FIG. 1A

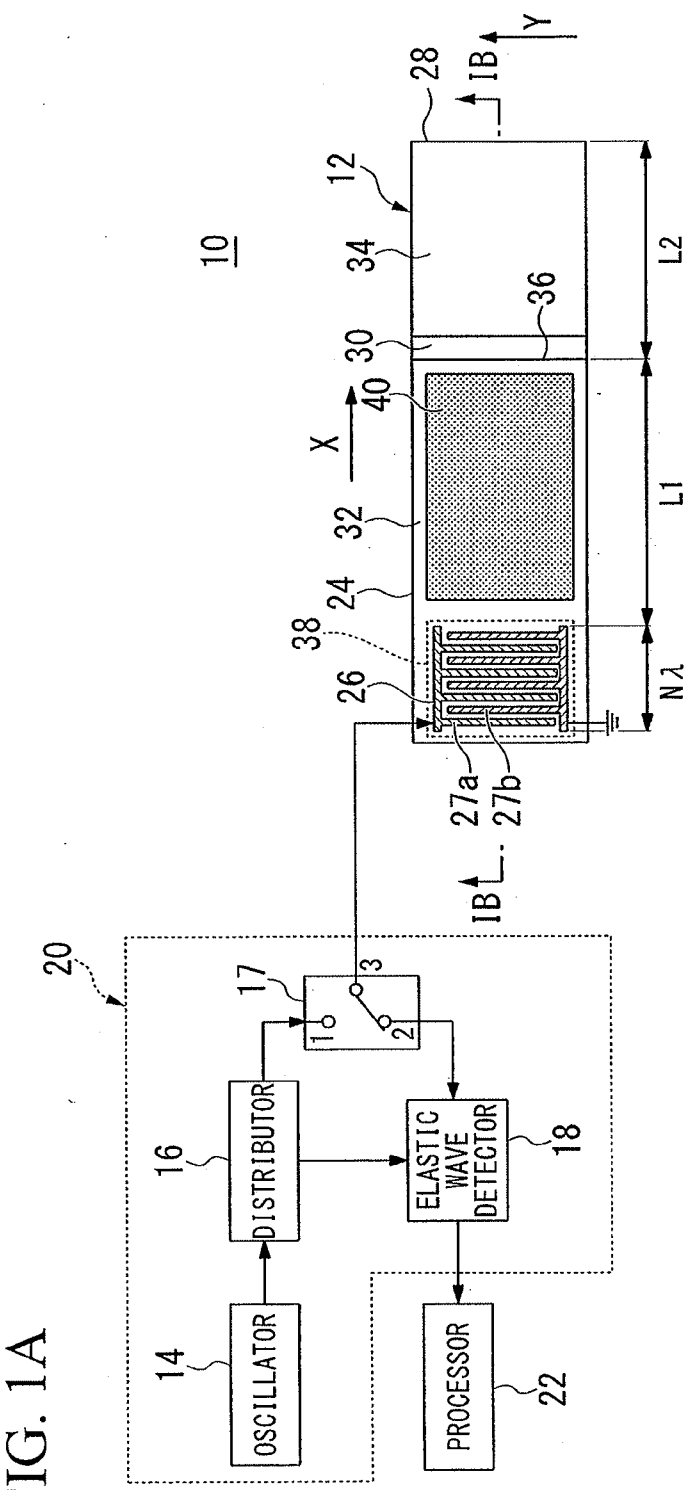

10
12
28
IB
Y
34
36
L2
30
40
X
32
L1
24
38
26
Nλ
27a
27b
IB
20
17
3
1
2
16
DISTRIBUTOR
ELASTIC WAVE DETECTOR
18
14
OSCILLATOR
PROCESSOR
22

FIG. 1B

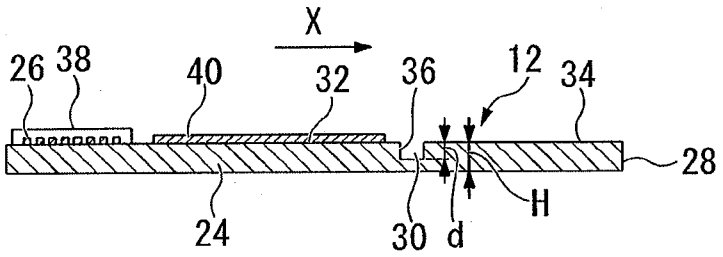


FIG. 2

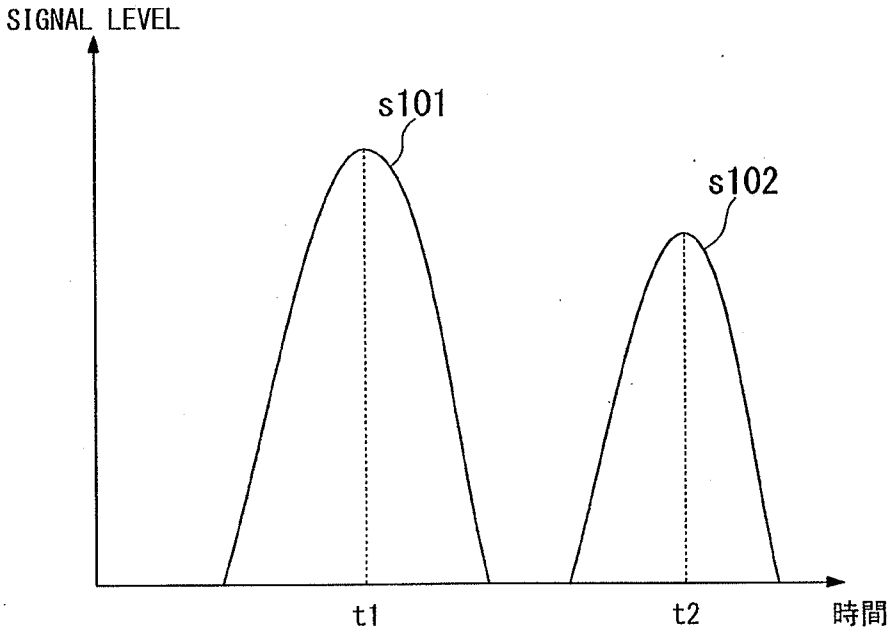


FIG. 3

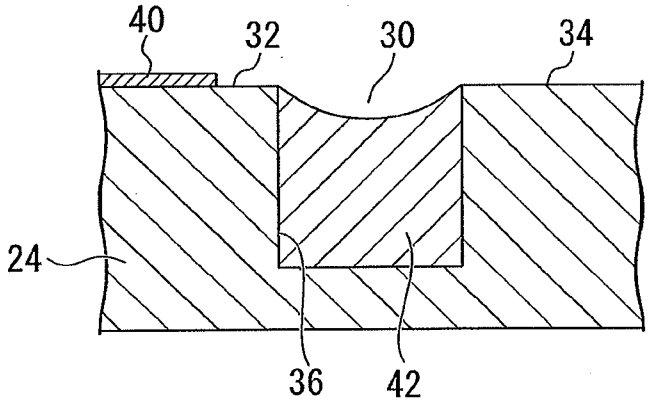
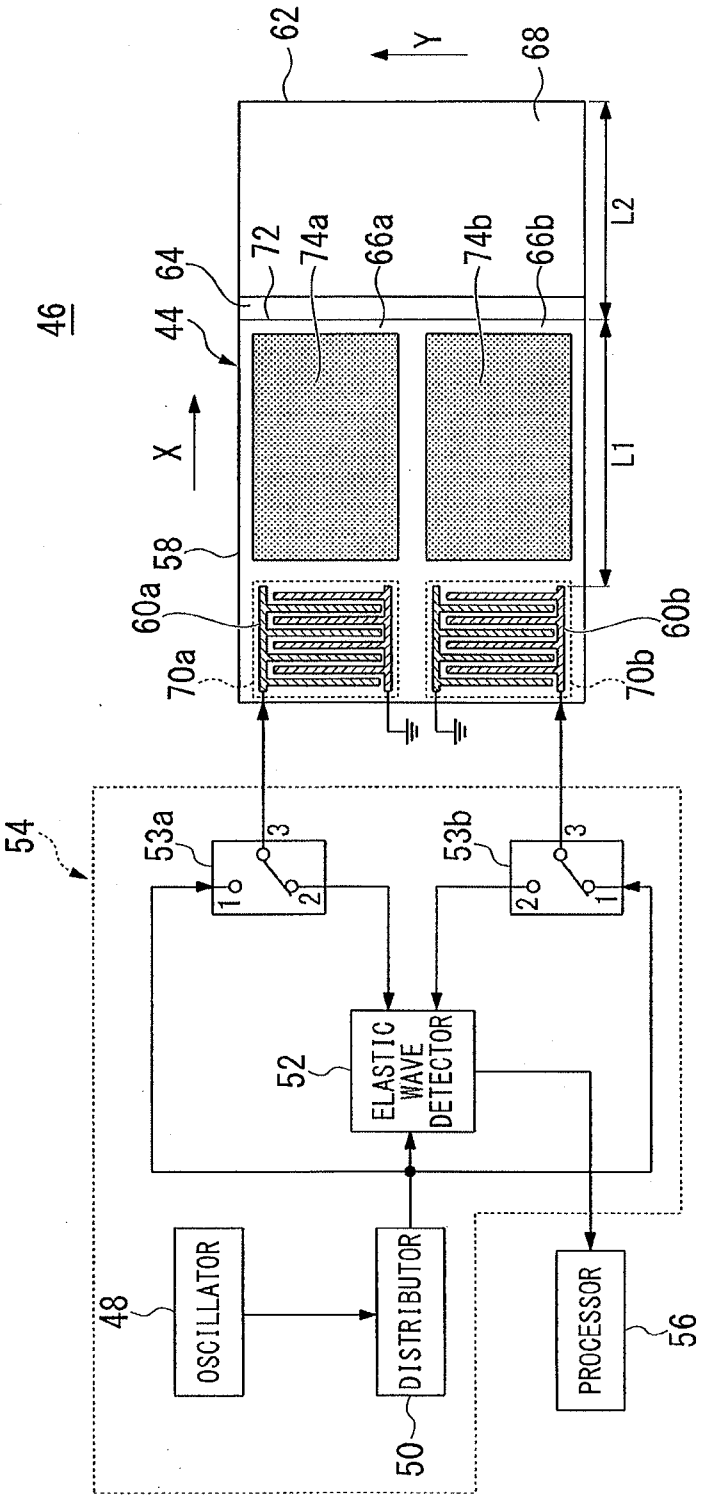


FIG. 4


46
62
68
Y
64
72
74a
66a
74b
66b
L2
44
X
L1
58
60a
60b
70a
70b
54
53a
53b
1
2
3
52
ELASTIC WAVE DETECTOR
48
OSCILLATOR
DISTRIBUTOR
50
PROCESSOR
56

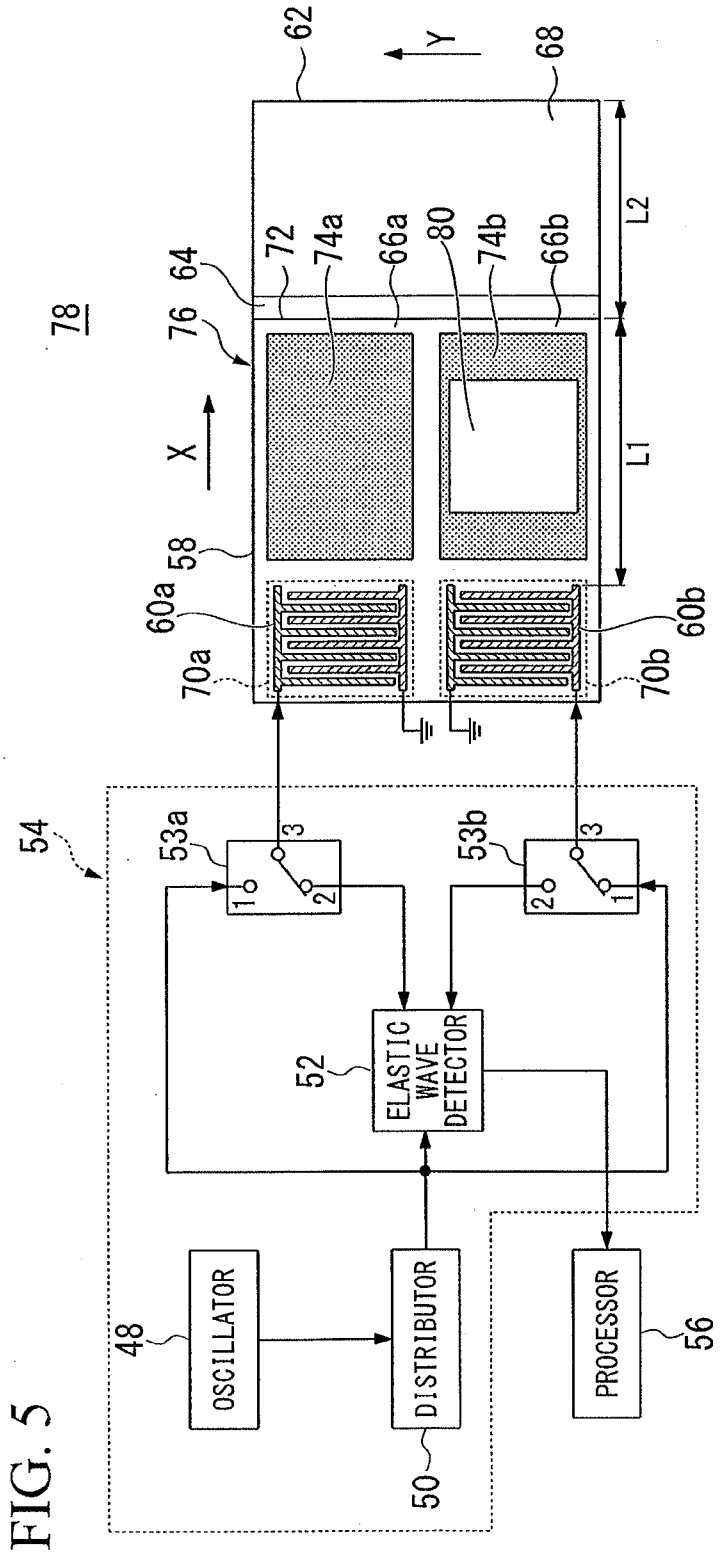

78
62
Y
68
64
72
74a
66a
80
74b
66b
L2
76
X
L1
58
60a
60b
70a
70b
54
53a
53b
3
1
2
2
1
3
52
ELASTIC WAVE DETECTOR
48
OSCILLATOR
DISTRIBUTOR
50
PROCESSOR
56

FIG. 5

FIG. 6

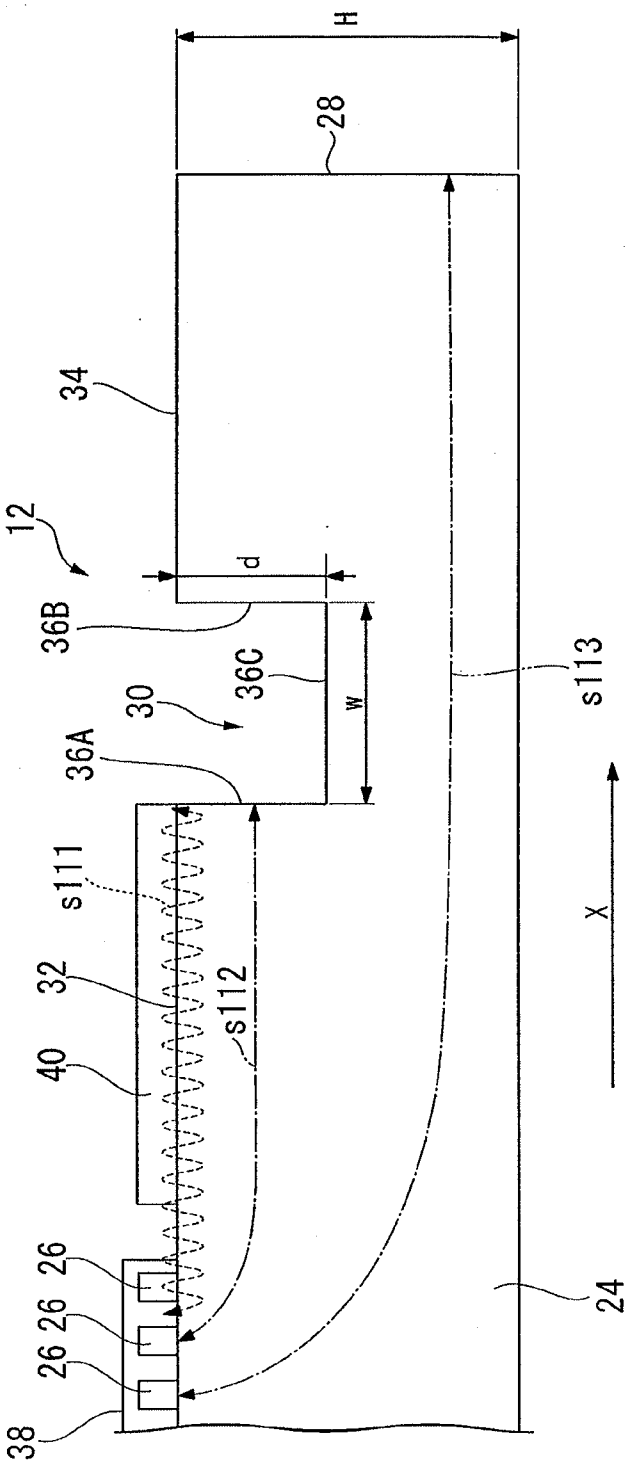


FIG. 7

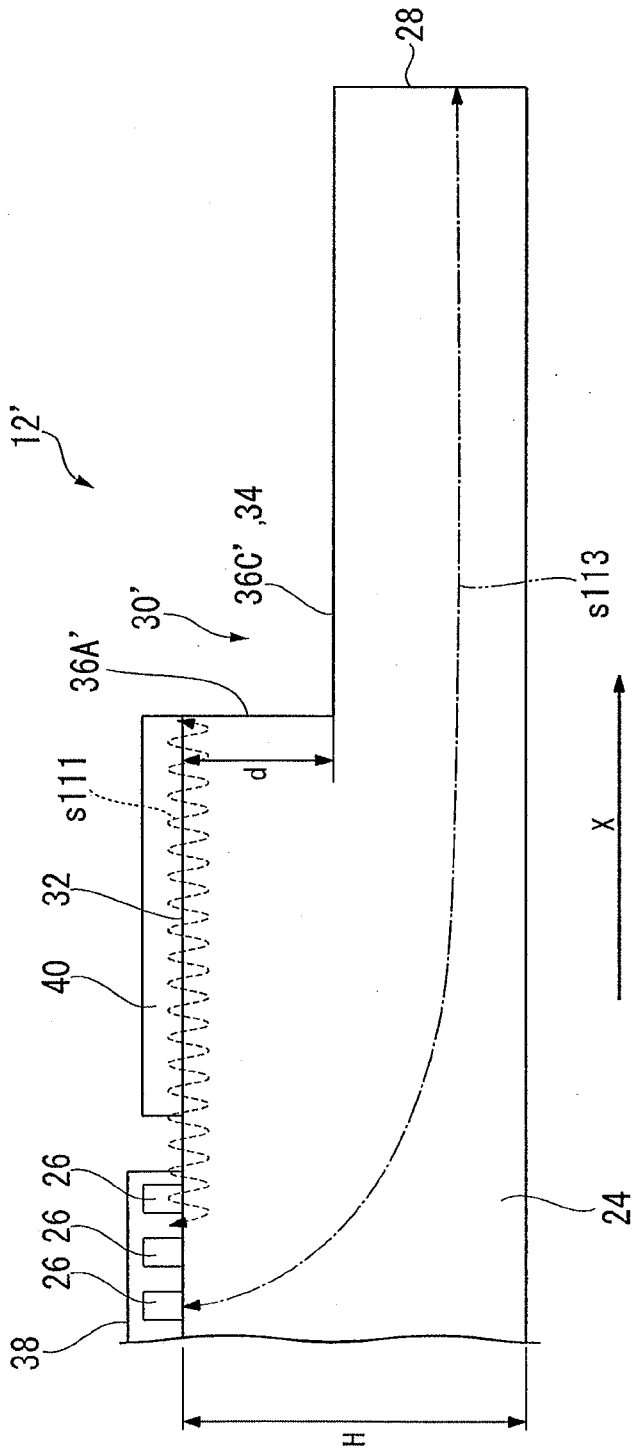


FIG. 8

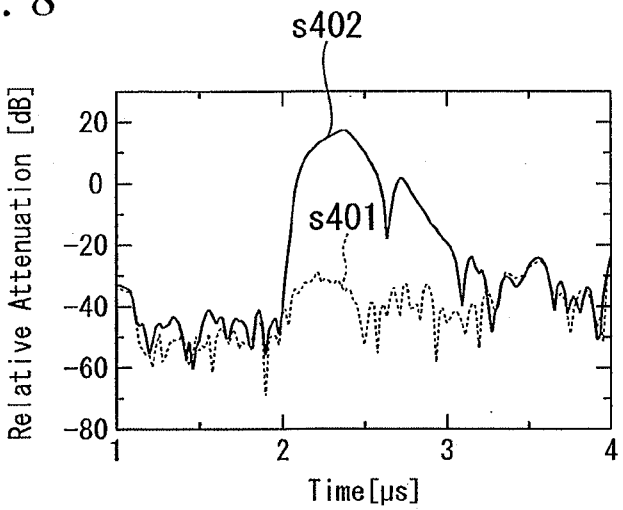

s402
s401
Relative Attenuation [dB]
20
0
-20
-40
-60
-80
1
2
3
4
Time[μs]

FIG. 9

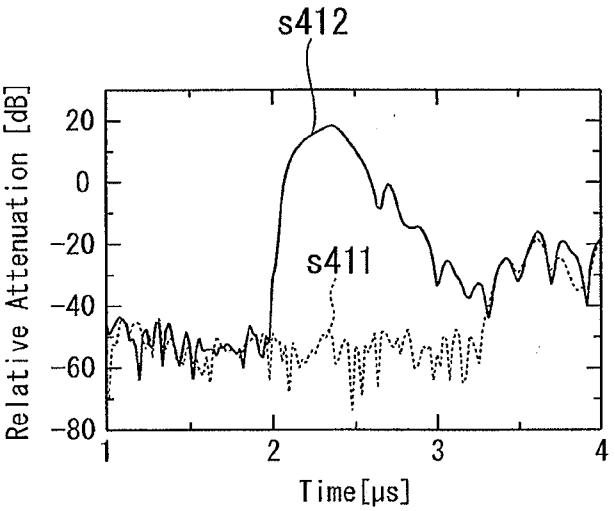

s412
s411
Relative Attenuation [dB]
20
0
-20
-40
-60
-80
1
2
3
4
Time[μs]

FIG. 10

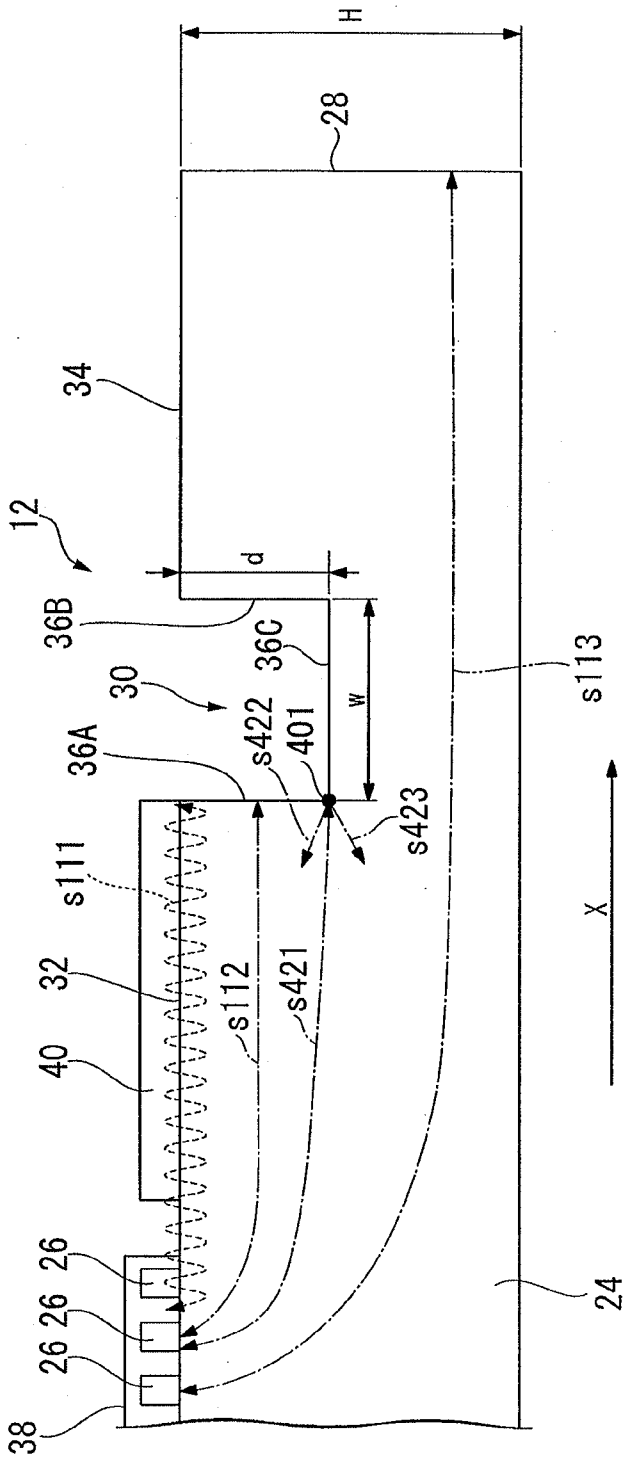

H
28
34
12
d
36B
36C
30
W
s422
401
36A
s423
s113
s111
32
s112
s421
40
X
26
26
26
24
38

FIG. 11

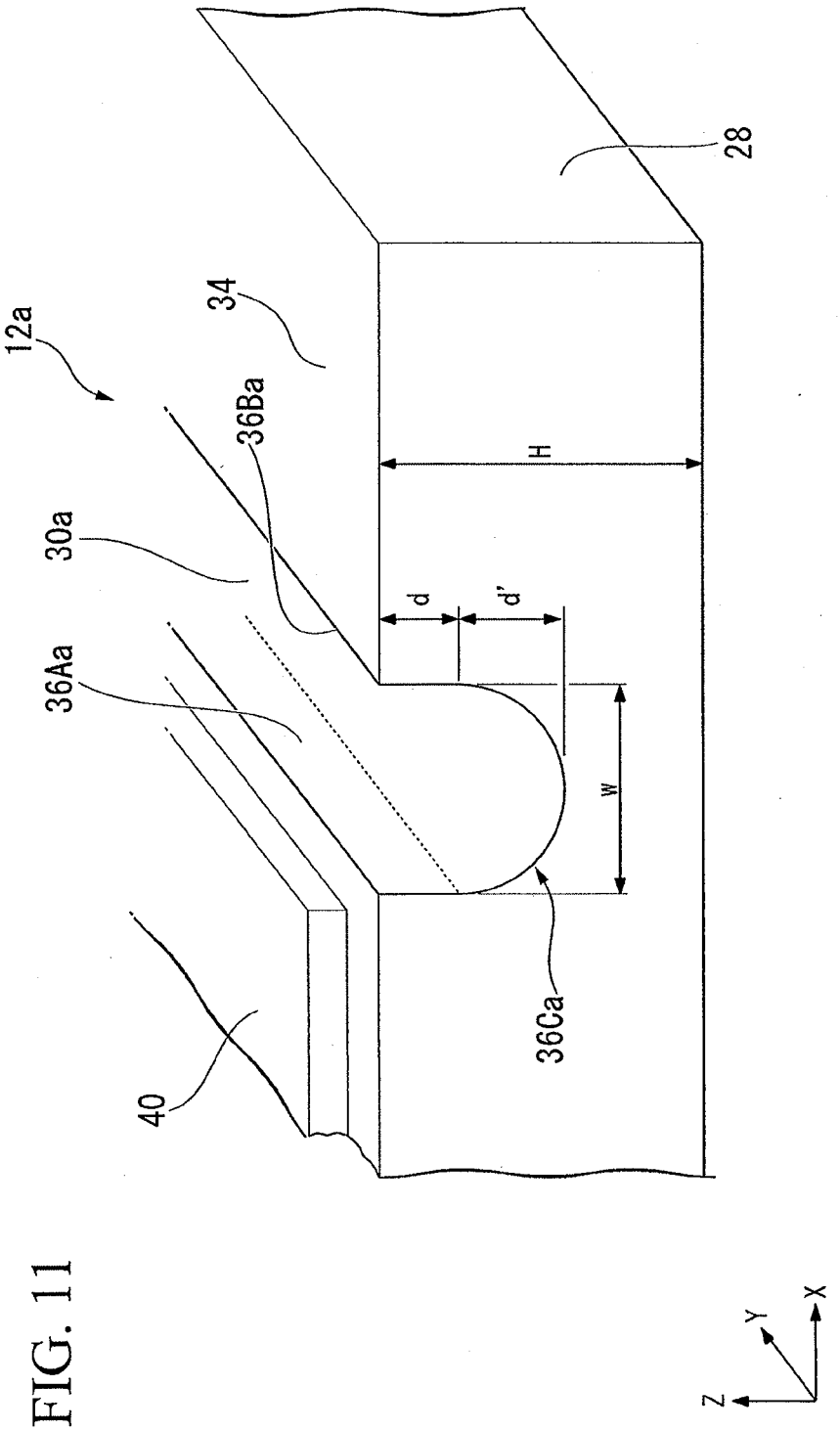


FIG. 12

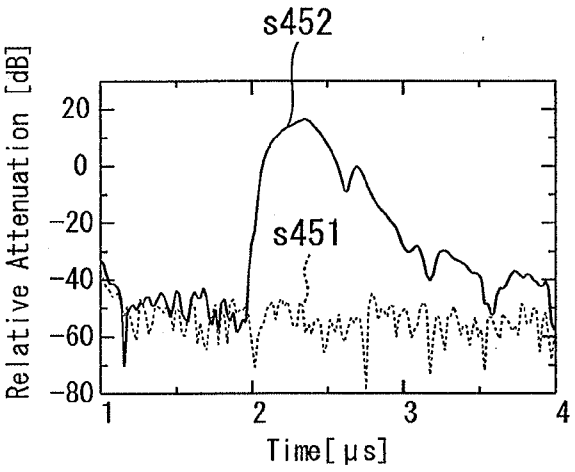

s452
s451
Relative Attenuation [dB]
20
0
-20
-40
-60
-80
1
2
3
4
Time[μs]

FIG. 13

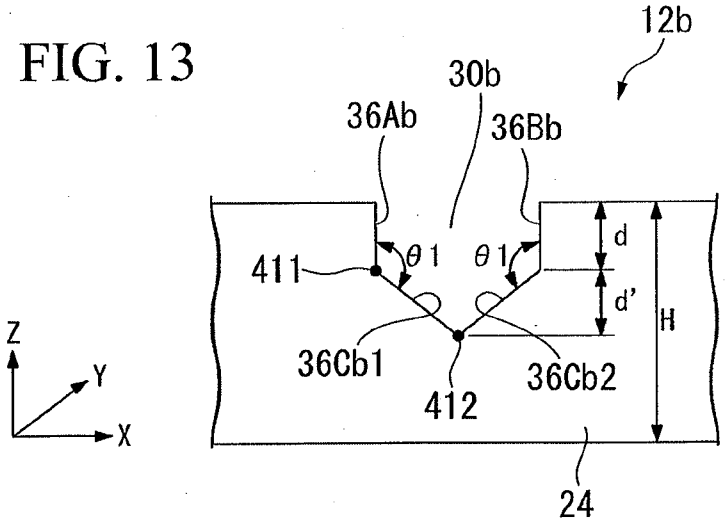

12b
30b
36Ab
36Bb
411
θ1
θ1
d
d'
H
36Cb1
412
36Cb2
24
Z
Y
X

FIG. 14

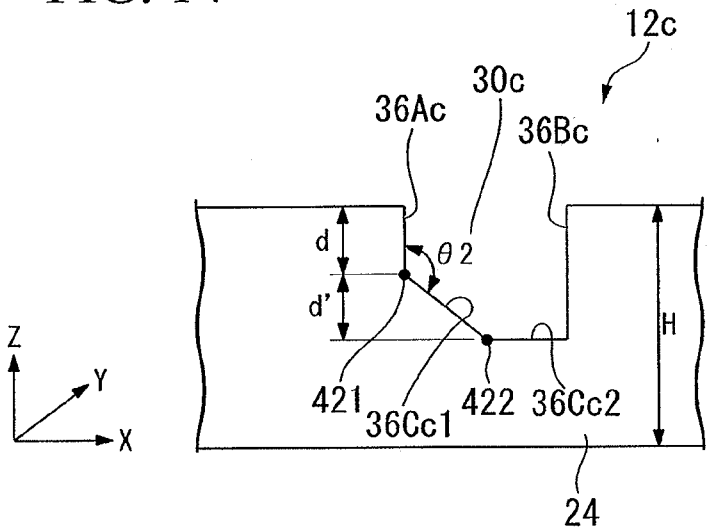

12c
30c
36Ac
36Bc
d
θ2
d'
H
421
36Cc1
422
36Cc2
24
Z
Y
X

FIG. 15

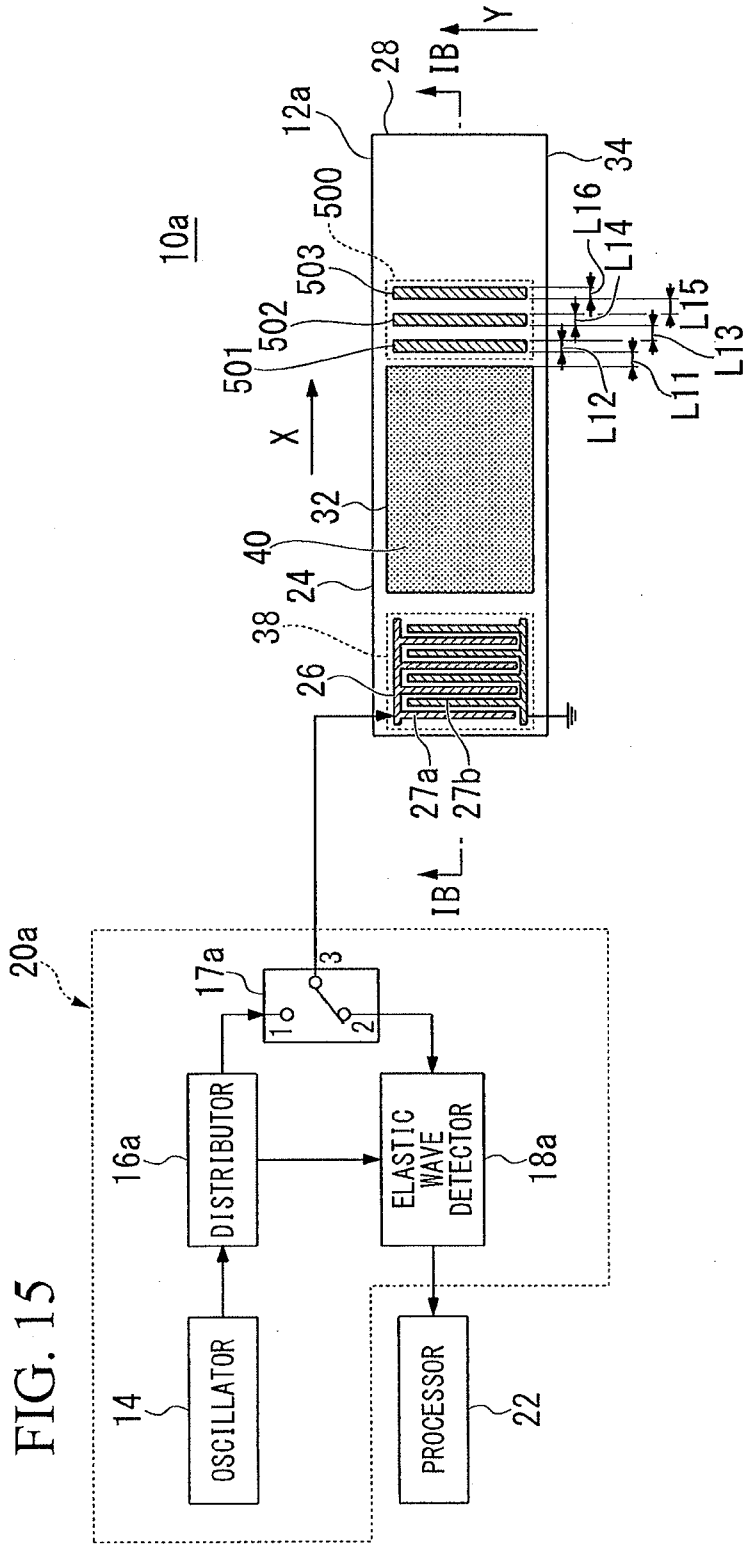

10a
12a
28
IB
Y
34
500
503
502
501
L16
L14
L15
L13
L12
L11
X
32
40
24
38
26
27a
27b
IB
20a
17a
3
1
2
16a
DISTRIBUTOR
ELASTIC WAVE DETECTOR
18a
14
OSCILLATOR
PROCESSOR
22

FIG. 16A

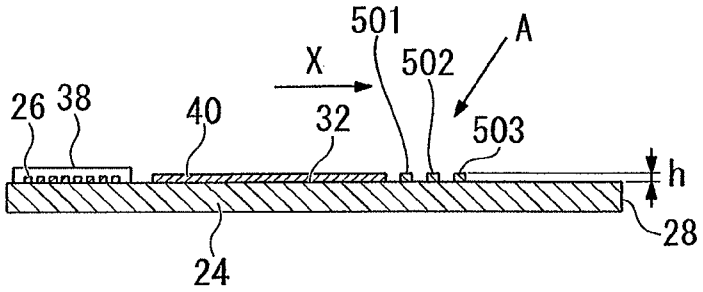


FIG. 16B

