Fig. 1

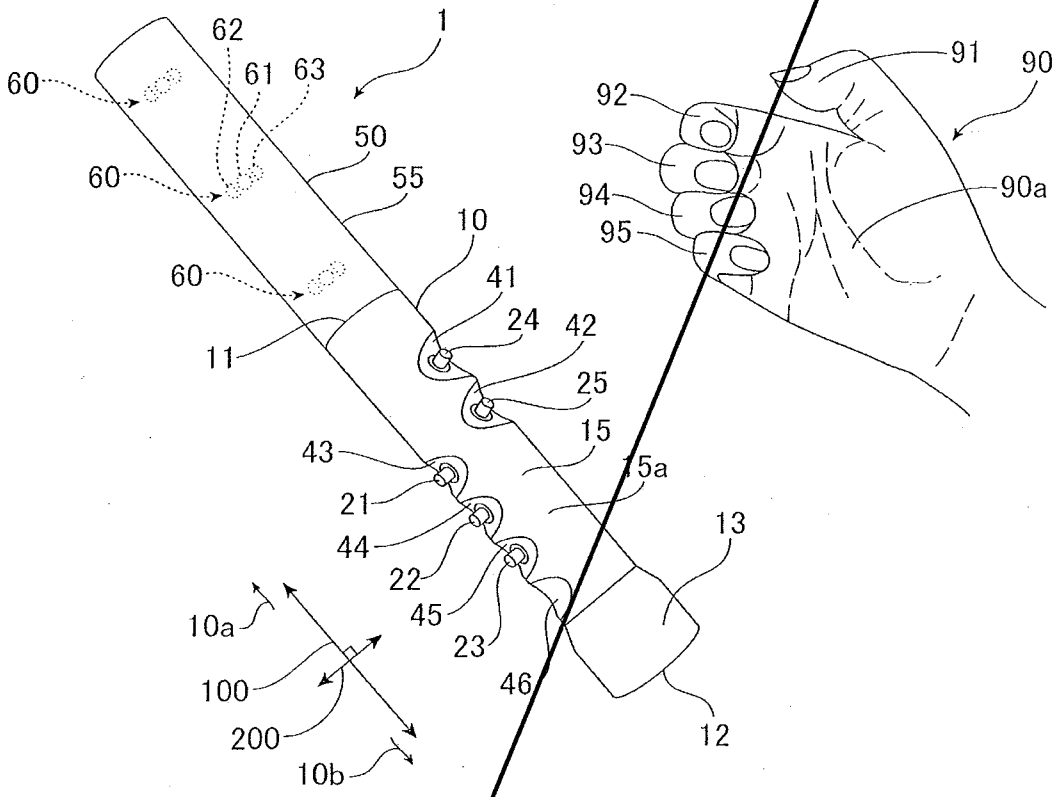

1
62
61
63
60
60
60
50
55
10
41
24
42
25
15
15a
11
43
21
44
22
45
23
46
13
12
10a
100
200
10b
91
90
92
93
94
95
90a

Fig. 2

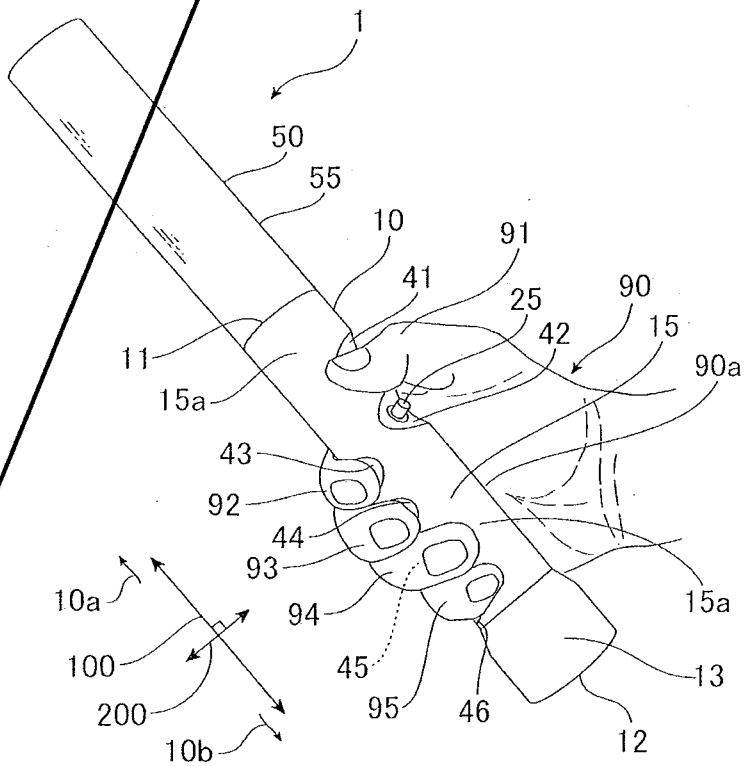

1
50
55
10
91
41
25
90
42
15
11
15a
90a
43
92
44
93
94
45
95
46
13
12
10a
100
200
10b
15a

Fig. 3

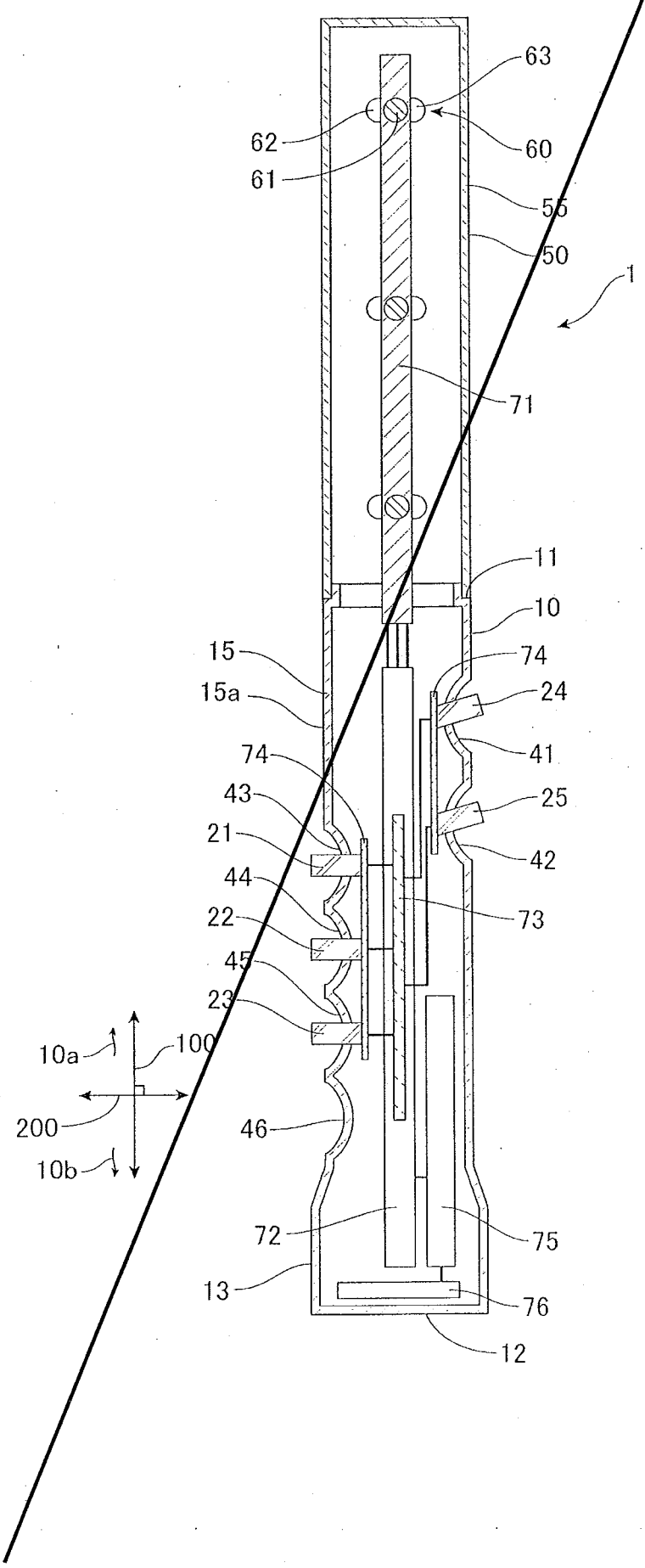

63
62
60
61
55
50
1
71
11
10
15
74
15a
24
74
41
43
25
21
42
44
73
22
45
23
10a
100
200
46
10b
72
75
13
76
12

Fig. 4

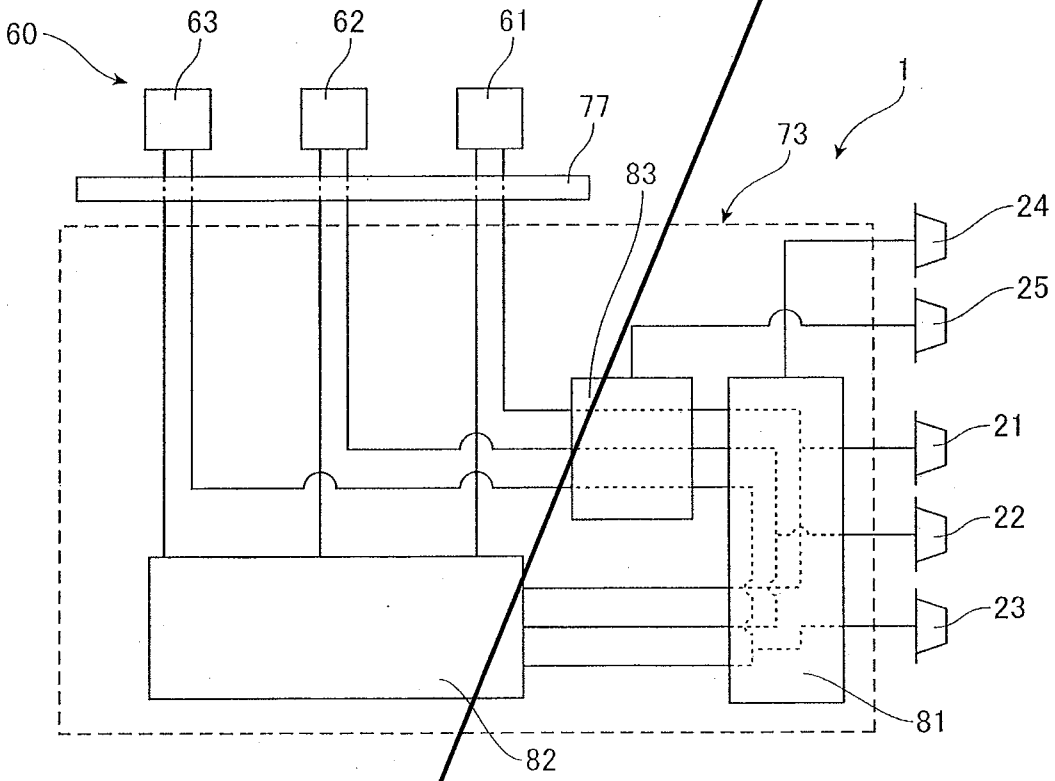


Fig. 5

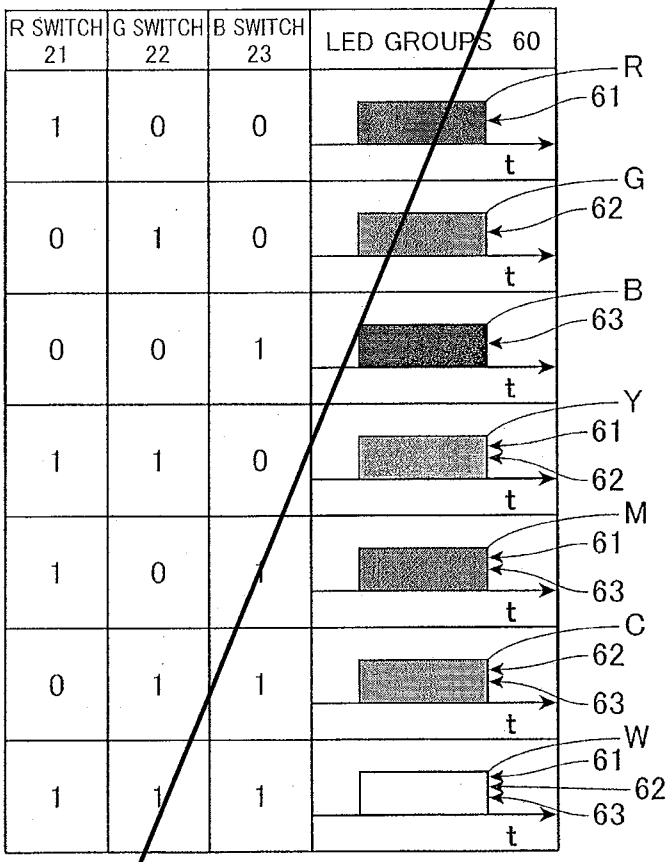

R SWITCH 21
G SWITCH 22
B SWITCH 23
LED GROUPS 60
1 0 0
0 1 0
0 0 1
1 1 0
1 0 1
0 1 1
1 1 1
R
61
G
62
B
63
Y
61
62
M
61
63
C
62
63
W
61
62
63
t

Fig. 6

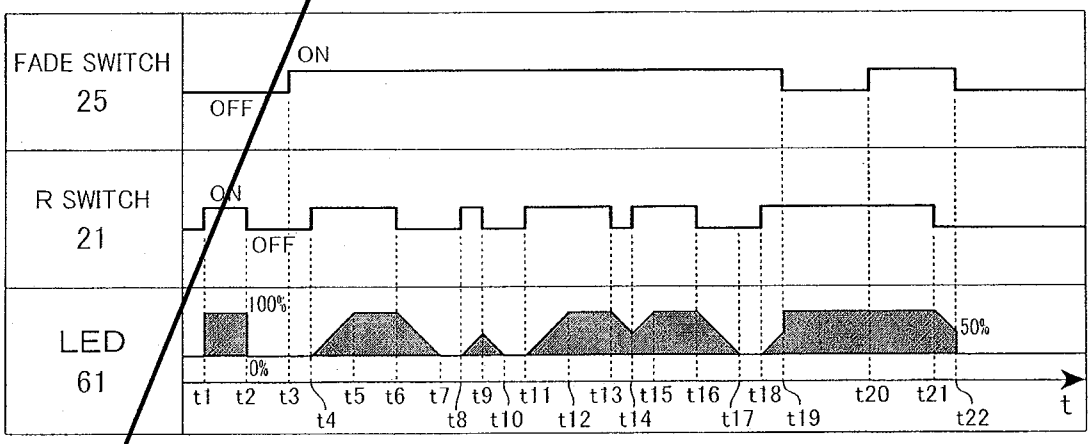

FADE SWITCH 25
ON
OFF
R SWITCH 21
ON
OFF
LED 61
100%
0%
50%
t1 t2 t3 t4 t5 t6 t7 t8 t9 t10 t11 t12 t13 t14 t15 t16 t17 t18 t19 t20 t21 t22
t

Fig. 7

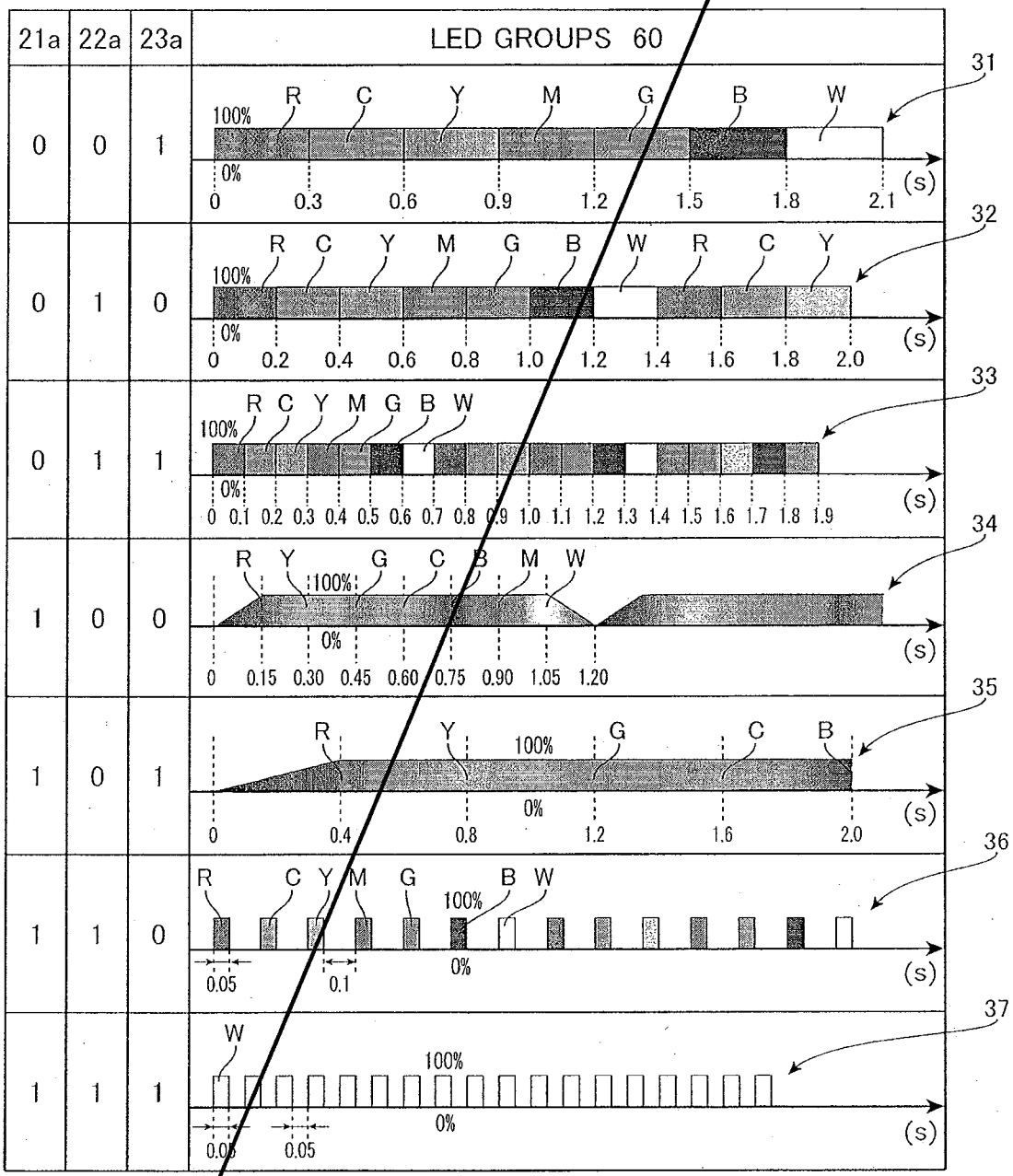

21a
22a
23a
LED GROUPS 60
0 0 1
R C Y M G B W
100%
0%
0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 (s)
31
0 1 0
R C Y M G B W R C Y
100%
0%
0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 (s)
32
0 1 1
R C Y M G B W
100%
0%
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 (s)
33
1 0 0
R Y G C B M W
100%
0%
0 0.15 0.30 0.45 0.60 0.75 0.90 1.05 1.20 (s)
34
1 0 1
R Y G C B
100%
0%
0 0.4 0.8 1.2 1.6 2.0 (s)
35
1 1 0
R C Y M G B W
100%
0%
0.05 0.1 (s)
36
1 1 1
W
100%
0%
0.05 0.05 (s)
37

Fig. 8

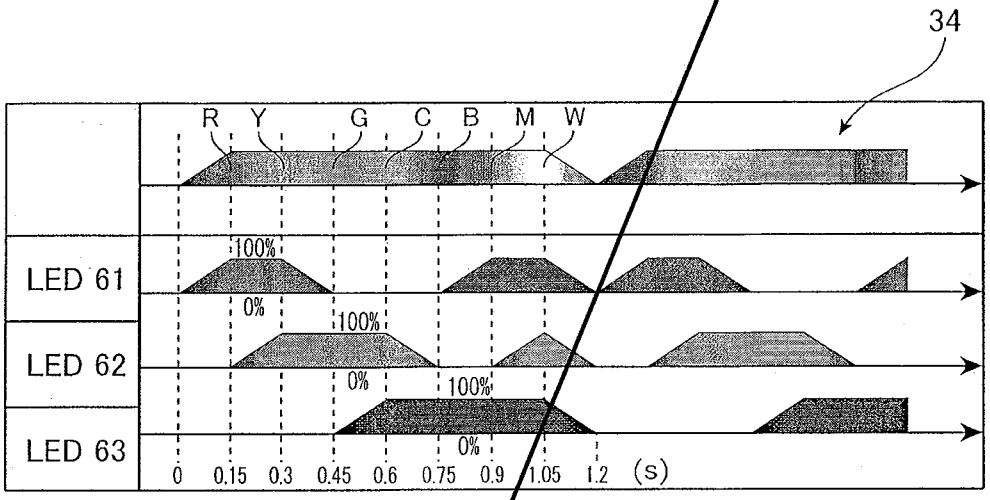

34
R
Y
G
C
B
M
W
LED 61
LED 62
LED 63
100%
0%
0
0.15
0.3
0.45
0.6
0.75
0.9
1.05
1.2
(s)

Fig. 9

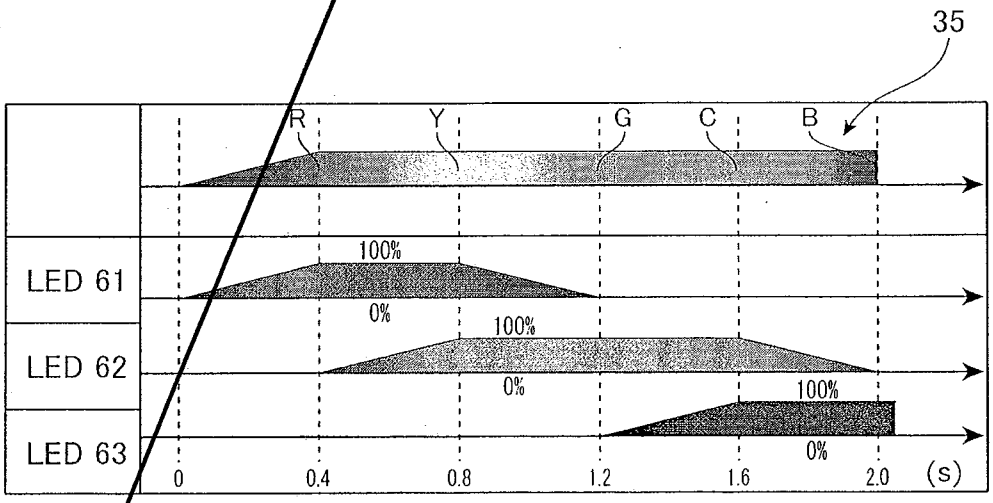

35
R
Y
G
C
B
LED 61
LED 62
LED 63
100%
0%
0
0.4
0.8
1.2
1.6
2.0
(s)

Fig. 10

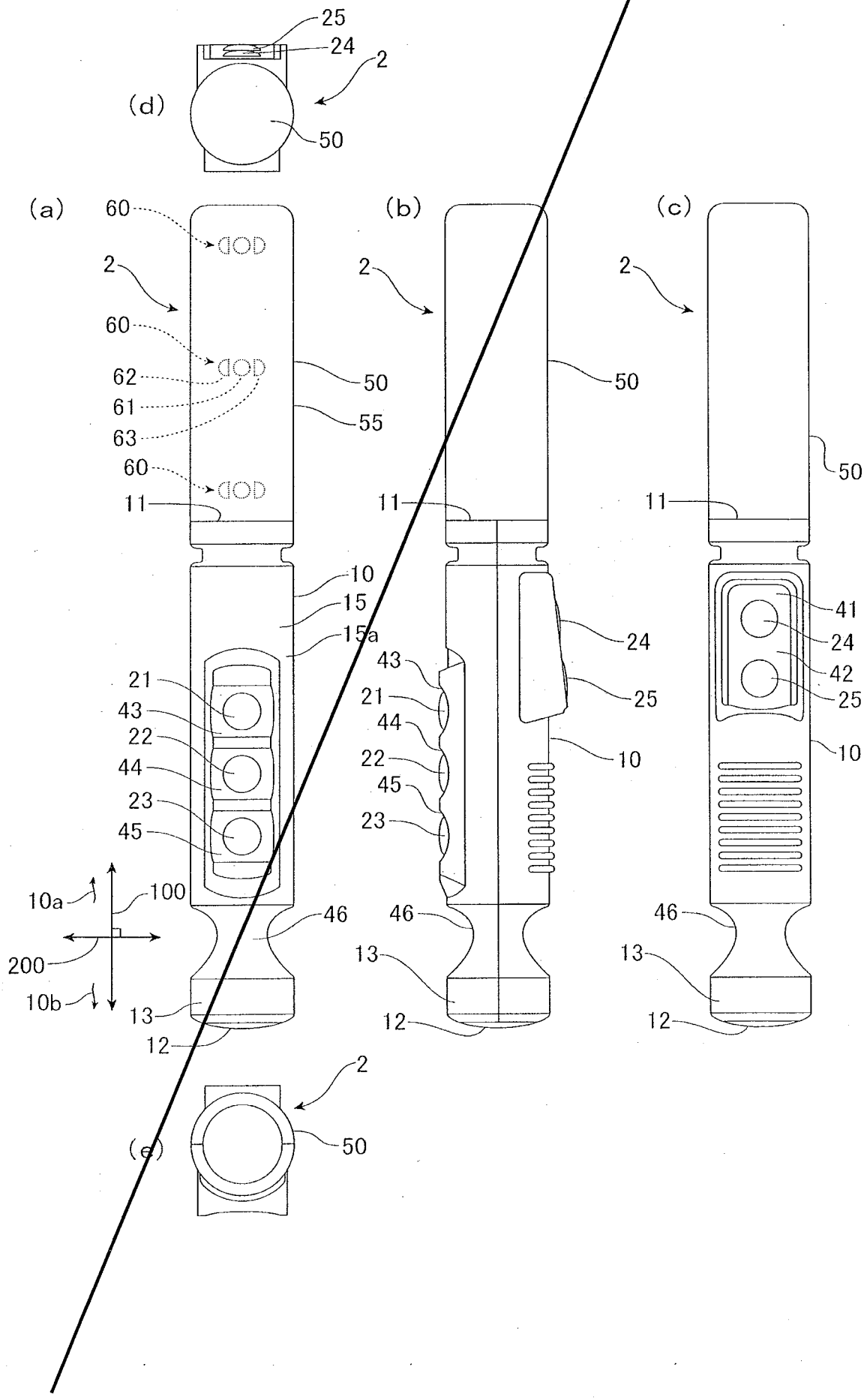

(d)
25
24
2
50
(a)
60
2
60
62
61
63
60
11
50
55
10
15
15a
21
43
22
44
23
45
10a
100
200
10b
13
12
46
(b)
2
50
11
24
25
10
43
21
44
22
45
23
46
13
12
(c)
2
50
11
41
24
42
25
10
46
13
12
(e)
2
50

Fig. 11

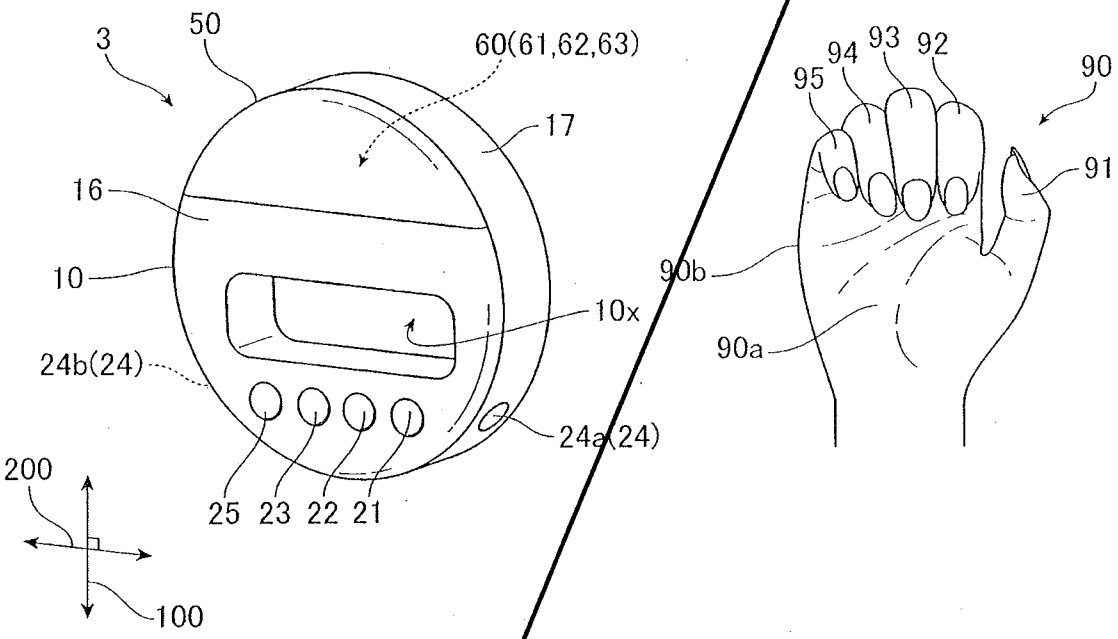

3
50
60(61,62,63)
17
16
10
10x
24b(24)
24a(24)
25
23
22
21
200
100
90
95
94
93
92
91
90b
90a

Fig. 12

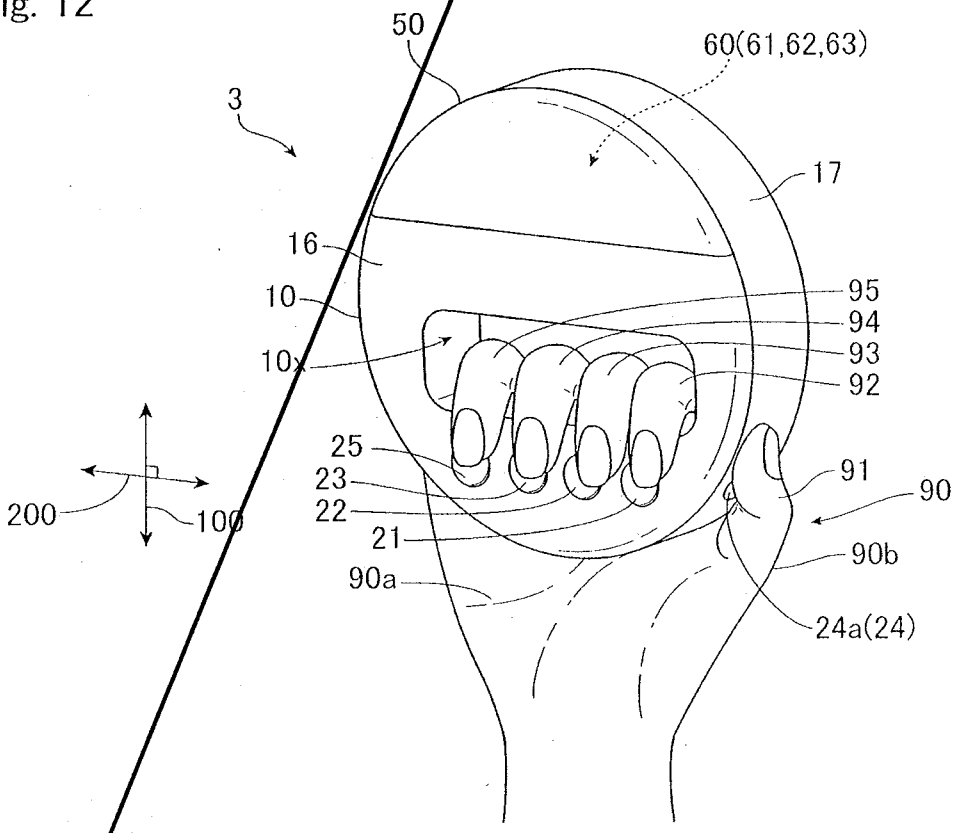

50
60(61,62,63)
3
17
16
10
10x
95
94
93
92
25
23
22
21
91
90
90b
90a
24a(24)
200
100

Fig. 13

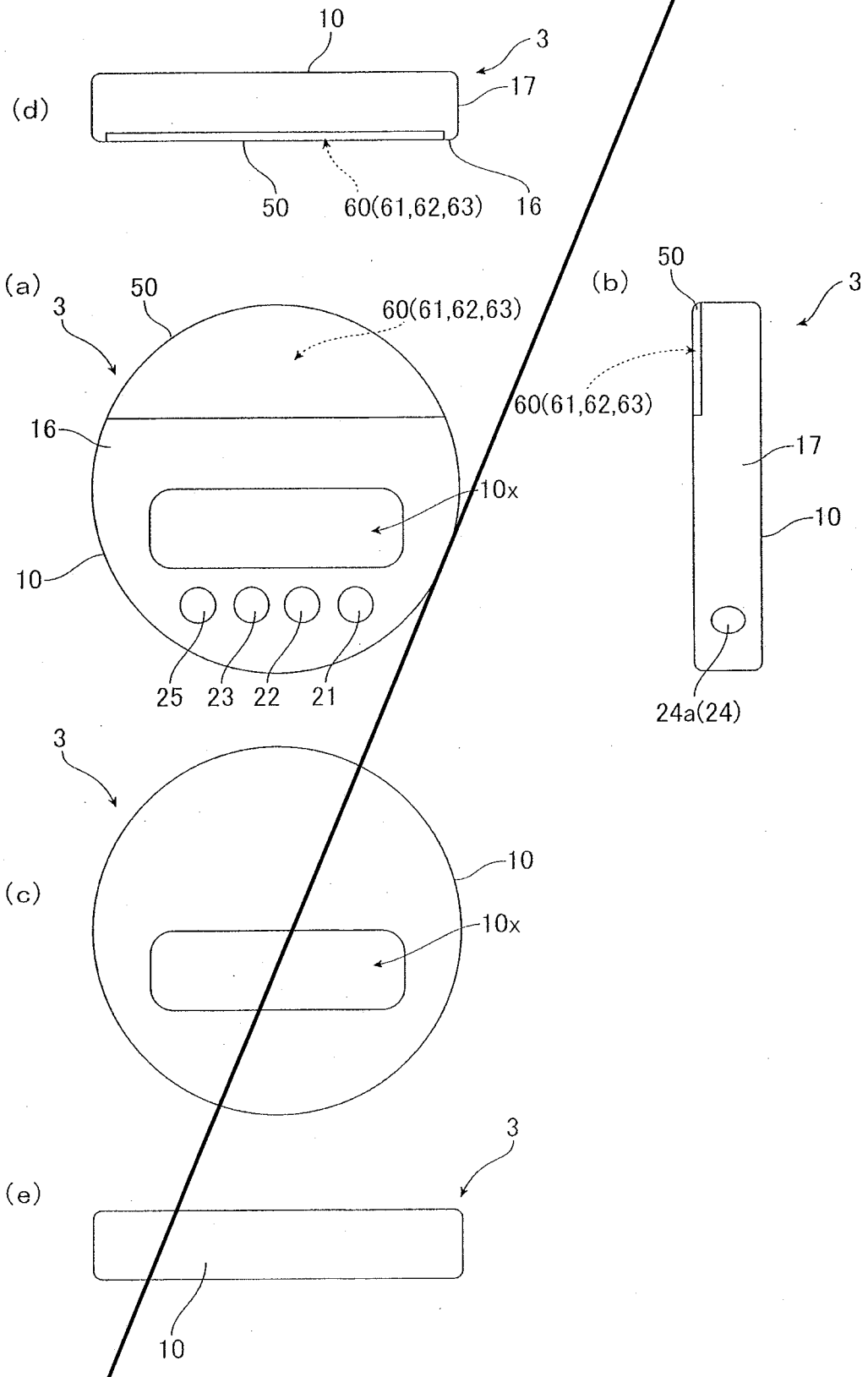

(d)
10
3
17
50
60(61,62,63)
16
(a)
3
50
60(61,62,63)
16
10x
10
25
23
22
21
(b)
50
3
60(61,62,63)
17
10
24a(24)
(c)
3
10
10x
(e)
3
10

Fig. 14

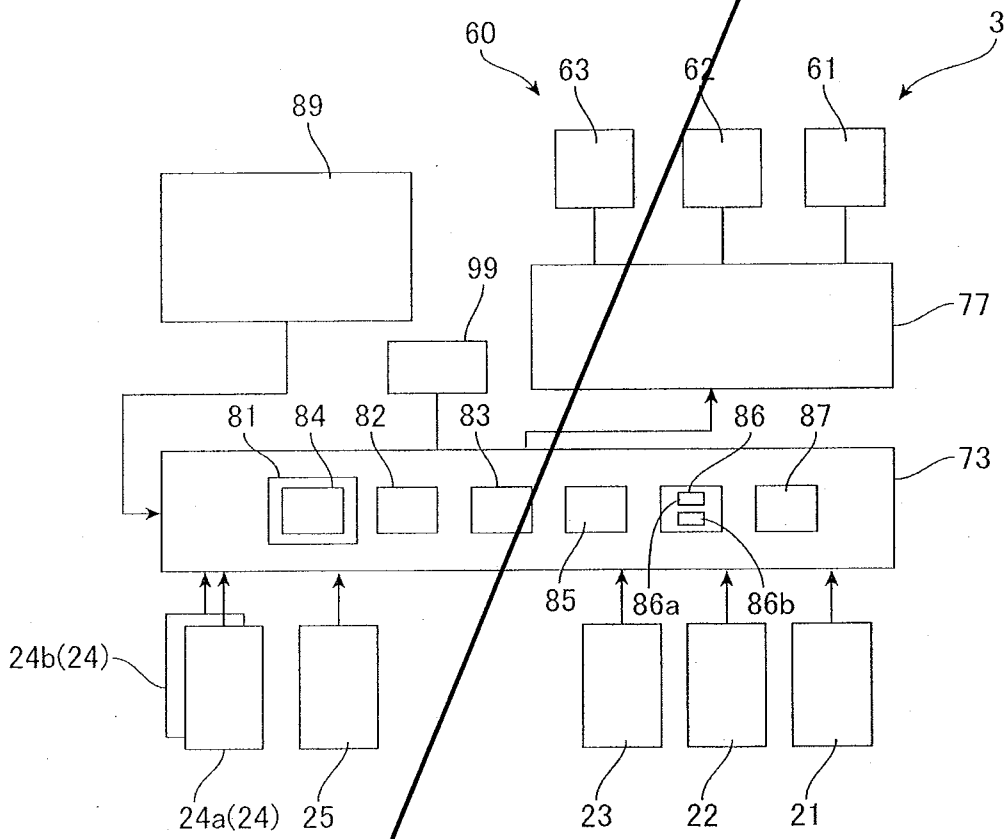

60
63
62
61
3
89
99
77
81
84
82
83
86
87
73
85
86a
86b
24b(24)
24a(24)
25
23
22
21

Fig. 1

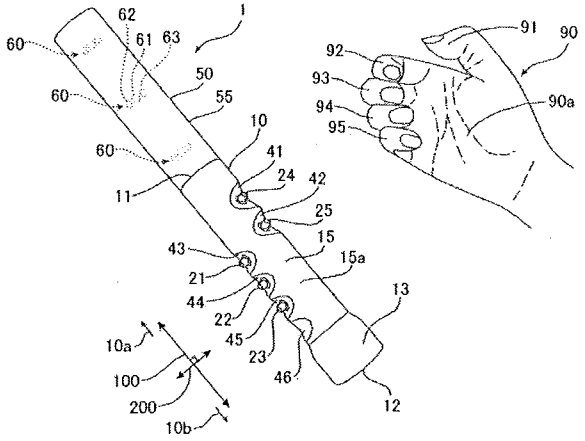


Fig. 2

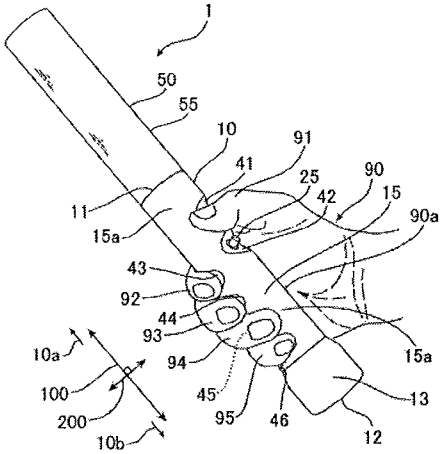


Fig. 3

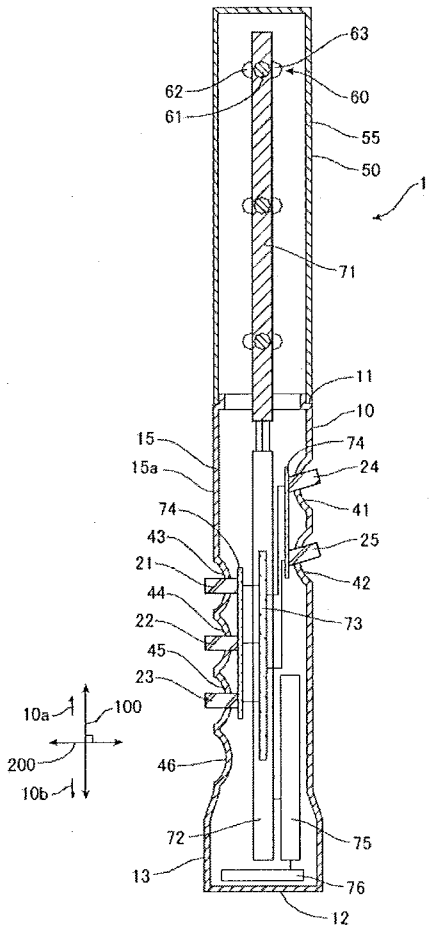


Fig. 4

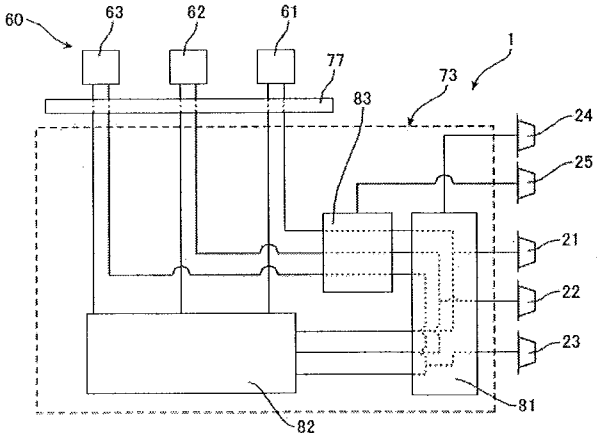


Fig. 10

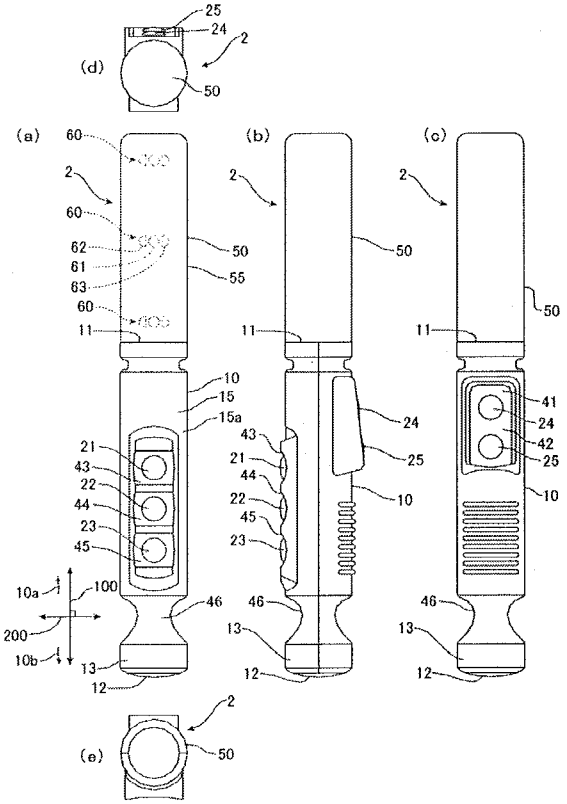

(d)
25
24
2
50
(a)
60
2
60
62
61
63
60
11
50
55
10
15
15a
21
43
22
44
23
45
10a
100
200
10b
46
13
12
(b)
2
50
11
24
25
10
43
21
44
22
45
23
46
13
12
(c)
2
50
11
41
24
42
25
10
46
13
12
(e)
2
50

Fig. 14

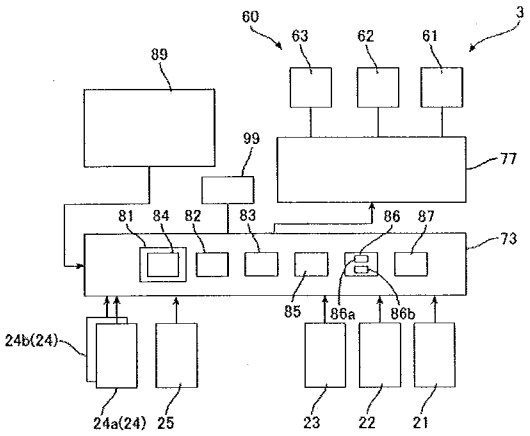

60
63
62
61
3
89
99
77
81
84
82
83
86
87
73
85
86a
86b
24b(24)
24a(24)
25
23
22
21

Fig. 5

R SWITCH 21	G SWITCH 22	B SWITCH 23	LED GROUPS 60
1	0	0	R 61 t
0	1	0	G 62 t
0	0	1	B 63 t
1	1	0	Y 61 62 t
1	0	1	M 61 63 t
0	1	1	C 62 63 t
1	1	1	W 61 62 63 t

Fig. 6

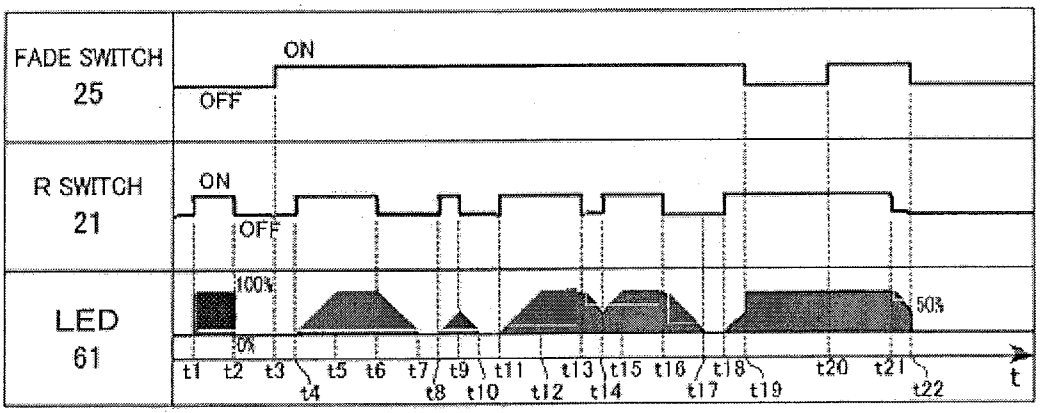


Fig. 7

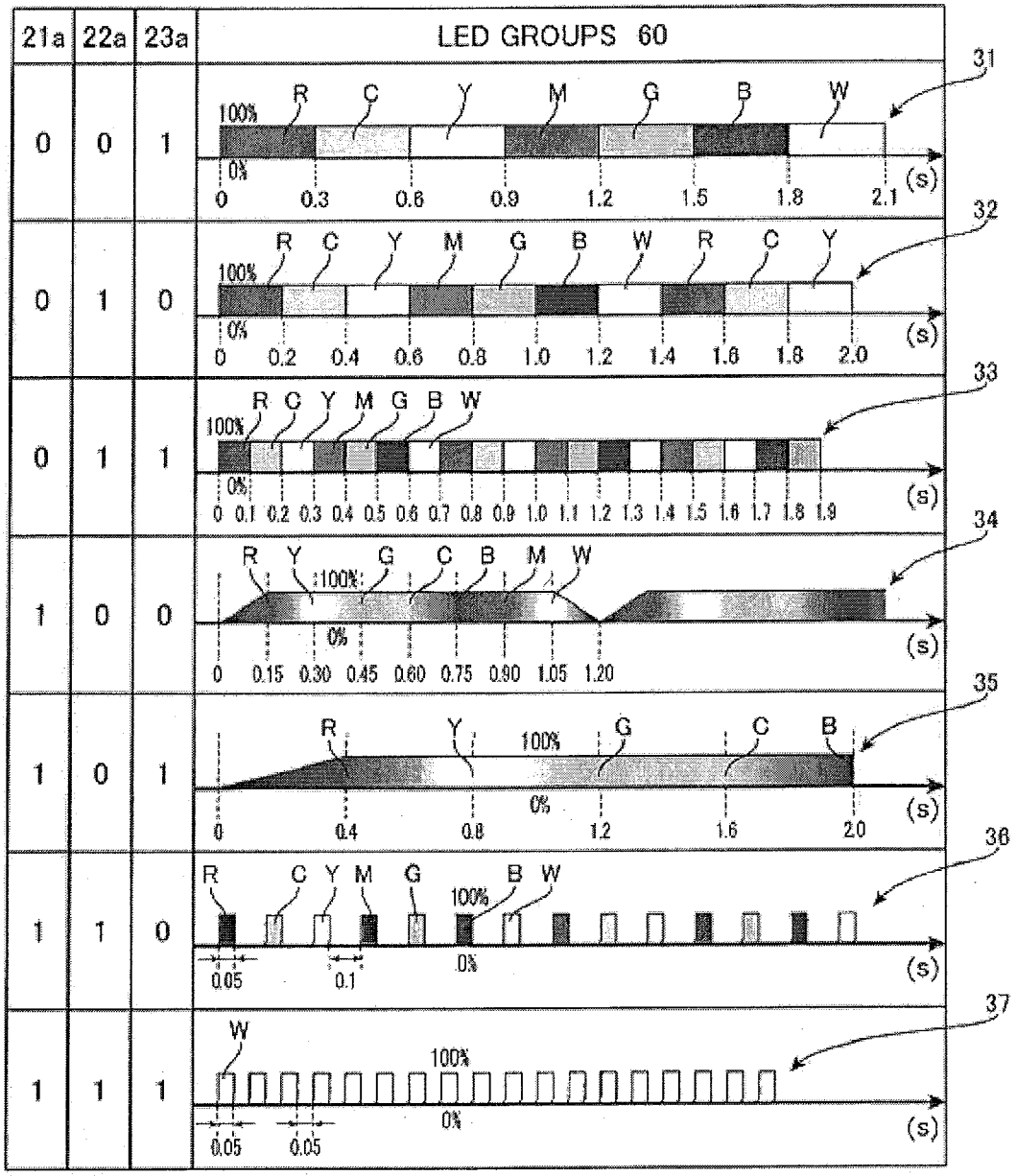

21a
22a
23a
LED GROUPS 60
0 0 1
0 1 0
0 1 1
1 0 0
1 0 1
1 1 0
1 1 1
31
32
33
34
35
36
37
R C Y M G B W
100%
0%
0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 (s)
R C Y M G B W R C Y
0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 (s)
R C Y M G B W
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 (s)
R Y G C B M W
0 0.15 0.30 0.45 0.60 0.75 0.90 1.05 1.20 (s)
R Y G C B
0 0.4 0.8 1.2 1.6 2.0 (s)
R C Y M G B W
0.05 0.1 (s)
W
0.05 0.05 (s)

Fig. 8

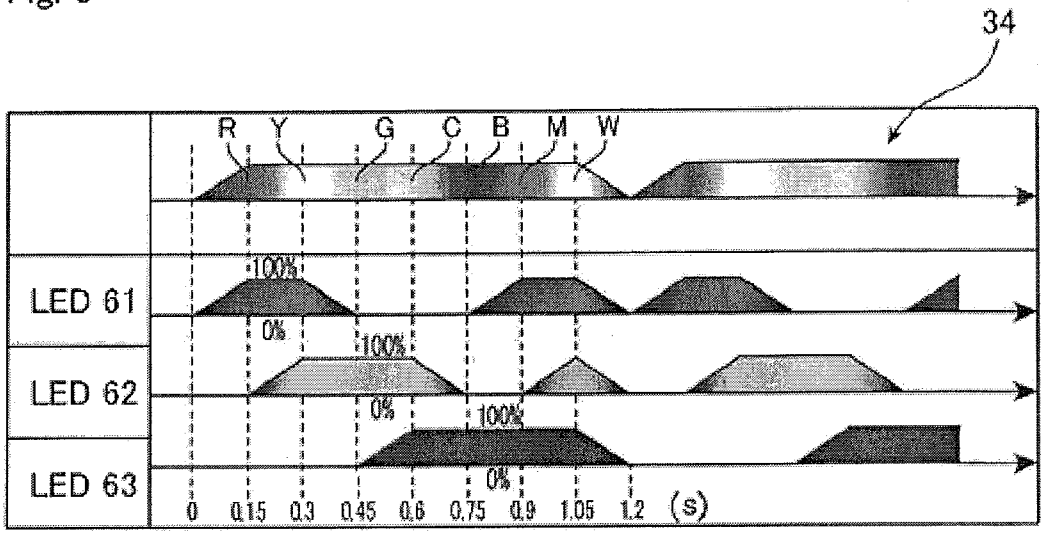

34
R
Y
G
C
B
M
W
LED 61
LED 62
LED 63
100%
0%
0
0.15
0.3
0.45
0.6
0.75
0.9
1.05
1.2
(s)

Fig. 9

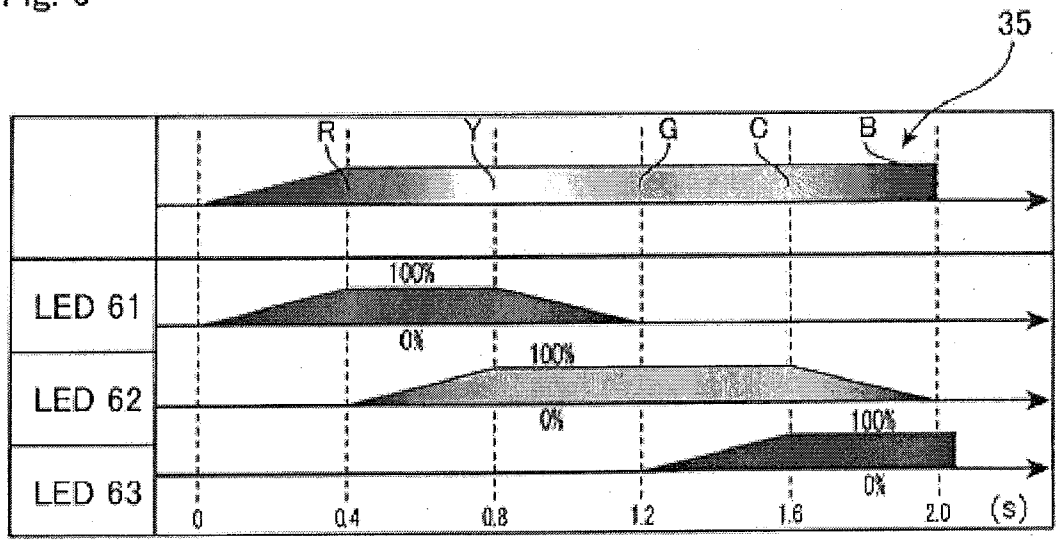

35
R
Y
G
C
B
LED 61
LED 62
LED 63
100%
0%
0
0.4
0.8
1.2
1.6
2.0
(s)

Fig. 11

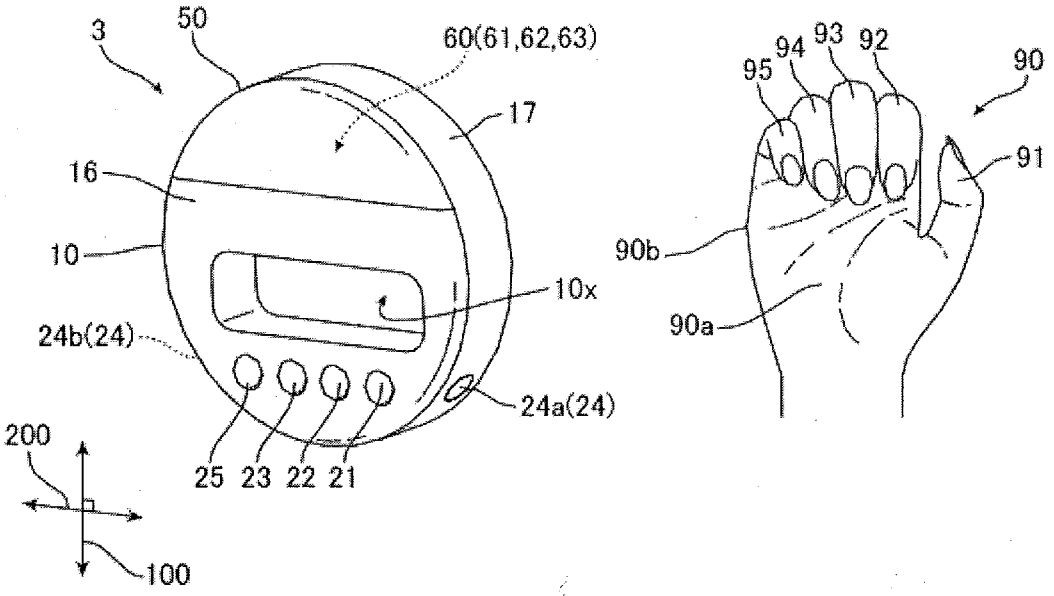

3
50
60(61,62,63)
17
16
10
10x
24b(24)
24a(24)
25
23
22
21
200
100
95
94
93
92
90
91
90b
90a

Fig. 12

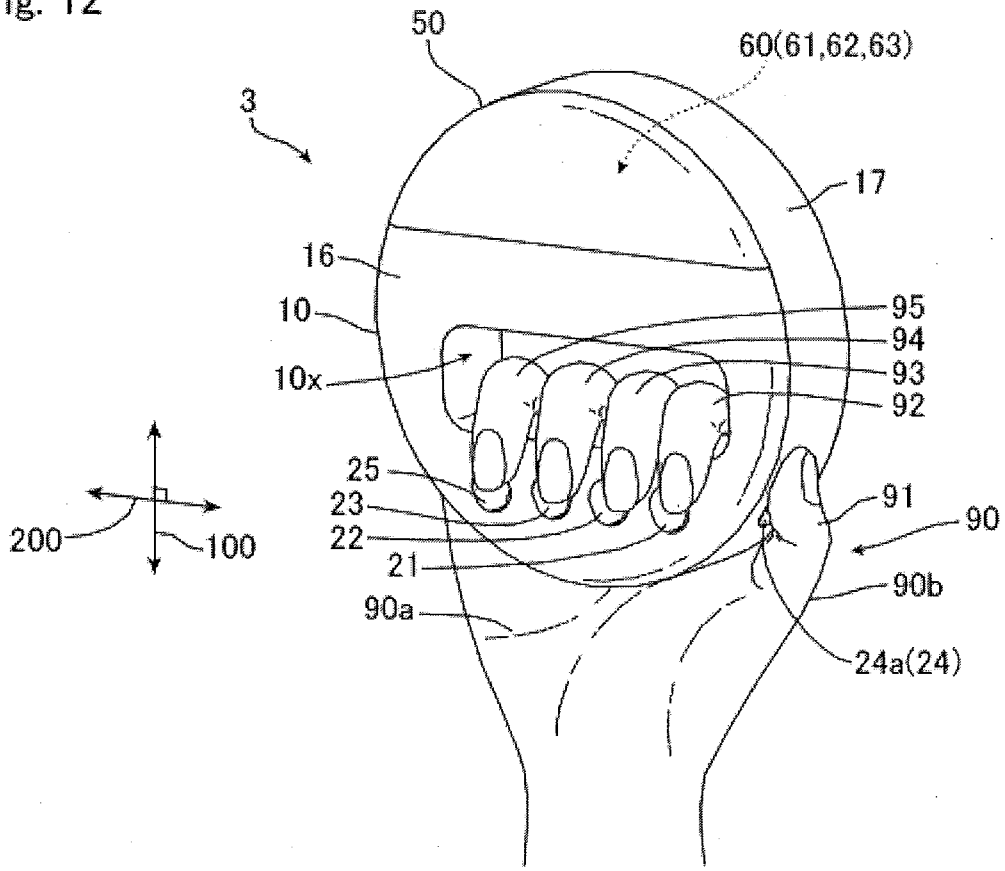
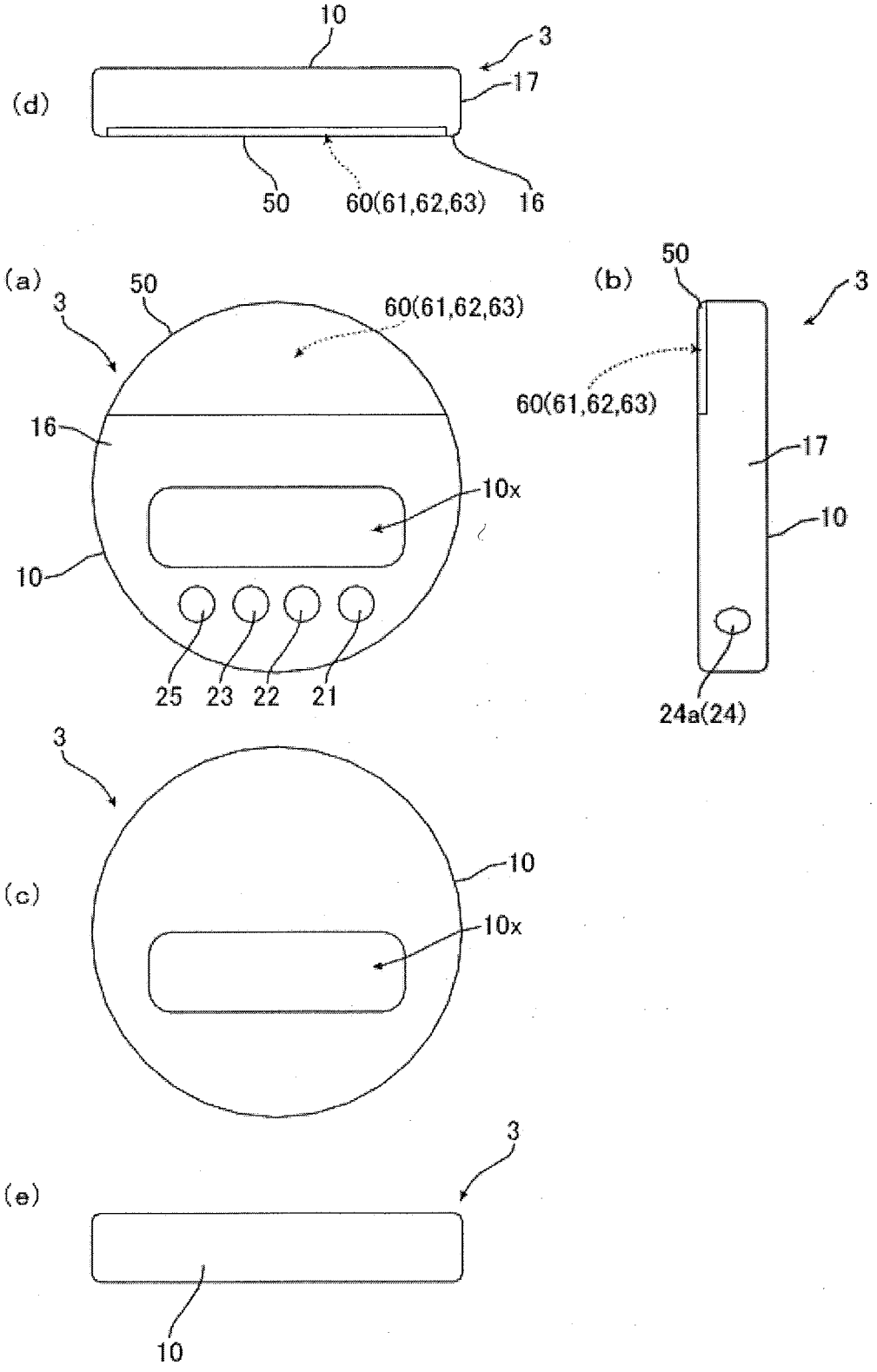

50
60(61,62,63)
3
17
16
10
10x
95
94
93
92
25
23
22
21
90a
91
90
90b
24a(24)
200
100

Fig. 13


(d)
10
3
17
50
60(61,62,63)
16
(a)
3
50
60(61,62,63)
16
10x
10
25
23
22
21
(b)
50
3
60(61,62,63)
17
10
24a(24)
(c)
3
10
10x
(e)
3
10