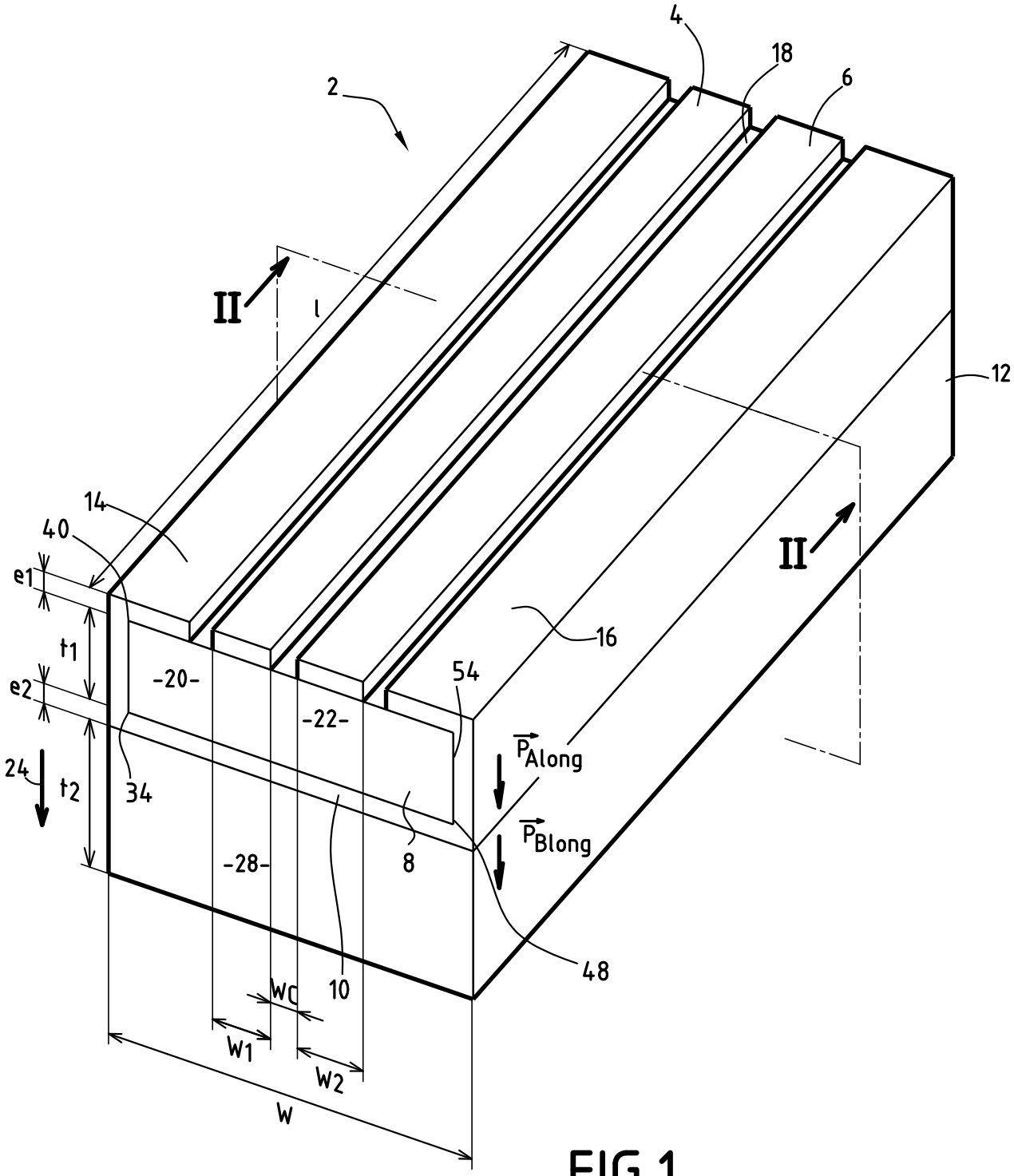

4
18
6
2
II
l
12
14
40
e1
t1
e2
t2
24
34
-20-
-22-
-28-
54
16
II
$\vec{P}_{Along}$
$\vec{P}_{Blong}$
8
48
10
Wc
W1
W2
W

FIG.1

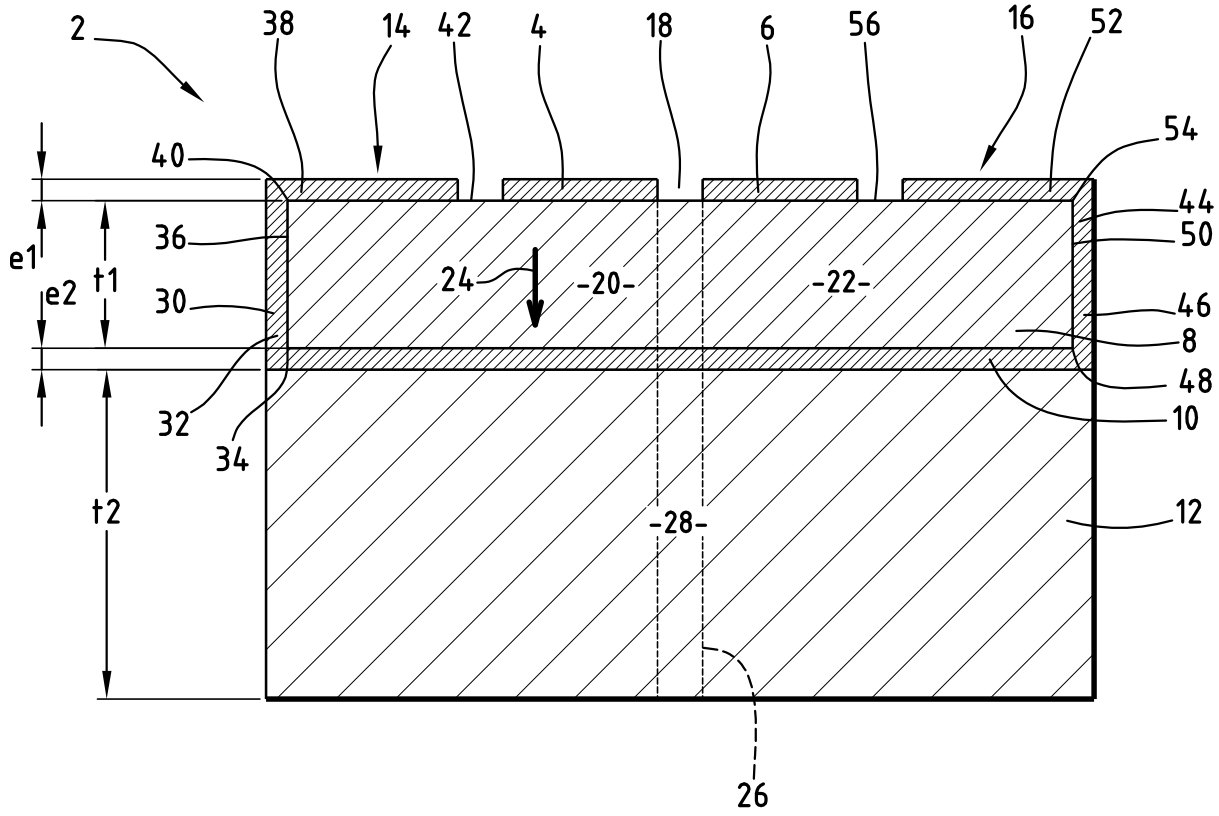

2
38
14
42
4
18
6
56
16
52
54
40
44
36
50
e1
t1
e2
24
-20-
-22-
30
46
8
48
32
34
10
t2
-28-
12
26

FIG.2

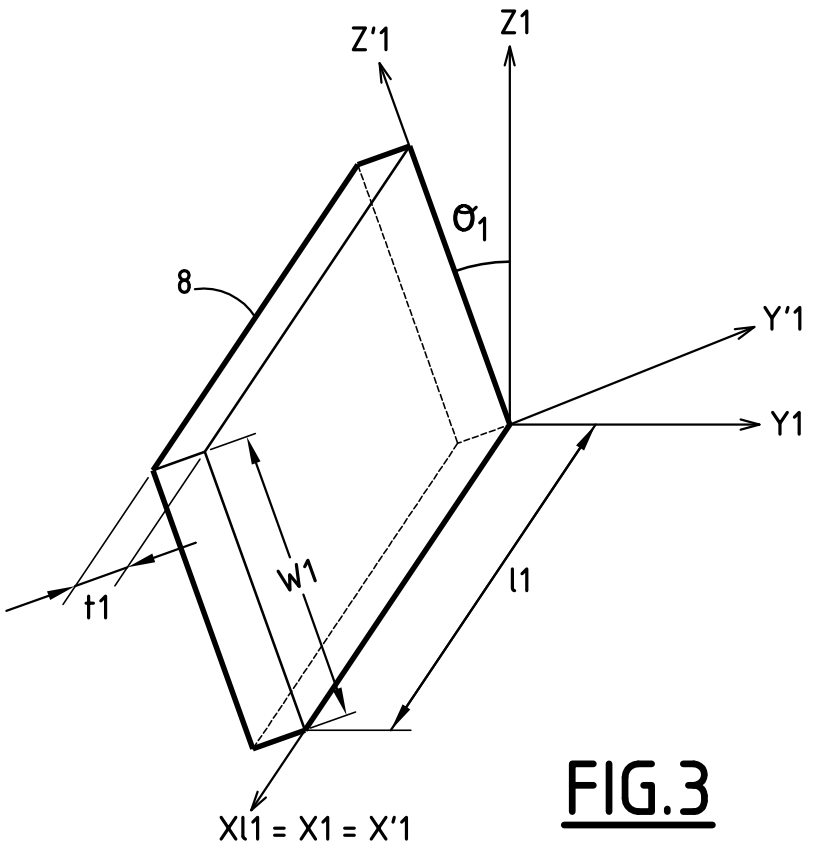

Z'1
Z1
σ1
8
Y'1
Y1
W1
l1
t1
Xl1 = X1 = X'1

FIG.3

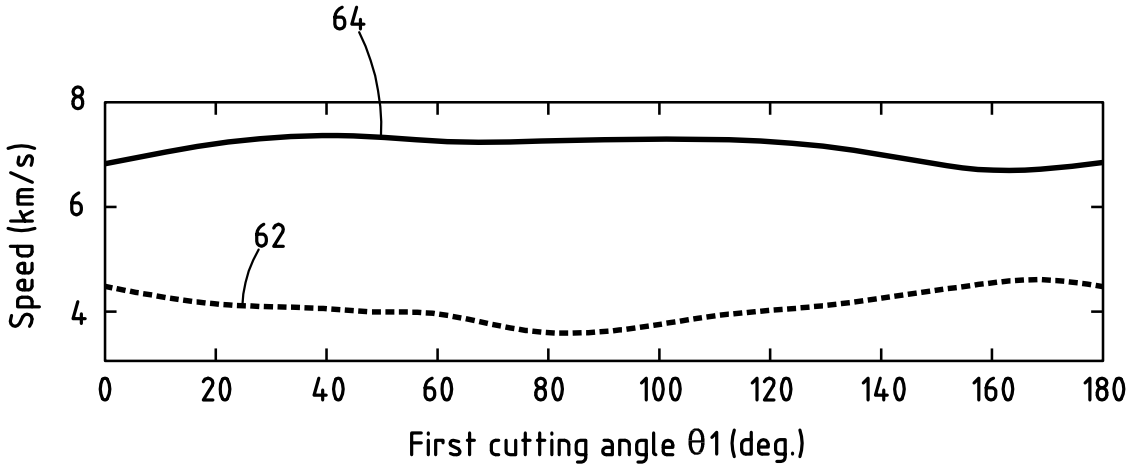

64
62
8
6
4
Speed (km/s)
0
20
40
60
80
100
120
140
160
180
First cutting angle θ1 (deg.)

FIG.4

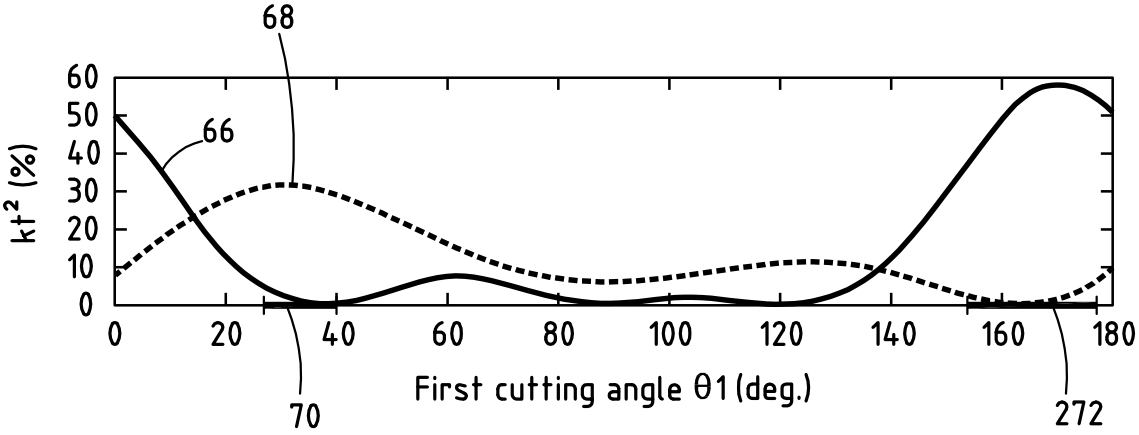

68
66
60
50
40
30
20
10
0
kt^2 (%)
0
20
40
60
80
100
120
140
160
180
First cutting angle θ1 (deg.)
70
272

FIG.5

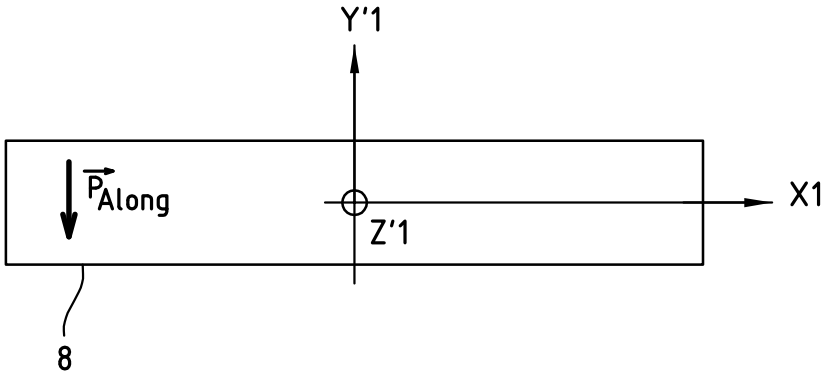

Y'1
$\vec{P}_{Along}$
X1
Z'1
8

FIG.6

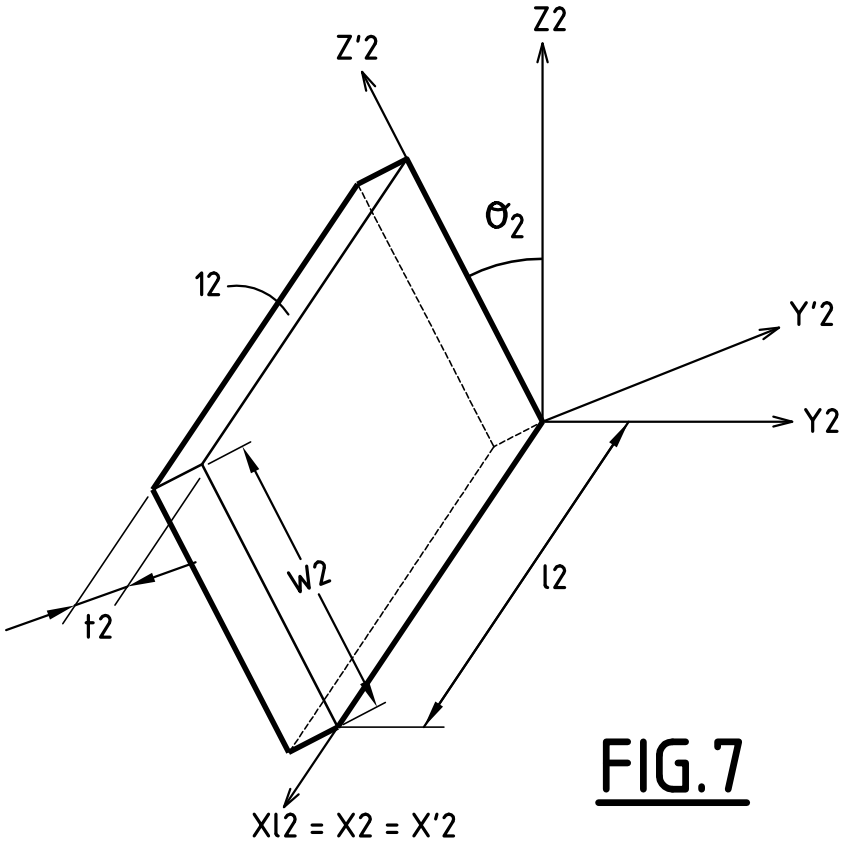


FIG.7

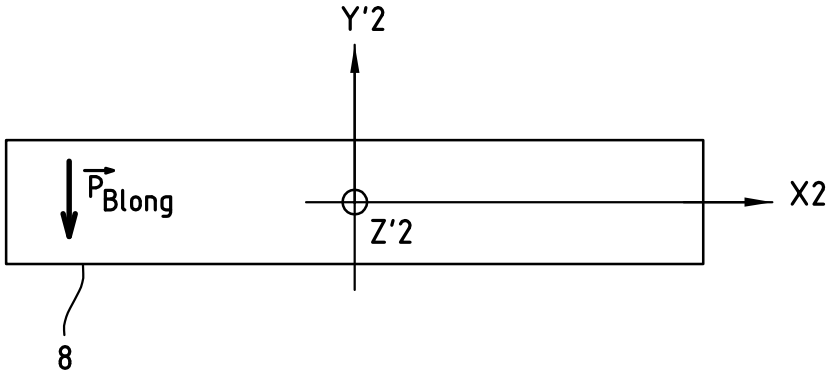


FIG.8

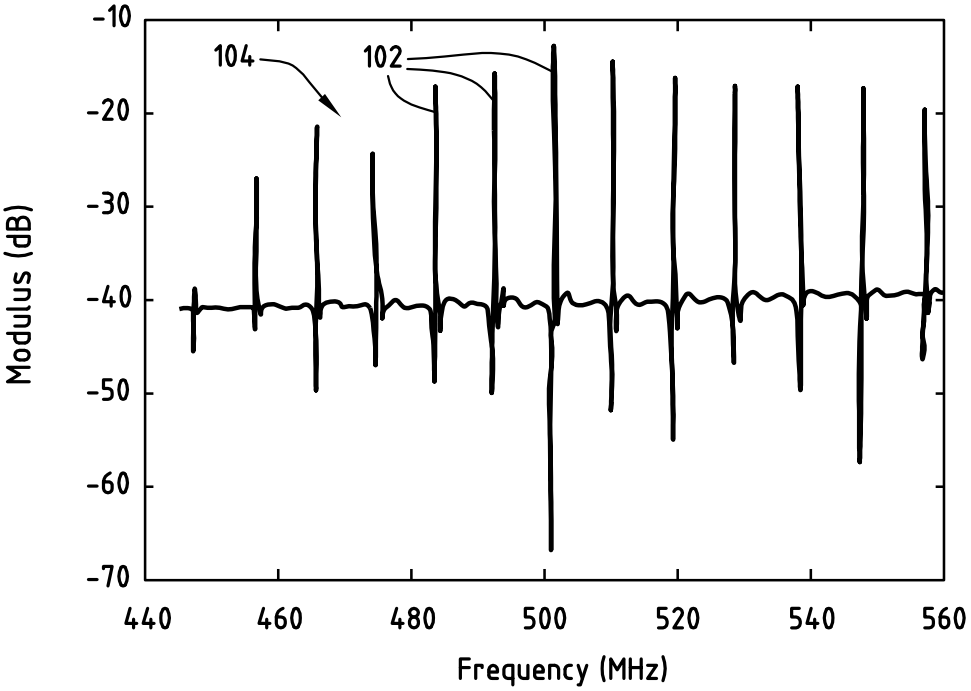

104
102
-10
-20
-30
-40
-50
-60
-70
Modulus (dB)
440
460
480
500
520
540
560
Frequency (MHz)

FIG.9

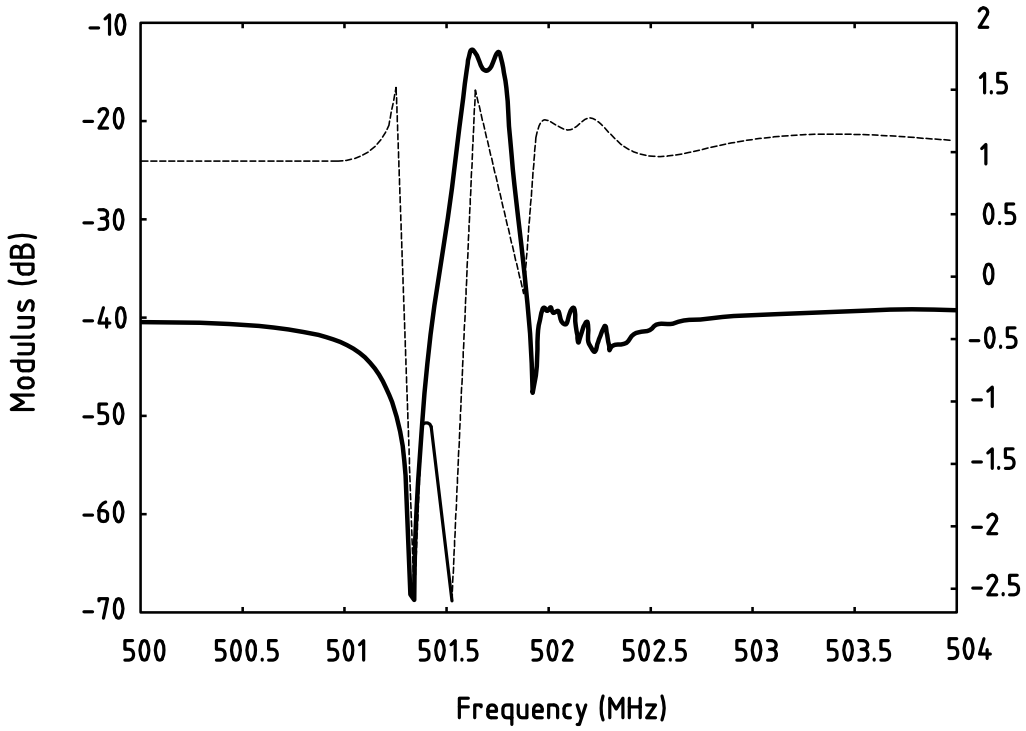

-10
-20
-30
-40
-50
-60
-70
Modulus (dB)
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
500
500.5
501
501.5
502
502.5
503
503.5
504
Frequency (MHz)

FIG.10

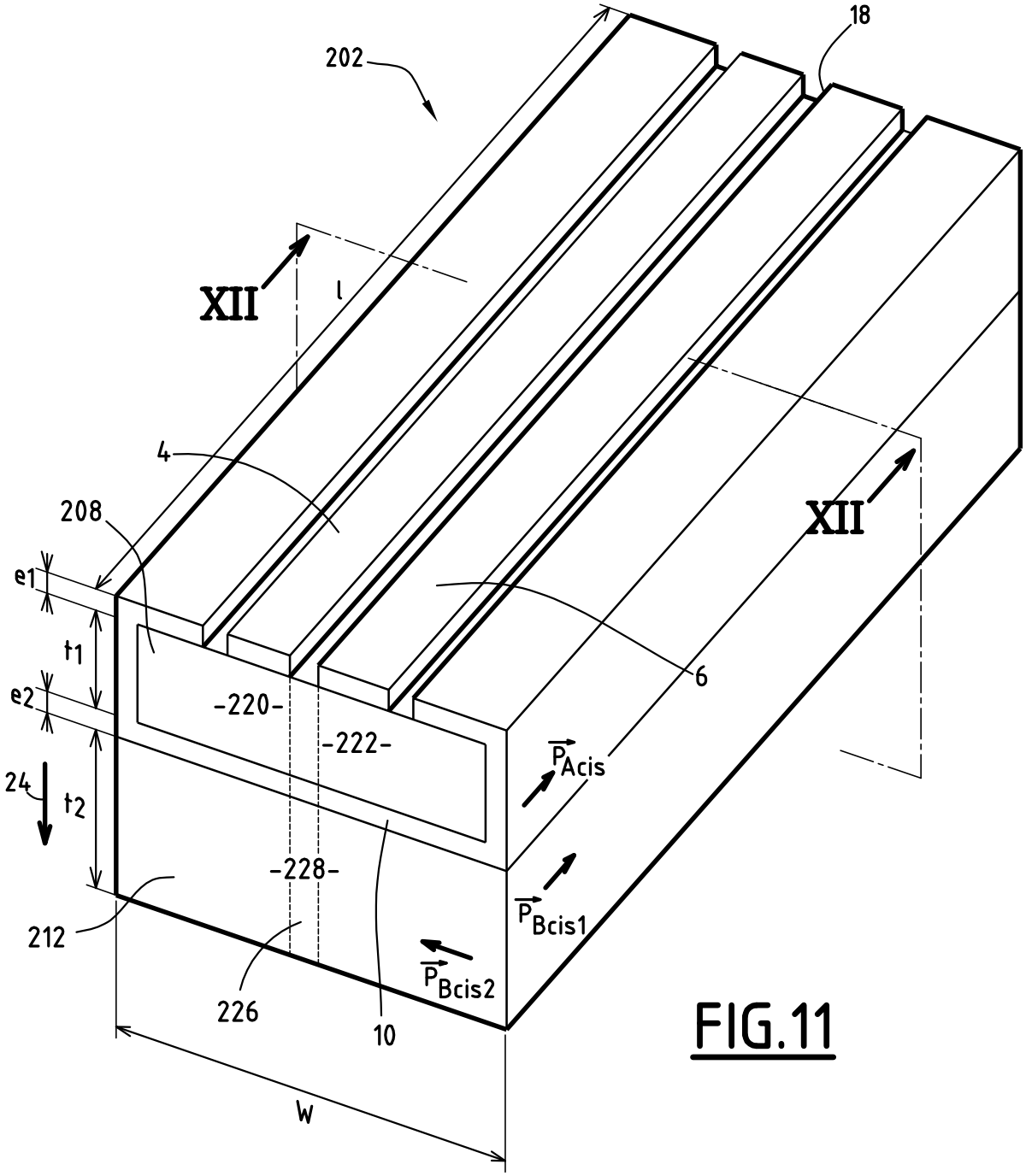

202
18
XII
l
4
208
XII
e1
t1
e2
-220-
-222-
6
24
t2
$\vec{P}_{Acis}$
-228-
$\vec{P}_{Bcis1}$
212
$\vec{P}_{Bcis2}$
226
10
W

FIG.11

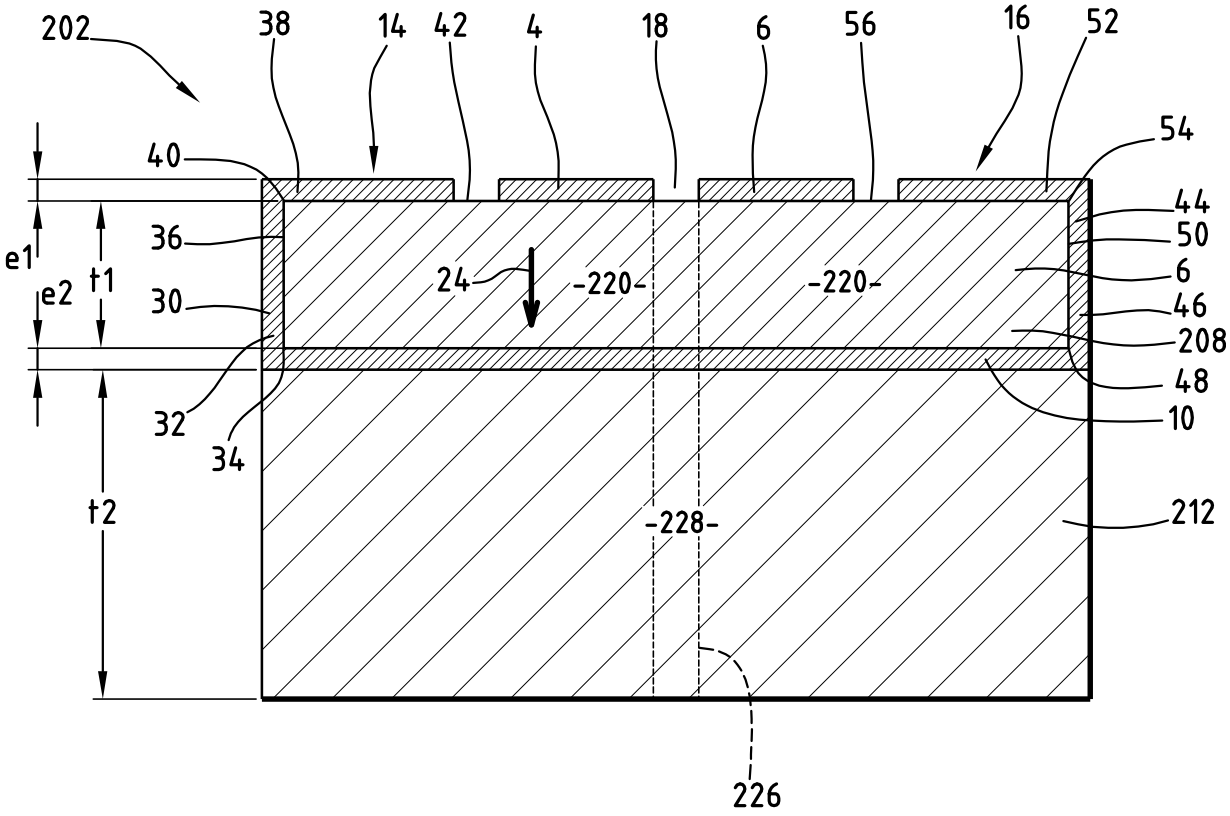

202
38
14
42
4
18
6
56
16
52
54
40
44
36
50
e1
e2
t1
24
-220-
-220-
6
30
46
208
48
32
34
10
t2
-228-
212
226

FIG.12

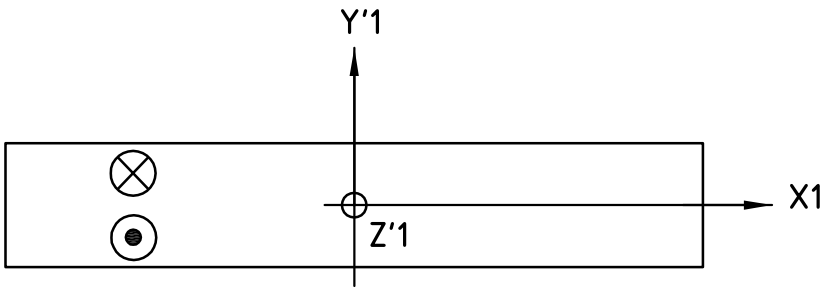


FIG.13

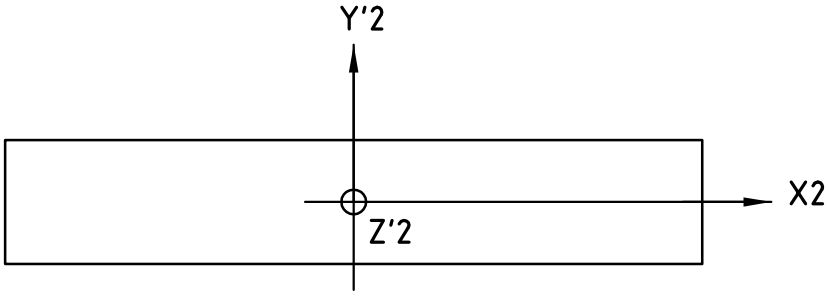


FIG.14

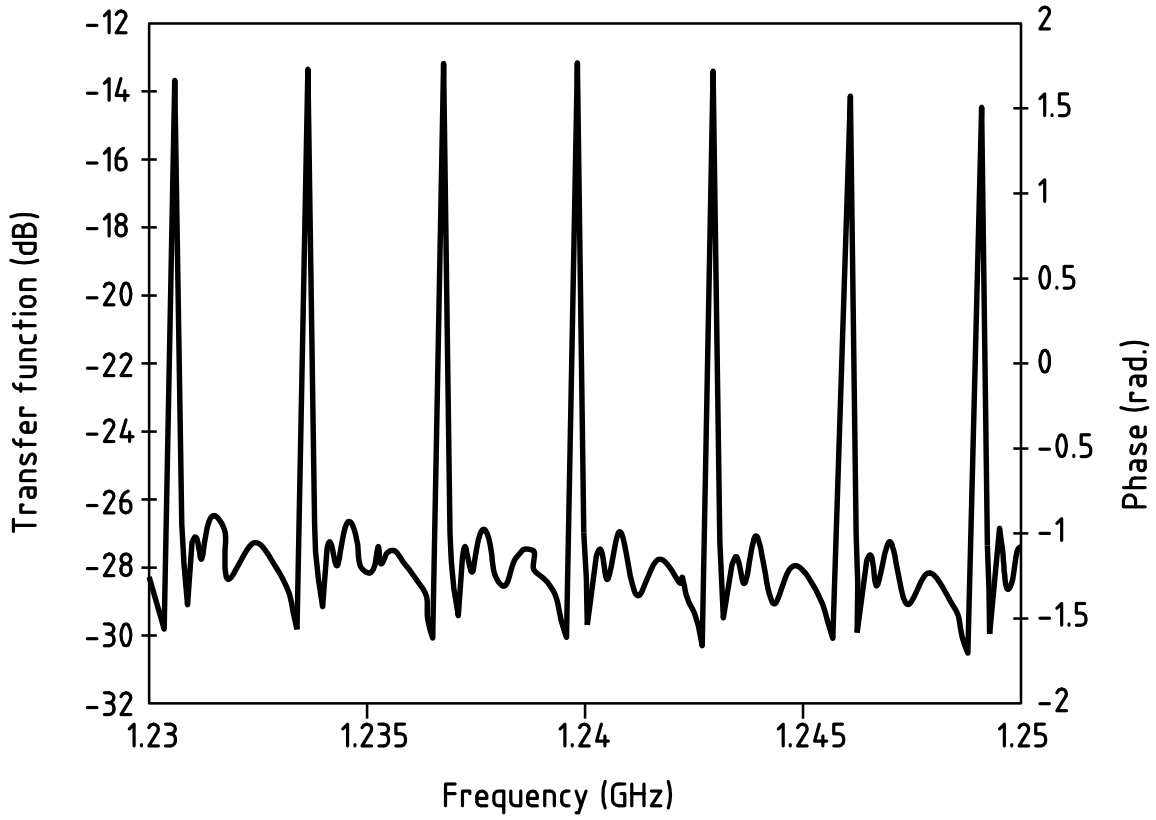

-12
-14
-16
-18
-20
-22
-24
-26
-28
-30
-32
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
1.23
1.235
1.24
1.245
1.25
Transfer function (dB)
Phase (rad.)
Frequency (GHz)

FIG.15

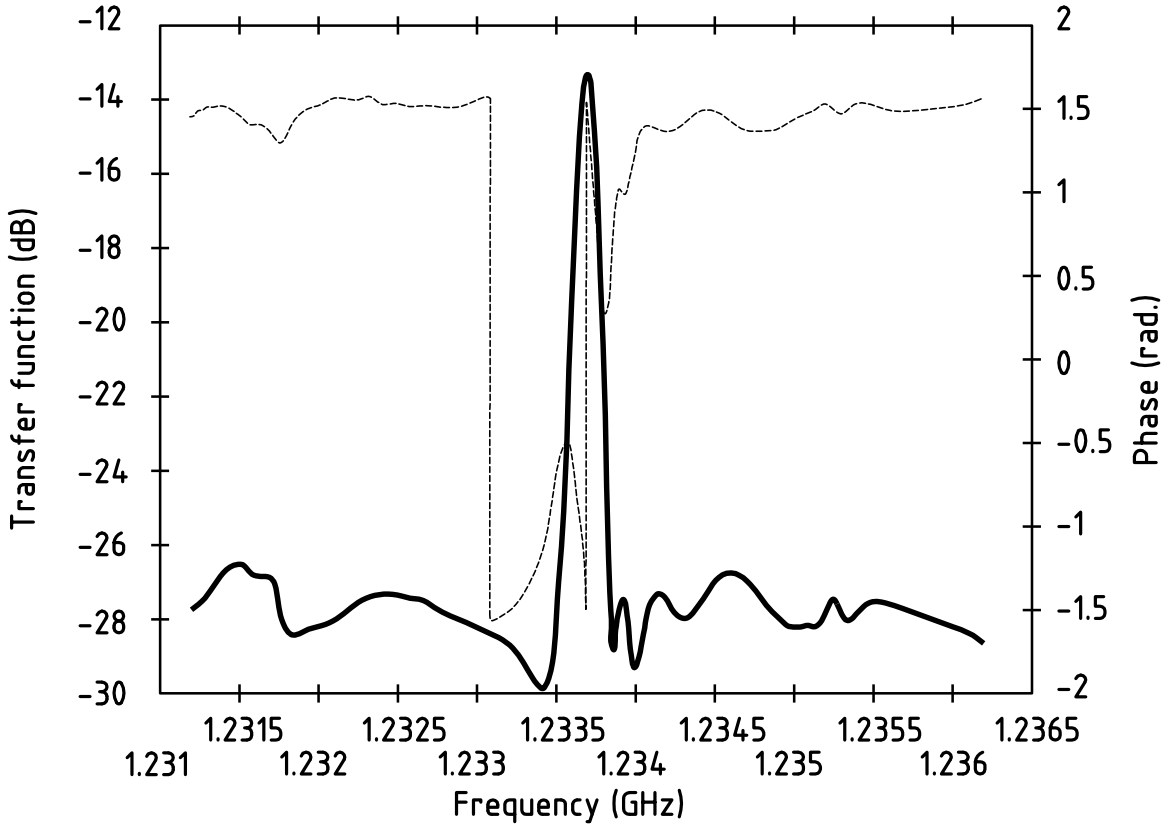

-12
-14
-16
-18
-20
-22
-24
-26
-28
-30
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
1.231
1.232
1.233
1.234
1.235
1.236
1.2315
1.2325
1.2335
1.2345
1.2355
1.2365
Transfer function (dB)
Phase (rad.)
Frequency (GHz)

FIG.16

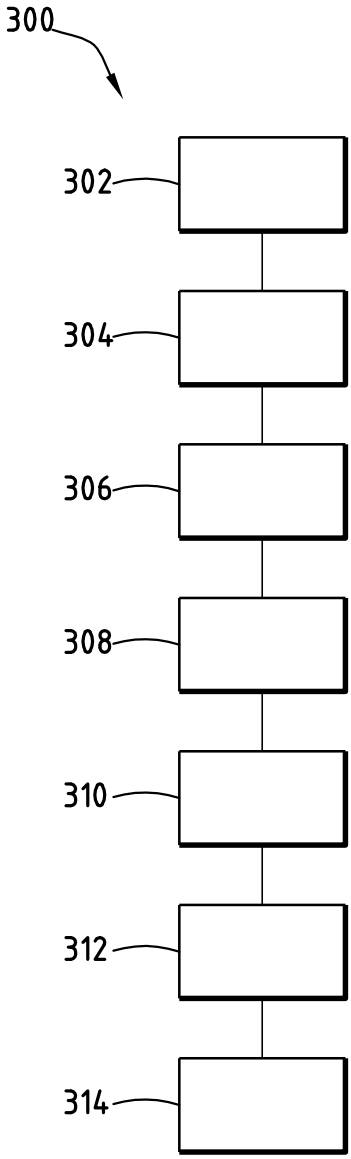


FIG.17