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FIG. 1

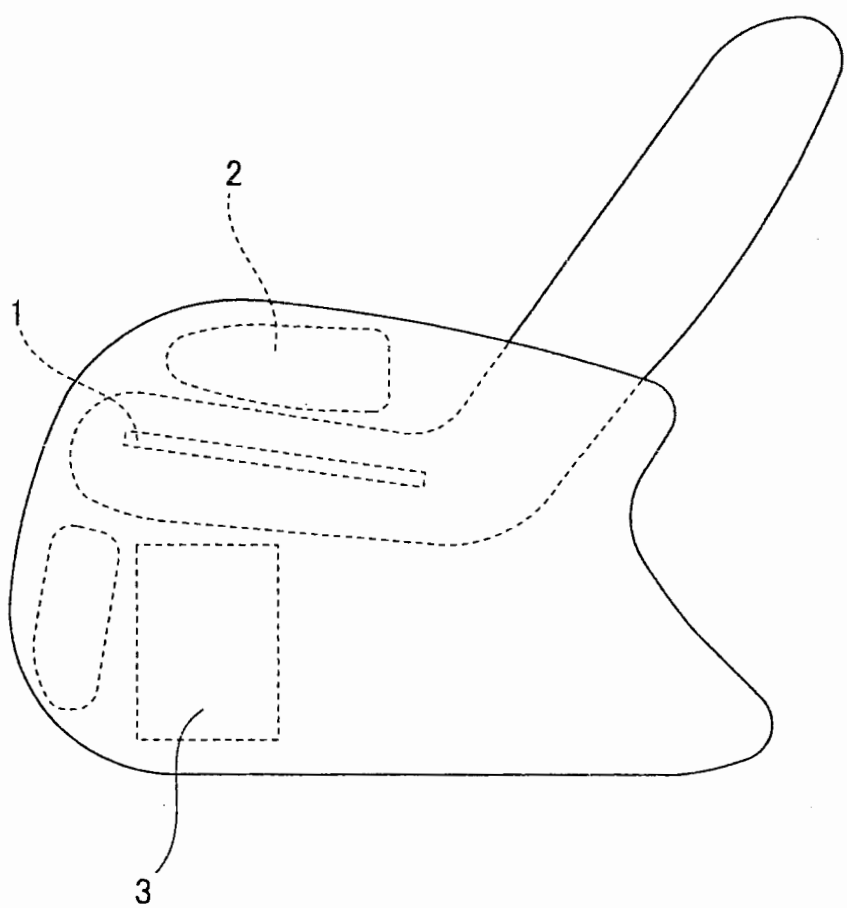


FIG. 2

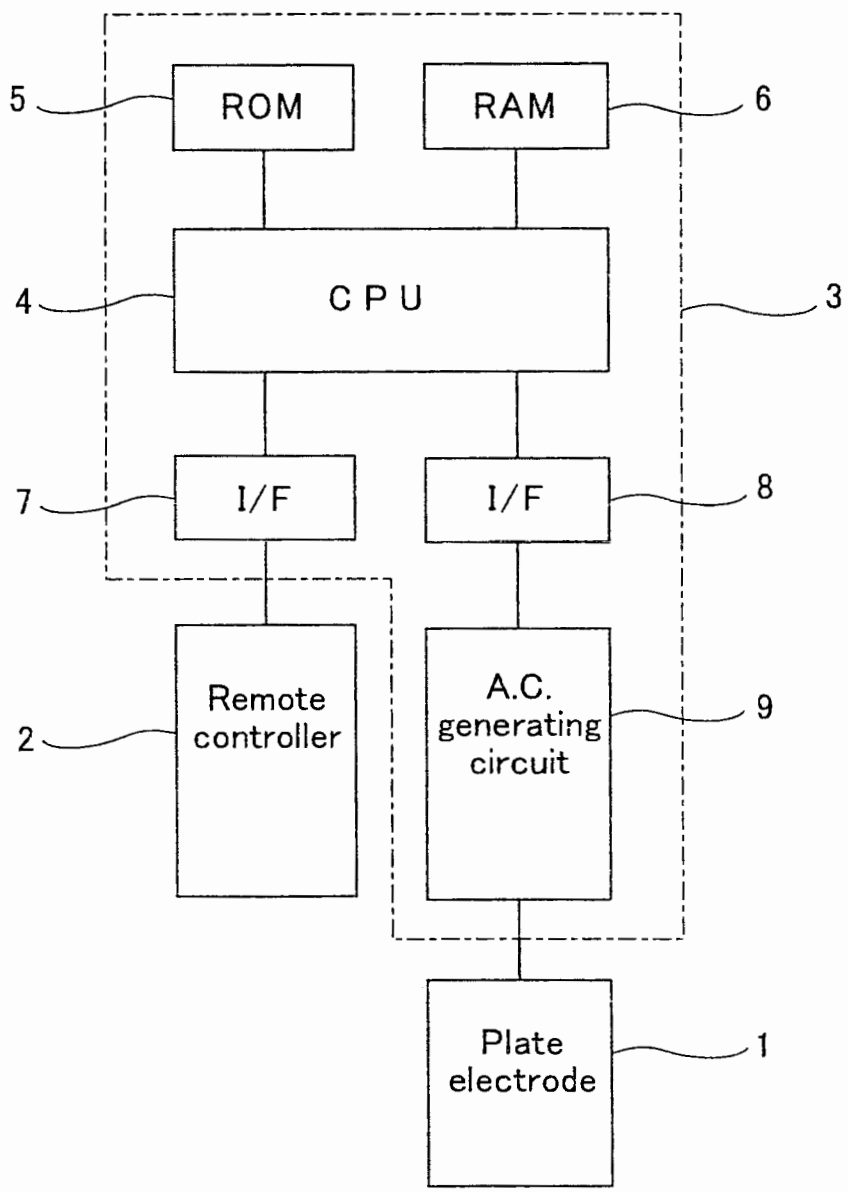

5
ROM
RAM
6
4
CPU
3
7
I/F
I/F
8
2
Remote controller
A.C. generating circuit
9
Plate electrode
1

FIG. 3

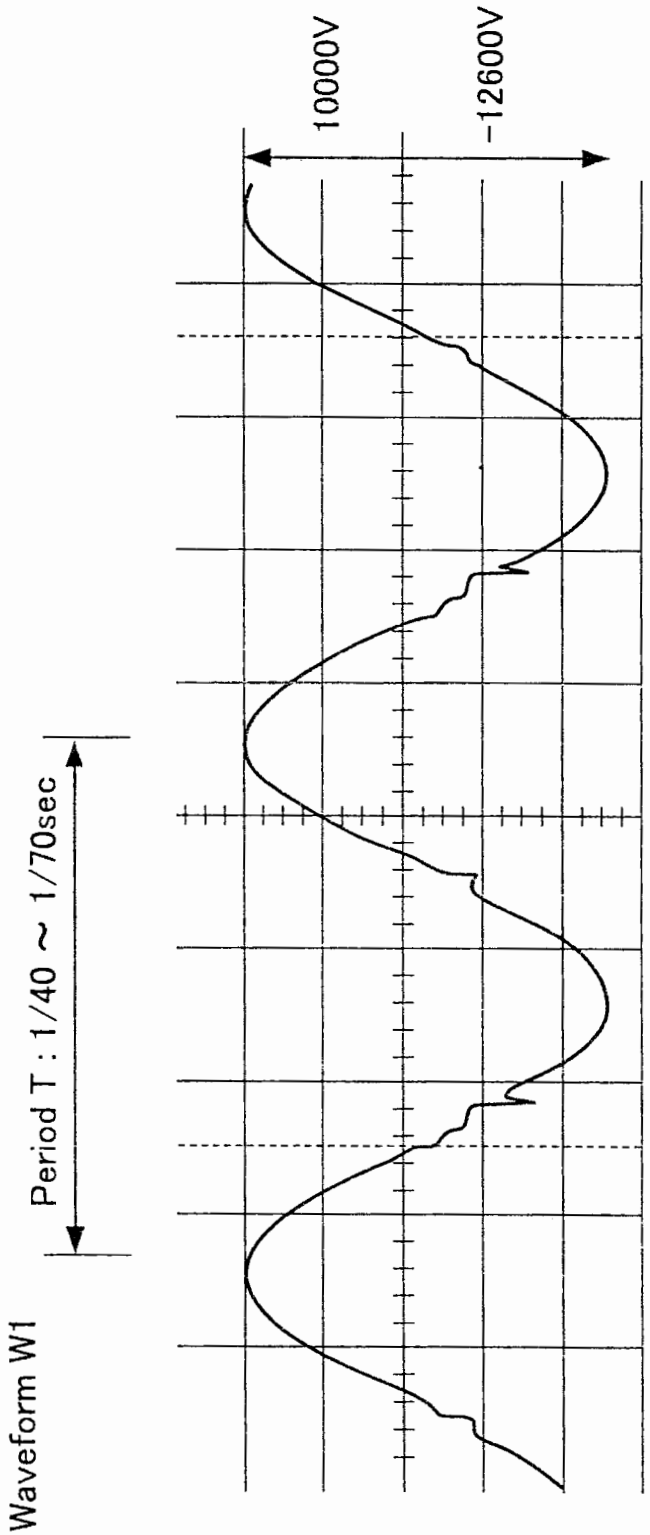


FIG. 4

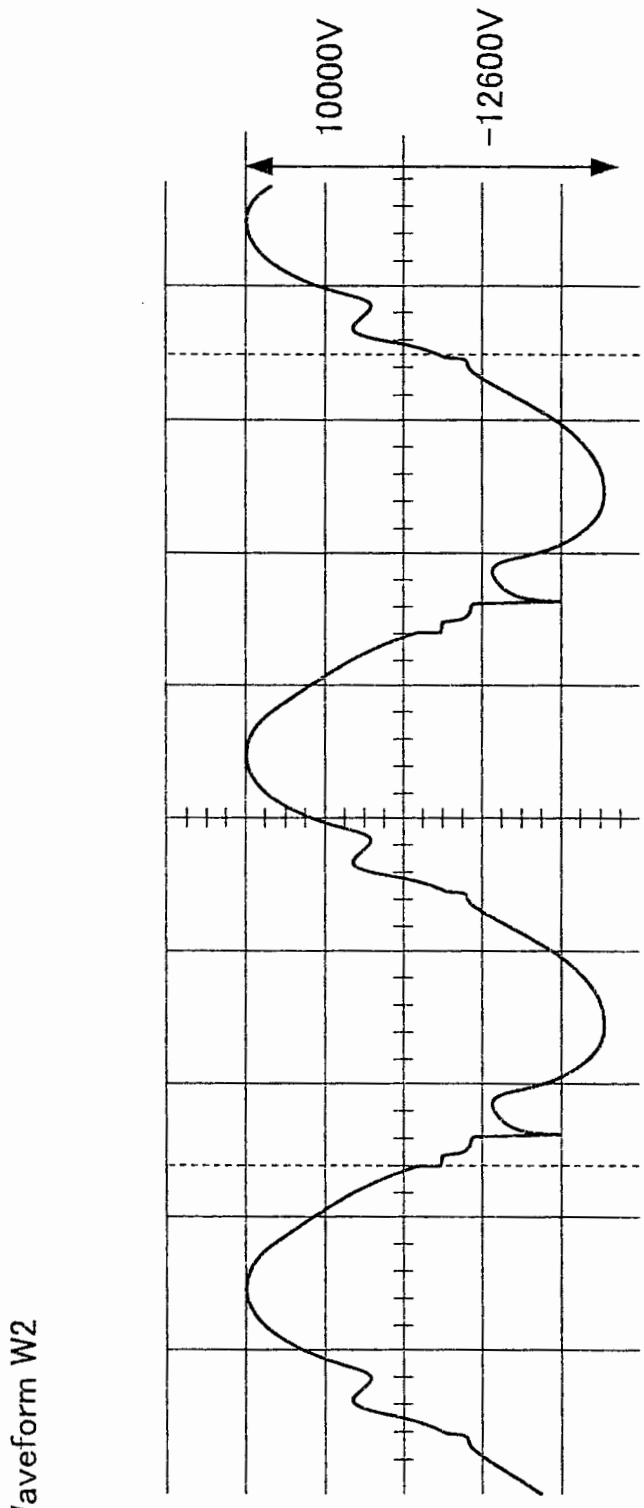


FIG. 5

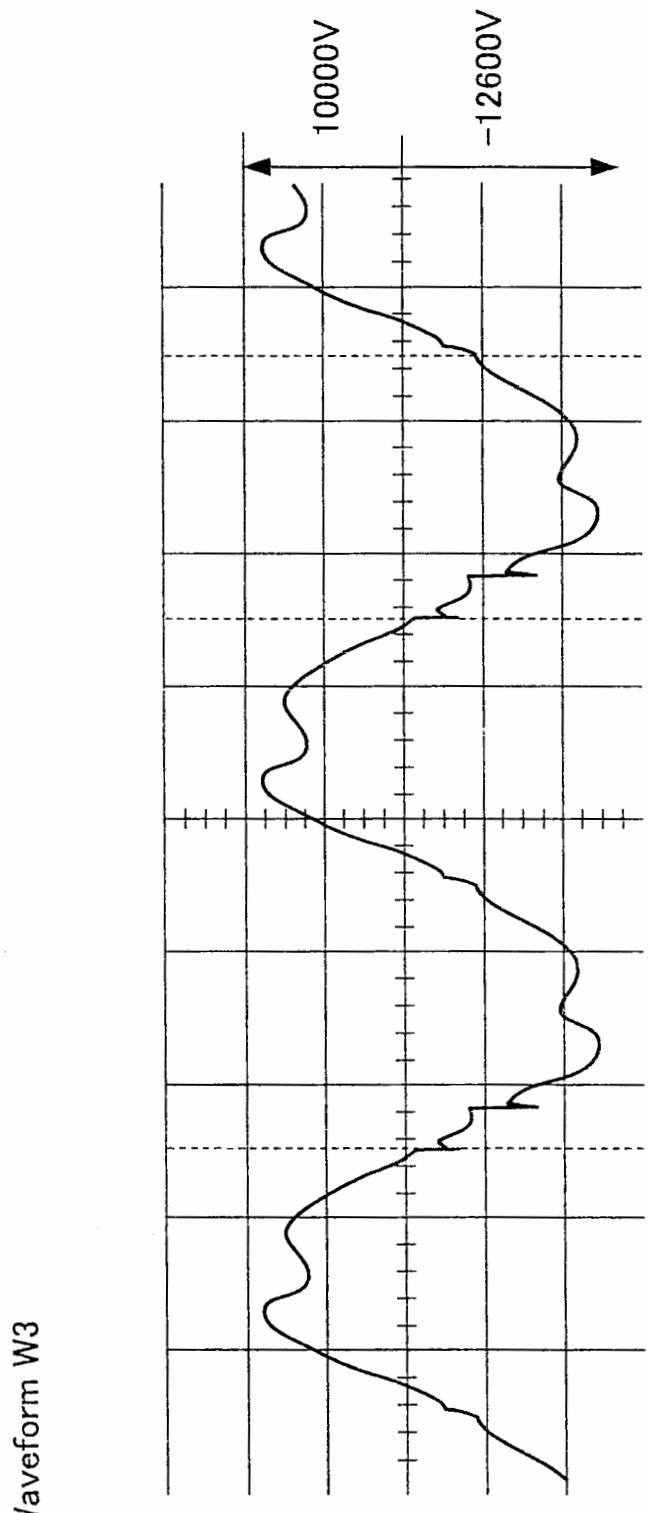


FIG. 6

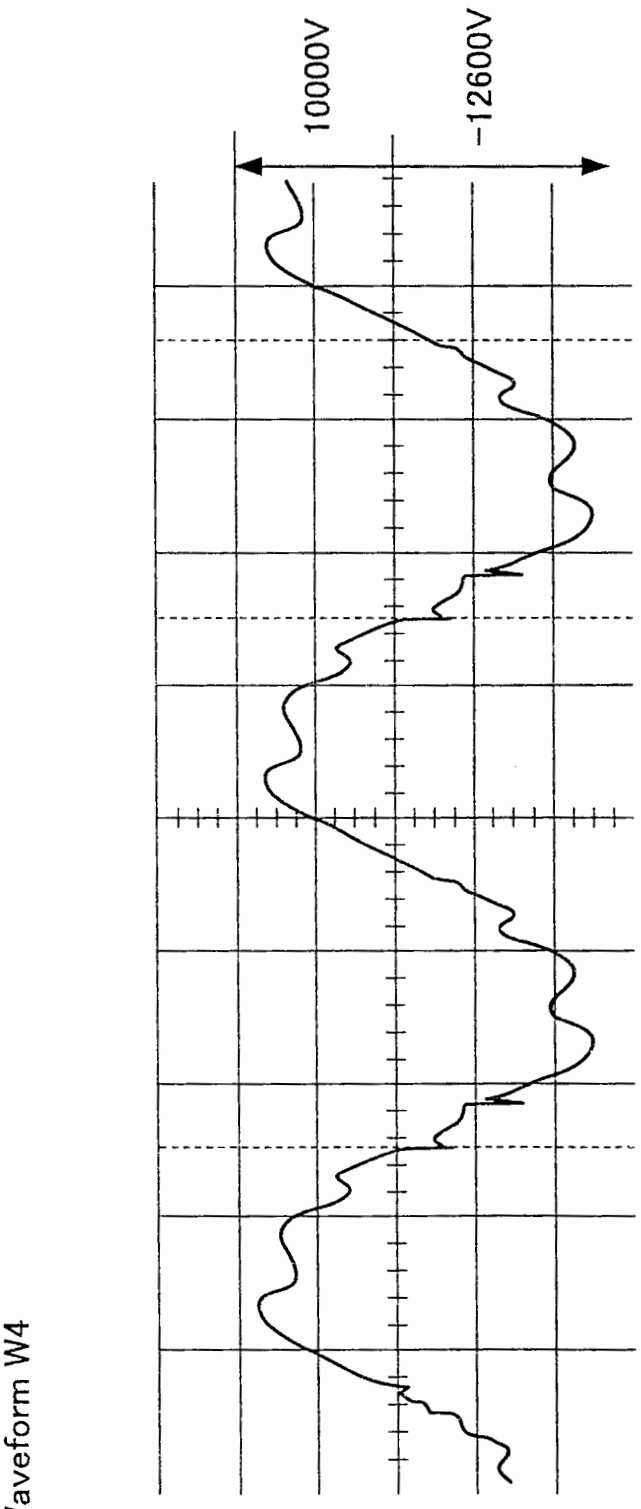


FIG. 7

1 ～ 30 sec.	: waveform W1, frequency 40 Hz
31 ～ 60 sec.	: waveform W2, frequency 50 Hz
61 ～ 90 sec.	: waveform W3, frequency 60 Hz
91 ～ 120 sec.	: waveform W4, frequency 70 Hz

FIG. 8

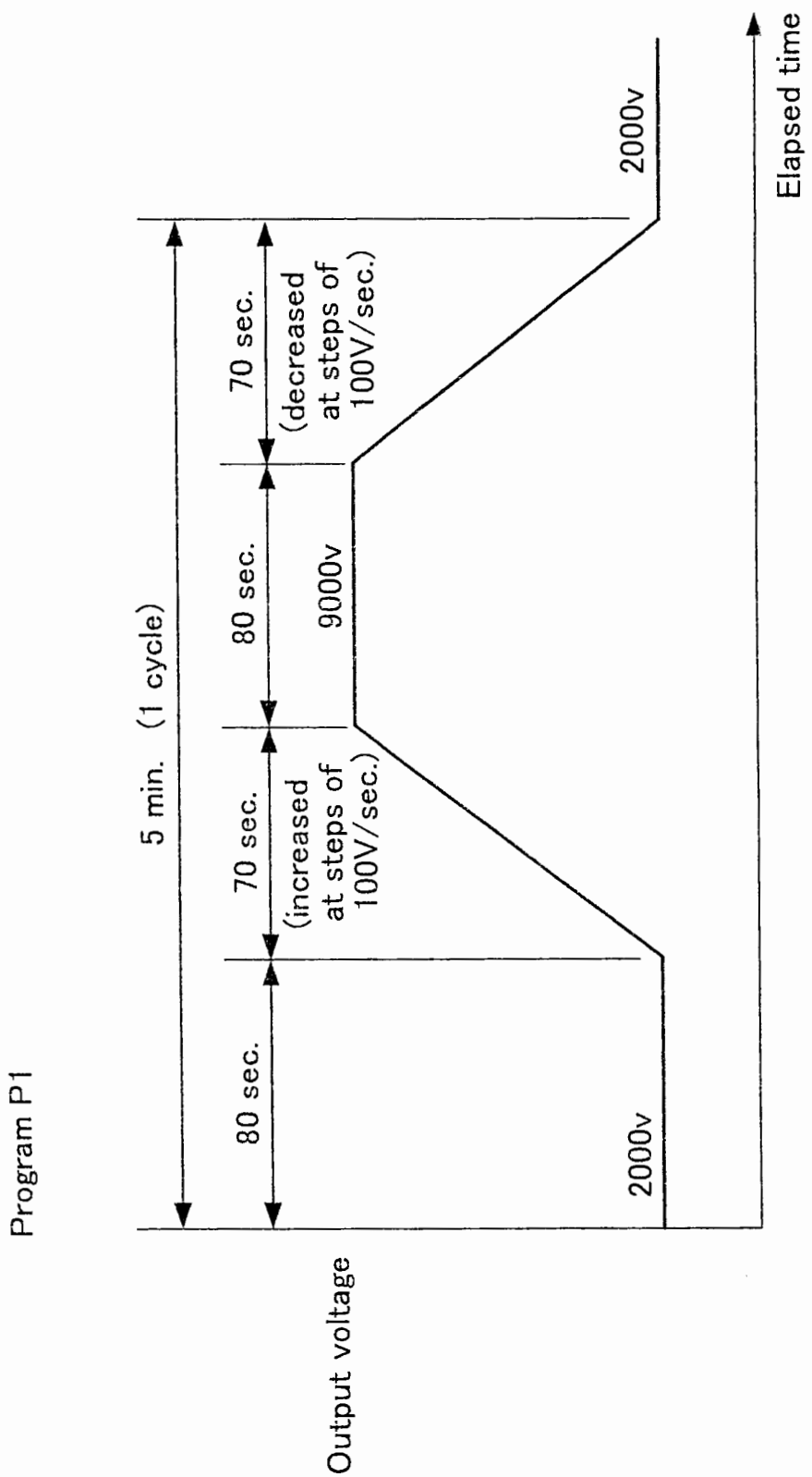

Program P1
5 min. (1 cycle)
80 sec.
70 sec.
(increased at steps of 100V/sec.)
80 sec.
9000v
70 sec.
(decreased at steps of 100V/sec.)
2000v
2000v
Output voltage
Elapsed time

FIG. 9

1～30 sec.	: voltage 2,000 V, waveform W1, frequency 40 Hz
31～60 sec.	: voltage 2,000 V, waveform W2, frequency 50 Hz
61～80 sec.	: voltage 2,000 V, waveform W3, frequency 60 Hz
81～90 sec.	: voltage 2,100～3,000 V, waveform W3, frequency 60 Hz
91～120 sec.	: voltage 3,100～6,000 V, waveform W4, frequency 70 Hz
121～150 sec.	: voltage 6,100～9,000 V, waveform W1, frequency 40 Hz
151～180 sec.	: voltage 9,000 V, waveform W2, frequency 50 Hz
181～210 sec.	: voltage 9,000 V, waveform W3, frequency 60 Hz
211～230 sec.	: voltage 9,000 V, waveform W4, frequency 70 Hz
231～240 sec.	: voltage 8,900～8,000 V, waveform W4, frequency 70 Hz
241～270 sec.	: voltage 7,900～5,000 V, waveform W1, frequency 40 Hz
271～300 sec.	: voltage 4,900～2,000 V, waveform 2, frequency 50 Hz

FIG. 10

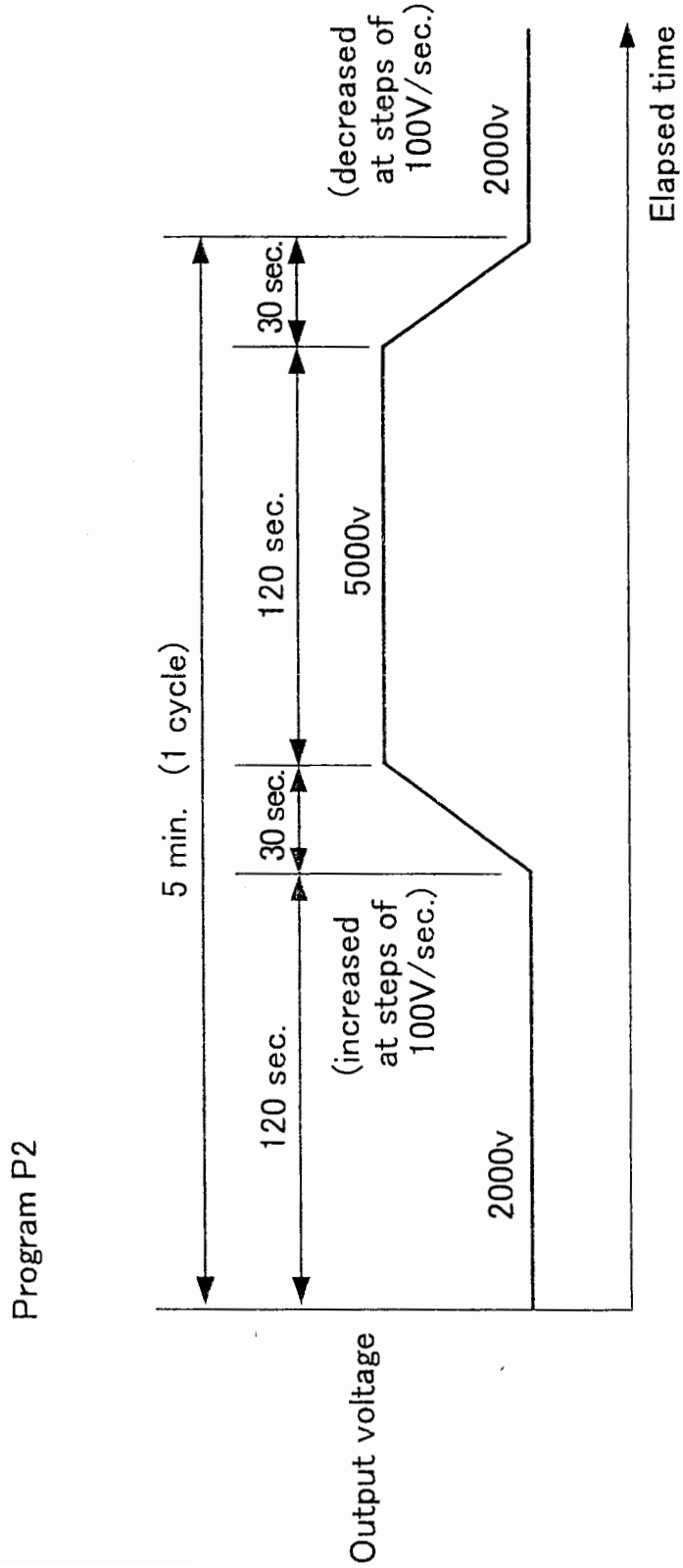

Program P2
Output voltage
Elapsed time
5 min. (1 cycle)
120 sec.
30 sec.
120 sec.
30 sec.
(increased at steps of 100V/sec.)
(decreased at steps of 100V/sec.)
2000v
5000v
2000v

FIG. 11

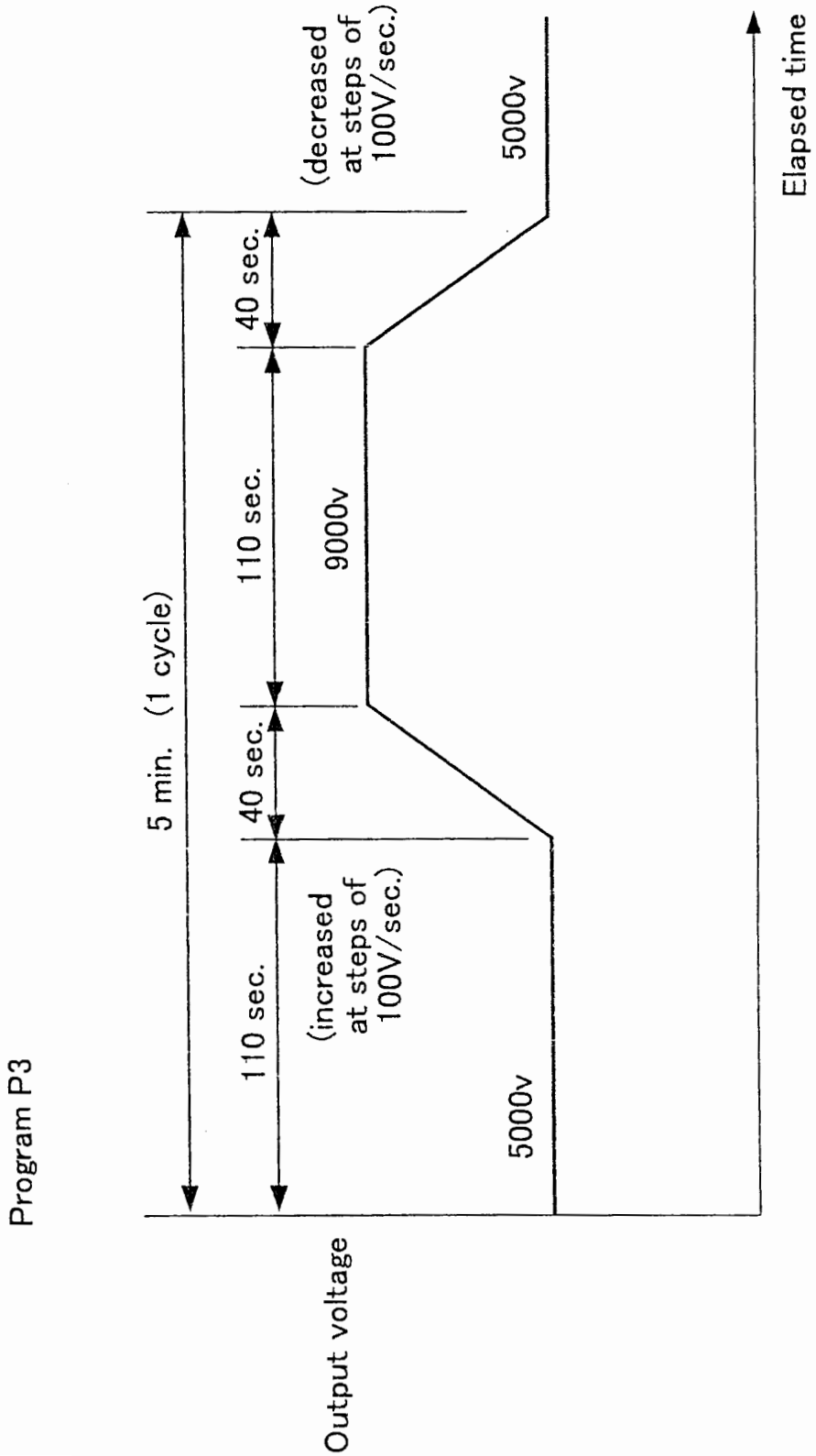

Program P3
Output voltage
Elapsed time
5 min. (1 cycle)
110 sec.
40 sec.
110 sec.
40 sec.
(increased at steps of 100V/sec.)
(decreased at steps of 100V/sec.)
5000v
9000v
5000v

FIG. 12

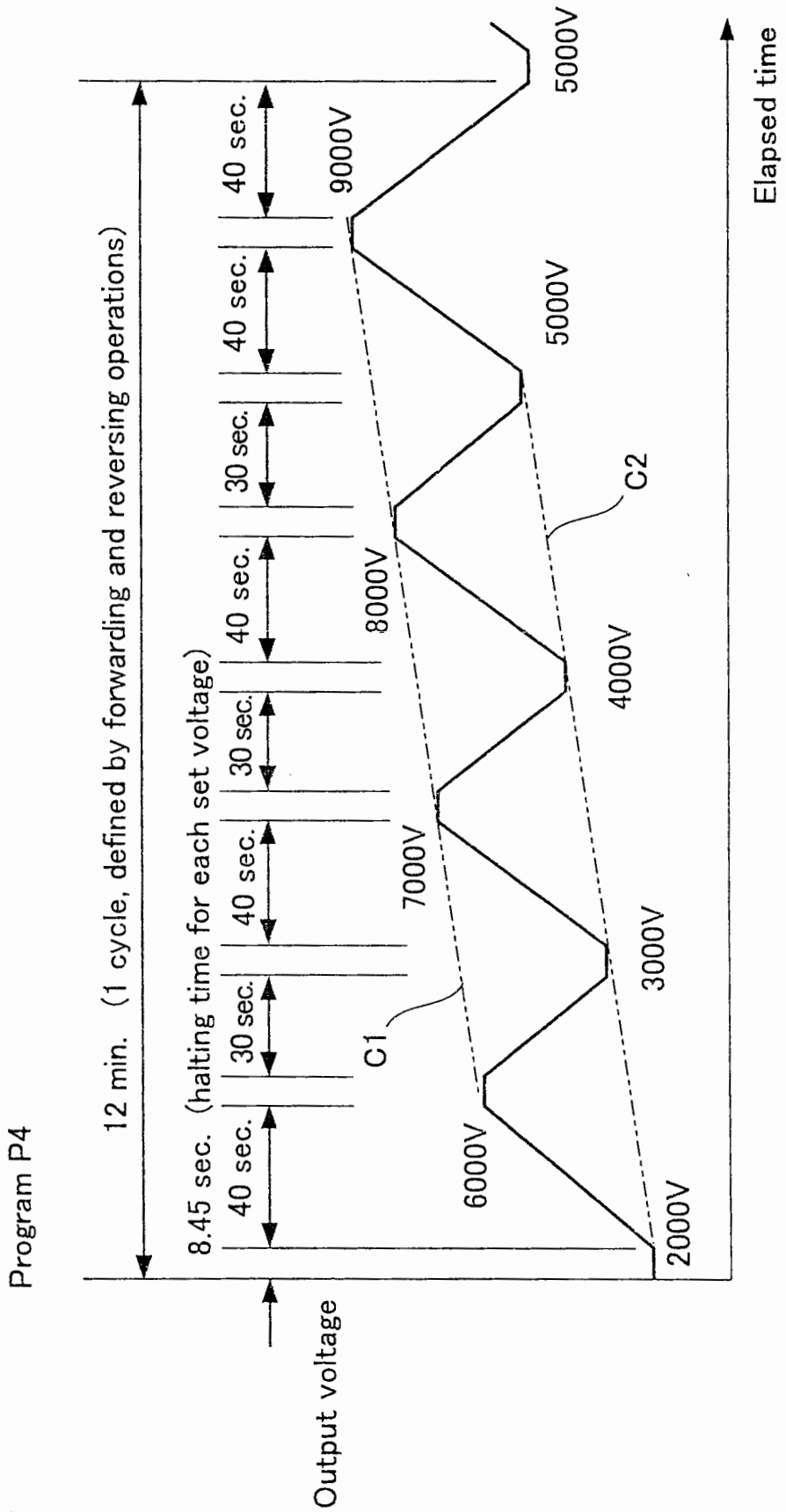

Program P4
12 min. (1 cycle, defined by forwarding and reversing operations)
8.45 sec. (halting time for each set voltage)
40 sec.
30 sec.
40 sec.
30 sec.
40 sec.
30 sec.
40 sec.
30 sec.
40 sec.
2000V
6000V
3000V
7000V
4000V
8000V
5000V
9000V
5000V
C1
C2
Output voltage
Elapsed time

FIG. 13(a)

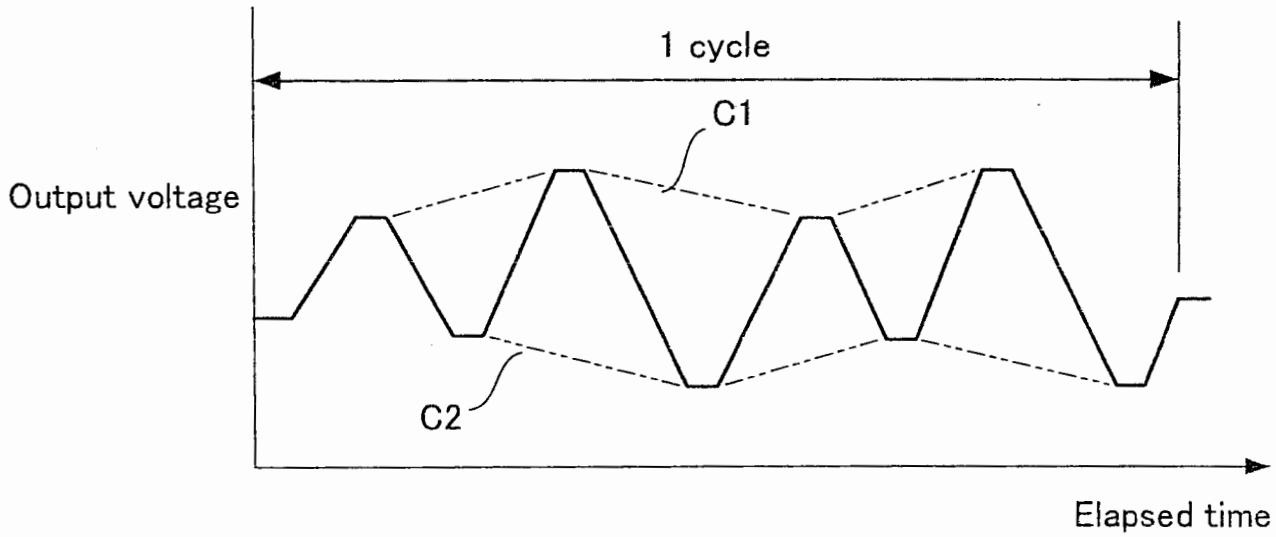


FIG. 13(b)

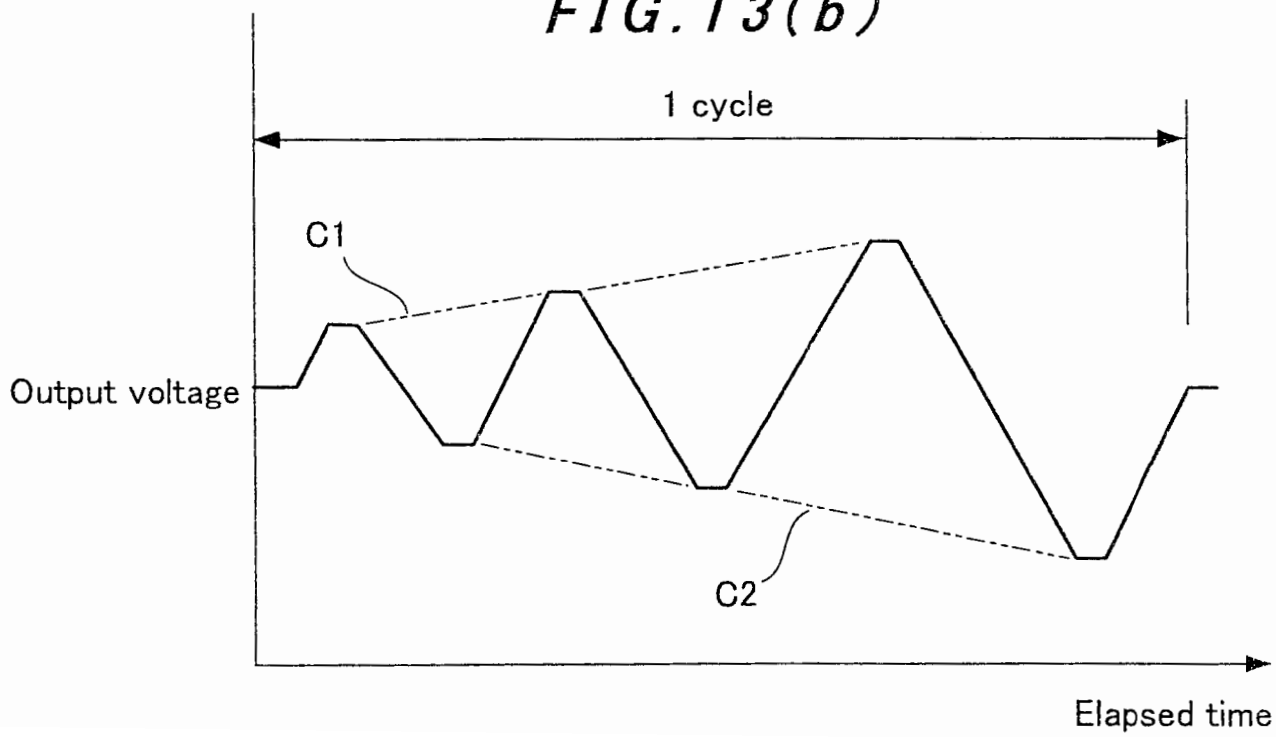


FIG. 14

1 ～ 5 sec.	: waveform W1, frequency 40 Hz
6 ～ 10 sec.	: waveform W1, frequency 50 Hz
11 ～ 15 sec.	: waveform W1, frequency 60 Hz
16 ～ 20 sec.	: waveform W1, frequency 70 Hz
21 ～ 25 sec.	: waveform W1, frequency 40 Hz
26 ～ 30 sec.	: waveform W1, frequency 50 Hz
31 ～ 35 sec.	: waveform W1, frequency 60 Hz
36 ～ 40 sec.	: waveform W1, frequency 70 Hz
41 ～ 45 sec.	: waveform W2, frequency 40 Hz
46 ～ 50 sec.	: waveform W2, frequency 50 Hz

FIG. 15

1 ～ 15 sec.	: waveform W1, frequency 50 Hz
16 ～ 30 sec.	: waveform W1, frequency 40 Hz
31 ～ 45 sec.	: waveform W1, frequency 70 Hz
46 ～ 60 sec.	: waveform W1, frequency 50 Hz

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FIG. 16

1 ～ 30 sec.	: waveform W1, frequency 40 Hz
31 ～ 60 sec.	: waveform W2, frequency 50 Hz
61 ～ 90 sec.	: waveform W3, frequency 60 Hz
91 ～ 120 sec.	: waveform W4, frequency 70 Hz
121 ～ 150 sec.	: waveform W1, frequency 50 Hz
151 ～ 180 sec.	: waveform W2, frequency 60 Hz
181 ～ 210 sec.	: waveform W3, frequency 70 Hz
211 ～ 240 sec.	: waveform W4, frequency 40 Hz

FIG. 17

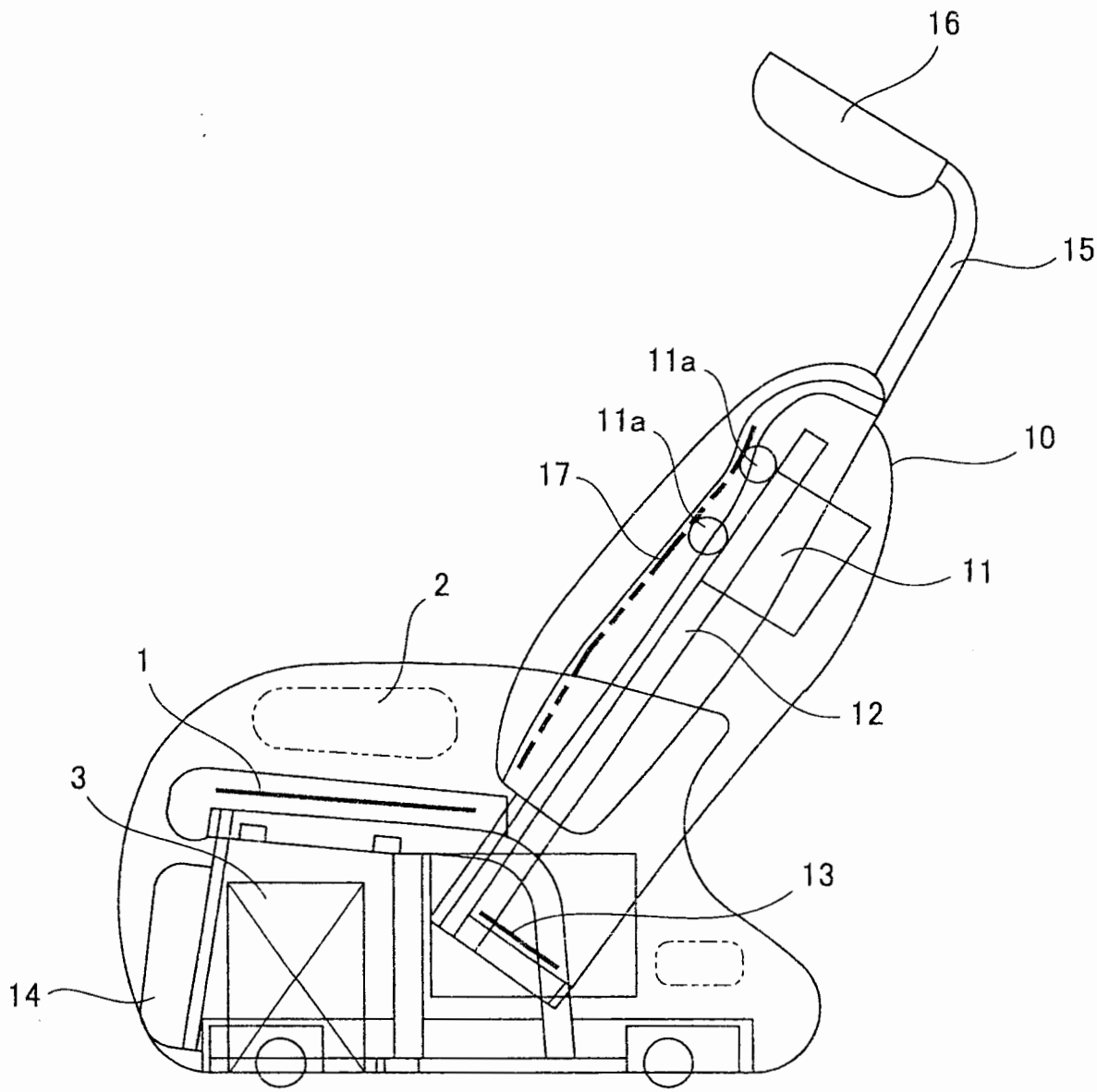


FIG. 18

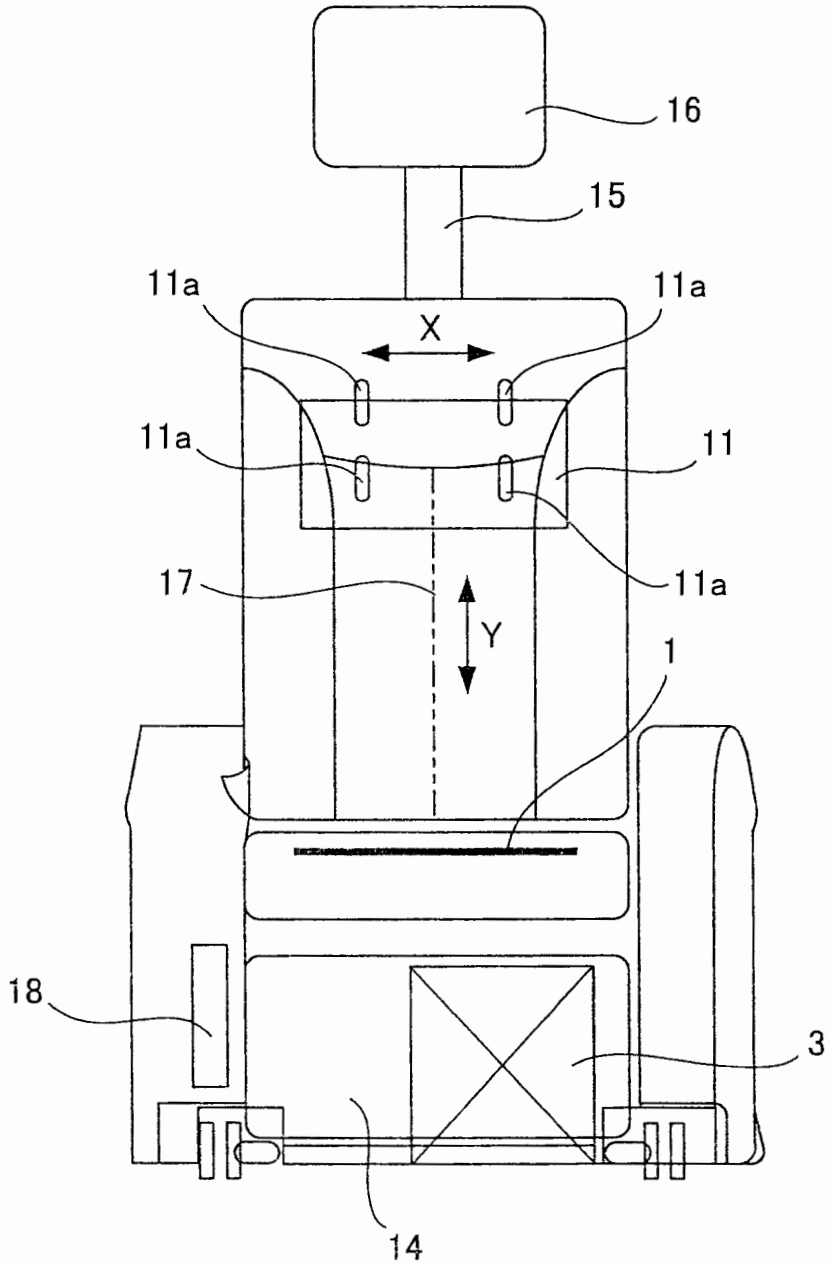


FIG. 19

