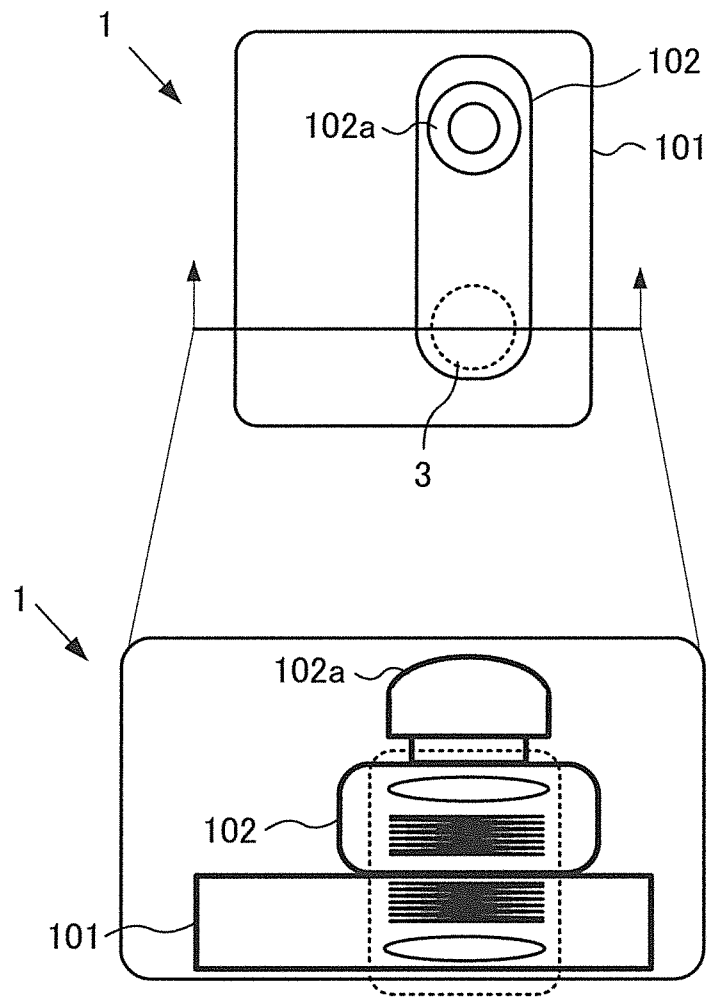


FIG.1



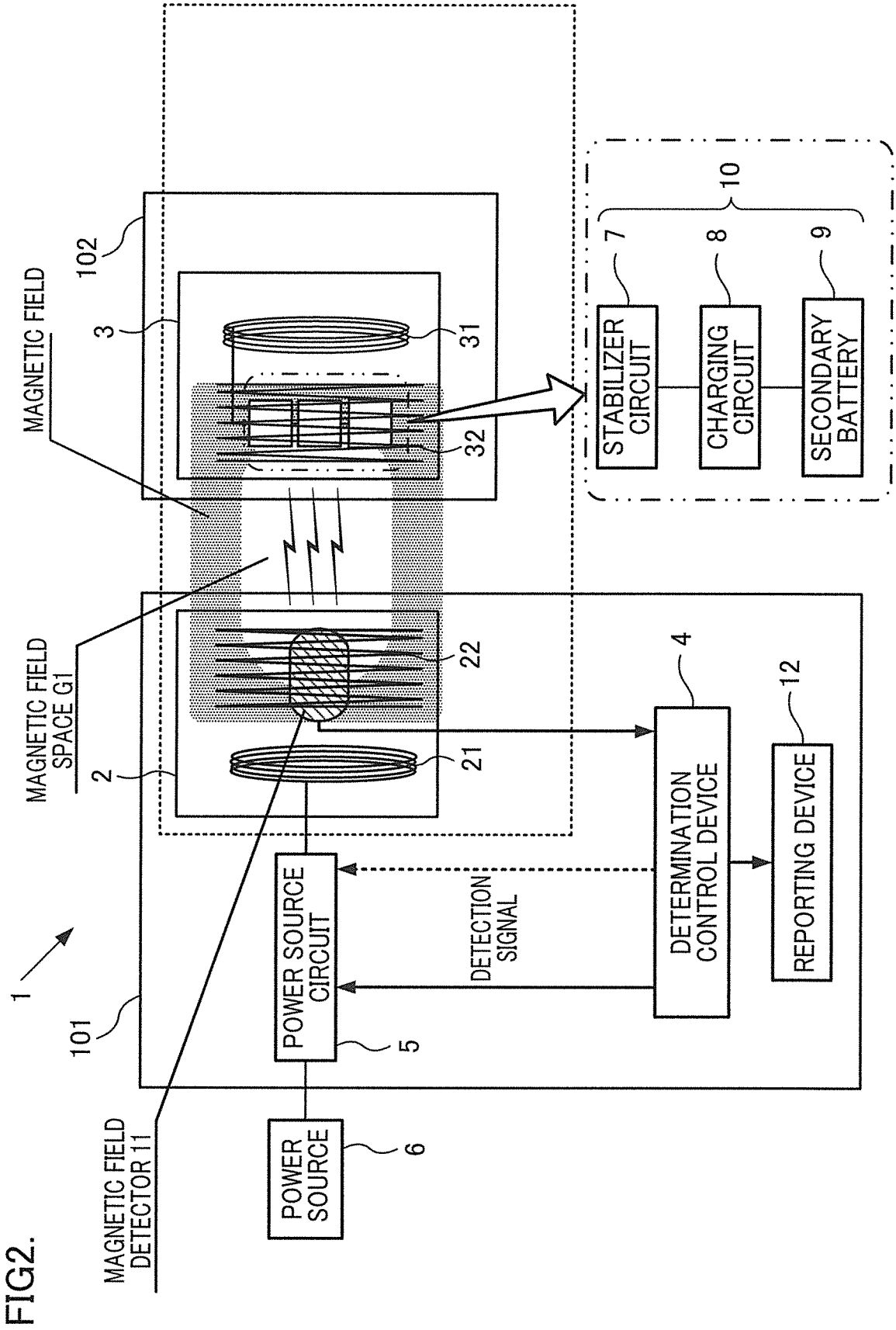


FIG.3

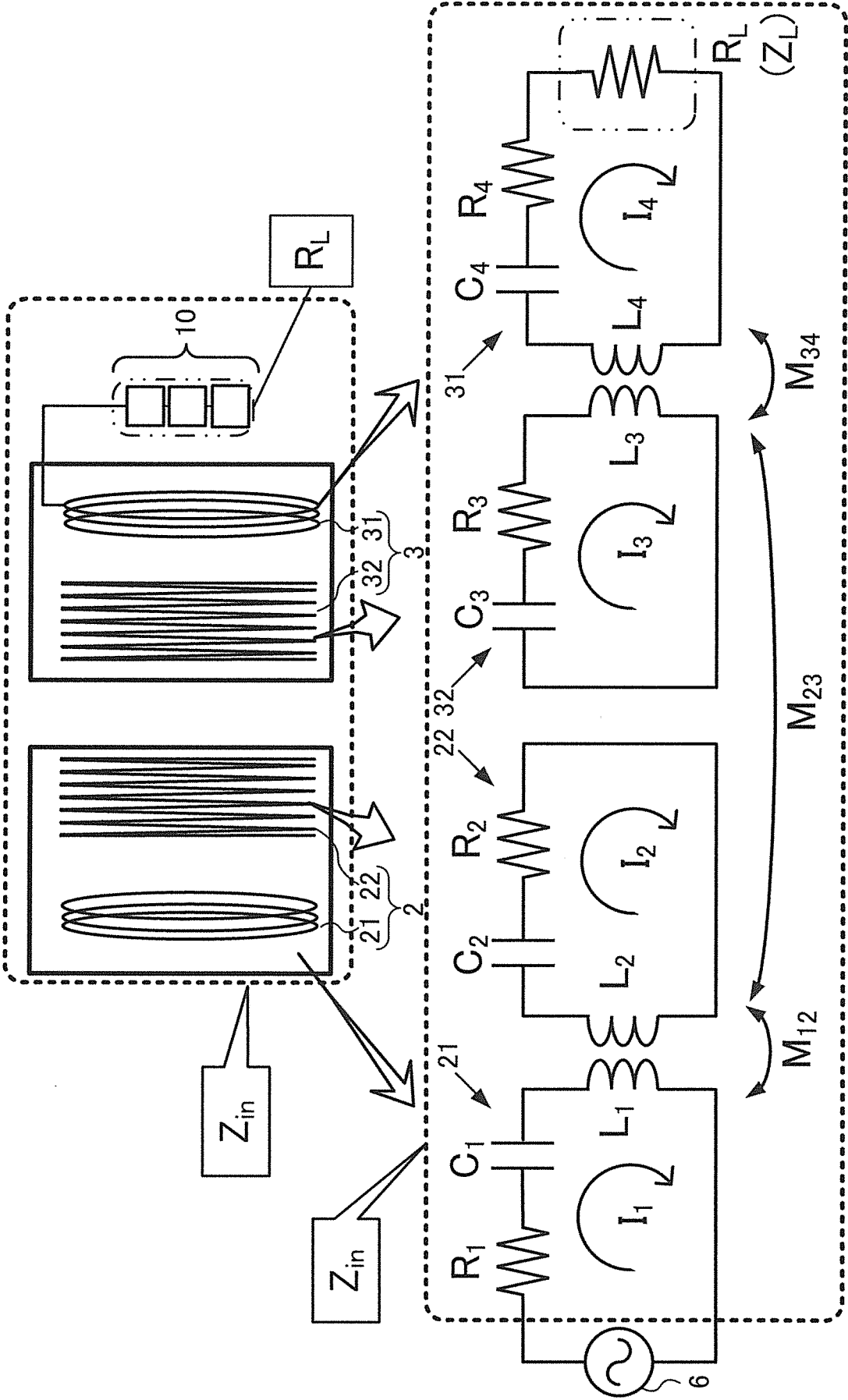


FIG.4

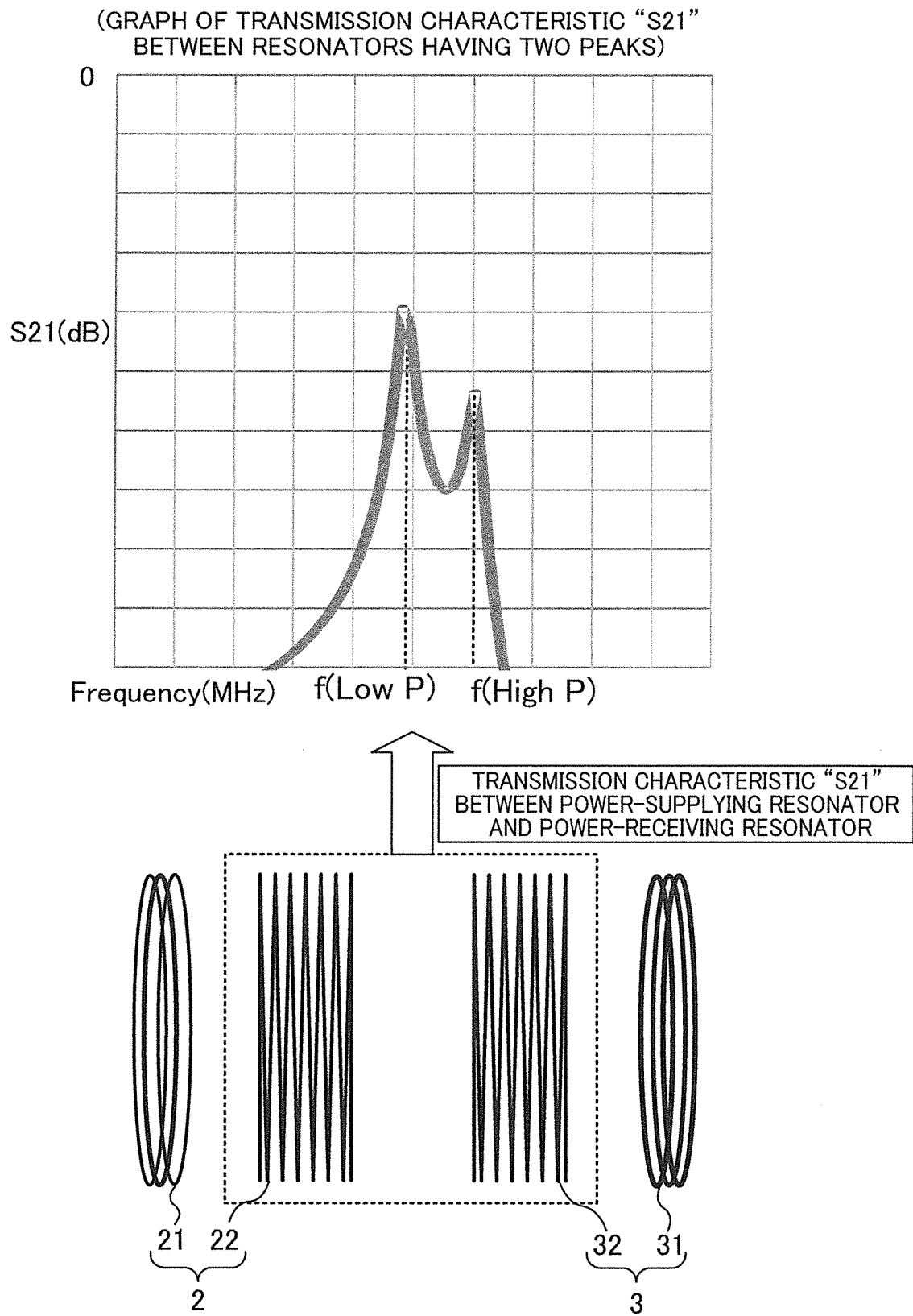


FIG.5

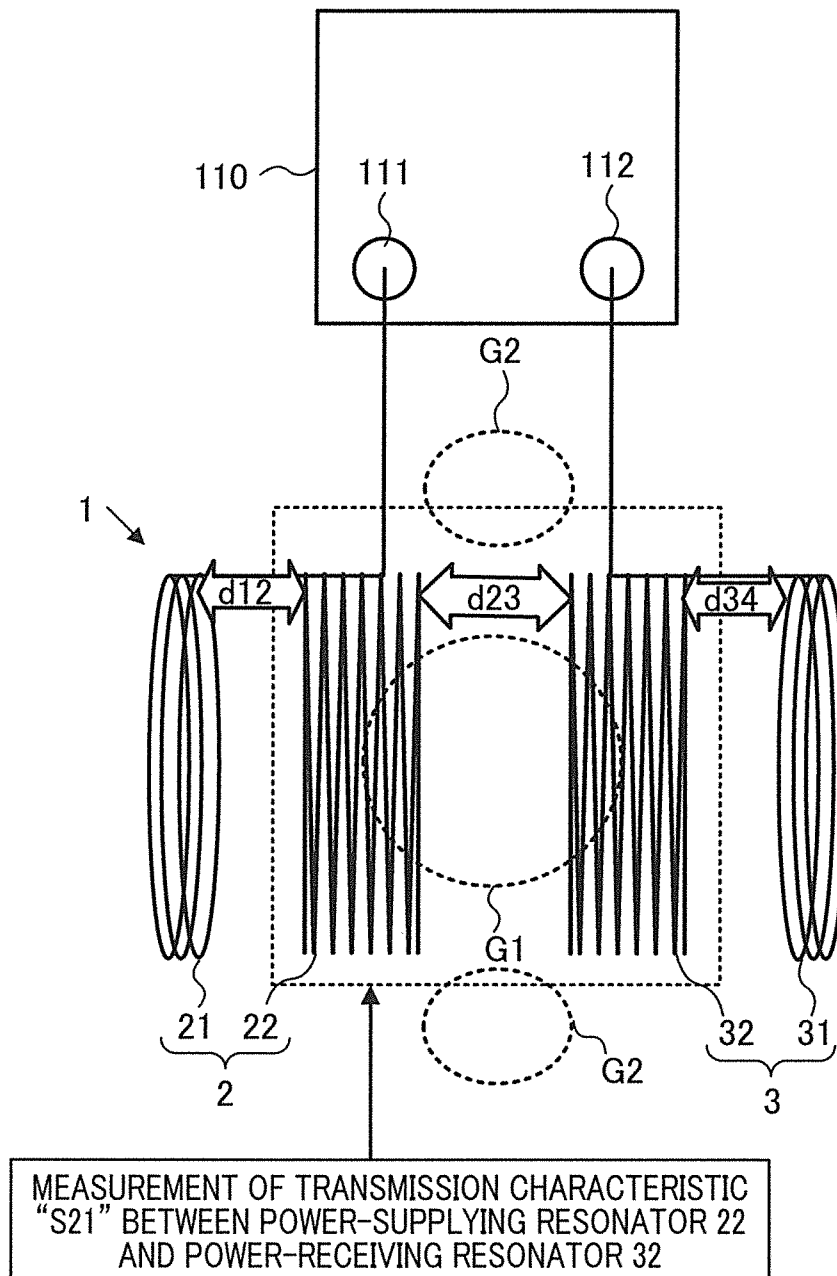


FIG. 6

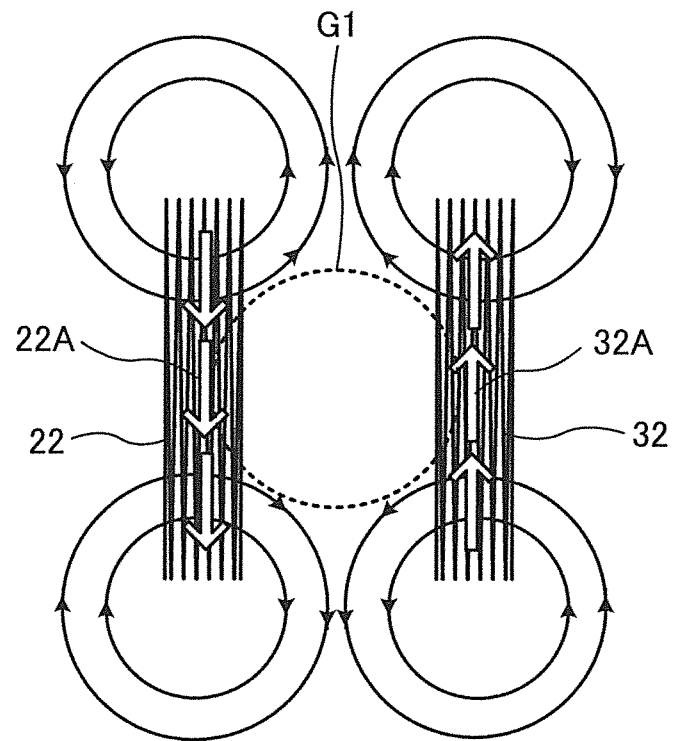


FIG. 7

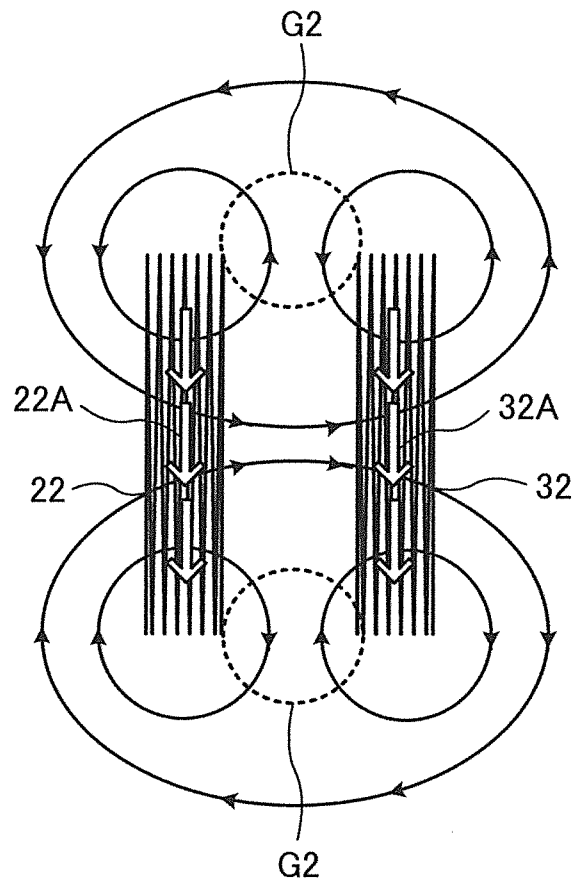


FIG. 8

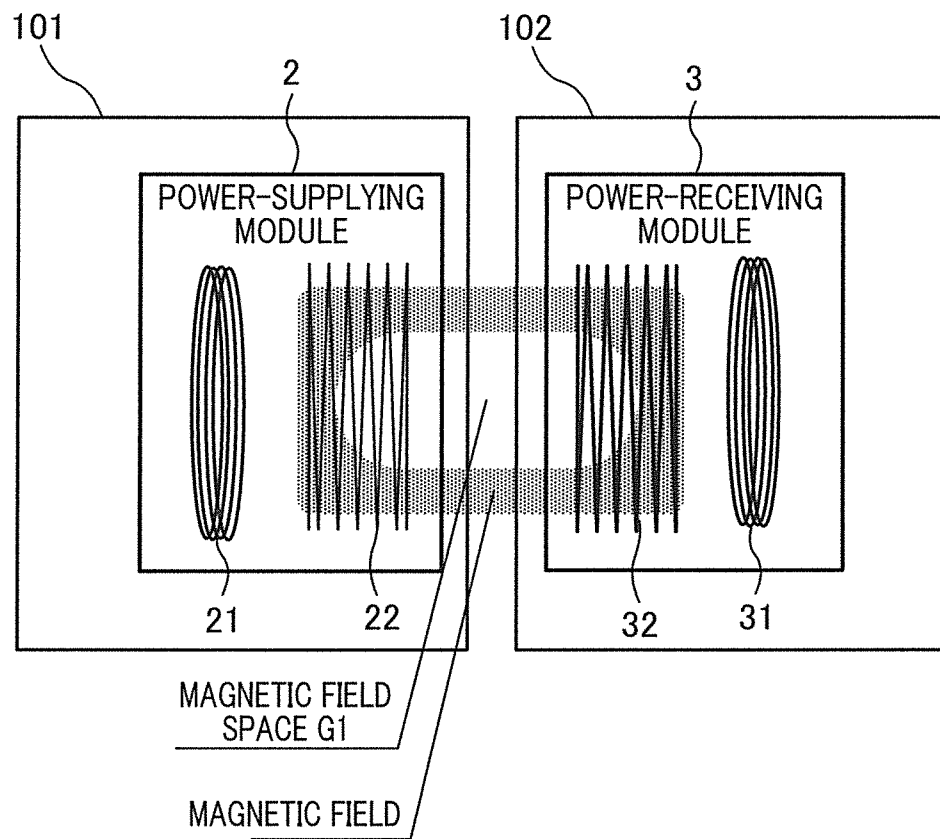


FIG.9

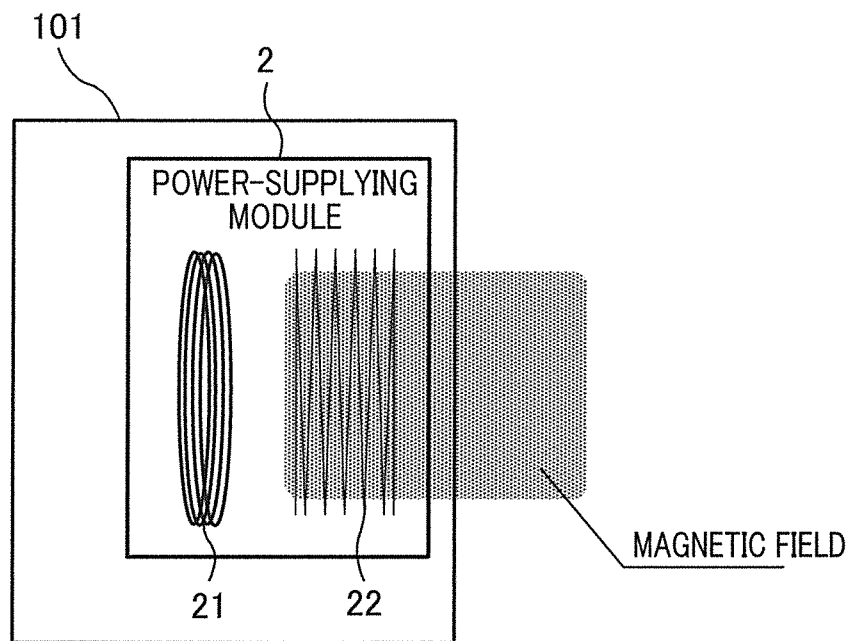
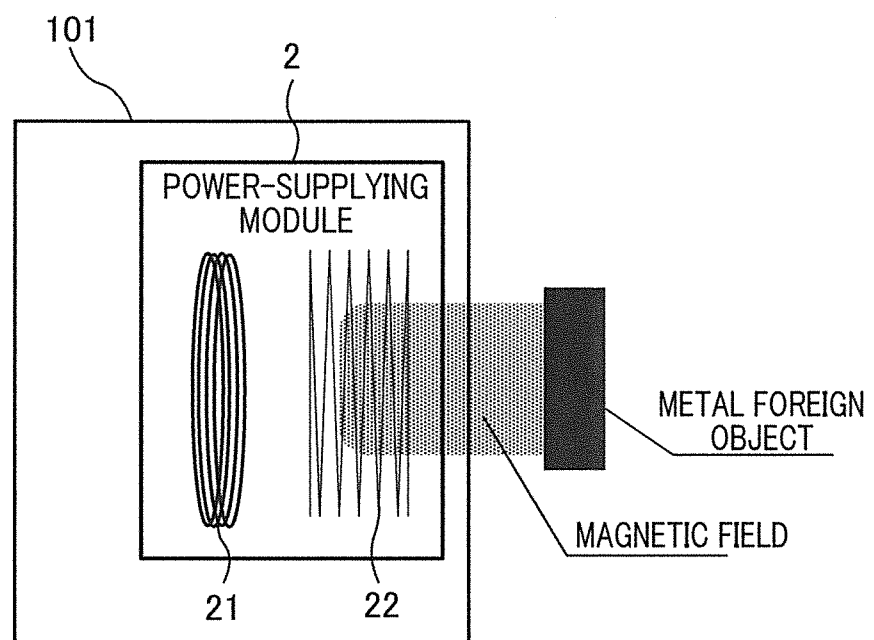


FIG.10



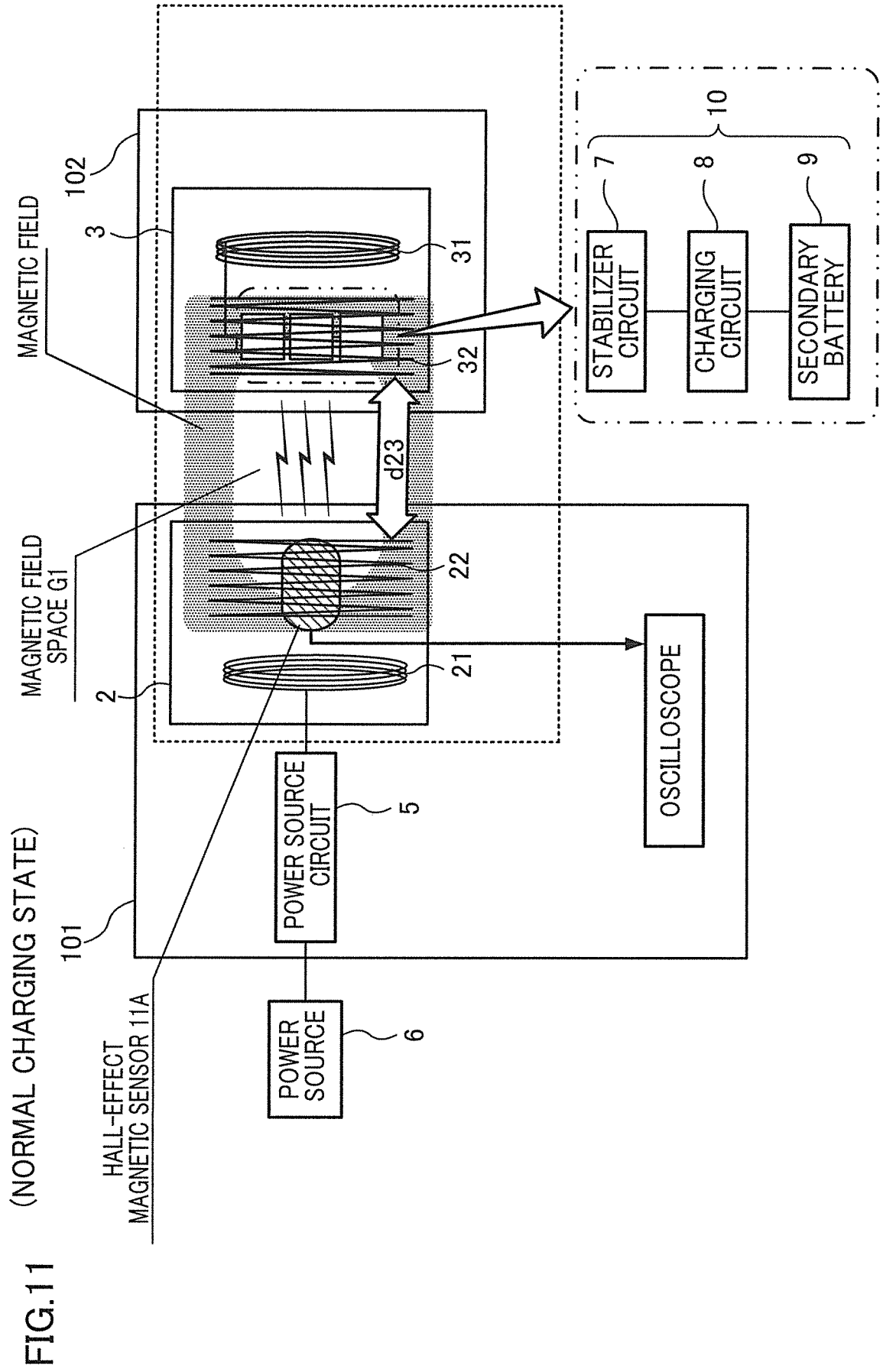


FIG.12

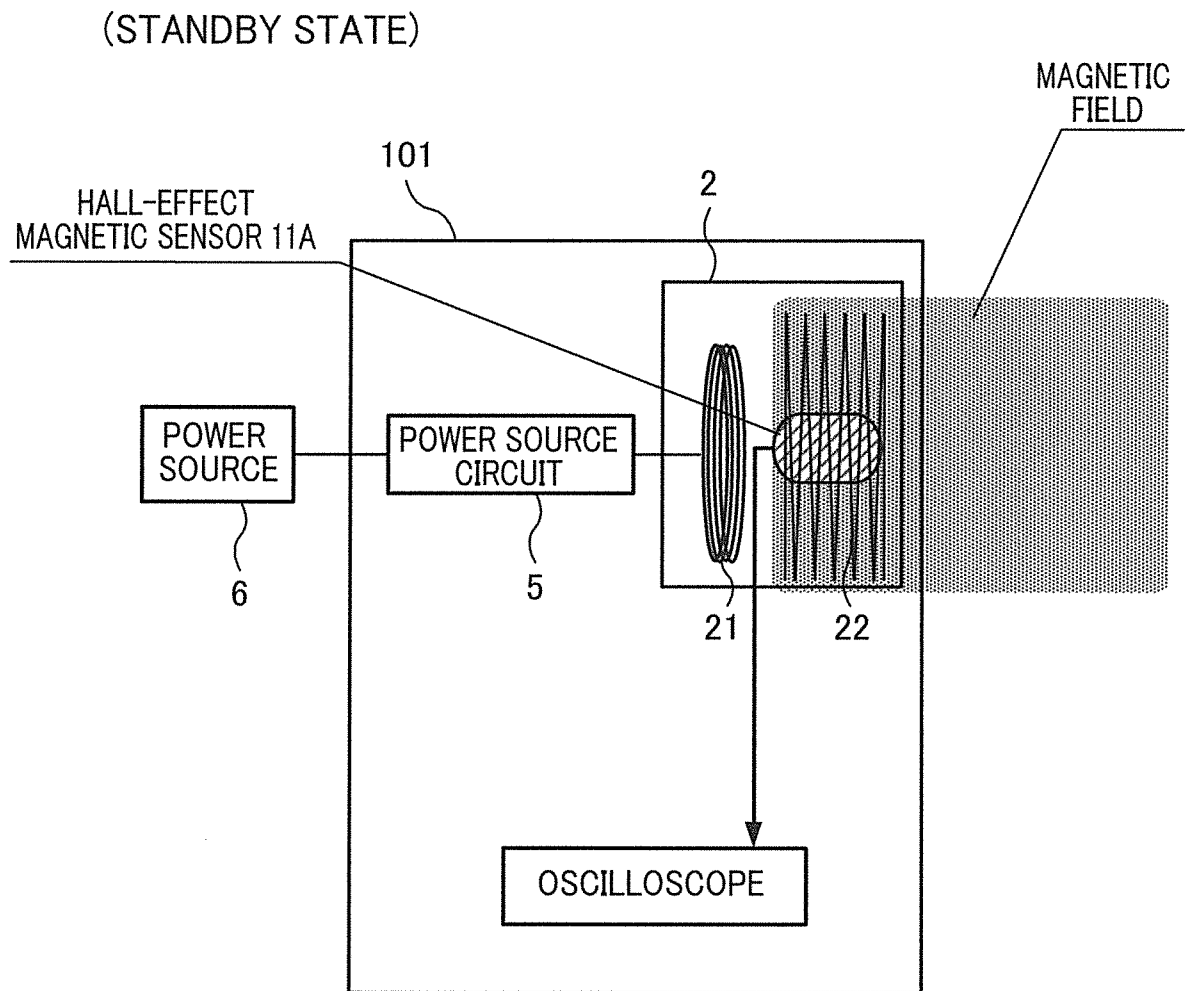


FIG.13

(ABNORMAL STATE)

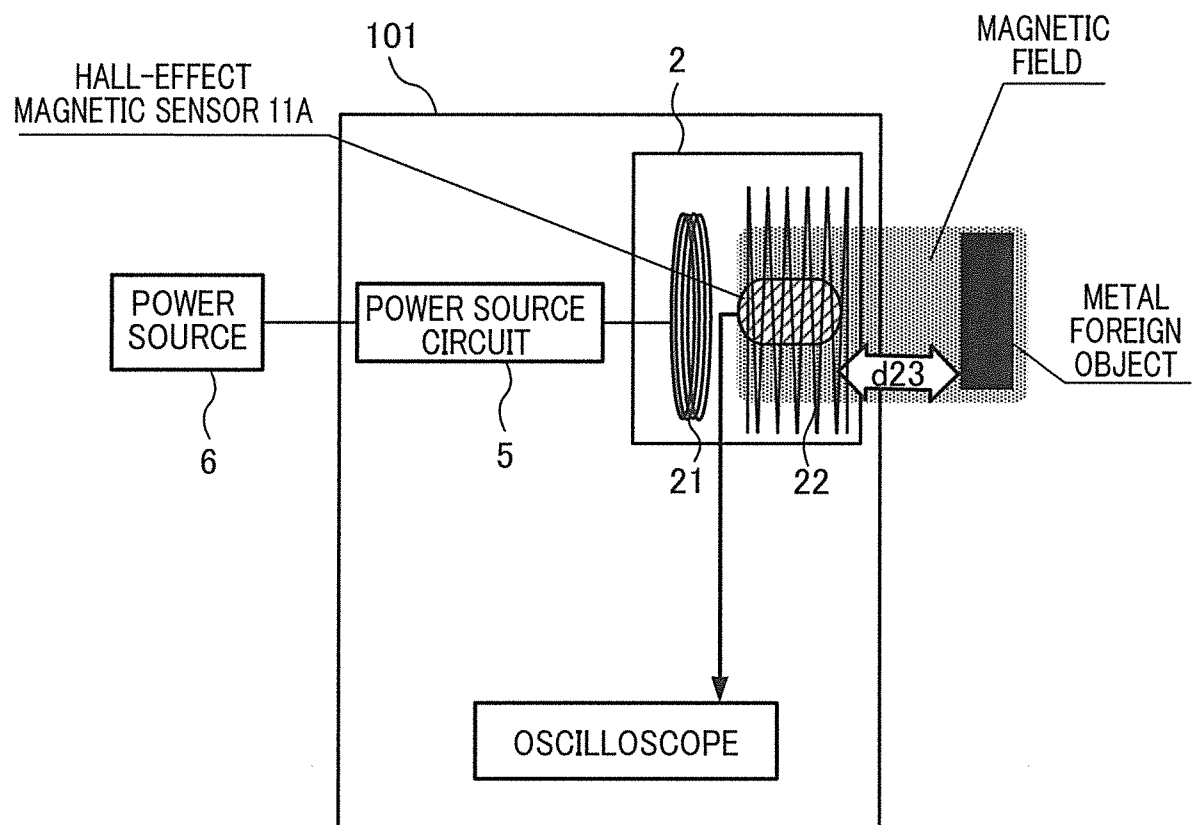


FIG.14

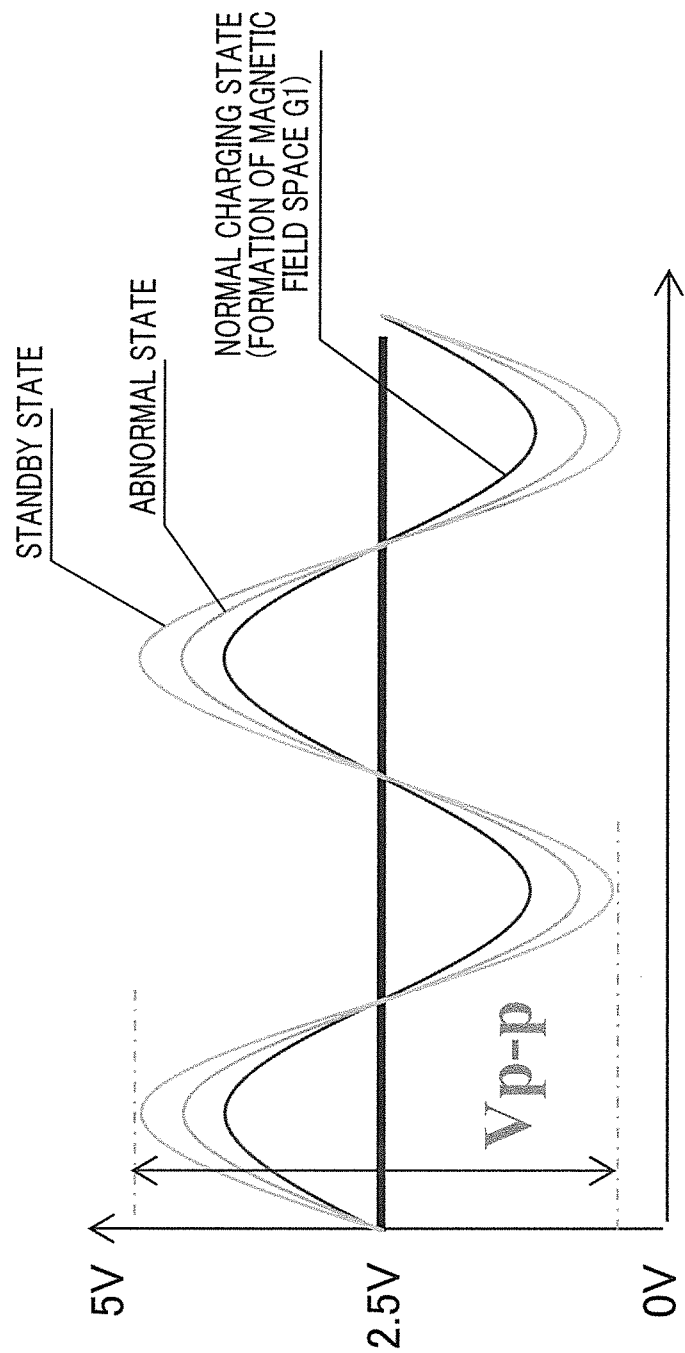


FIG.15

(MEASUREMENT EXPERIMENT 1)

HALL-EFFECT MAGNETIC SENSOR	STANDBY STATE	d23	ABNORMAL STATE				NORMAL CHARGING STATE
			COPPER (5 mm PIECE)	ALUMINUM (5 mm PIECE)	COPPER (10mm PIECE)	ALUMINUM (10mm PIECE)	
DETECTION VOLTAGE p-p[mV]	94.6	3mm	92.7	92.1	89.0	89.2	83.5
DETECTION VOLTAGE p-p[mV]	94.6	2mm	92.3	92.5	86.1	86.5	81.3

FIG.16

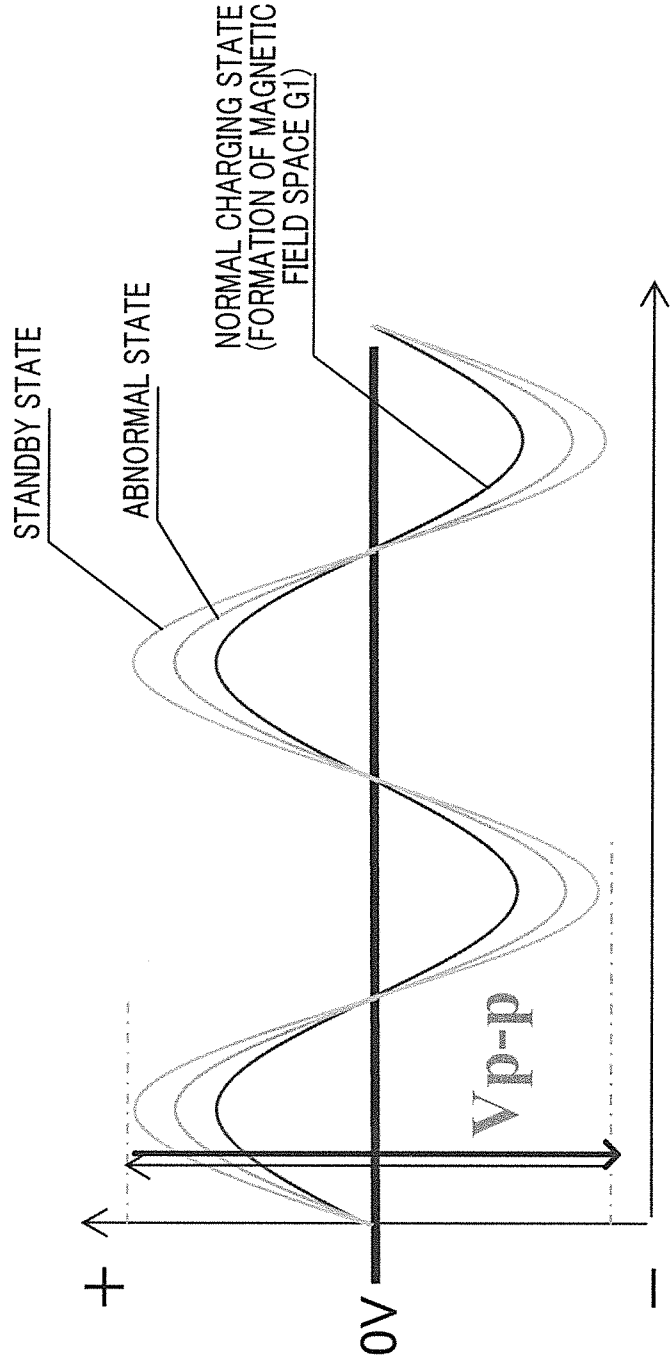


FIG.17

(MEASUREMENT EXPERIMENT 2)

MAGNETISM DETECTING COIL $\phi 5\text{mm}$	STANDBY STATE	$\phi 23$	ABNORMAL STATE				NORMAL CHARGING STATE
			COPPER (5 mm PIECE)	ALUMINUM (5 mm PIECE)	COPPER (10mm PIECE)	ALUMINUM (10mm PIECE)	
DETECTION VOLTAGE p-p[mV]	2.74	3mm	2.62	2.62	2.36	2.36	1.86
DETECTION VOLTAGE p-p[mV]	2.74	2mm	2.52	2.52	2.04	2.06	1.72

FIG.18

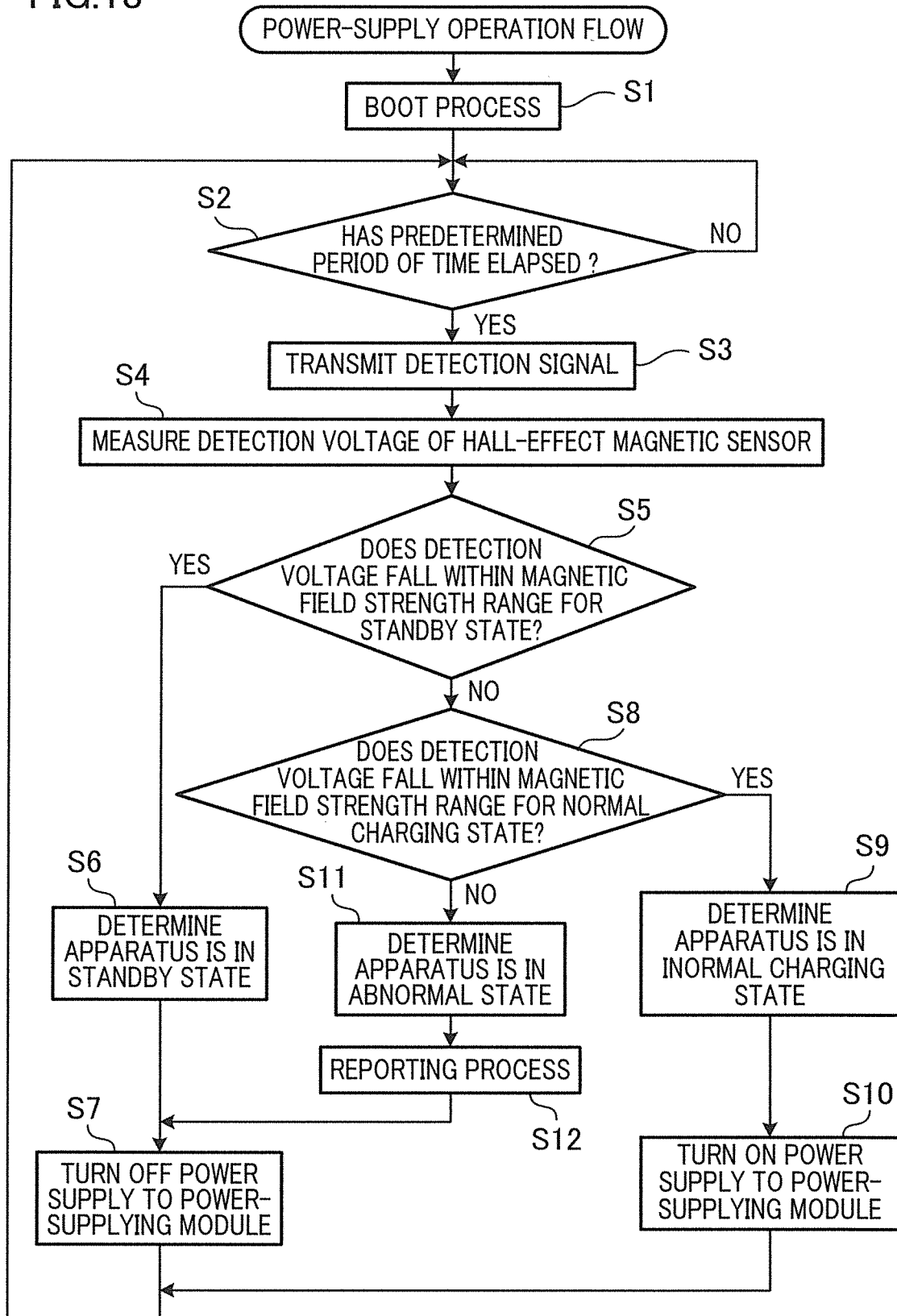


FIG.19

(STANDBY STATE)

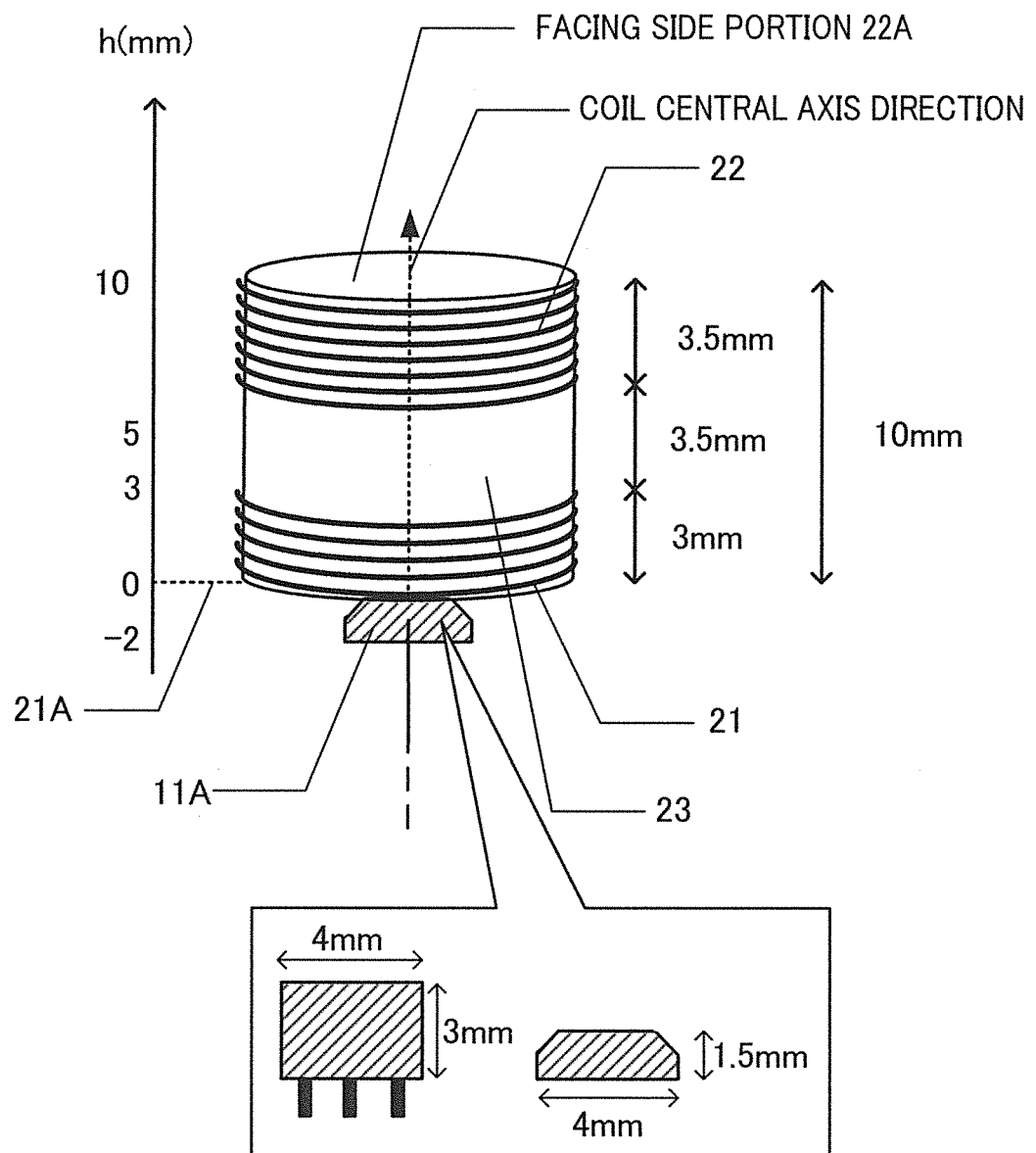


FIG.20

(NORMAL CHARGING STATE)

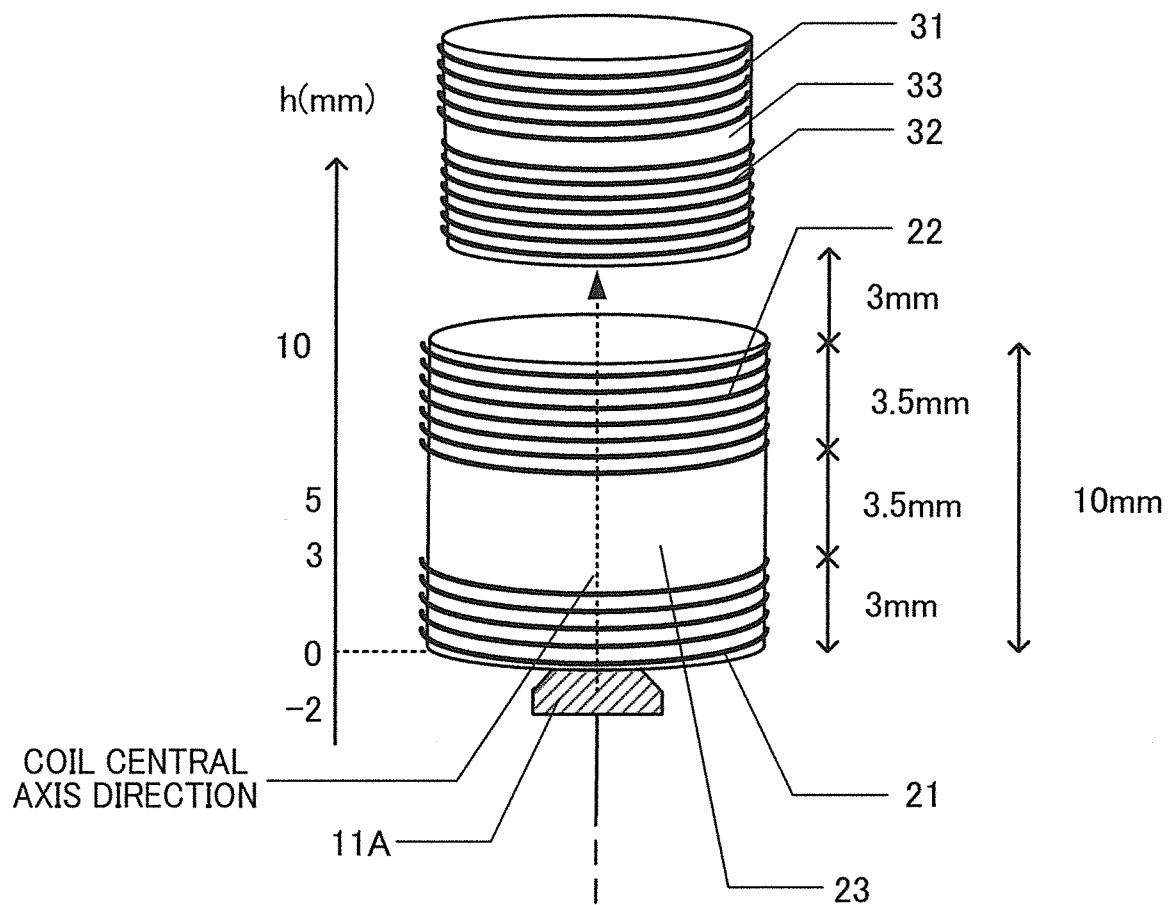


FIG.21

(ABNORMAL STATE)

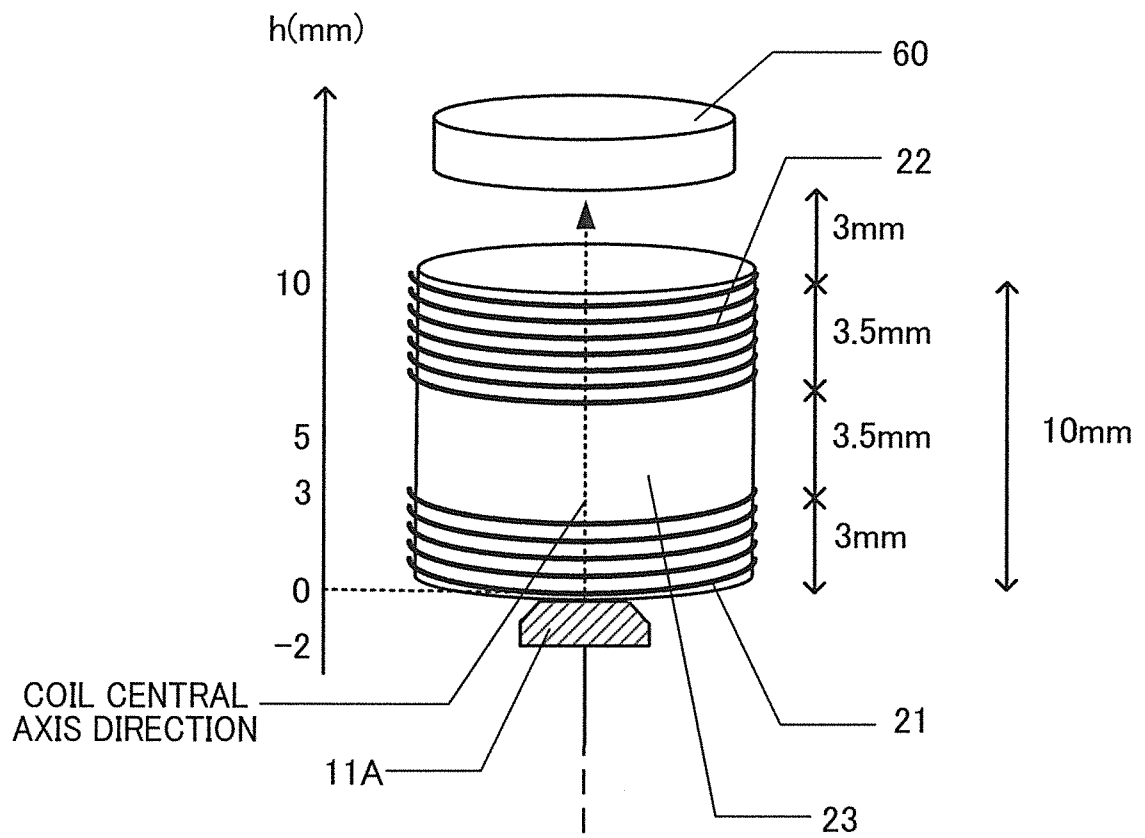


FIG.22

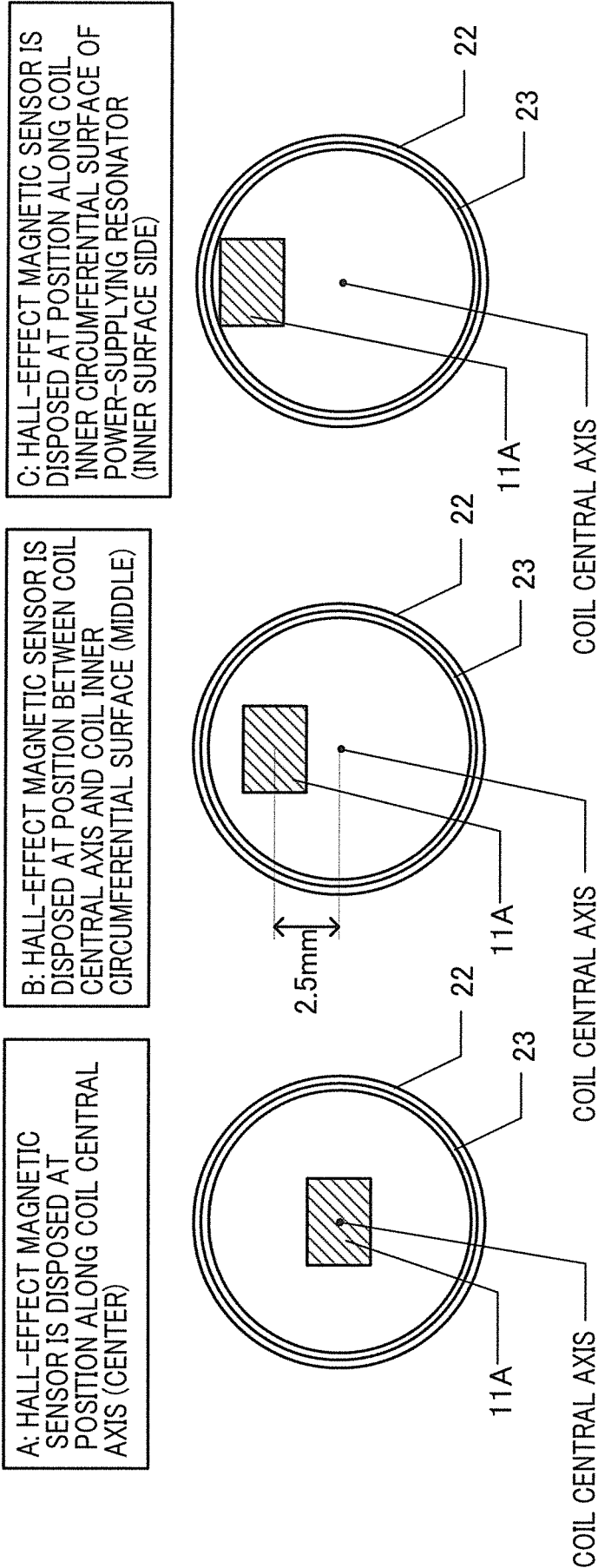


FIG.23

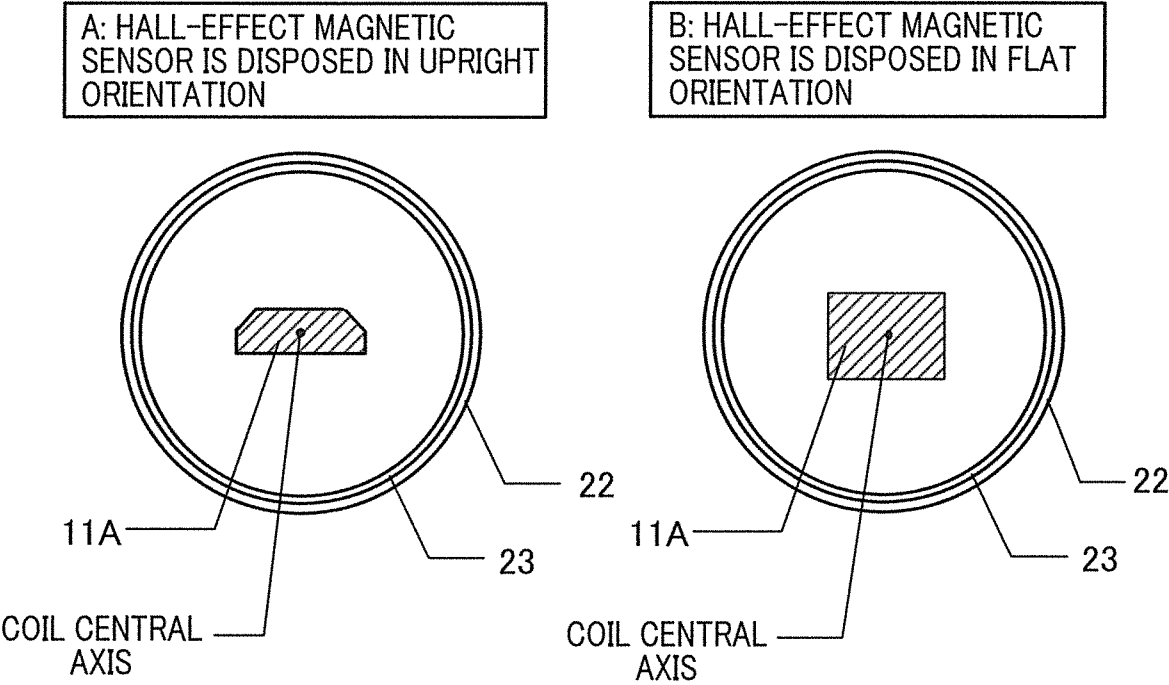
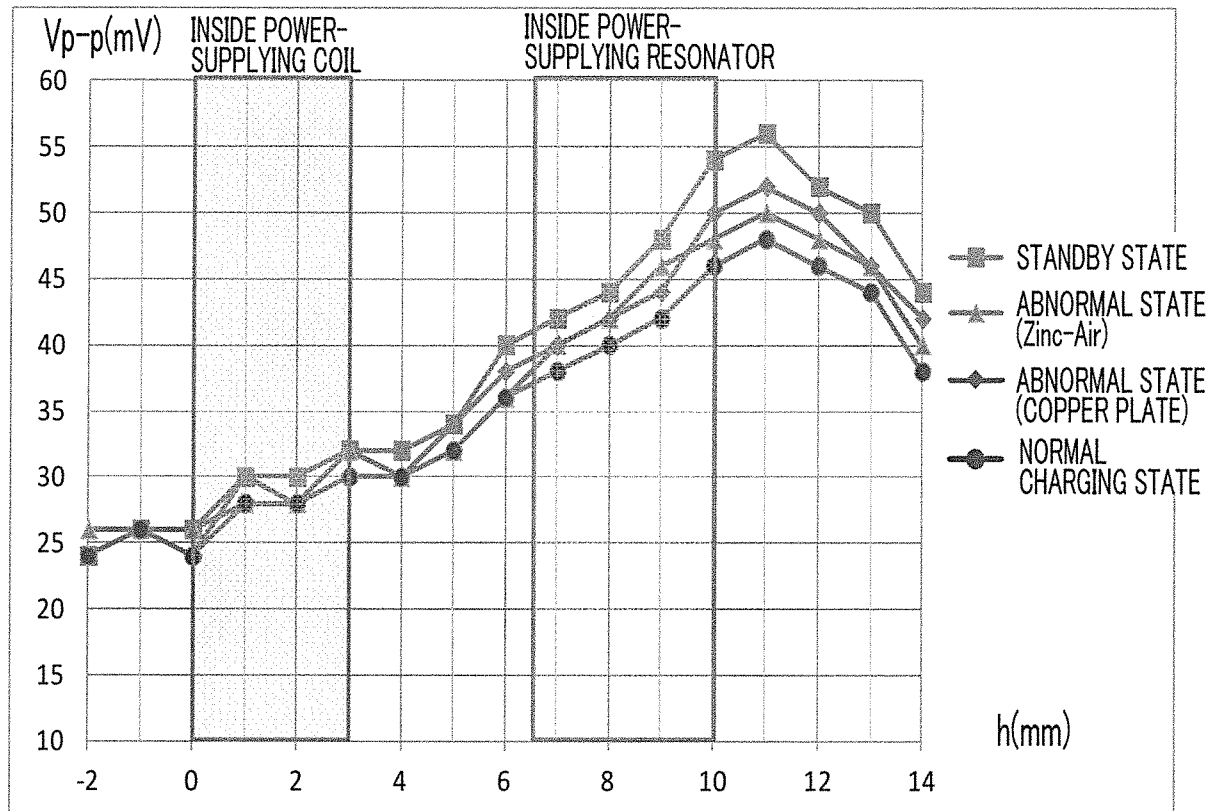


FIG.24

A: HALL-EFFECT MAGNETIC SENSOR IS MOVED ALONG COIL CENTRAL AXIS



C: HALL-EFFECT MAGNETIC SENSOR IS MOVED ALONG COIL INNER CIRCUMFERENTIAL SURFACE OF POWER-SUPPLYING RESONATOR

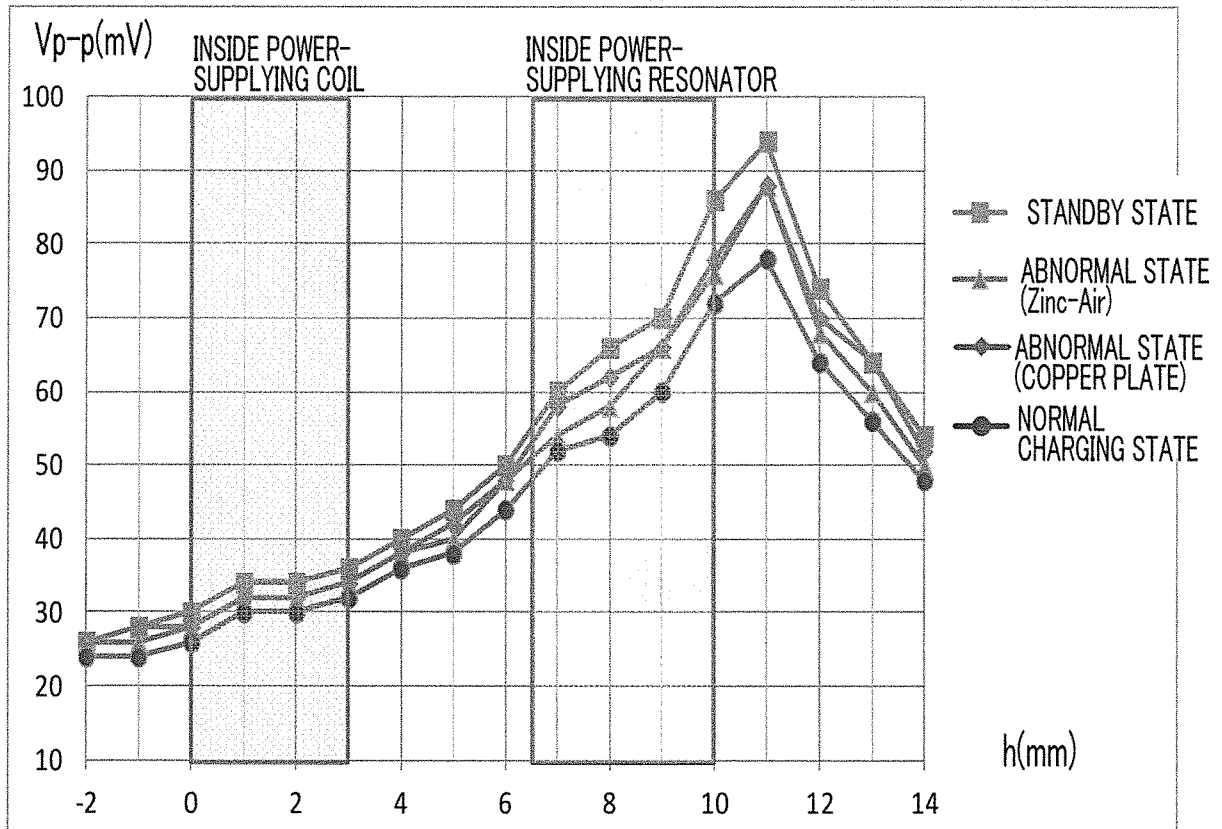
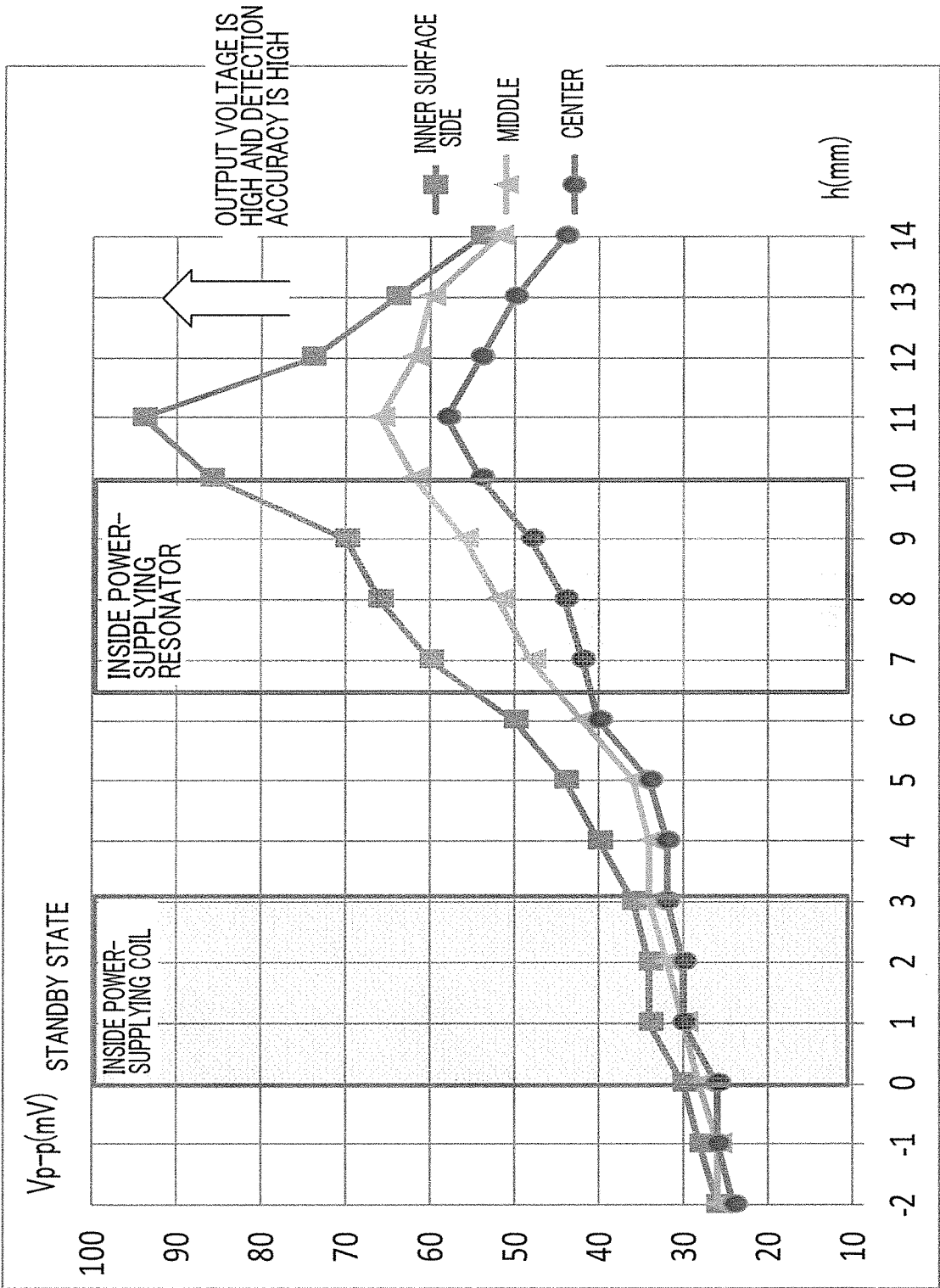


FIG.25



h	CENTER	MIDDLE	INNER SURFACE SIDE
14	44	52	54
13	50	60	64
12	54	62	74
11	58	66	94
10	54	62	86
9	54	56	70
8	44	52	66
7	42	48	60
6	40	42	50
5	34	36	44
4	32	34	40
3	32	34	36
2	30	32	34
1	30	30	34
0	26	28	30
-1	26	26	28
-2	24	26	26

FIG.26

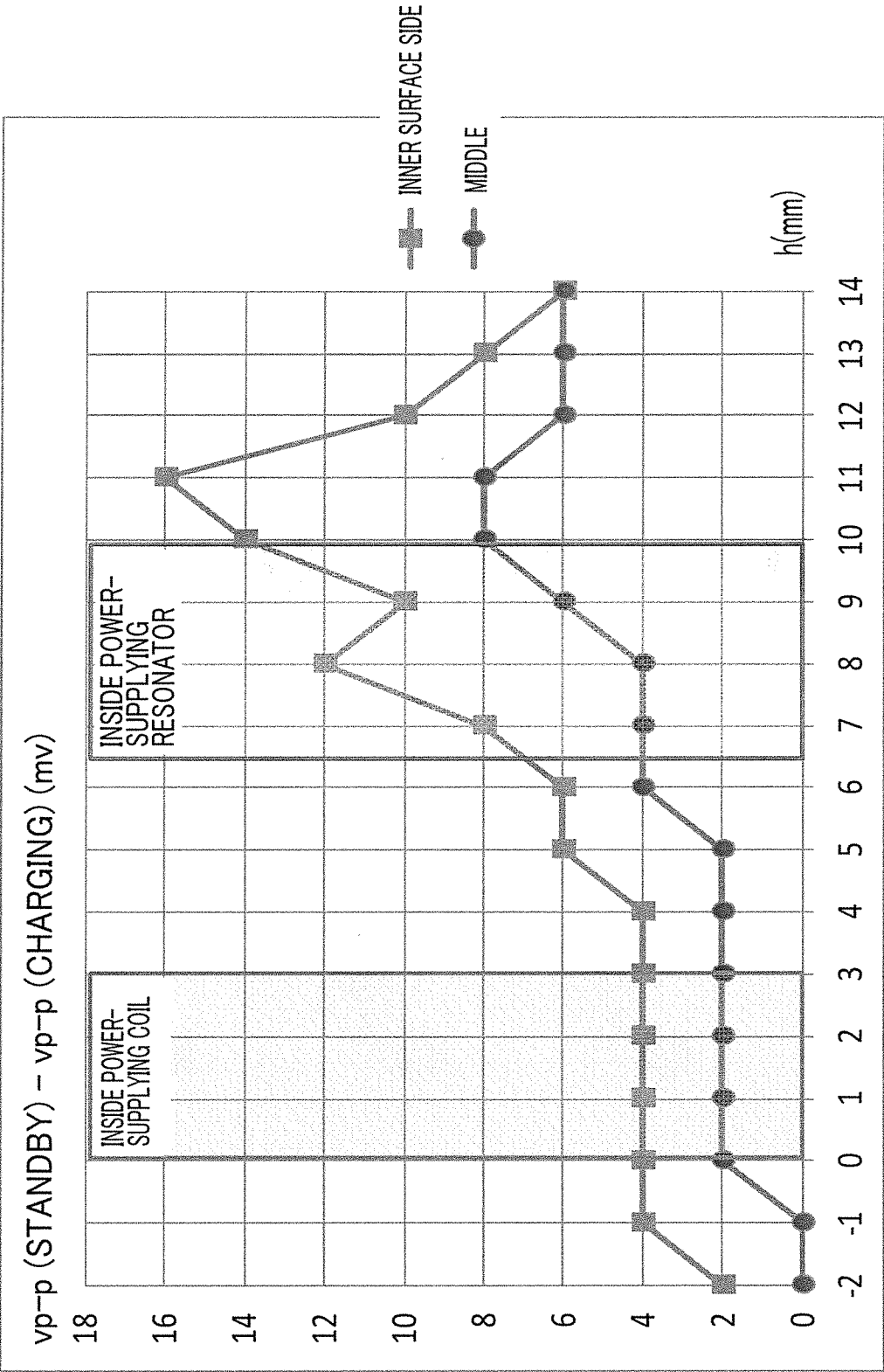


FIG.27

