FIG.1

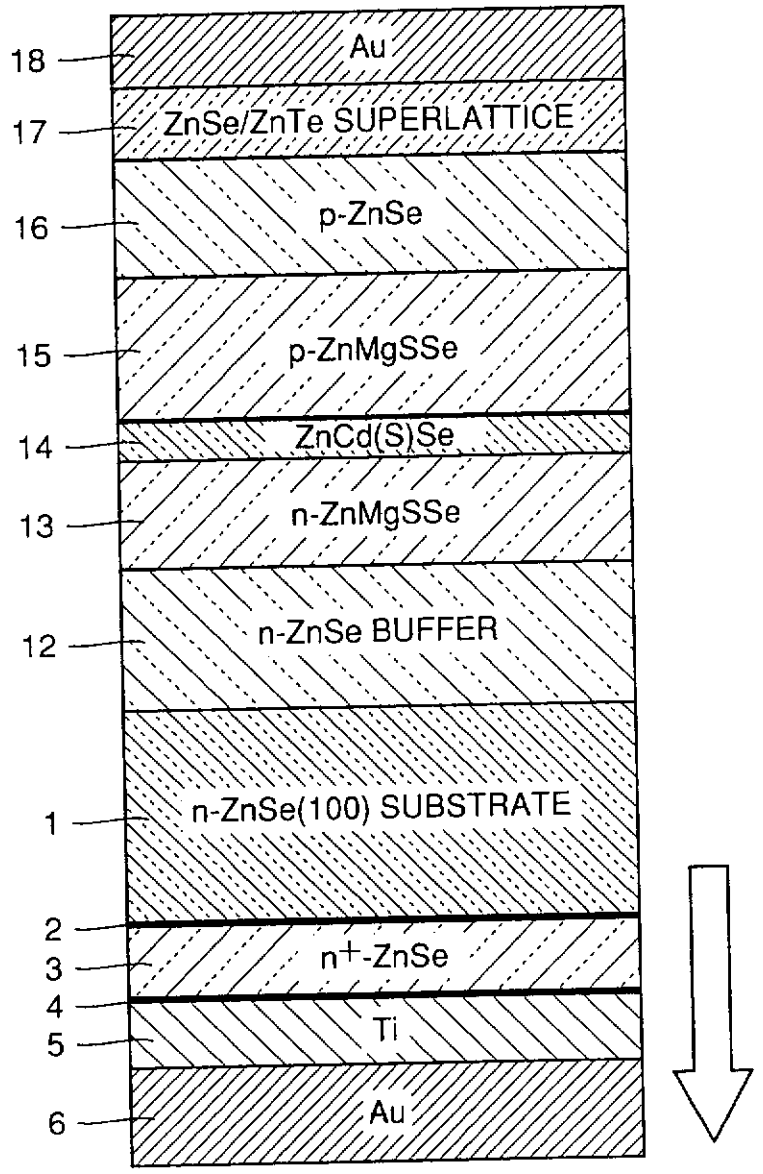

18
Au
17
ZnSe/ZnTe SUPERLATTICE
16
p-ZnSe
15
p-ZnMgSSe
14
ZnCd(S)Se
13
n-ZnMgSSe
12
n-ZnSe BUFFER
1
n-ZnSe(100) SUBSTRATE
2
3
n+-ZnSe
4
5
Ti
6
Au

FIG.2

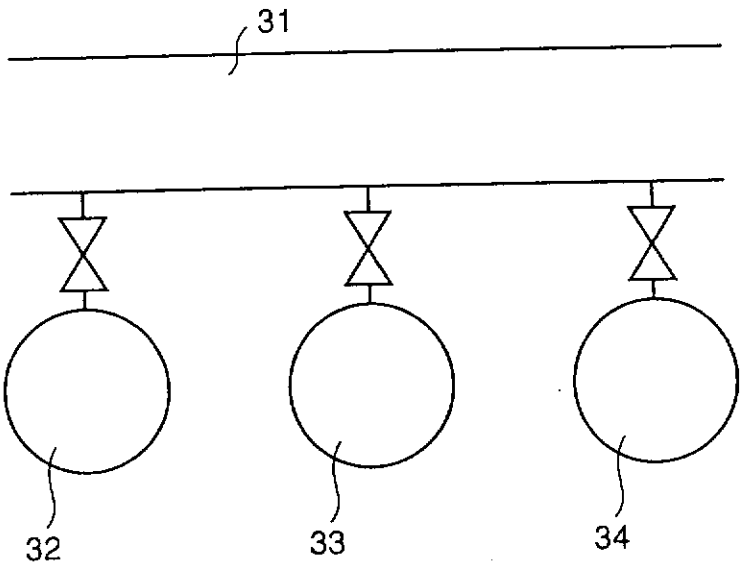


FIG.3

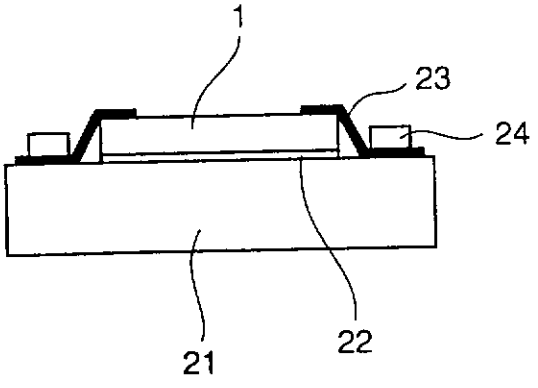


FIG.4

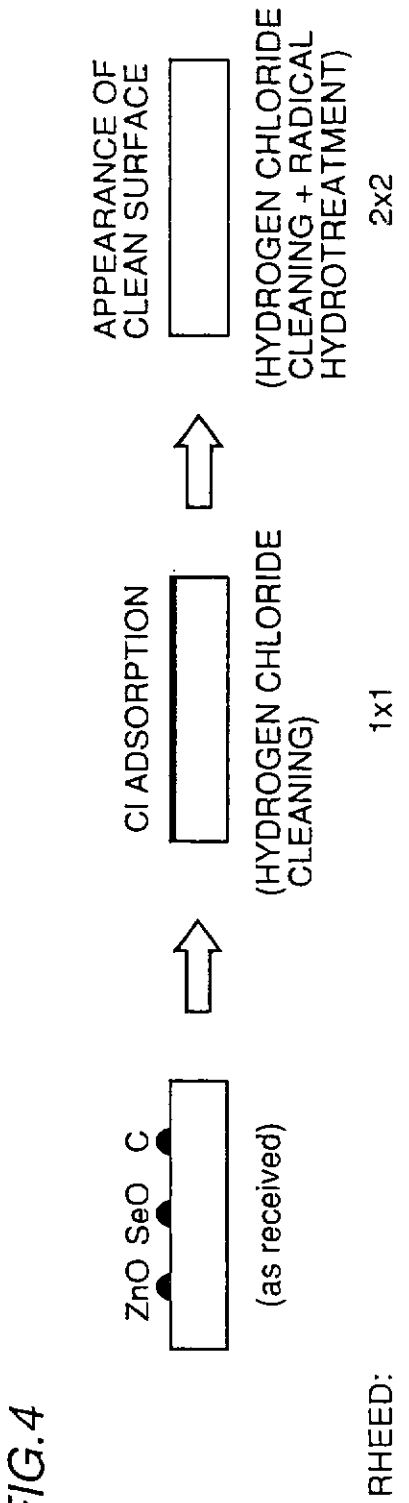

ZnO SeO C
(as received)
hollow
Cl ADSORPTION
(HYDROGEN CHLORIDE CLEANING)
1x1
APPEARANCE OF CLEAN SURFACE
(HYDROGEN CHLORIDE CLEANING + RADICAL HYDROTREATMENT)
2x2
RHEED:

FIG.5

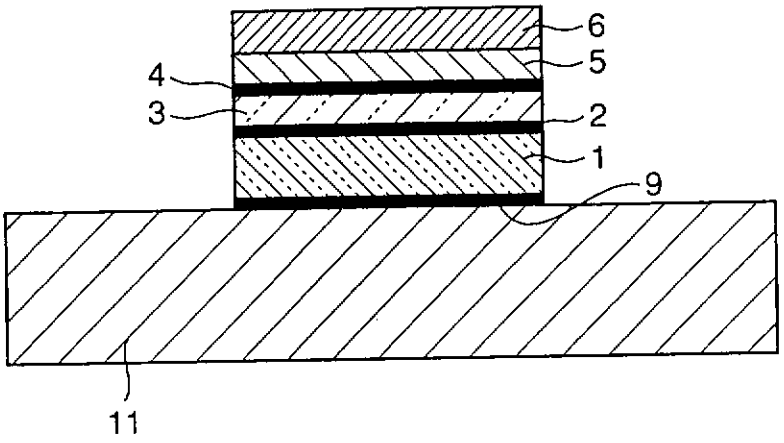


FIG.6

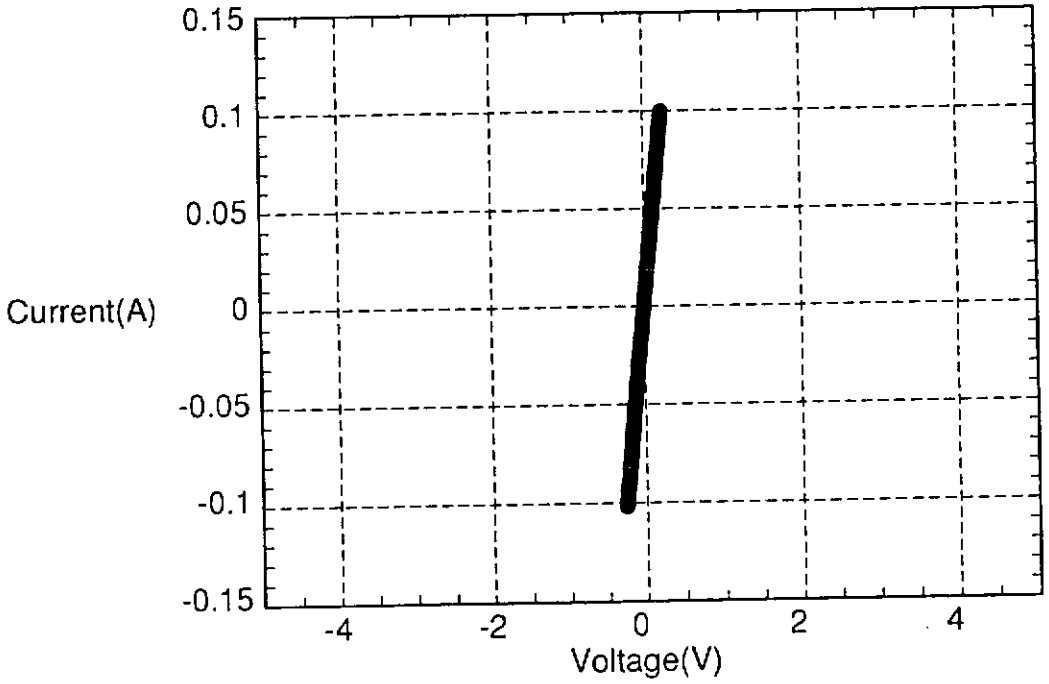


FIG.7

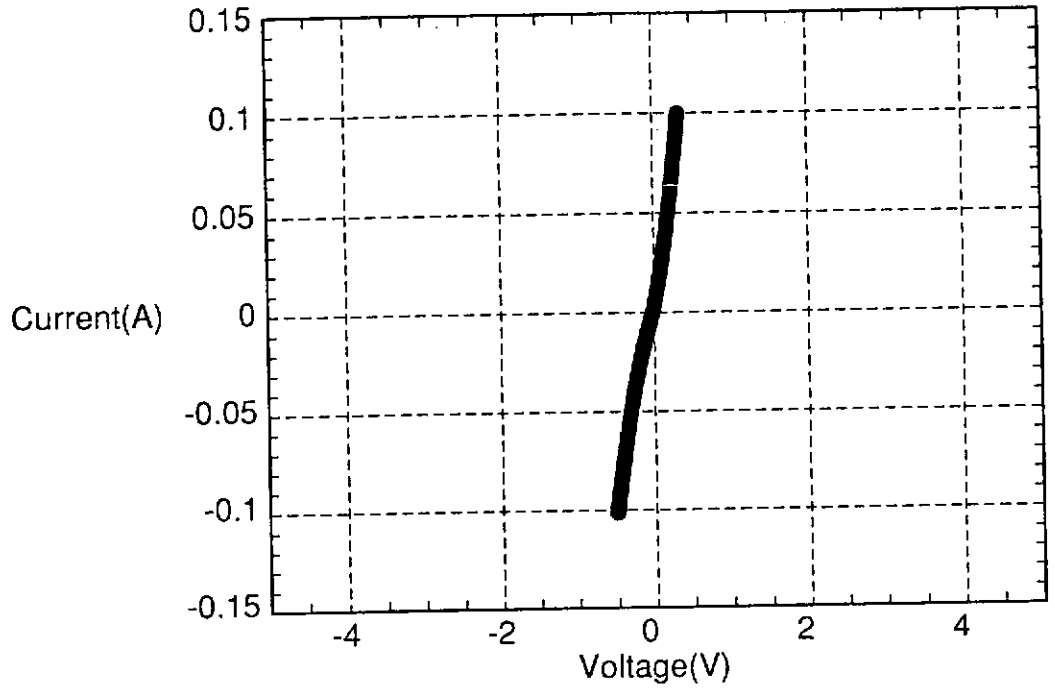

0.15
0.1
0.05
0
-0.05
-0.1
-0.15
Current(A)
-4
-2
0
2
4
Voltage(V)

FIG.8

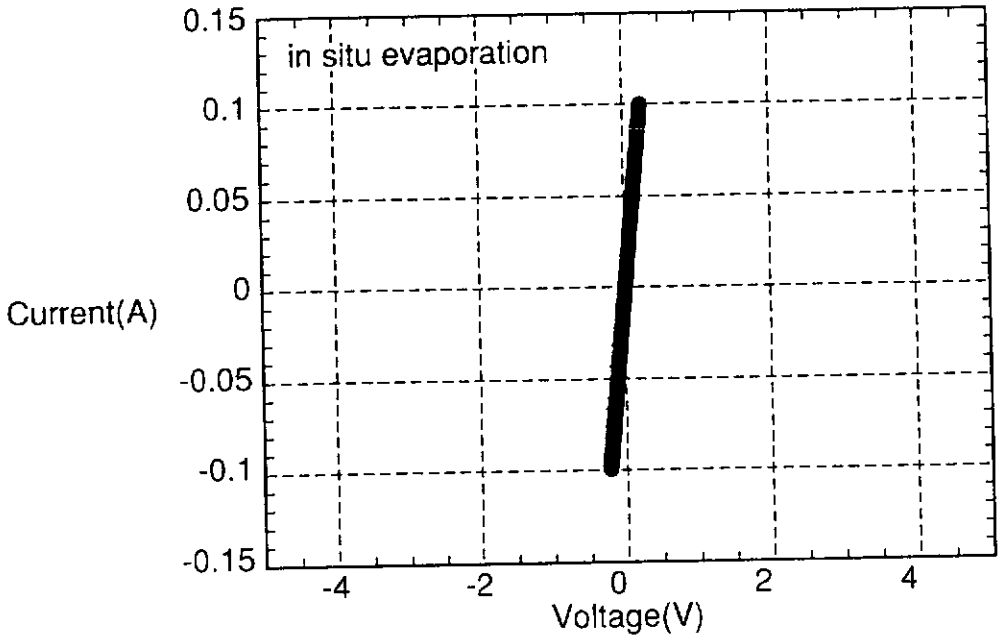

in situ evaporation
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
Current(A)
-4
-2
0
2
4
Voltage(V)

FIG.9

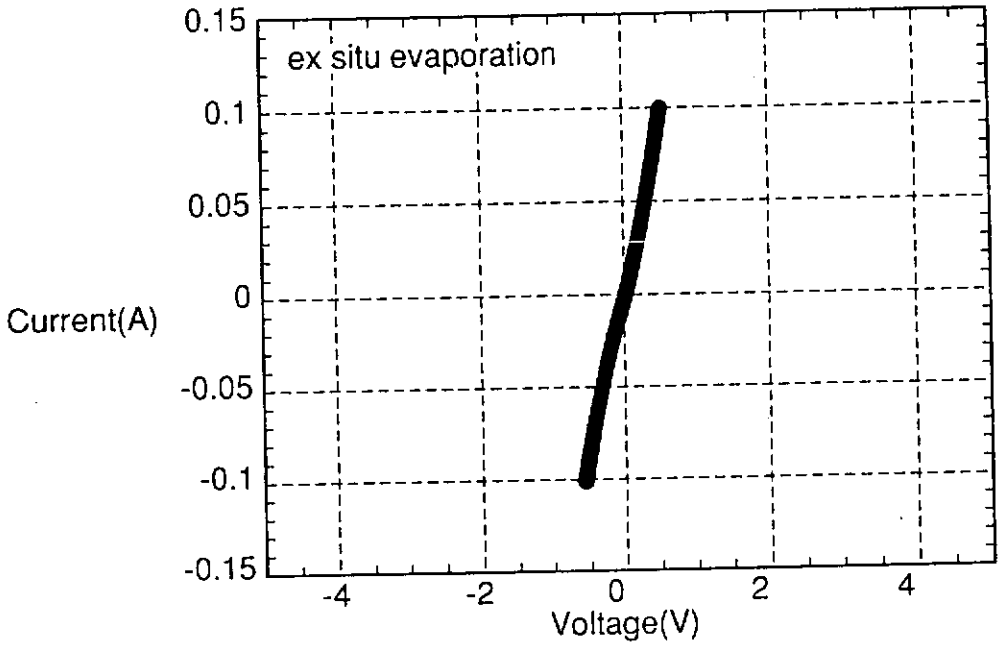

ex situ evaporation
Current(A)
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-4
-2
0
2
4
Voltage(V)

FIG.10

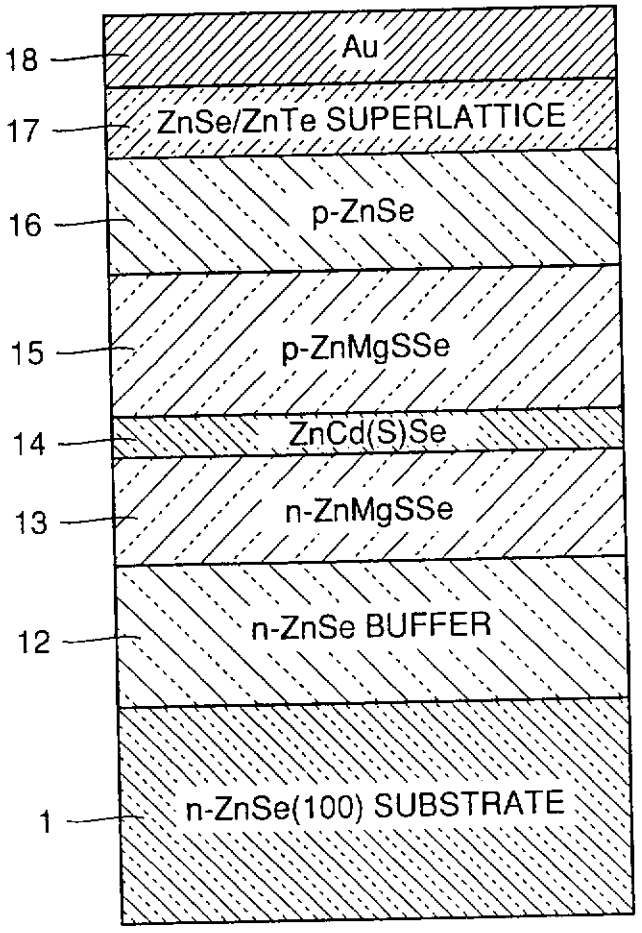

18
Au
17
ZnSe/ZnTe SUPERLATTICE
16
p-ZnSe
15
p-ZnMgSSe
14
ZnCd(S)Se
13
n-ZnMgSSe
12
n-ZnSe BUFFER
1
n-ZnSe(100) SUBSTRATE

FIG.11

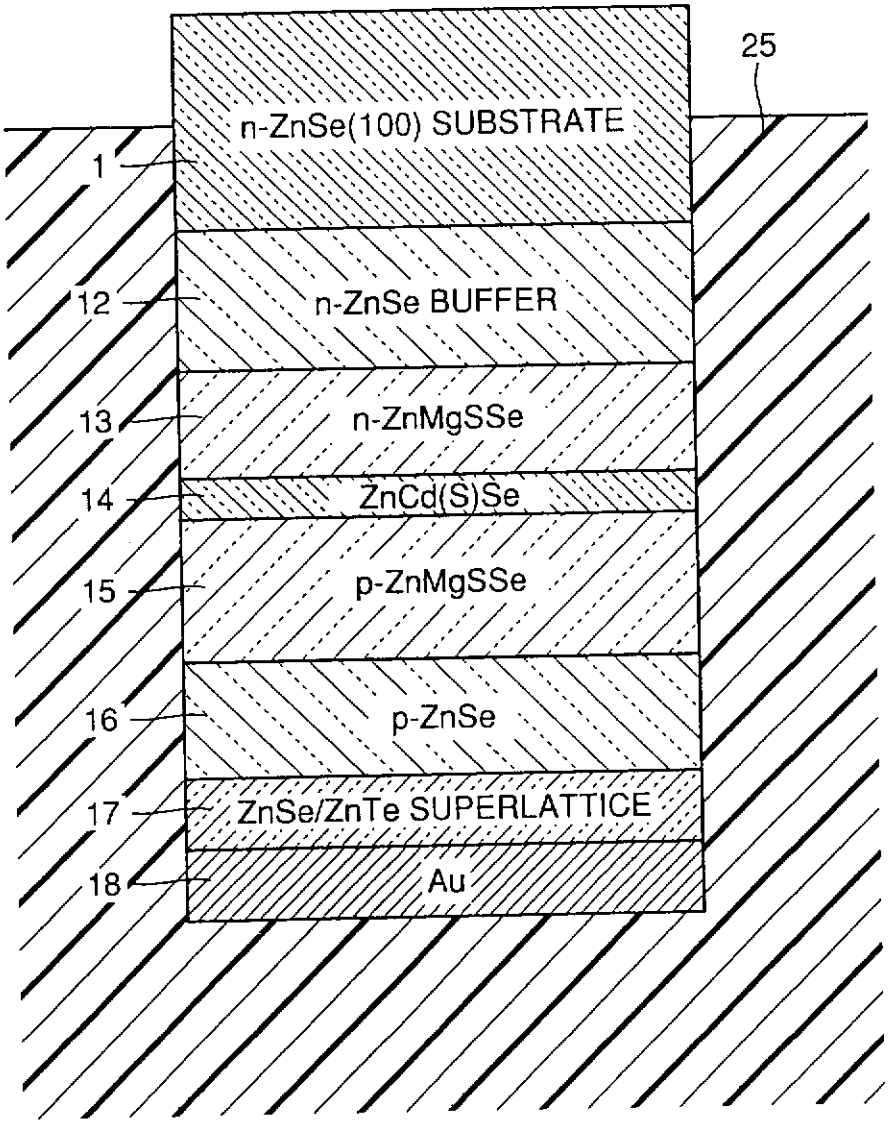

25
n-ZnSe(100) SUBSTRATE
1
12
n-ZnSe BUFFER
13
n-ZnMgSSe
14
ZnCd(S)Se
15
p-ZnMgSSe
16
p-ZnSe
17
ZnSe/ZnTe SUPERLATTICE
18
Au

FIG.12

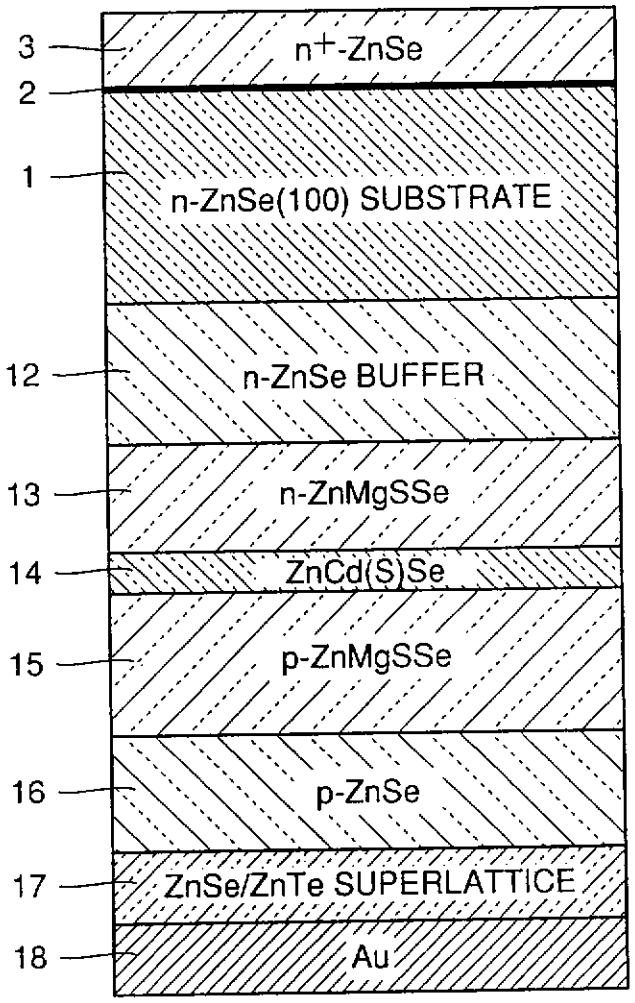
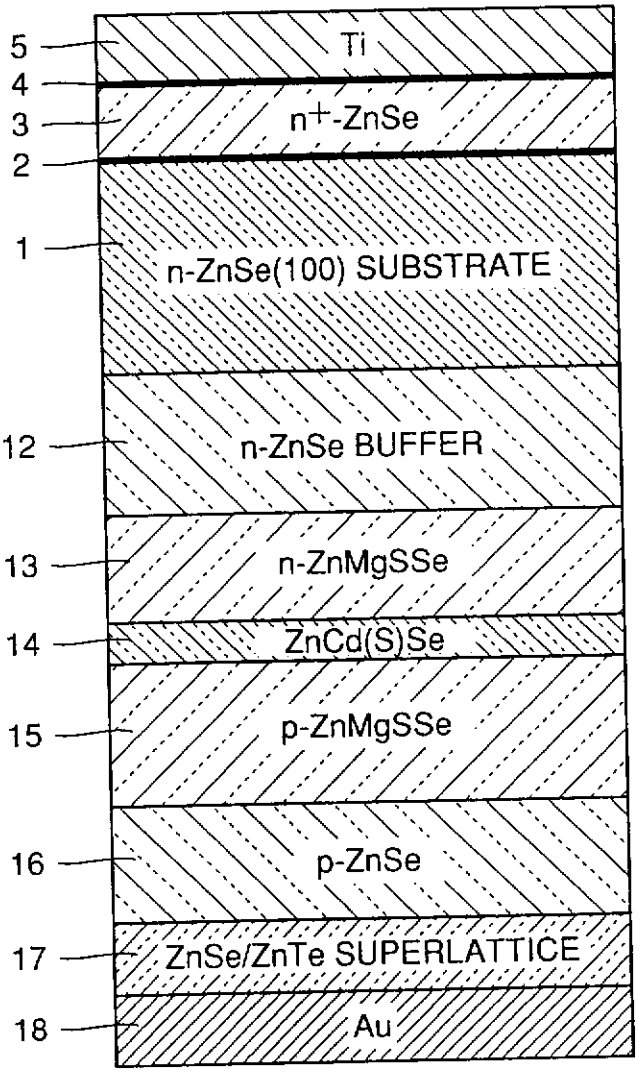

3
2
1
12
13
14
15
16
17
18
n+-ZnSe
n-ZnSe(100) SUBSTRATE
n-ZnSe BUFFER
n-ZnMgSSe
ZnCd(S)Se
p-ZnMgSSe
p-ZnSe
ZnSe/ZnTe SUPERLATTICE
Au

FIG.13


5
4
3
2
1
12
13
14
15
16
17
18
Ti
n+-ZnSe
n-ZnSe(100) SUBSTRATE
n-ZnSe BUFFER
n-ZnMgSSe
ZnCd(S)Se
p-ZnMgSSe
p-ZnSe
ZnSe/ZnTe SUPERLATTICE
Au