Drawings

Fig. 1

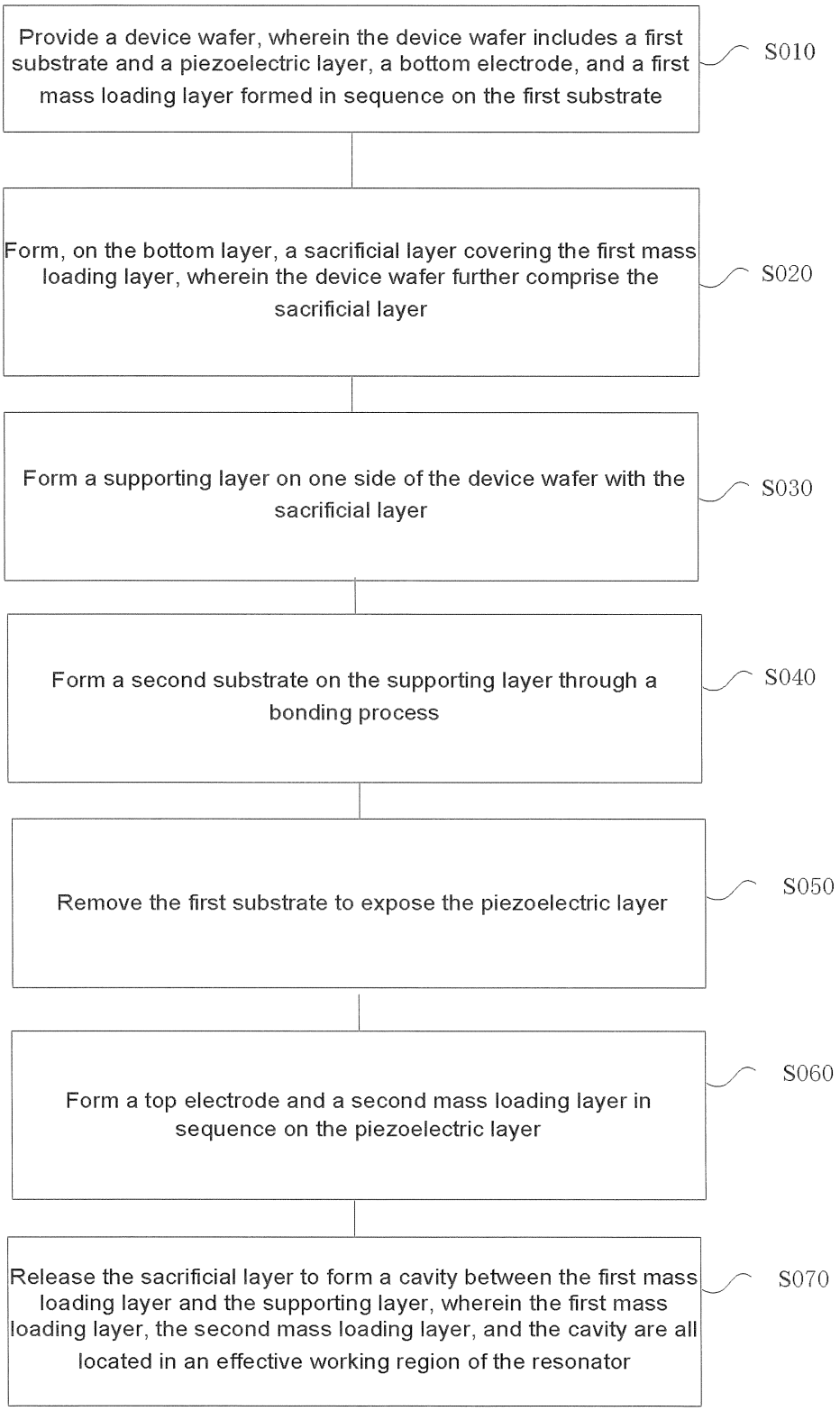


Fig. 2

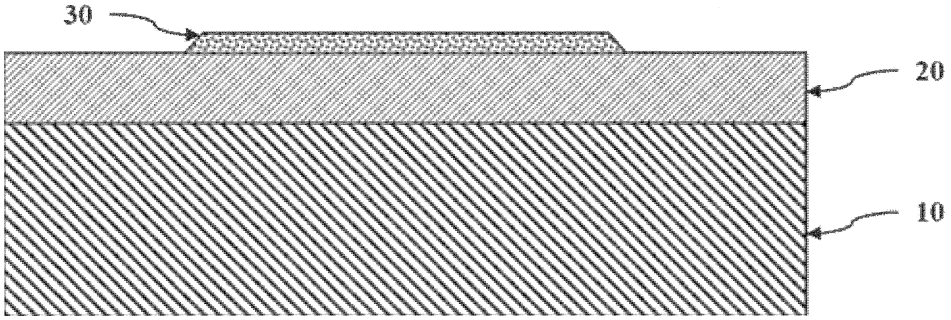


Fig. 3

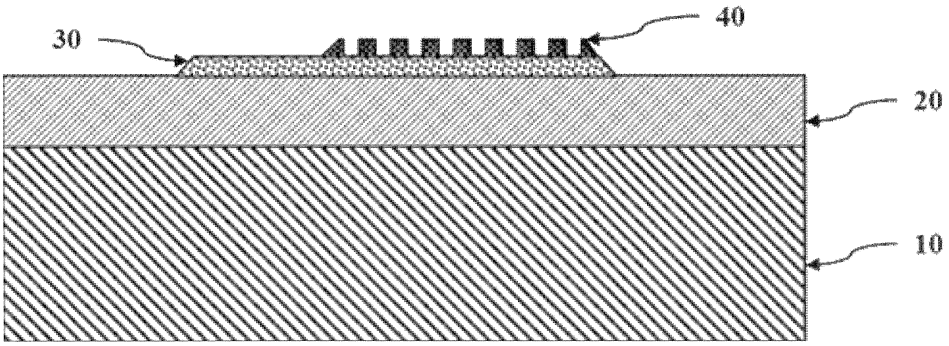


Fig. 4

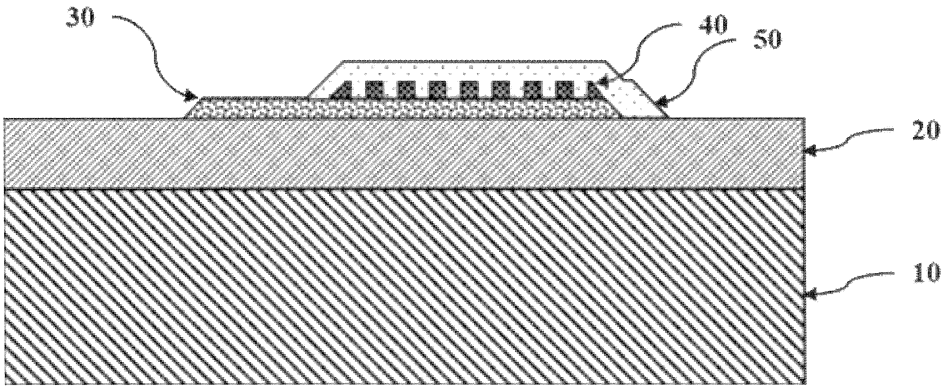


Fig. 5

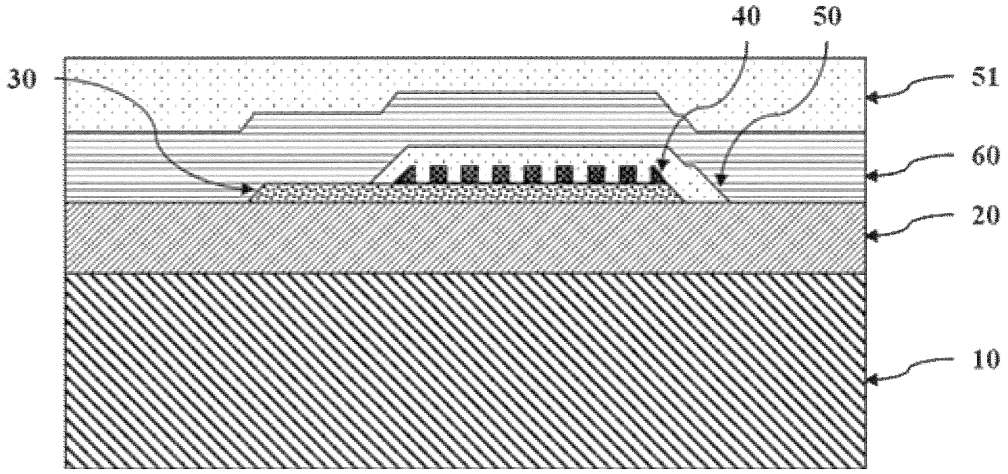


Fig. 6

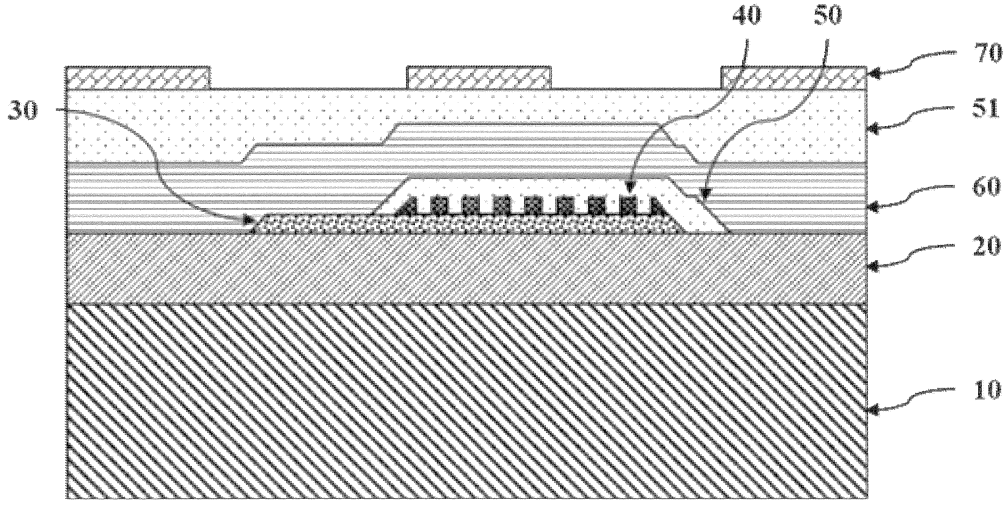


Fig. 7

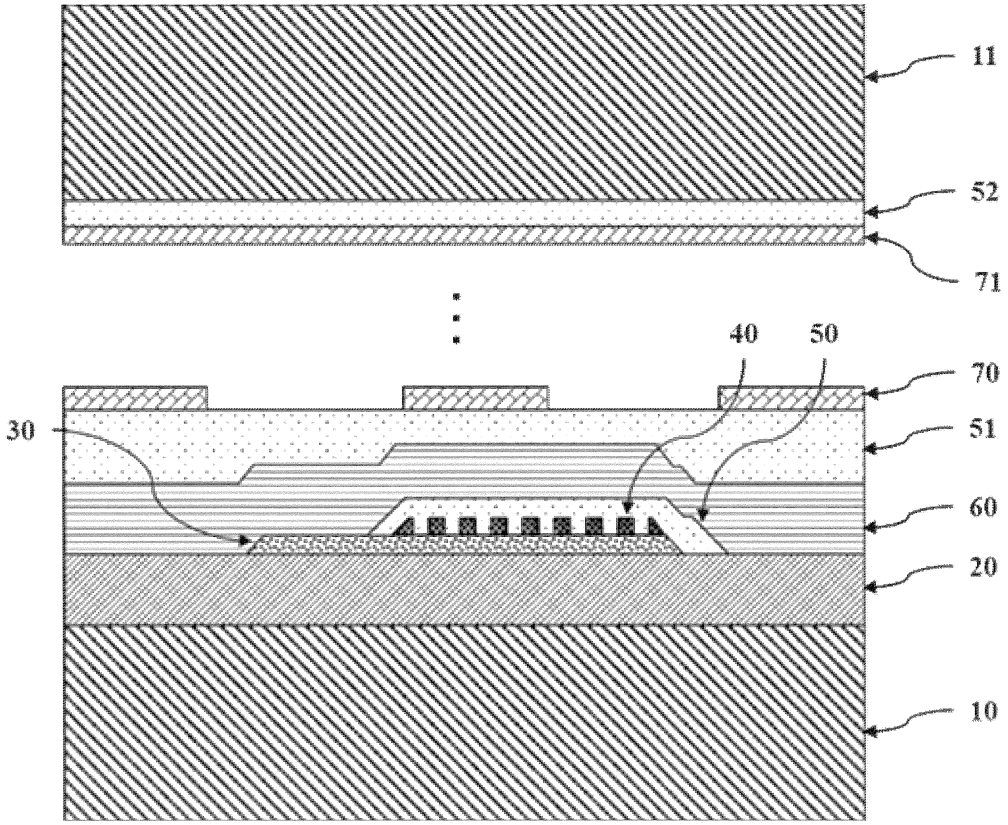


Fig. 8

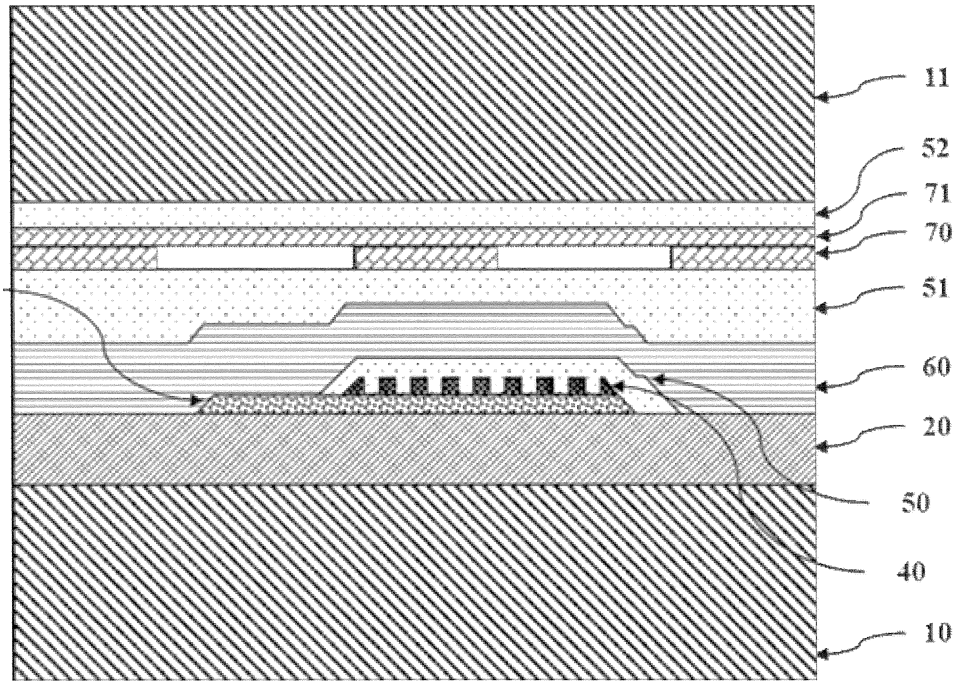


Fig. 9

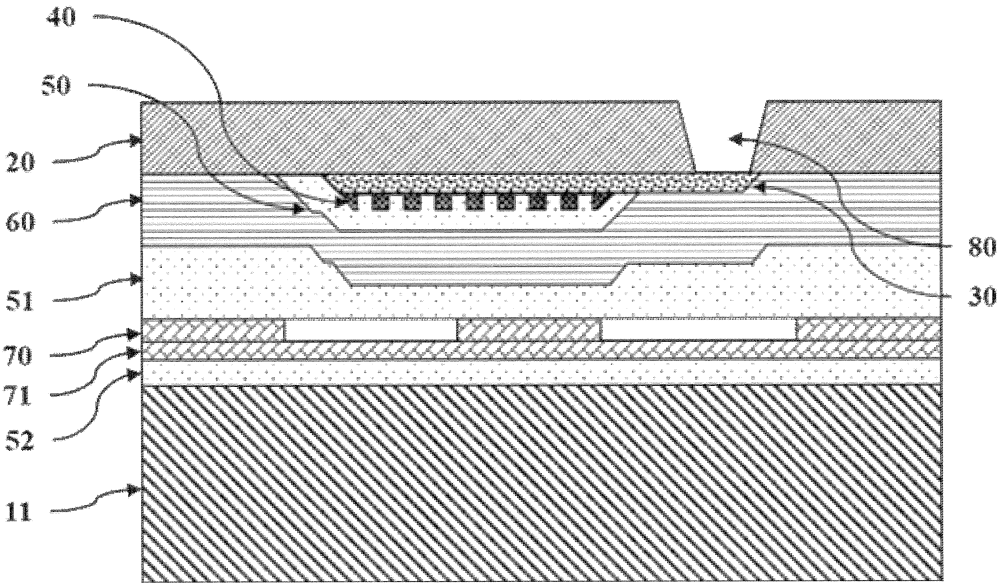


Fig. 10

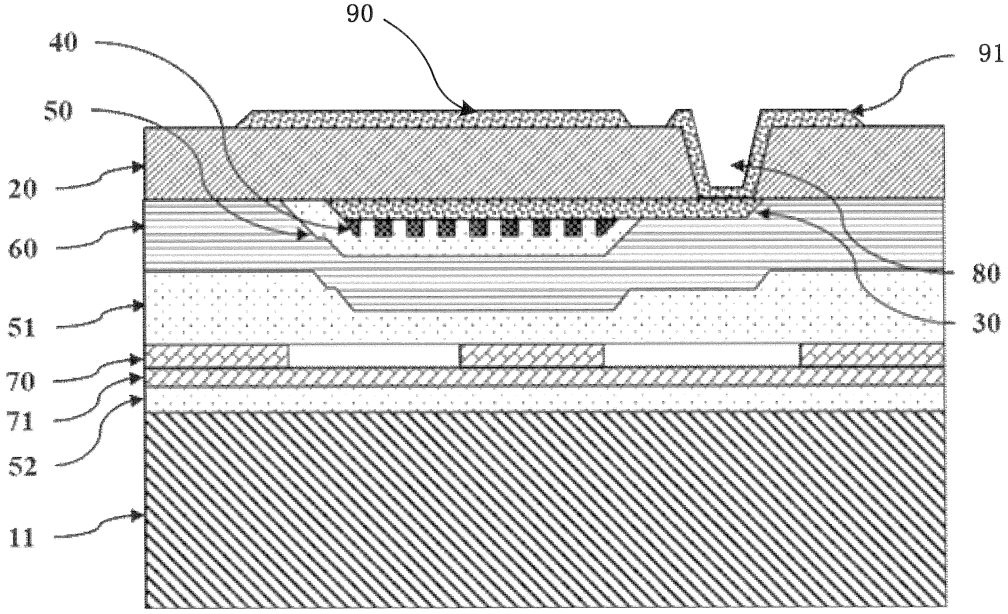


Fig.11

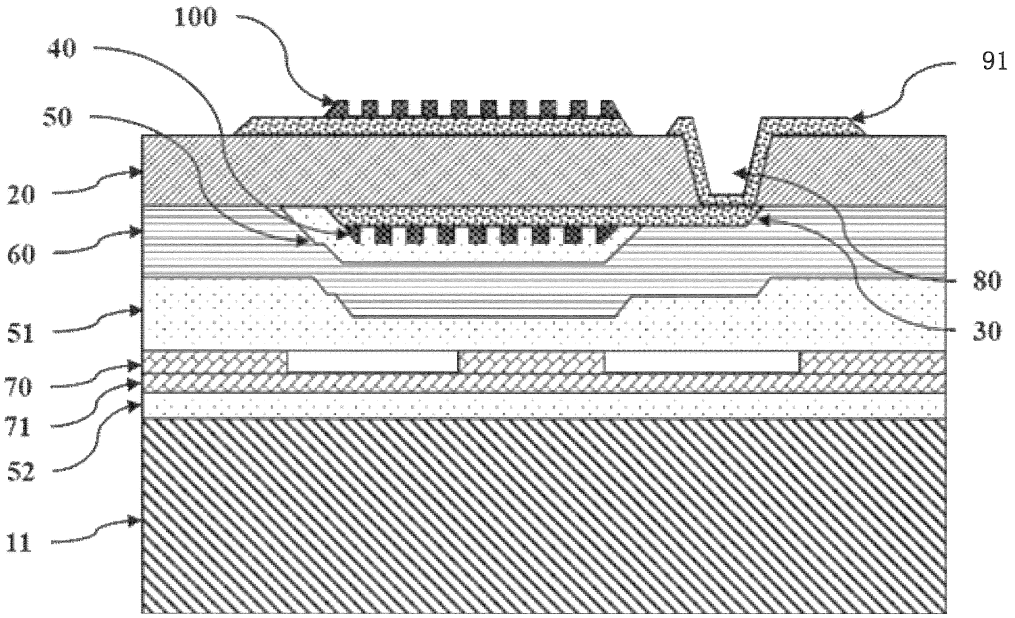

100
40
50
91
20
60
80
30
51
70
71
52
11

Fig. 12

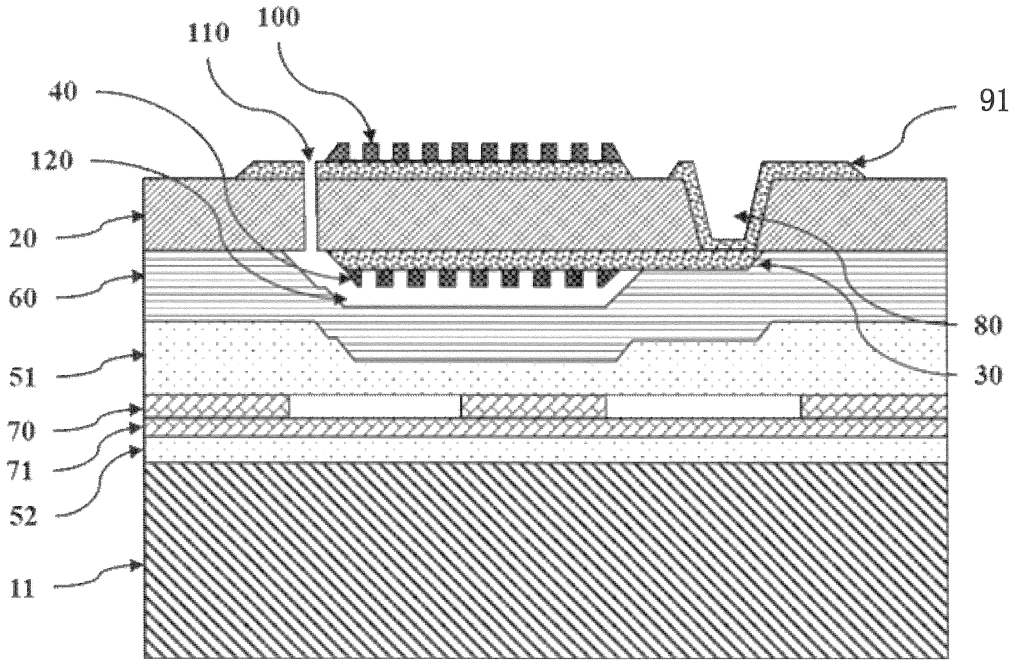

110
100
40
91
120
20
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71
52
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Fig. 13

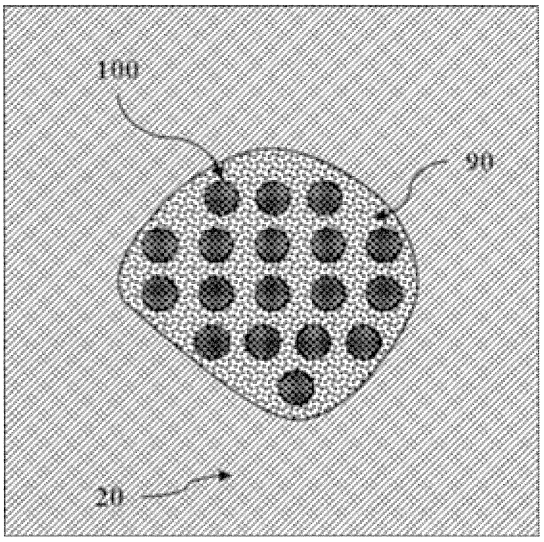


Fig. 14

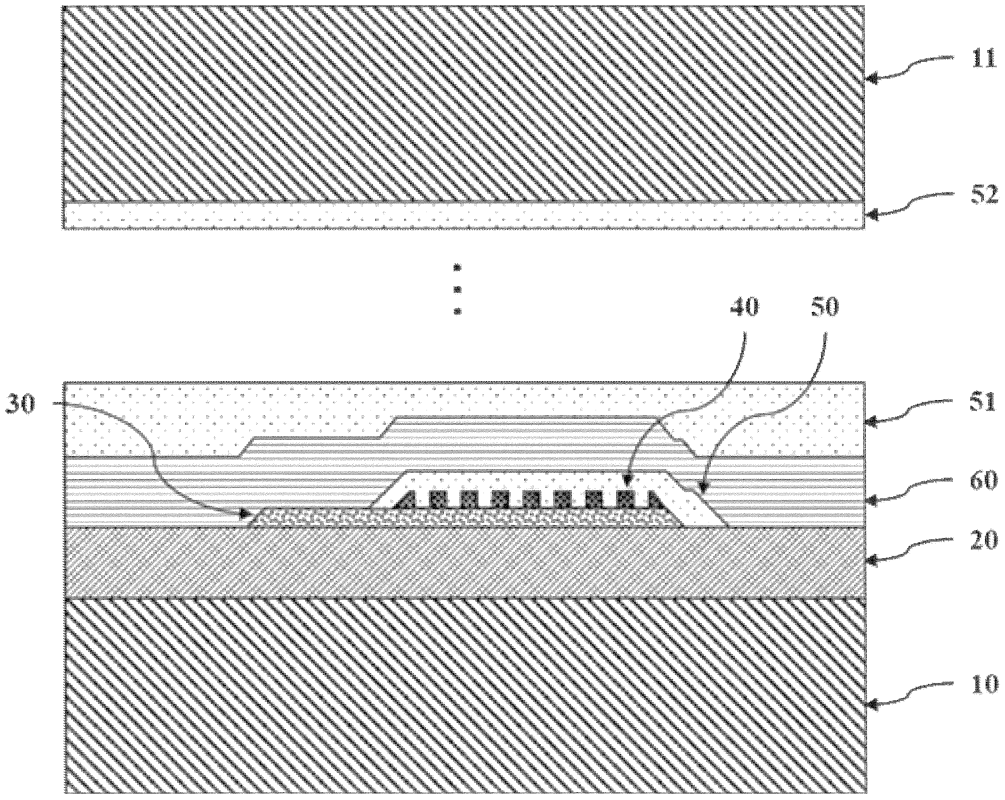


Fig. 15

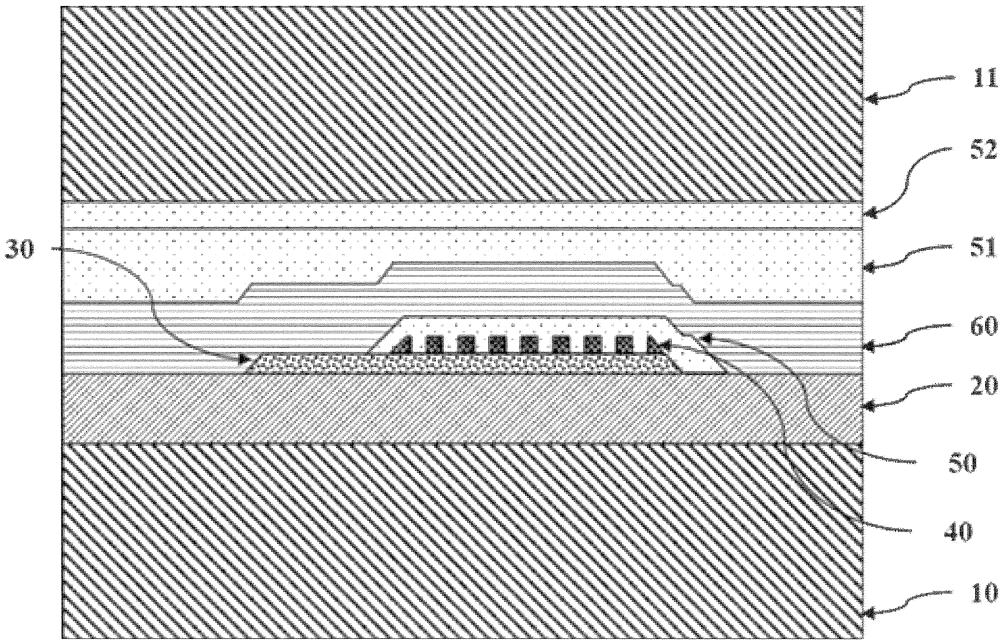


Fig. 16

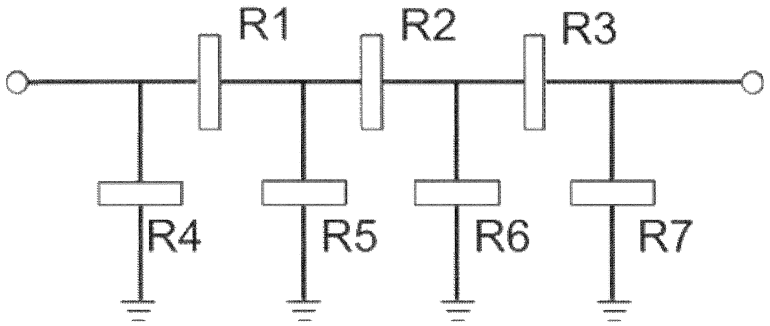


Fig. 17

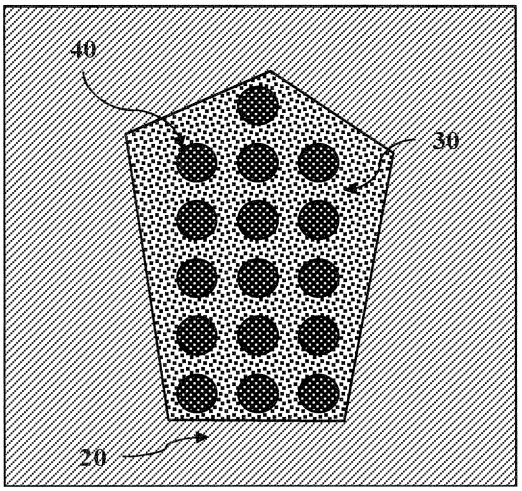


Fig. 18

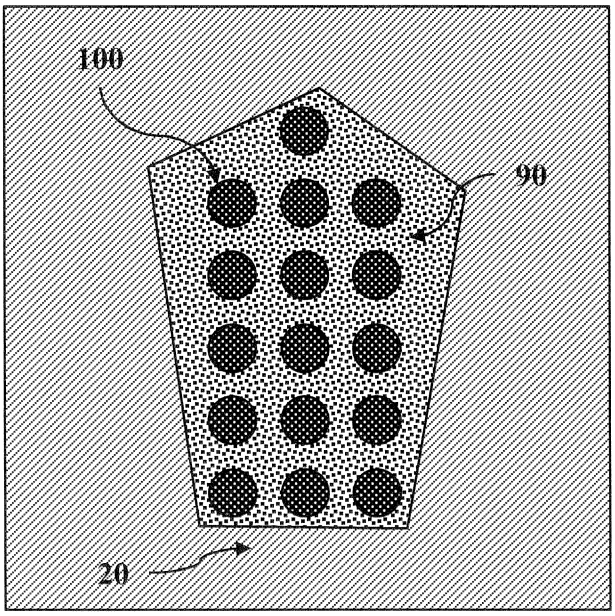


Fig. 19

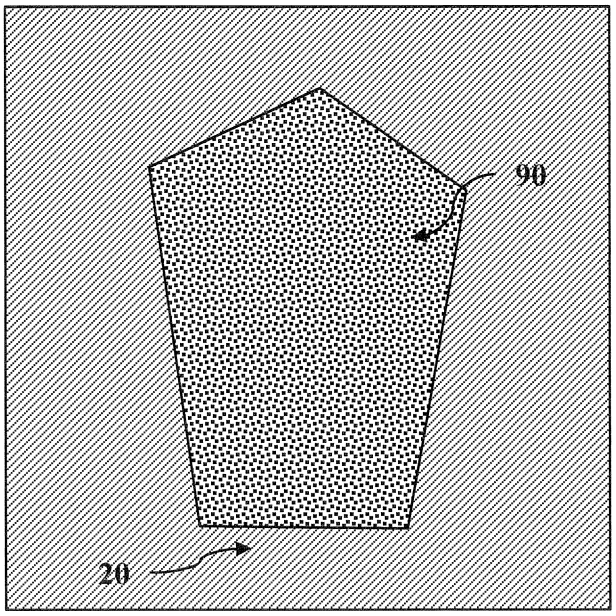


Fig. 20

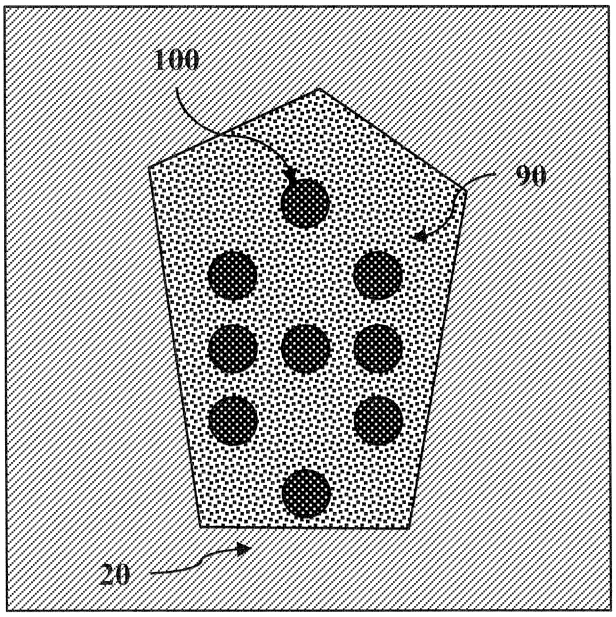
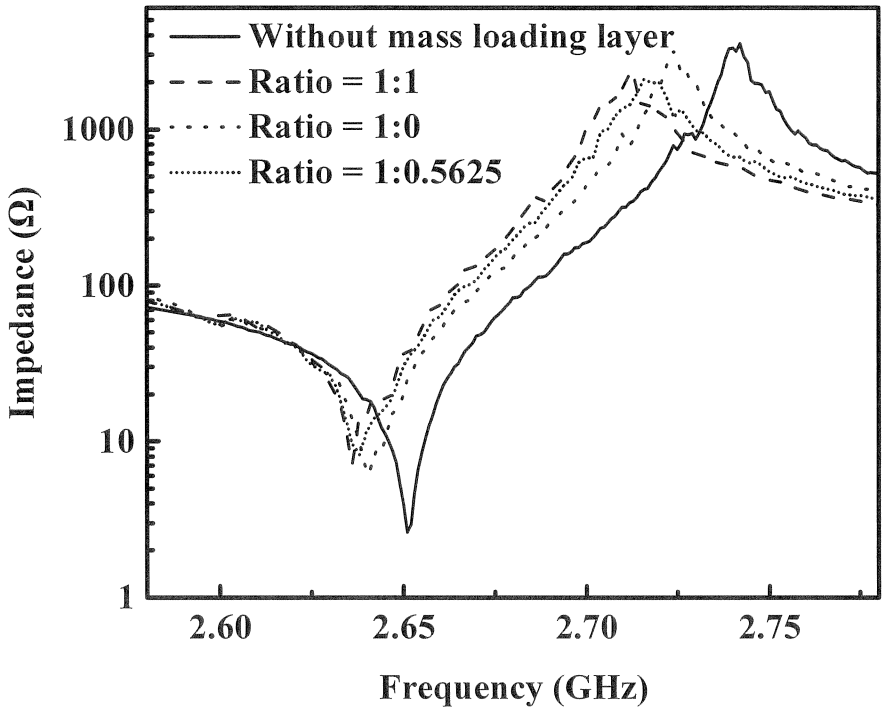


Fig. 21


Without mass loading layer
Ratio = 1:1
Ratio = 1:0
Ratio = 1:0.5625
Impedance (Ω)
1000
100
10
1
2.60
2.65
2.70
2.75
Frequency (GHz)