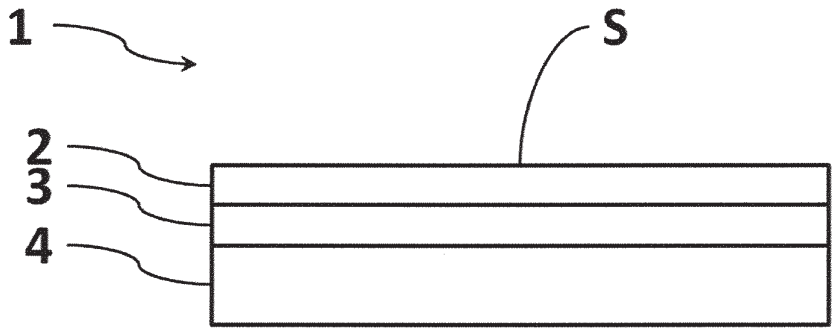


Fig 1 Prior Art

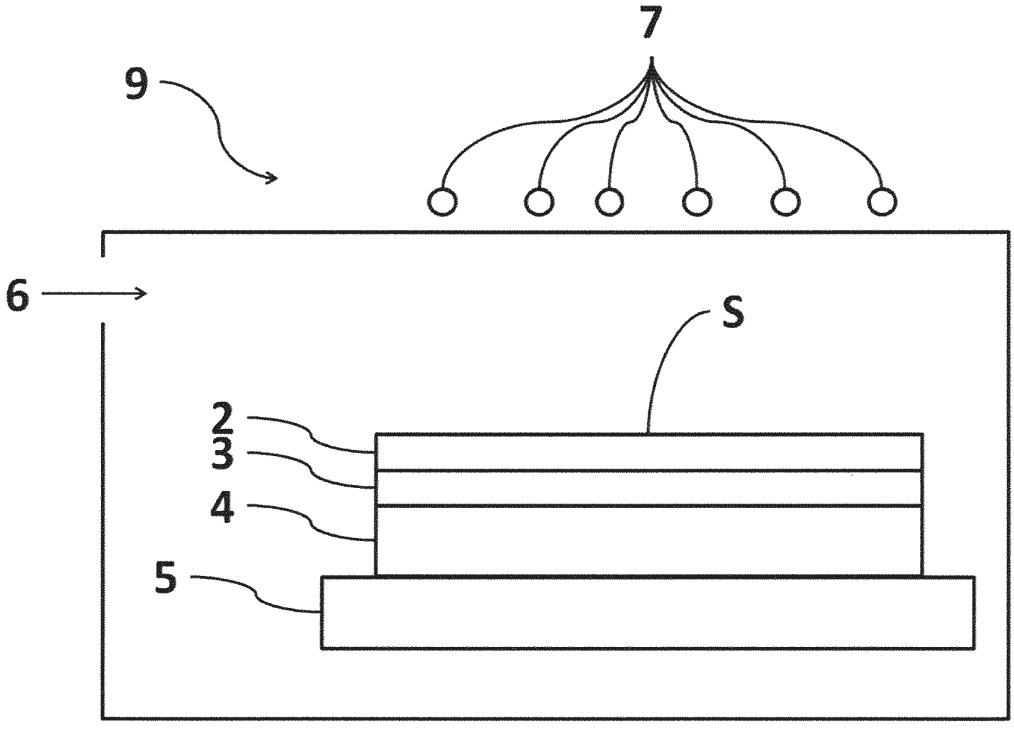


Fig 2 Prior Art

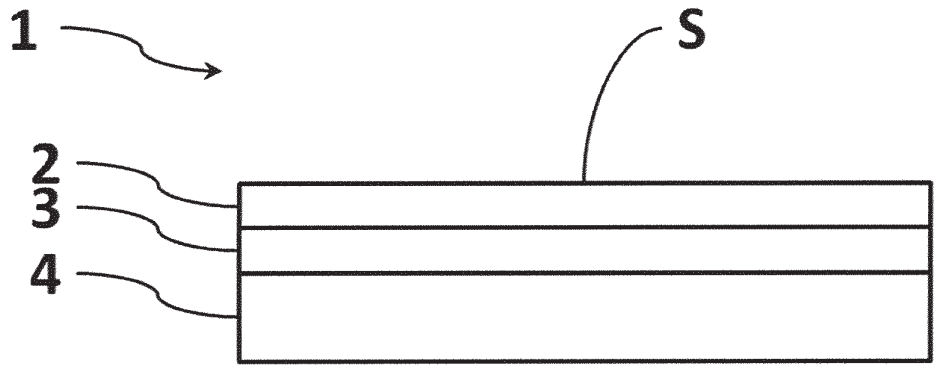


Fig 3

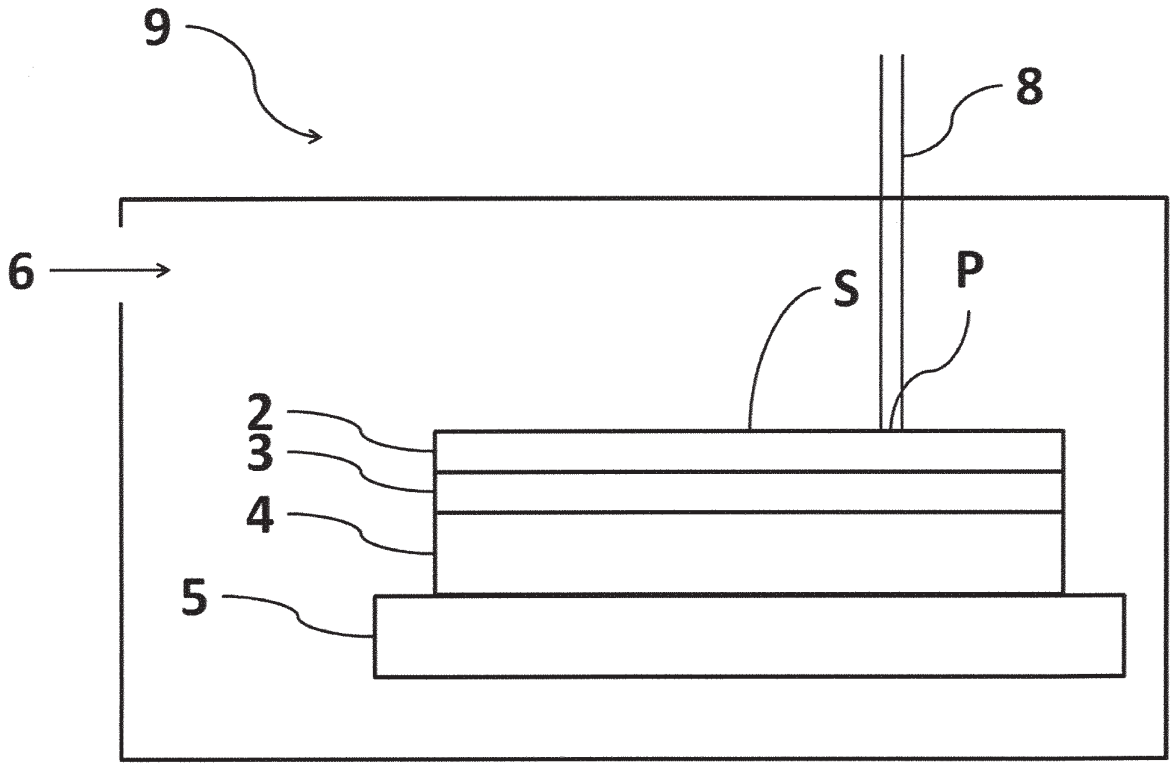


Fig 4

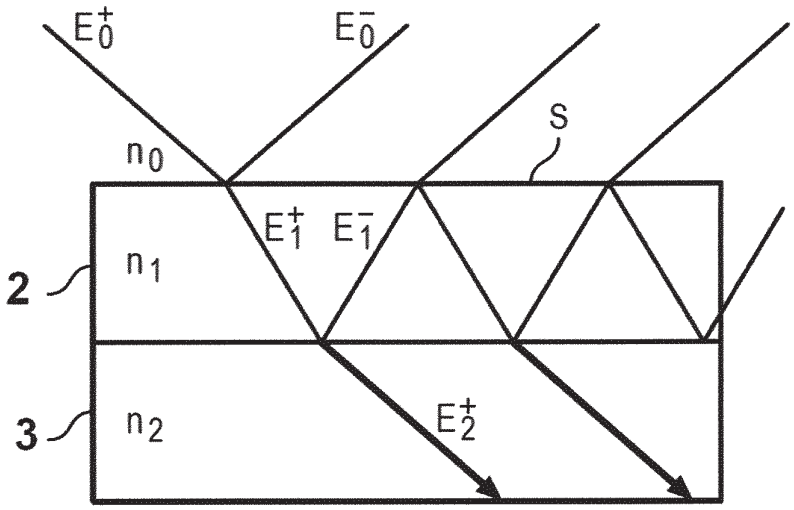

E_0^+
E_0^-
S
n_0
E_1^+ E_1^-
n_1
2
3
n_2
E_2^+

Fig 5

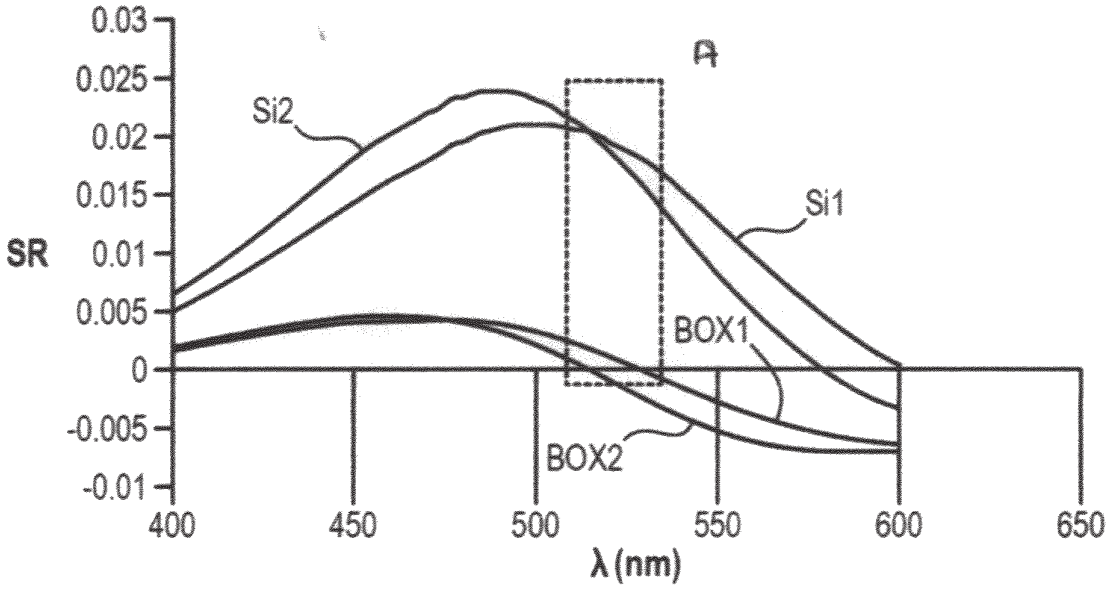

0.03
0.025
0.02
0.015
0.01
0.005
0
-0.005
-0.01
SR
A
Si2
Si1
BOX1
BOX2
400
450
500
550
600
650
λ (nm)

Fig 6

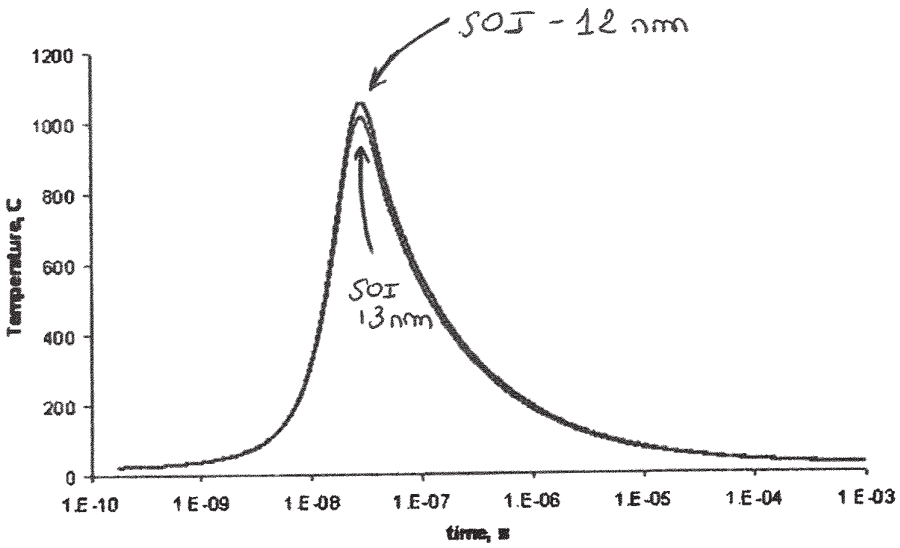

SOI - 12 nm
SOI 13nm
1200
1000
800
600
400
200
0
Temperature, C
1.E-10
1.E-09
1.E-08
1.E-07
1.E-06
1.E-05
1.E-04
1.E-03
time, s

Fig 7

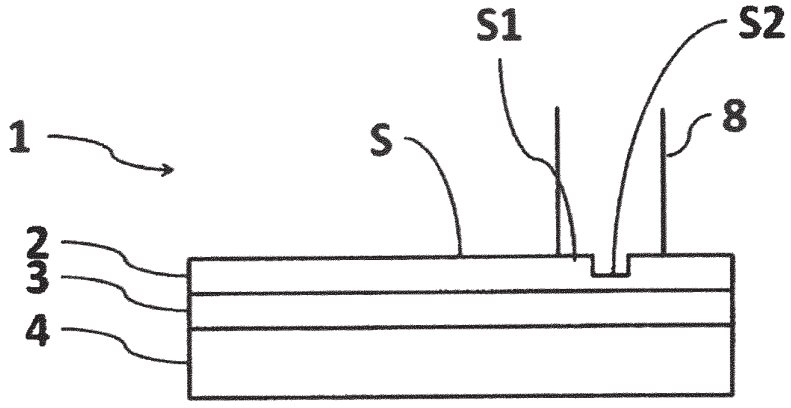

S1
S2
8
1
S
2
3
4

Fig 8

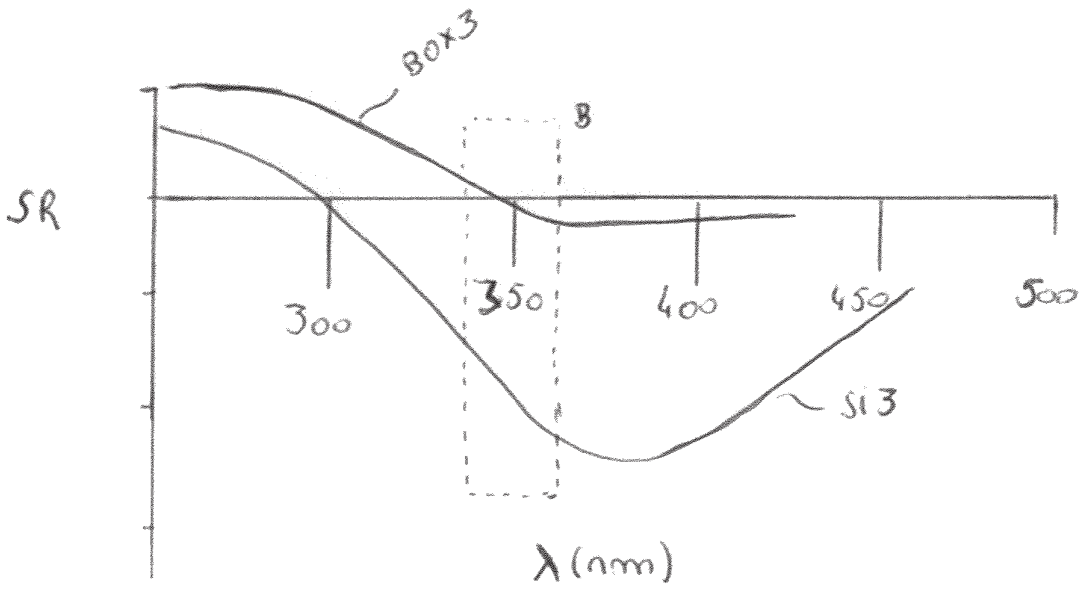


Fig 9