Fig.1(a)

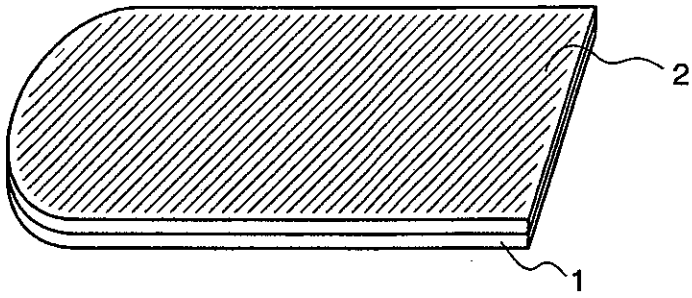


Fig.1(b)

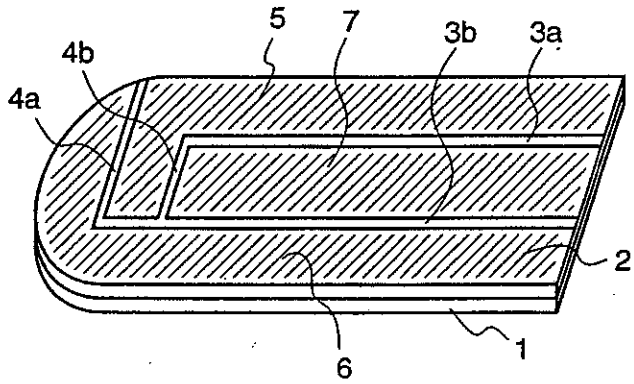


Fig.1(c)

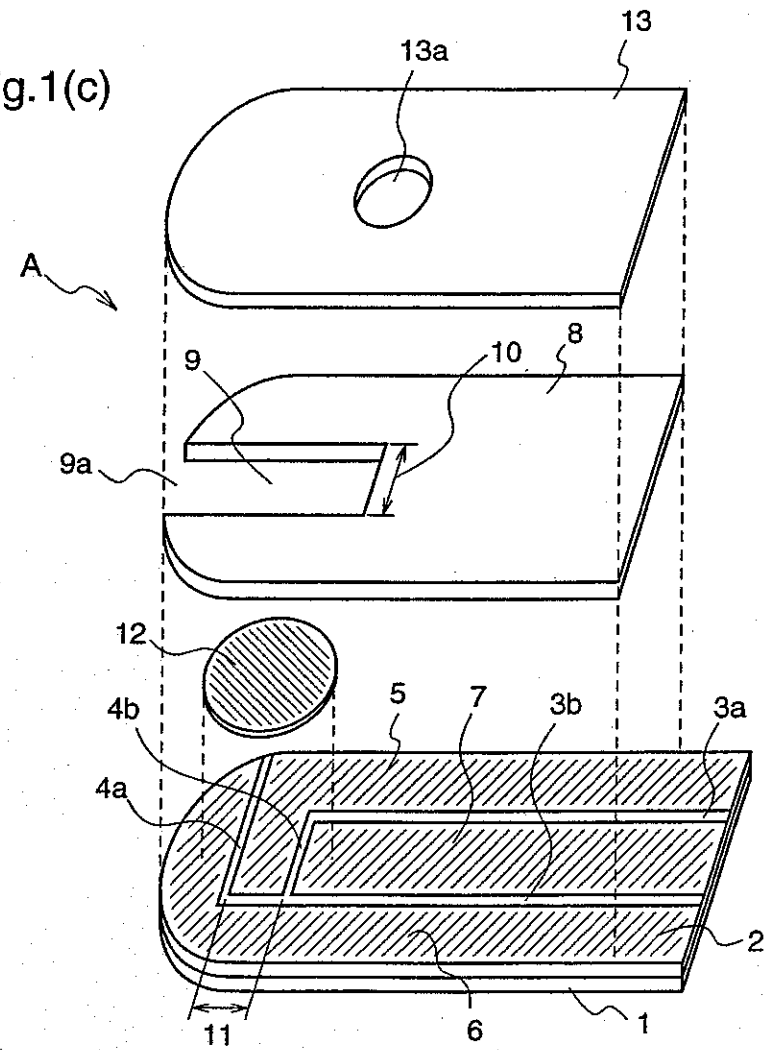


Fig.2(a)

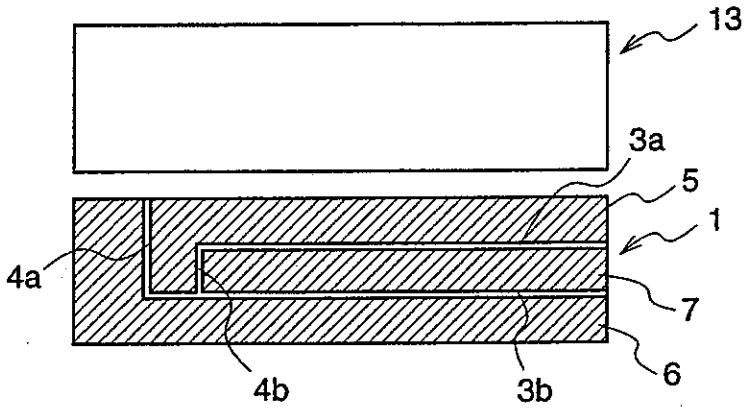


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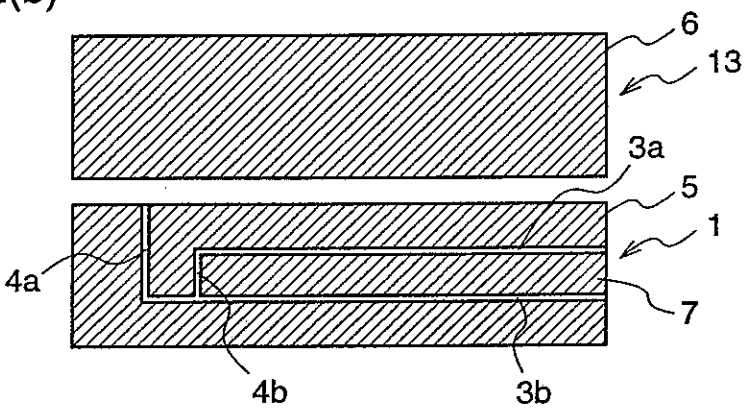


Fig.2(c)

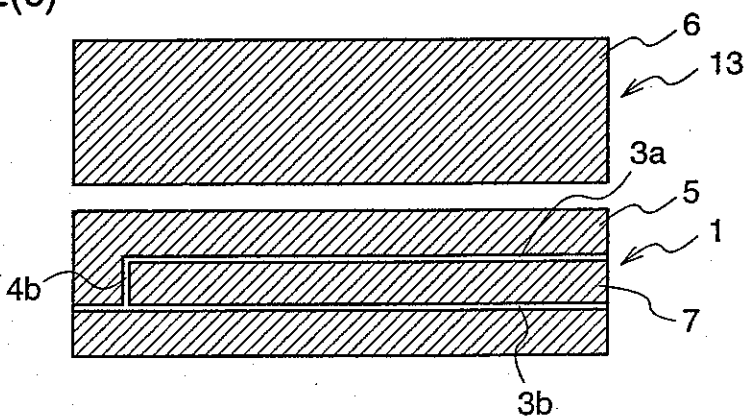


Fig.3(a)

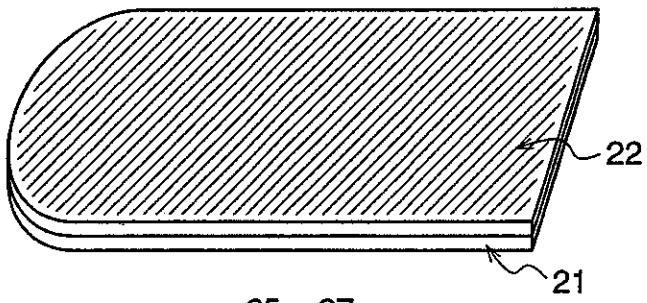


Fig.3(b)

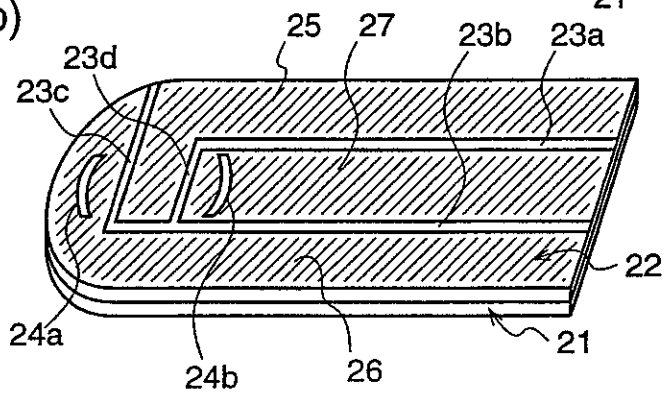


Fig.3(c)

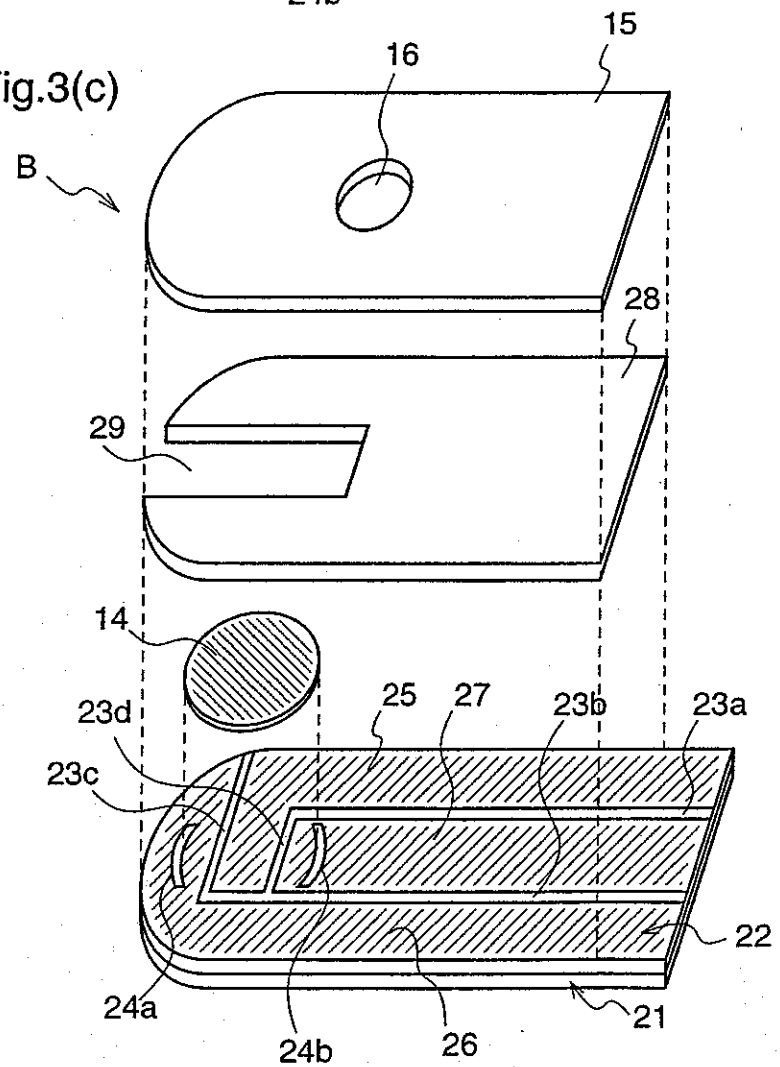
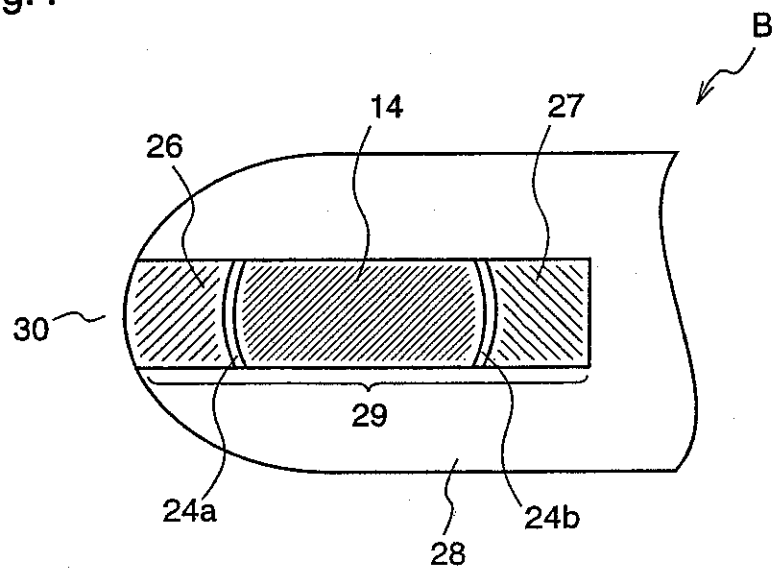


Fig.4



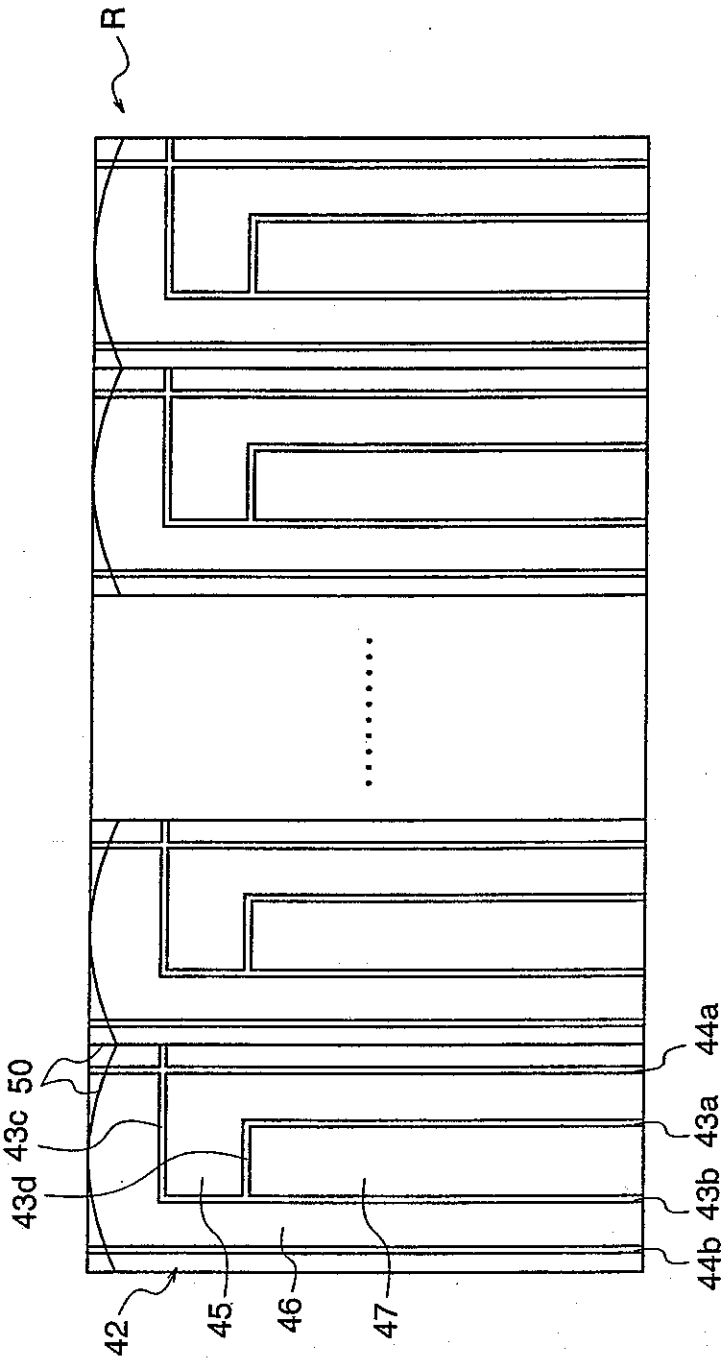


Fig.5

Fig.6(a)

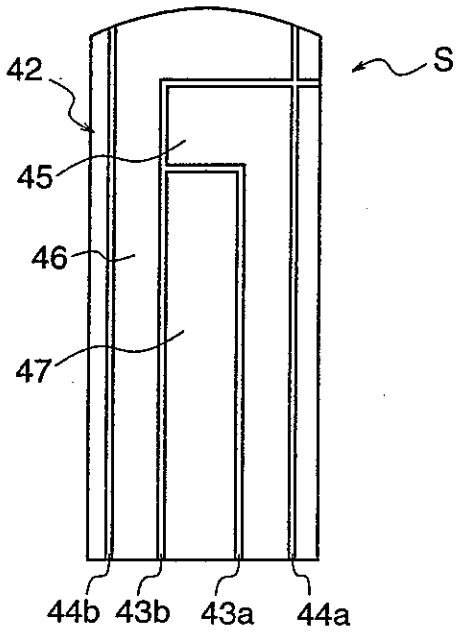


Fig.6(b)

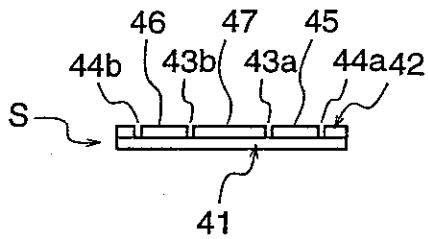


Fig.7

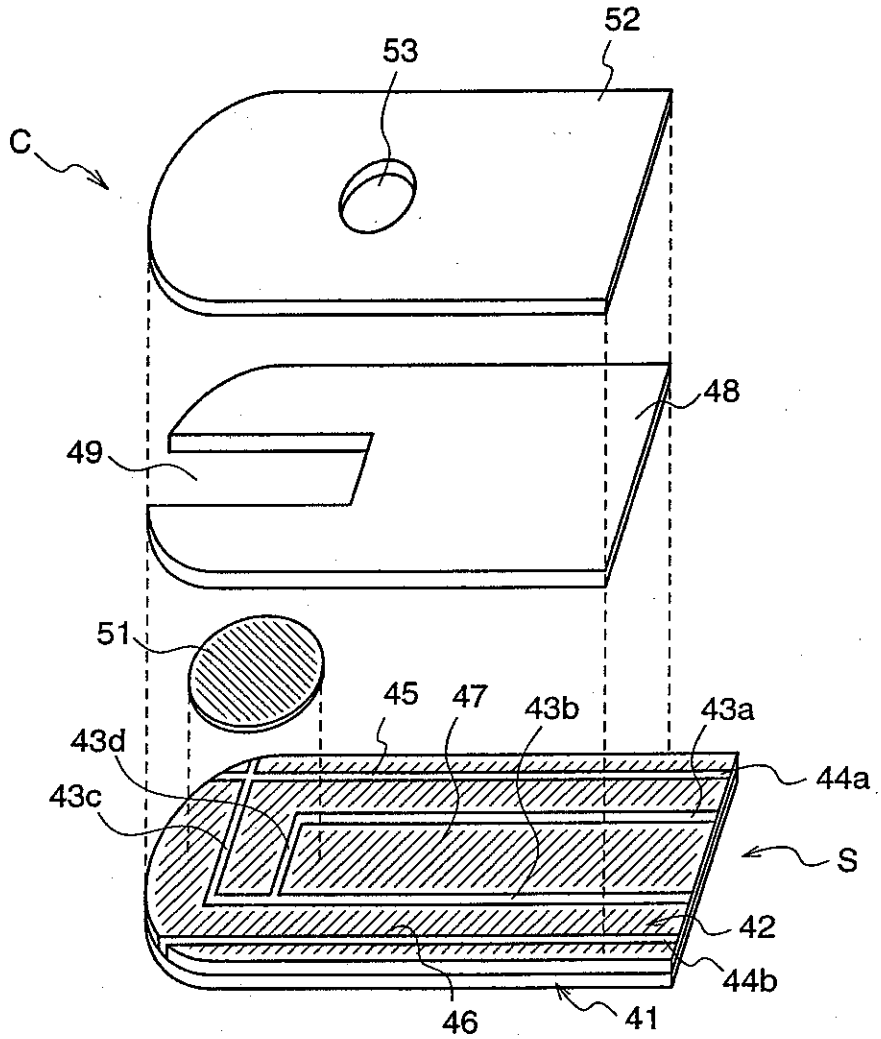


Fig.8(a)

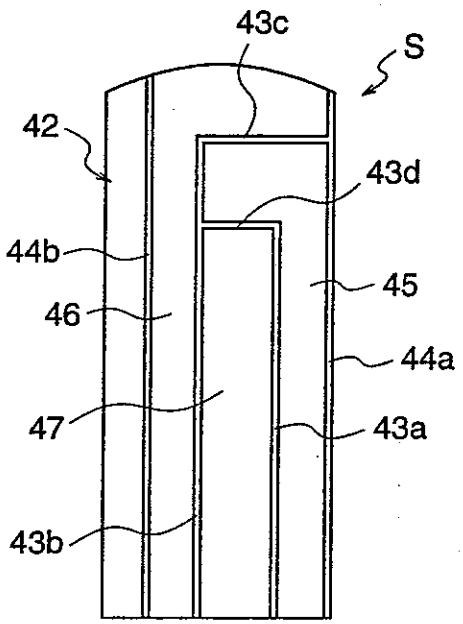

43c
S
42
43d
44b
45
46
44a
47
43a
43b

Fig.8(b)

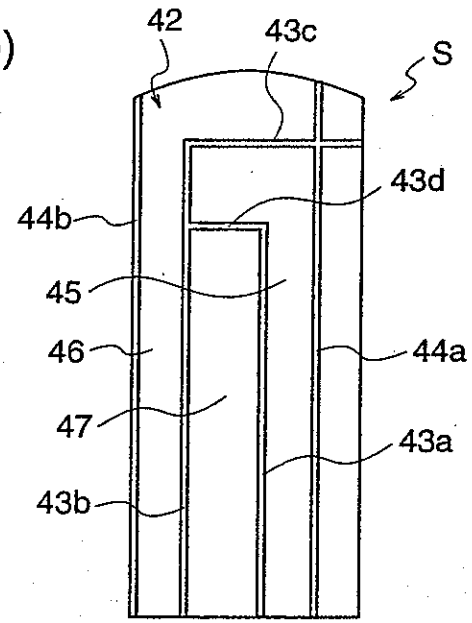

42
43c
S
43d
44b
45
46
44a
47
43a
43b

Fig.9(a)

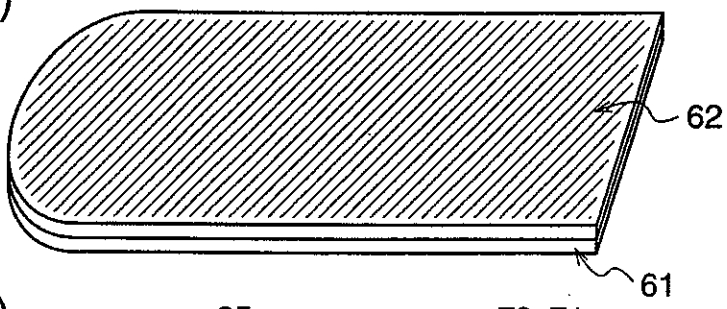


Fig.9(b)

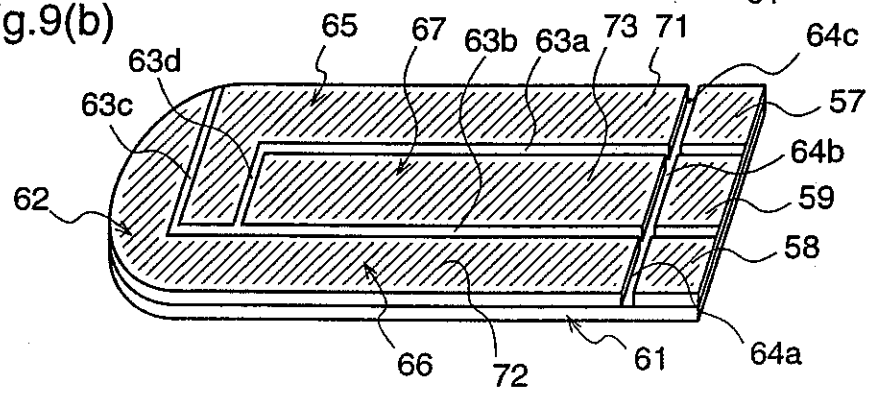


Fig.9(c)

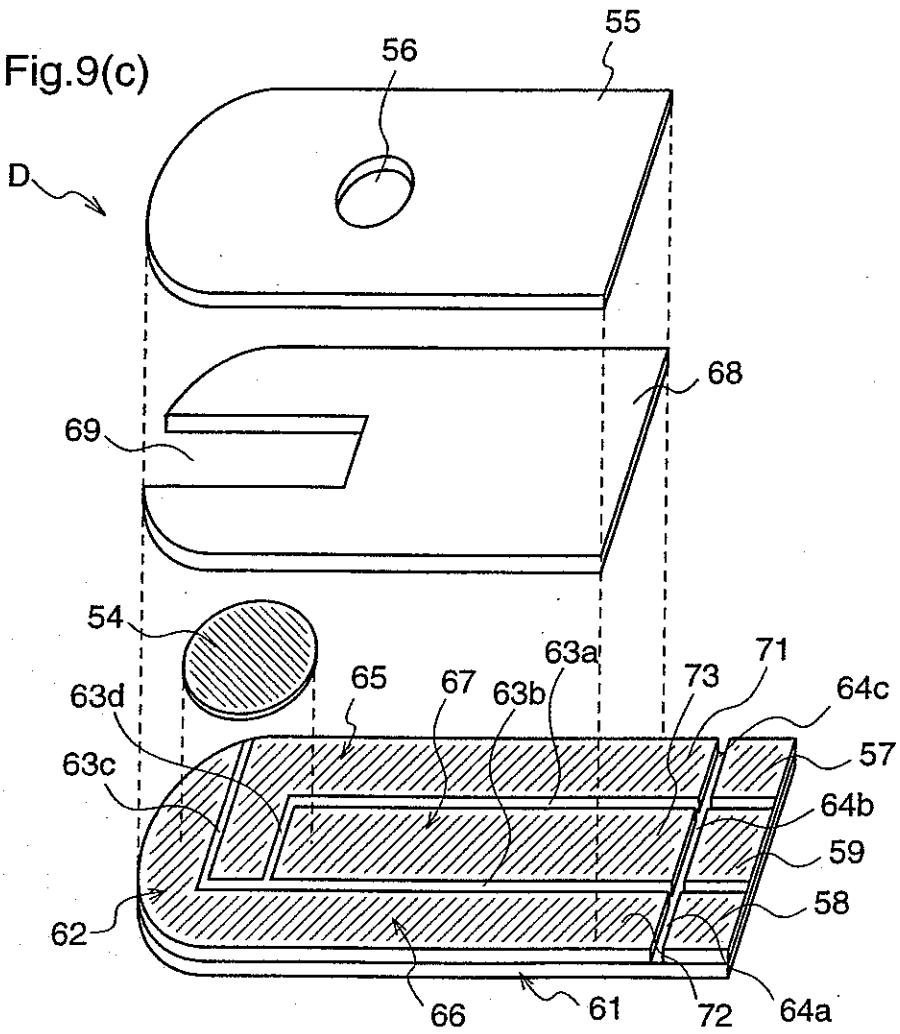


Fig.10(a)

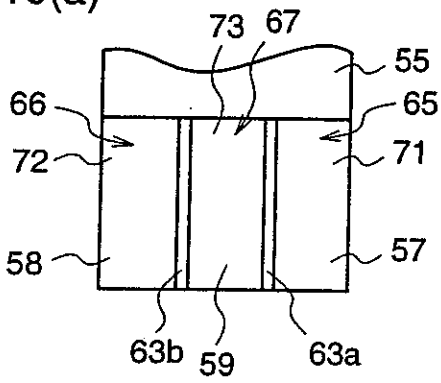


Fig.10(b)

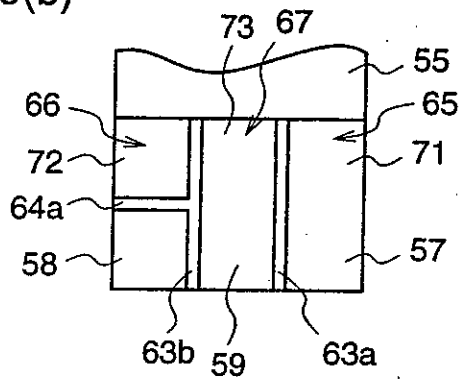


Fig.10(c)

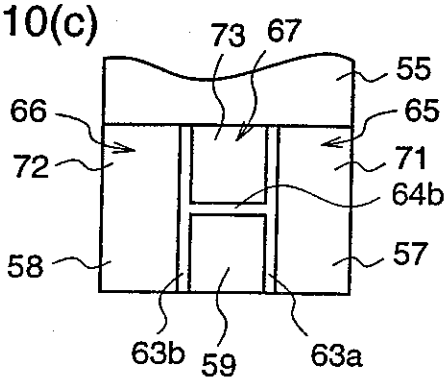


Fig.10(d)

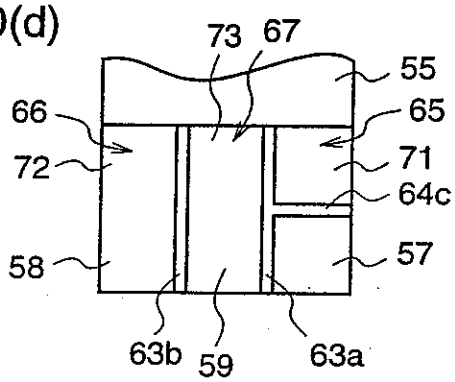


Fig.10(e)

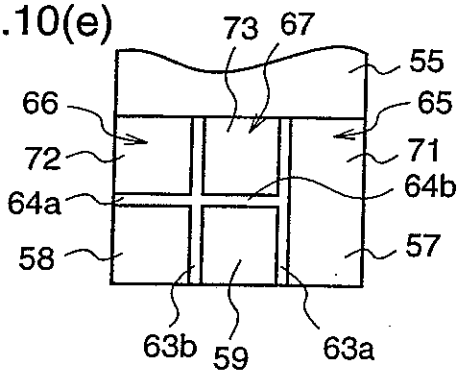


Fig.10(f)

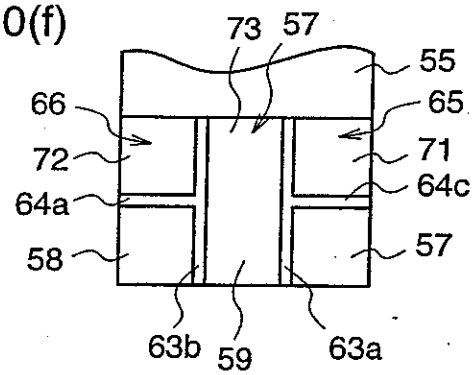


Fig.10(g)

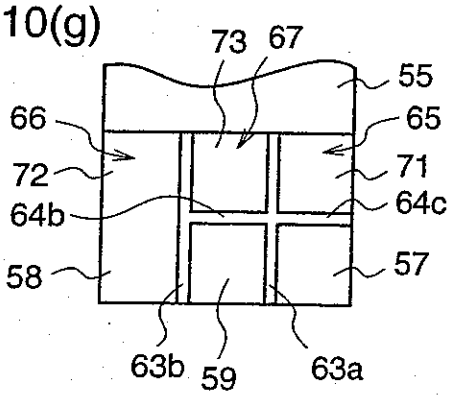


Fig.10(h)

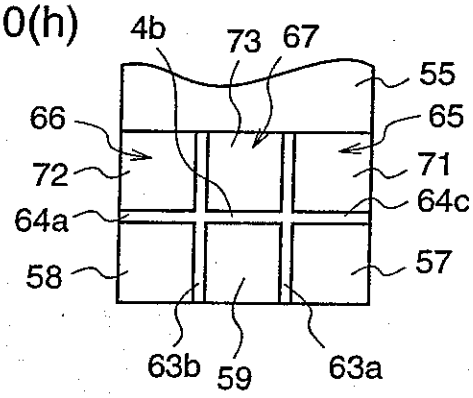


Fig.11

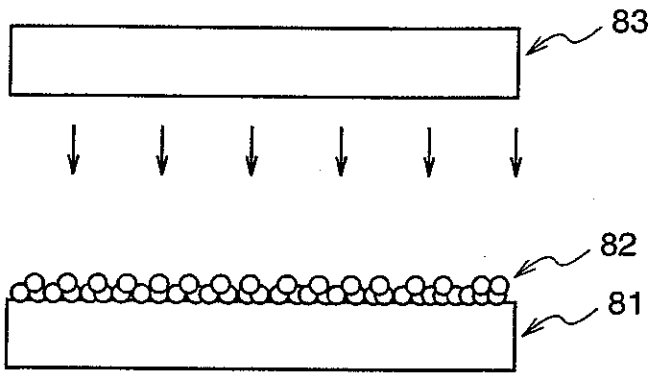


Fig.12

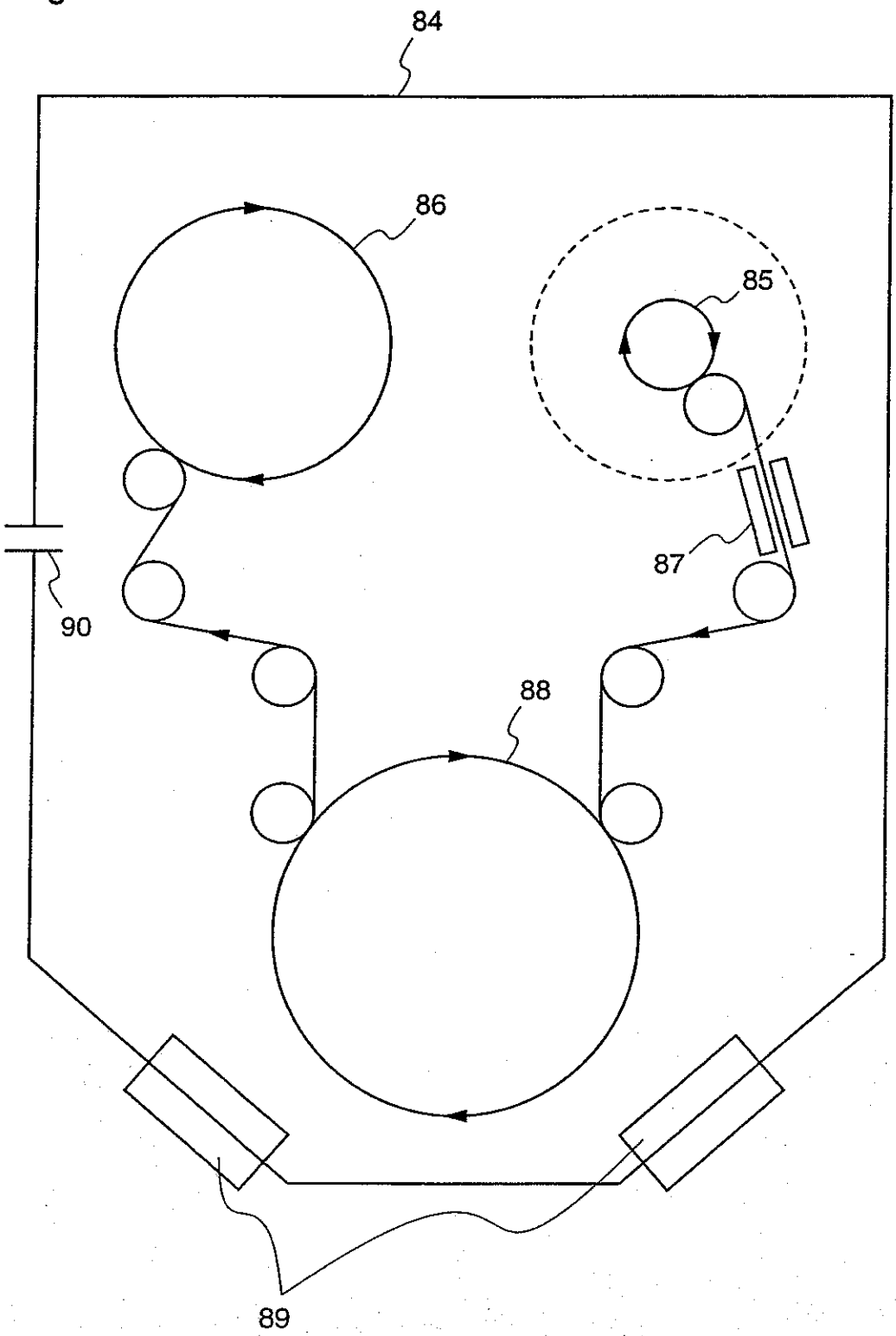


Fig.13

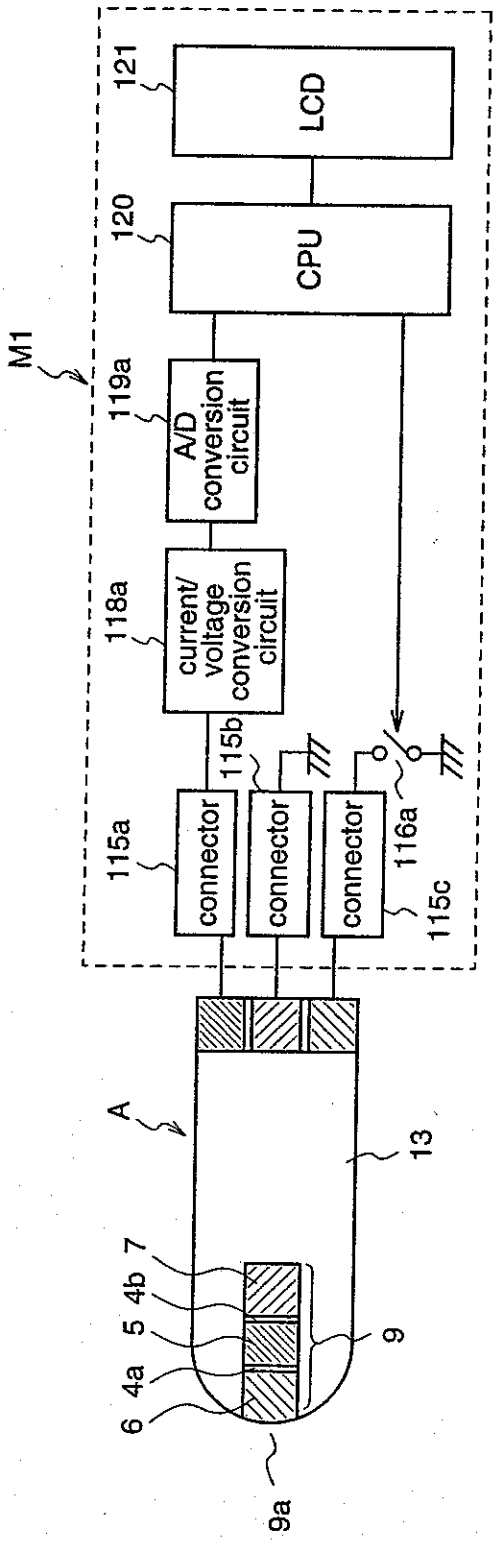

M1
121
LCD
120
CPU
119a
A/D conversion circuit
118a
current/ voltage conversion circuit
115b
115a
connector
connector
connector
116a
115c
A
13
7
4b
5
4a
6
9
9a

Fig.14

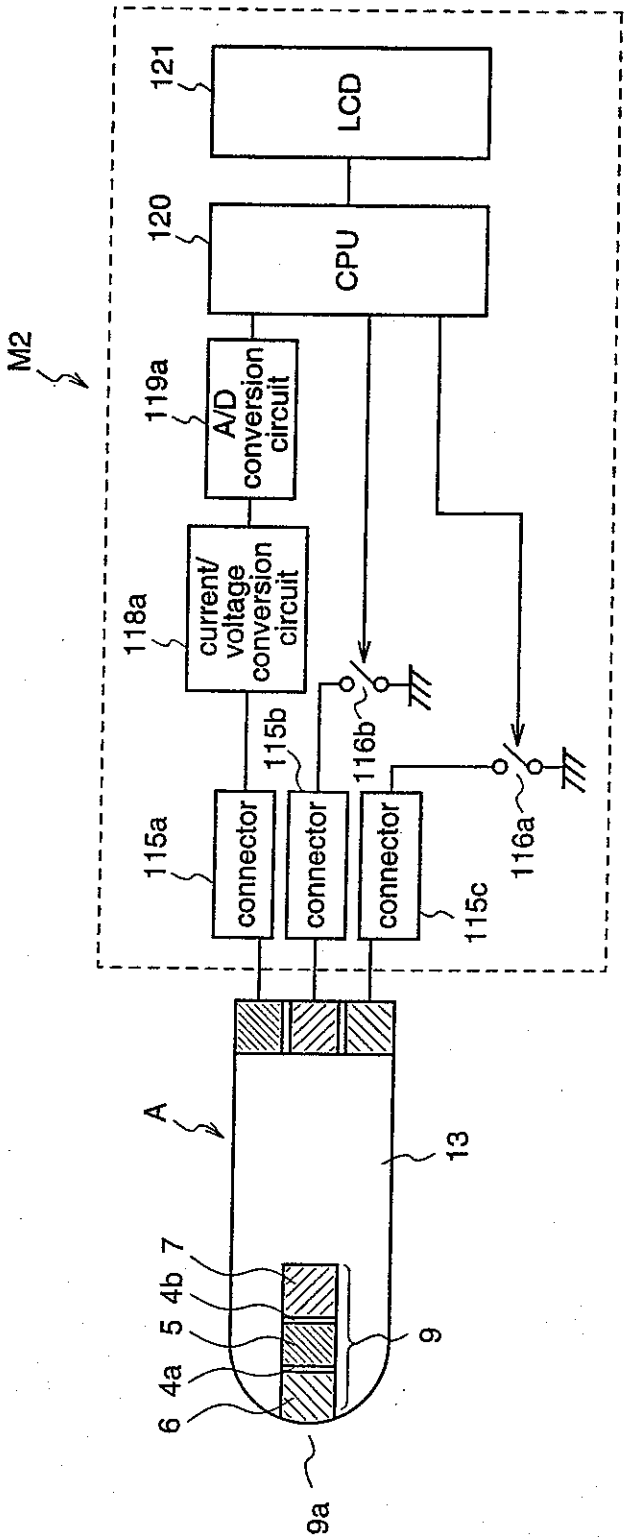

M2
121
LCD
120
CPU
119a
A/D conversion circuit
118a
current/ voltage conversion circuit
115b
116b
115a
connector
connector
connector
115c
116a
A
13
7
4b
5
4a
6
9
9a

Fig.15

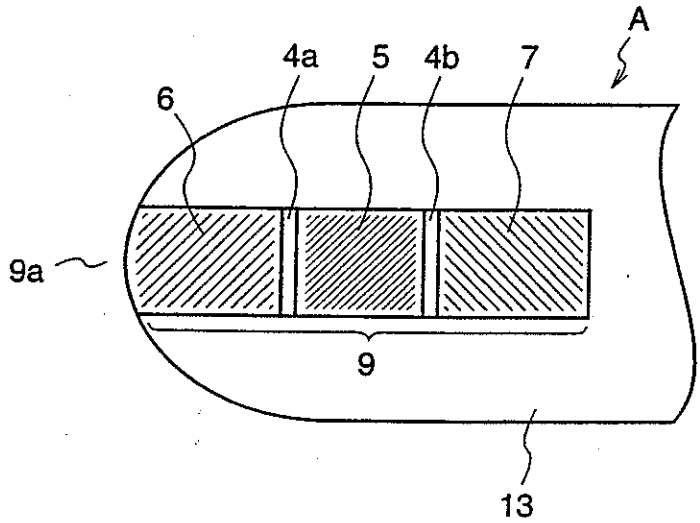


Fig.16

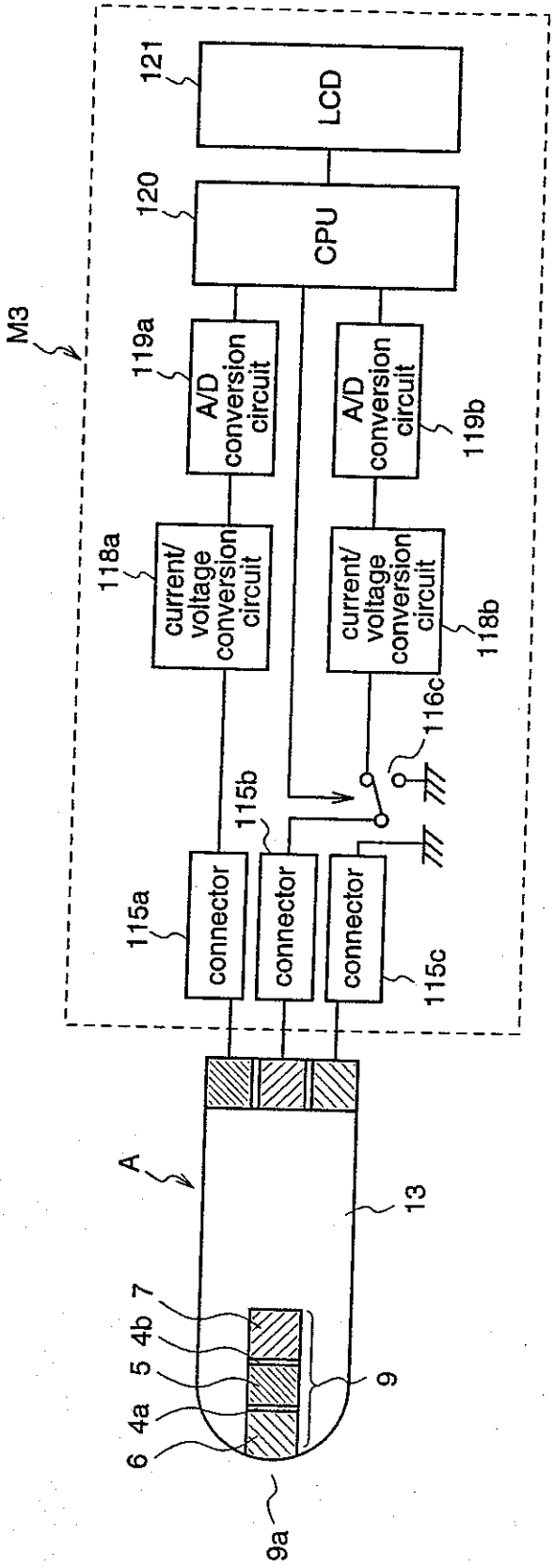

M3
121
LCD
120
CPU
119a
A/D conversion circuit
119b
A/D conversion circuit
118a
current/ voltage conversion circuit
118b
current/ voltage conversion circuit
116c
115b
115a
connector
connector
connector
115c
A
13
7
4b
5
4a
6
9
9a

Fig.17

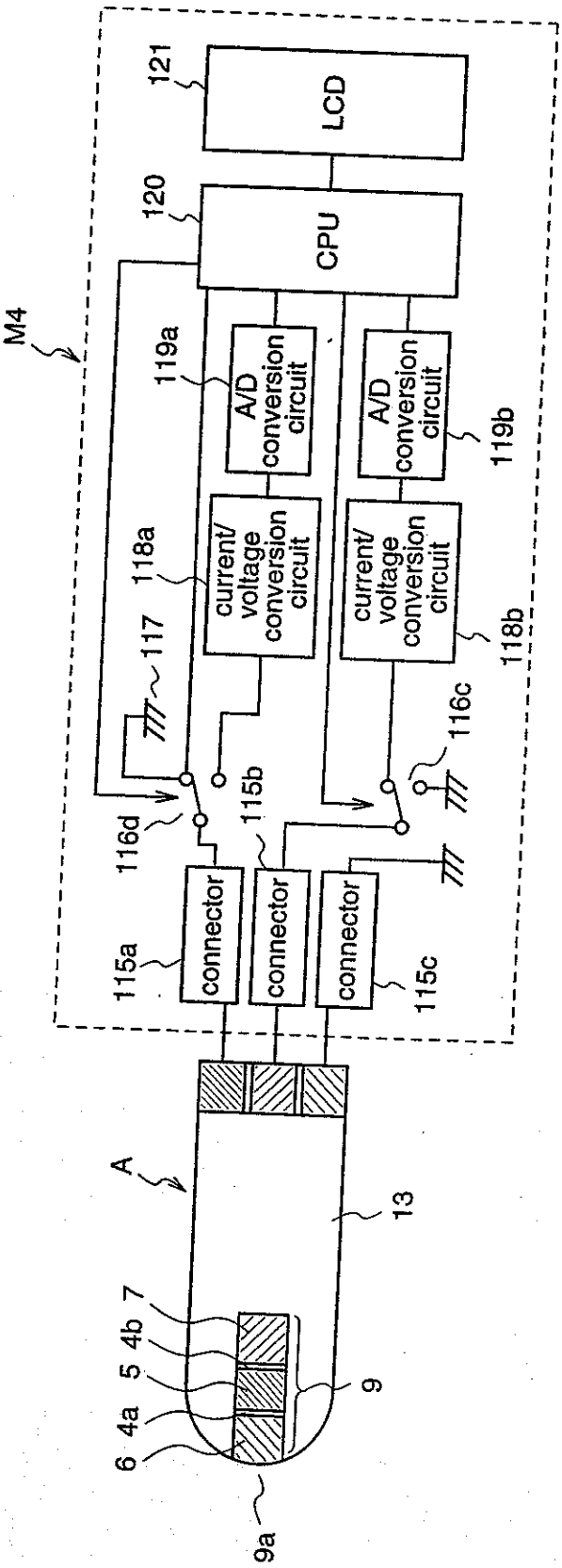

M4
121
LCD
120
CPU
119a
A/D conversion circuit
119b
A/D conversion circuit
118a
current/ voltage conversion circuit
118b
current/ voltage conversion circuit
117
116c
116d
115b
115a
connector
connector
connector
115c
A
13
7
4b
5
4a
6
9
9a

Fig.18

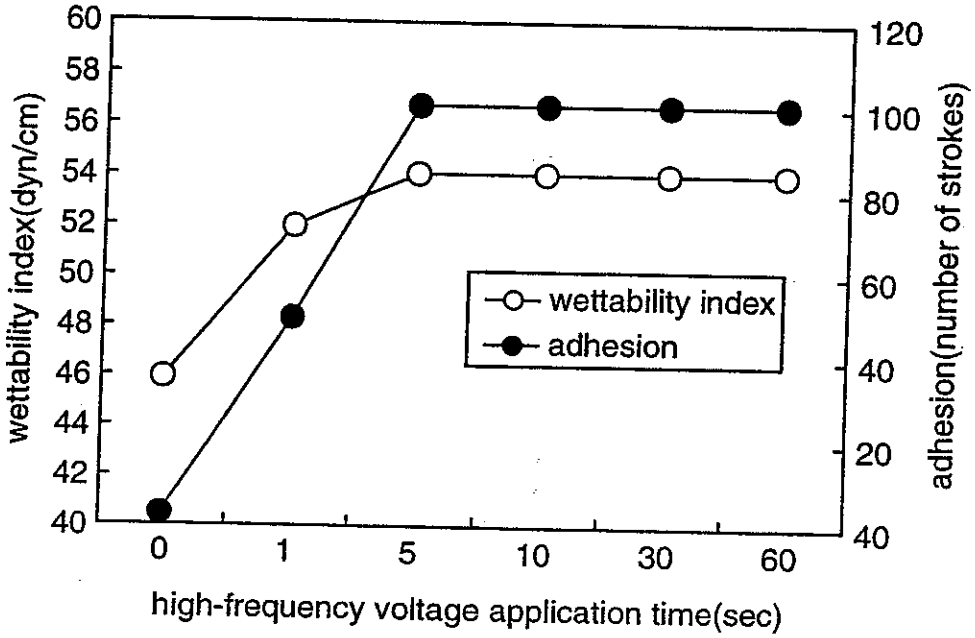

60
58
56
54
52
50
48
46
44
42
40
wettability index(dyn/cm)
120
100
80
60
40
20
40
adhesion(number of strokes)
wettability index
adhesion
0
1
5
10
30
60
high-frequency voltage application time(sec)

Fig.19

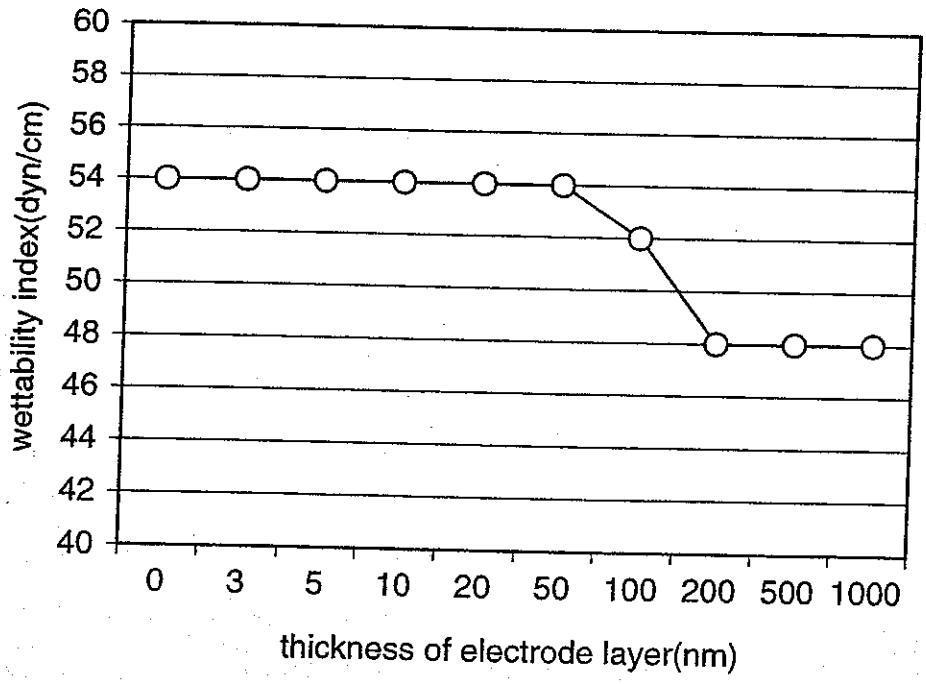

60
58
56
54
52
50
48
46
44
42
40
wettability index(dyn/cm)
0
3
5
10
20
50
100
200
500
1000
thickness of electrode layer(nm)

Fig.20

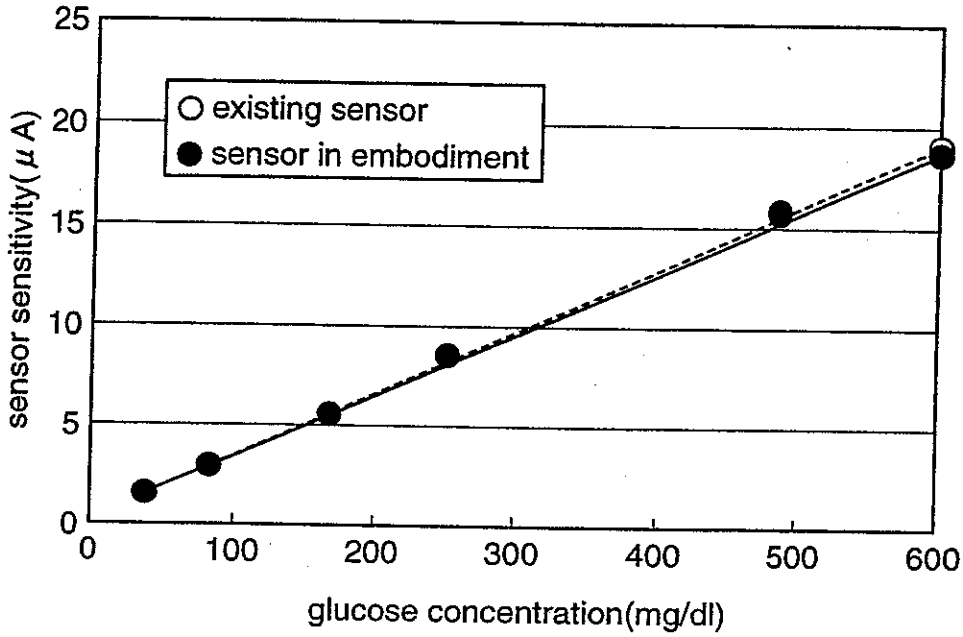

25
20
15
10
5
0
0
100
200
300
400
500
600
sensor sensitivity(μA)
glucose concentration(mg/dl)
existing sensor
sensor in embodiment

Fig.21(a)

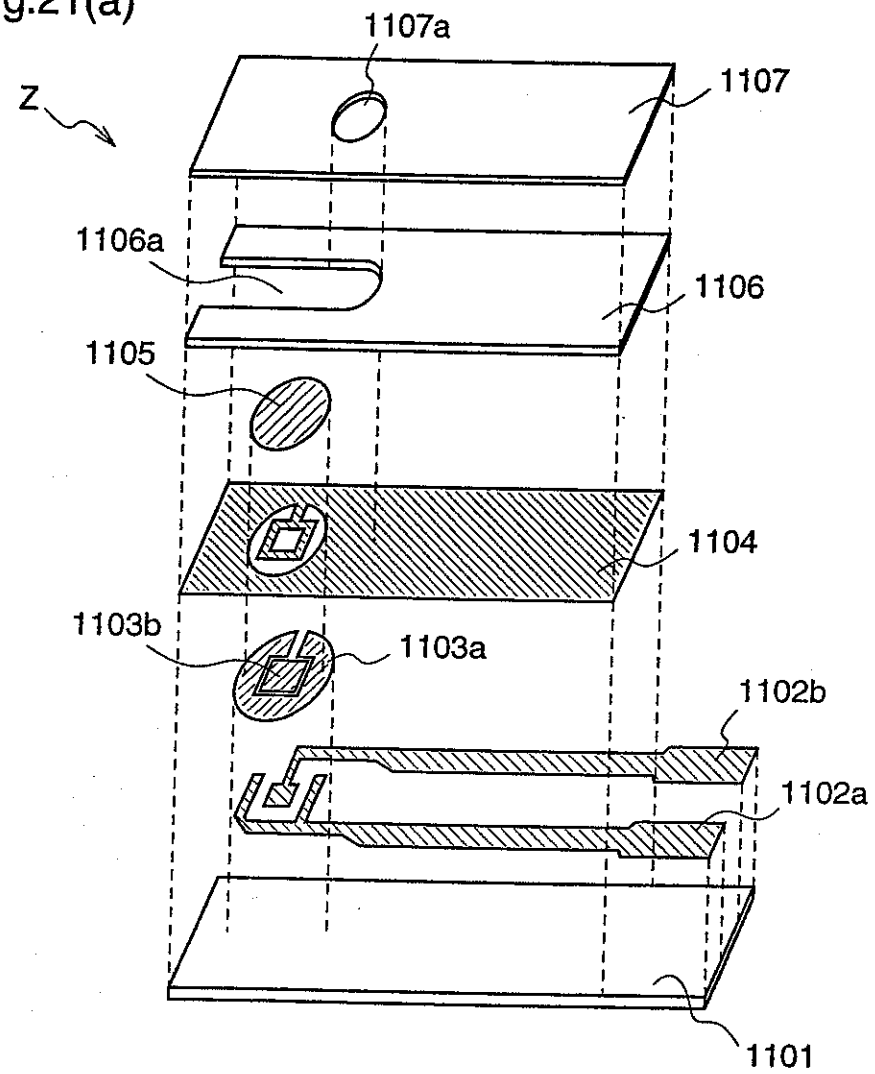


Fig.21(b)

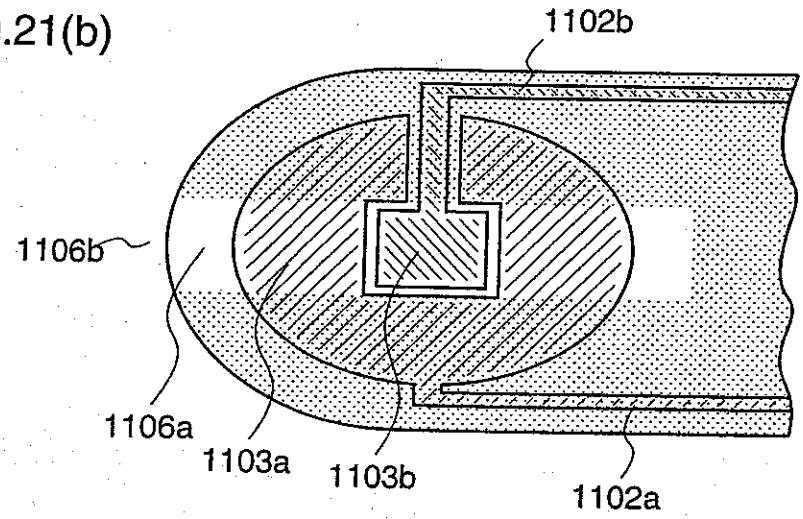


Fig.22

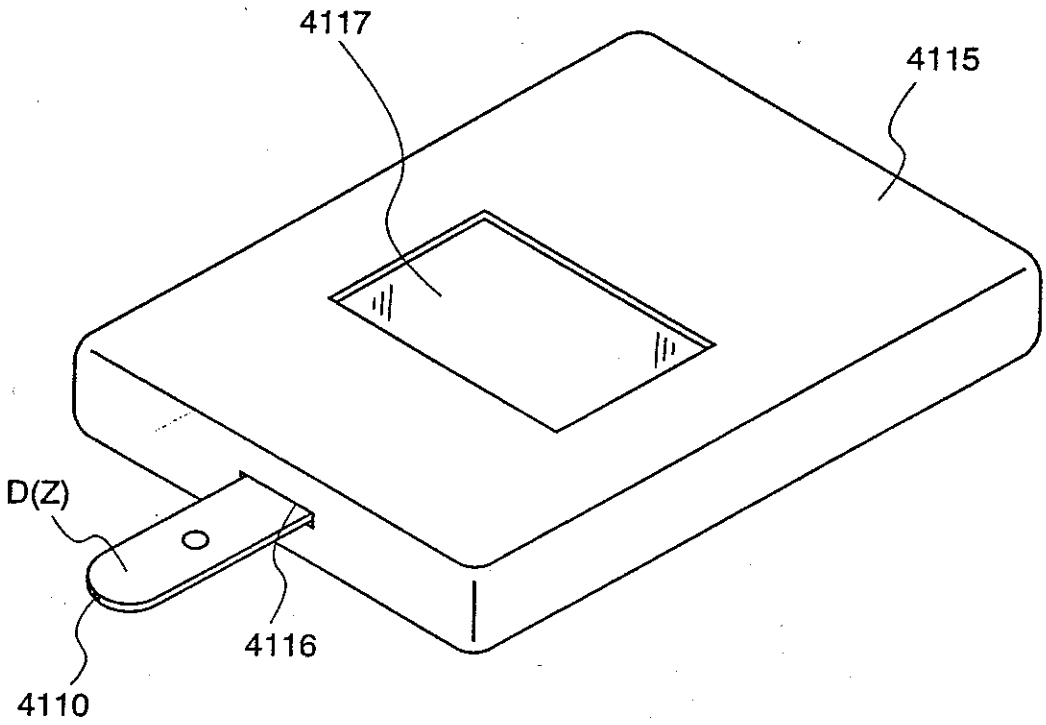


Fig.23

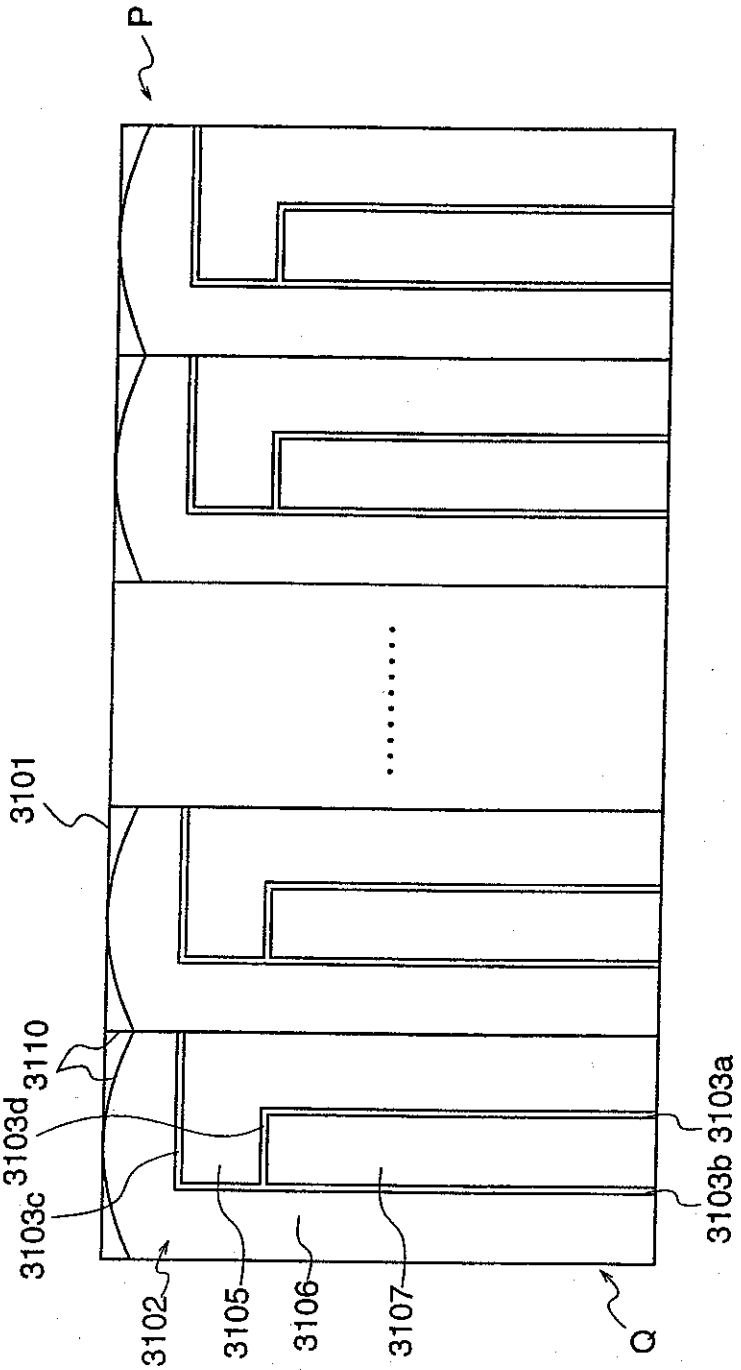


Fig.24(a)

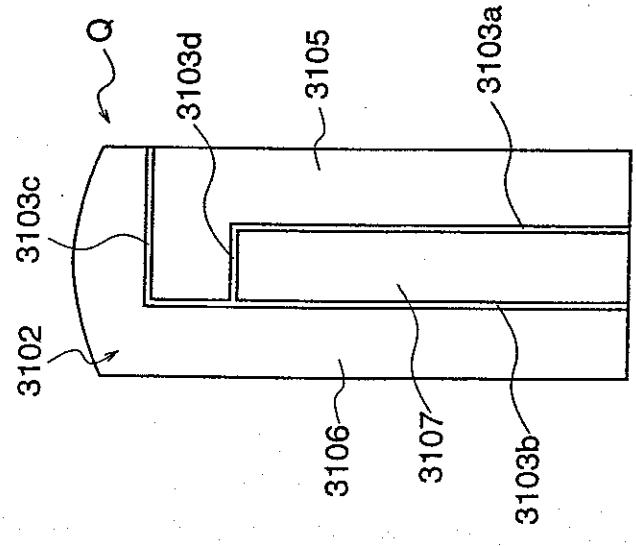


Fig.24(b)

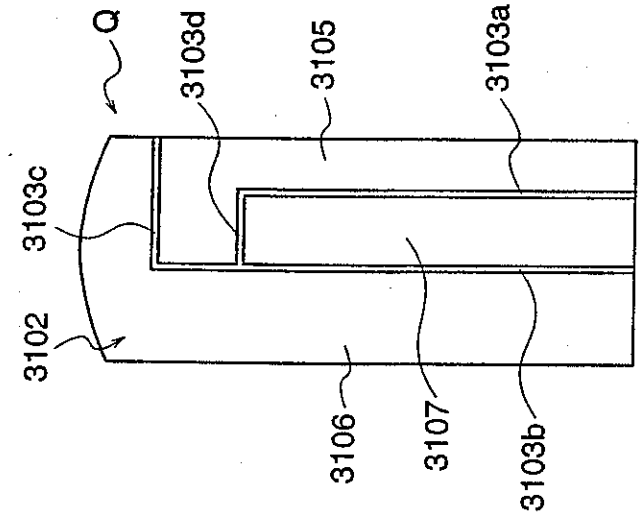


Fig.24(c)

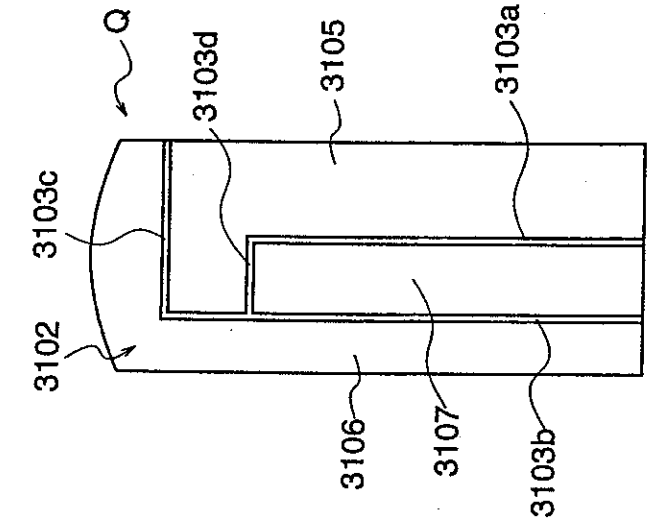


Fig.25

