 4A

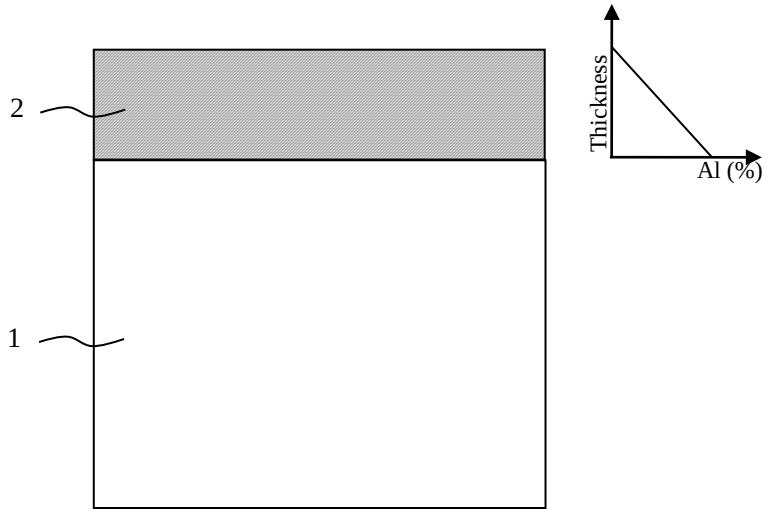


FIG. 4B

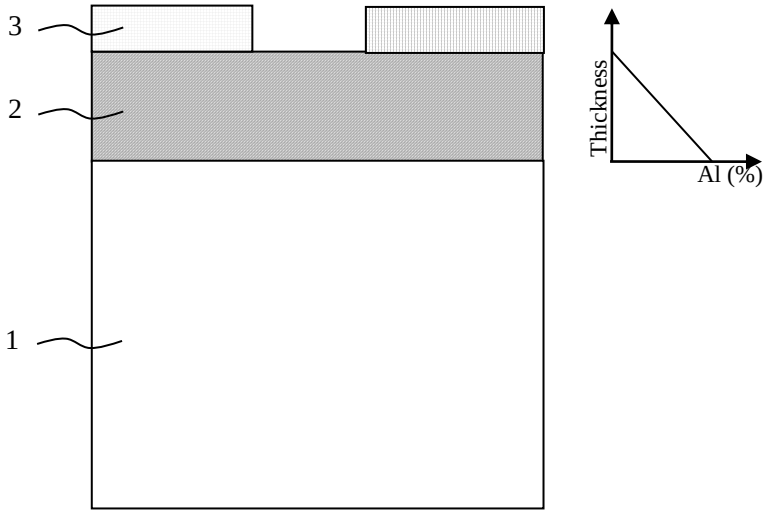


FIG. 4C

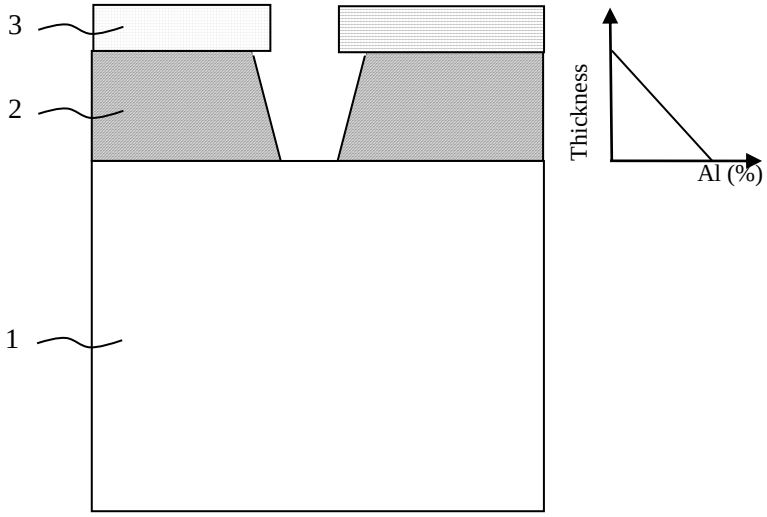


FIG. 4D

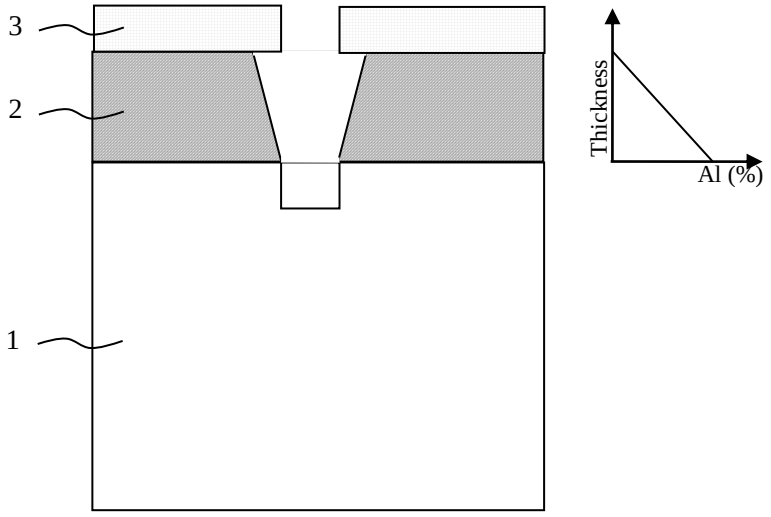


FIG. 4E

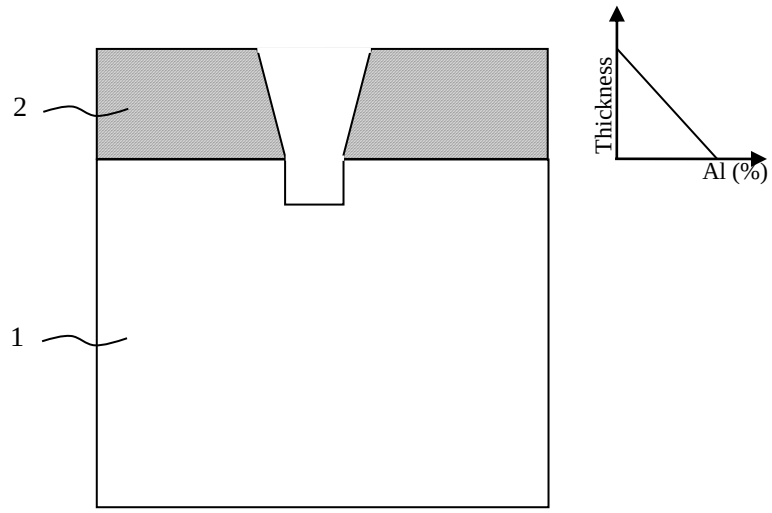


FIG. 4F

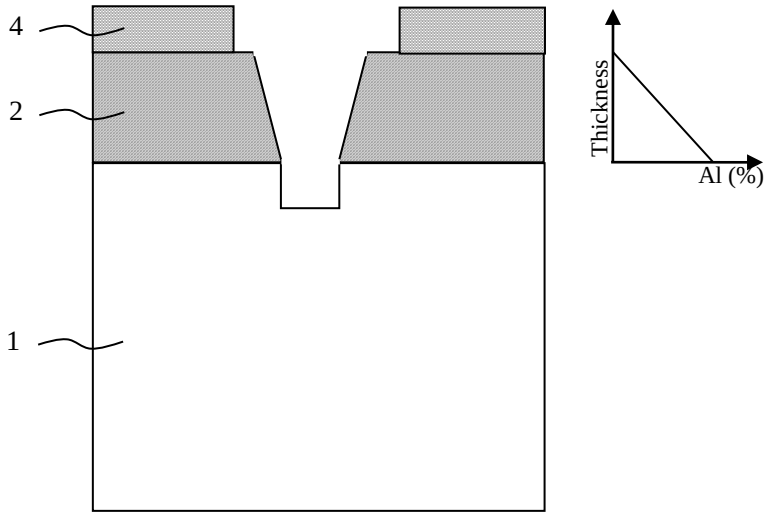


FIG. 4G

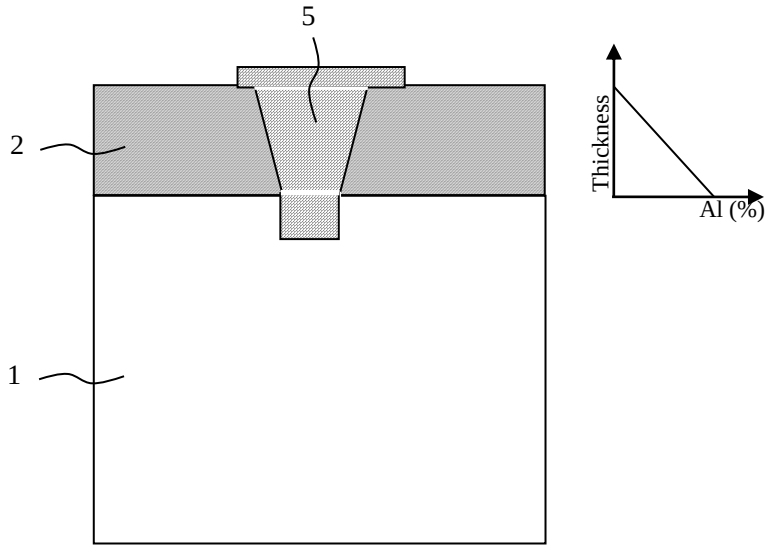


FIG. 4H

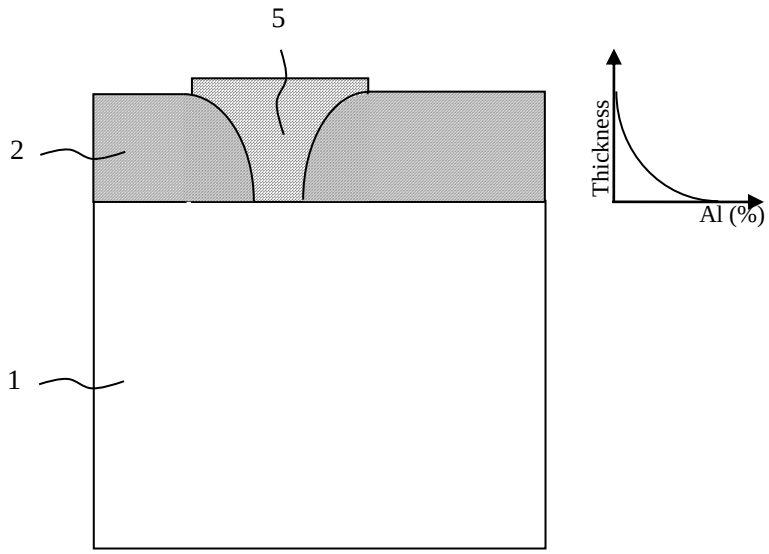


FIG. 5

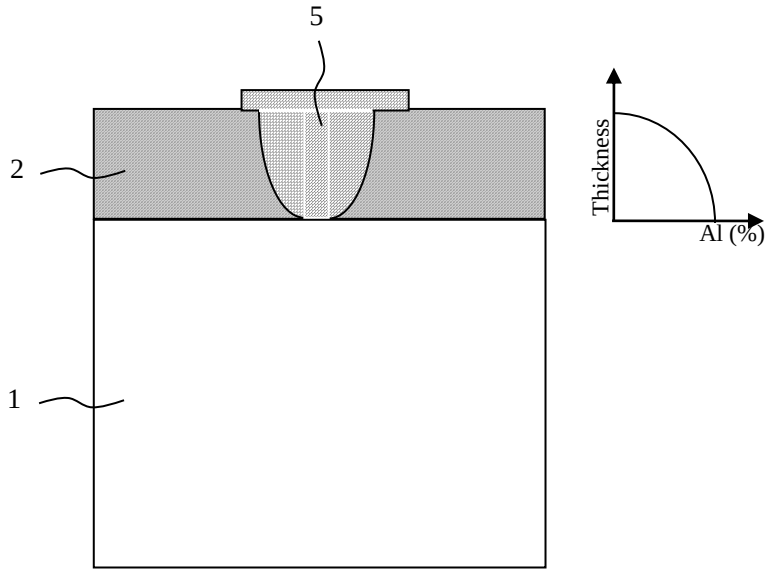


FIG. 6

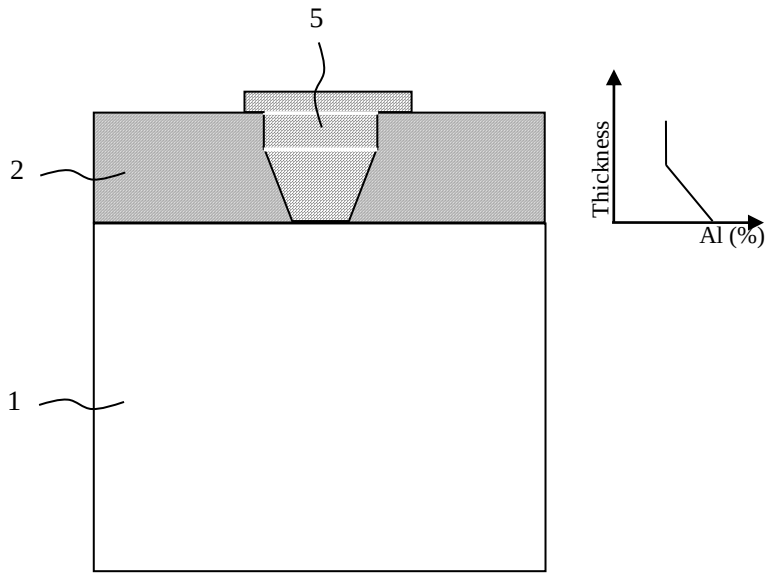


FIG. 7

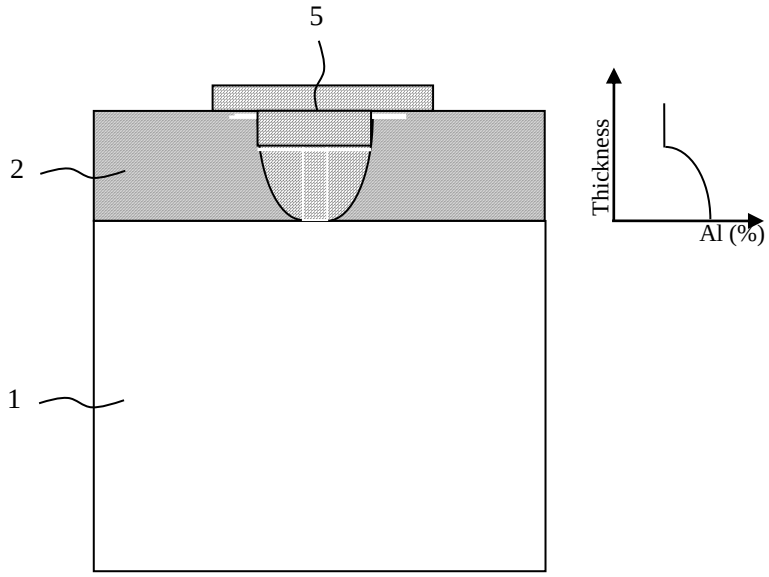


FIG. 8

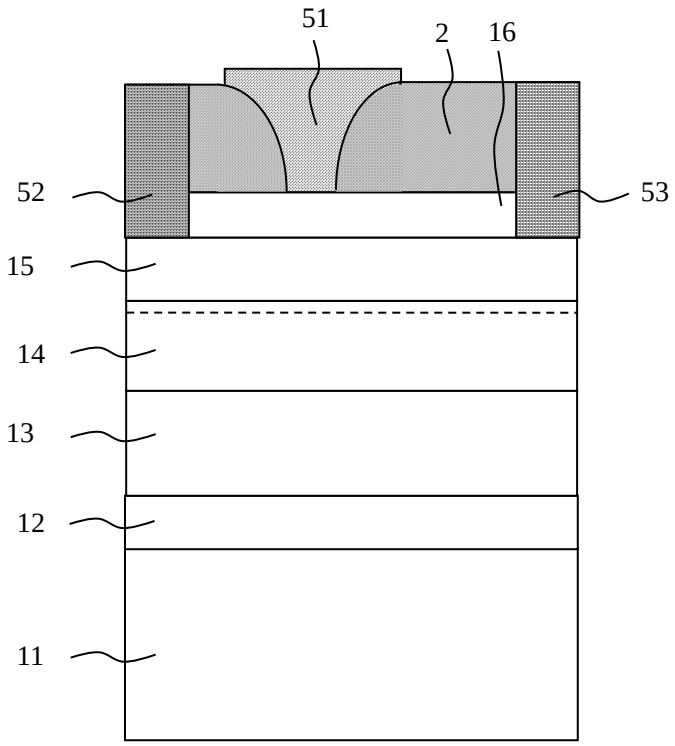


FIG. 9

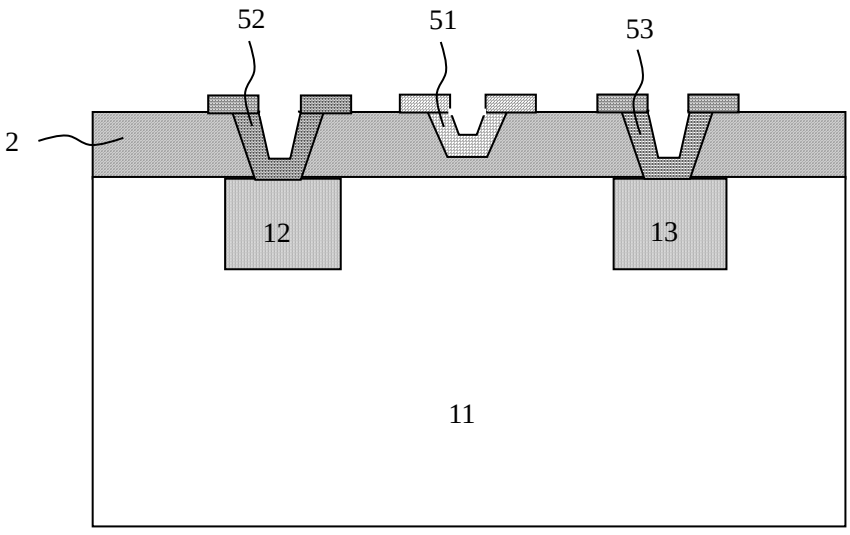


FIG. 10

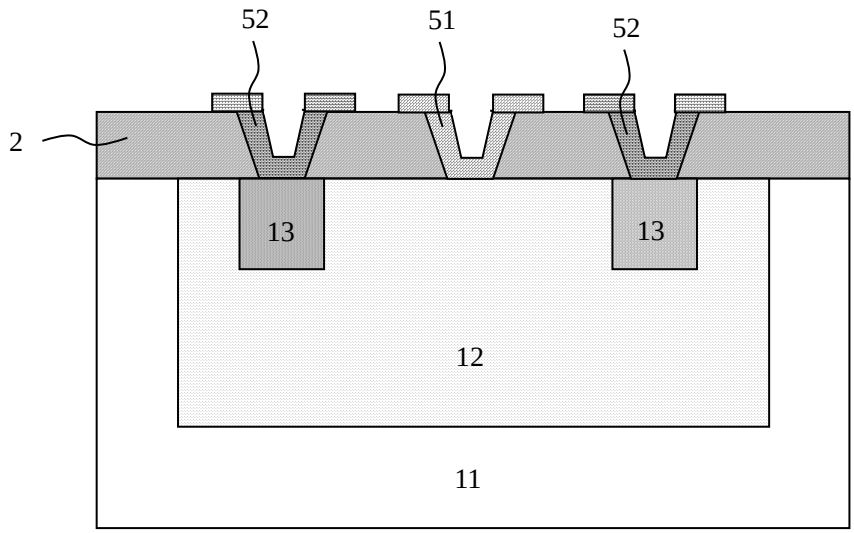


FIG. 11

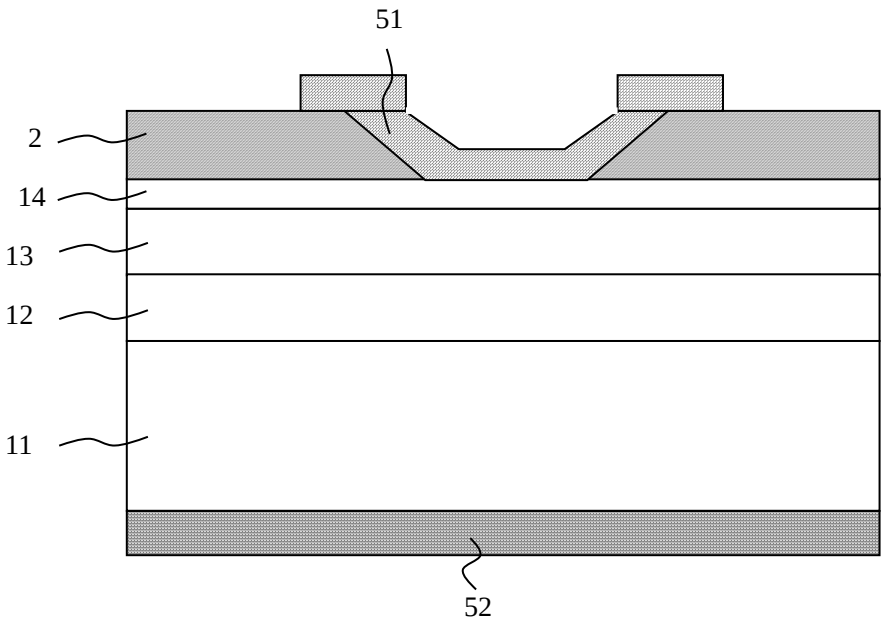


FIG. 12