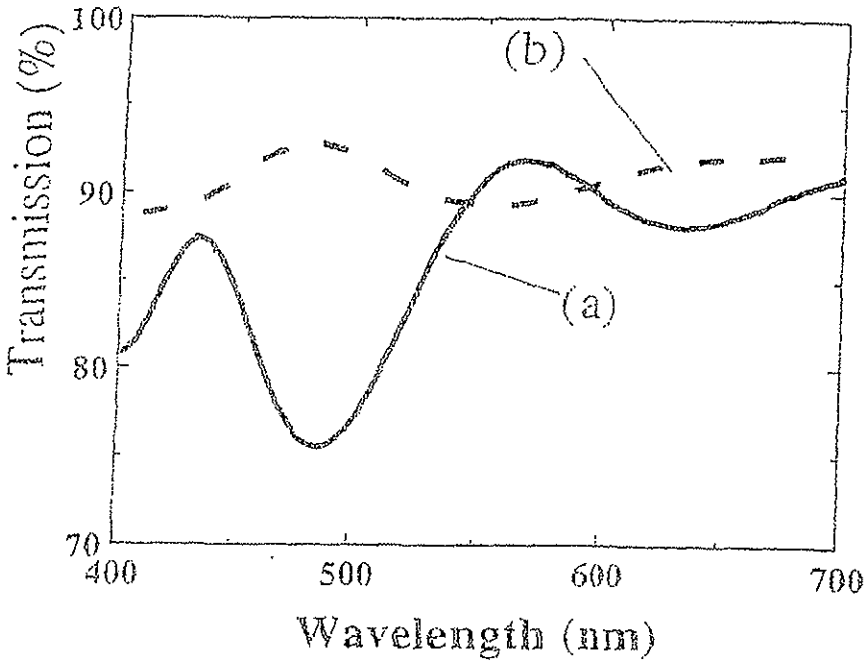


FIG. 1

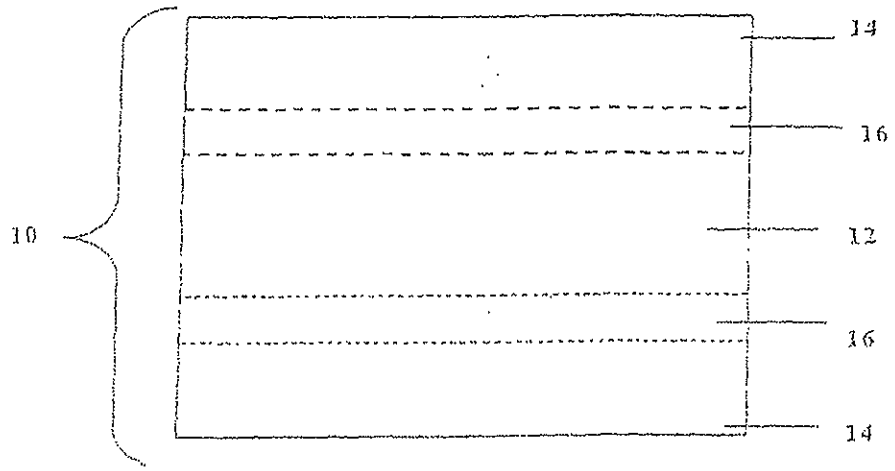


FIG.2

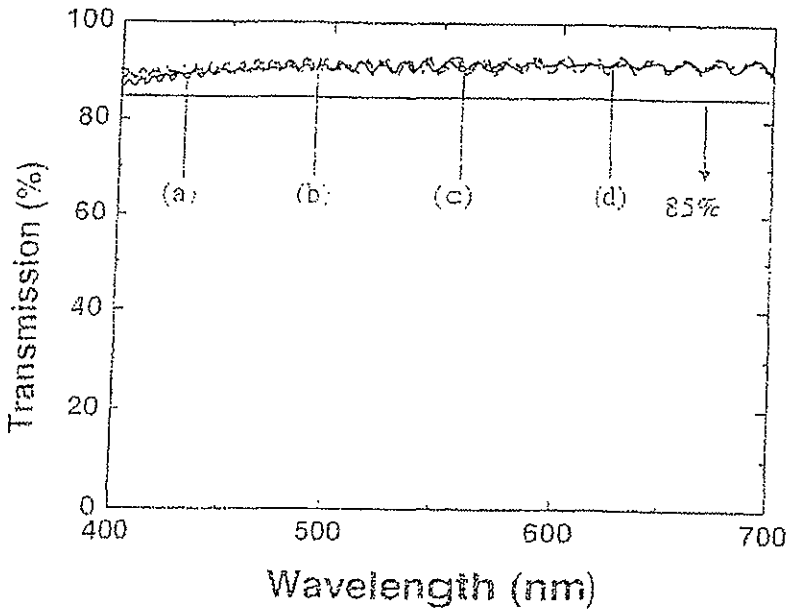

100
80
60
40
20
0
400
500
600
700
Transmission (%)
Wavelength (nm)
(a)
(b)
(c)
(d)
85%

FIG.3



FIG.4

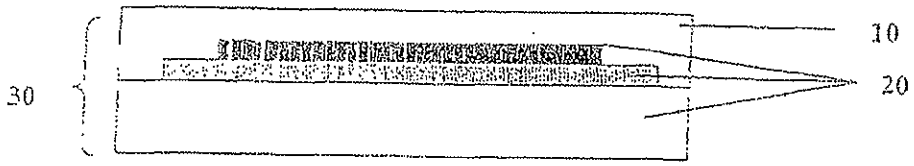


FIG.5

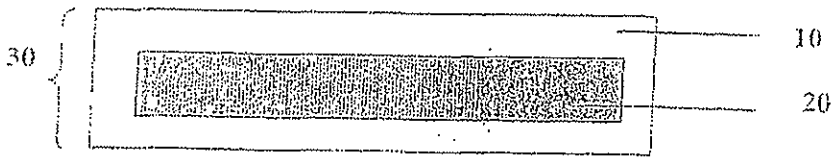


FIG.6

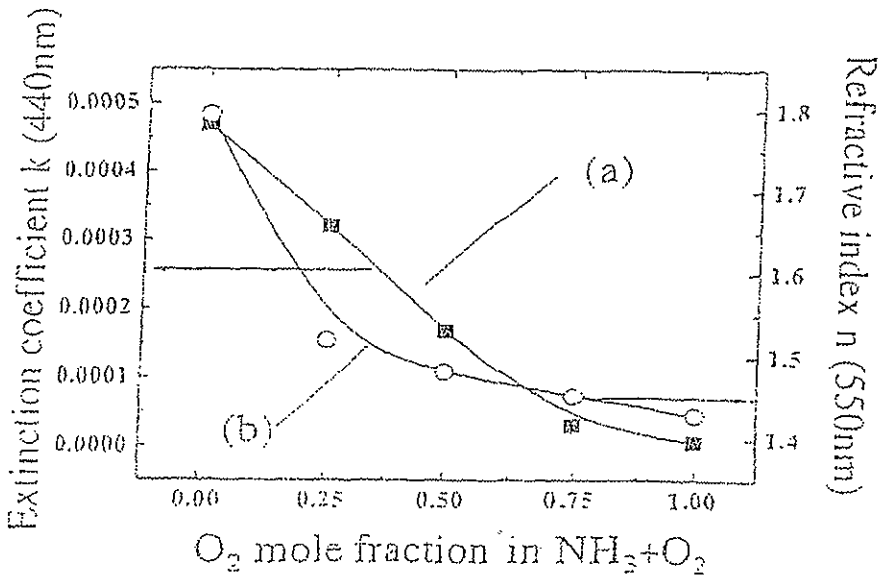

Extinction coefficient k (440nm)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
(a)
(b)
1.8
1.7
1.6
1.5
1.4
Refractive index n (550nm)
0.00
0.25
0.50
0.75
1.00
O2 mole fraction in NH3+O2

FIG.7

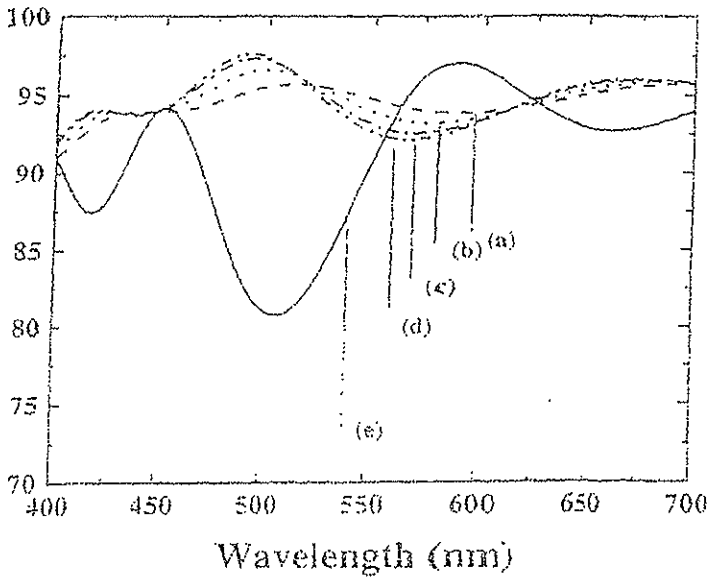
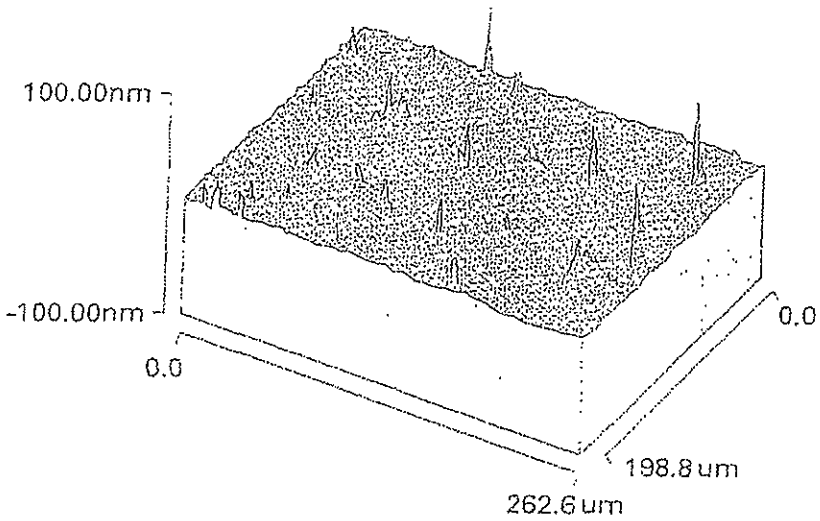
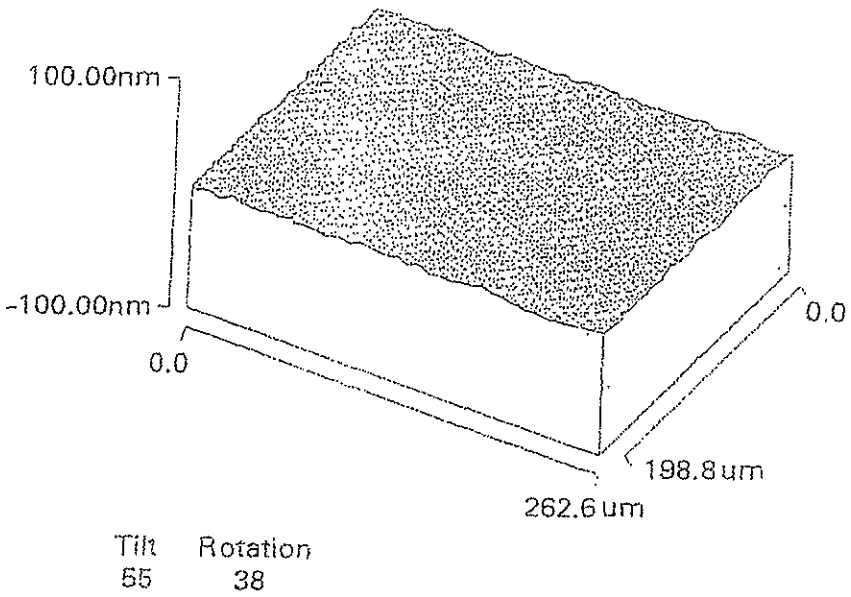

100
95
90
85
80
75
70
400
450
500
550
600
650
700
(a)
(b)
(c)
(d)
(e)
Wavelength (nm)

FIG.8



Bare Substrate

FIG.9



Substrate With A Planarizing Layer Coating

FIG.10

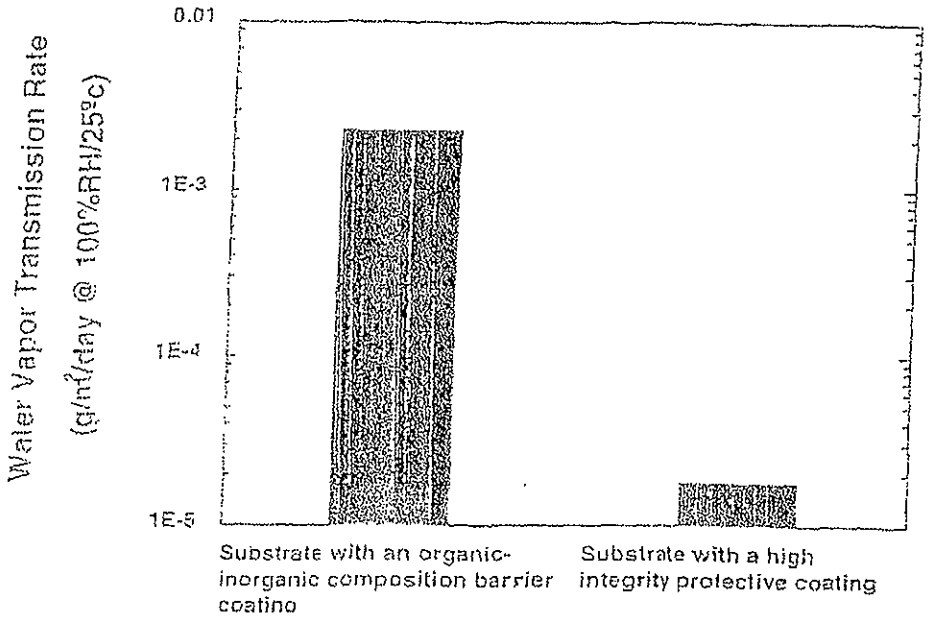

Water Vapor Transmission Rate
(g/m²/day @ 100%RH/25°c)
0.01
1E-3
1E-4
1E-5
Substrate with an organic-inorganic composition barrier coatino
Substrate with a high integrity protective coating

FIG. 11

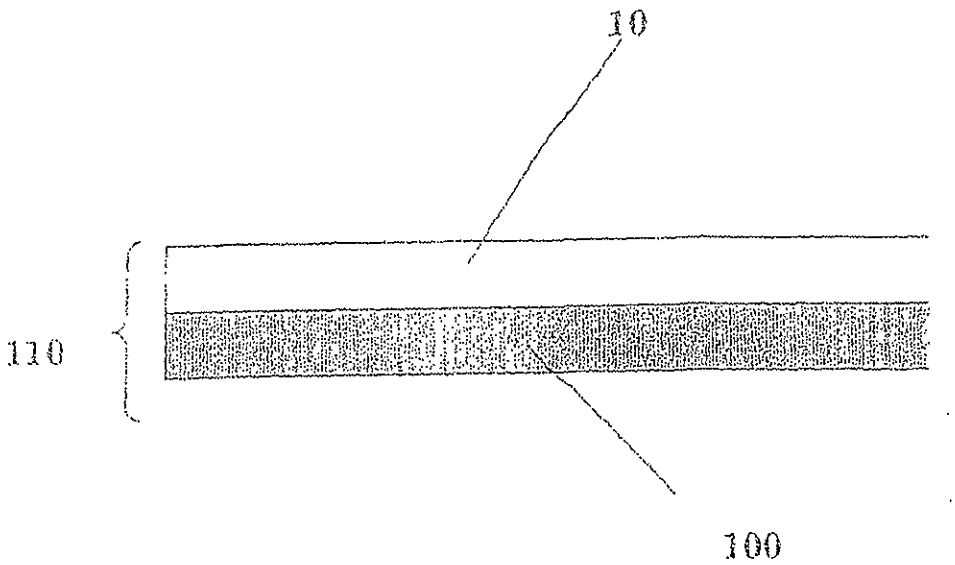


FIG.12

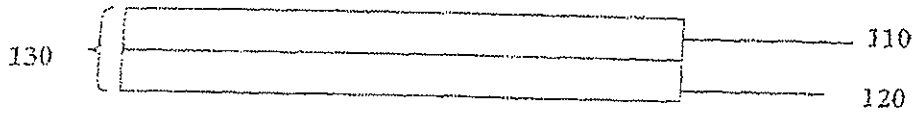


FIG.13

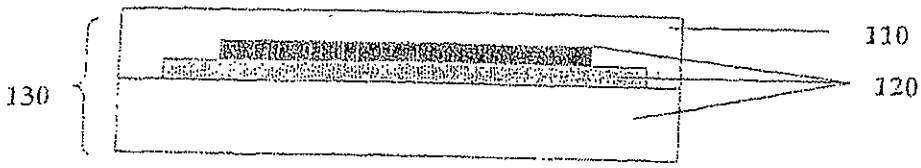


FIG.14

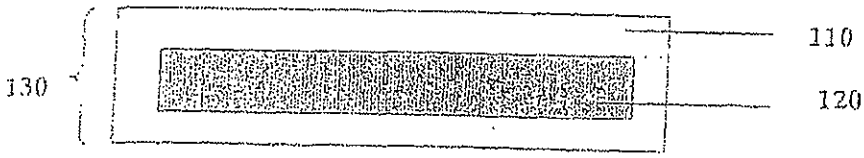


FIG.15