Fig. 1

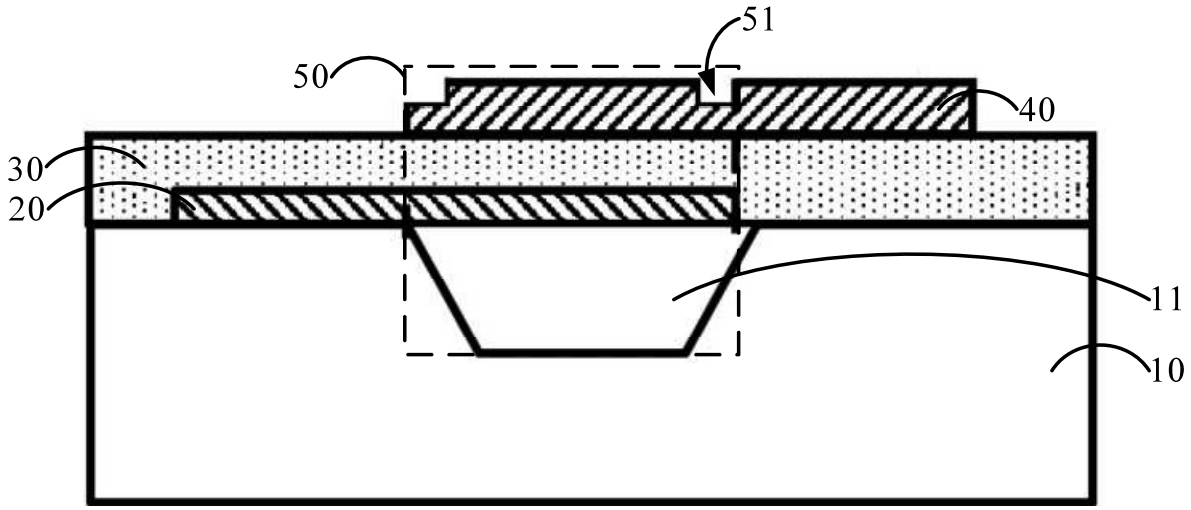


Fig. 2

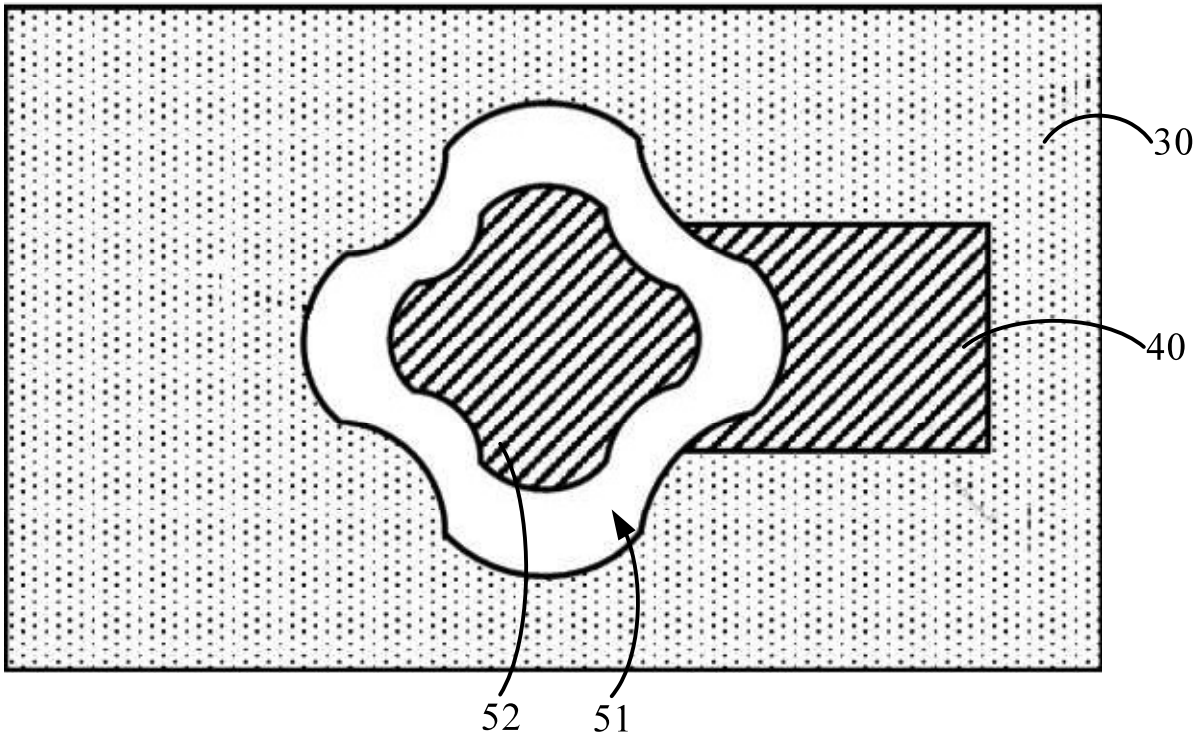


Fig.3

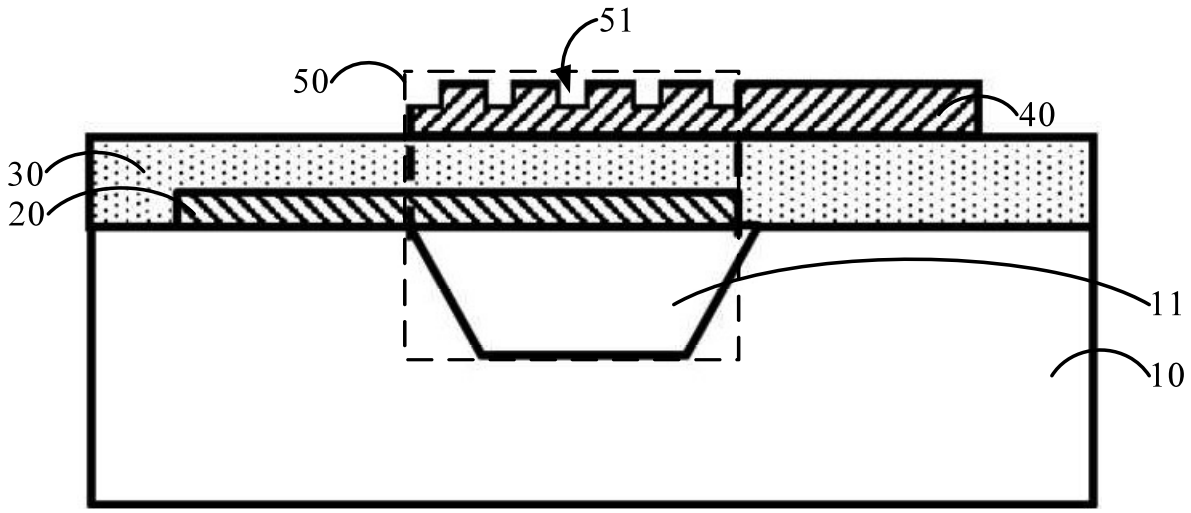


Fig.4

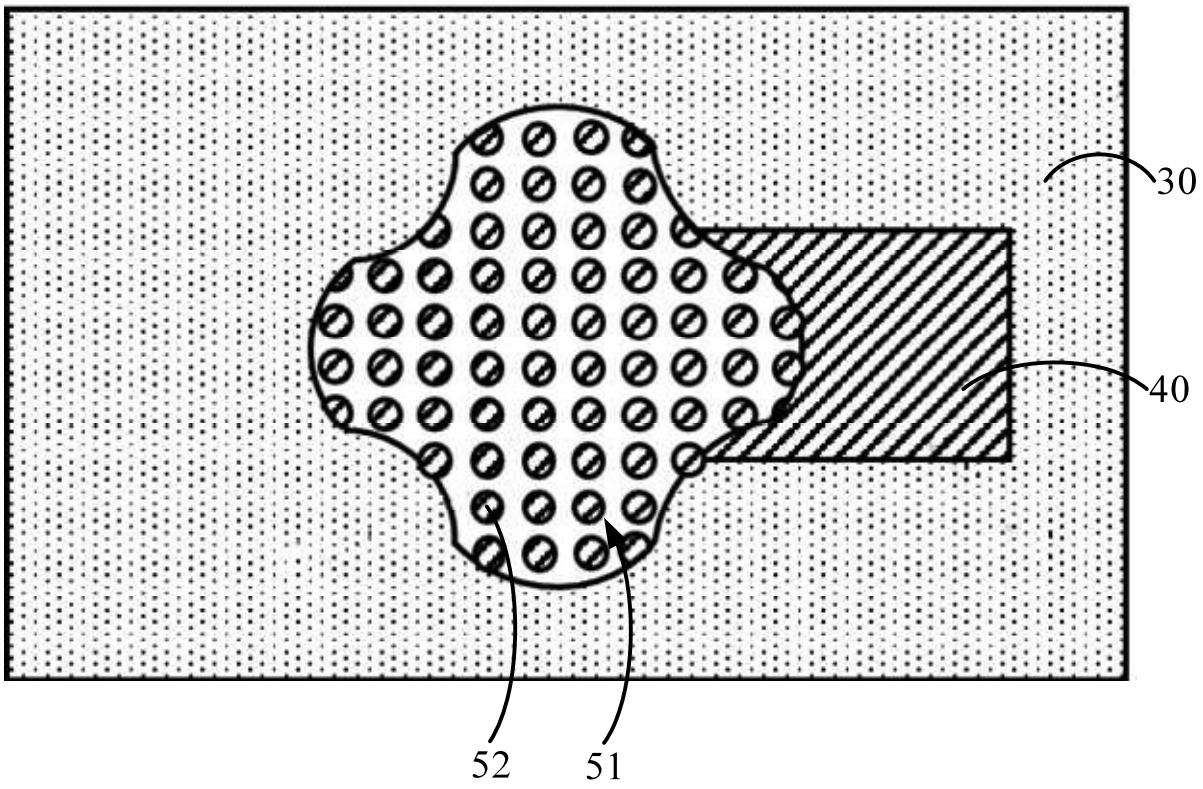


Fig.5

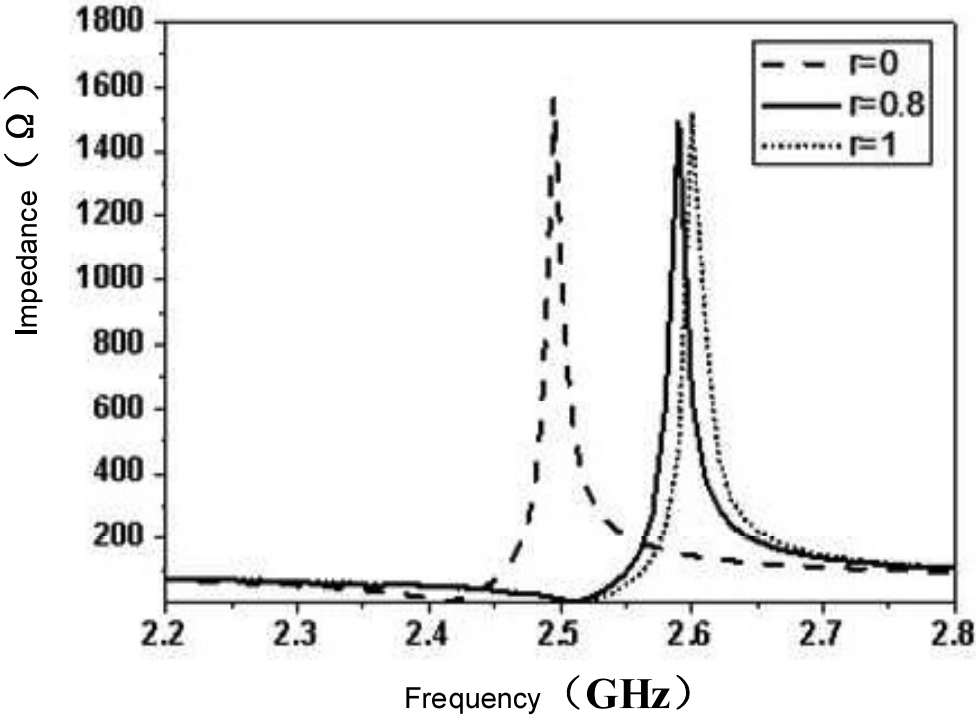

1800
1600
1400
1200
1000
800
600
400
200
Impedance（Ω）
r=0
r=0.8
r=1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
Frequency （GHz）

Fig.6

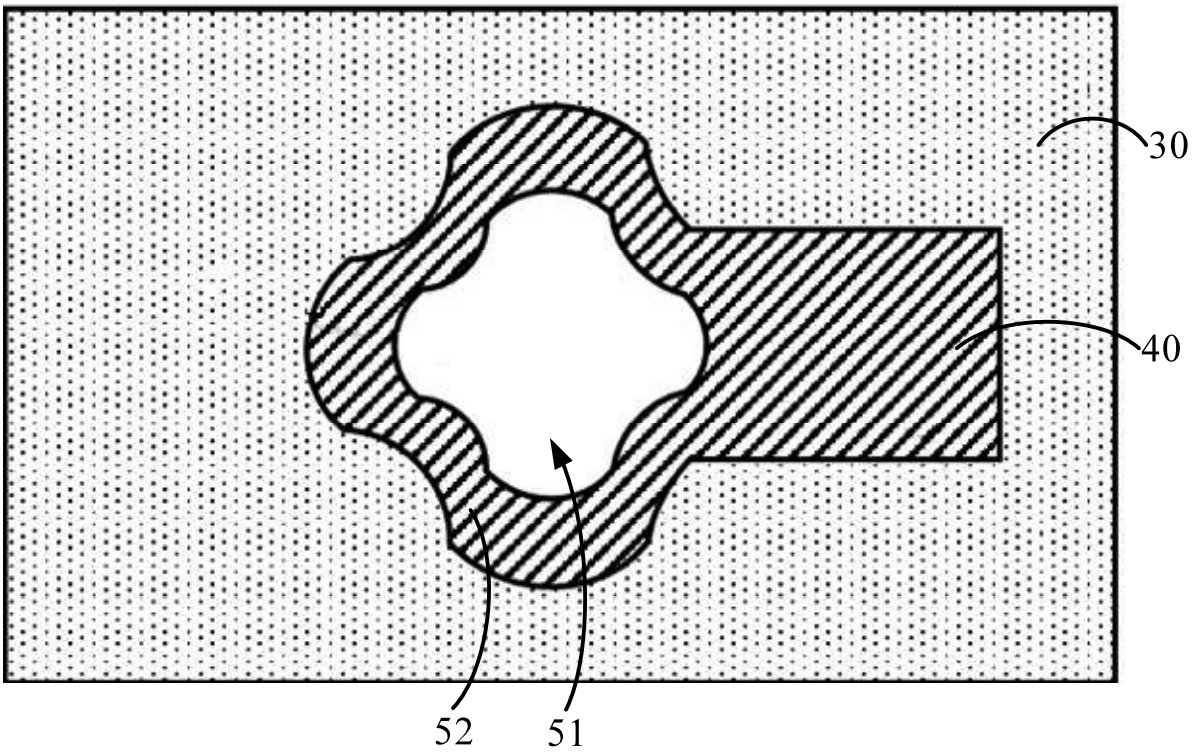

30
40
52
51

Fig.7

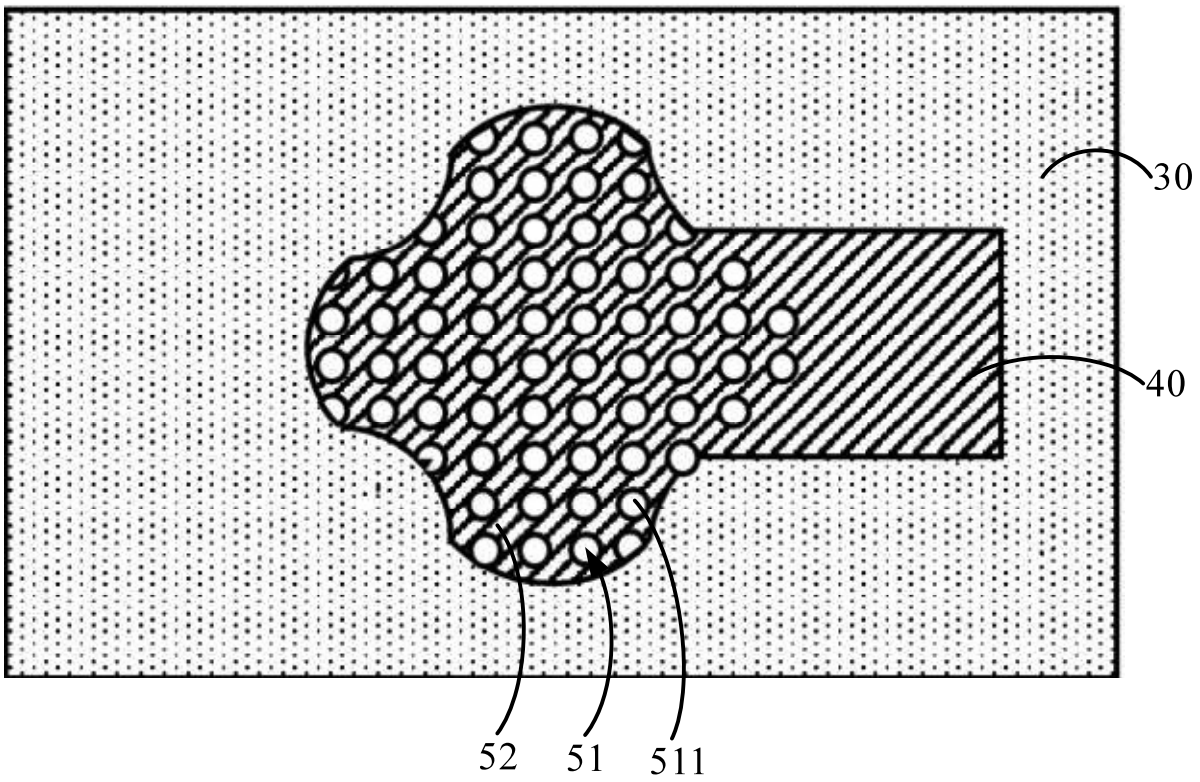


Fig.8

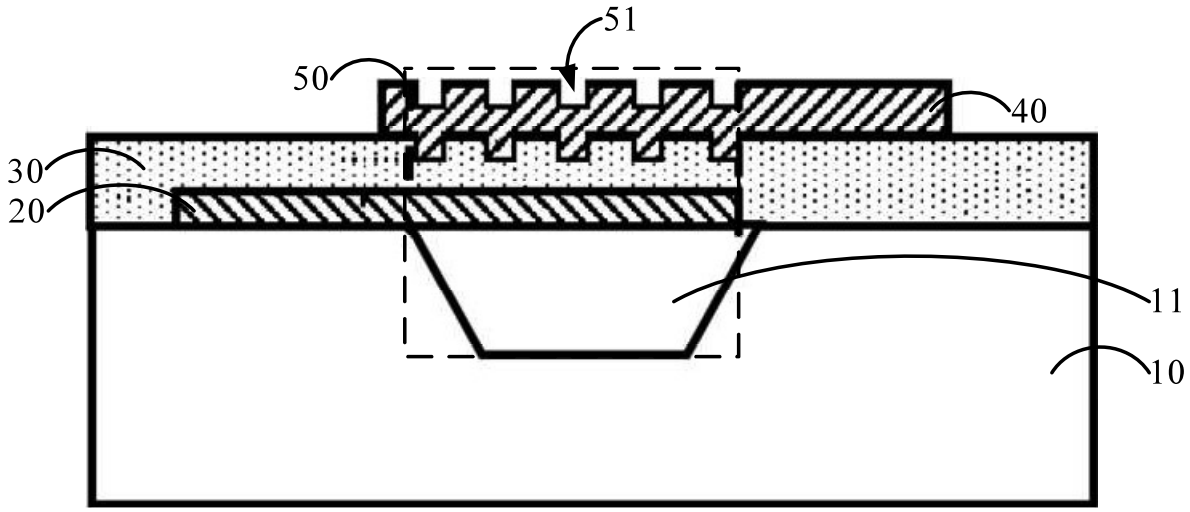


Fig.9

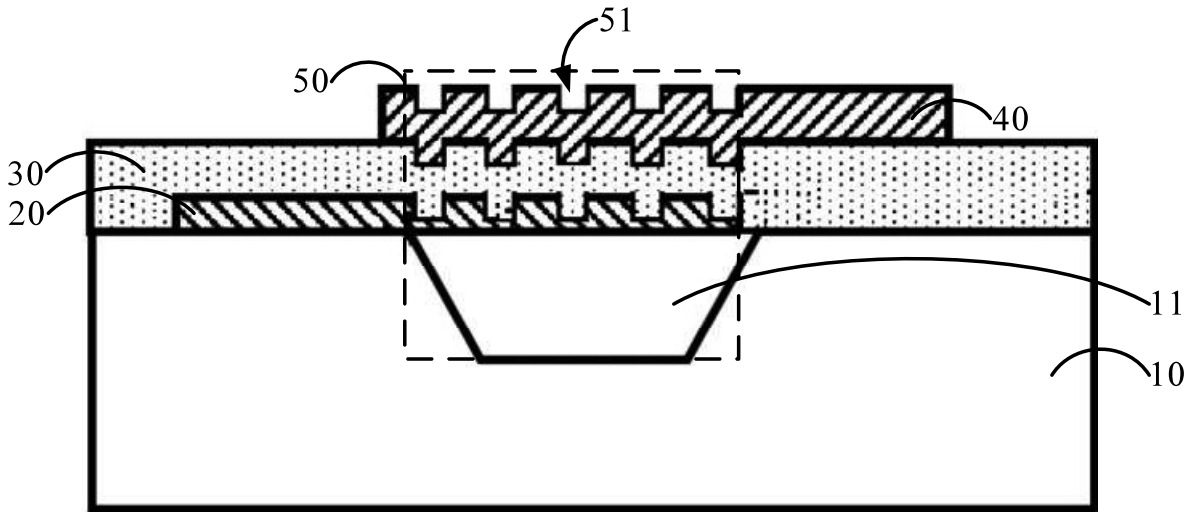


Fig.10

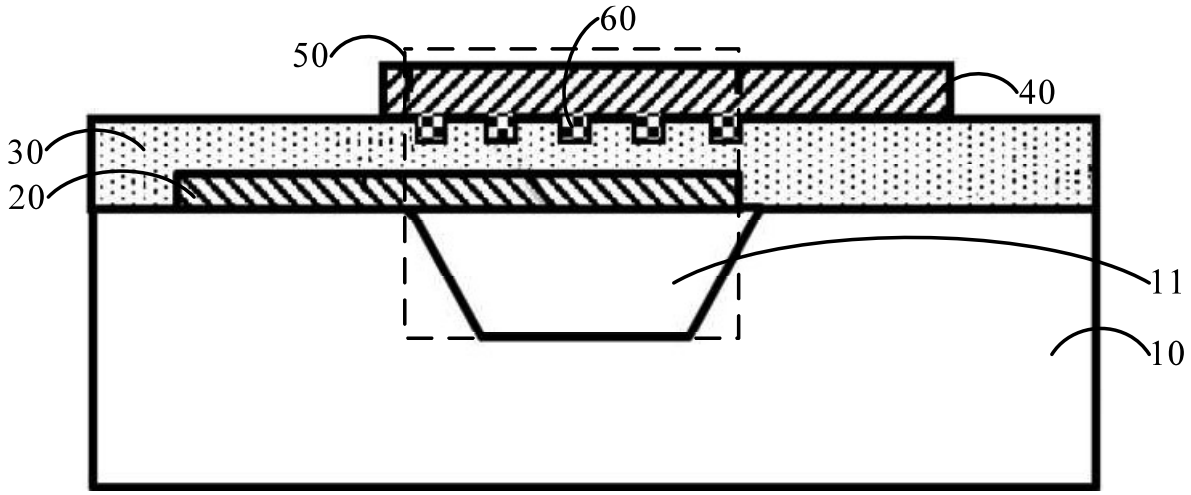


Fig.11

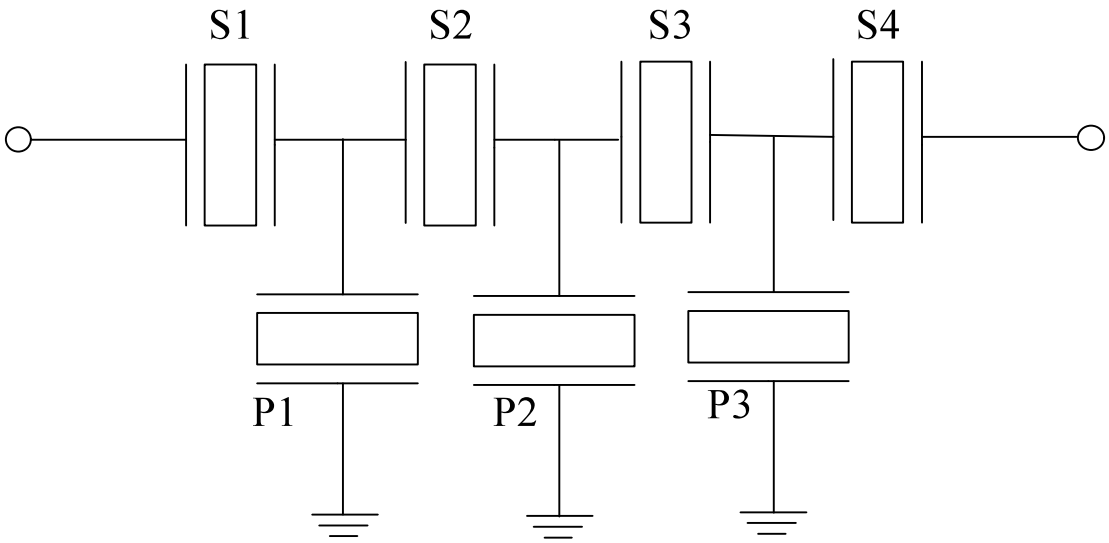


Fig.12

