

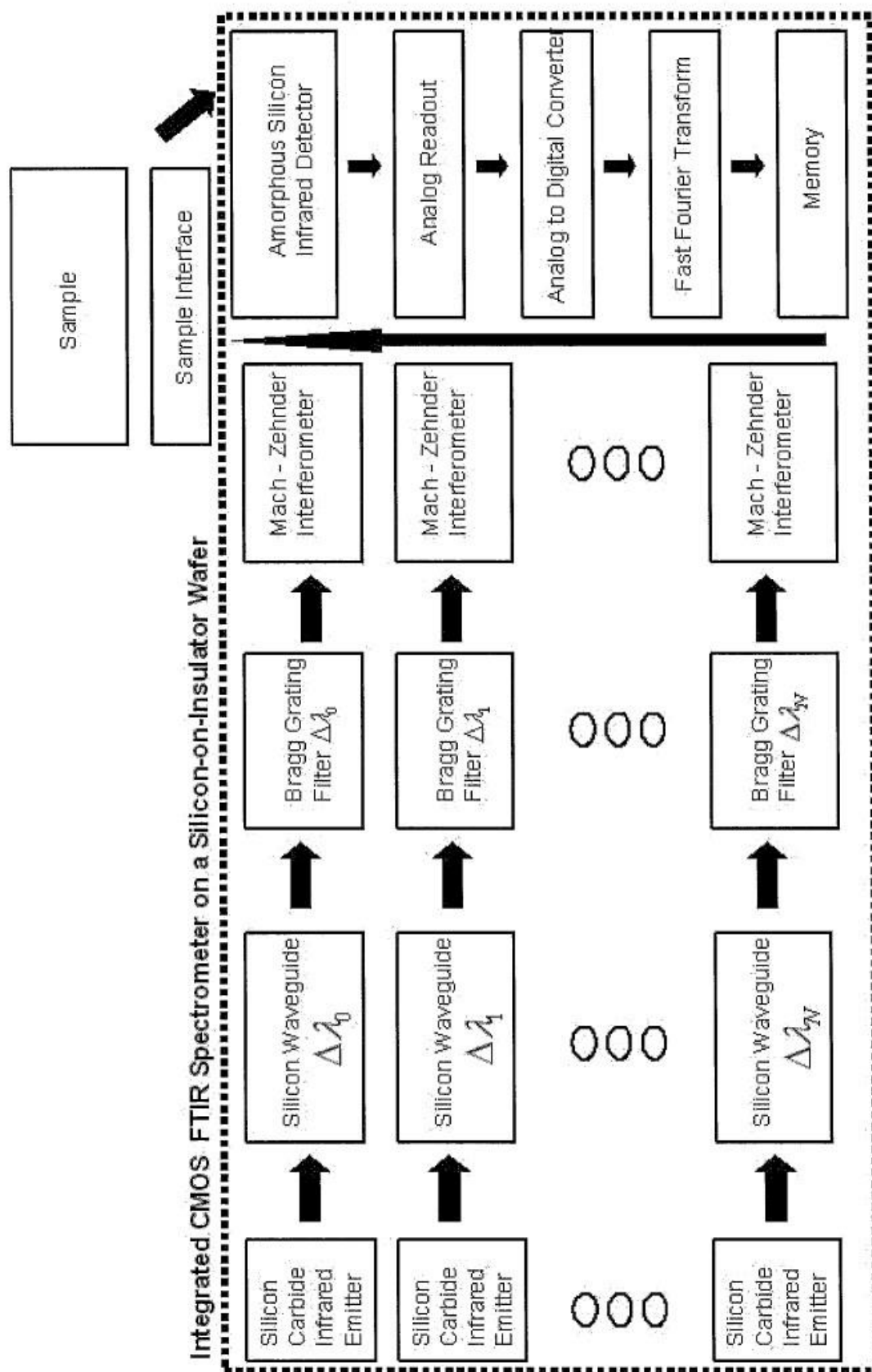


Figure 1

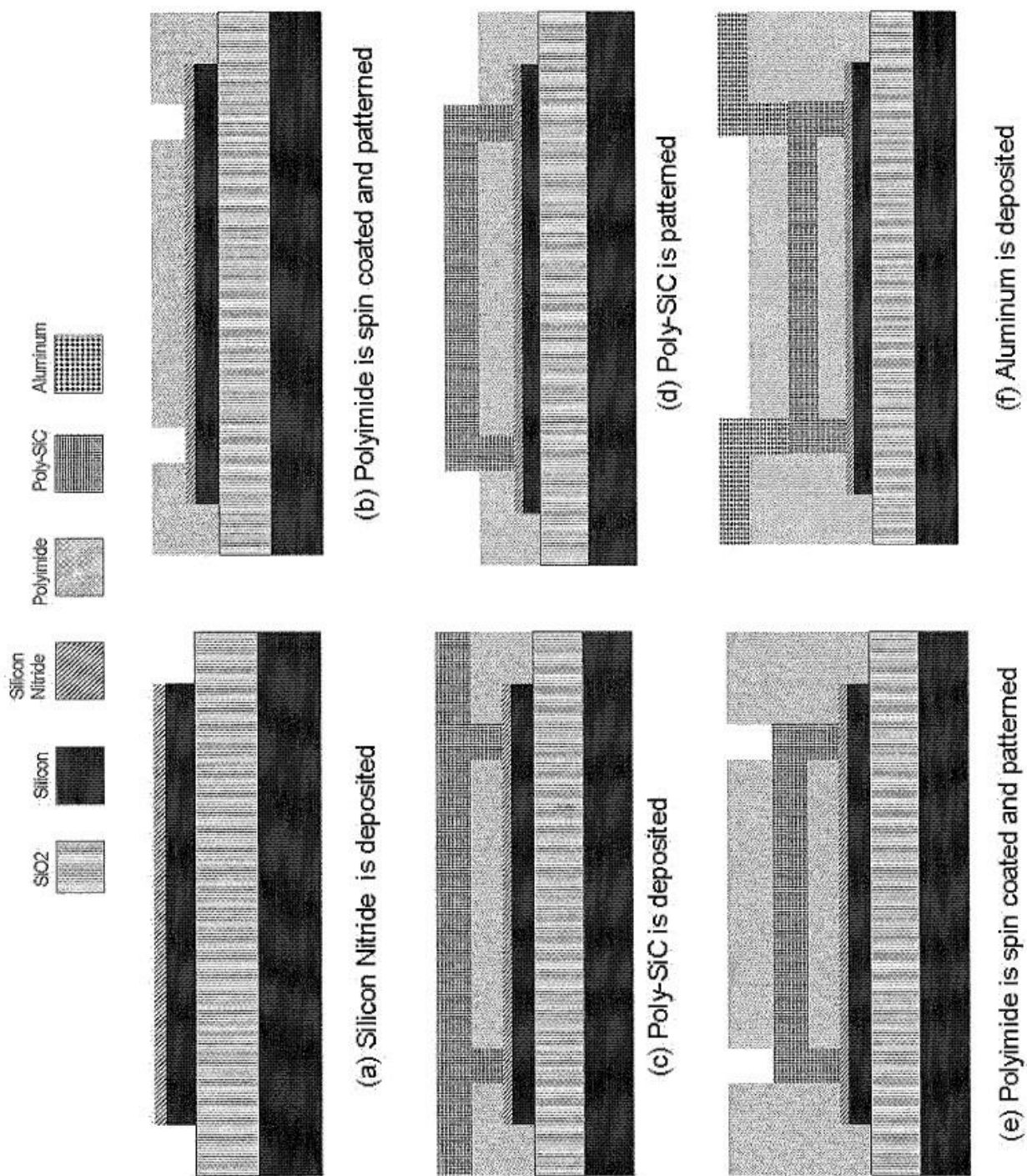
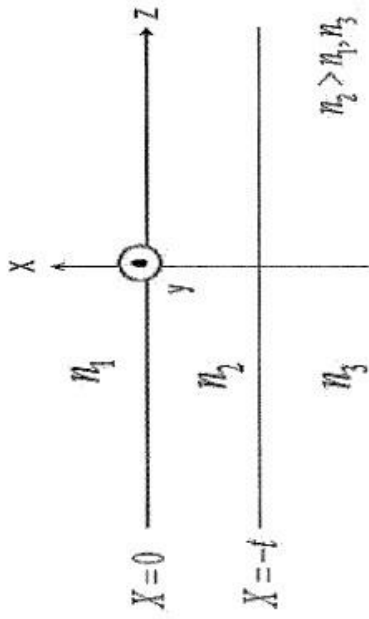
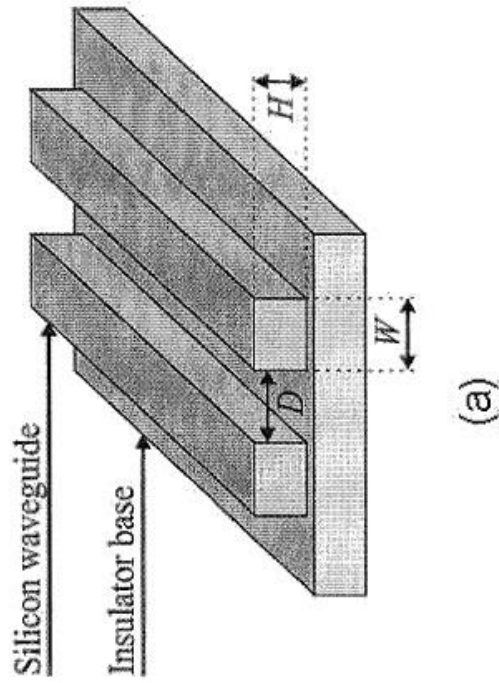
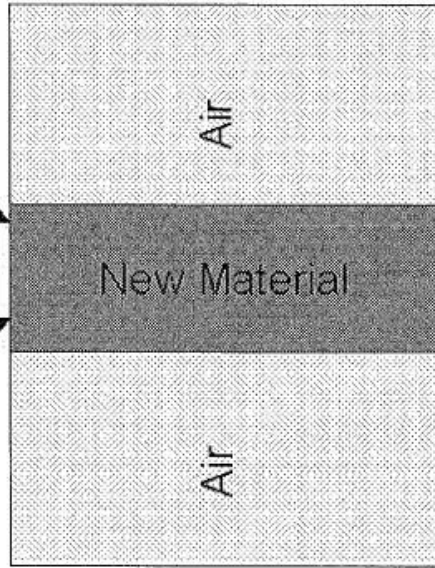


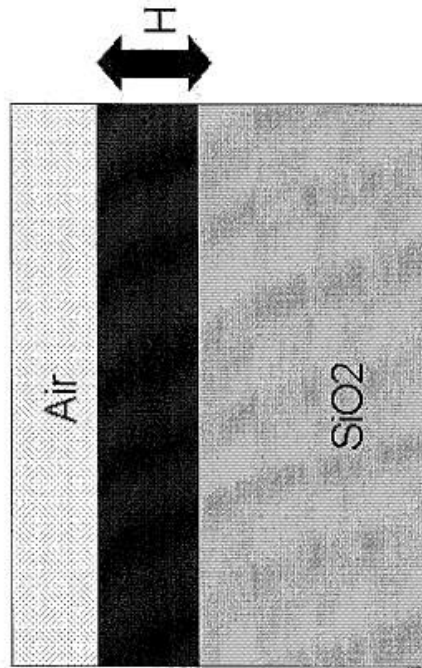
Figure 2



(b)



(c)

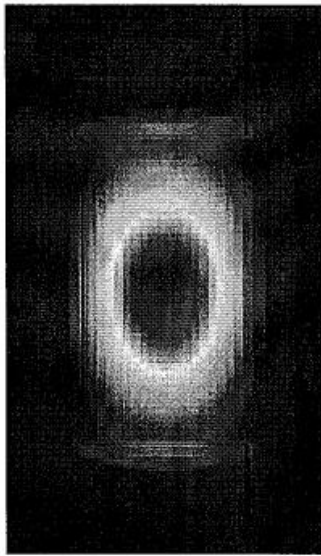


(d)

Solve Transverse Magnetic (TM)

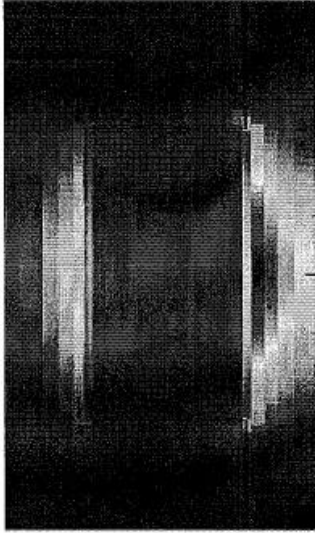
Solve Transverse Electric (TE)

Figure 3



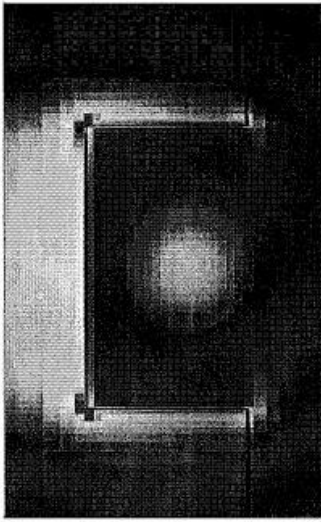
$n_{eff} = 2.6$

(a)



$n_{eff} = 1.9$

(b)



$n_{eff} = 1.7$

(c)

Figure 4

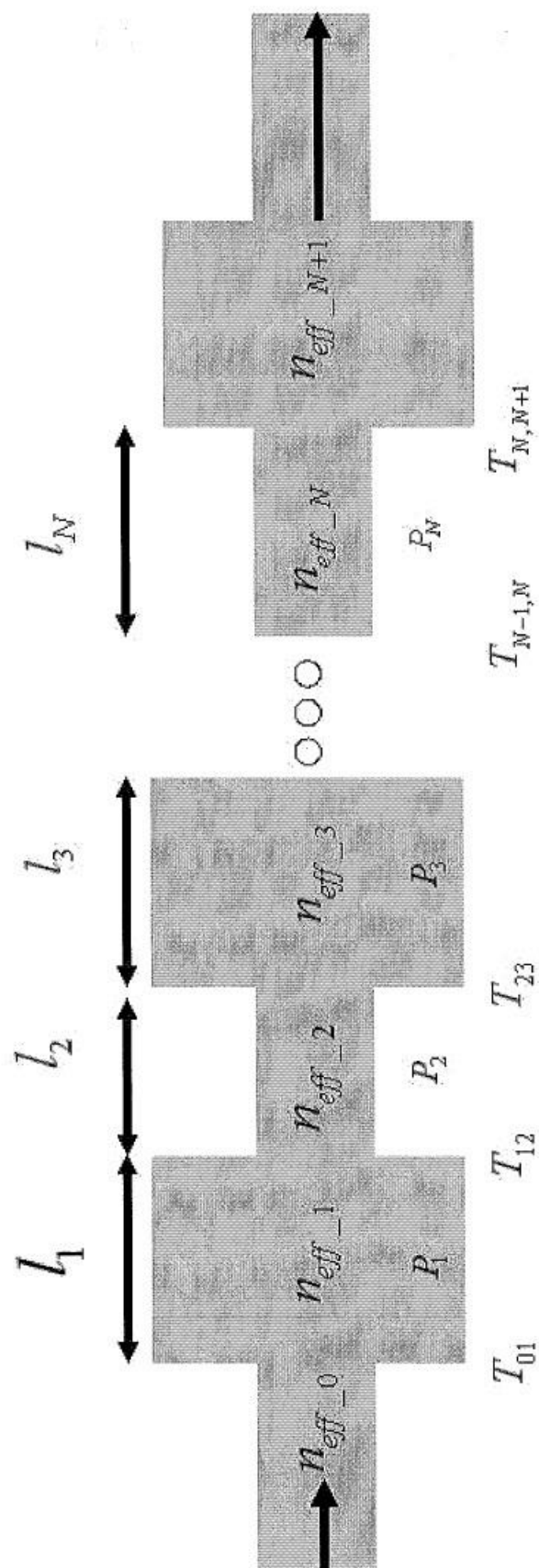


Figure 5

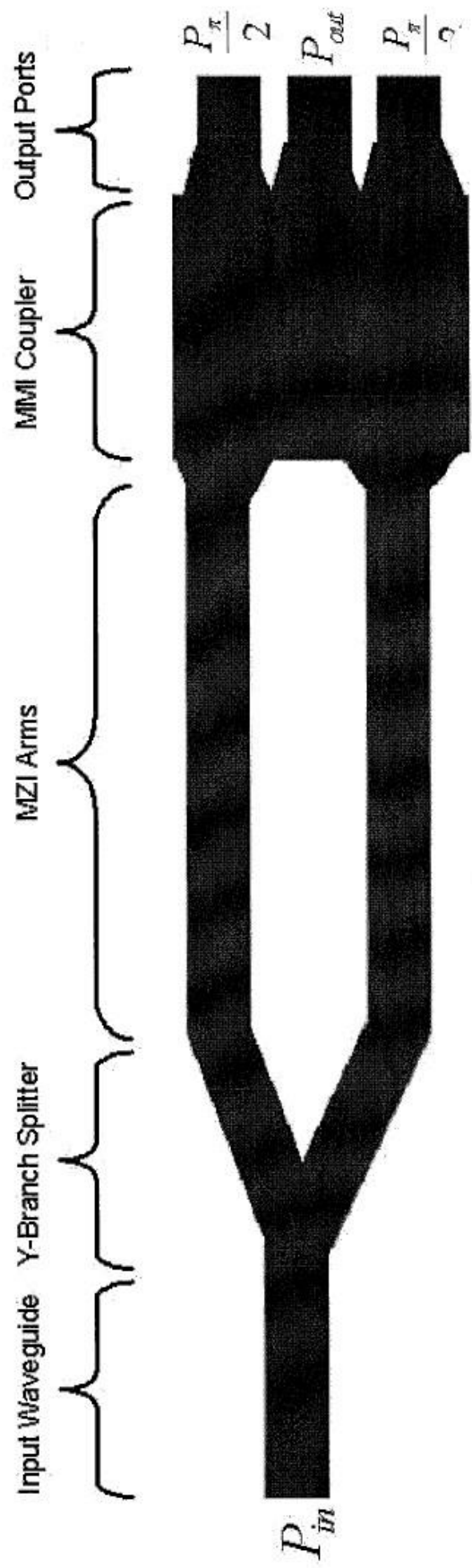


Figure 6a

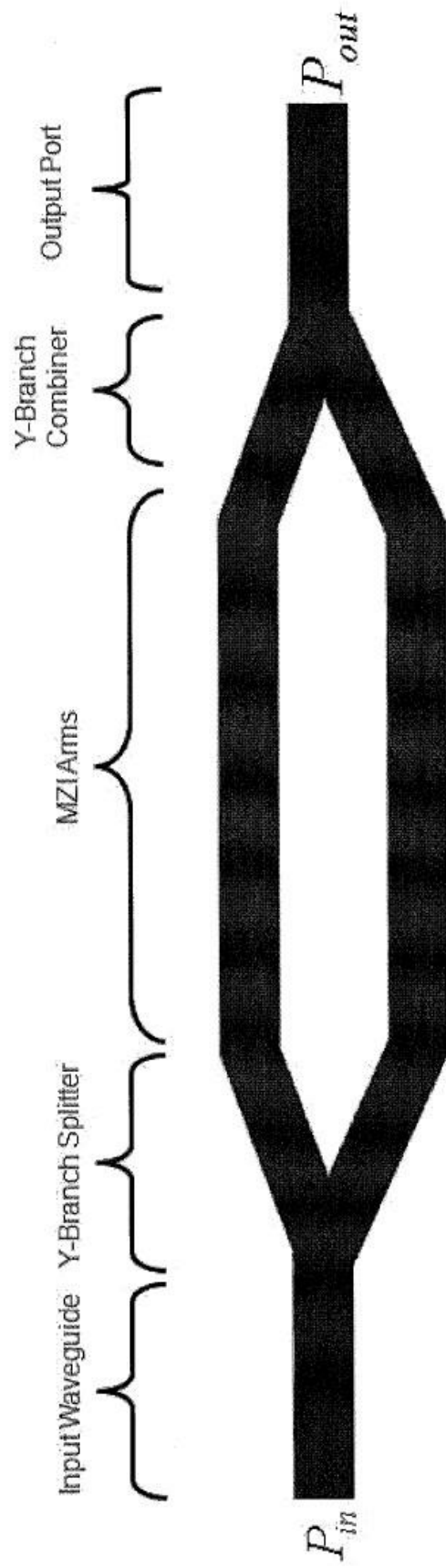


Figure 6b

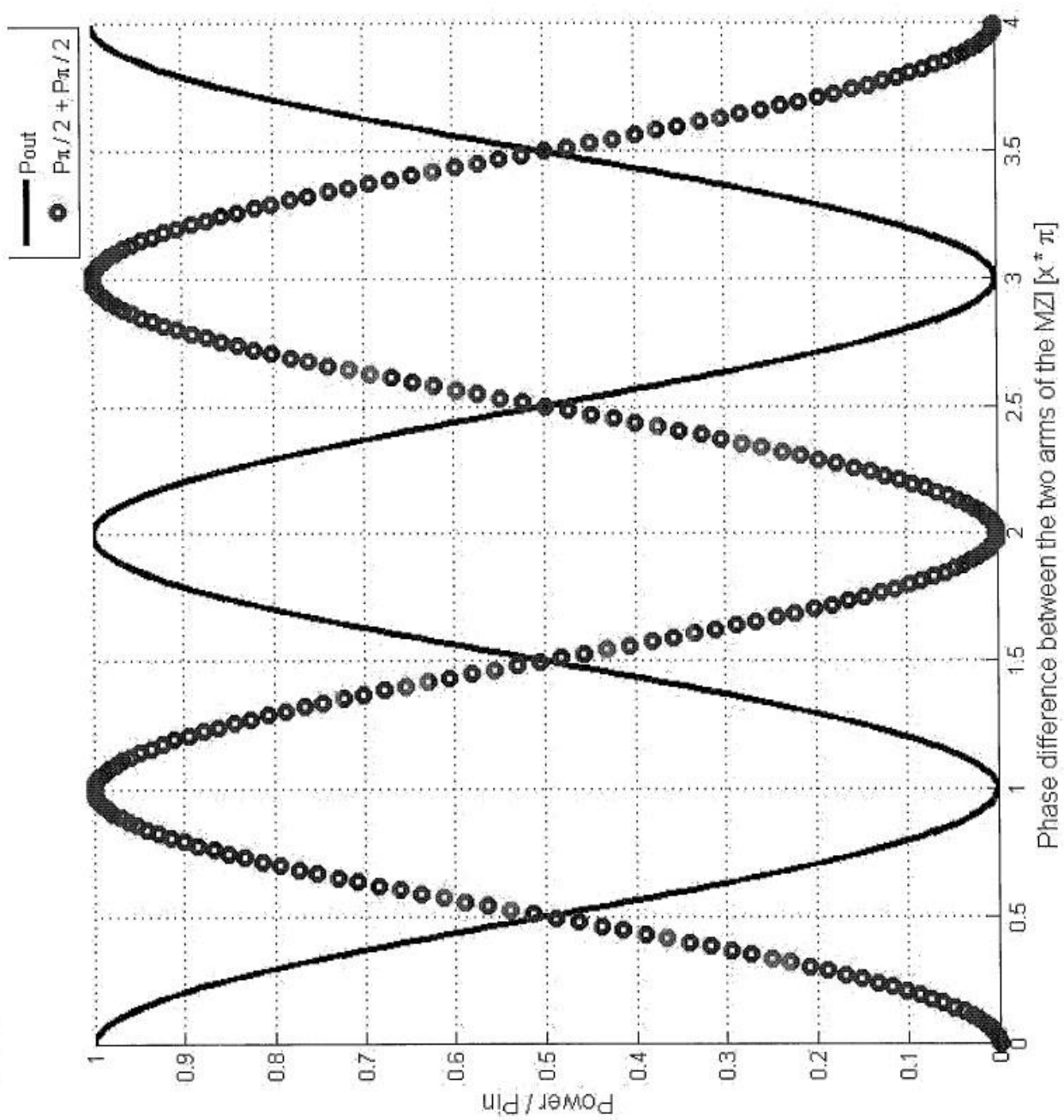


Figure 7

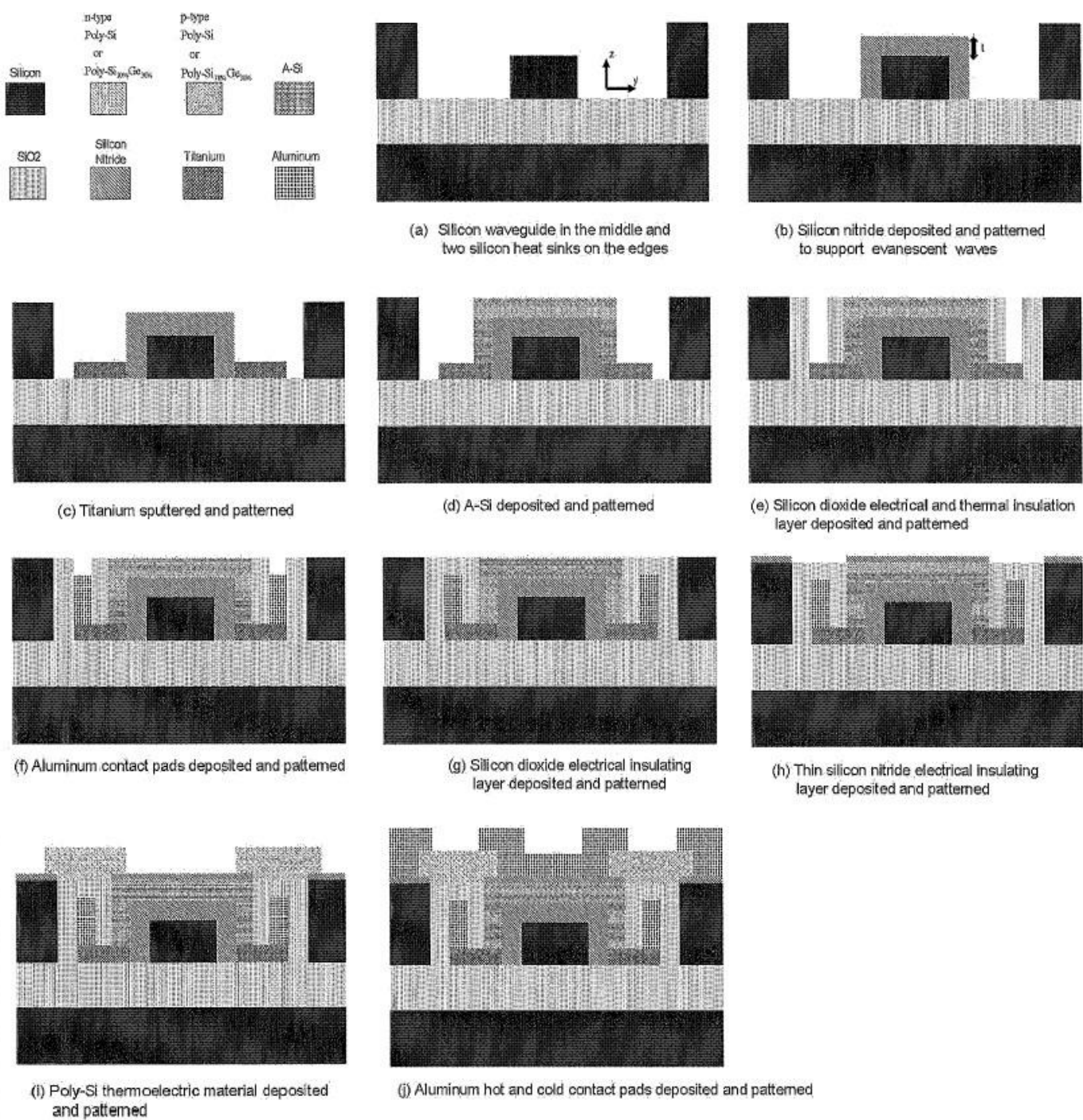


Figure 8

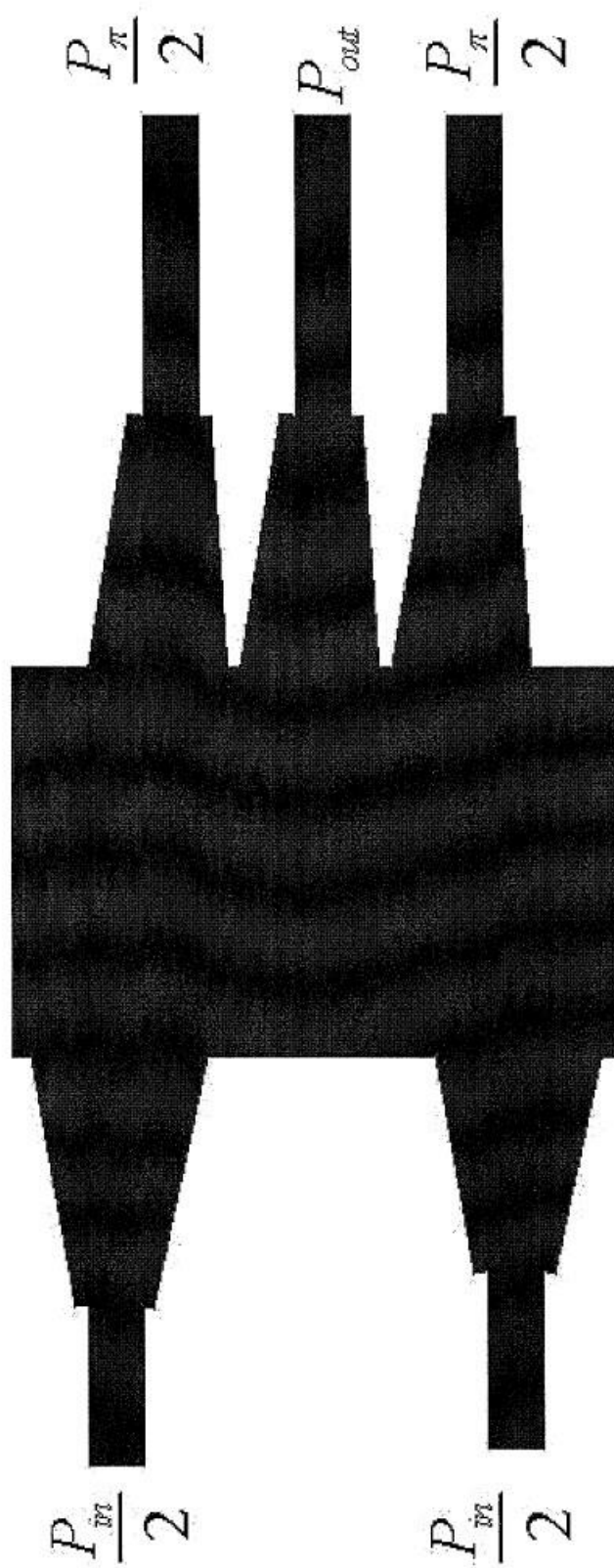
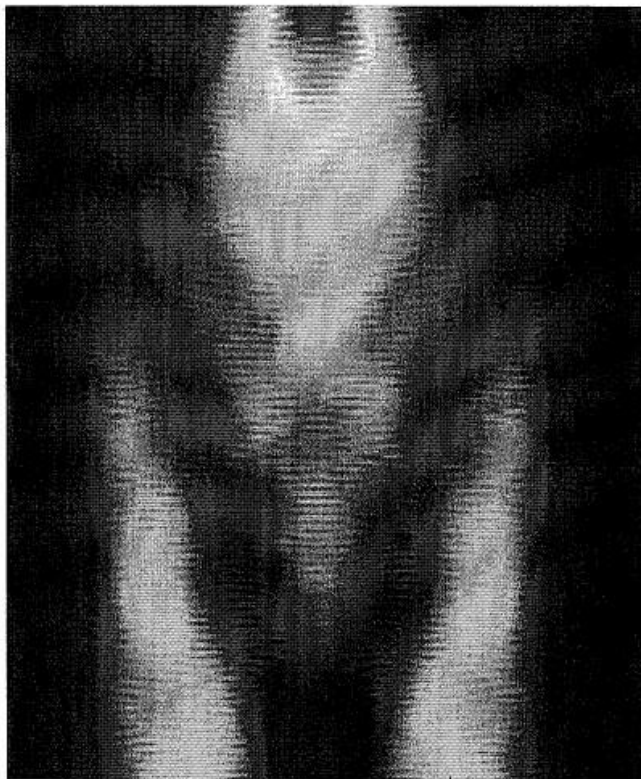
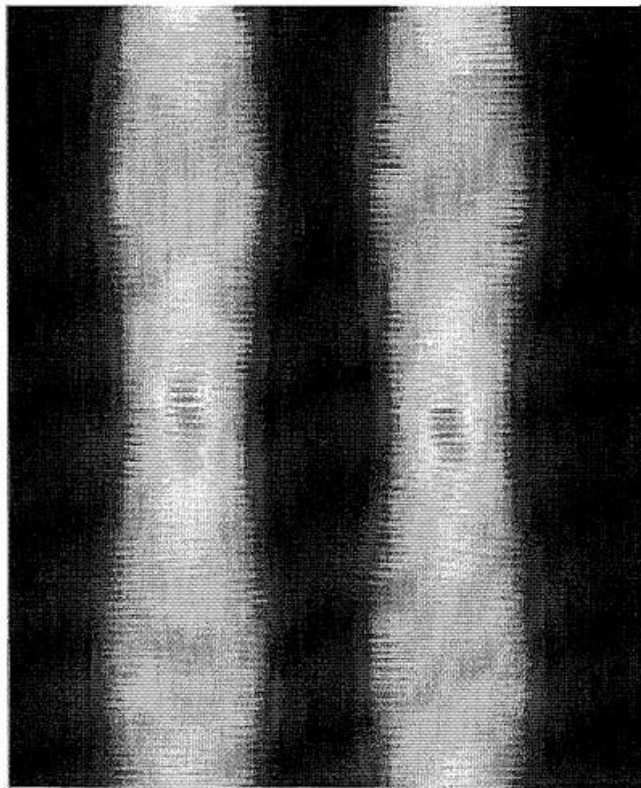


Figure 9



(a)



(b)

Figure 10

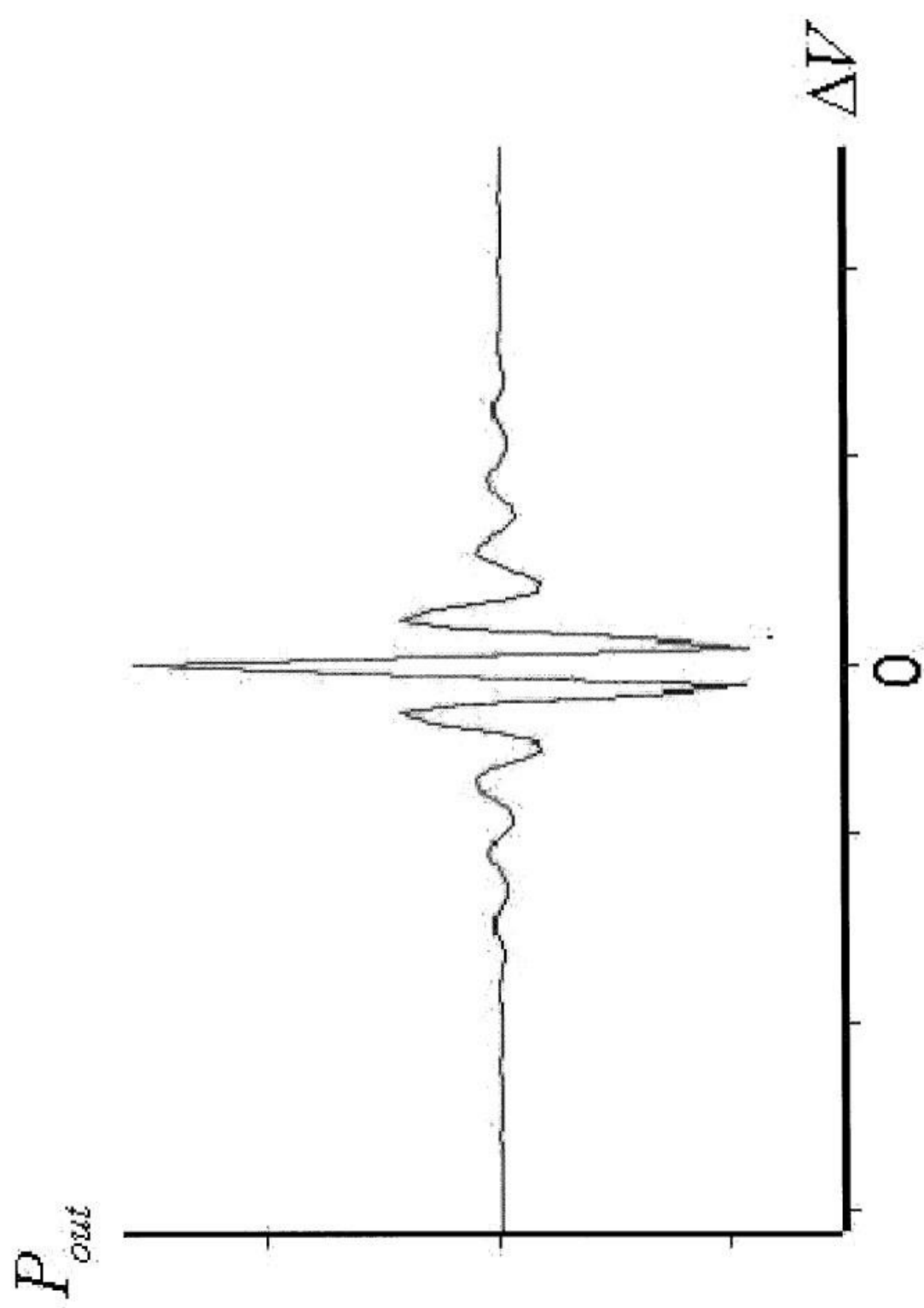


Figure 11

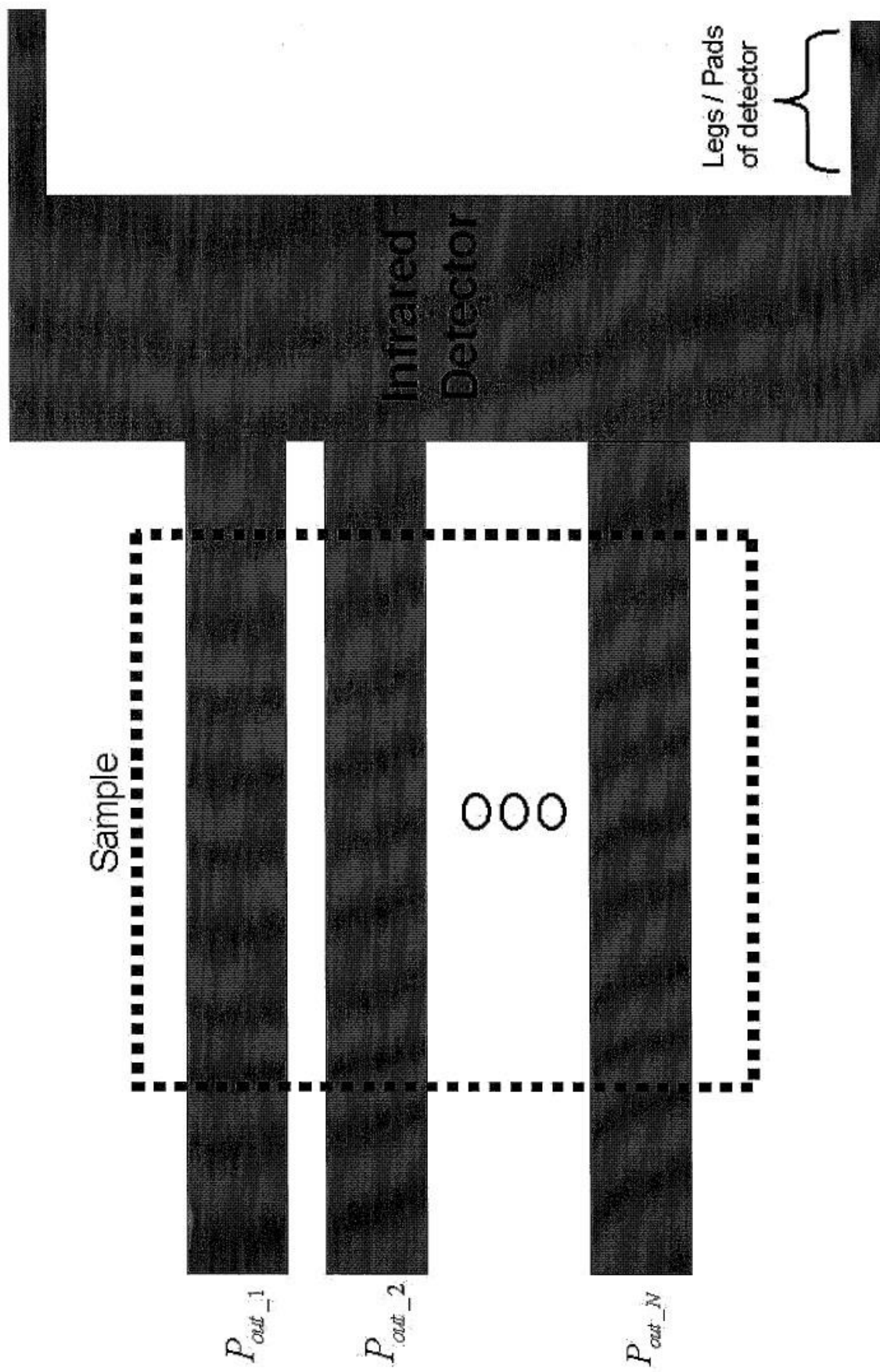


Figure 12

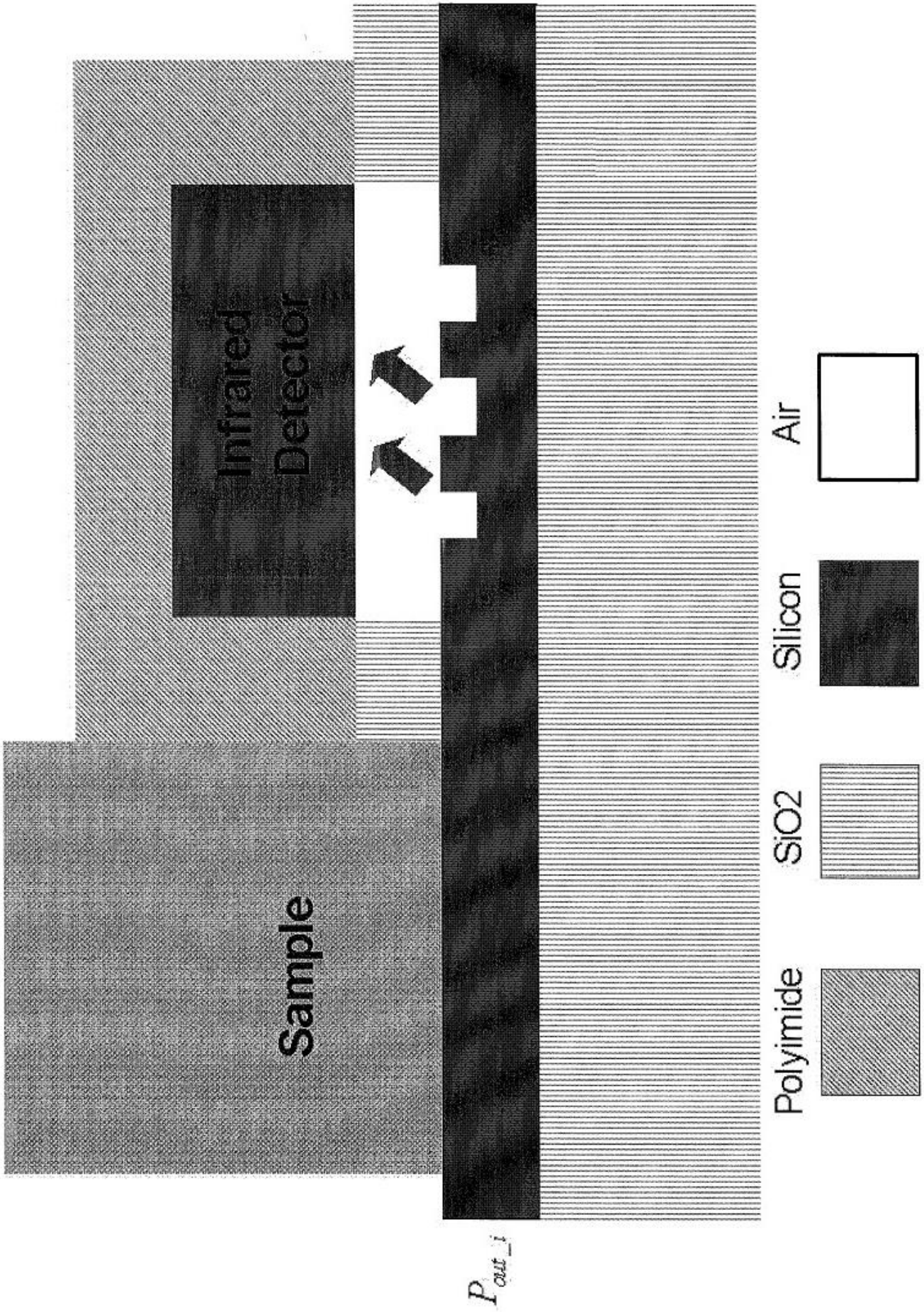


Figure 13

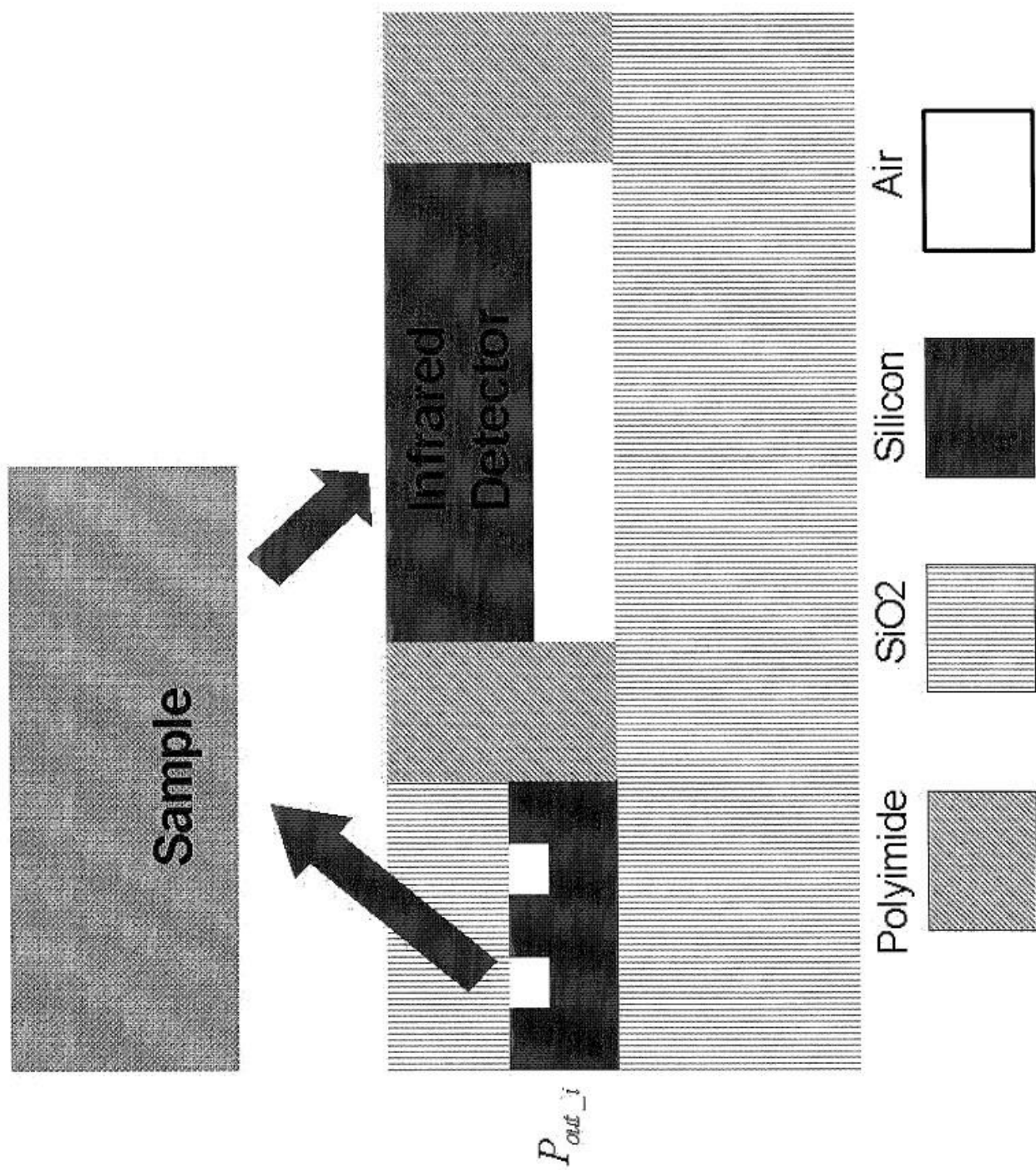
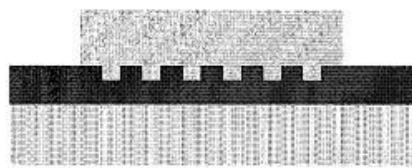
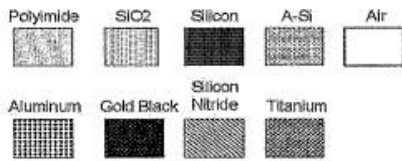
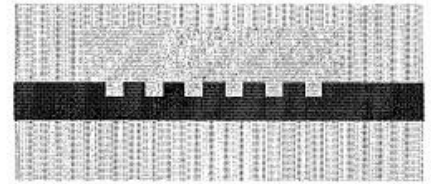


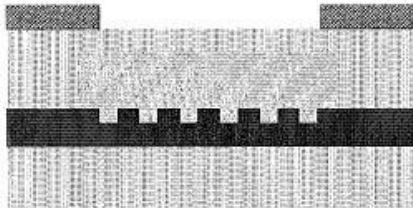
Figure 14



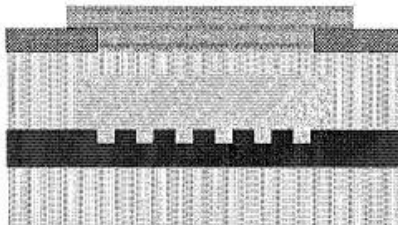
(a) Polyimide Sacrificial Layer



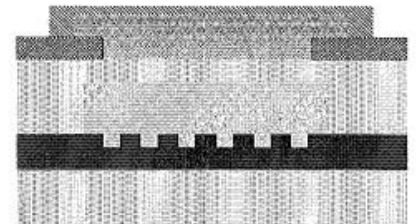
(b) Silicon Dioxide supporting layer deposited



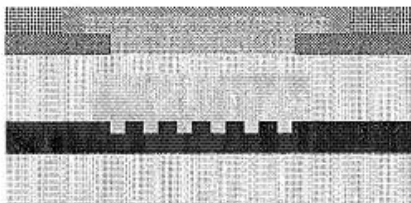
(c) Titanium sputtered and patterned



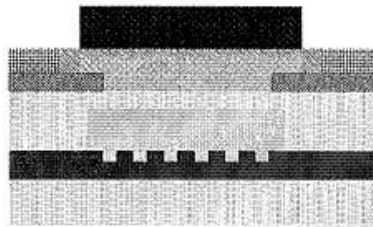
(d) A-Si Temperature Sensitive material deposited and patterned



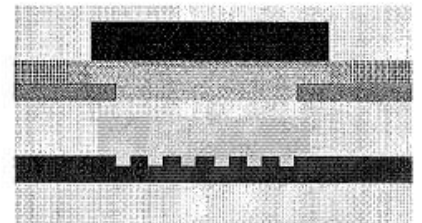
(e) Thin Silicon Nitride Protecting Layer



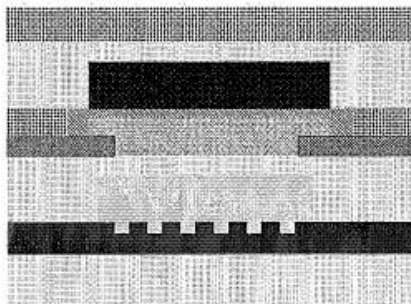
(f) Aluminum contact pads deposited and patterned



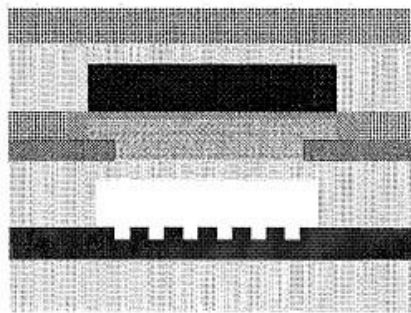
(g) Porous Gold Black evaporation and patterning



(h) Silicon Dioxide insulation layer deposited



(i) Aluminum Reflecting layer deposited



(j) Polyimide ashing

Figure 15

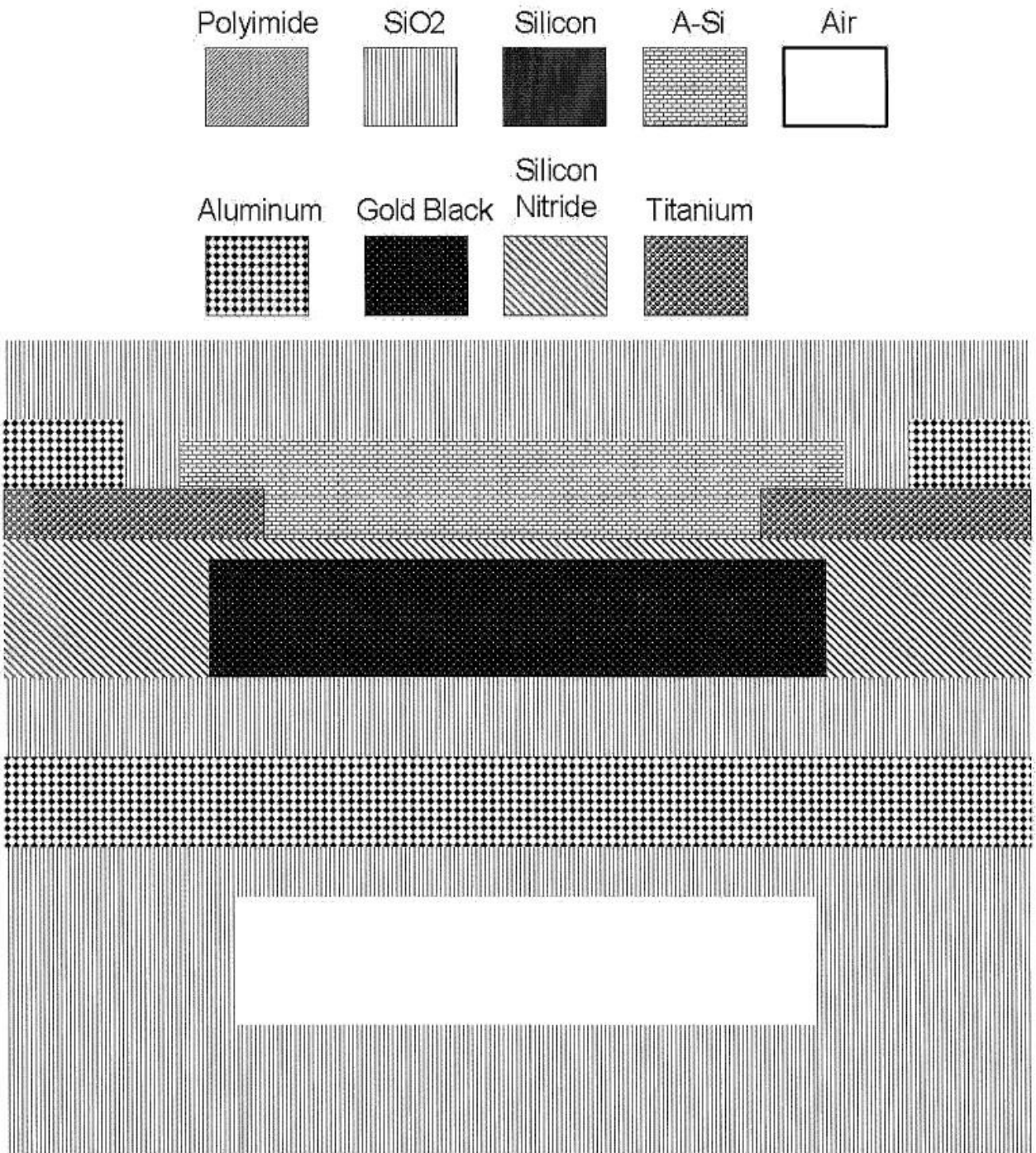


Figure 16

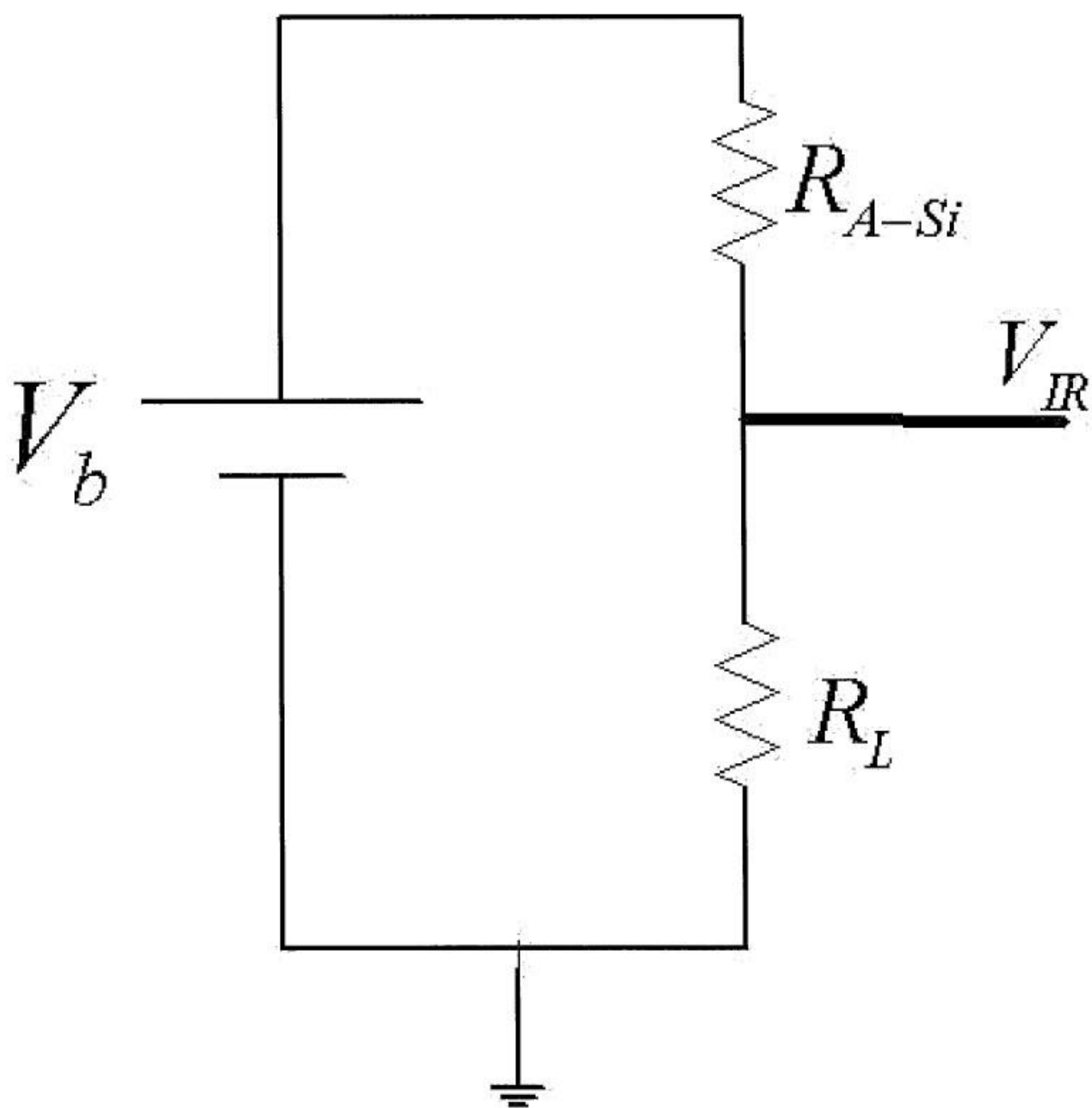


Figure 17

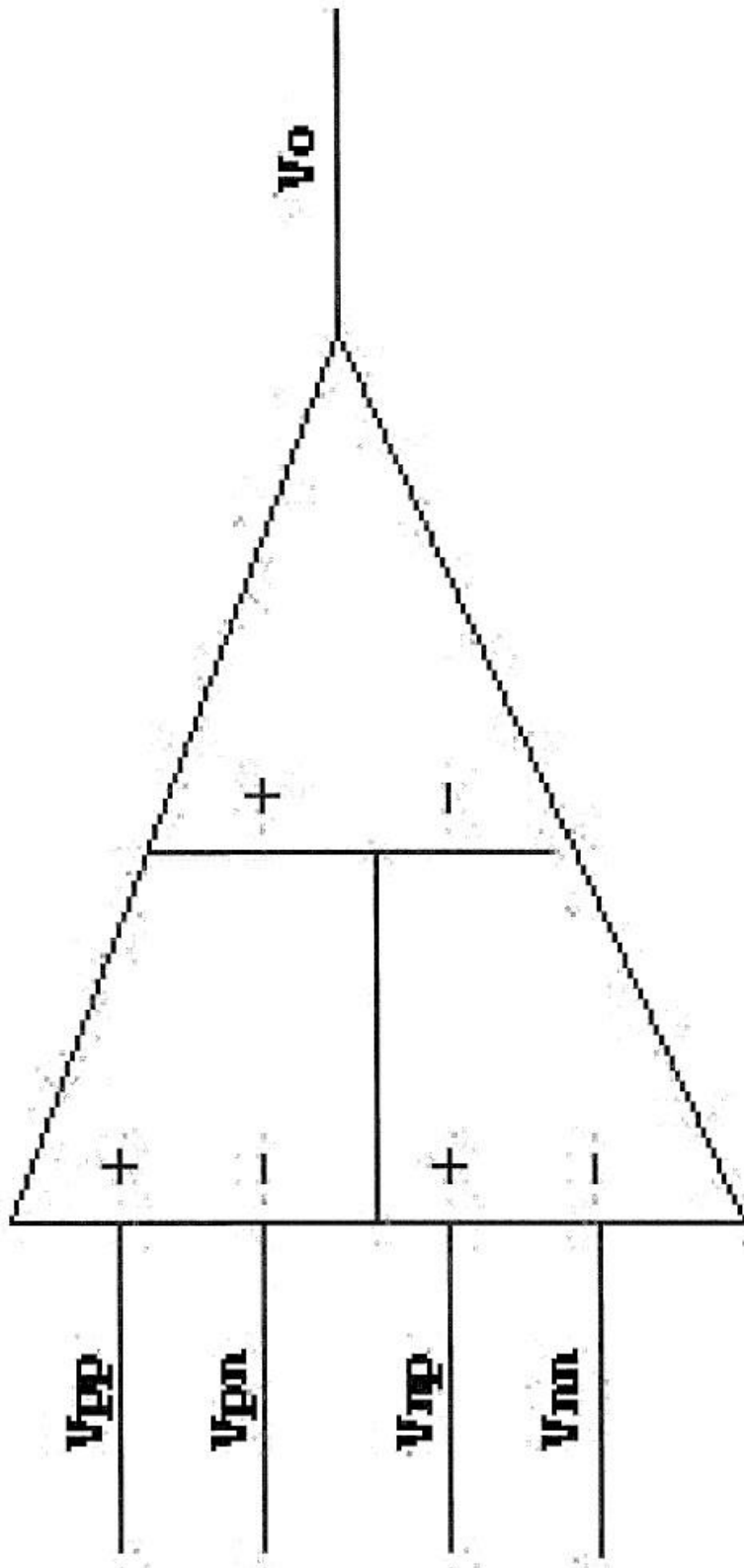


Figure 18

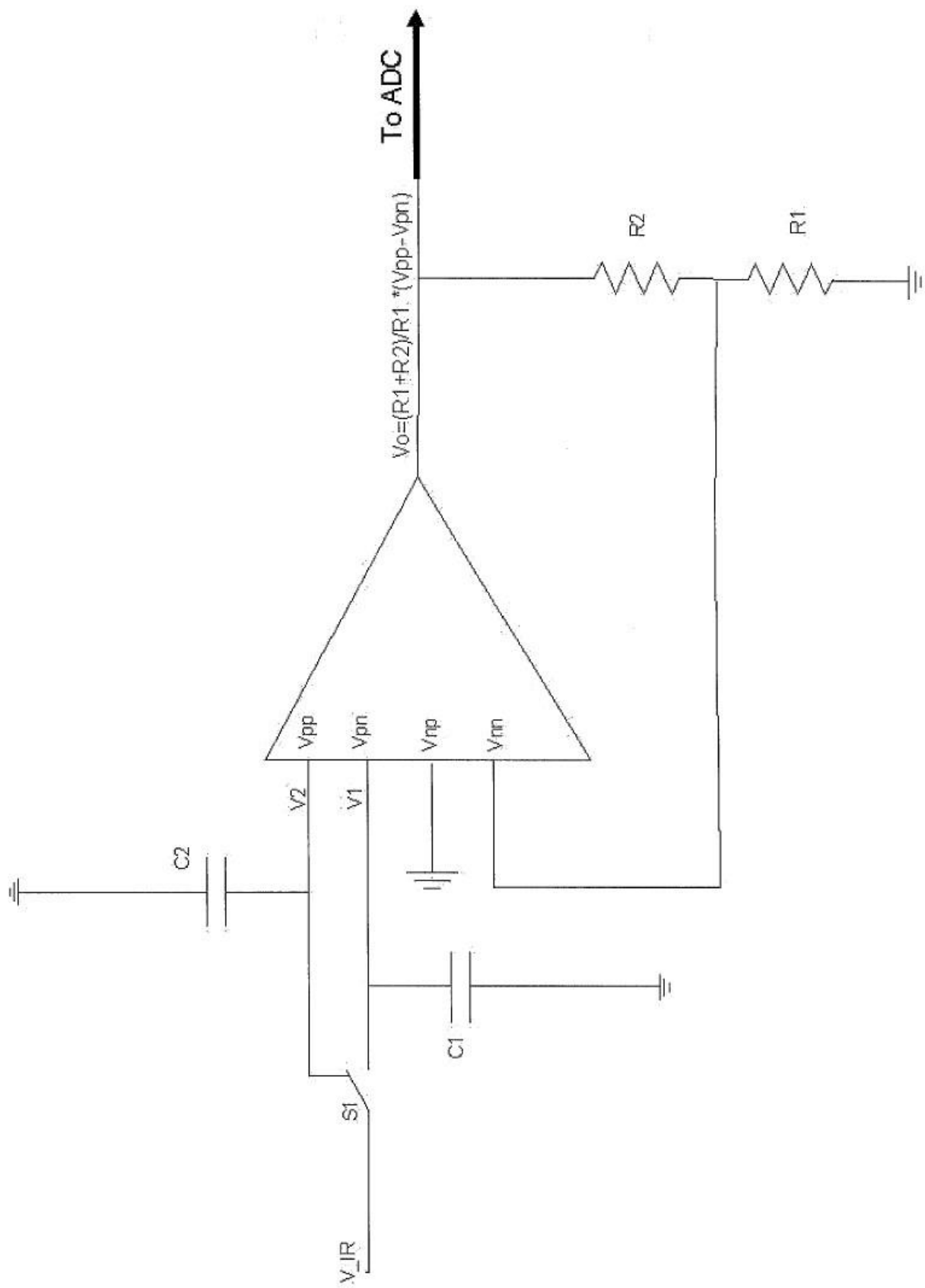


Figure 19

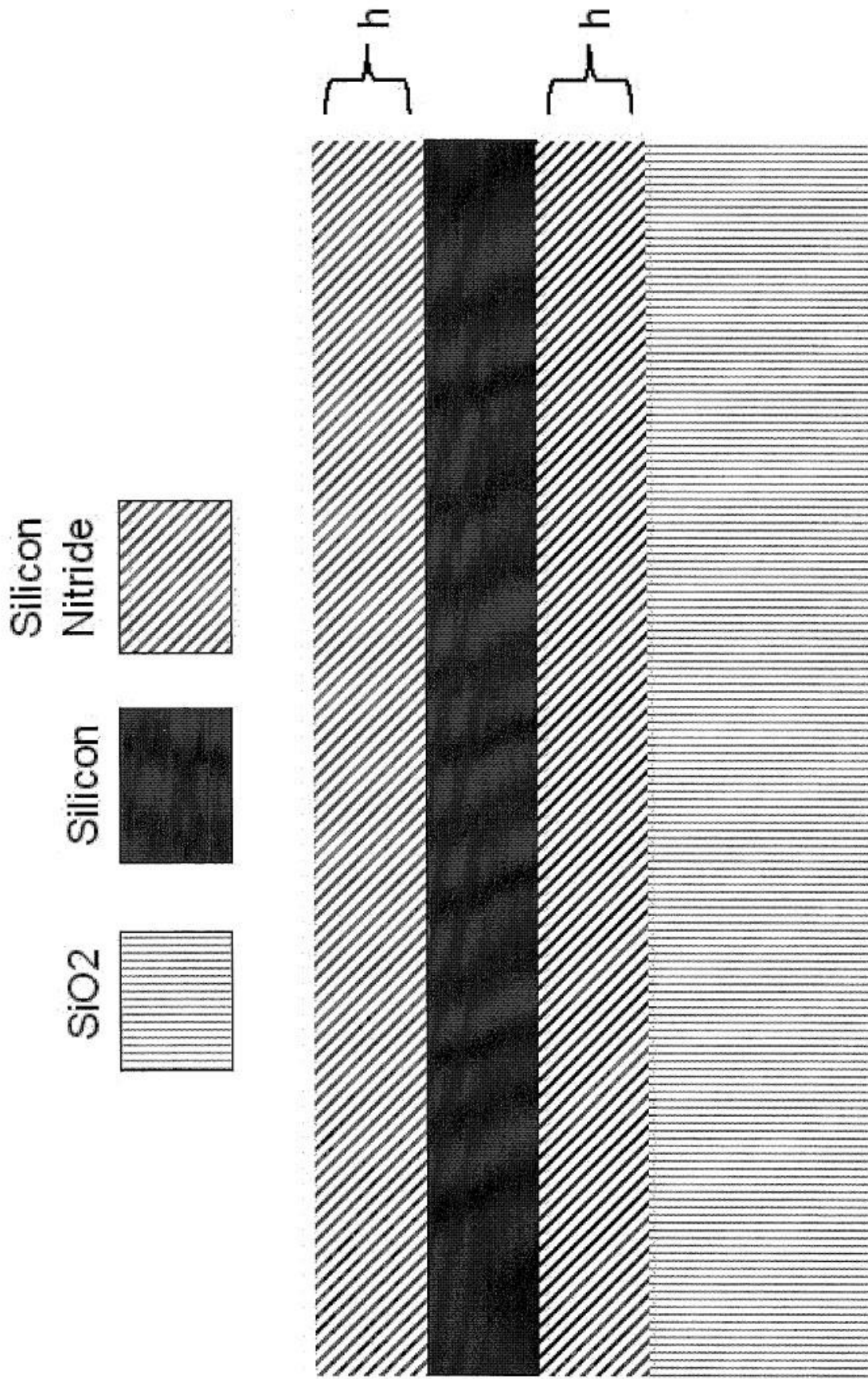


Figure 20

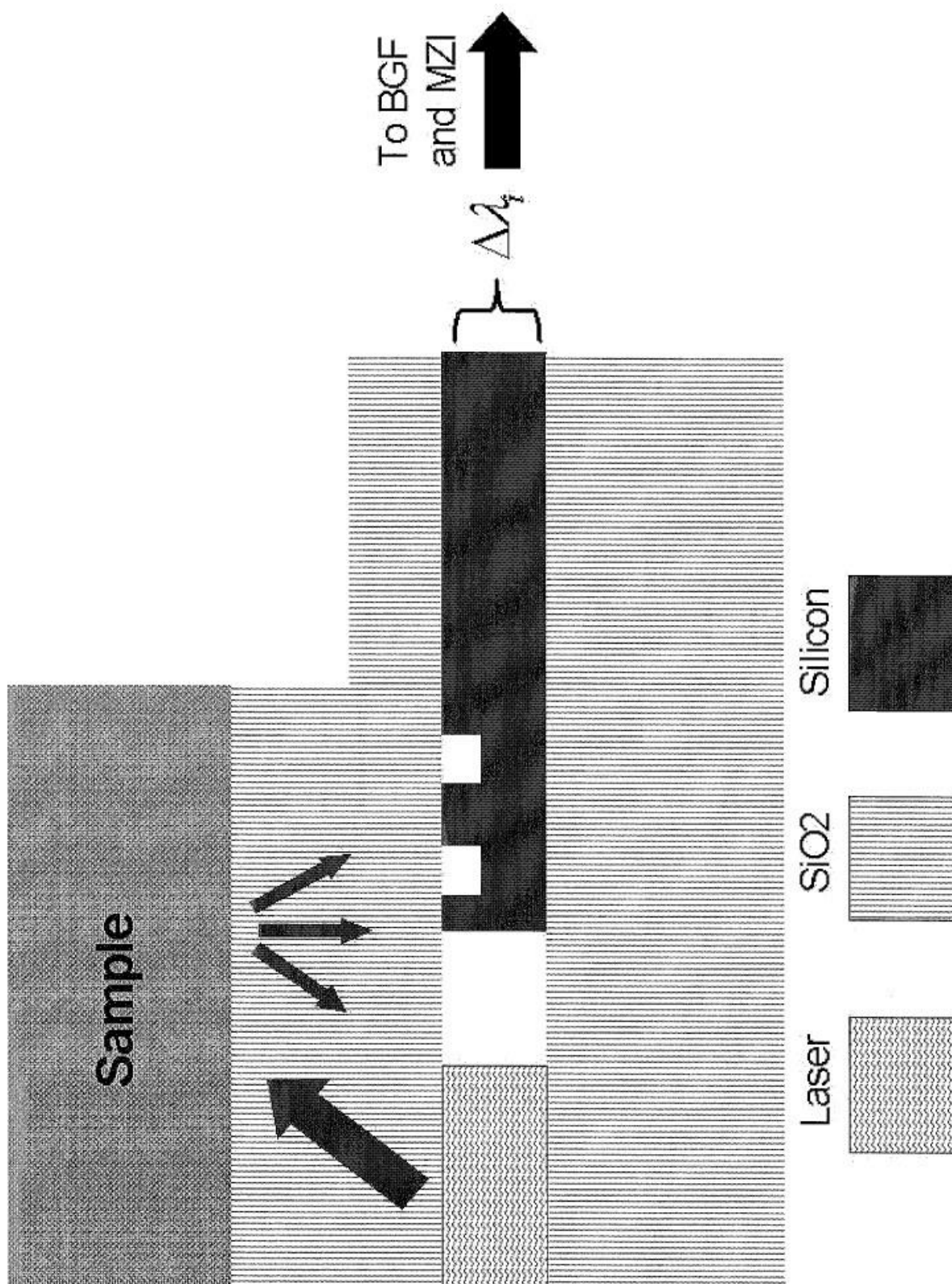


Figure 21

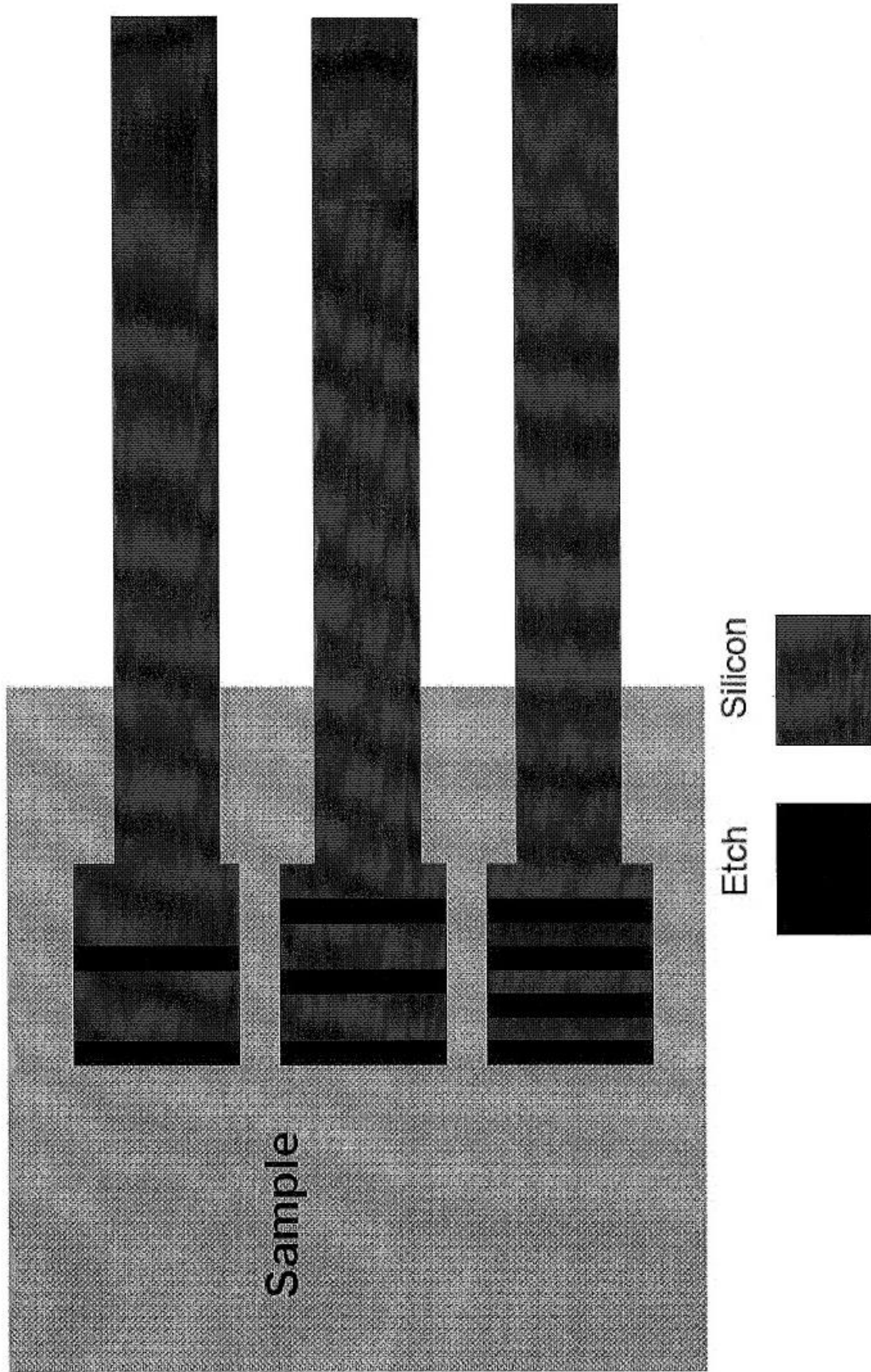


Figure 22