FIG.1

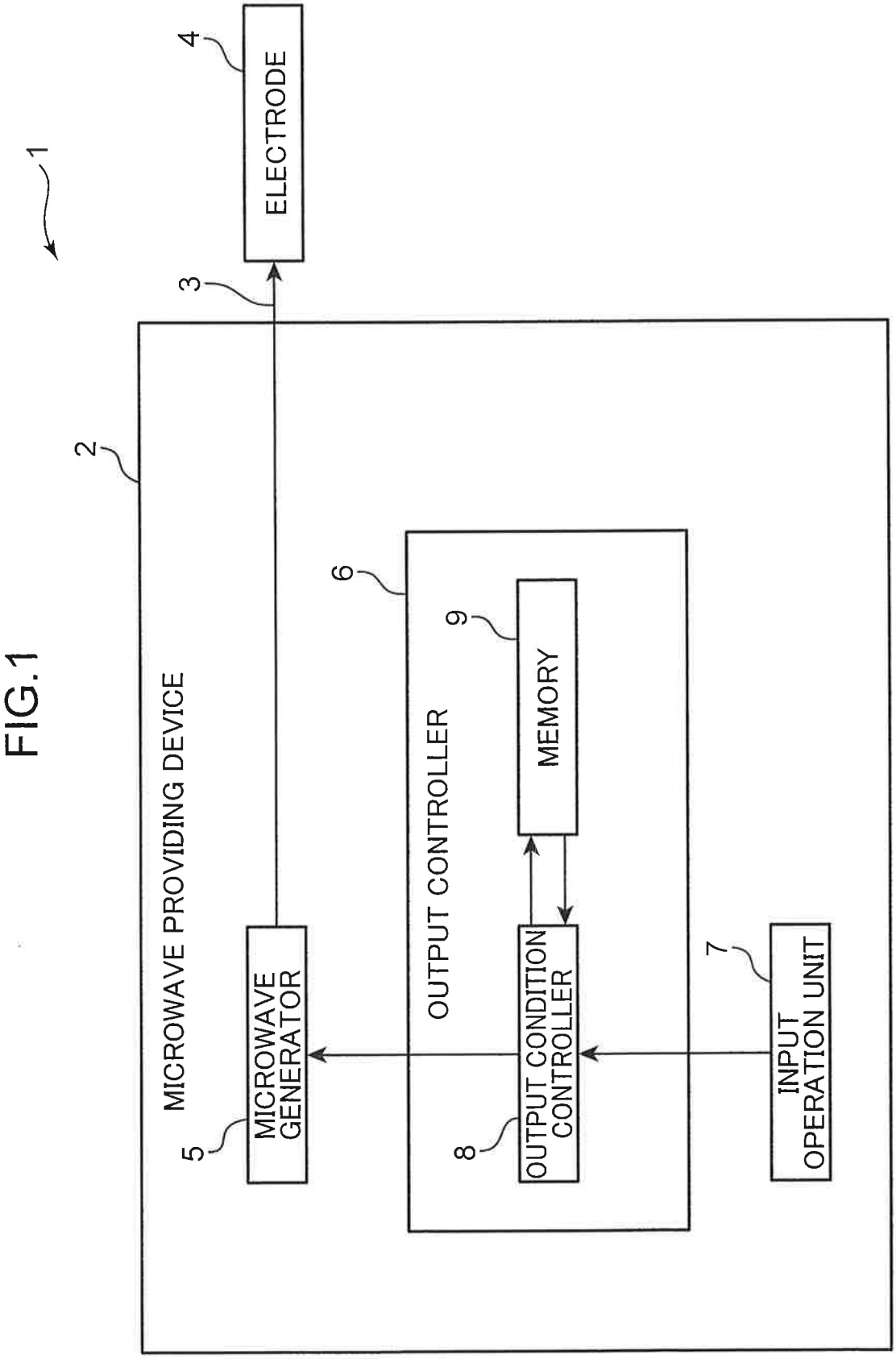

1
2
3
4
ELECTRODE
MICROWAVE PROVIDING DEVICE
5
MICROWAVE GENERATOR
6
OUTPUT CONTROLLER
8
OUTPUT CONDITION CONTROLLER
9
MEMORY
7
INPUT OPERATION UNIT

FIG.2

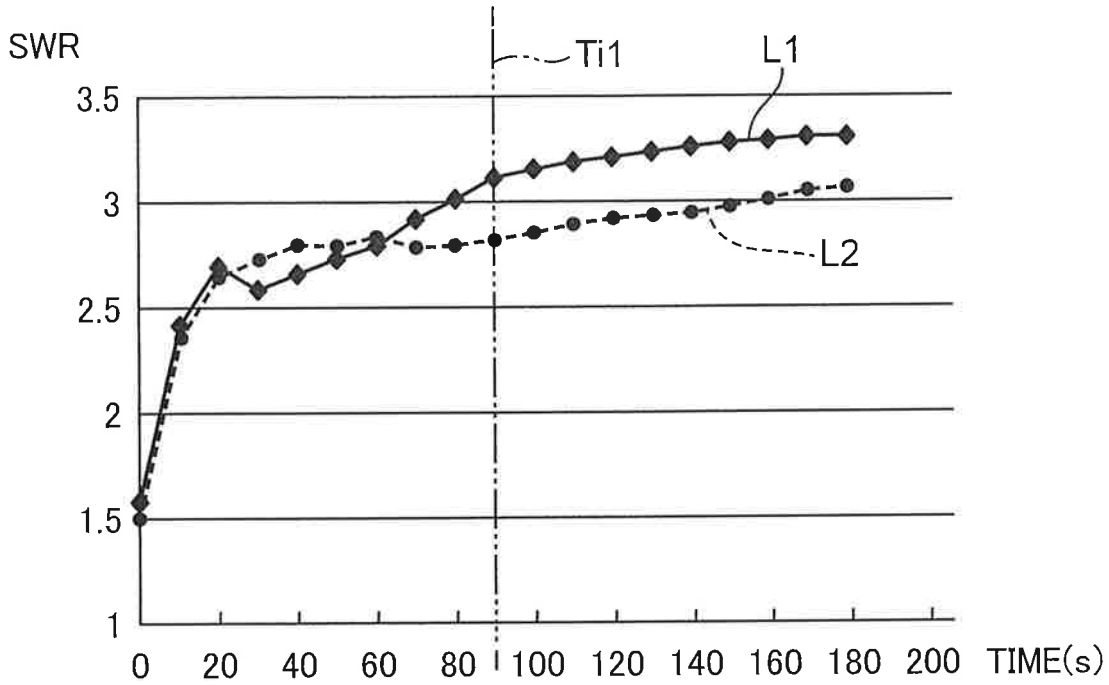

SWR
Ti1
L1
L2
3.5
3
2.5
2
1.5
1
0
20
40
60
80
100
120
140
160
180
200
TIME(s)

FIG.3

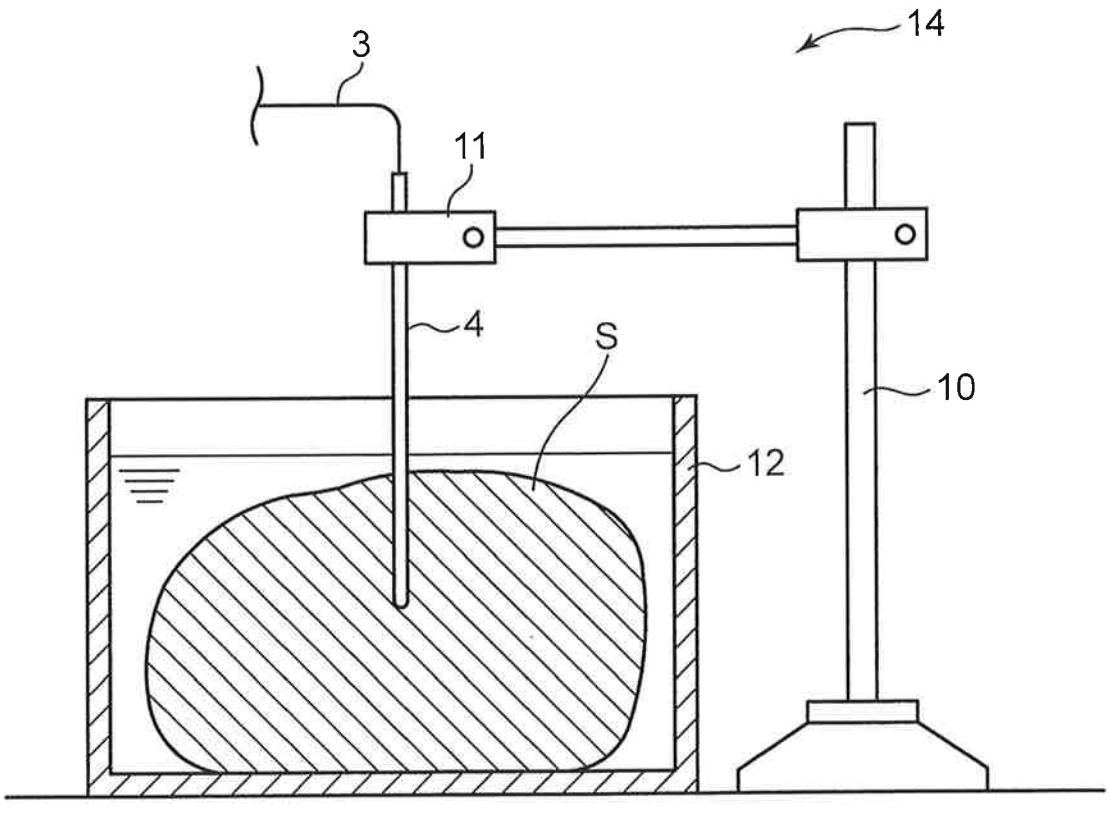

14
3
11
4
S
10
12

FIG.4

| SAMPLE NO. | RADIATION PERIOD(s) | PAUSE PERIOD(s) | NUMBER OF REPEATS | TOTAL RADIATION PERIOD(s) | TOTAL PAUSE PERIOD(s) | TOTAL PERIOD(s) | MEASURED COAGULATION VALUE(mm) W × D |
|---|---|---|---|---|---|---|---|
| EXAMPLE 1 | 10 | 5 | 9 | 90 | 40 | 130 | 21 × 45 |
| EXAMPLE 2 | 10 | 5 | 12 | 120 | 55 | 175 | 24 × 45 |
| EXAMPLE 3 | 10 | 5 | 21 | 210 | 100 | 310 | 32 × 50 |
| EXAMPLE 4 | 20 | 5 | 5 | 100 | 20 | 120 | 20 × 35 |
| EXAMPLE 5 | 20 | 5 | 8 | 160 | 35 | 195 | 23 × 45 |
| EXAMPLE 6 | 20 | 5 | 11 | 220 | 50 | 270 | 28 × 50 |
| EXAMPLE 7 | 10 | 10 | 12 | 120 | 110 | 230 | 23 × 45 |
| EXAMPLE 8 | 15 | 10 | 8 | 120 | 70 | 190 | 26 × 45 |
| EXAMPLE 9 | 20 | 10 | 6 | 120 | 50 | 170 | 26 × 50 |

FIG.5

| SAMPLE NO. | RADIATION PERIOD(s) | PAUSE PERIOD(s) | NUMBER OF REPEATS | TOTAL RADIATION PERIOD(s) | TOTAL PAUSE PERIOD(s) | TOTAL PERIOD(s) | MEASURED COAGULATION VALUE(mm) W × D |
|---|---|---|---|---|---|---|---|
| COMPARATIVE EXAMPLE 1 | 60 | 0 | 0 | 60 | 0 | 60 | 15 × 35 |
| COMPARATIVE EXAMPLE 2 | 10 | 5 | 6 | 60 | 25 | 85 | 15 × 20 |
| COMPARATIVE EXAMPLE 3 | 15 | 5 | 4 | 60 | 15 | 75 | 14 × 30 |
| EXAMPLE 10 | 10 | 5 | 10 | 100 | 45 | 145 | 22 × 40 |
| EXAMPLE 11 | 15 | 10 | 10 | 150 | 90 | 240 | 21 × 40 |
| EXAMPLE 12 | 10 | 5 | 15 | 150 | 70 | 220 | 20 × 40 |
| EXAMPLE 13 | 15 | 10 | 15 | 225 | 140 | 365 | 28 × 50 |
| EXAMPLE 14 | 10 | 5 | 20 | 200 | 95 | 295 | 28 × 45 |
| EXAMPLE 15 | 15 | 10 | 20 | 300 | 190 | 490 | 25 × 45 |
| EXAMPLE 16 | 10 | 5 | 25 | 250 | 120 | 370 | 33 × 55 |
| EXAMPLE 17 | 15 | 10 | 25 | 375 | 240 | 615 | 31 × 60 |
| EXAMPLE 18 | 10 | 5 | 30 | 300 | 145 | 445 | 31 × 55 |
| EXAMPLE 19 | 10 | 5 | 35 | 350 | 170 | 520 | 35 × 50 |

FIG.6

| MEASURED COAGULATION VALUE(mm) W × D | 35 × 50 | 33 × 55 | 31 × 60 | 31 × 55 | 28 × 50 | 28 × 45 | 25 × 45 | 22 × 40 | 21 × 40 | 20 × 40 | 15 × 35 | 15 × 20 | 14 × 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLE NO. | EXAMPLE 19 | EXAMPLE 16 | EXAMPLE 17 | EXAMPLE 18 | EXAMPLE 13 | EXAMPLE 14 | EXAMPLE 15 | EXAMPLE 10 | EXAMPLE 11 | EXAMPLE 12 | COMPARATIVE EXAMPLE 1 | COMPARATIVE EXAMPLE 2 | COMPARATIVE EXAMPLE 3 |
| RADIATION PERIOD(s) | 10 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 60 | 10 | 15 |
| TOTAL RADIATION PERIOD(s) | 350 | 250 | 375 | 300 | 225 | 200 | 300 | 100 | 150 | 150 | 60 | 60 | 60 |
| PAUSE PERIOD(s) | 5 | 5 | 10 | 5 | 10 | 5 | 10 | 5 | 10 | 5 | 0 | 5 | 5 |
| TOTAL PAUSE PERIOD(s) | 170 | 120 | 240 | 145 | 140 | 95 | 190 | 45 | 90 | 70 | 0 | 25 | 15 |
| TOTAL PERIOD(s) | 520 | 370 | 615 | 445 | 365 | 295 | 490 | 145 | 240 | 220 | 60 | 85 | 75 |
| NUMBER OF REPEATS | 35 | 25 | 25 | 30 | 15 | 20 | 20 | 10 | 10 | 15 | 0 | 6 | 4 |

FIG.7

| SAMPLE NO. | RADIATION PERIOD(s) | PAUSE PERIOD(s) | NUMBER OF REPEATS | TOTAL RADIATION PERIOD(s) | TOTAL PAUSE PERIOD(s) | TOTAL PERIOD(s) | MEASURED COAGULATION VALUE(mm) W × D |
|---|---|---|---|---|---|---|---|
| EXAMPLE 20 | 10 | 5 | 30 | 300 | 145 | 445 | 30 × 60 |
| EXAMPLE 21 | 10 | 10 | 30 | 300 | 290 | 590 | 28 × 55 |
| EXAMPLE 22 | 10 | 15 | 30 | 300 | 435 | 735 | 26 × 47 |
| EXAMPLE 23 | 90<br>10 | 5 | 90 × 1<br>10 × 21 | 300 | 105 | 405 | 30 × 52 |

FIG.8

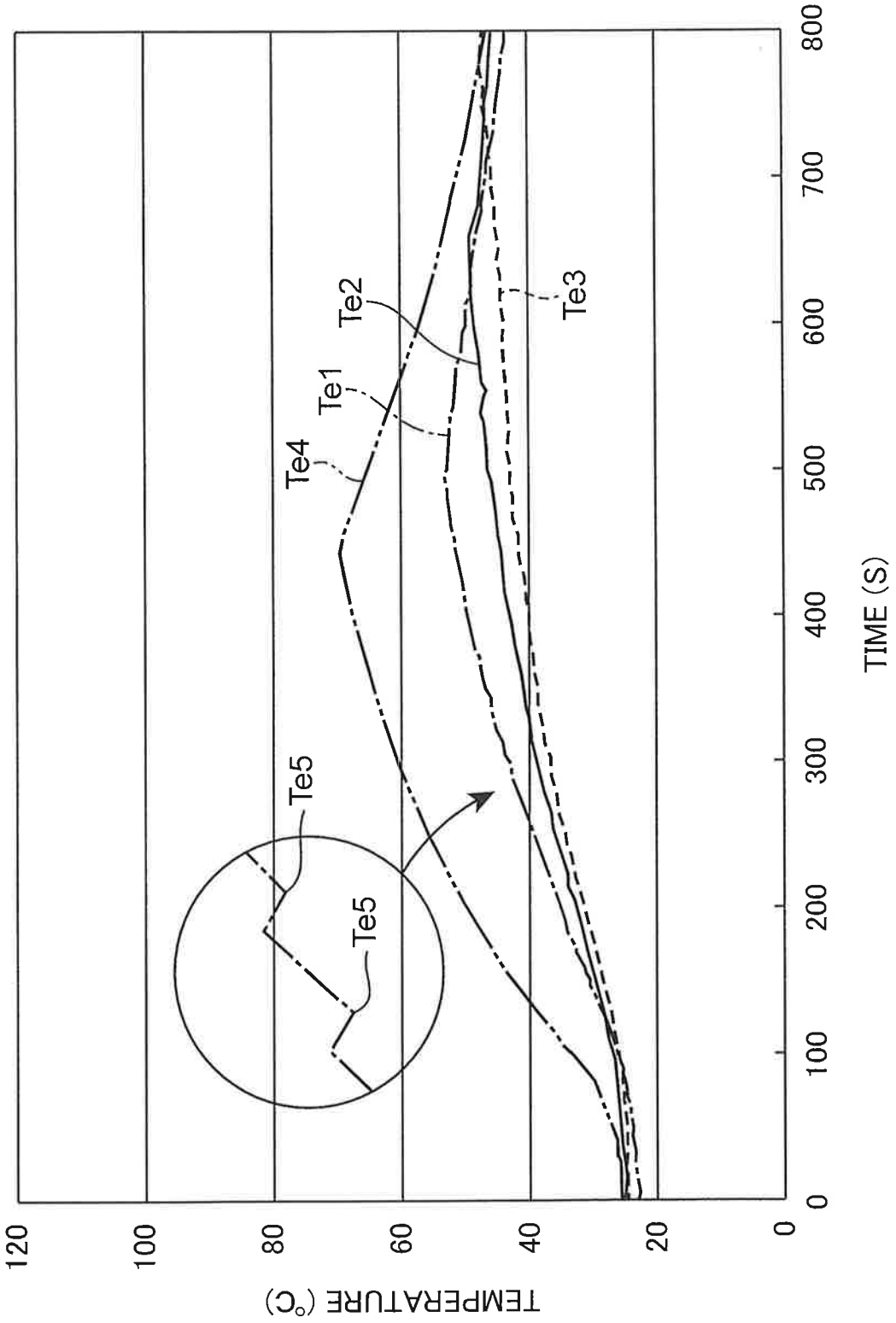

TEMPERATURE (°C)
120
100
80
60
40
20
0
0
100
200
300
400
500
600
700
800
TIME (S)
Te1
Te2
Te3
Te4
Te5
Te5

FIG.9

