FIG. 1A

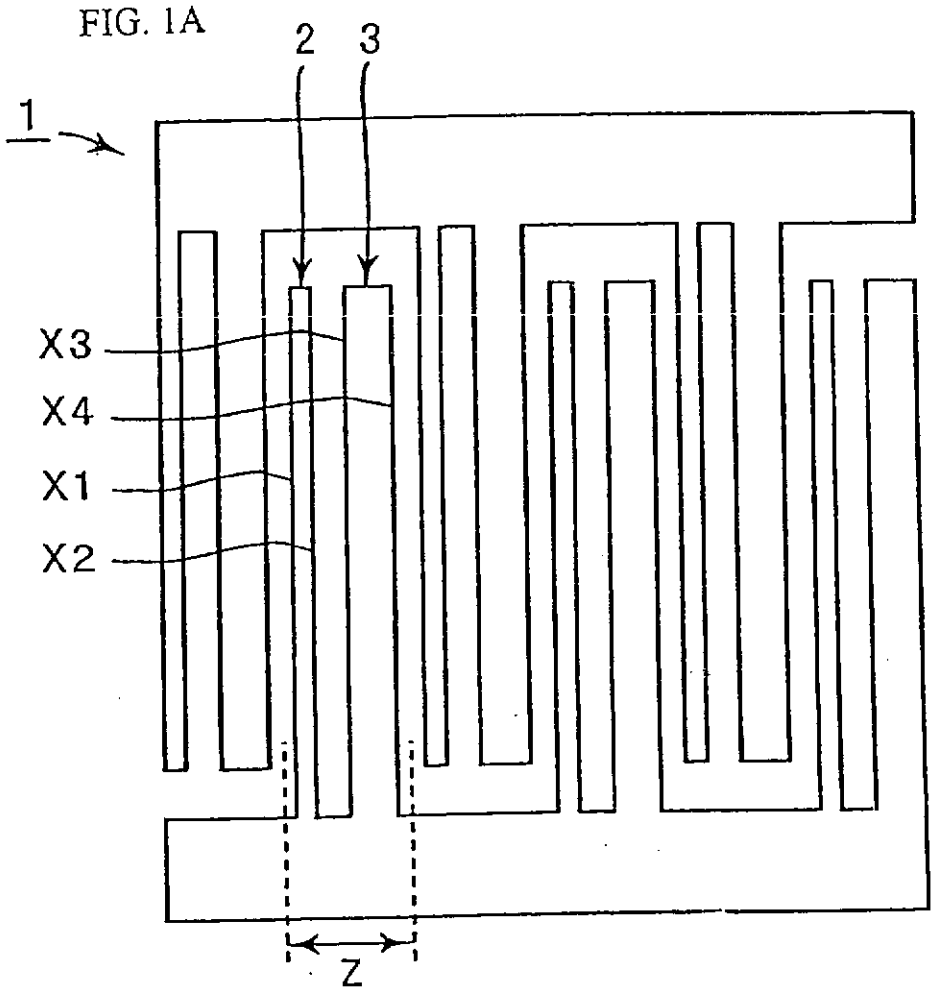


FIG. 1B

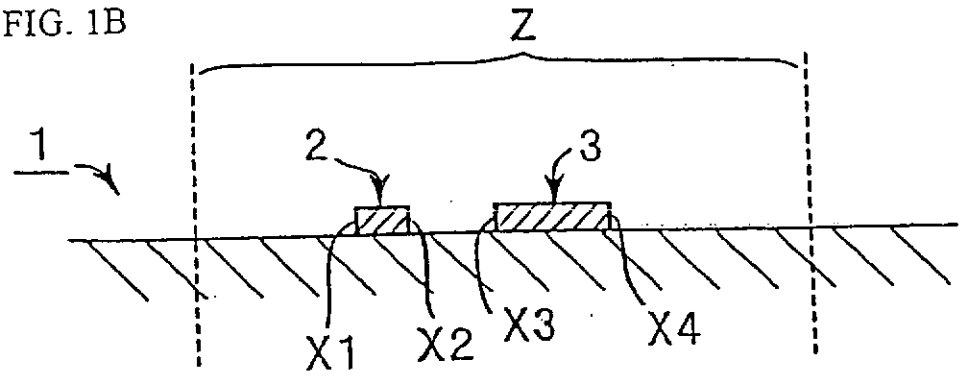


FIG. 2

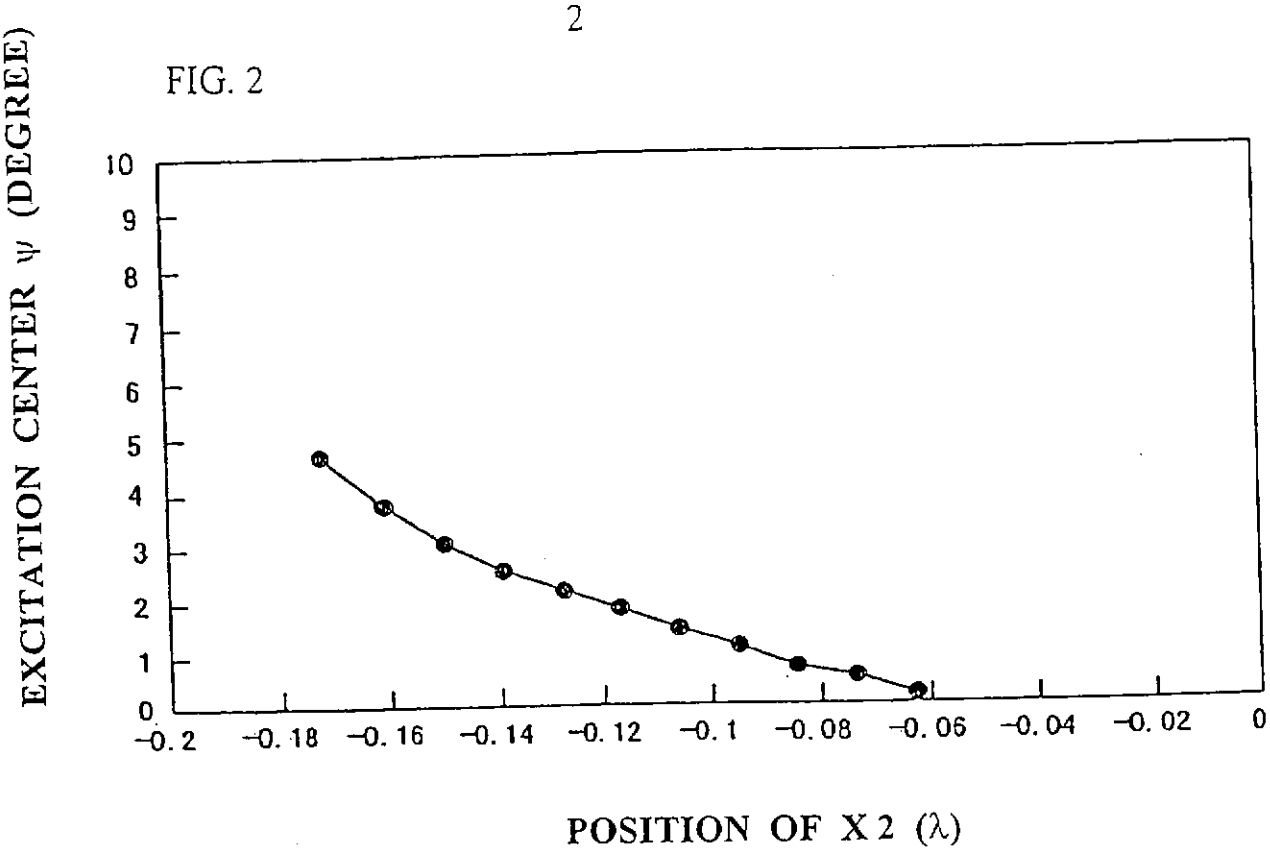

EXCITATION CENTER ψ (DEGREE)
10
9
8
7
6
5
4
3
2
1
0
-0.2
-0.18
-0.16
-0.14
-0.12
-0.1
-0.08
-0.06
-0.04
-0.02
0
POSITION OF X2 (λ)

FIG. 3

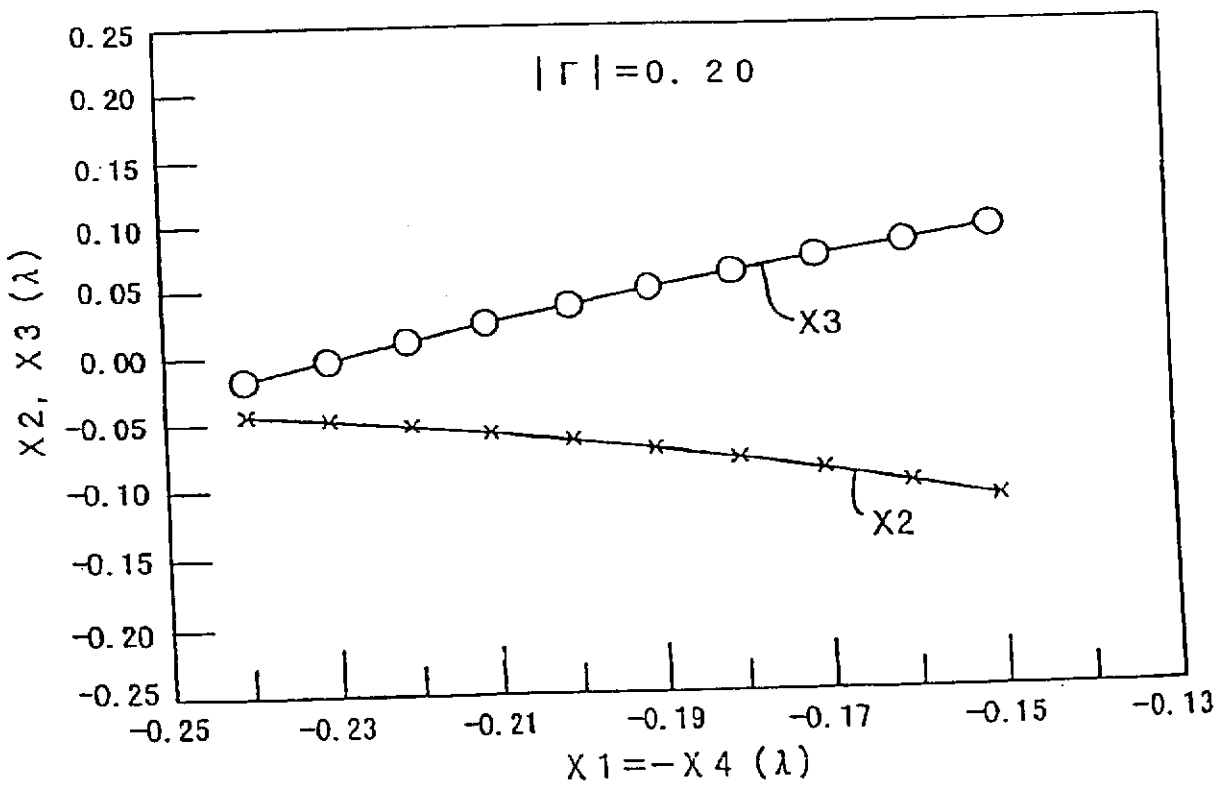

|Γ|=0.20
X2, X3 (λ)
0.25
0.20
0.15
0.10
0.05
0.00
-0.05
-0.10
-0.15
-0.20
-0.25
X3
X2
-0.25
-0.23
-0.21
-0.19
-0.17
-0.15
-0.13
X1=-X4 (λ)

FIG. 4

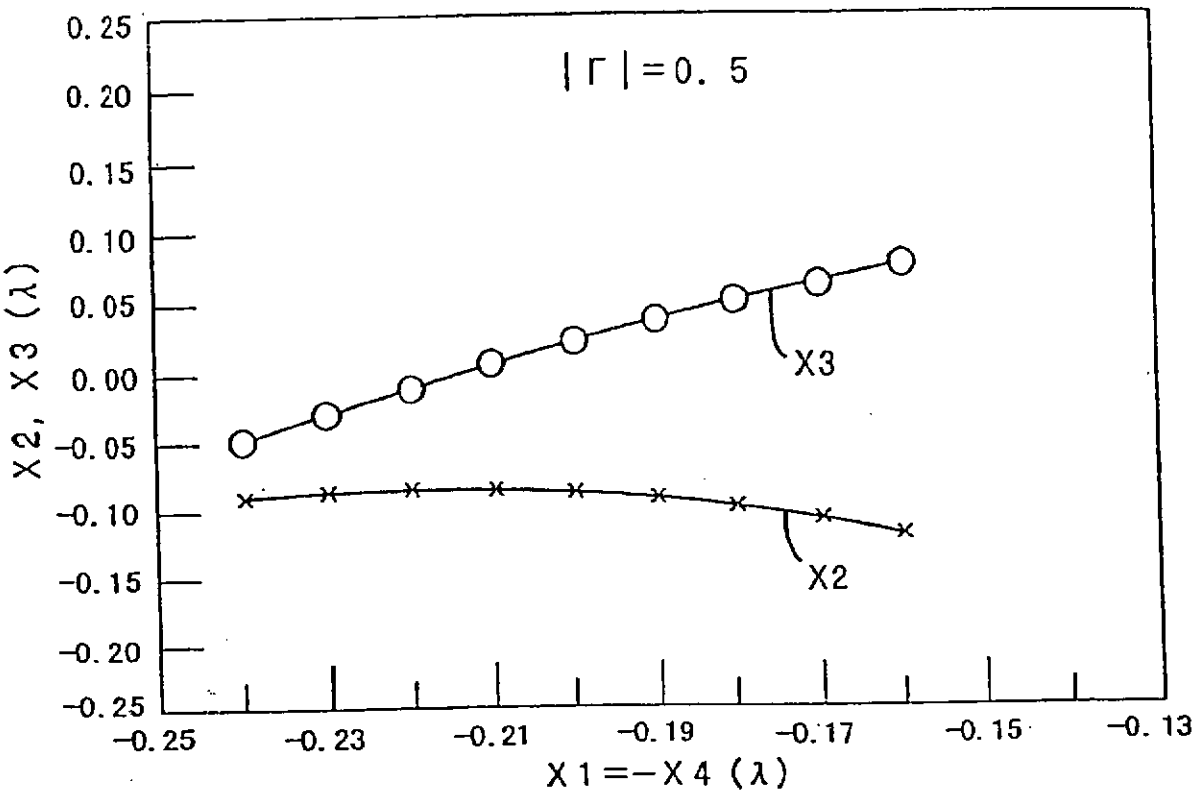

|Γ|=0.5
X3
X2
X2, X3 (λ)
X1=−X4 (λ)
0.25
0.20
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
−0.25
−0.23
−0.21
−0.19
−0.17
−0.15
−0.13

FIG. 5

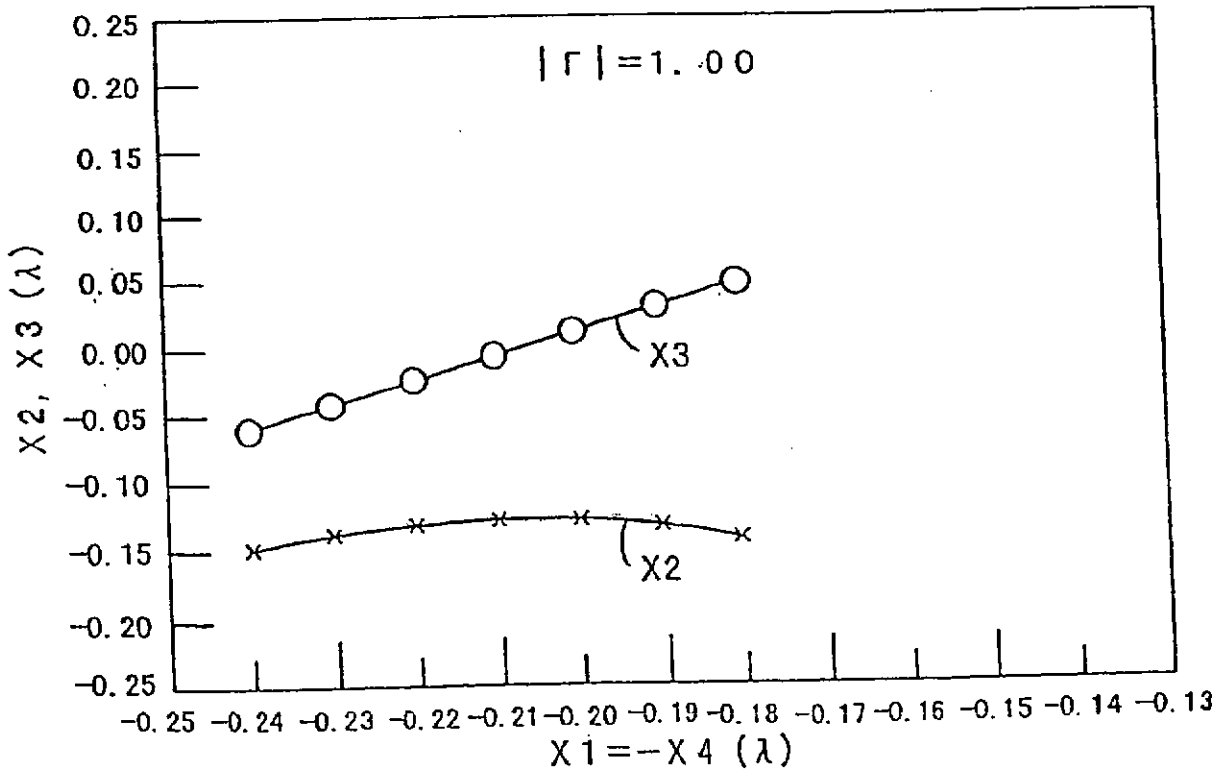

|Γ|=1.00
X3
X2
X2, X3 (λ)
X1=−X4 (λ)
0.25
0.20
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
−0.25 −0.24 −0.23 −0.22 −0.21 −0.20 −0.19 −0.18 −0.17 −0.16 −0.15 −0.14 −0.13

FIG. 6

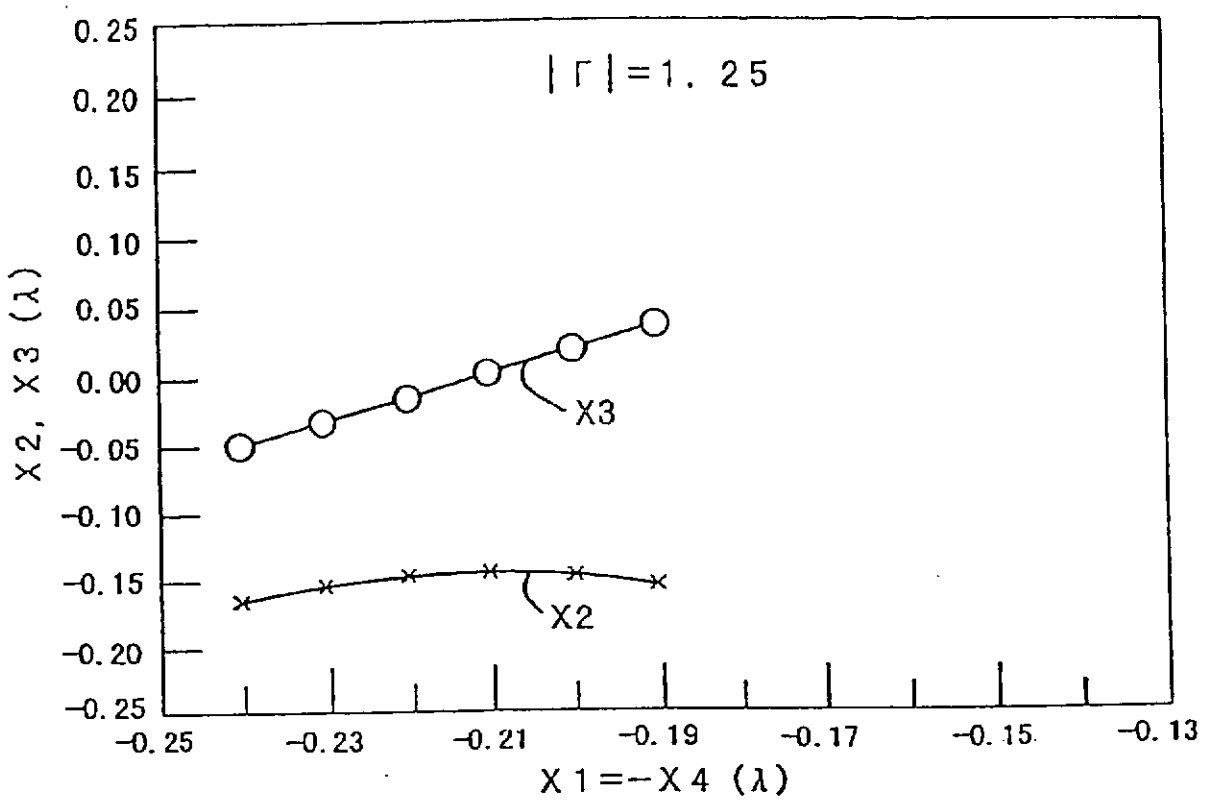

|Γ|=1.25
X2, X3 (λ)
0.25
0.20
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
X3
X2
−0.25
−0.23
−0.21
−0.19
−0.17
−0.15
−0.13
X1=−X4 (λ)

FIG. 7

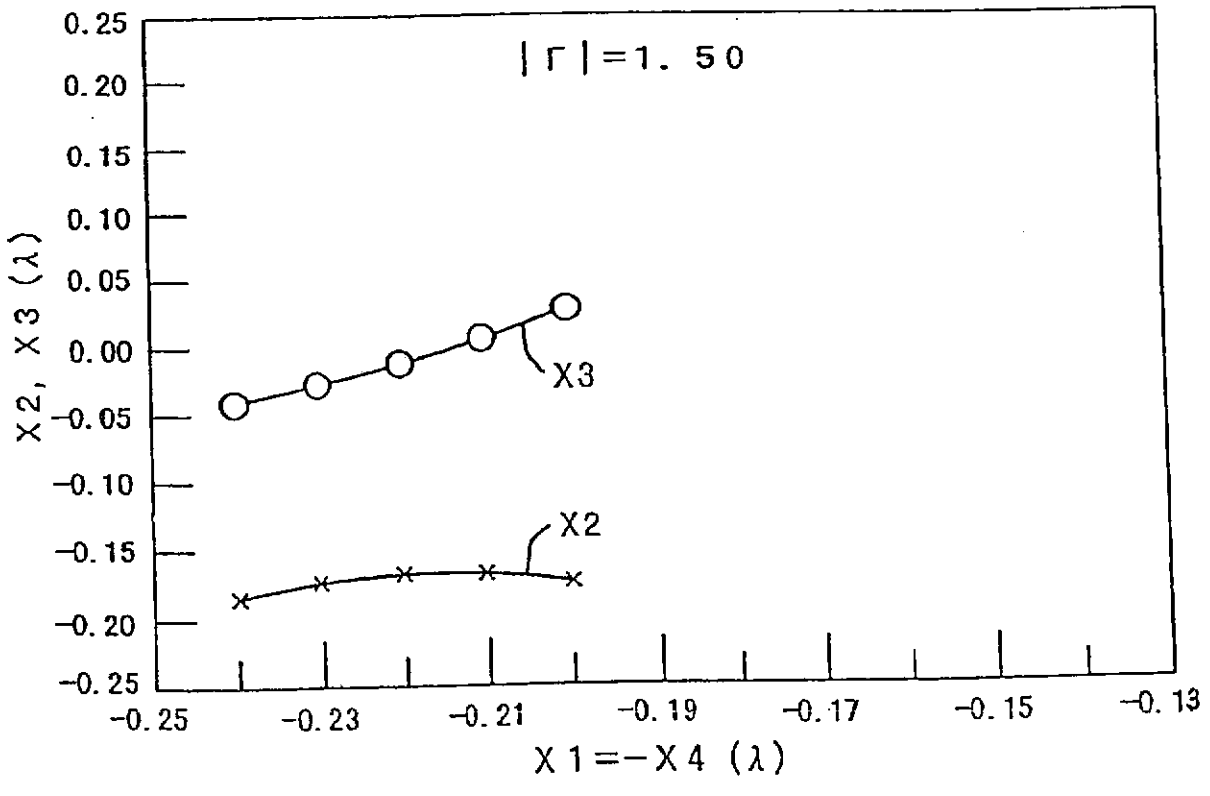

|Γ|=1.50
X2, X3 (λ)
0.25
0.20
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
X3
X2
−0.25
−0.23
−0.21
−0.19
−0.17
−0.15
−0.13
X1=−X4 (λ)

FIG. 8

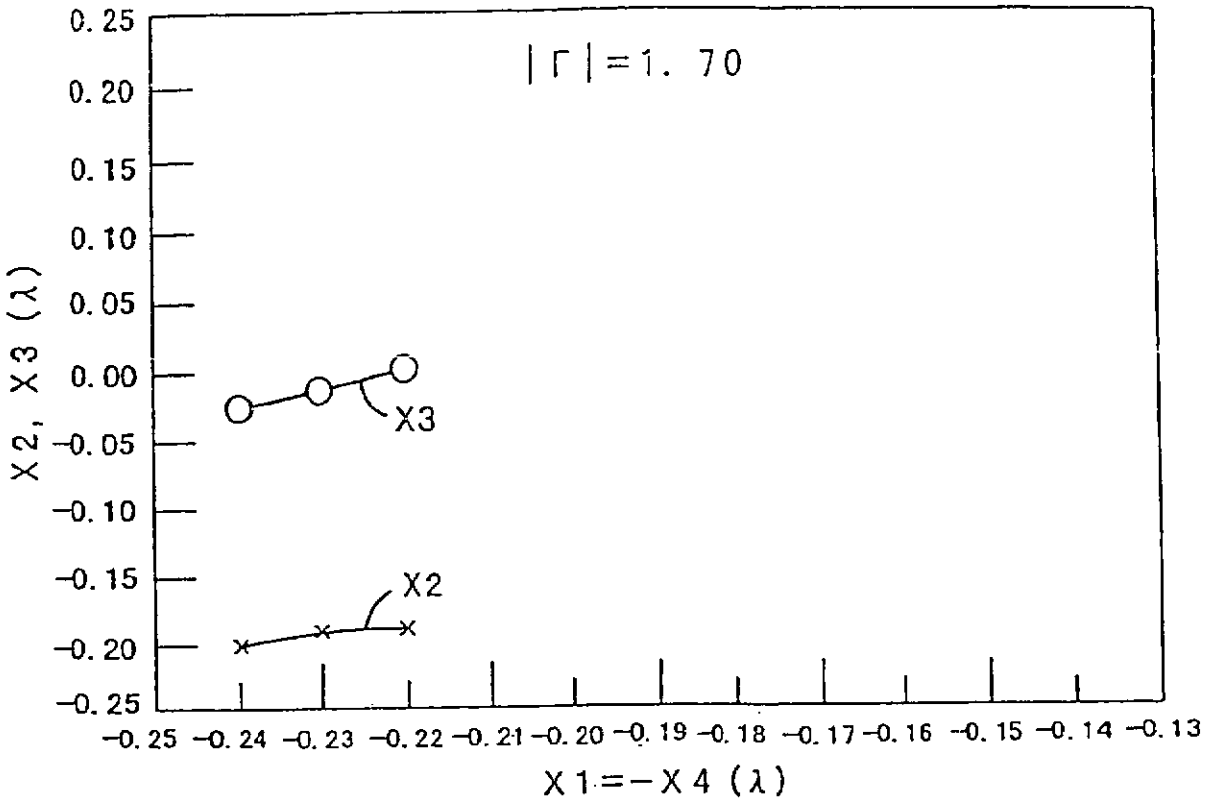

|Γ|=1.70
X2, X3 (λ)
0.25
0.20
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
X3
X2
−0.25 −0.24 −0.23 −0.22 −0.21 −0.20 −0.19 −0.18 −0.17 −0.16 −0.15 −0.14 −0.13
X1=−X4 (λ)

FIG. 9

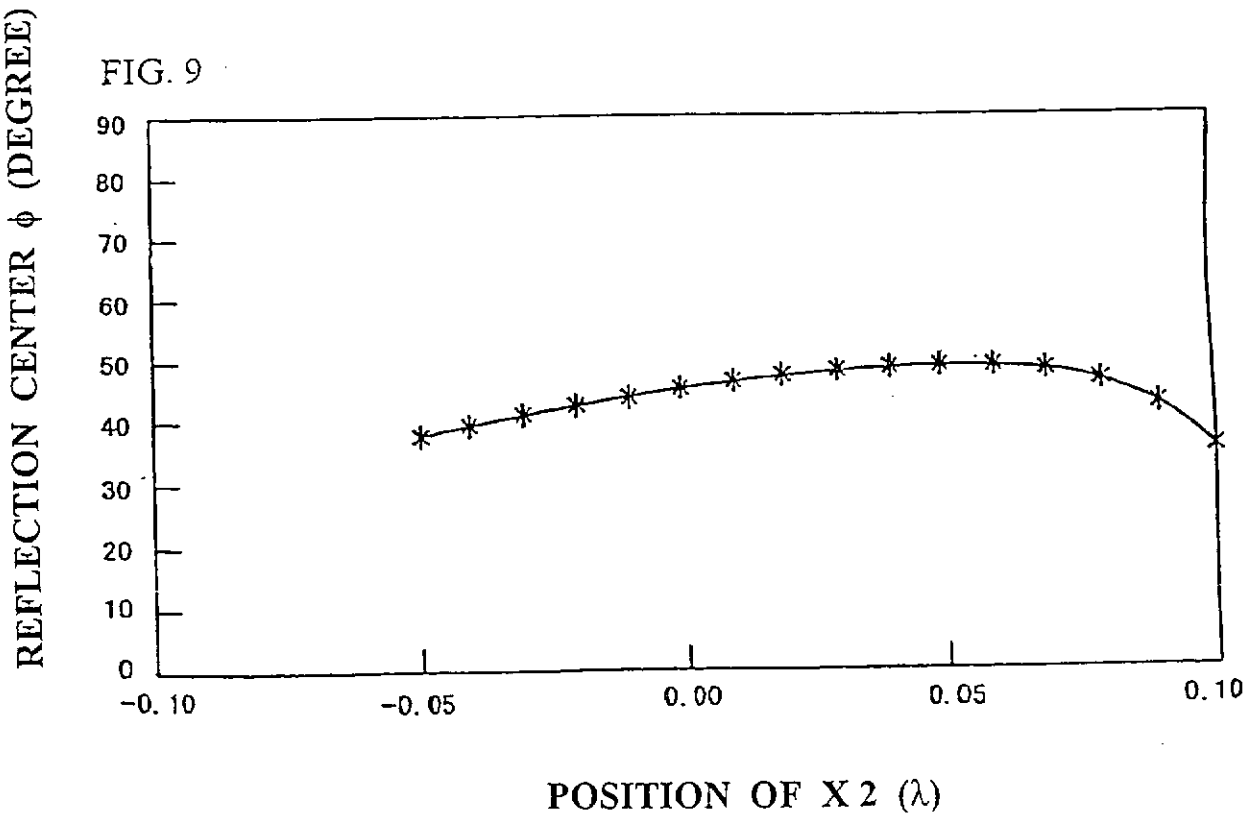

REFLECTION CENTER φ (DEGREE)
90
80
70
60
50
40
30
20
10
0
−0.10
−0.05
0.00
0.05
0.10
POSITION OF X2 (λ)

FIG. 10

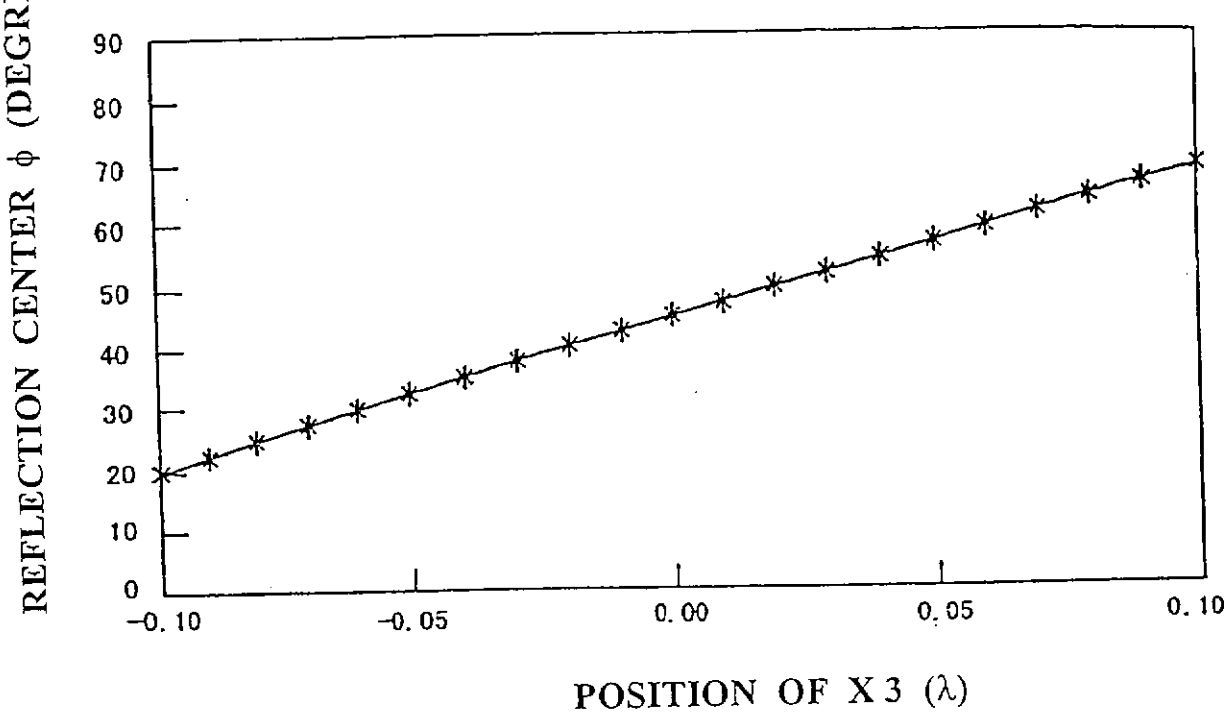

REFLECTION CENTER ϕ (DEGREE)
90
80
70
60
50
40
30
20
10
0
−0.10
−0.05
0.00
0.05
0.10
POSITION OF X3 (λ)

FIG. 11

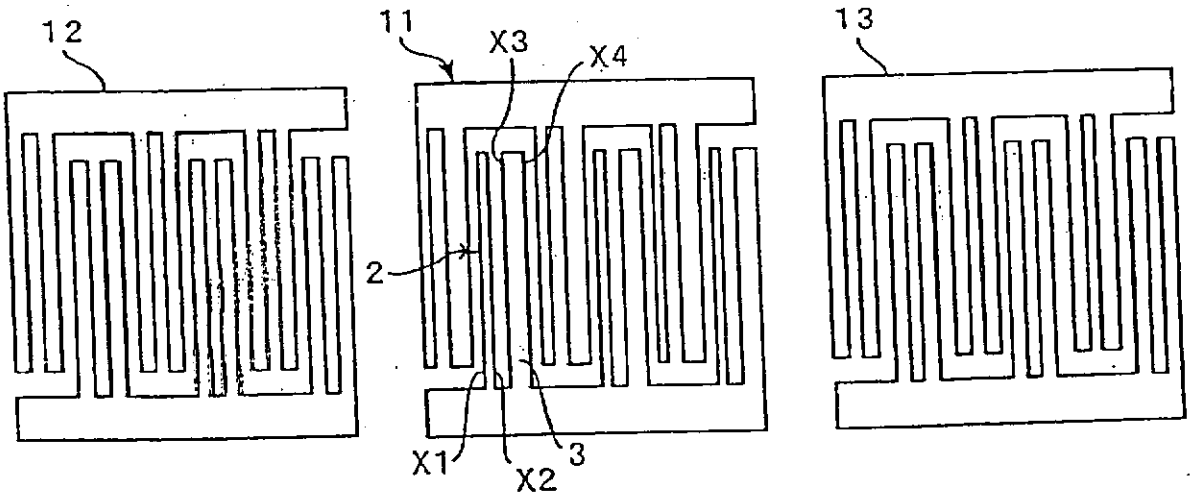

12
11
X3
X4
13
2
X1
X2
3

FIG. 12

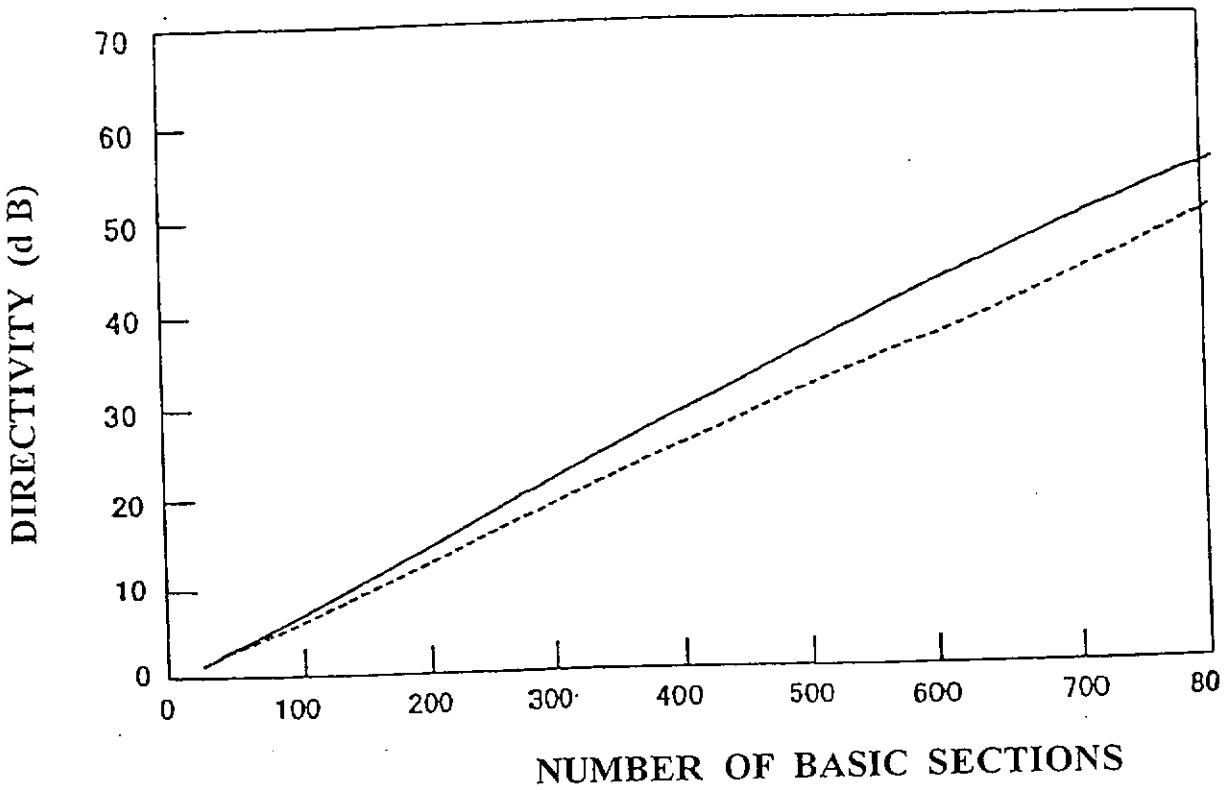

DIRECTIVITY (d B)
70
60
50
40
30
20
10
0
0
100
200
300
400
500
600
700
80
NUMBER OF BASIC SECTIONS

FIG. 13

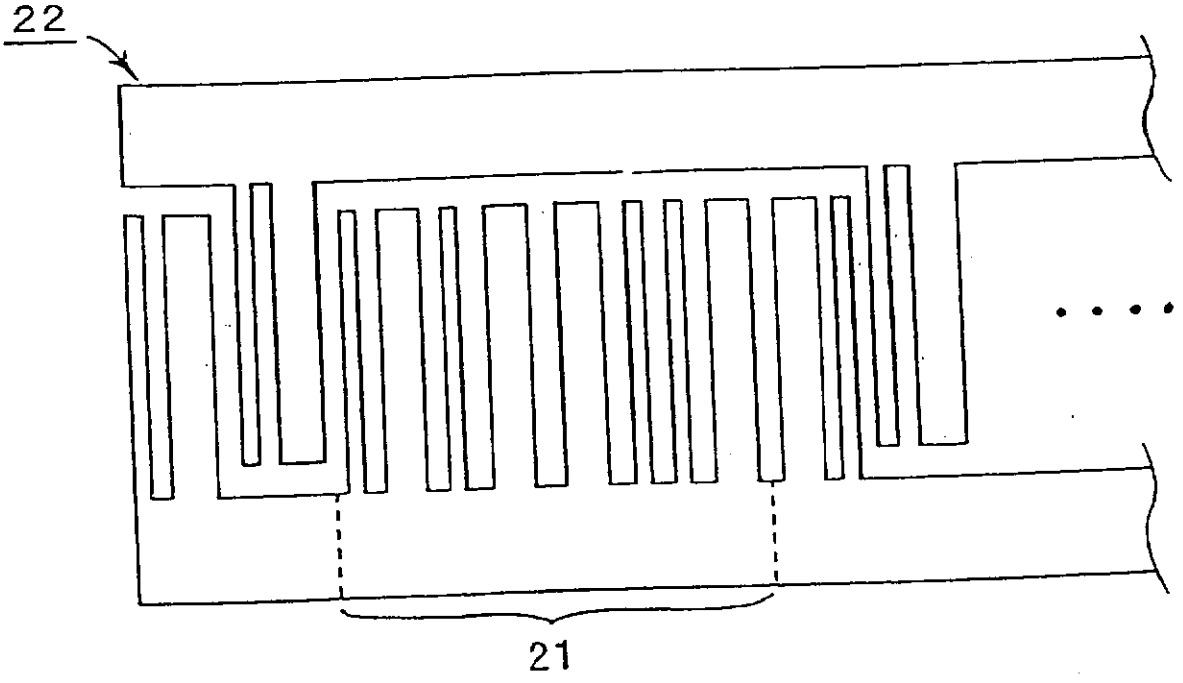

22
21

FIG. 14

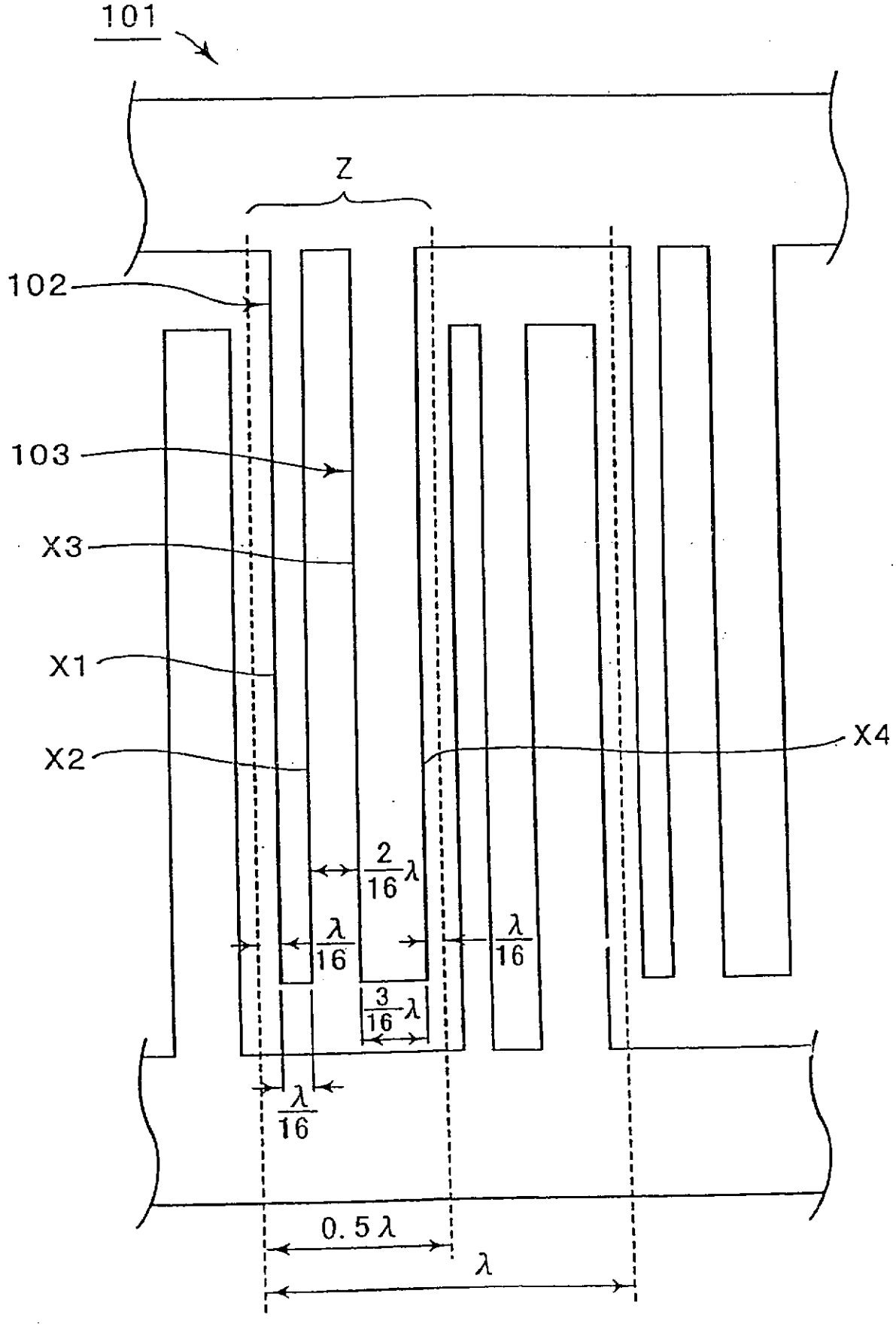


FIG. 15

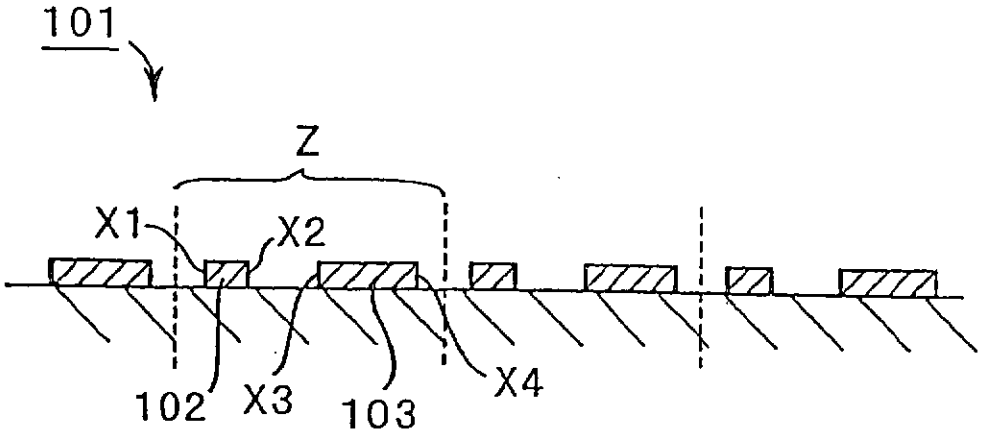


FIG. 16

