

FIG. 1

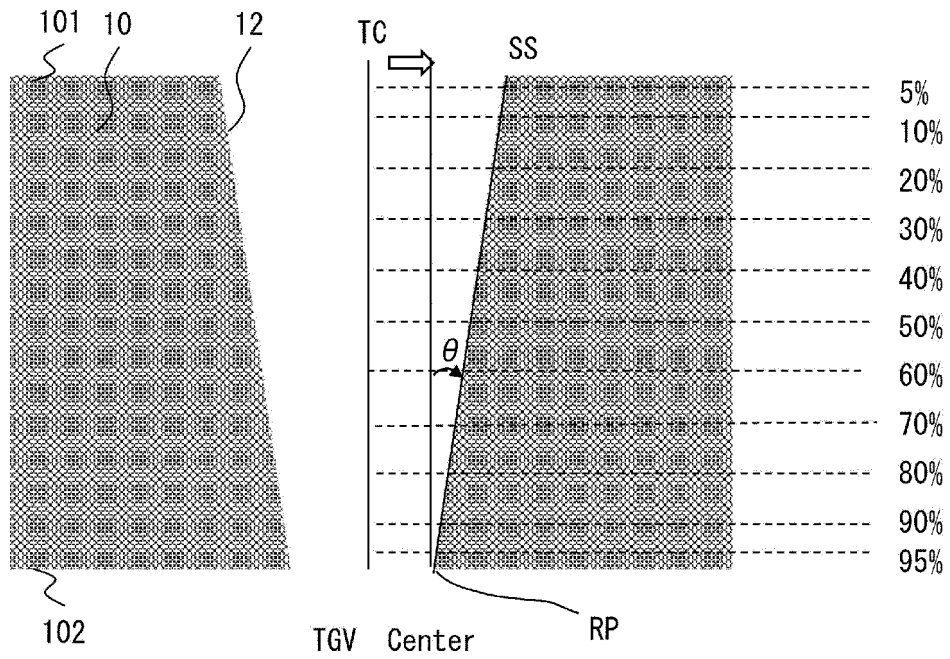
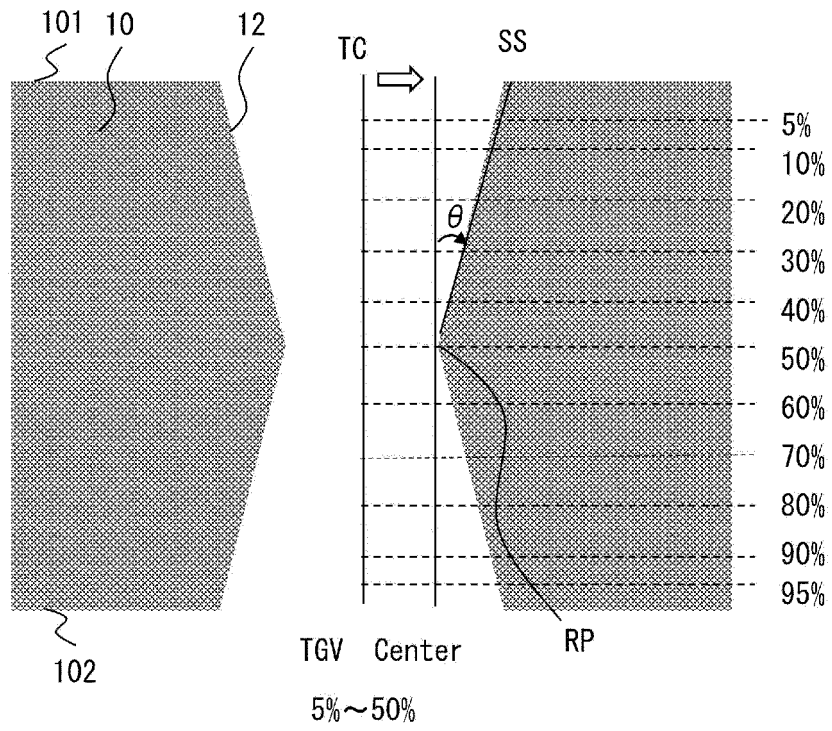


FIG. 2

(a)



(b)

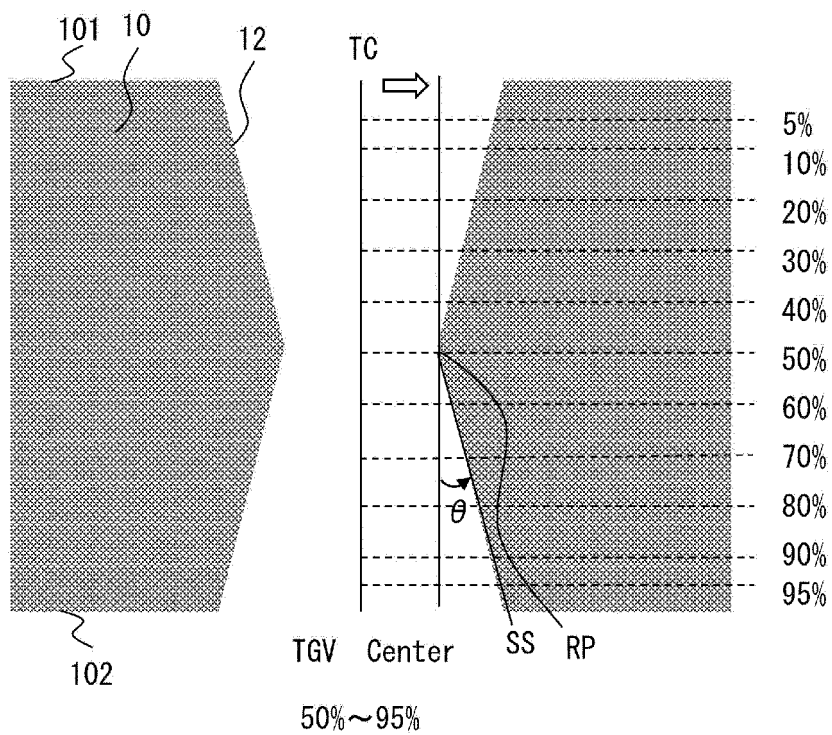
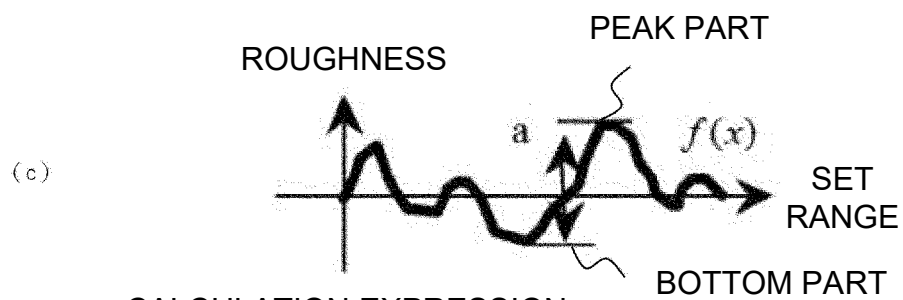
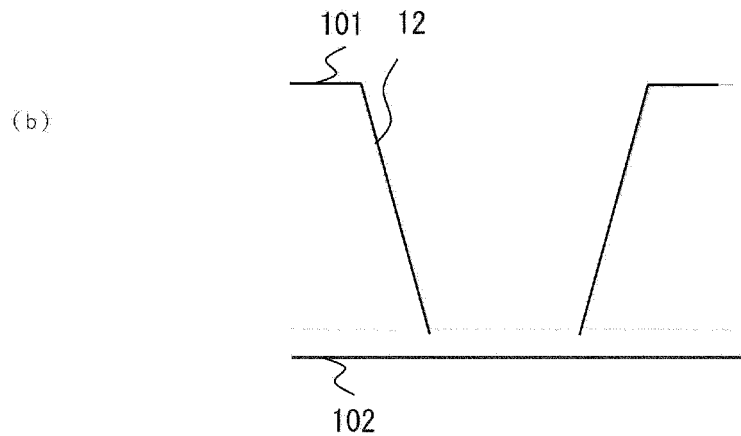
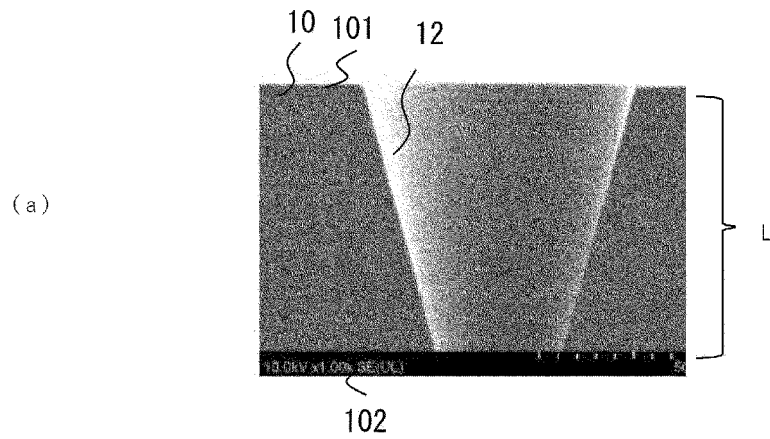


FIG. 3



<CALCULATION EXPRESSION>

MEAN ROUGHNESS (MEAN DISPERSION ROUGHNESS)

$$R_a = \frac{1}{L} \int_0^L |f(x)|^{(2)} dx \quad \dots \text{EXPRESSION (1)}$$

L: LENGTH OF SET REGION

ROUGHNESS WIDTH: a

FIG. 4

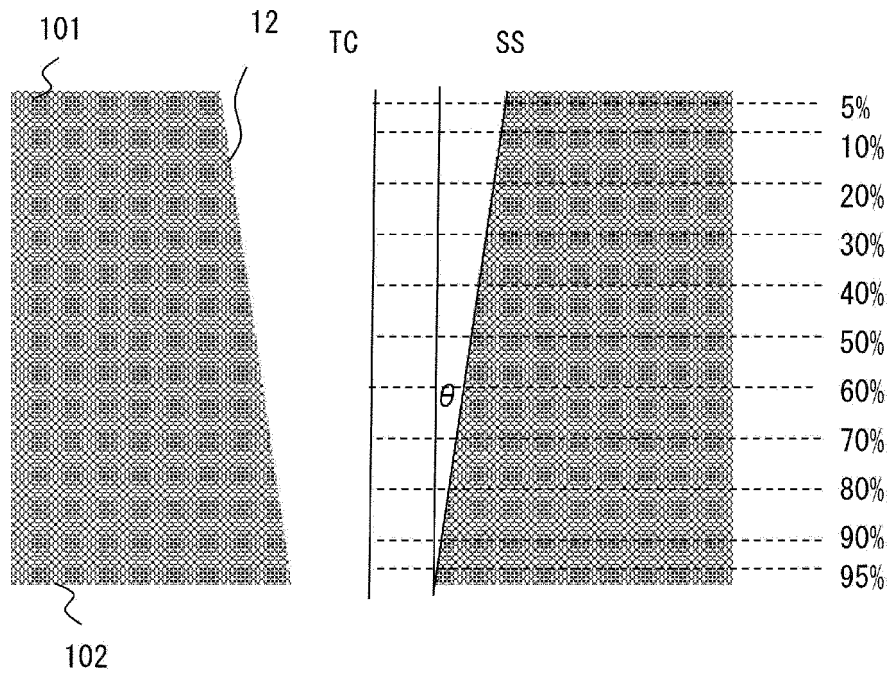
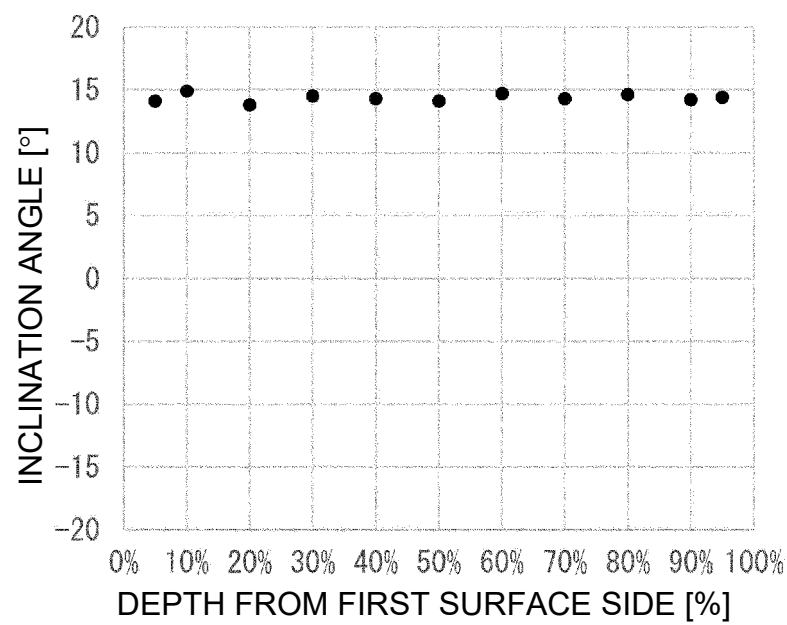


FIG. 5



5/60

FIG. 6

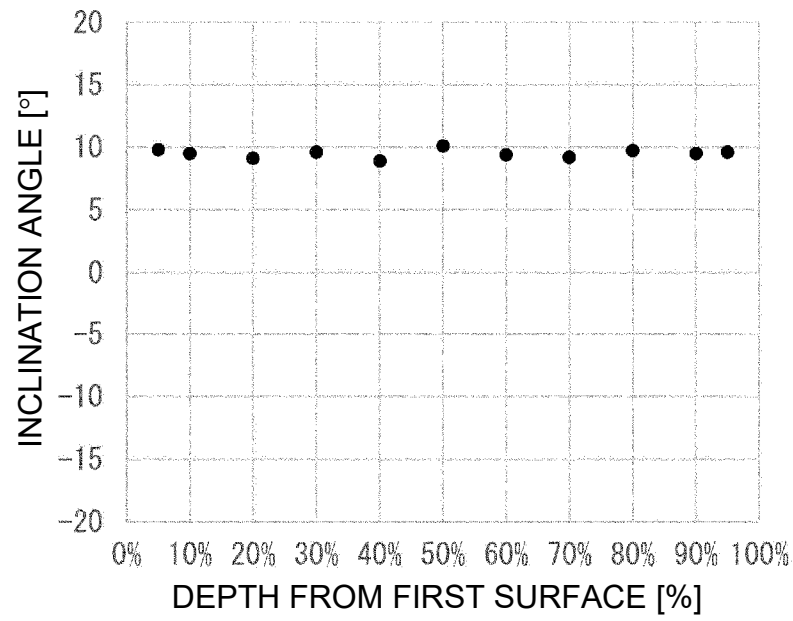


FIG. 7

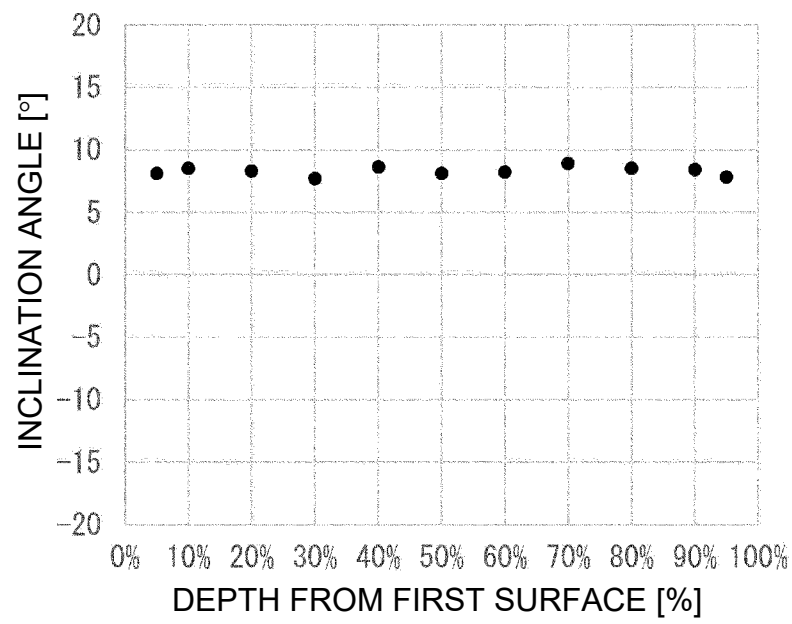


FIG. 8

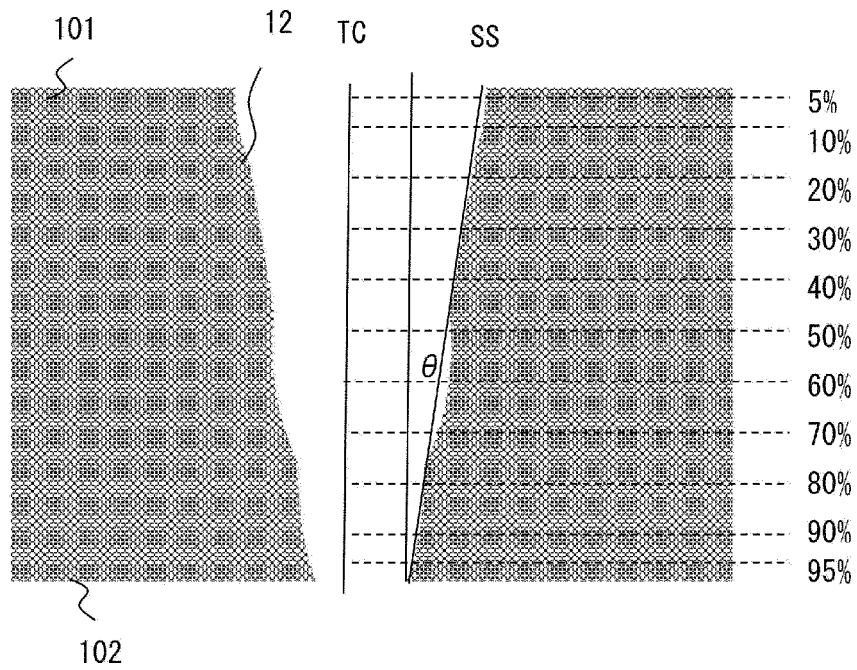


FIG. 9

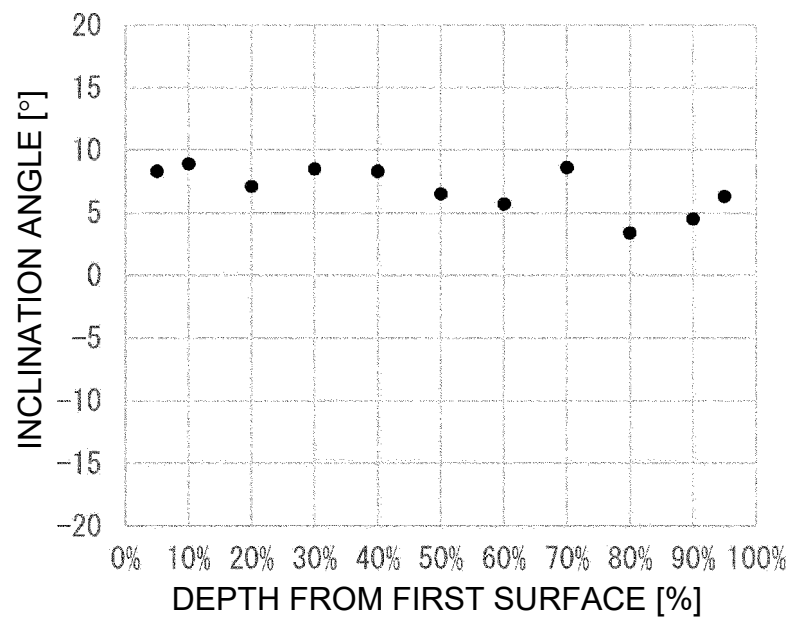


FIG. 10

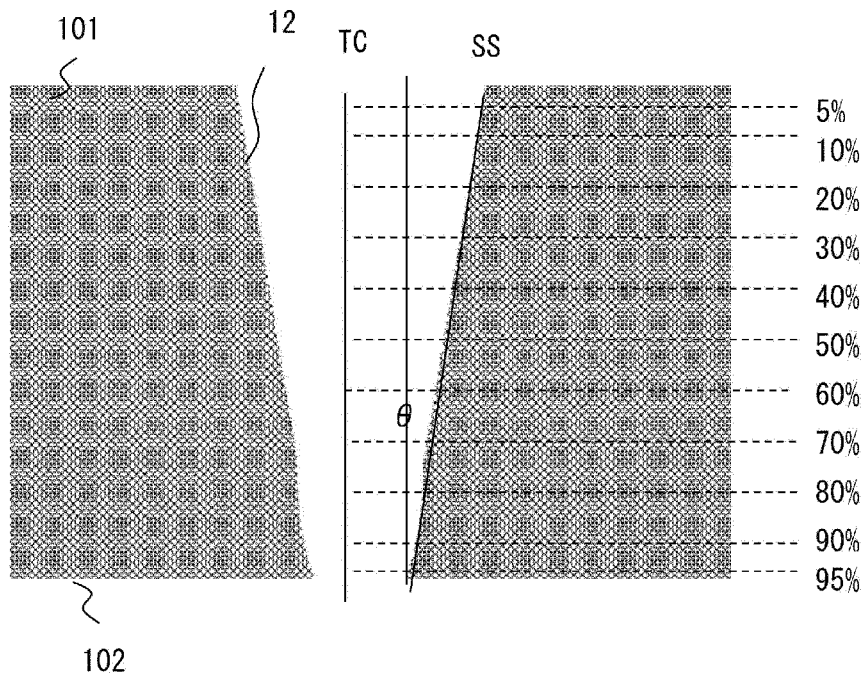


FIG. 11

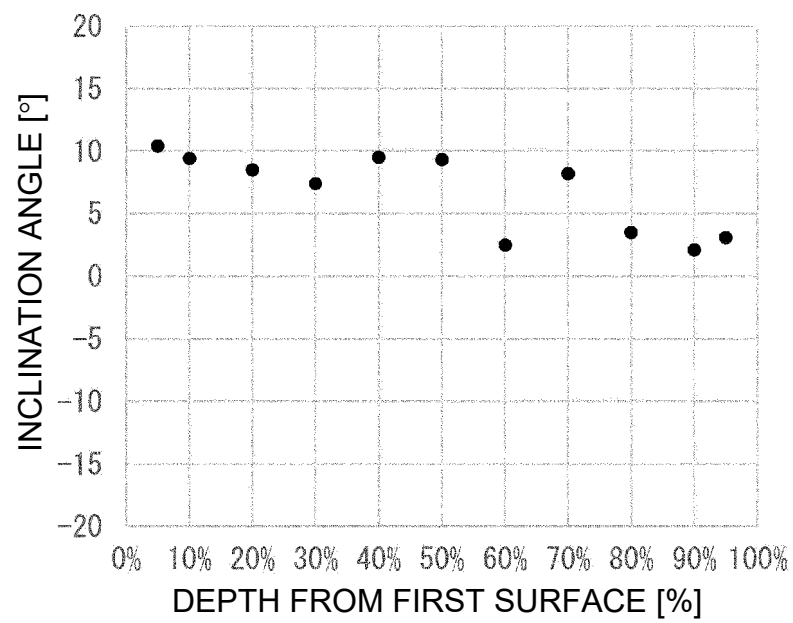


FIG. 12

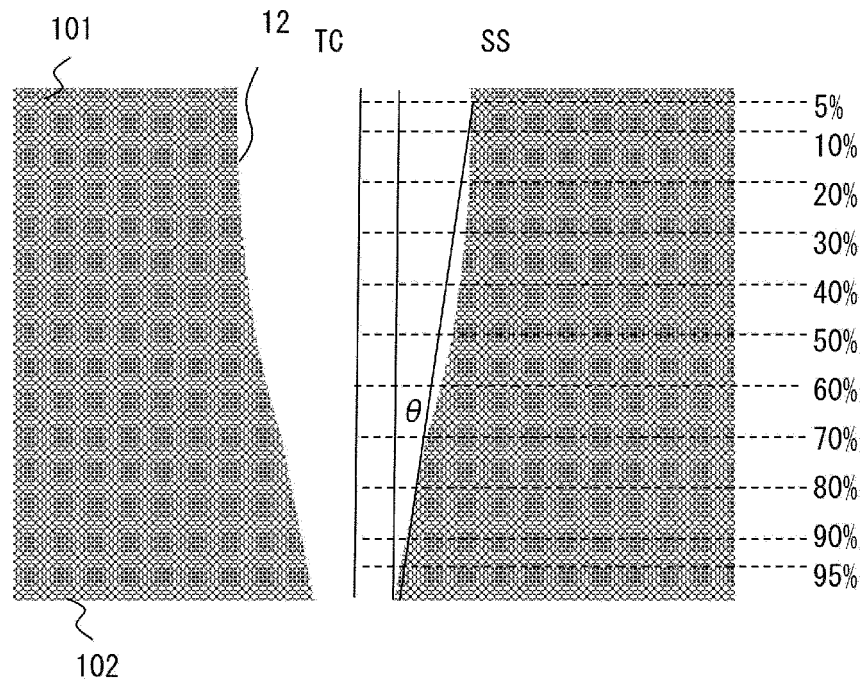
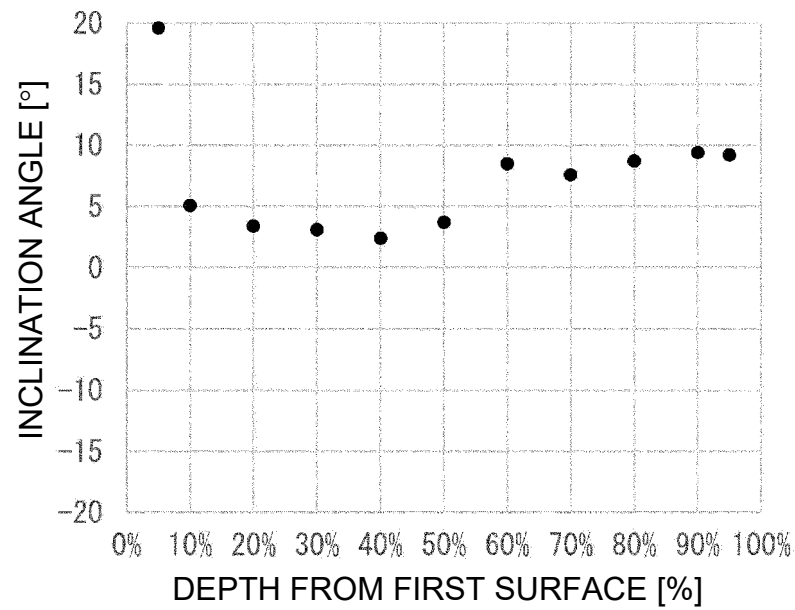


FIG. 13



9/60

FIG. 14

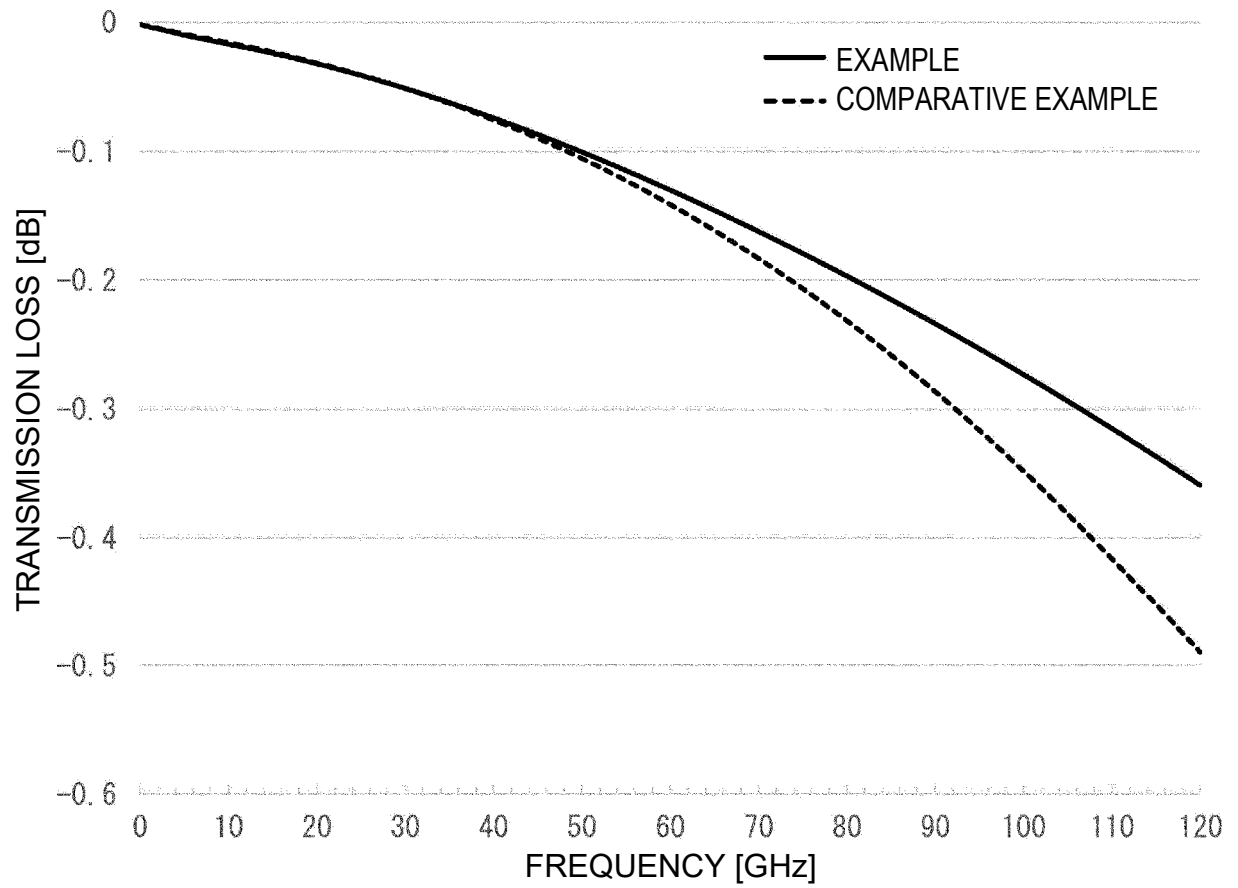
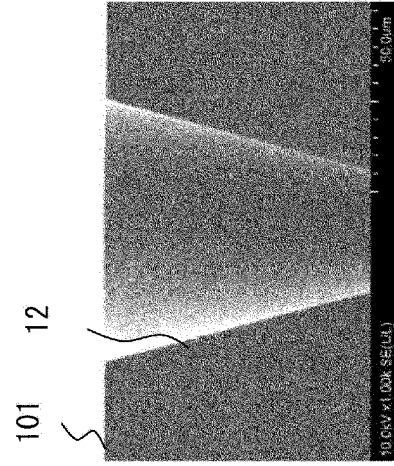
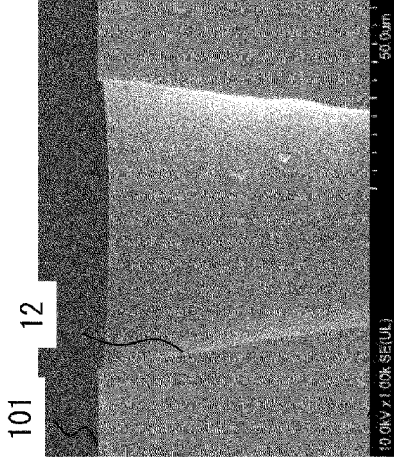


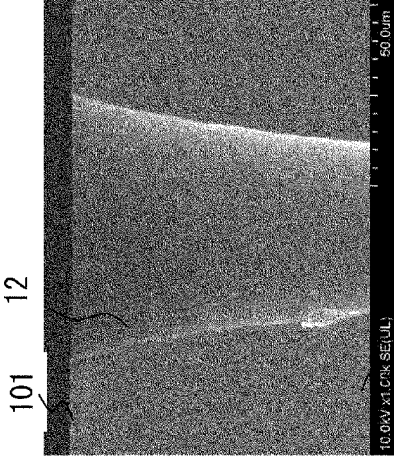
FIG. 15A



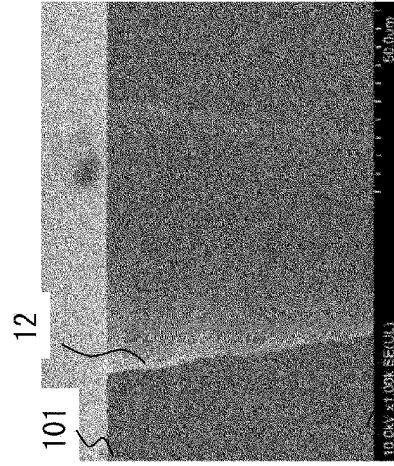
EXAMPLE 1



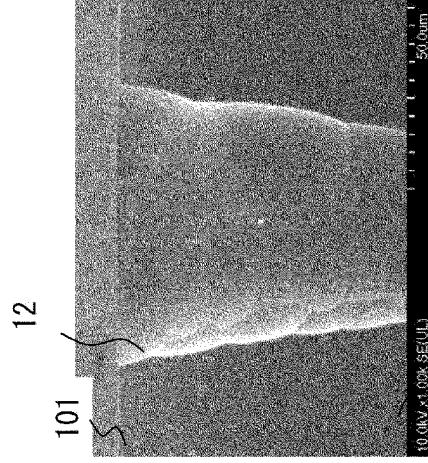
EXAMPLE 2



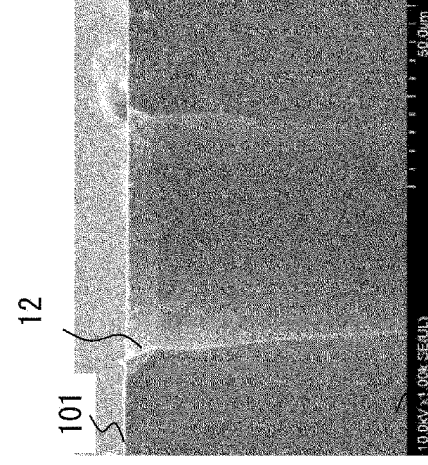
EXAMPLE 3



COMPARATIVE EXAMPLE 1

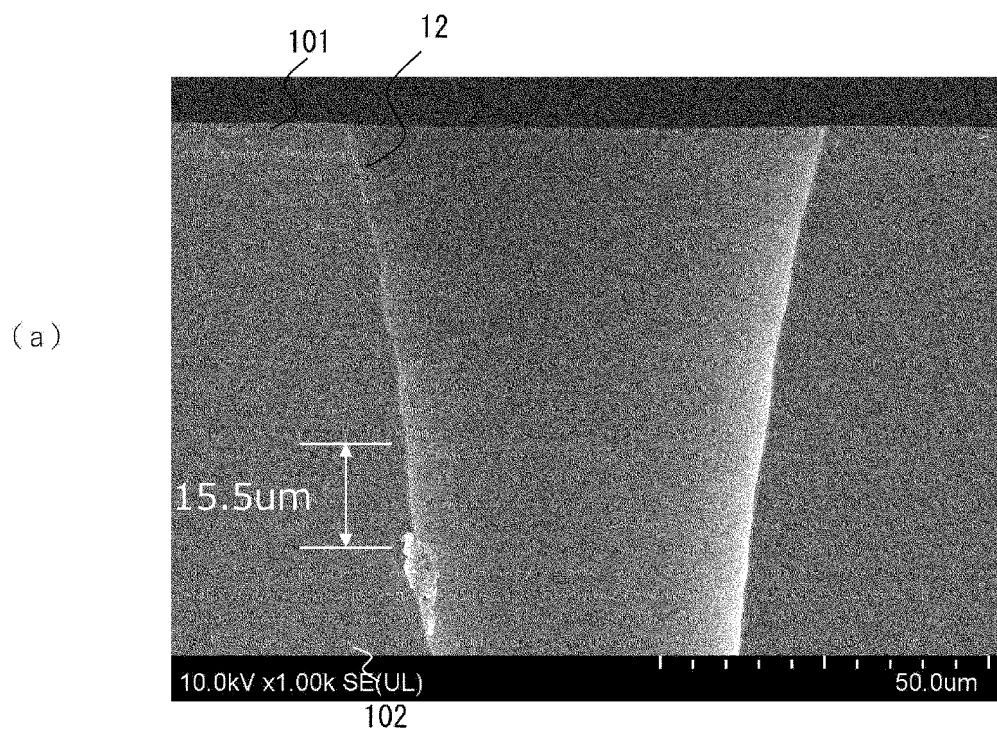


COMPARATIVE EXAMPLE 2

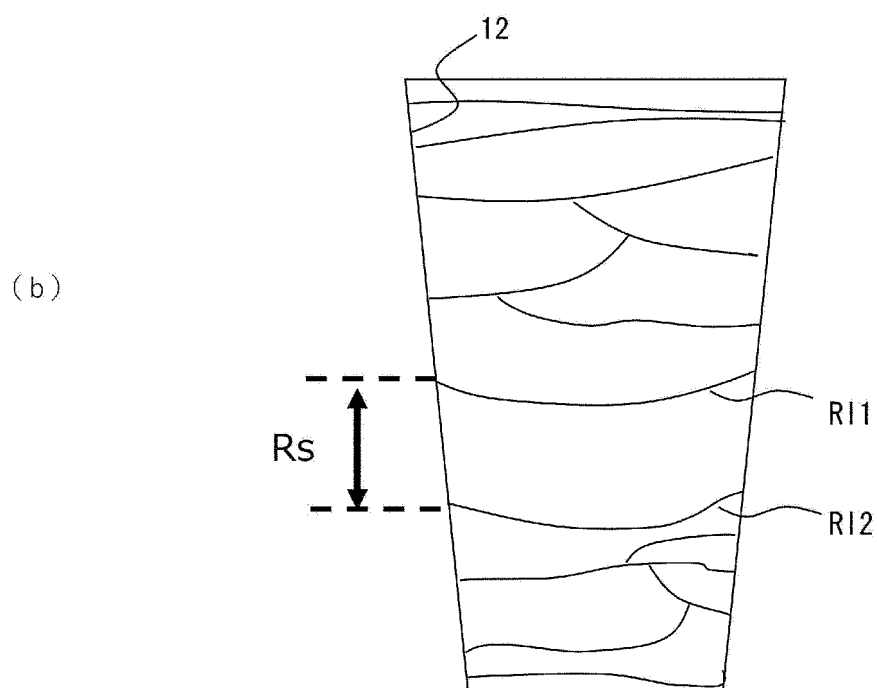


COMPARATIVE EXAMPLE 3

FIG. 15B



EXAMPLE 3



12/60

FIG. 16

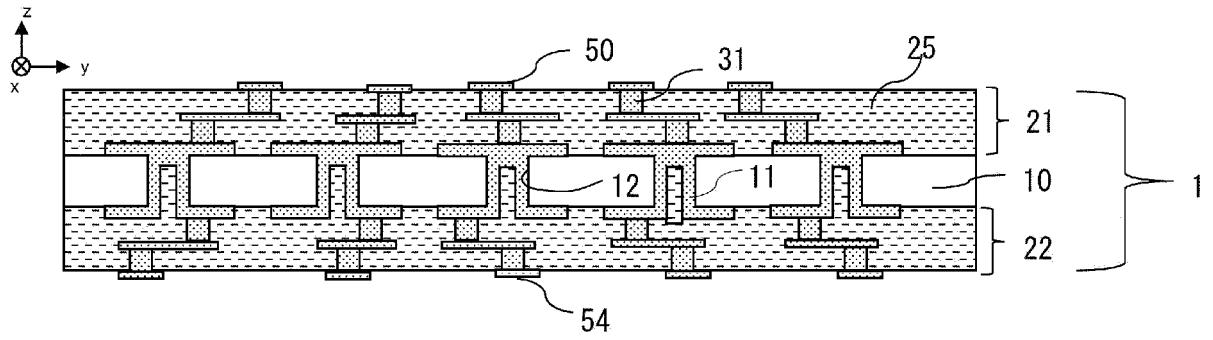


FIG. 17

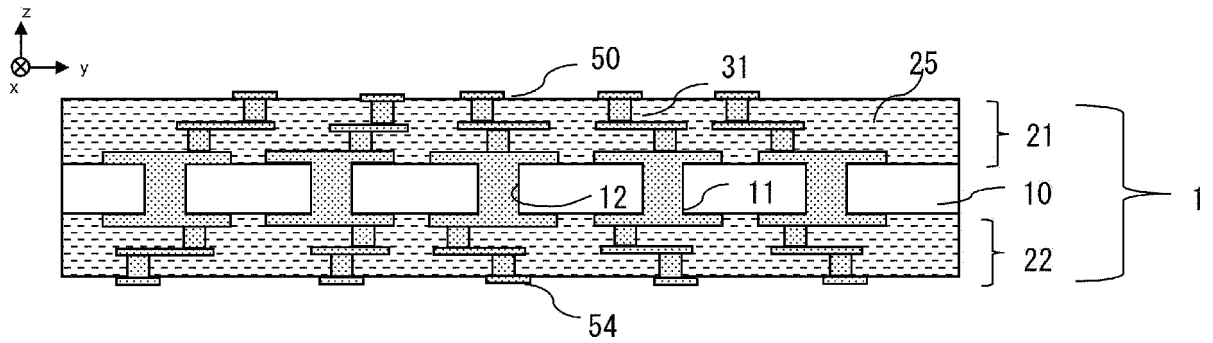


FIG. 18

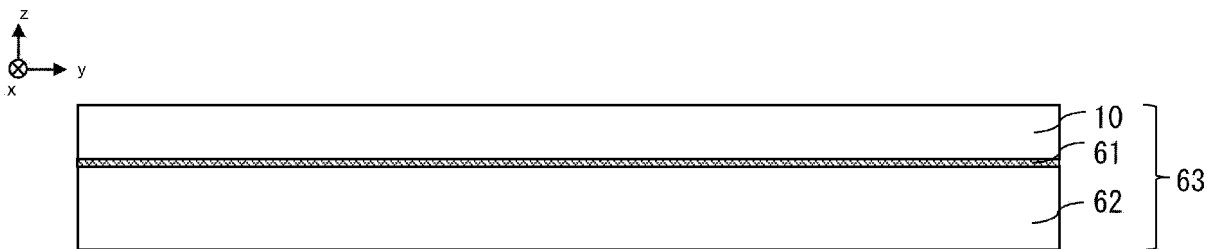
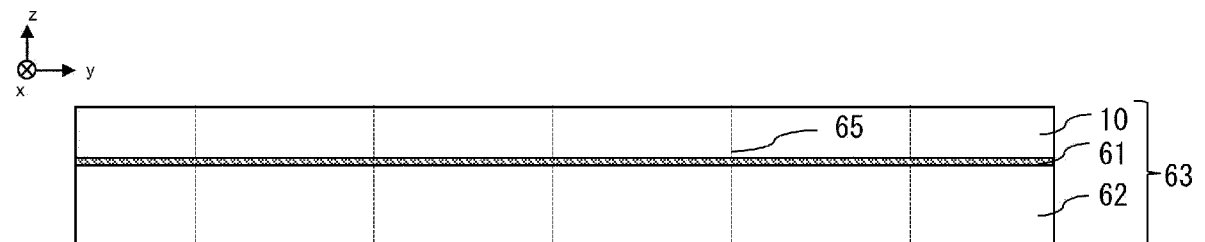


FIG. 19



13/60
FIG. 20

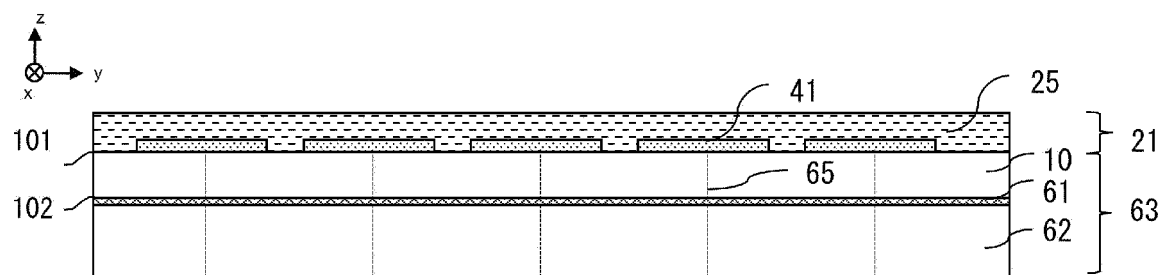


FIG. 21

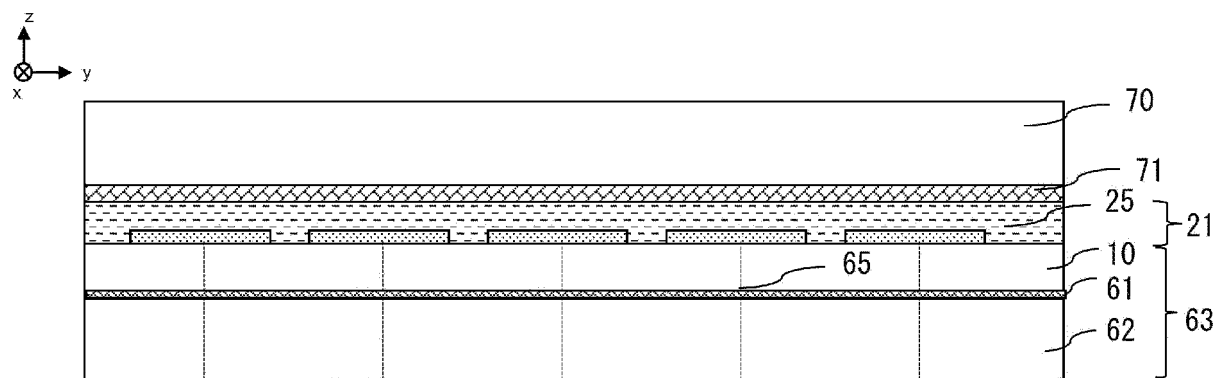


FIG. 22

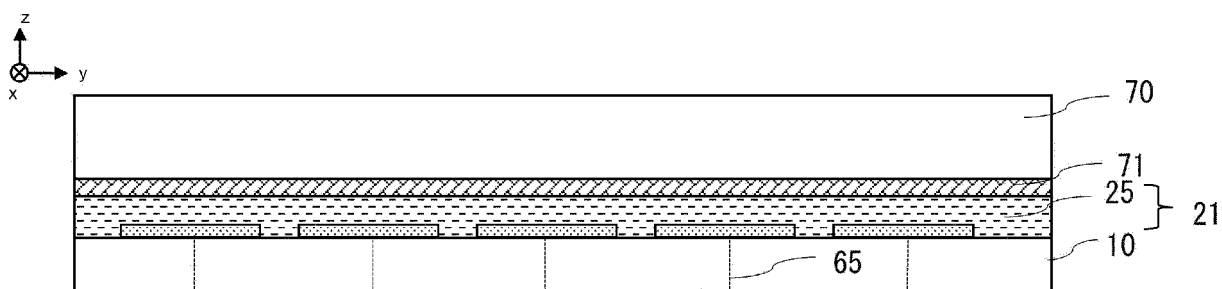


FIG. 23

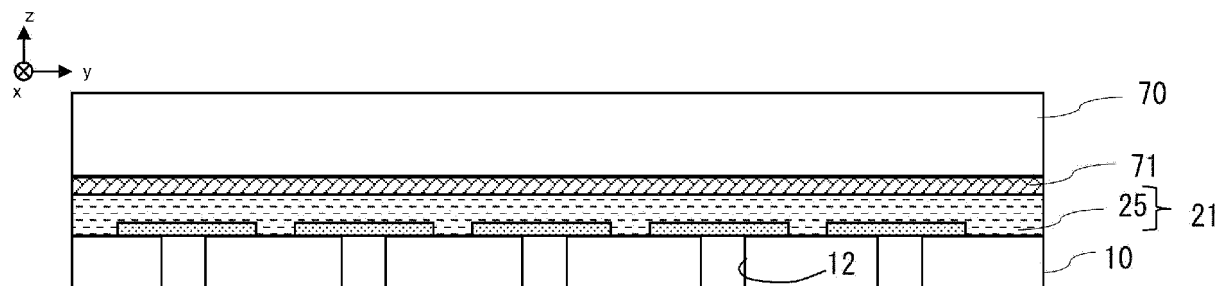


FIG. 24

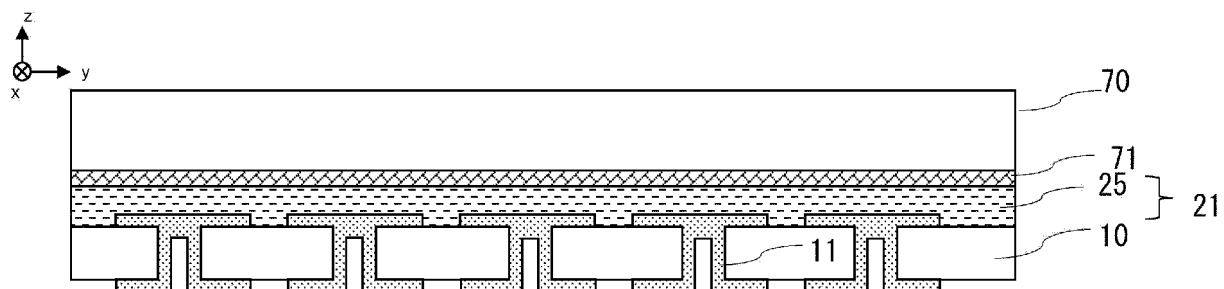


FIG. 25

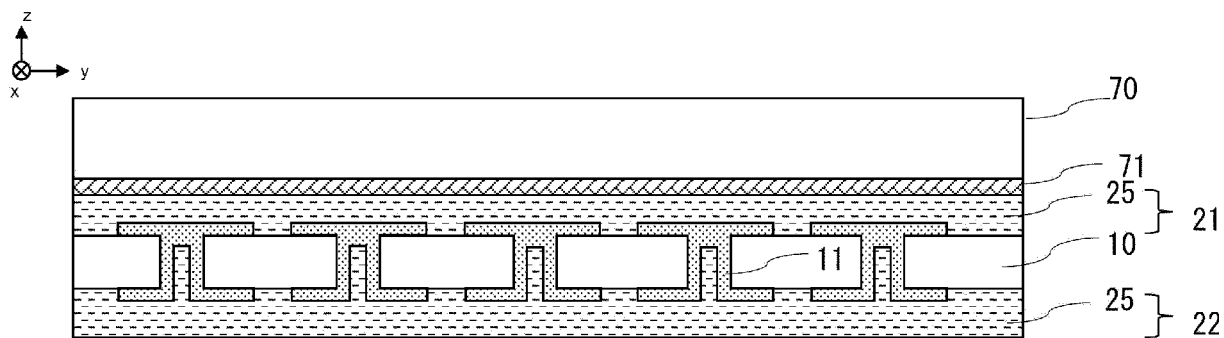


FIG. 26

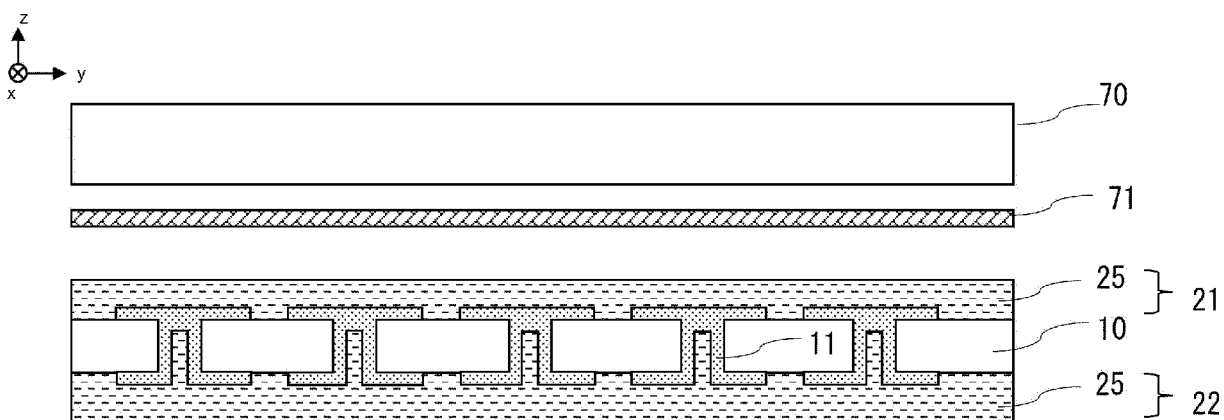


FIG. 27

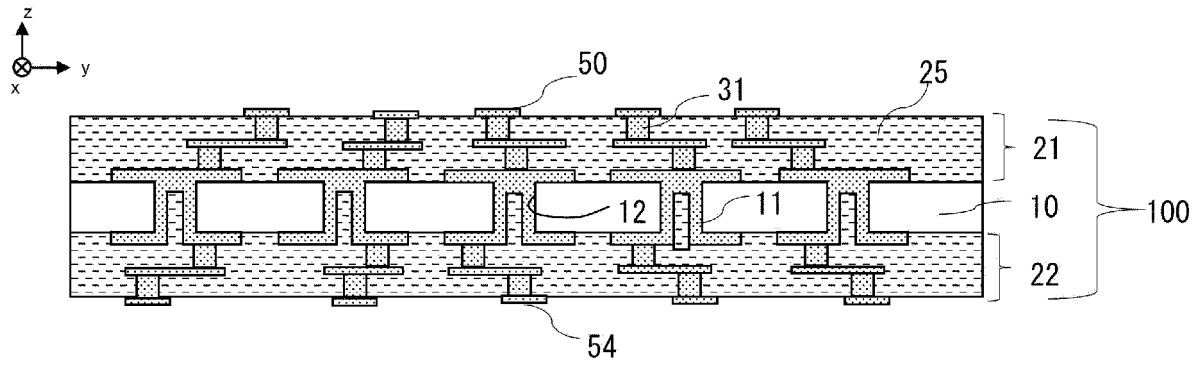


FIG. 28

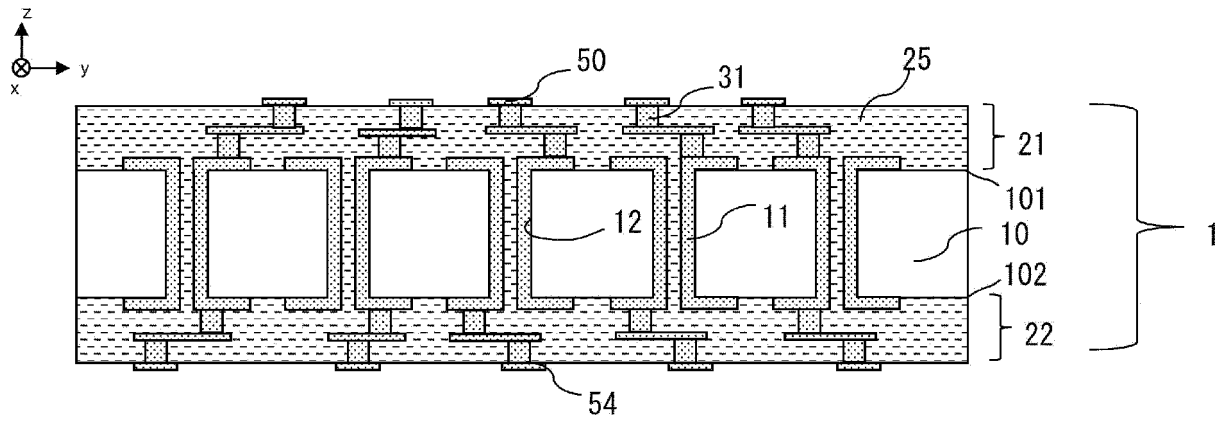


FIG. 29

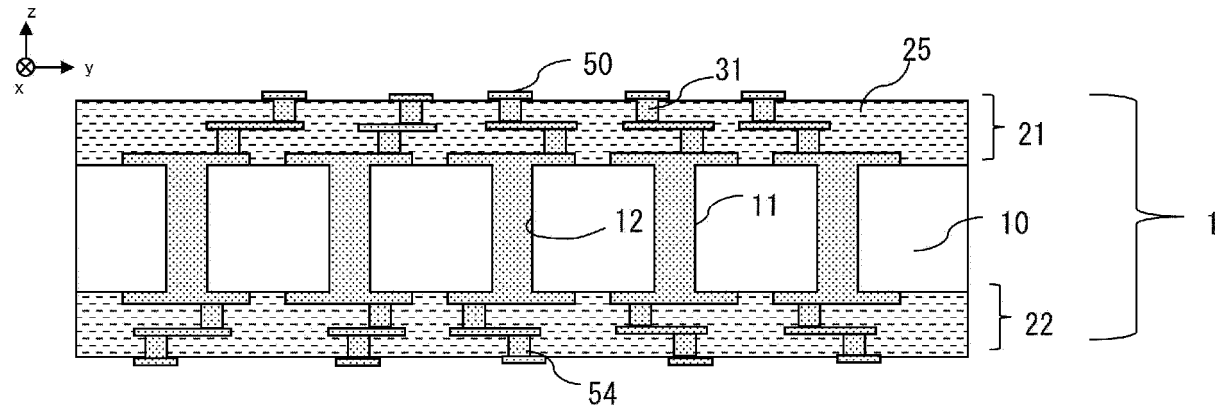


FIG. 30



FIG. 31

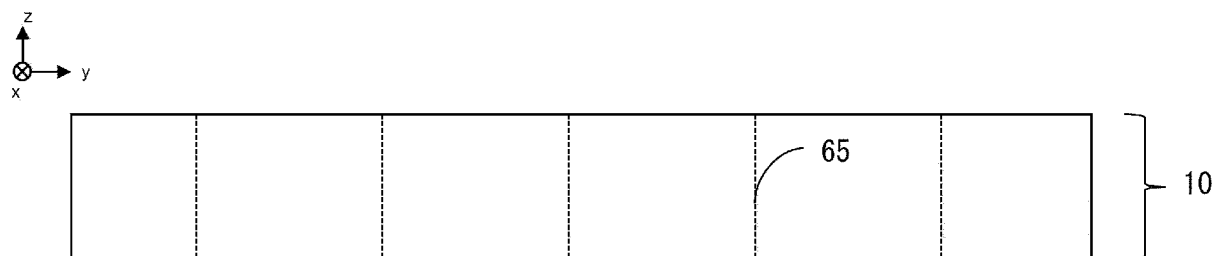


FIG. 32

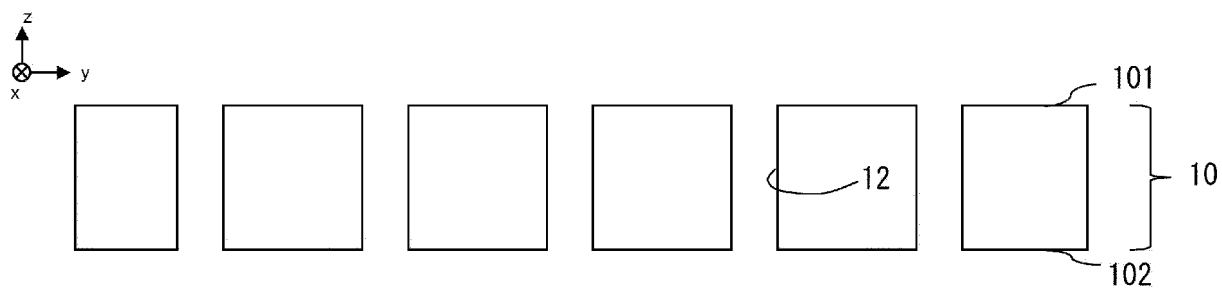


FIG. 33

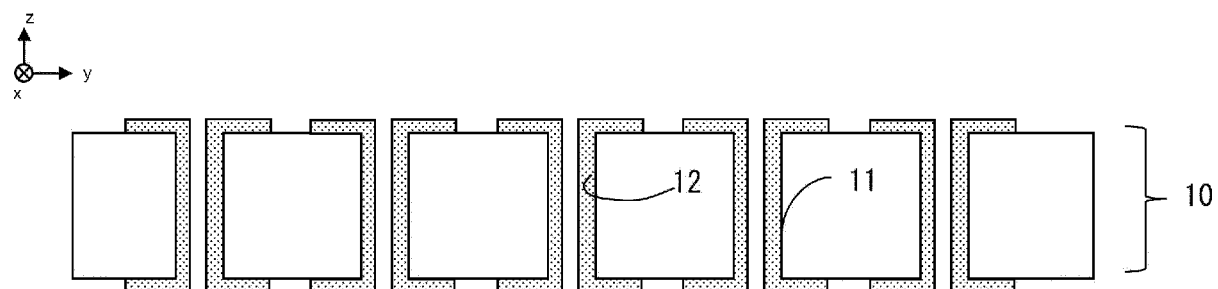


FIG. 34

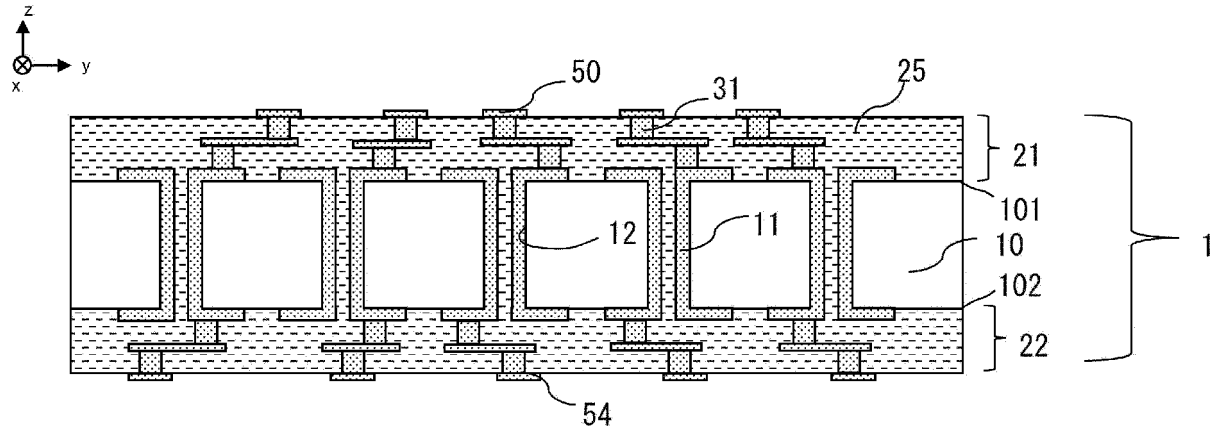
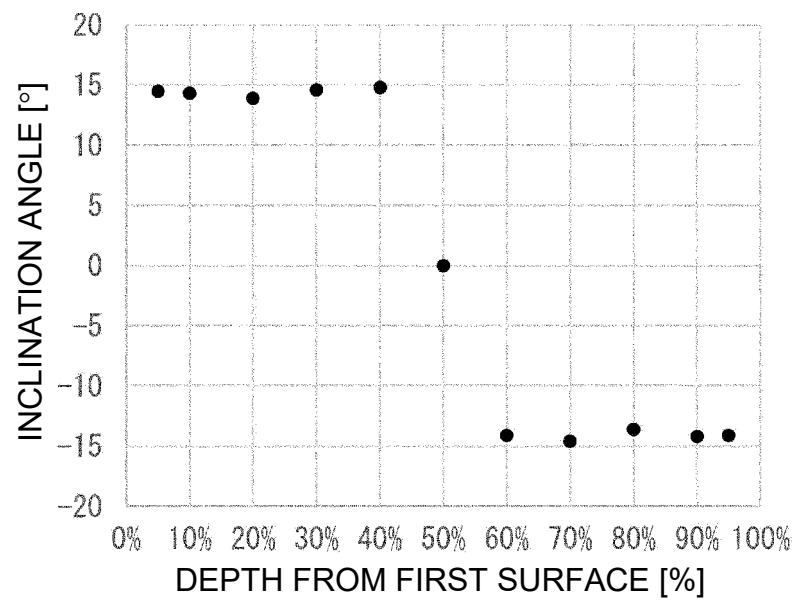


FIG. 35



18/60

FIG. 36

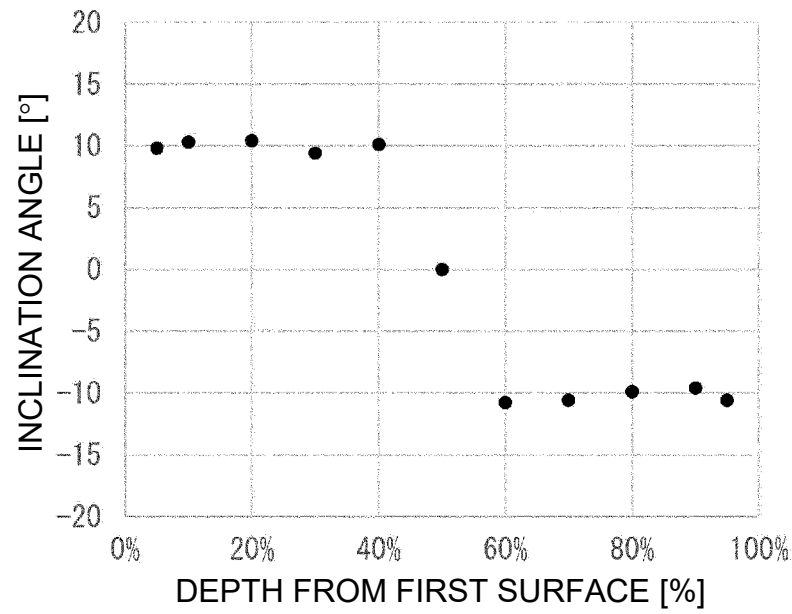


FIG. 37

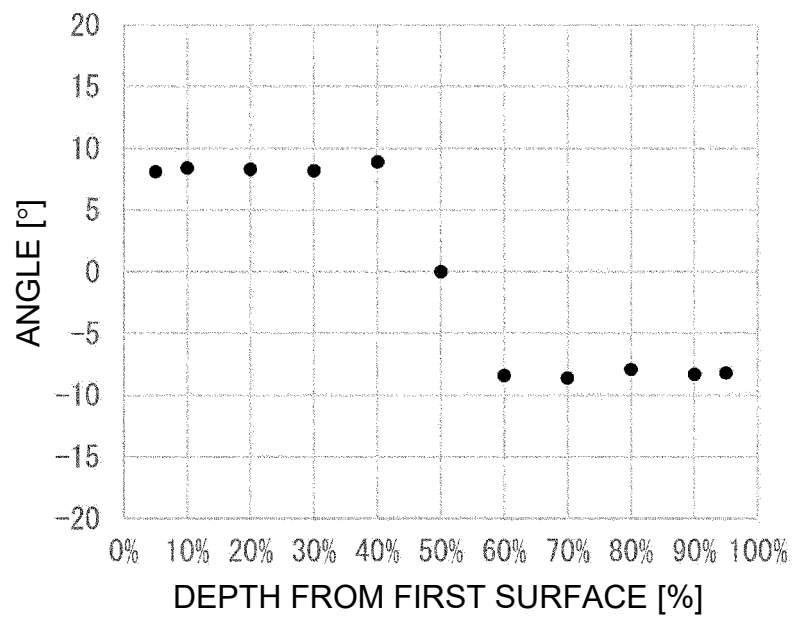


FIG. 38

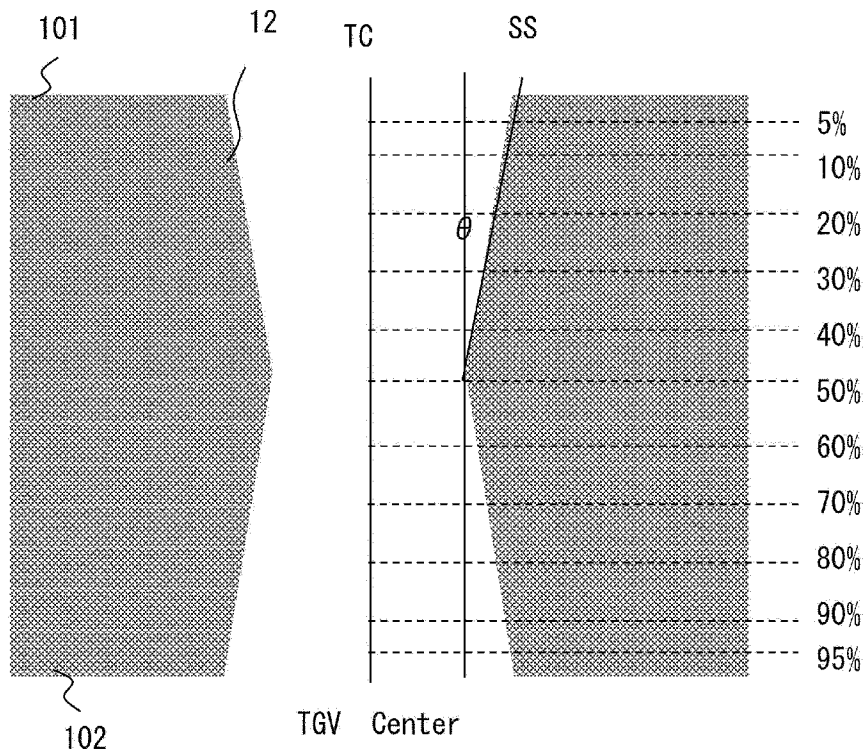


FIG. 39

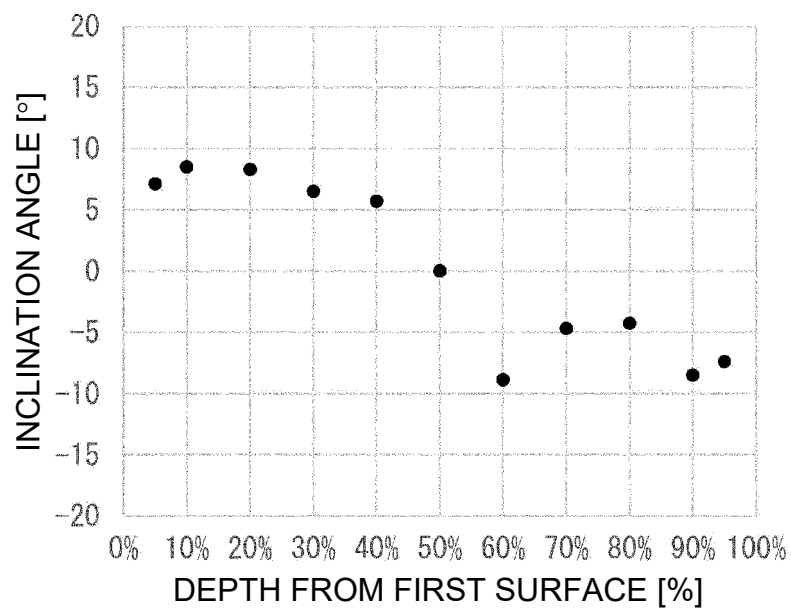


FIG. 40

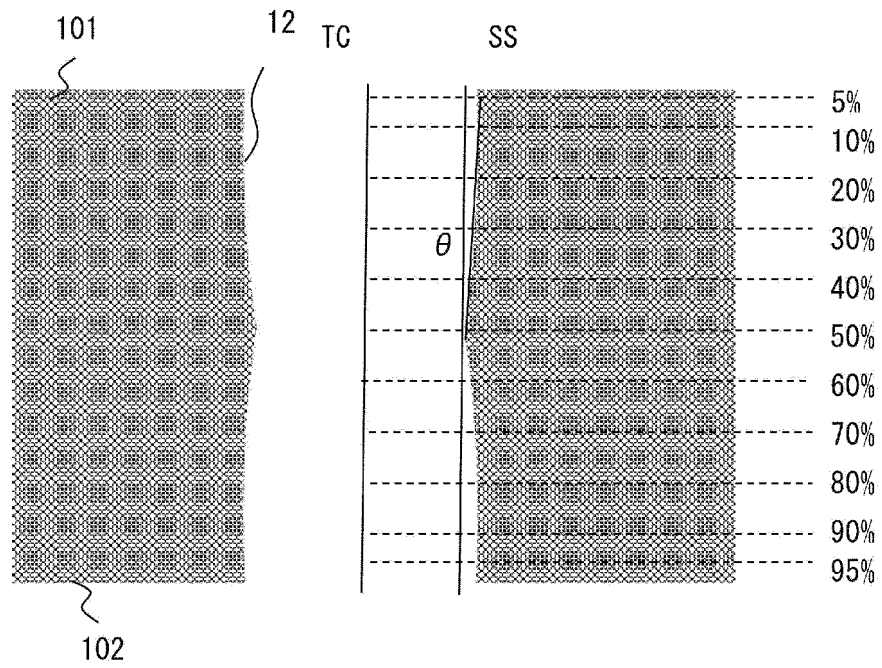


FIG. 41

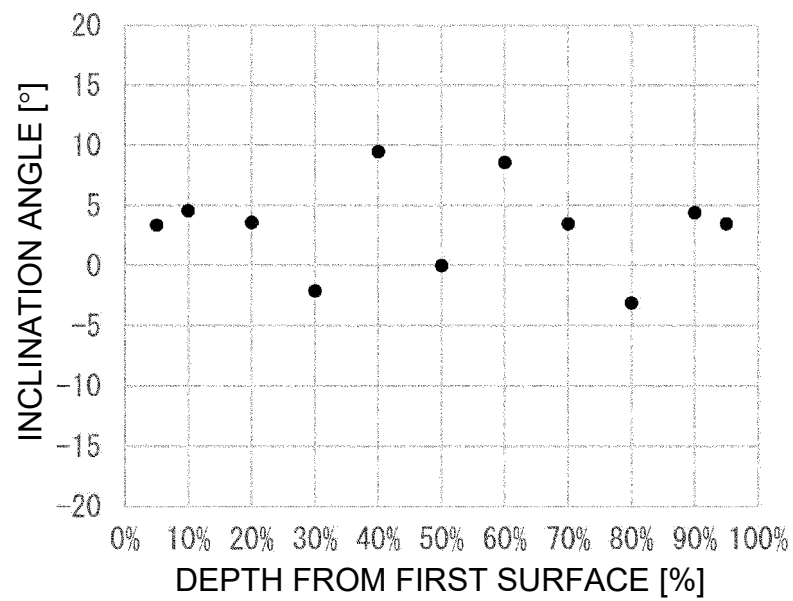


FIG. 42

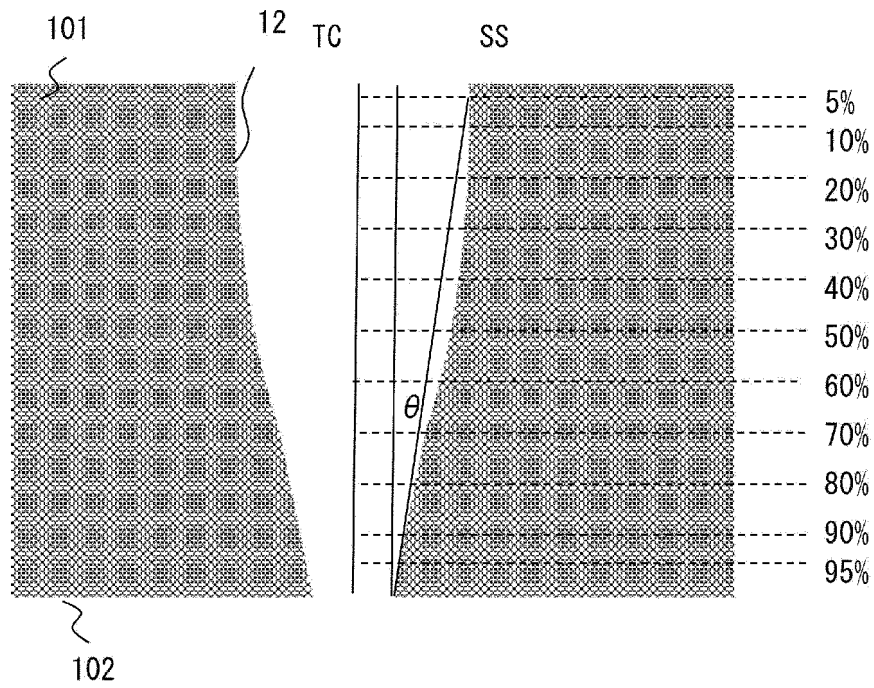


FIG. 43

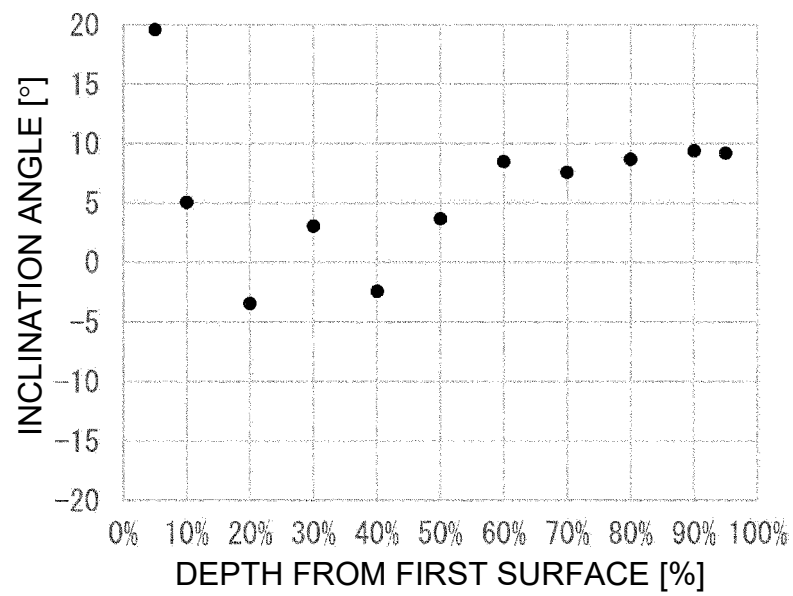


FIG. 44

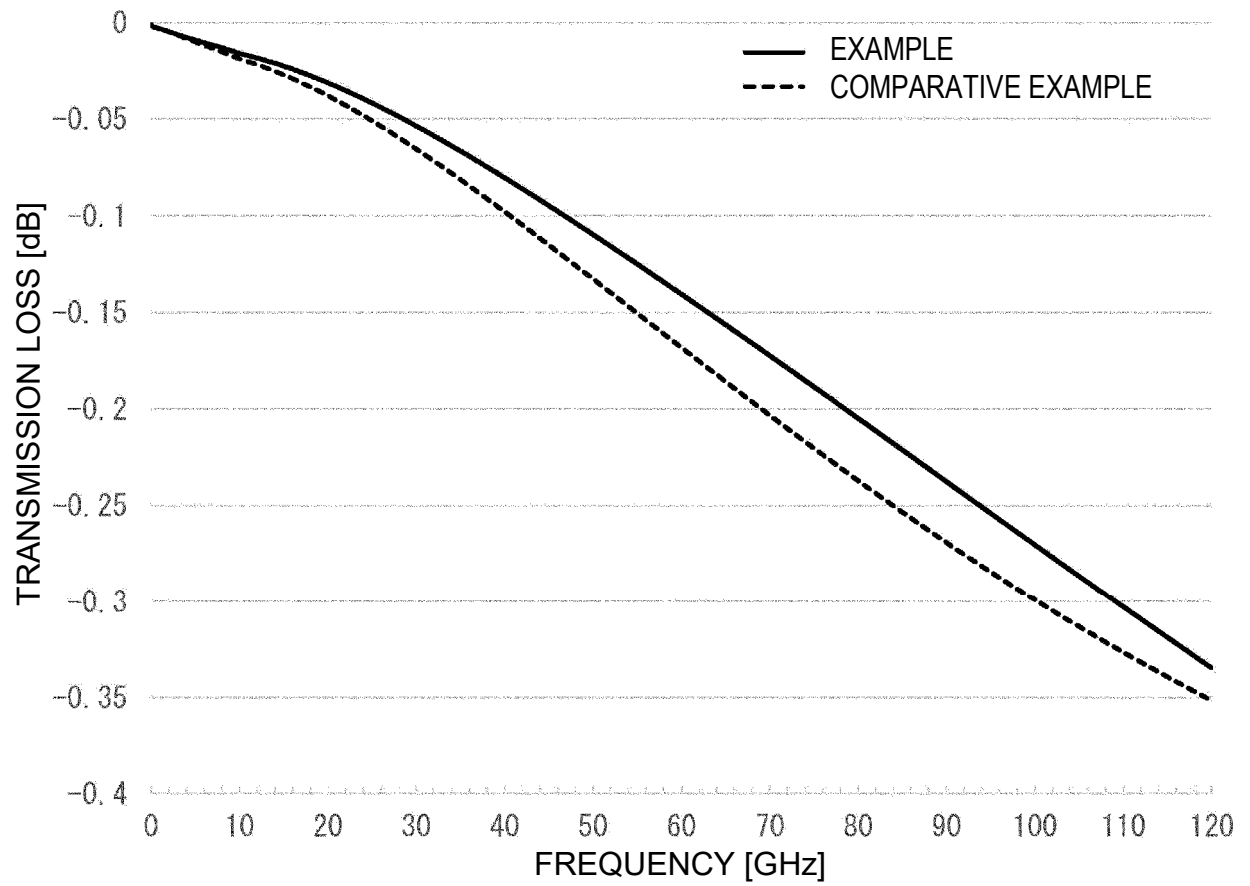


FIG. 45

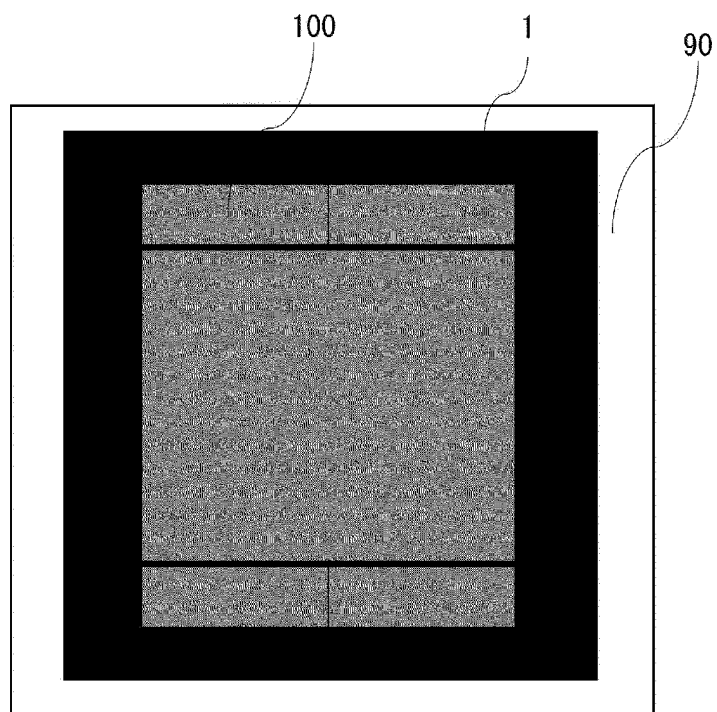


FIG. 46

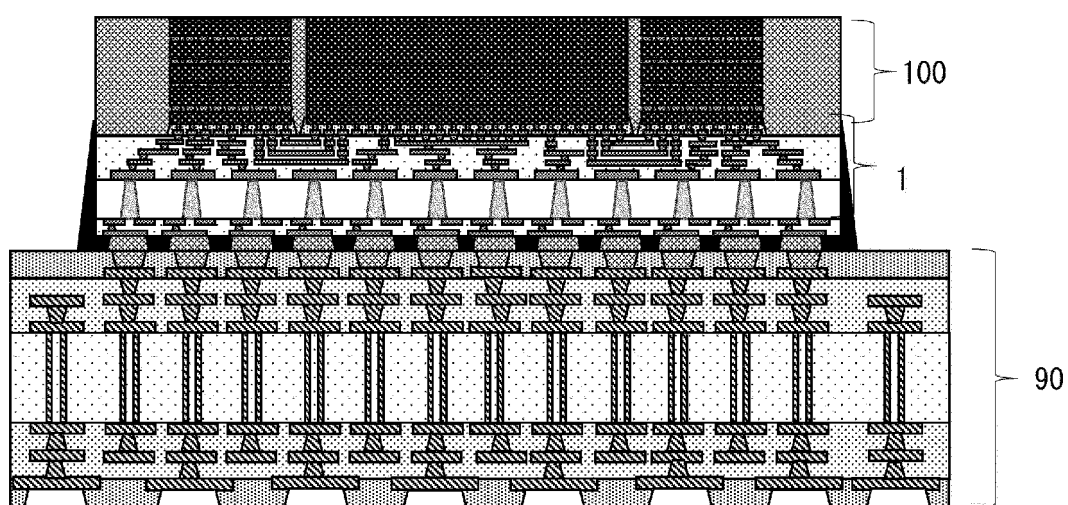


FIG. 47

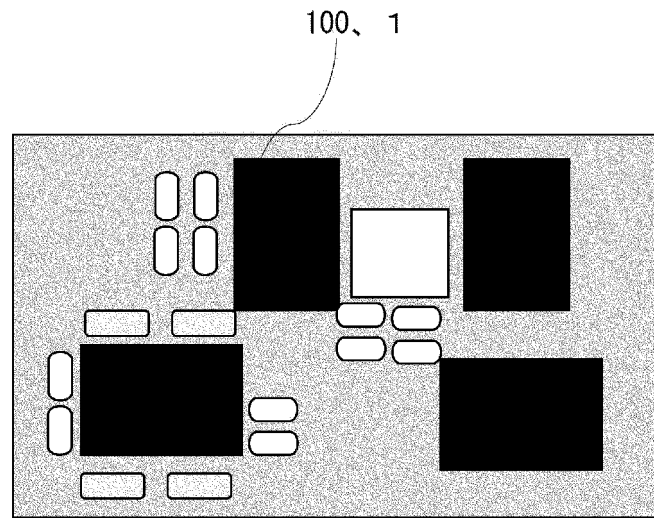


FIG. 48

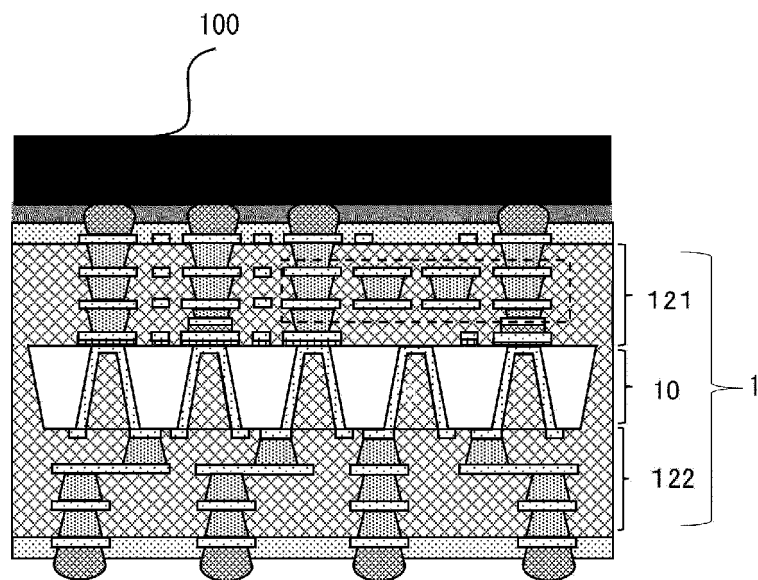


FIG. 49

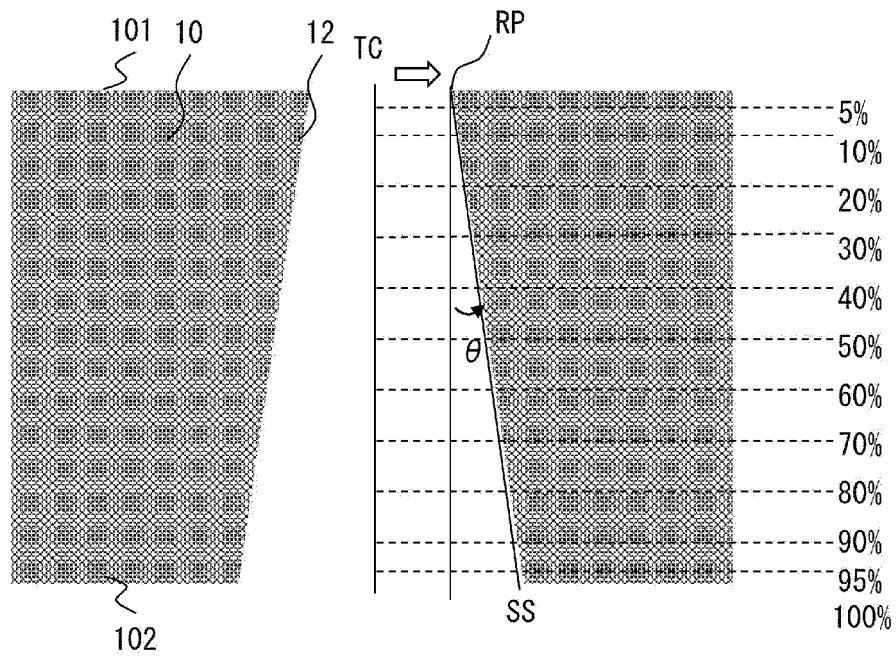
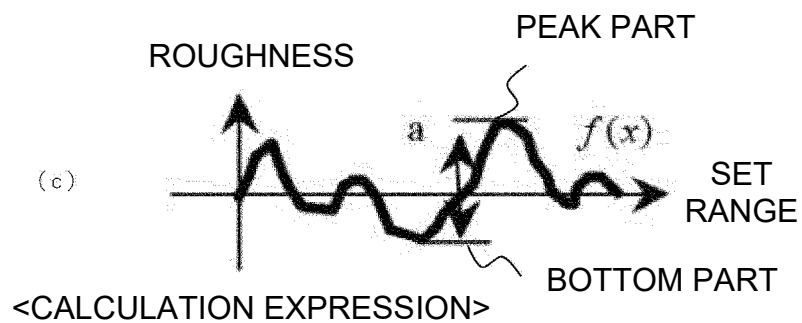
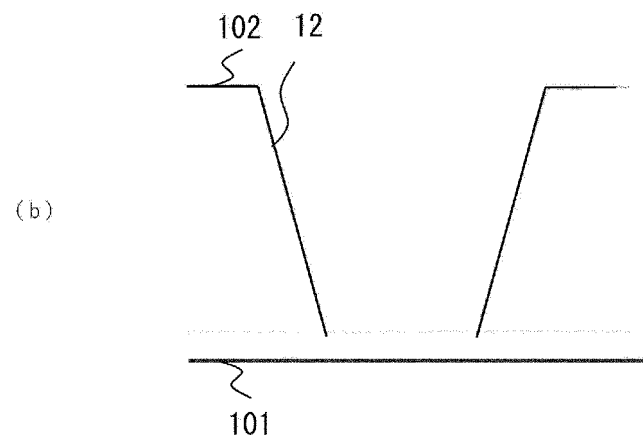
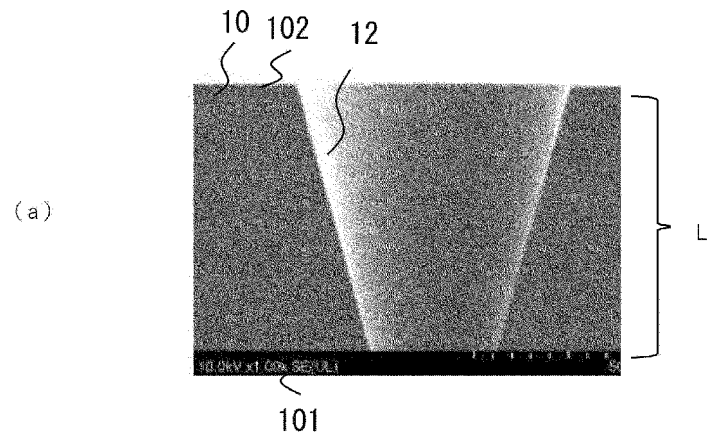


FIG. 50



MEAN ROUGHNESS (MEAN DISPERSION ROUGHNESS)

$$R_a = \frac{1}{L} \int_0^L |f(x)| dx \quad \dots \text{EXPRESSION (1)}$$

L: LENGTH OF SET REGION

ROUGHNESS WIDTH: a

FIG. 51

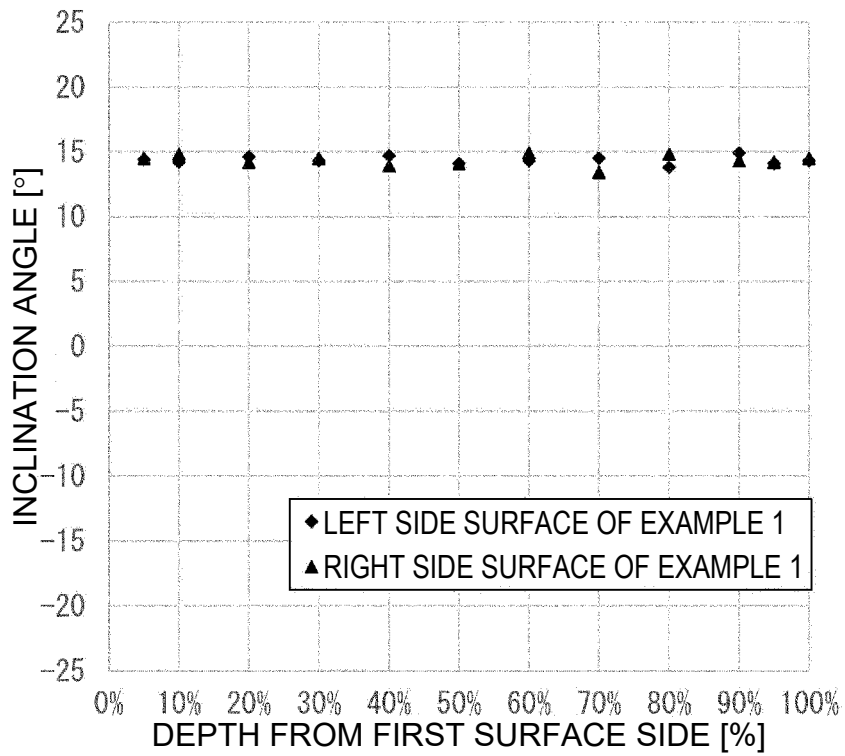


FIG. 52

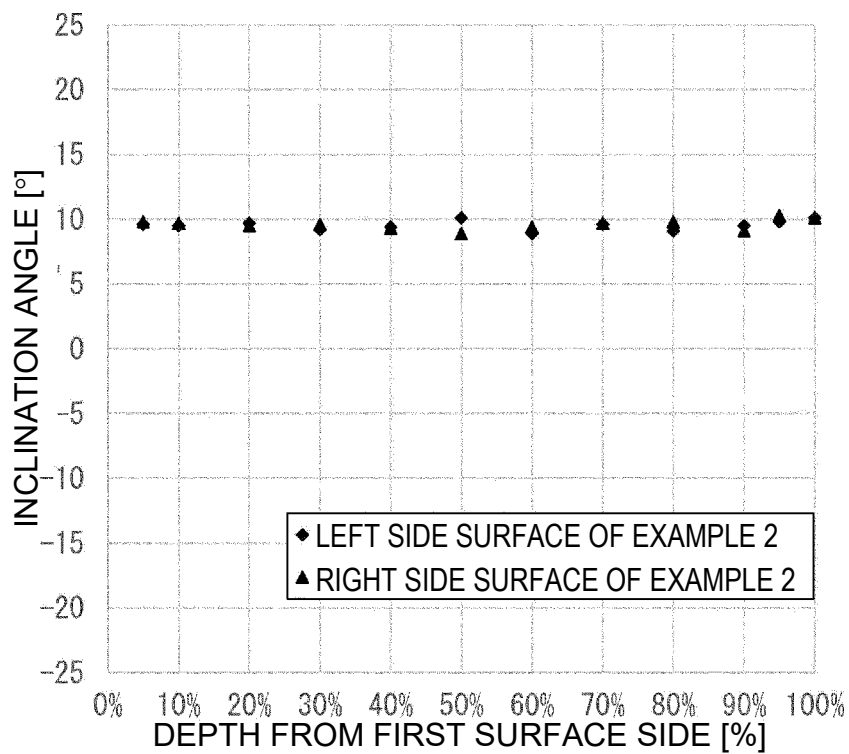


FIG. 53

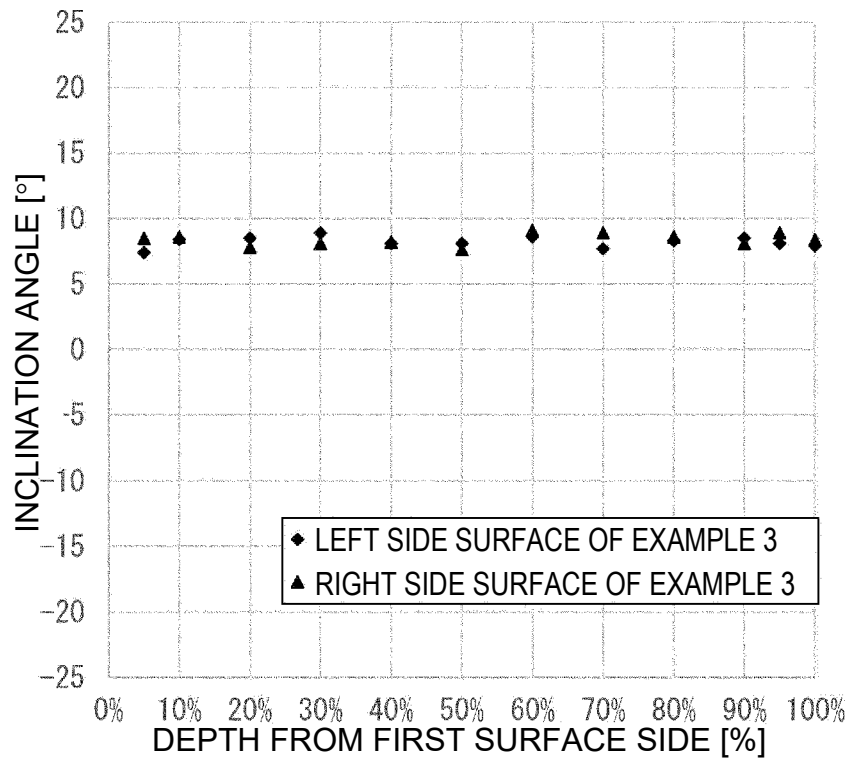


FIG. 54

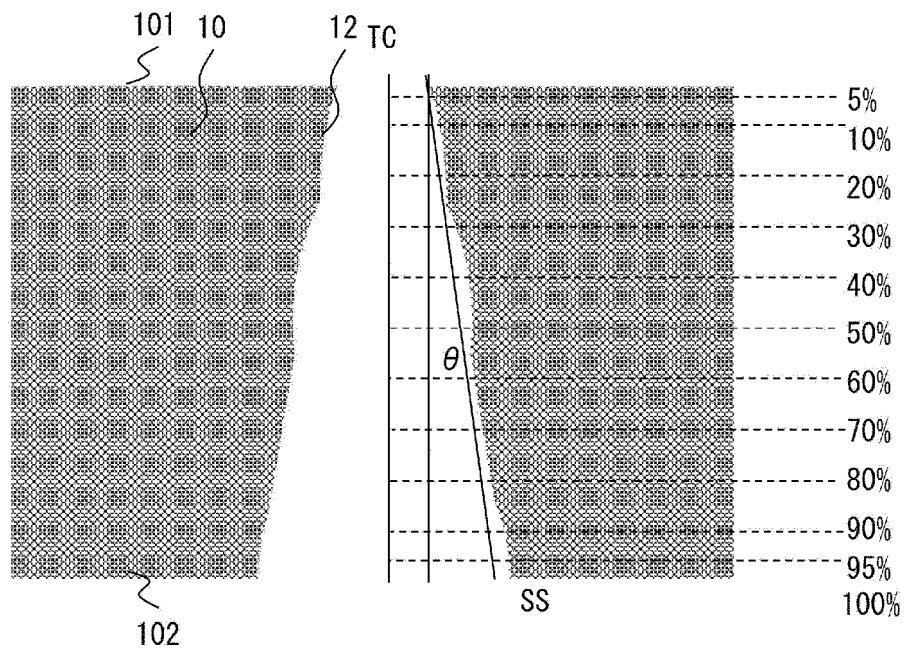


FIG. 55

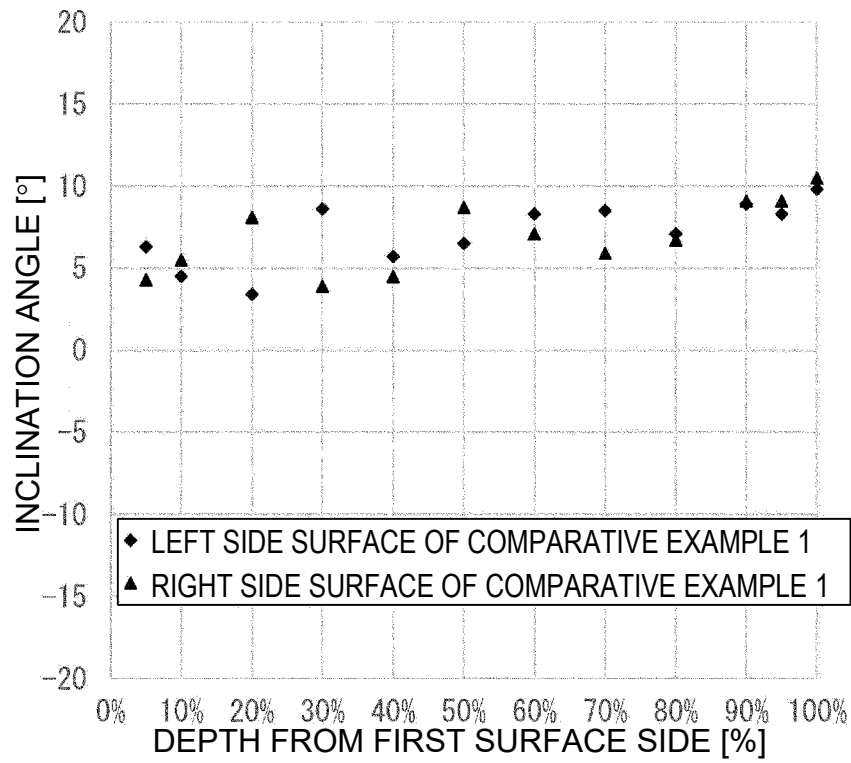


FIG. 56

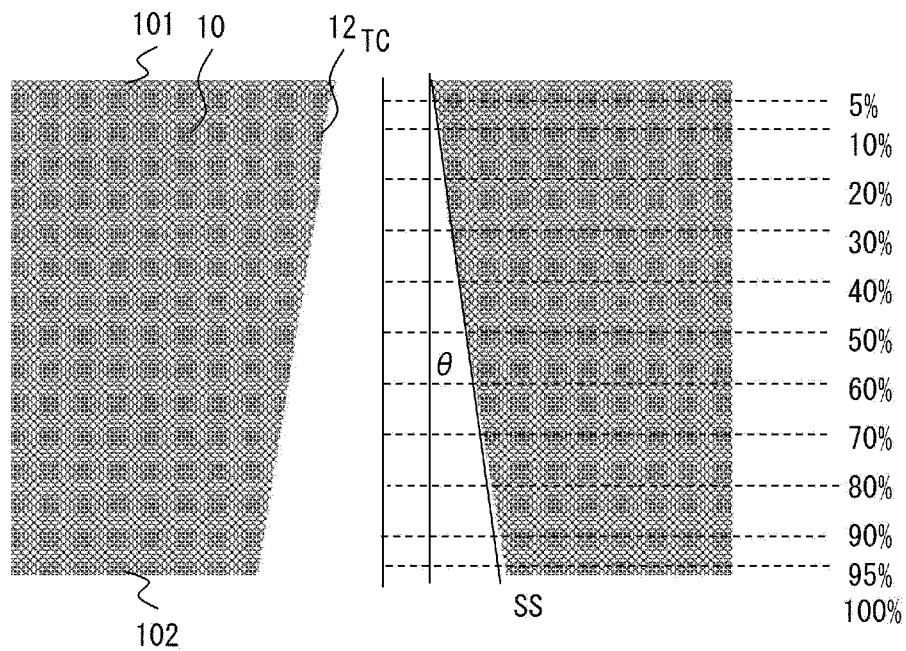


FIG. 57

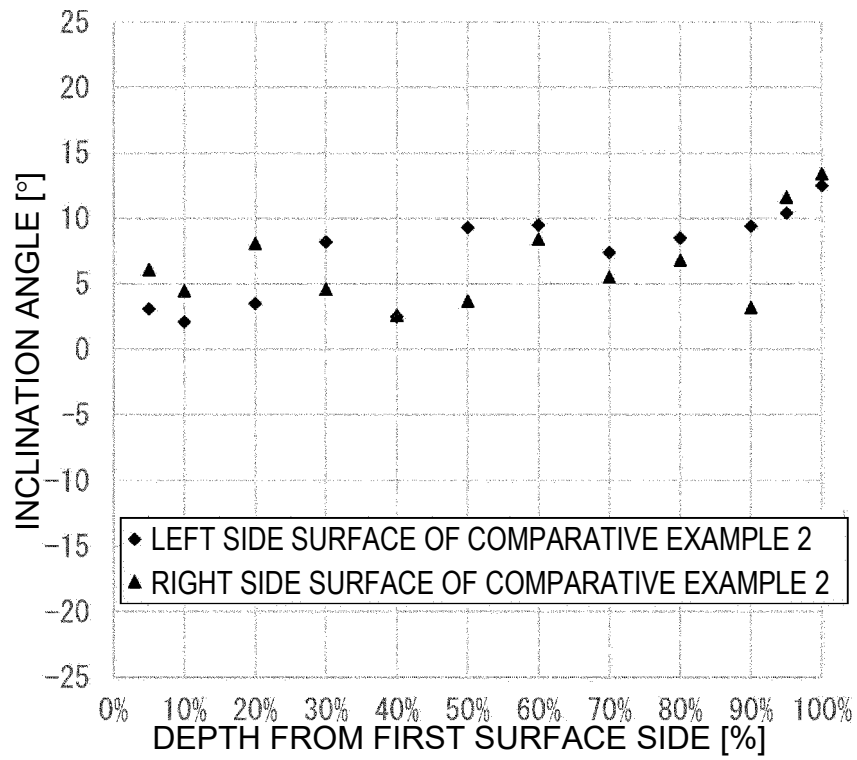


FIG. 58

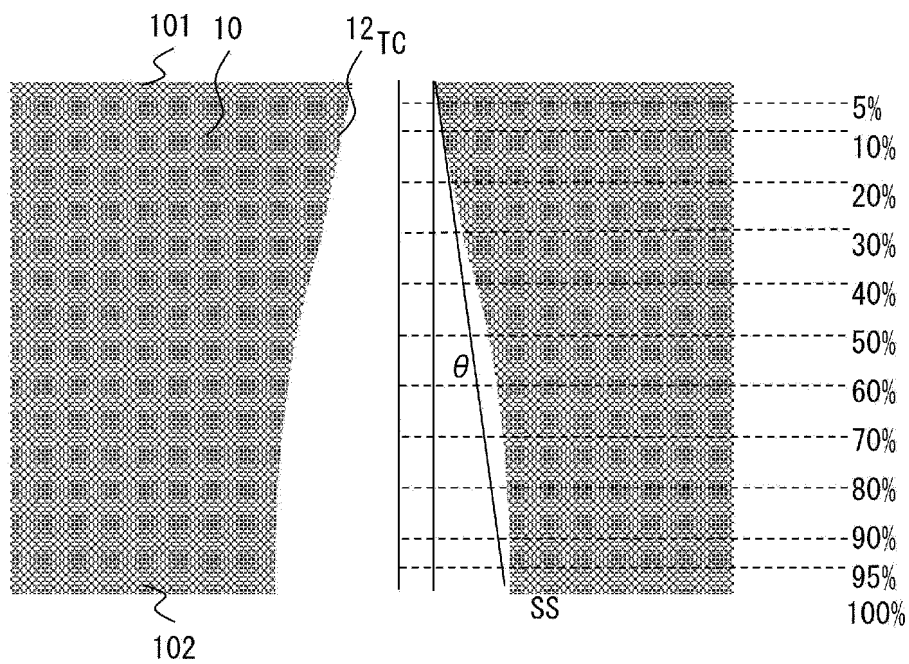


FIG. 59

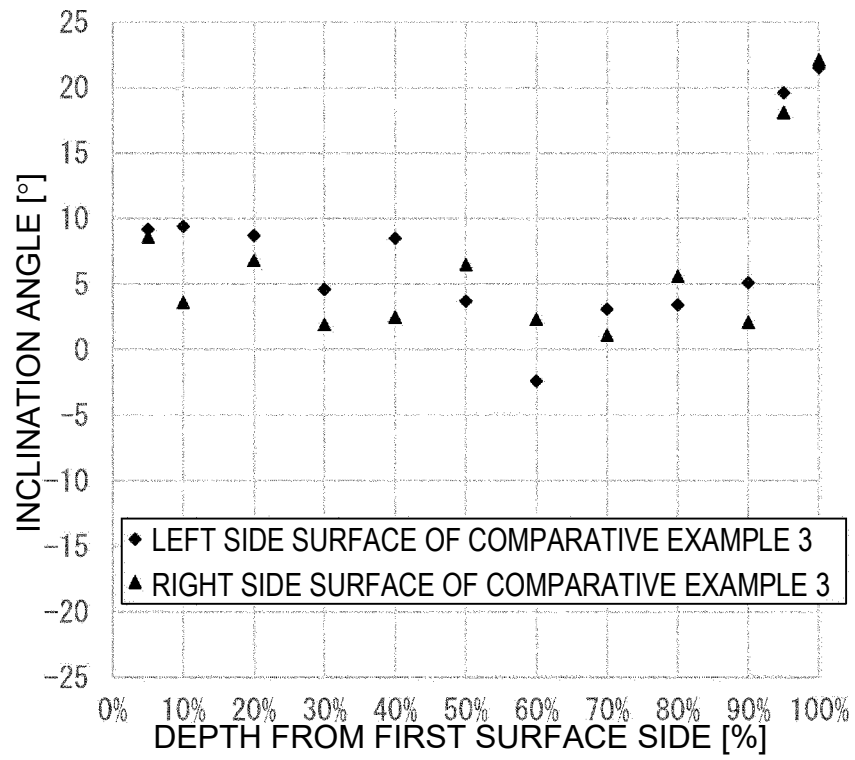


FIG. 60A

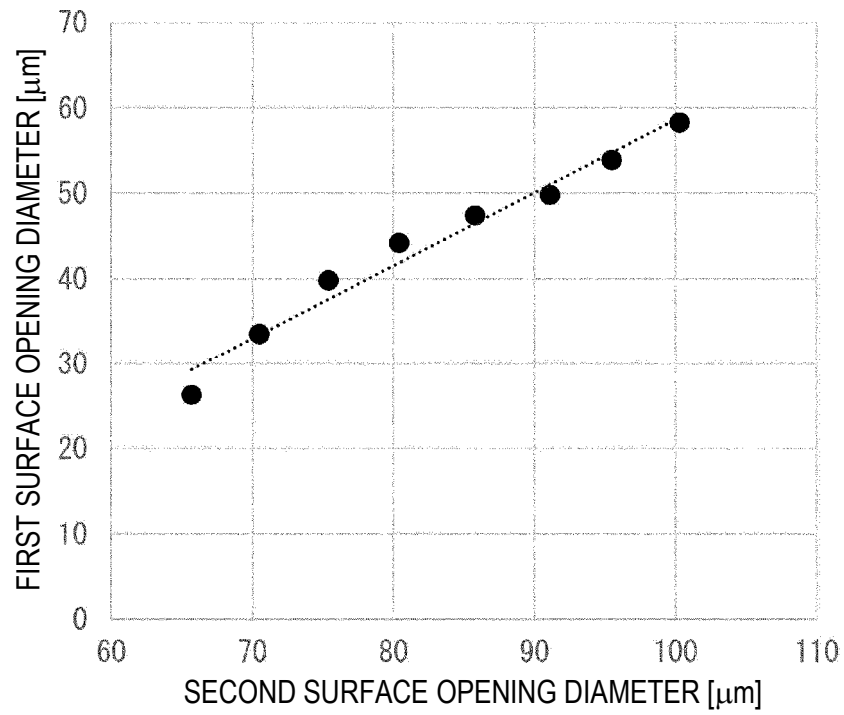


FIG. 60B

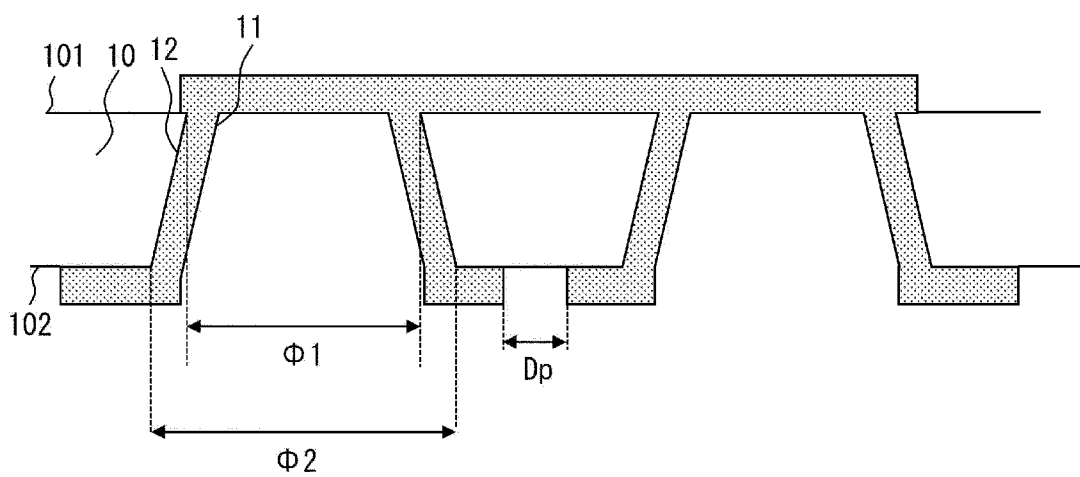
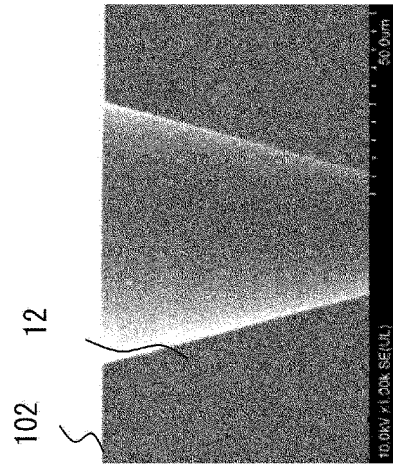
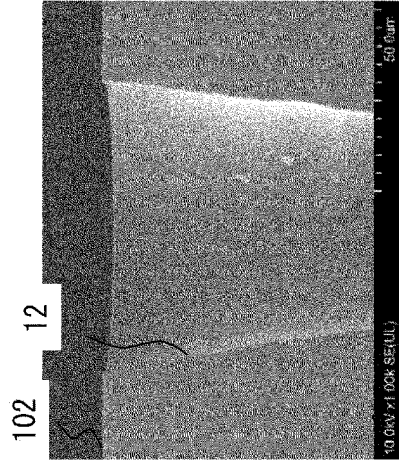


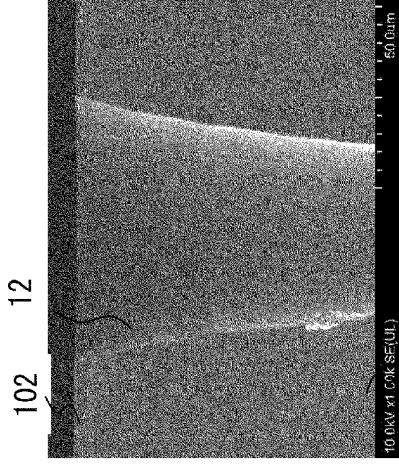
FIG. 61A



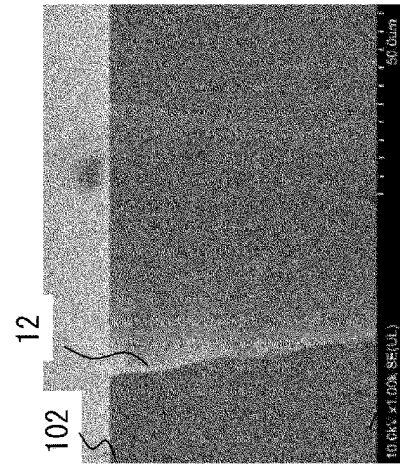
EXAMPLE 1



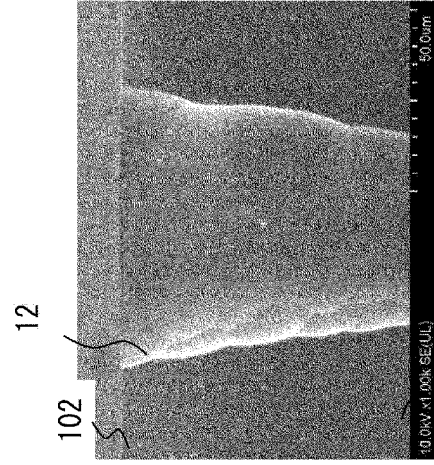
EXAMPLE 2



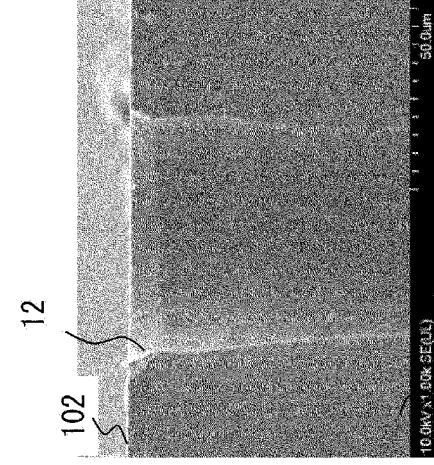
EXAMPLE 3



COMPARATIVE EXAMPLE 1

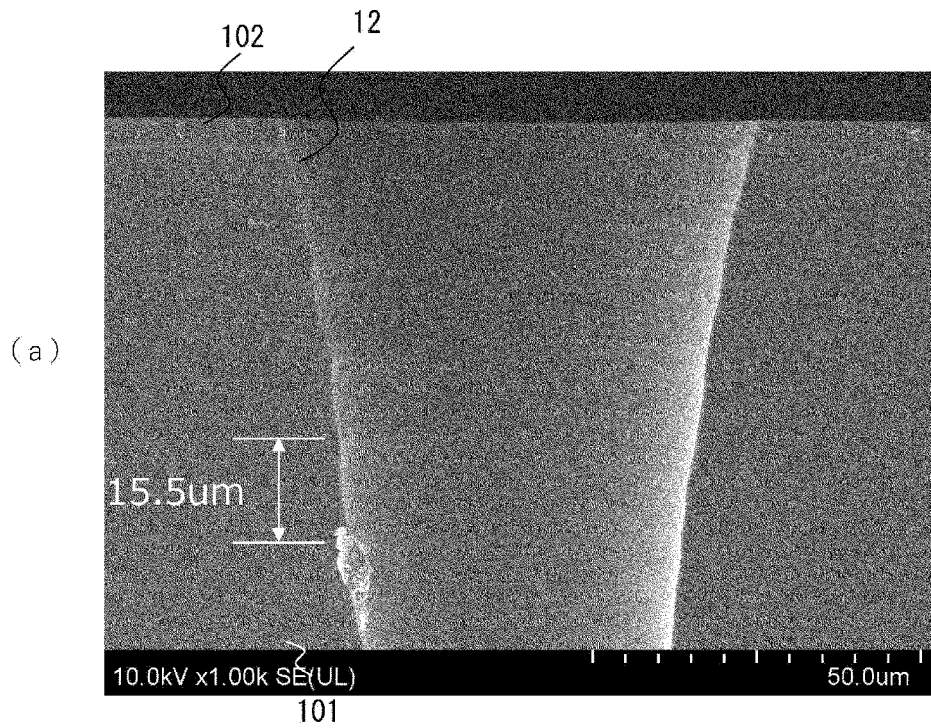


COMPARATIVE EXAMPLE 2

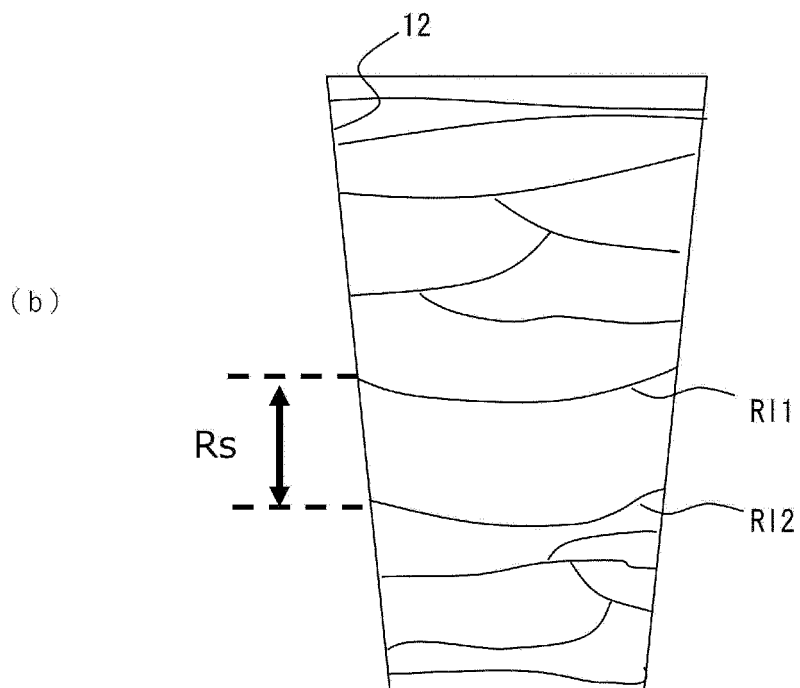


COMPARATIVE EXAMPLE 3

FIG. 61B



EXAMPLE 3



35/60
FIG. 61C

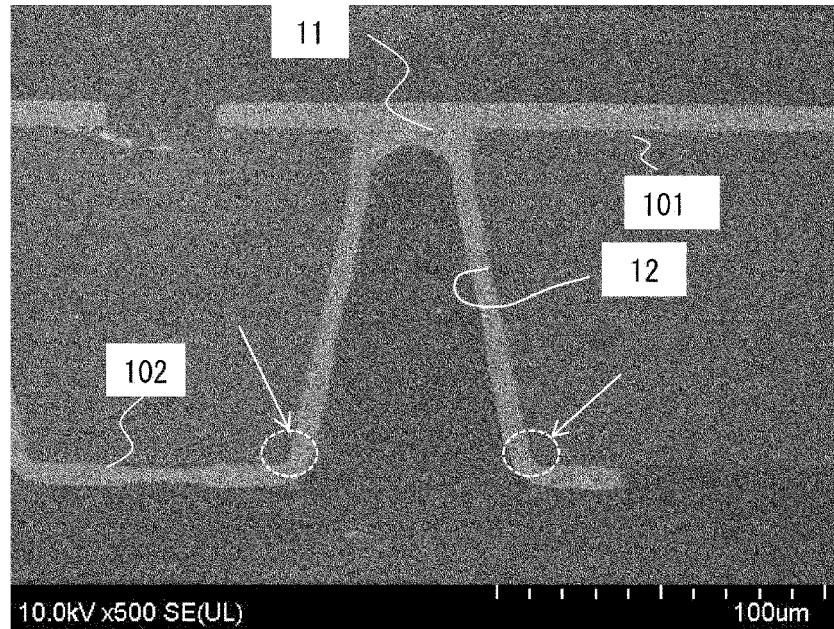


FIG. 62

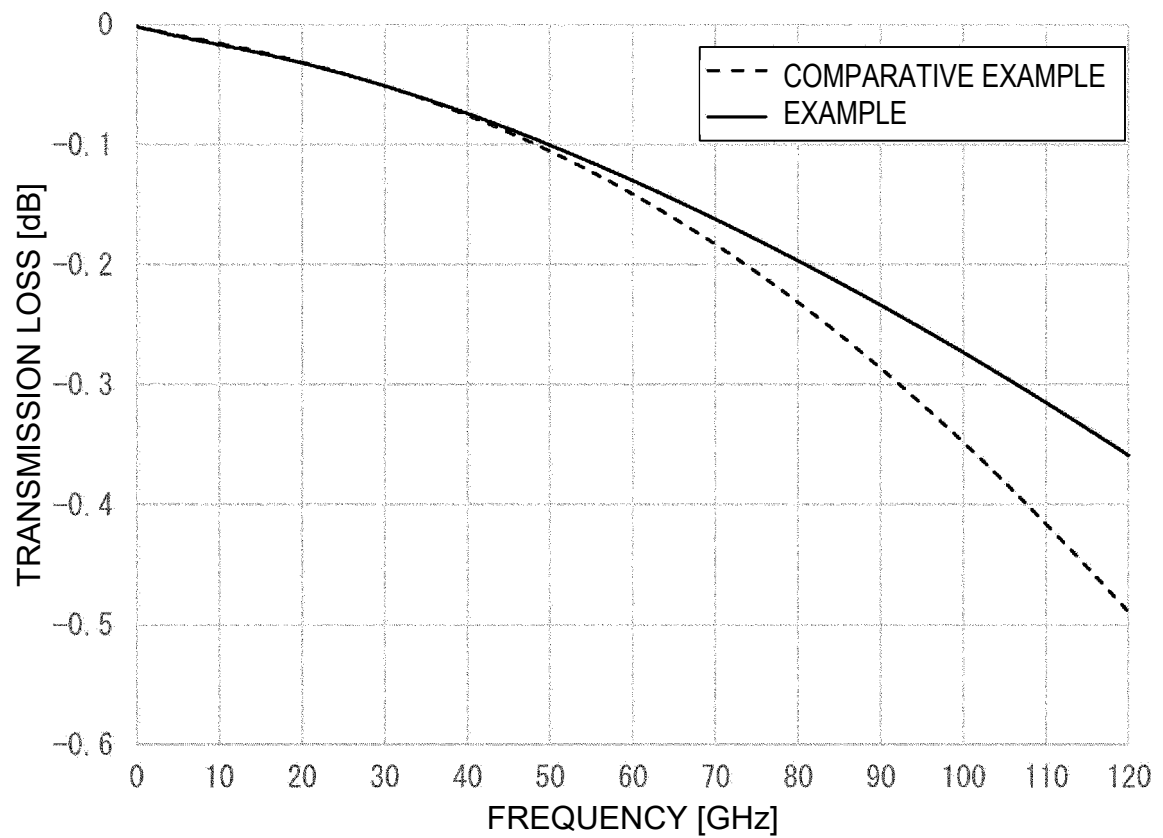


FIG. 63

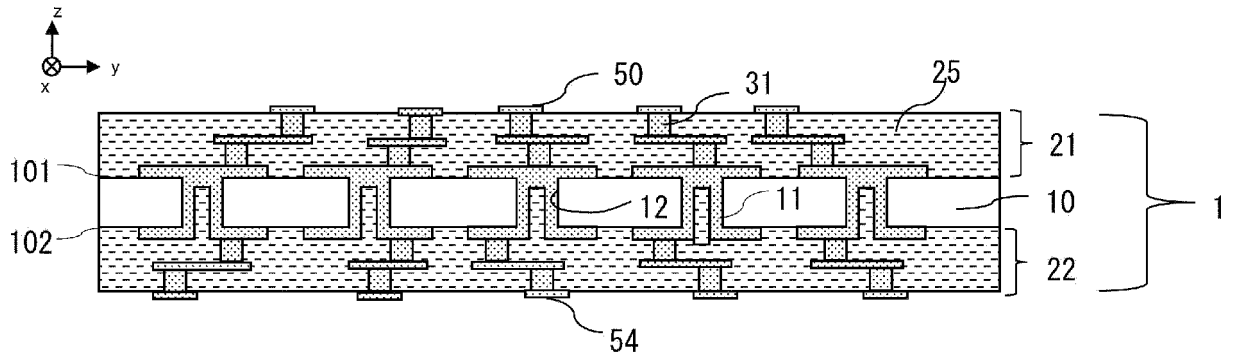


FIG. 64

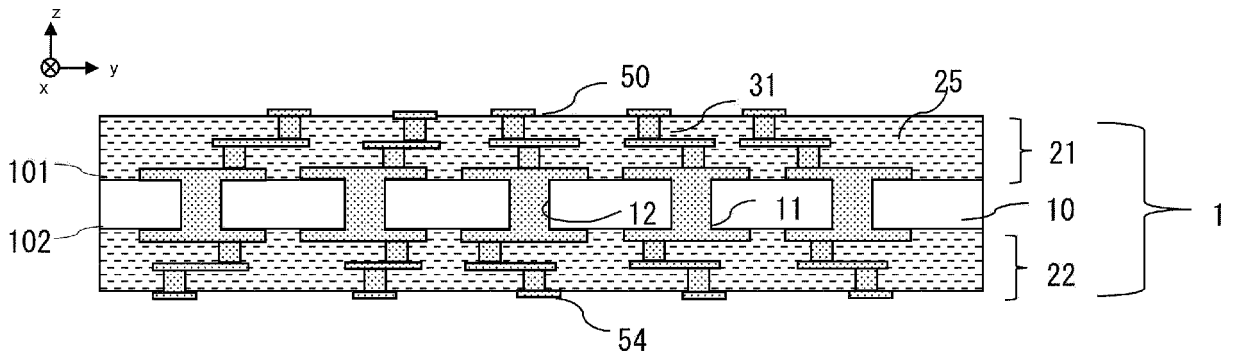


FIG. 65

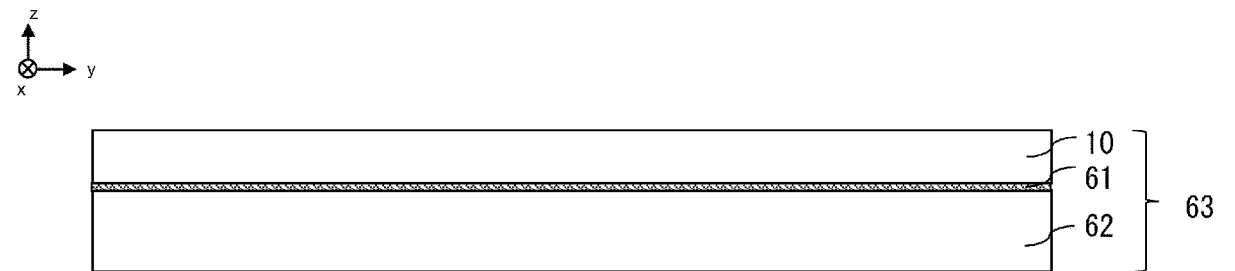
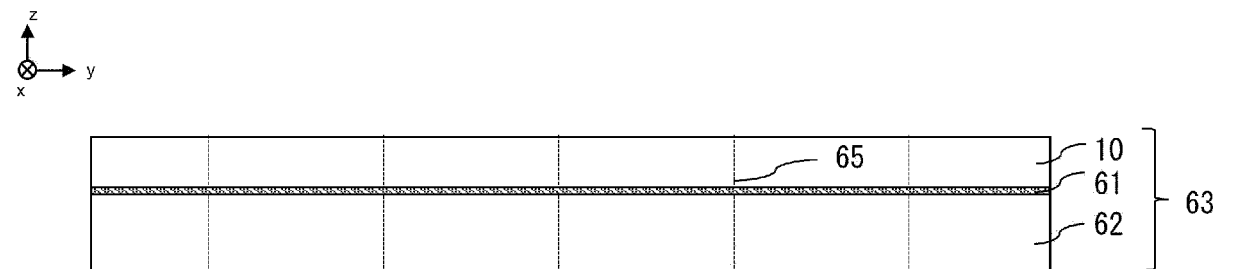


FIG. 66



37/60
FIG. 67

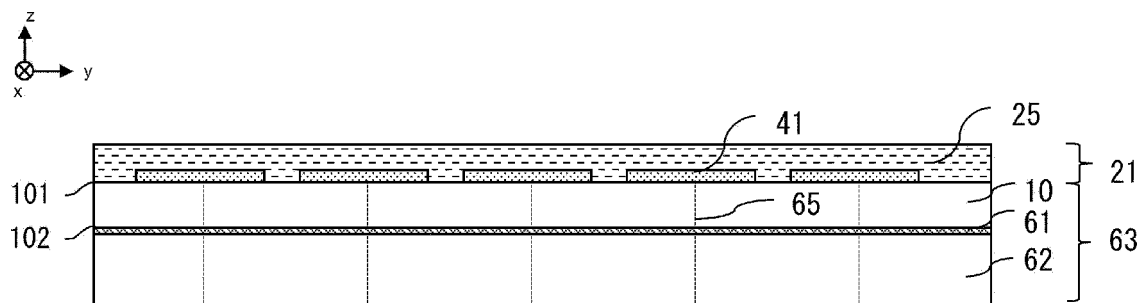


FIG. 68

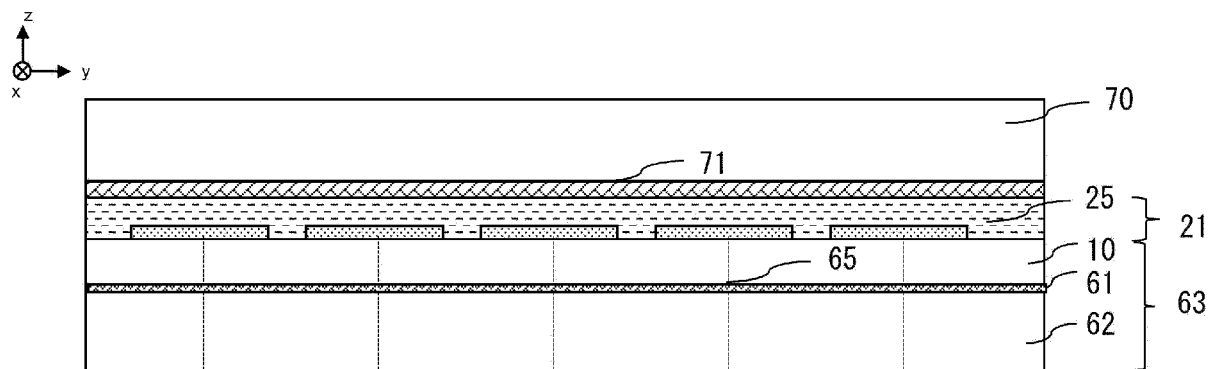


FIG. 69

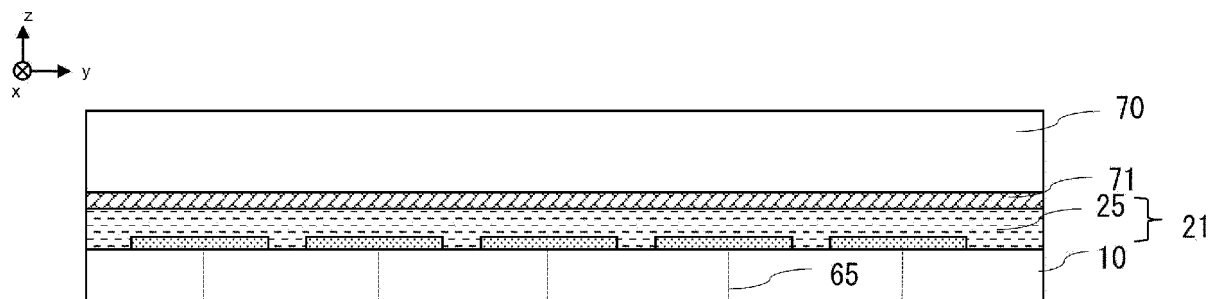


FIG. 70

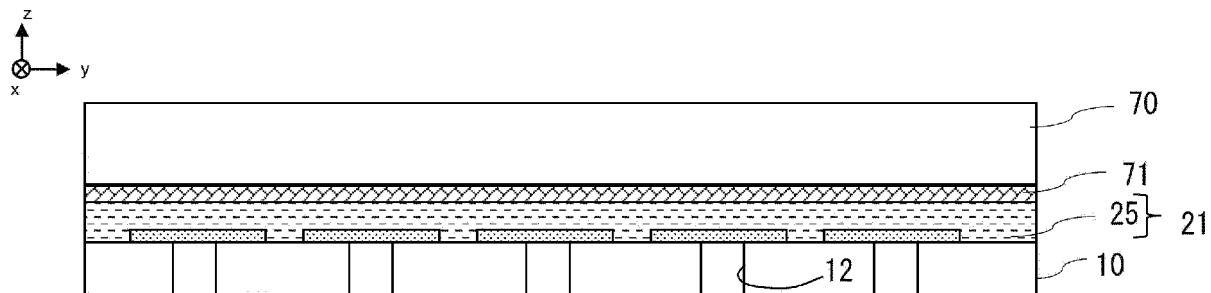


FIG. 71

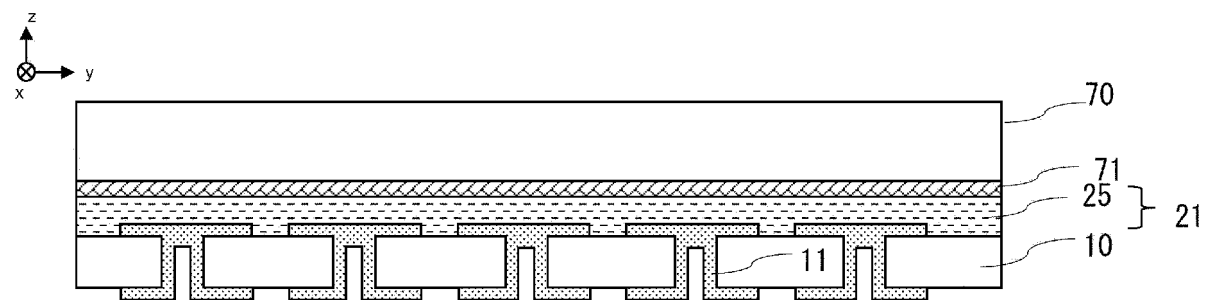
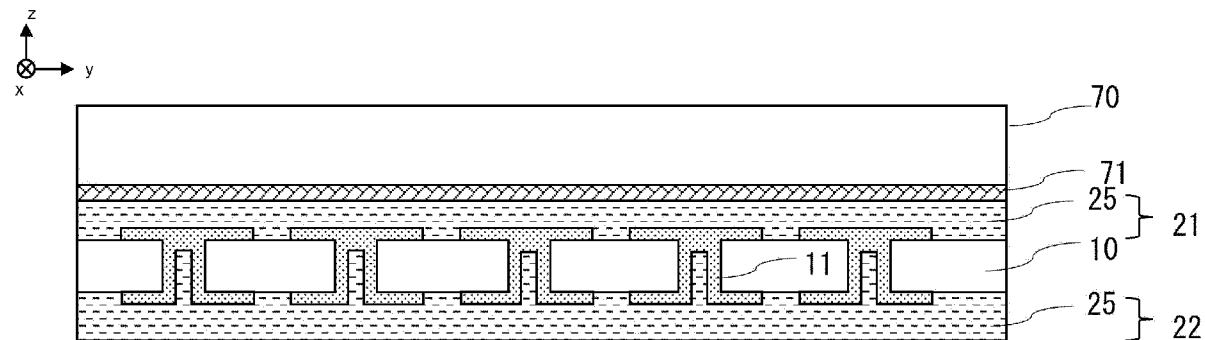


FIG. 72



39/60
FIG. 73

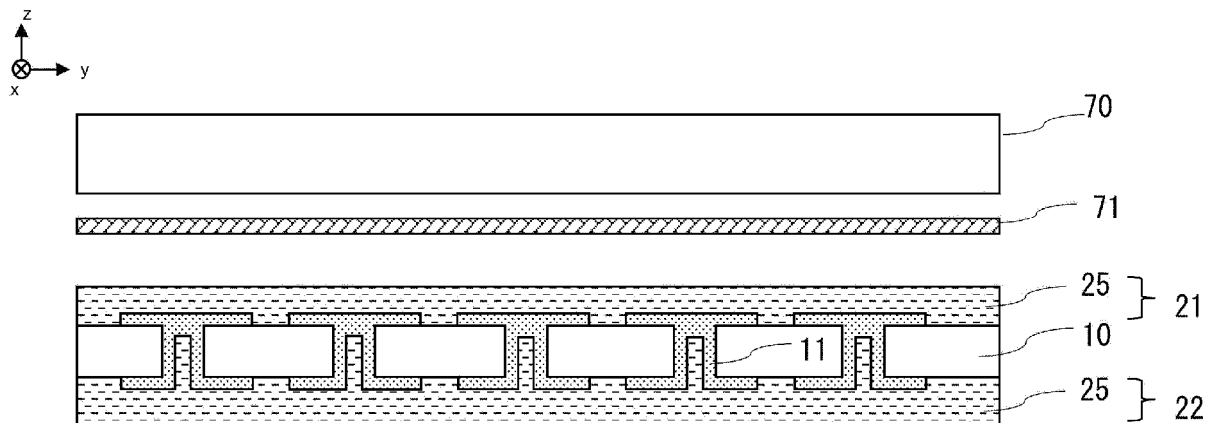


FIG. 74

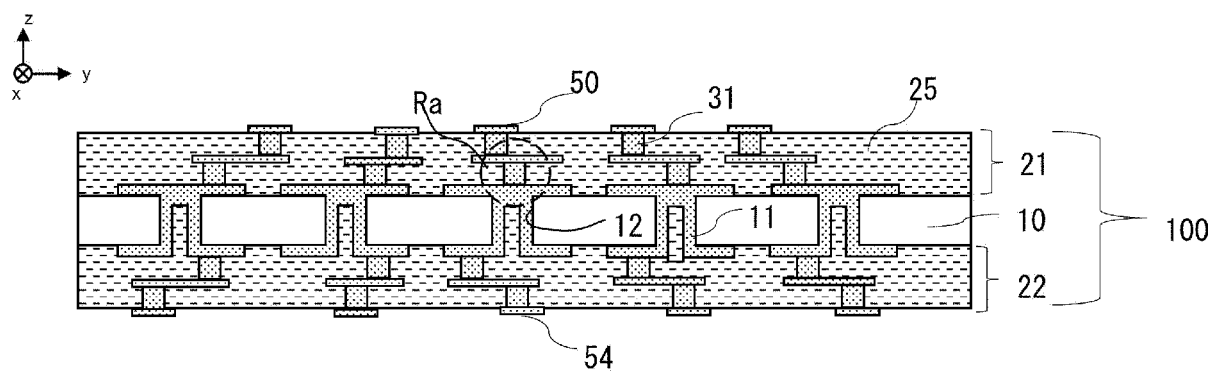


FIG. 75

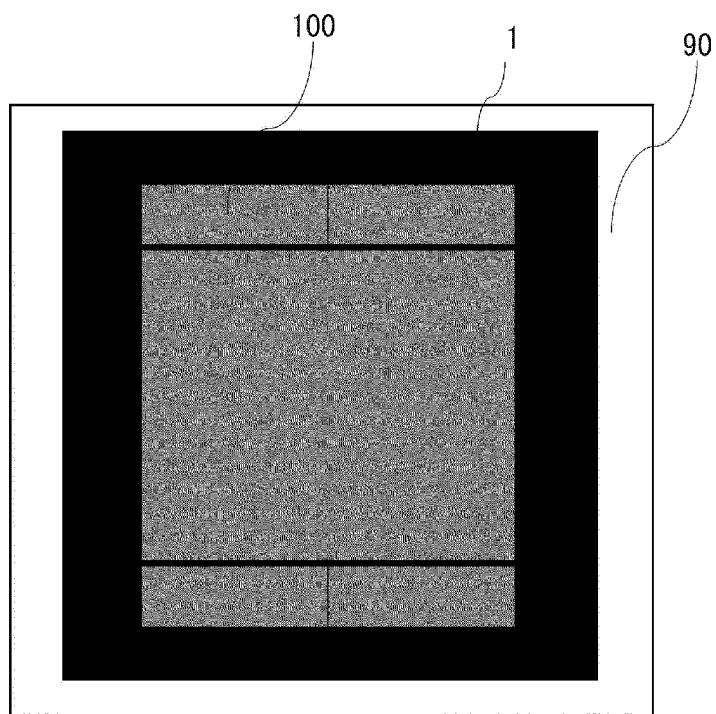


FIG. 76

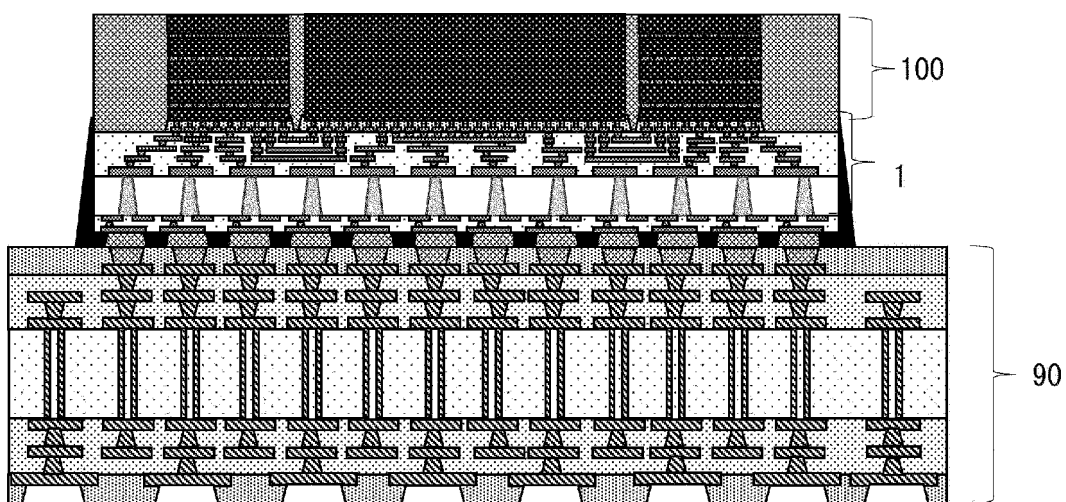


FIG. 77

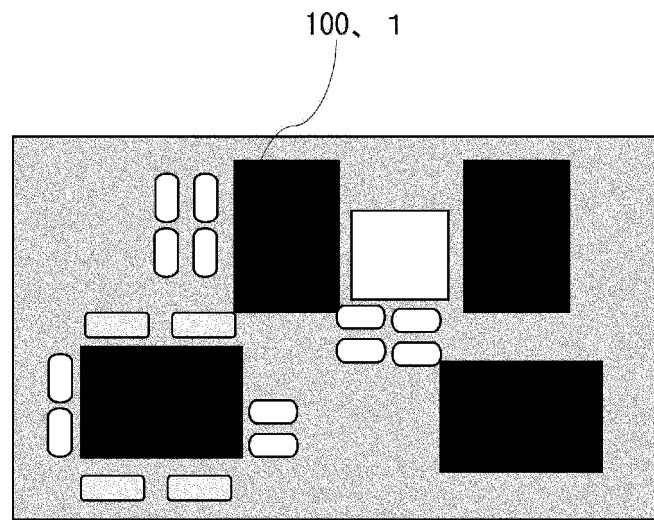


FIG. 78

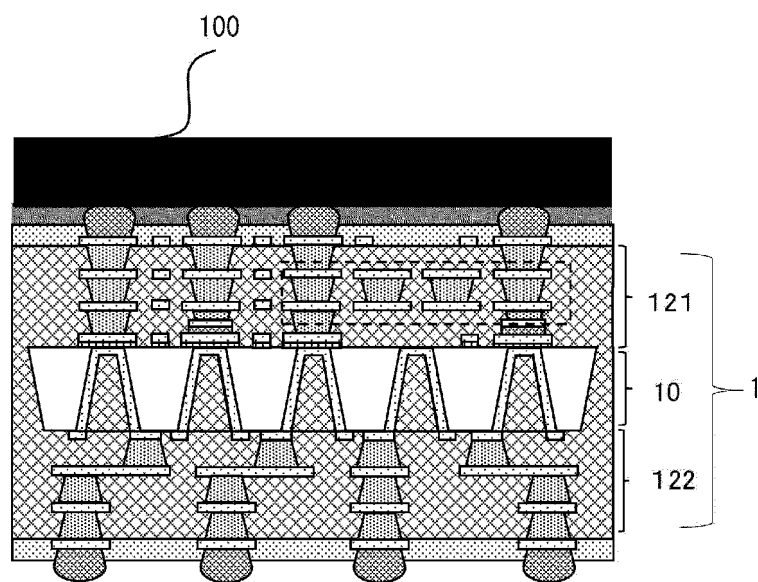


FIG. 79

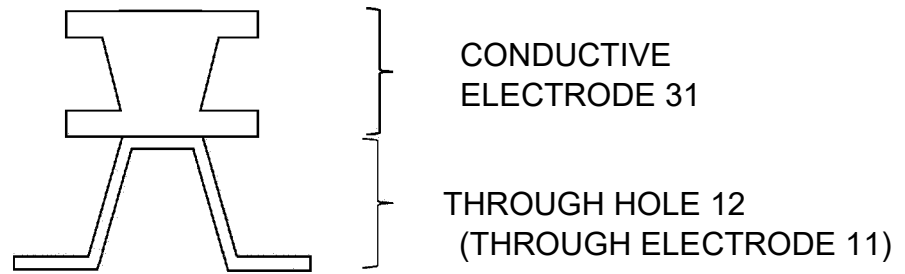


FIG. 80

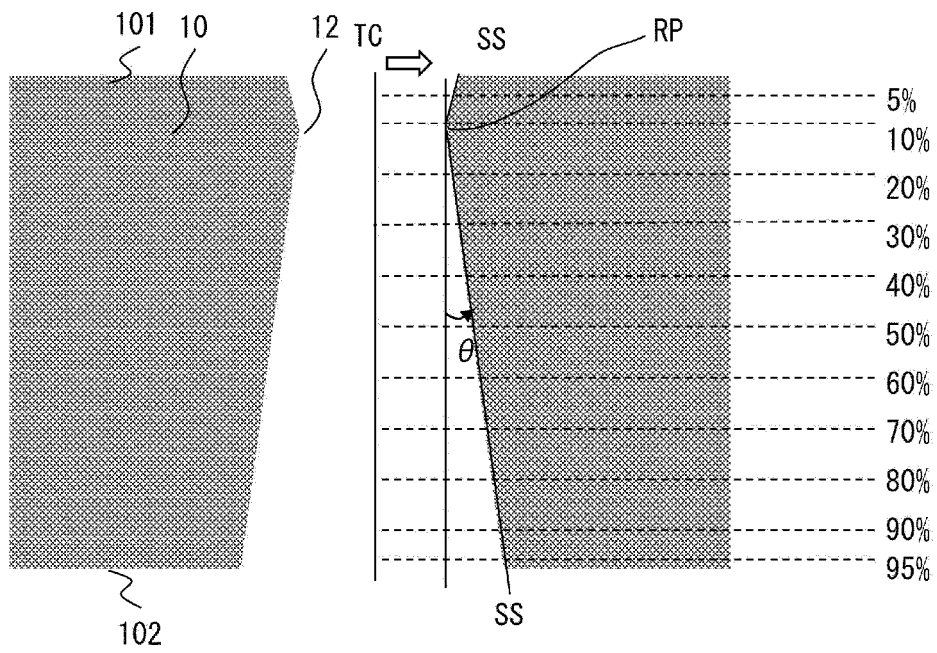
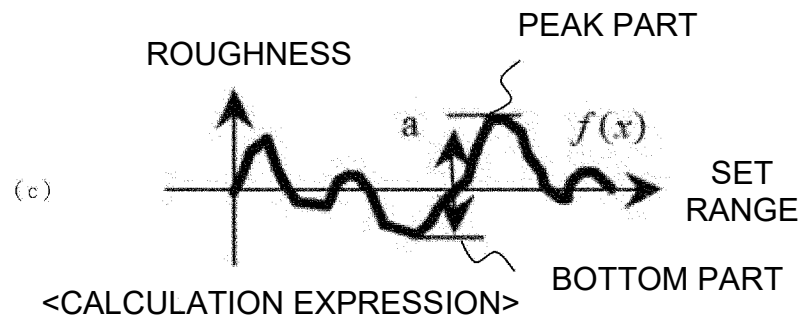
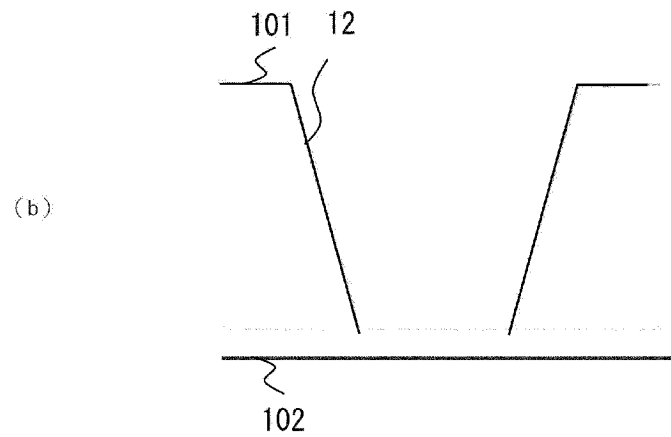
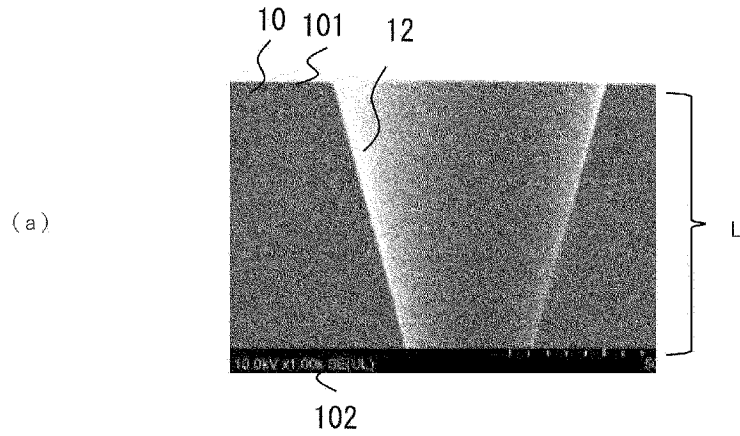


FIG. 81



MEAN ROUGHNESS (MEAN DISPERSION ROUGHNESS)

$$R_a = \frac{1}{L} \int_0^L |f(x)| dx \quad \dots \text{EXPRESSION (1)}$$

L: LENGTH OF SET REGION

ROUGHNESS WIDTH: a

FIG. 82

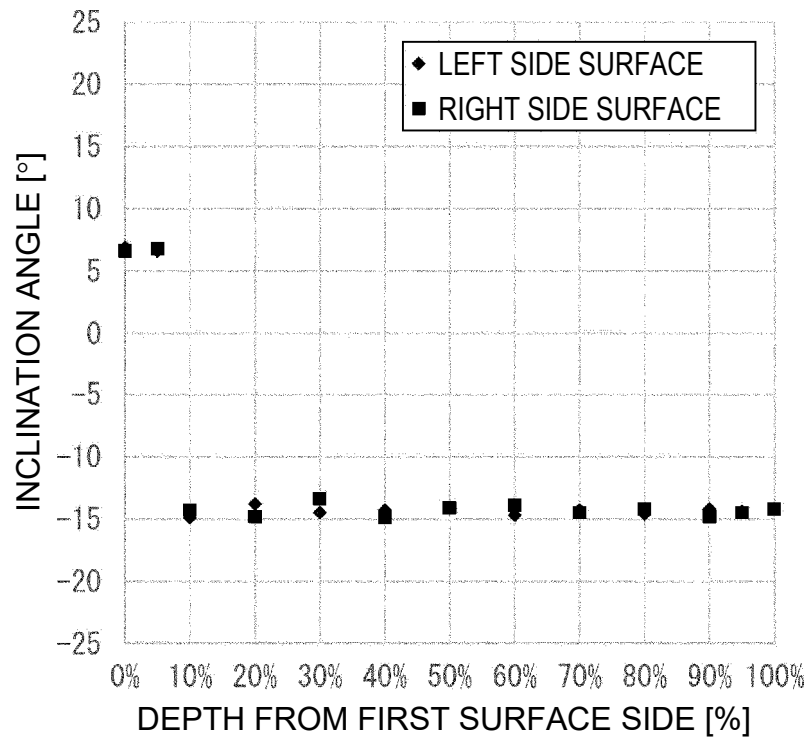
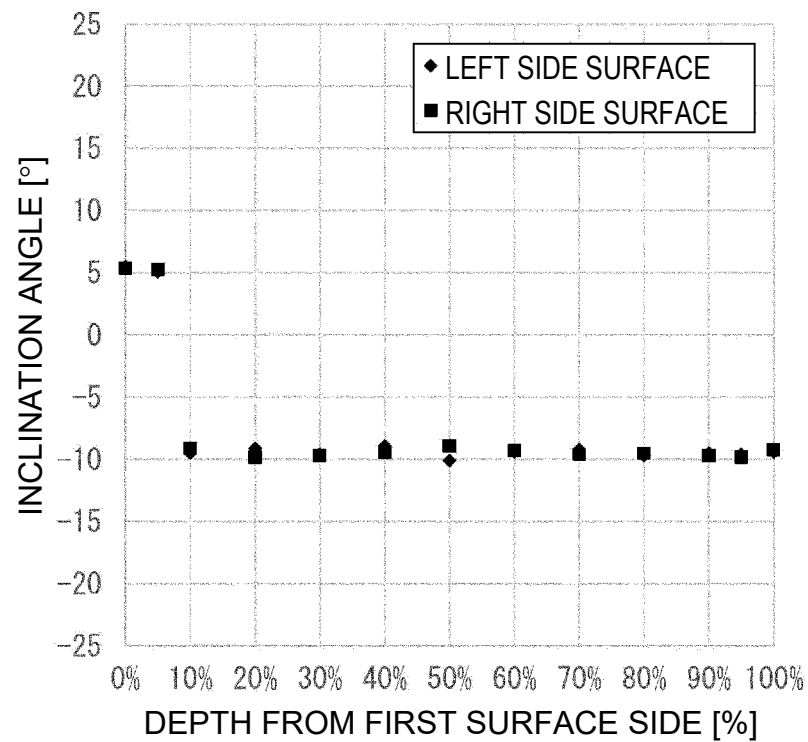


FIG. 83



45/60

FIG. 84

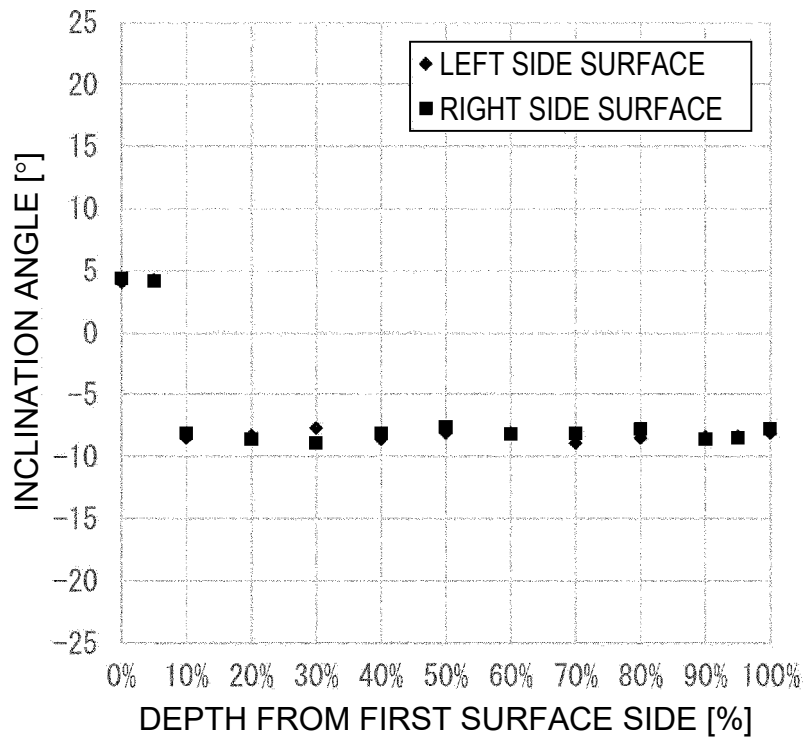


FIG. 85

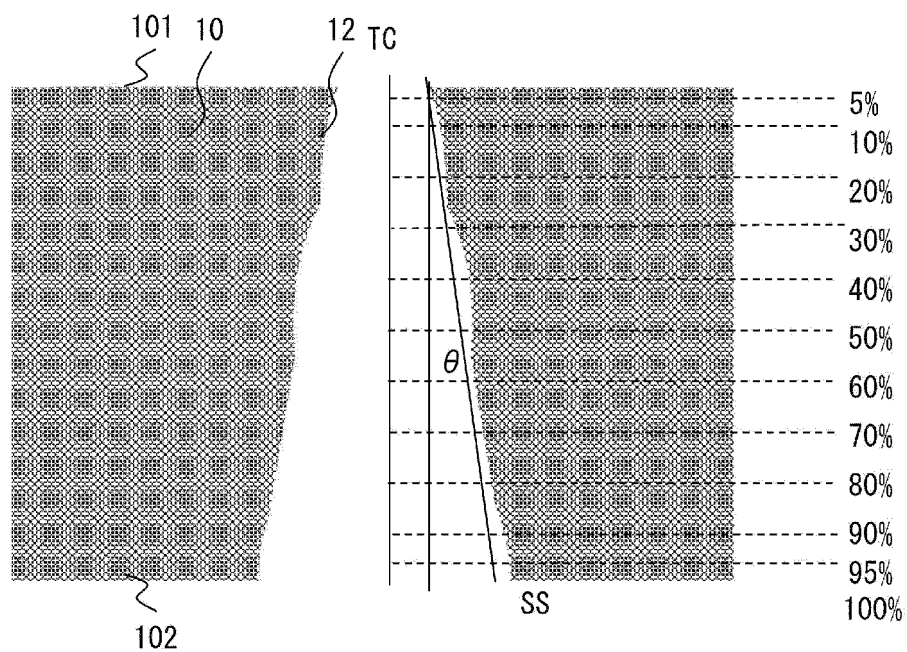


FIG. 86

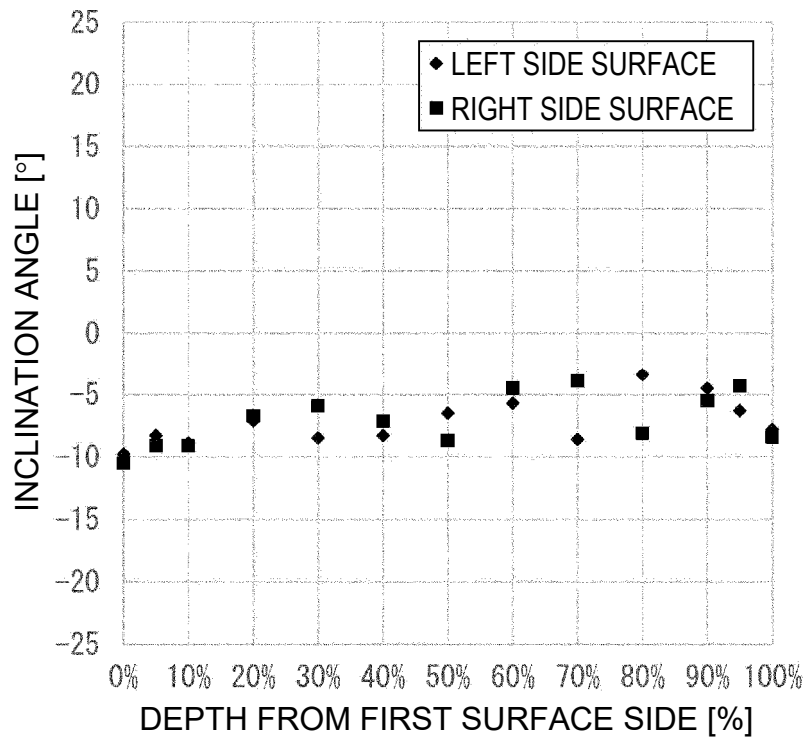


FIG. 87

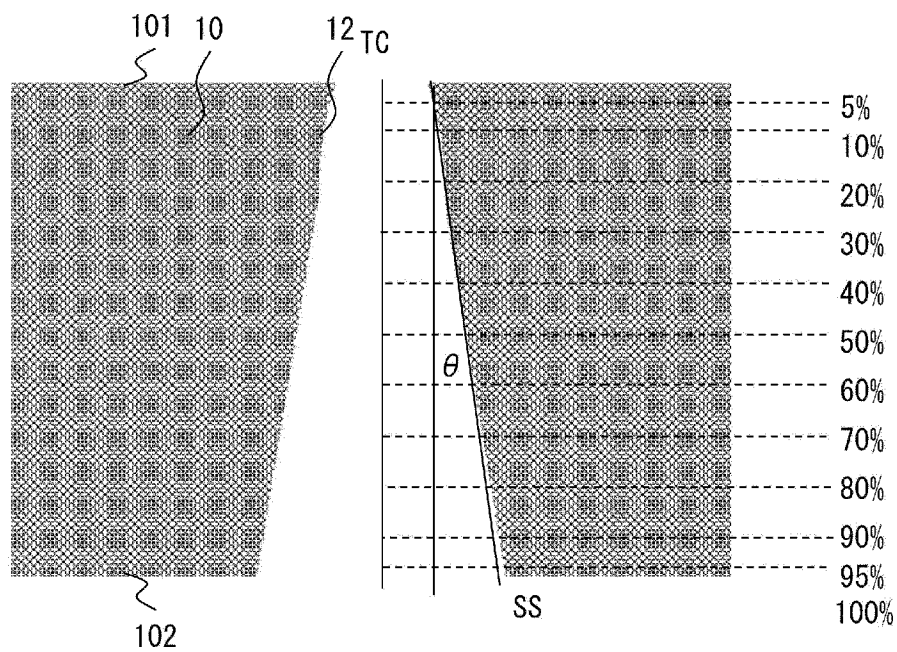


FIG. 88

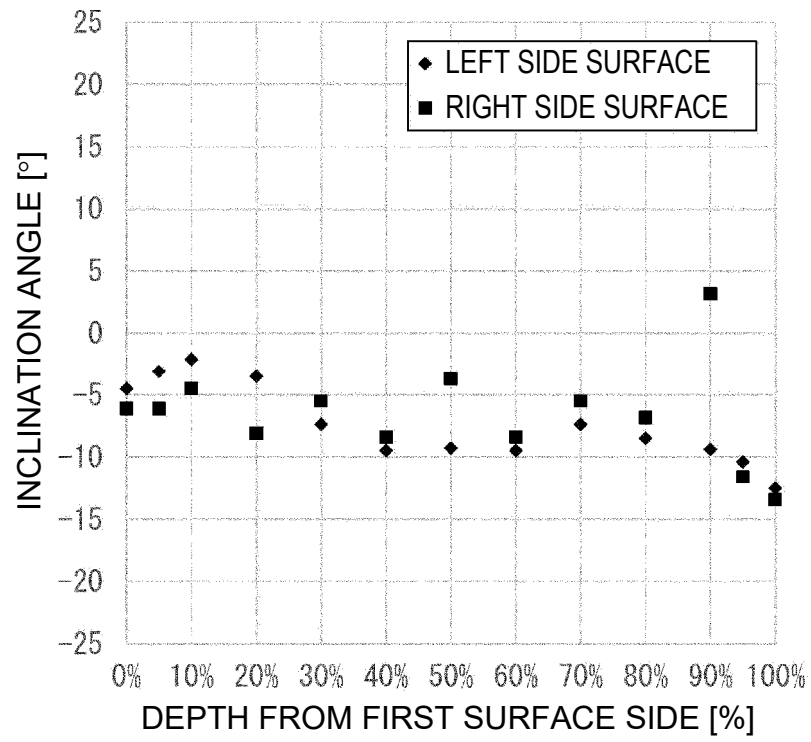


FIG. 89

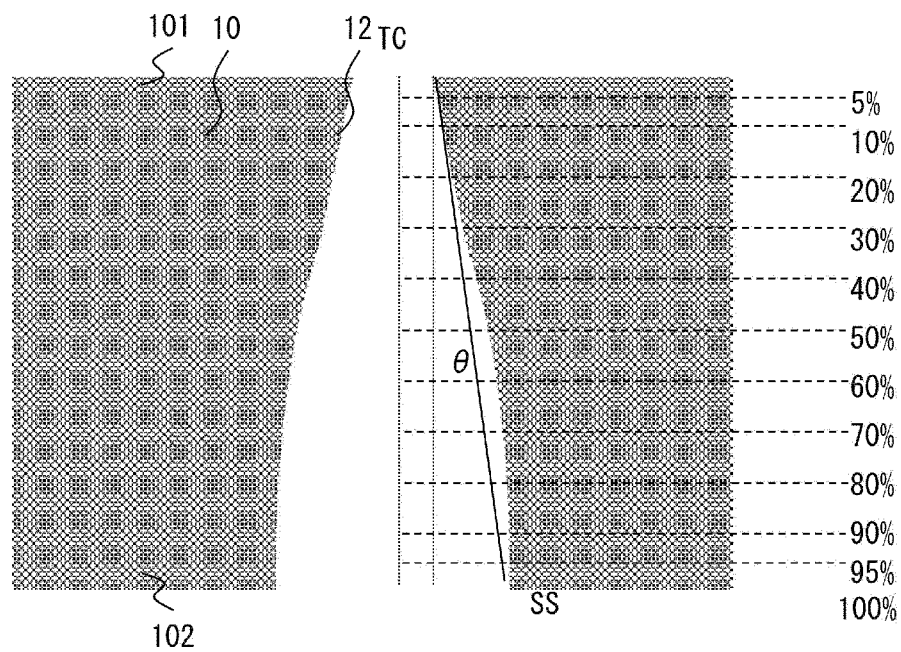


FIG. 90

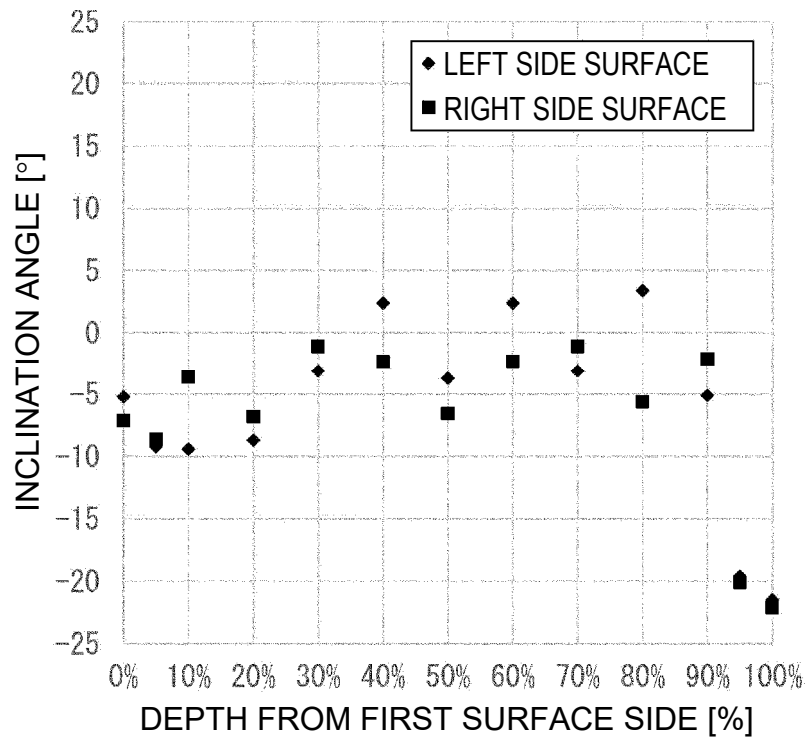


FIG. 91

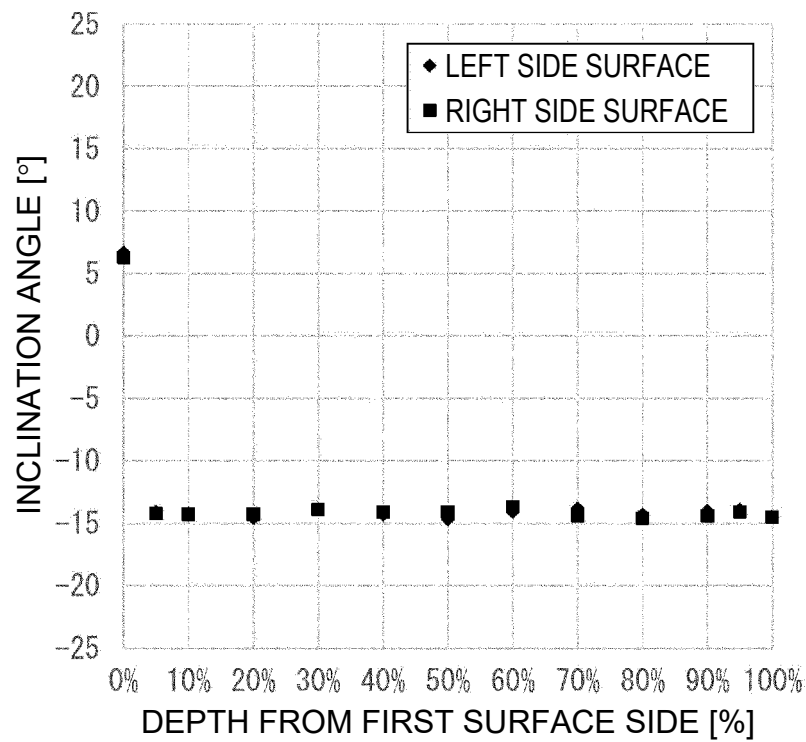


FIG. 92

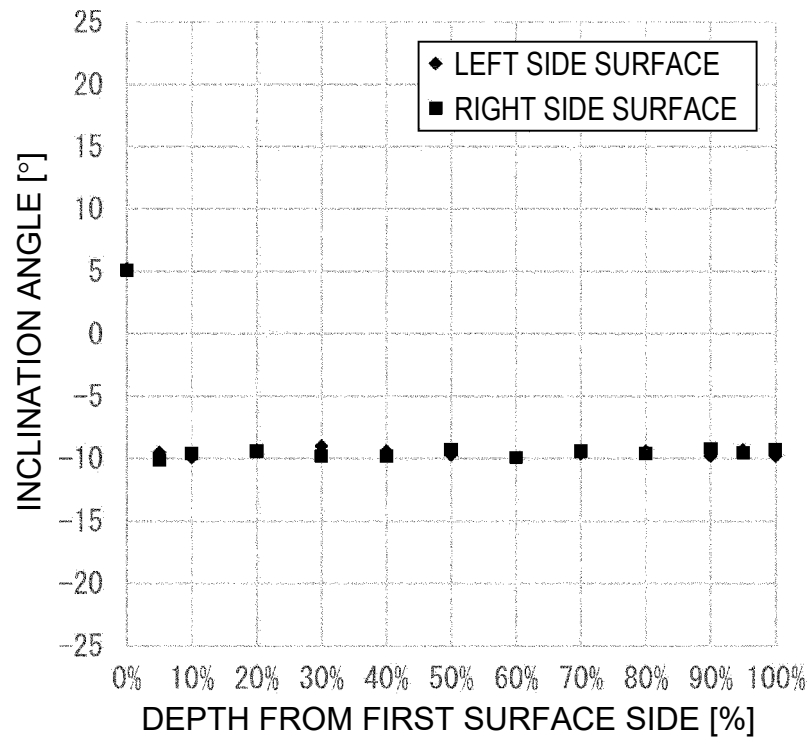
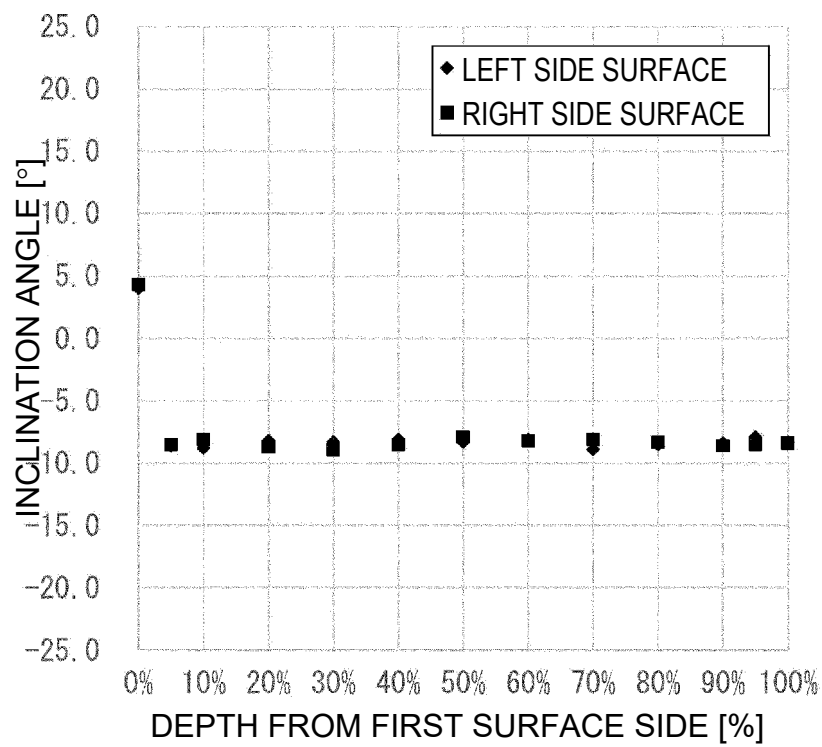


FIG. 93



50/60

FIG. 94A

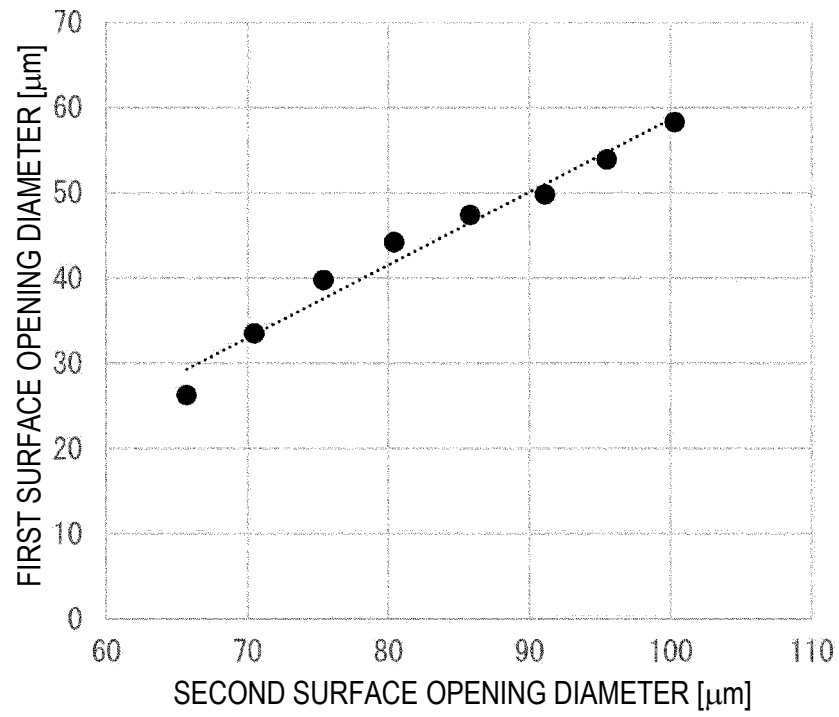


FIG. 94B

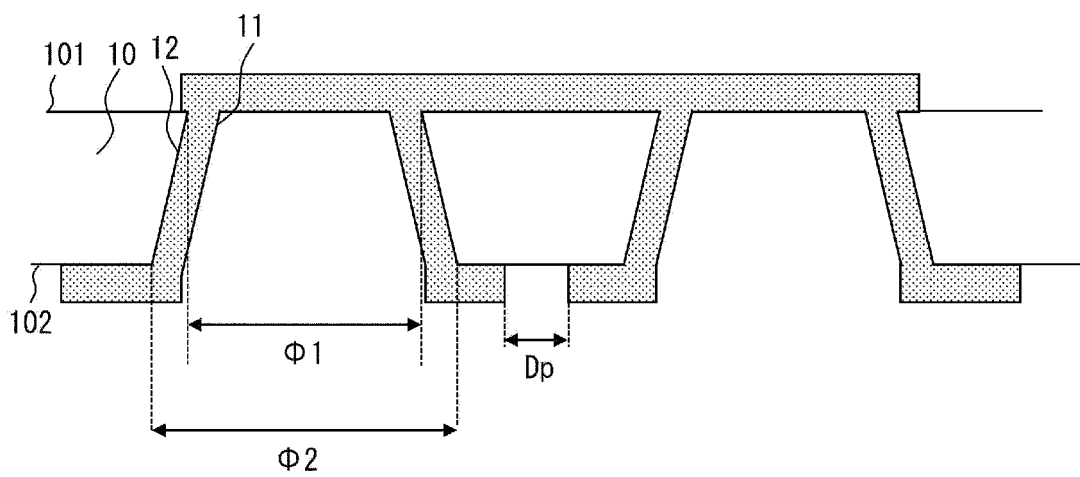


FIG. 94C

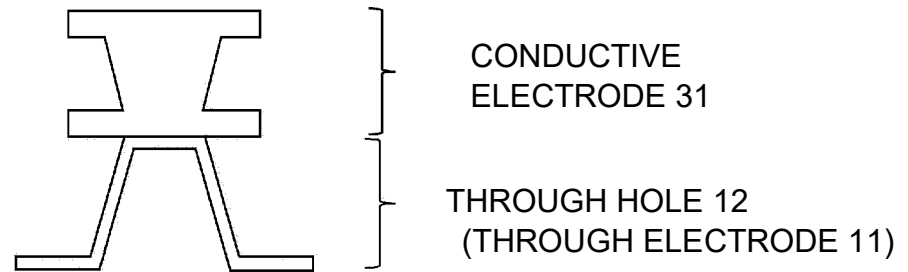


FIG. 95A

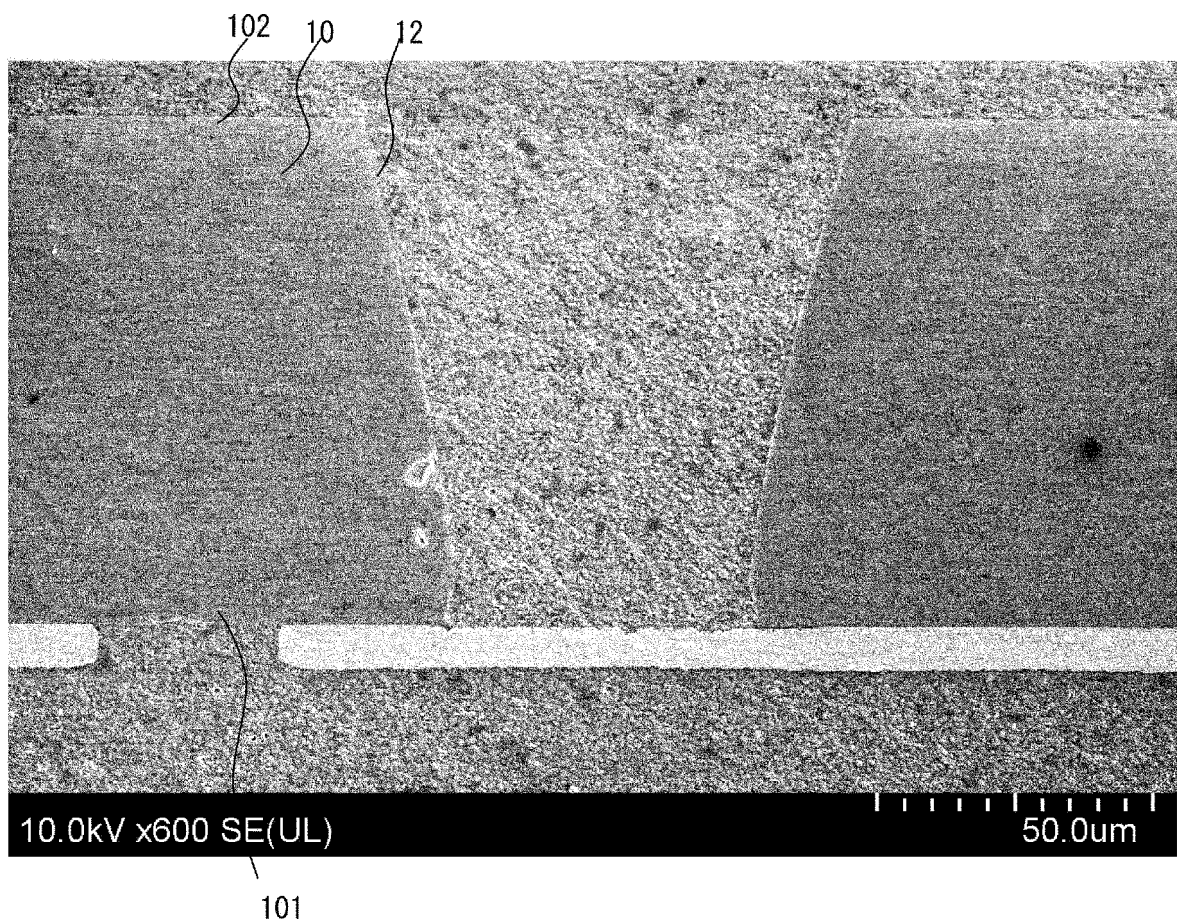
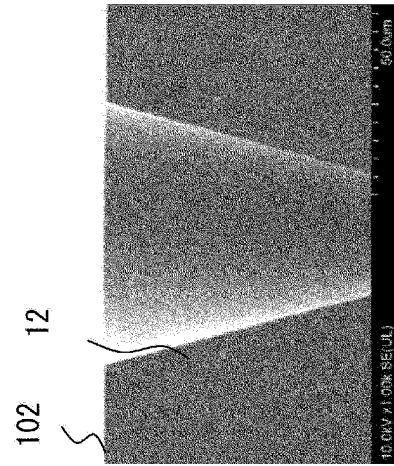
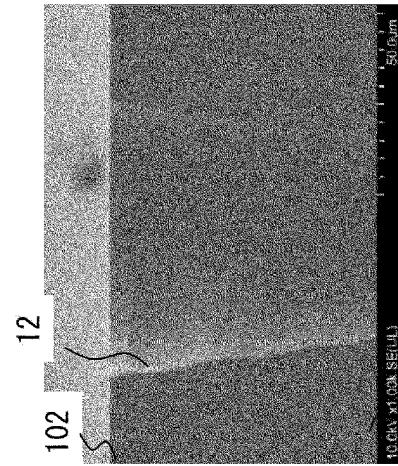


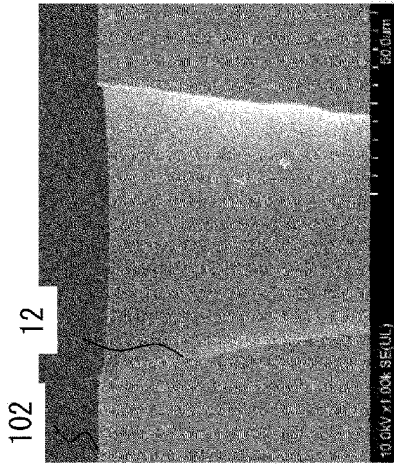
FIG. 95B



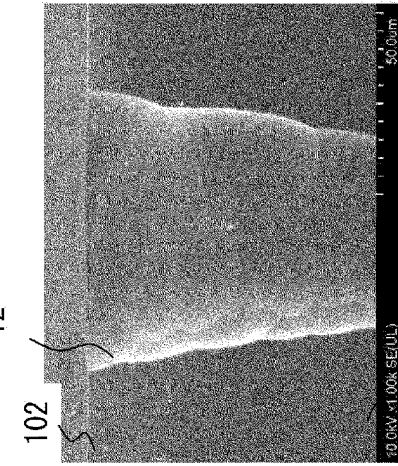
EXAMPLE 1



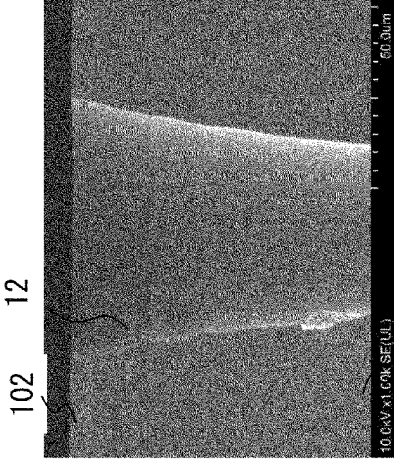
COMPARATIVE EXAMPLE 1



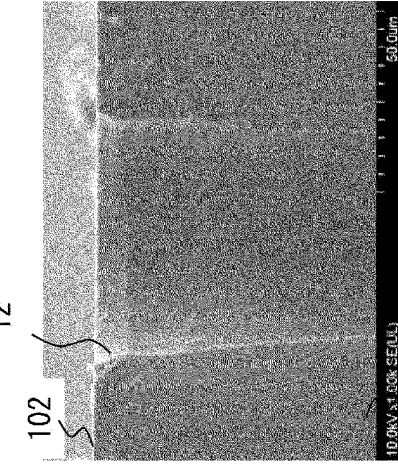
EXAMPLE 2



COMPARATIVE EXAMPLE 2

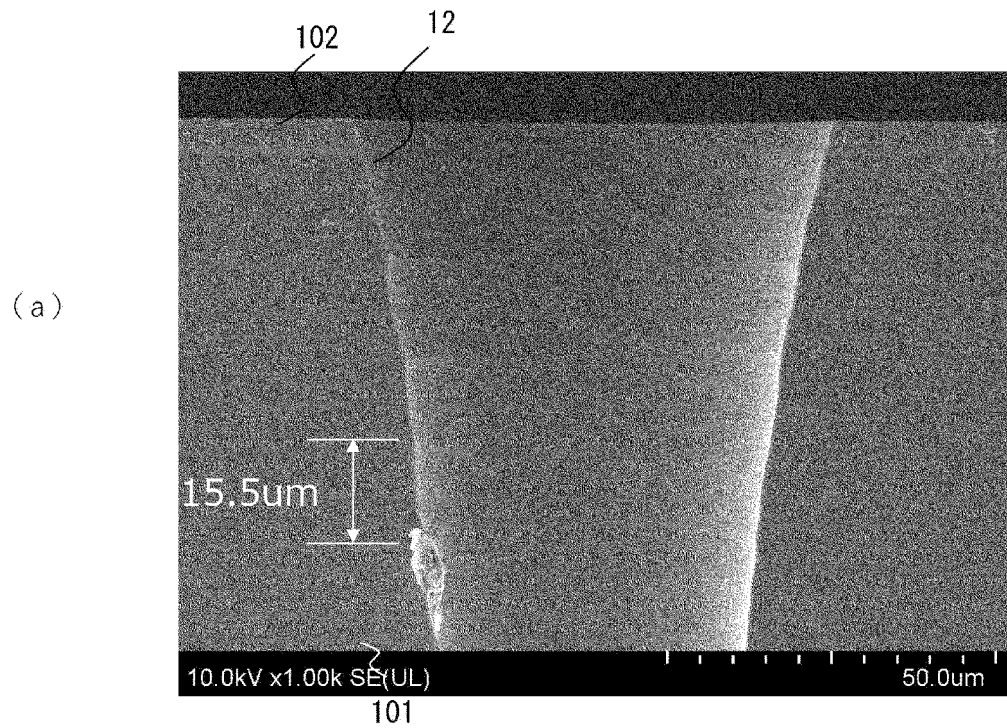


EXAMPLE 3

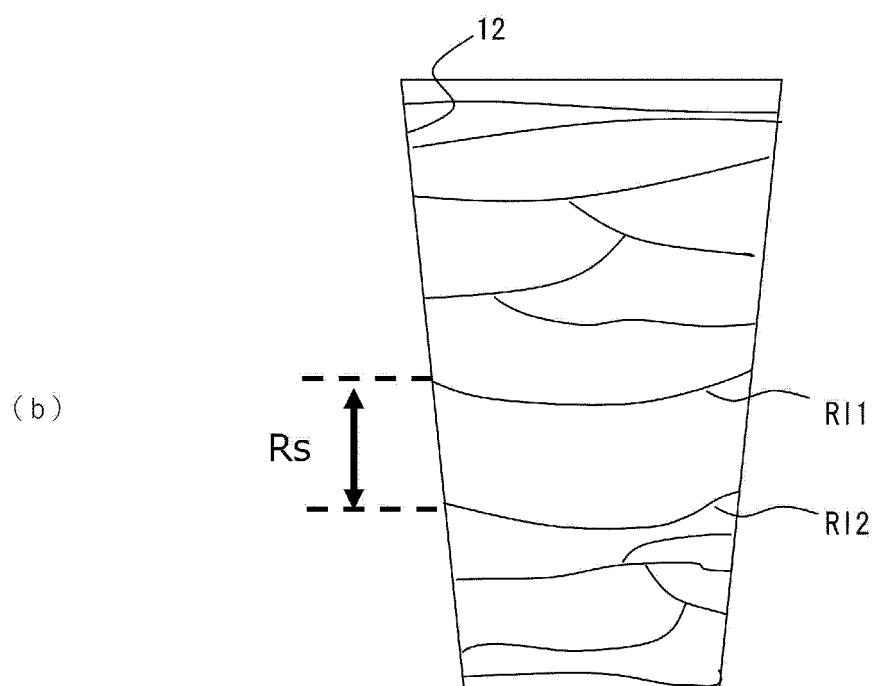


COMPARATIVE EXAMPLE 3

53/60
FIG. 95C



EXAMPLE 3



54/60
FIG. 95D

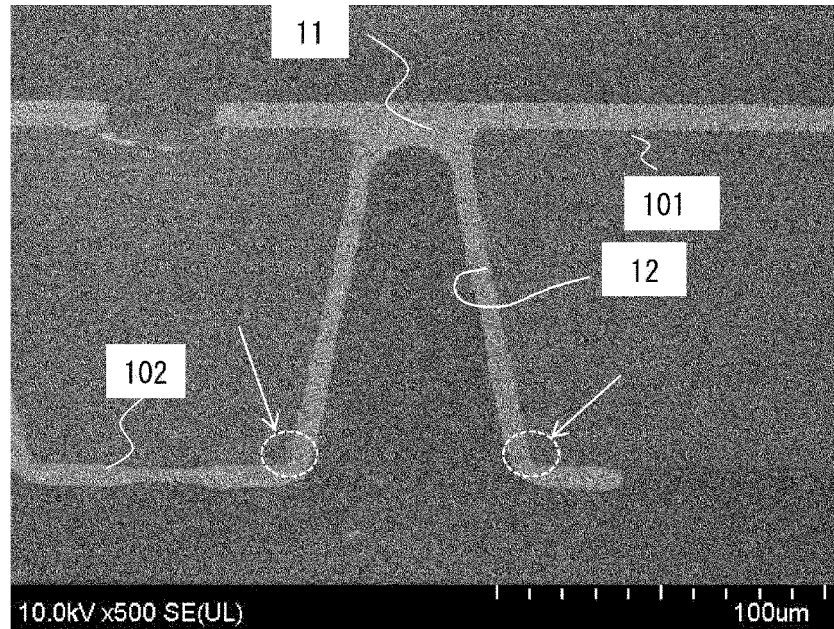
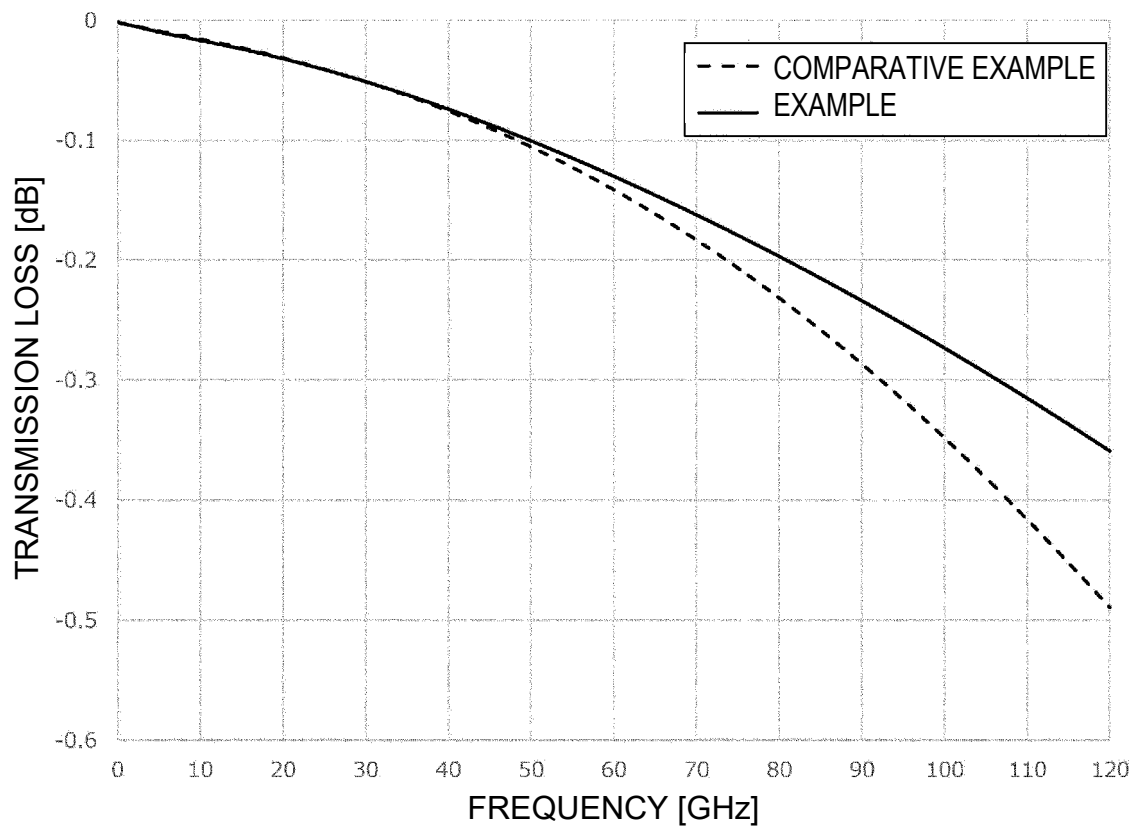


FIG. 96



55/60
FIG. 97

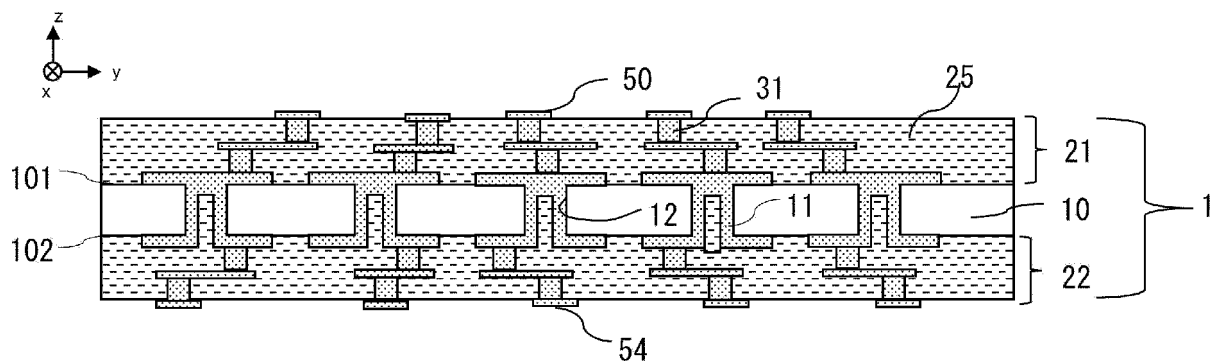


FIG. 98

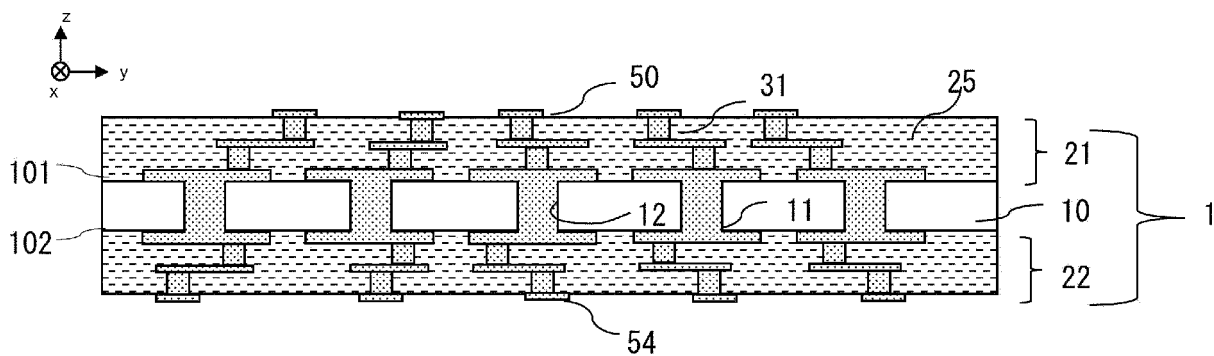
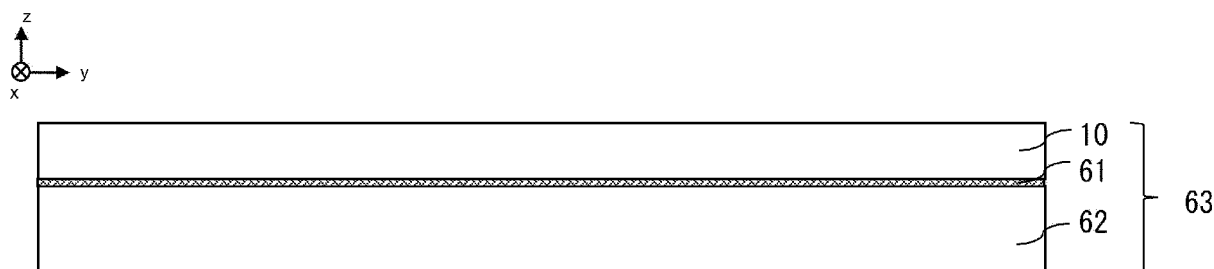


FIG. 99



56/60
FIG. 100

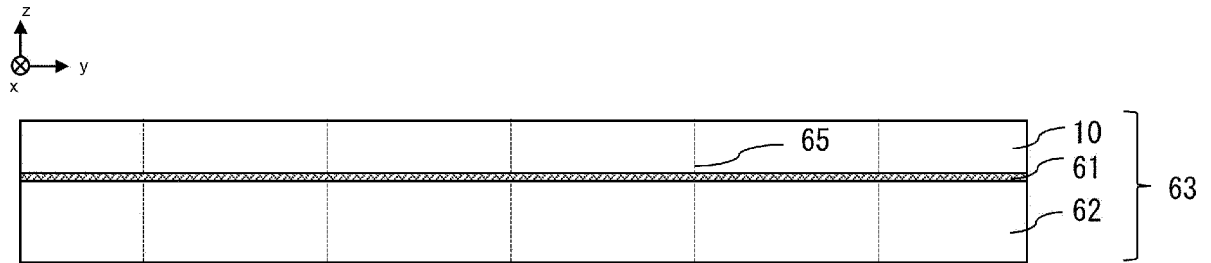


FIG. 101

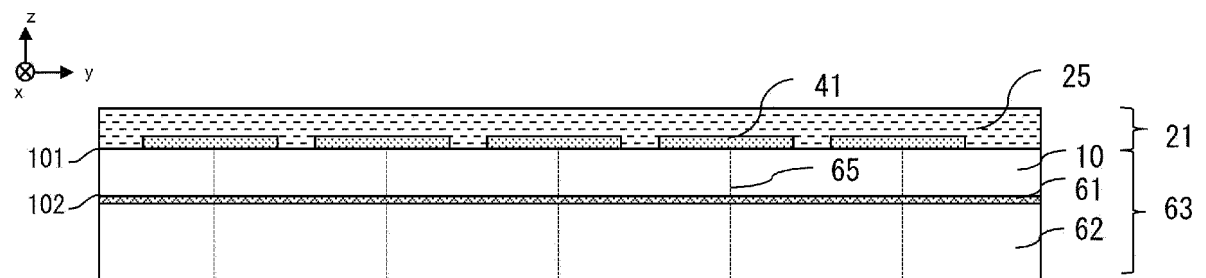
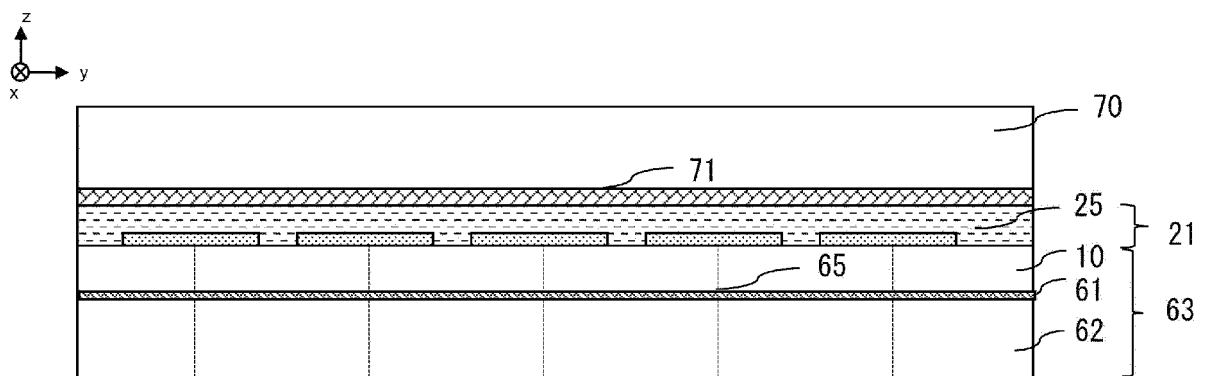


FIG. 102



57/60
FIG. 103

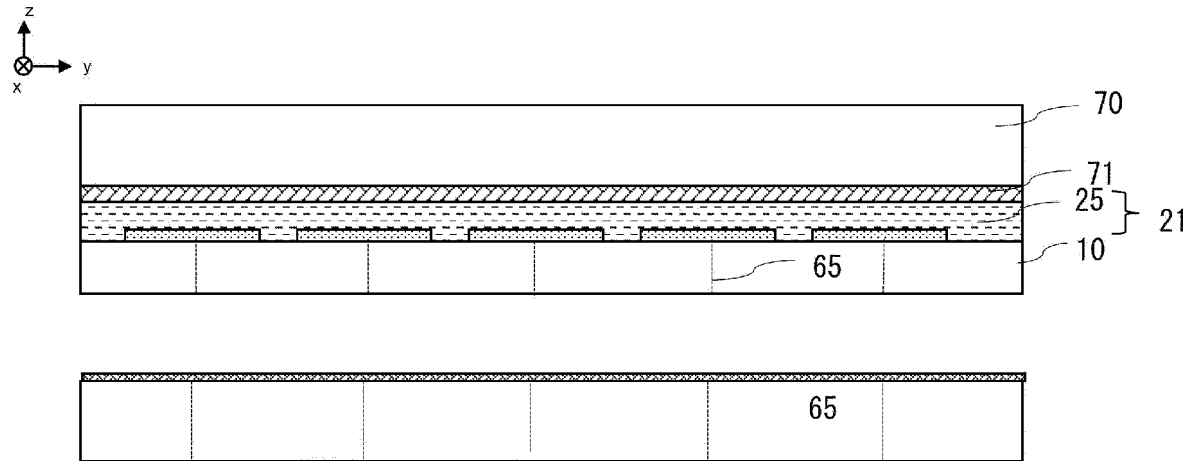


FIG. 104

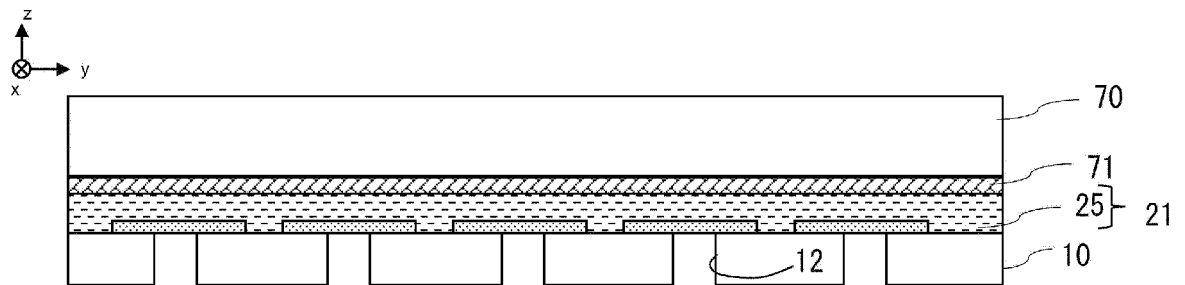


FIG. 105

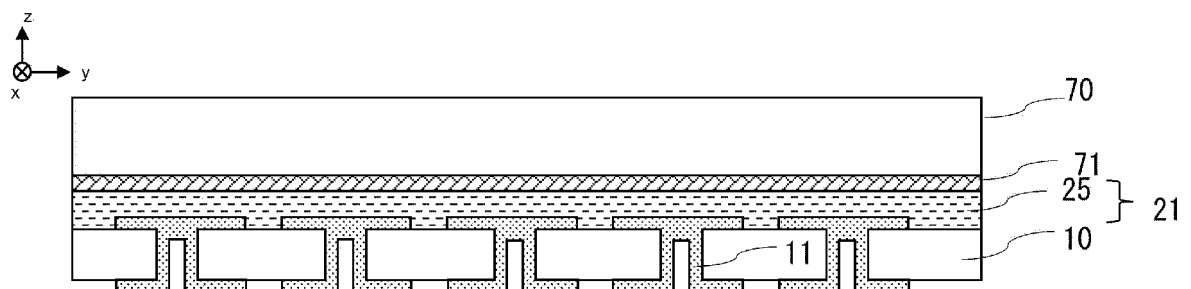


FIG. 106

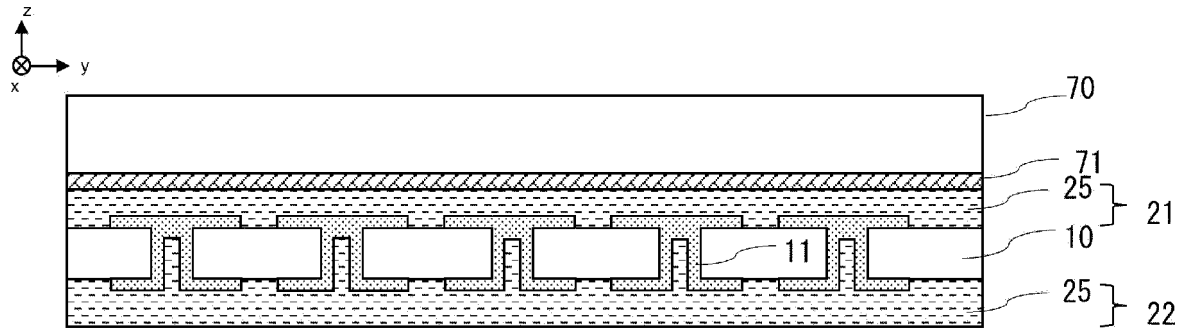


FIG. 107

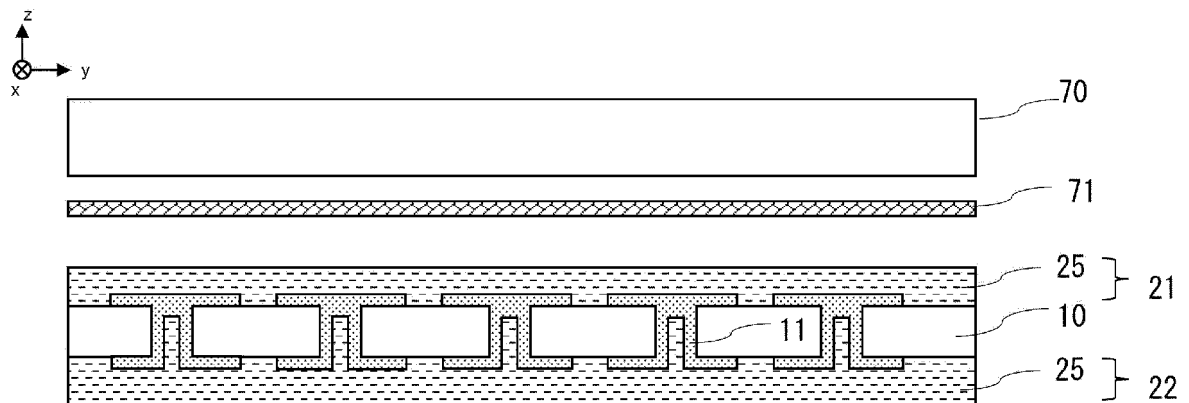
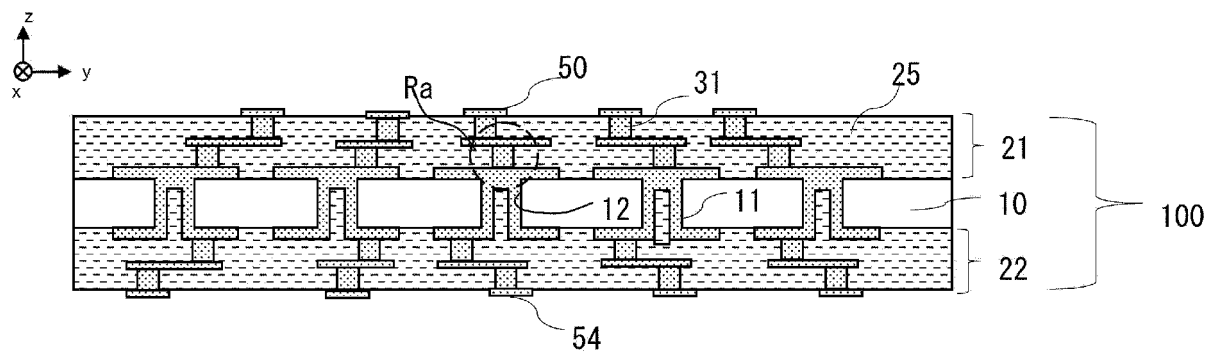


FIG. 108



59/60

FIG. 109

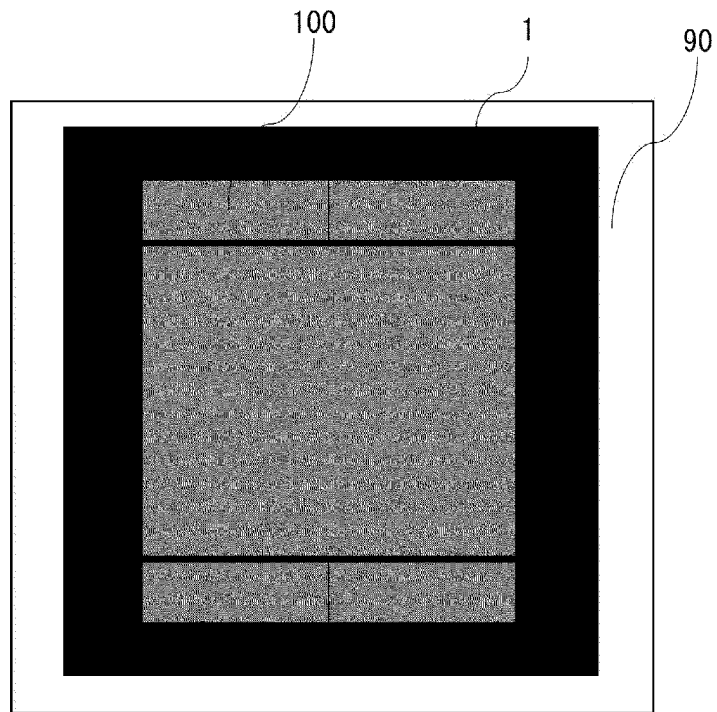


FIG. 110

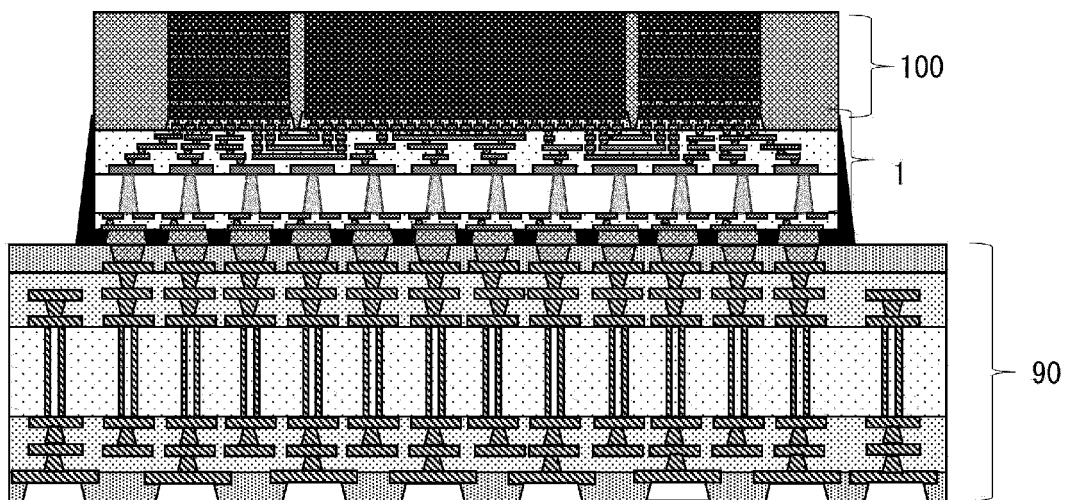


FIG. 111

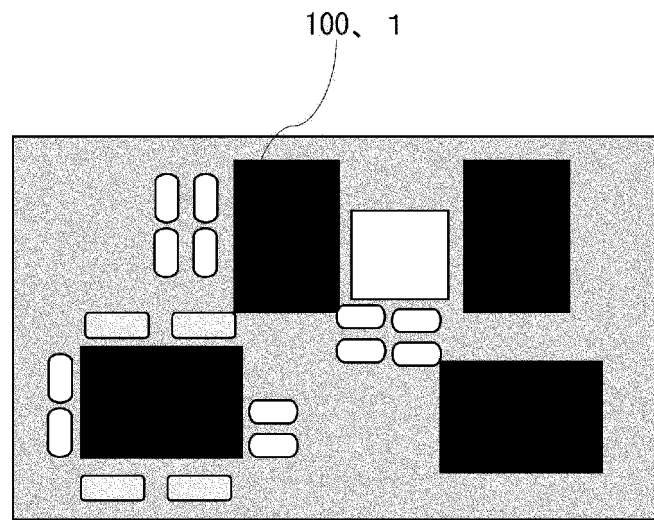


FIG. 112

