

FIG. 1

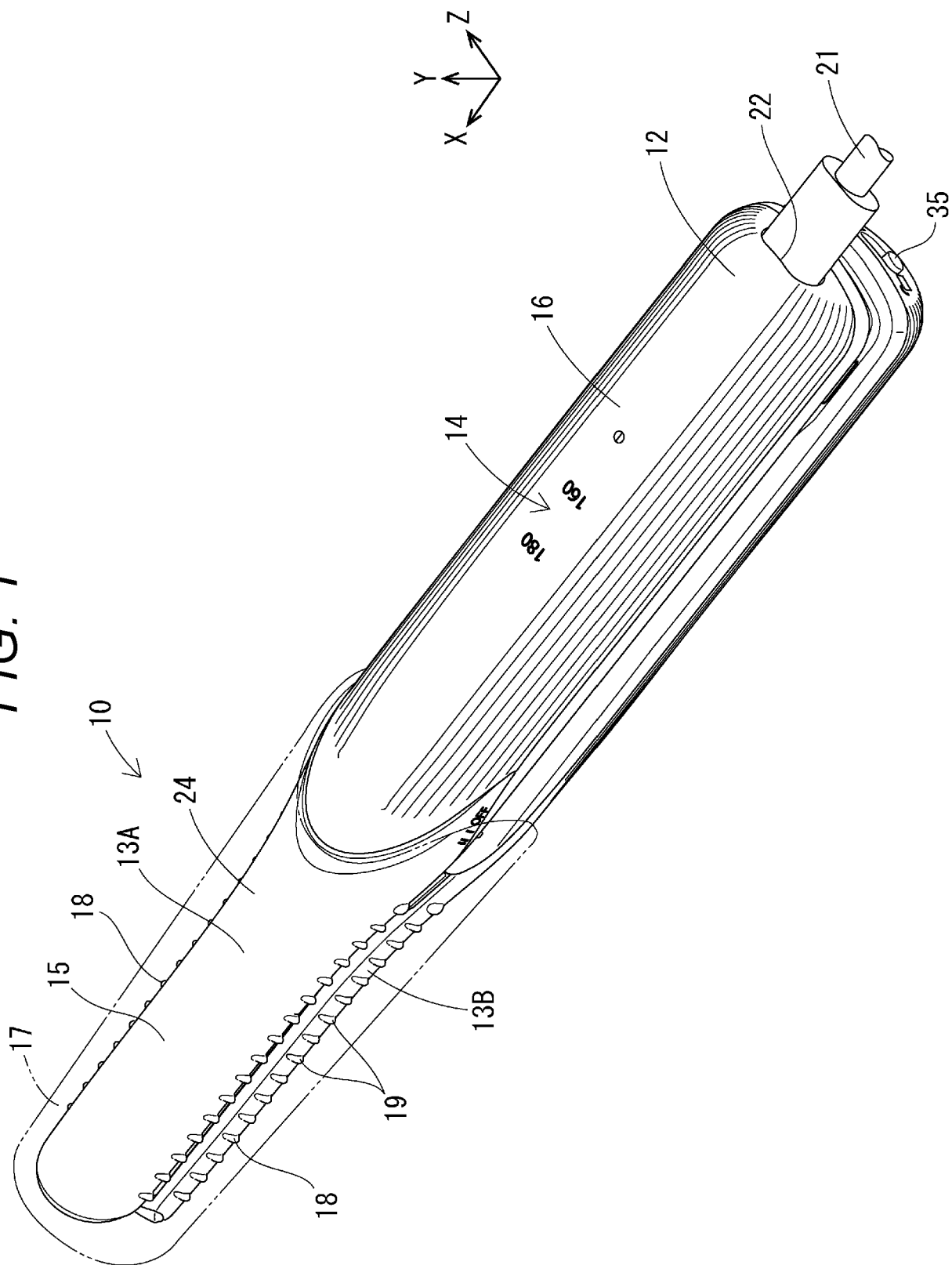
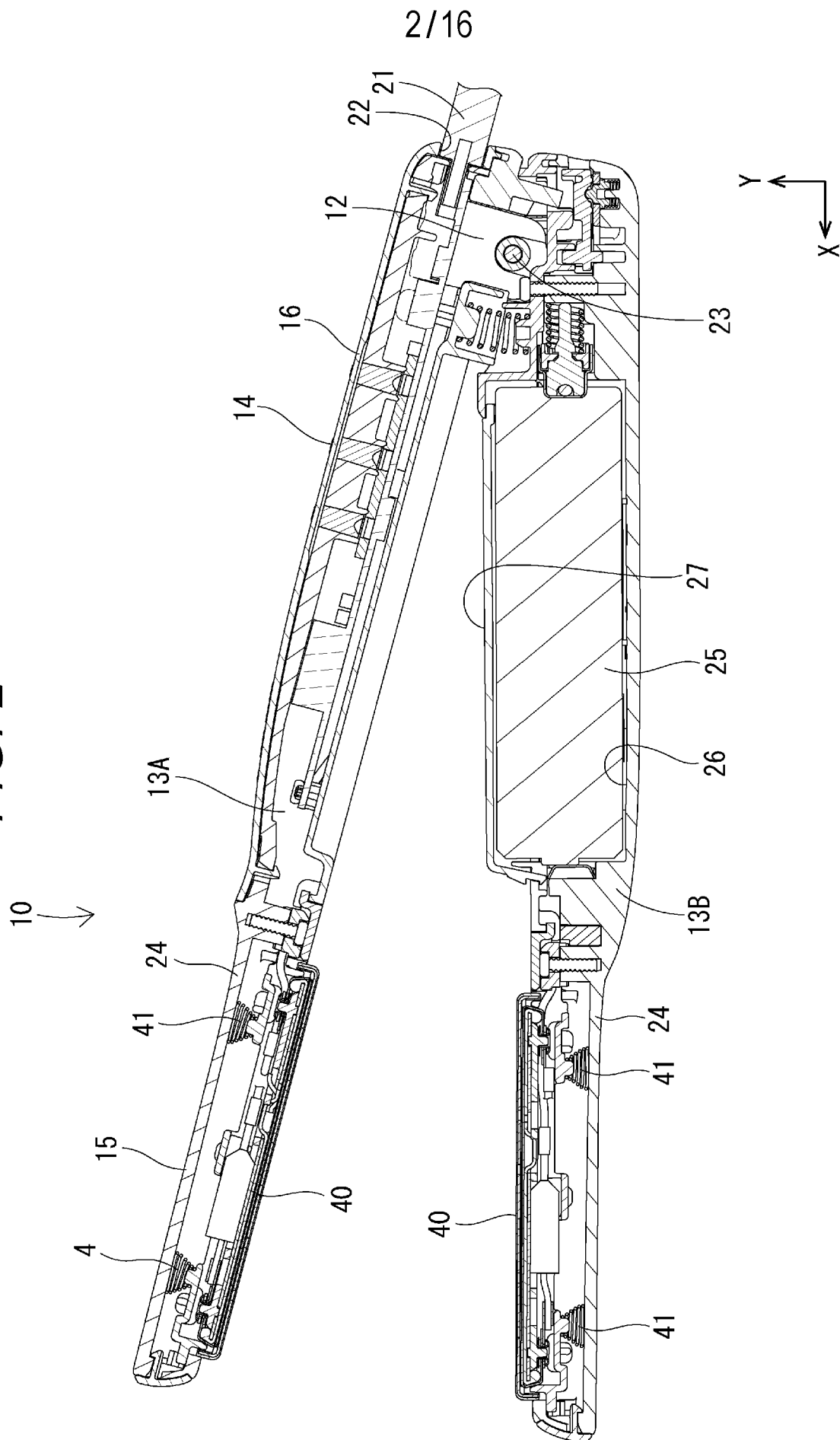


FIG. 2



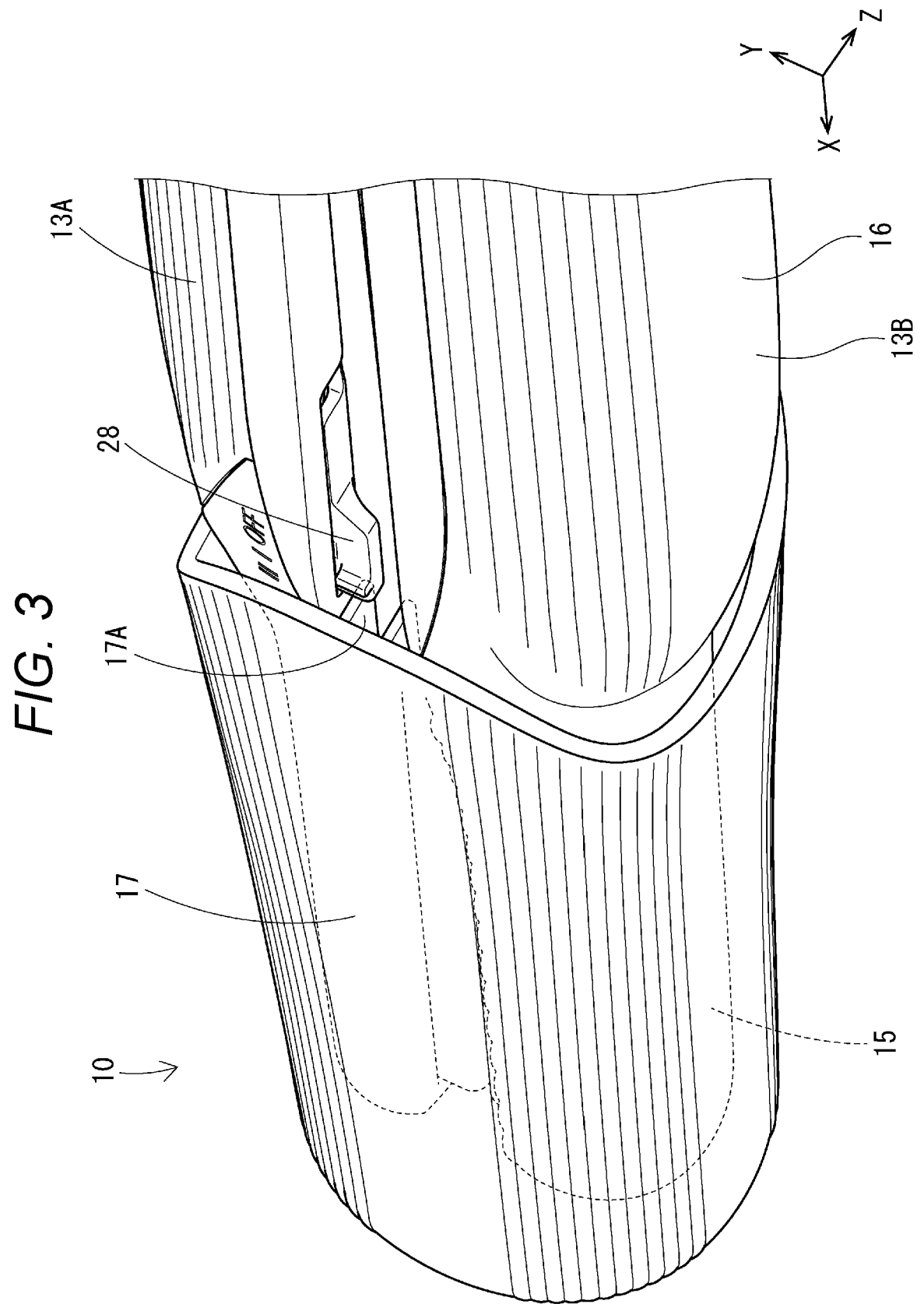


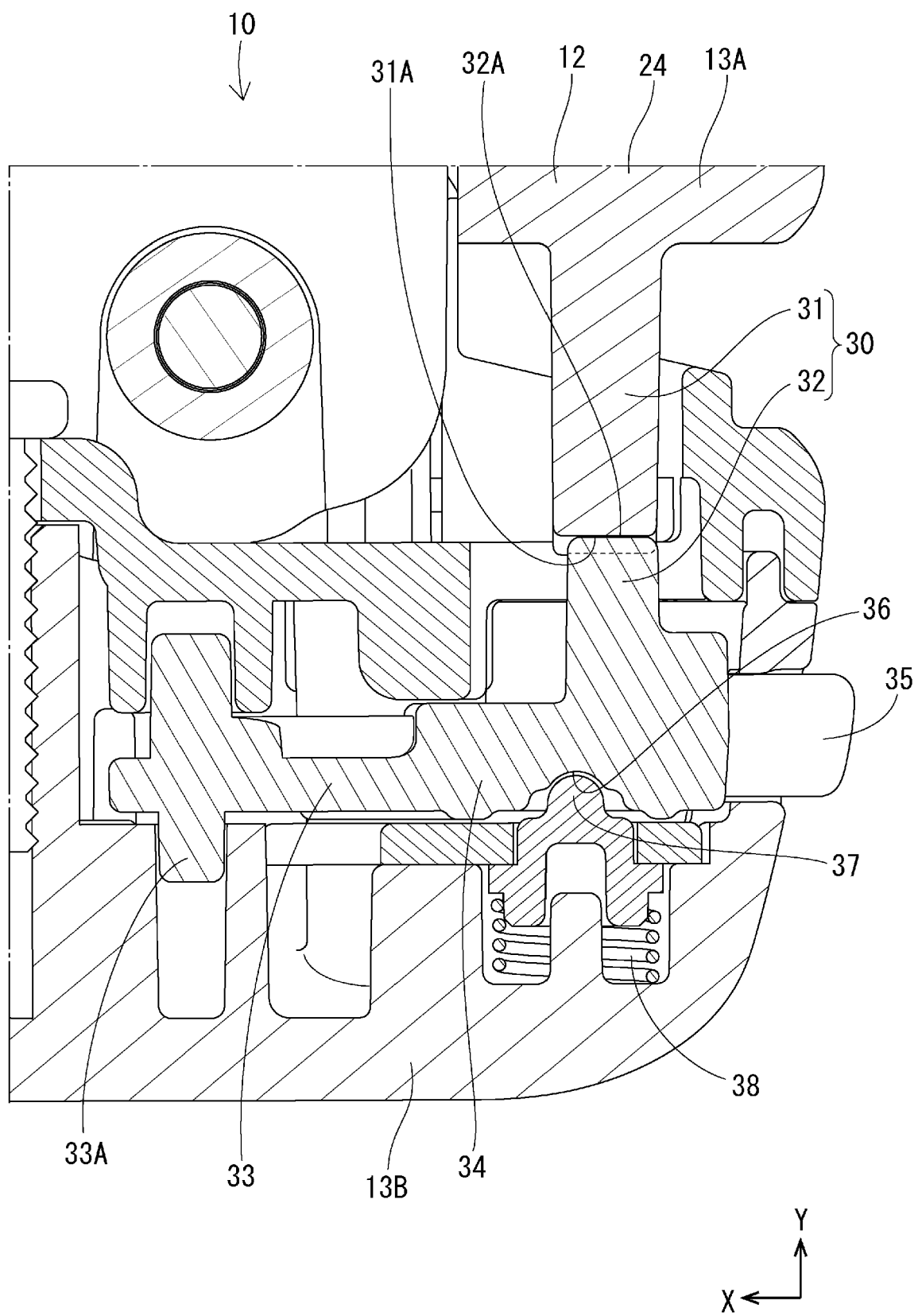
FIG. 4

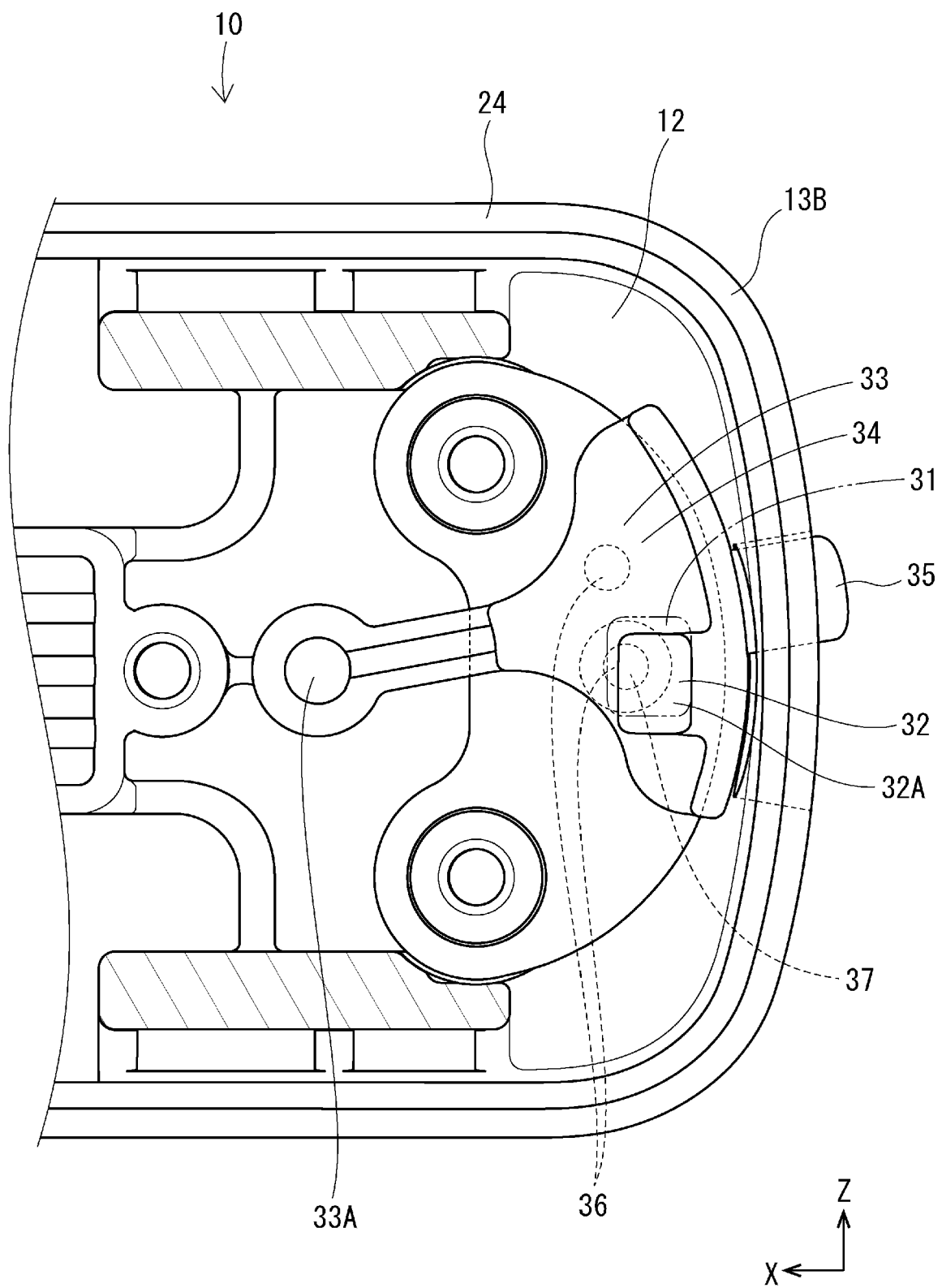
FIG. 5

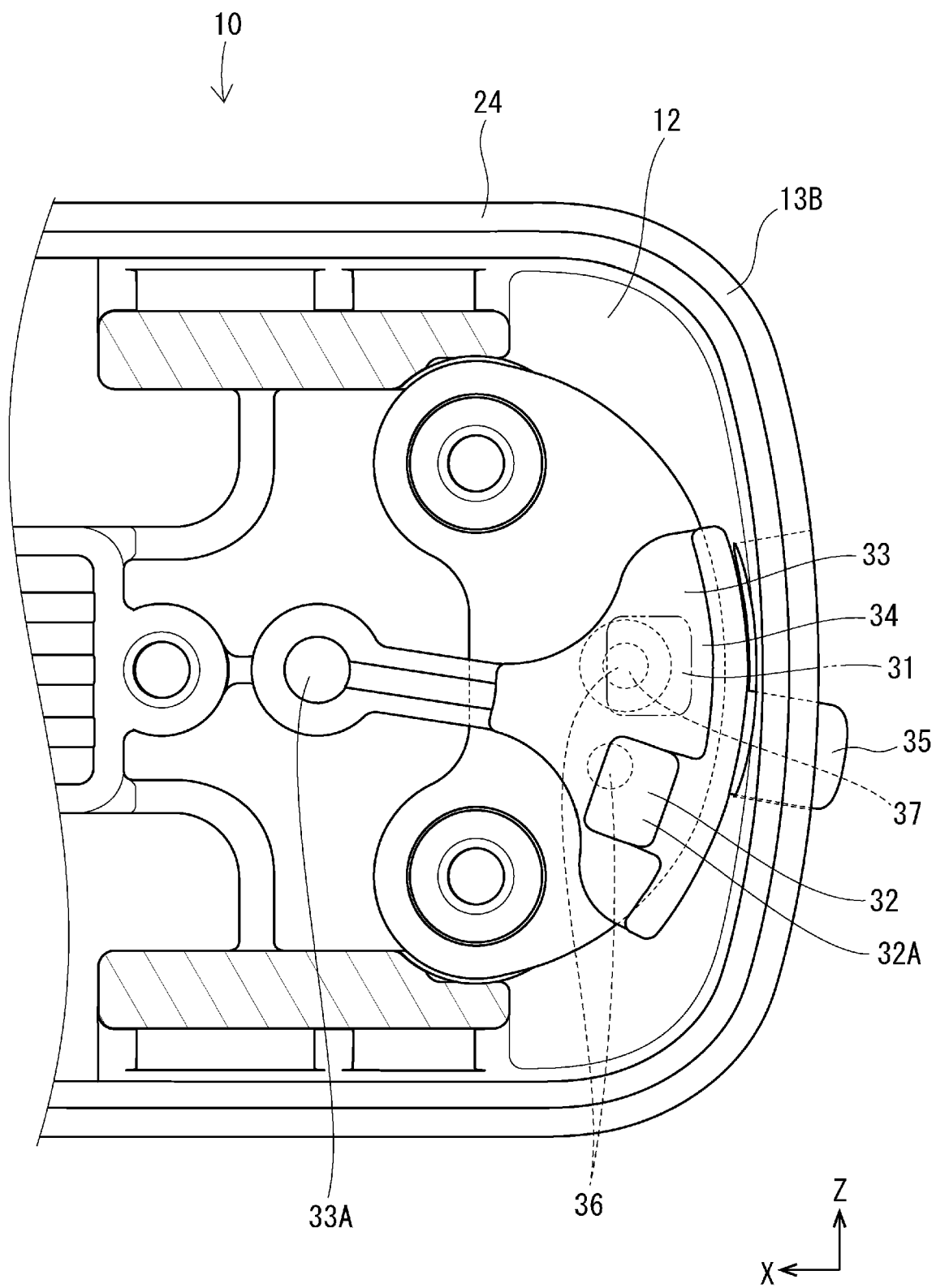
FIG. 6

FIG. 7

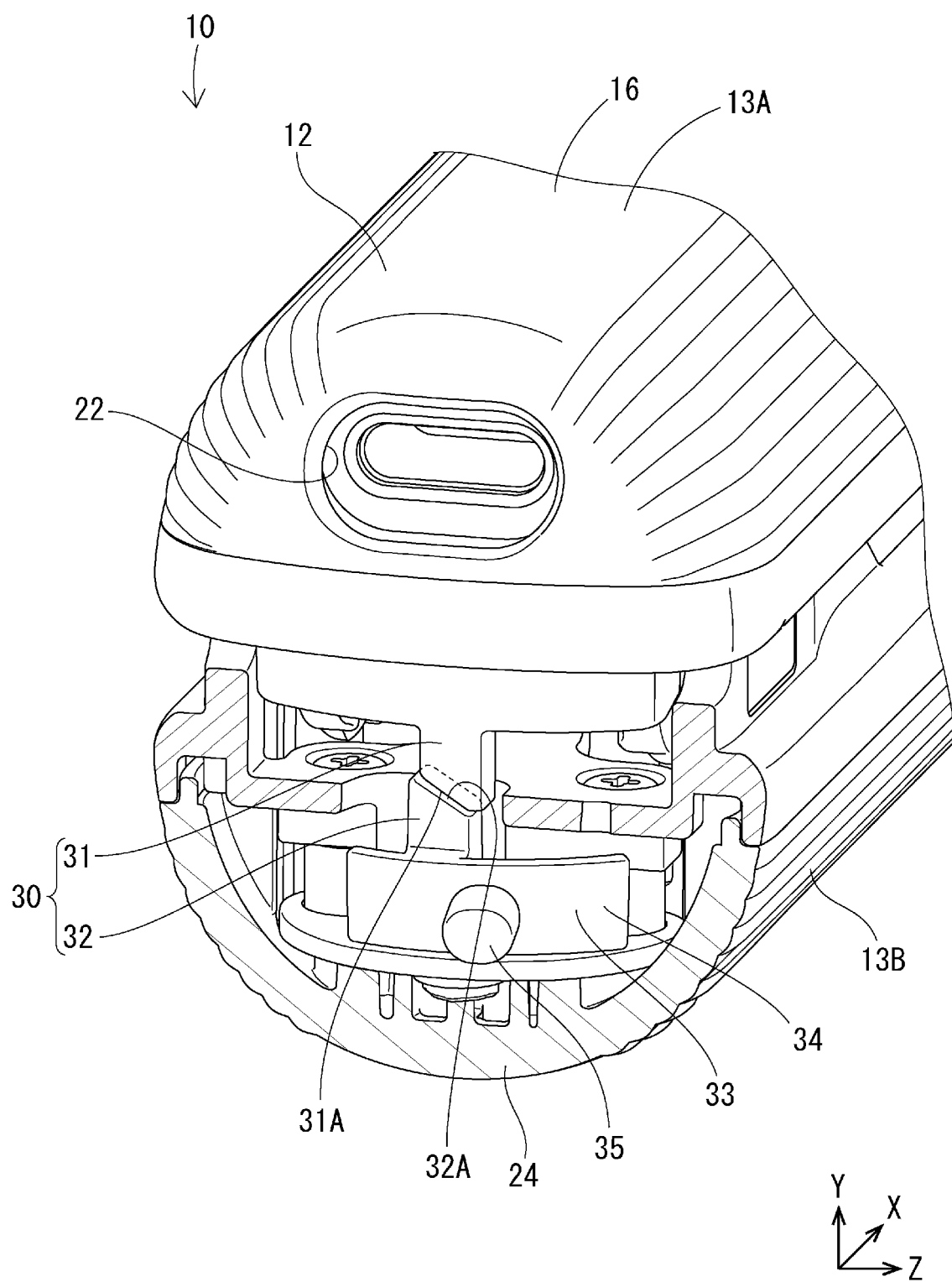


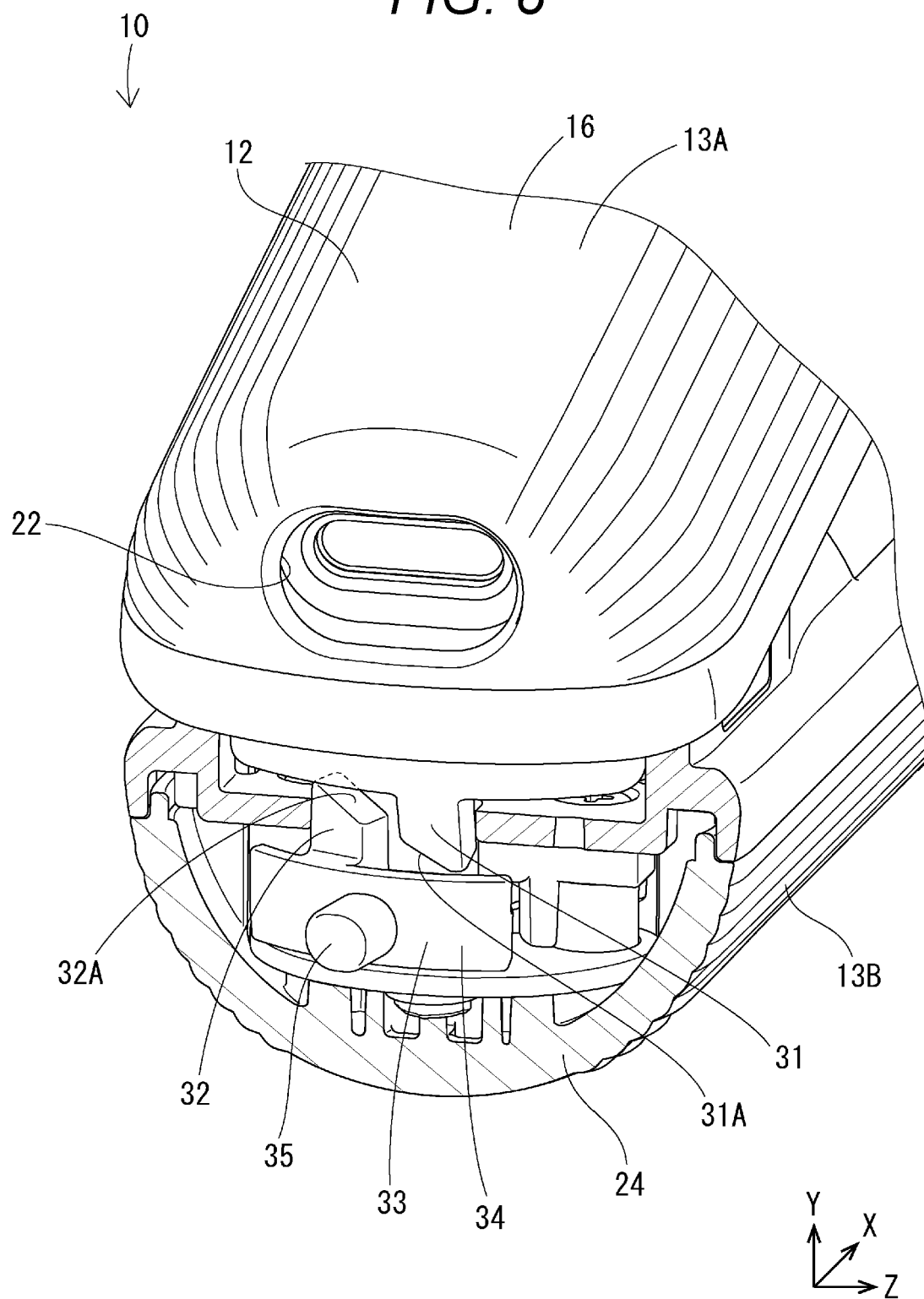
FIG. 8

FIG. 10

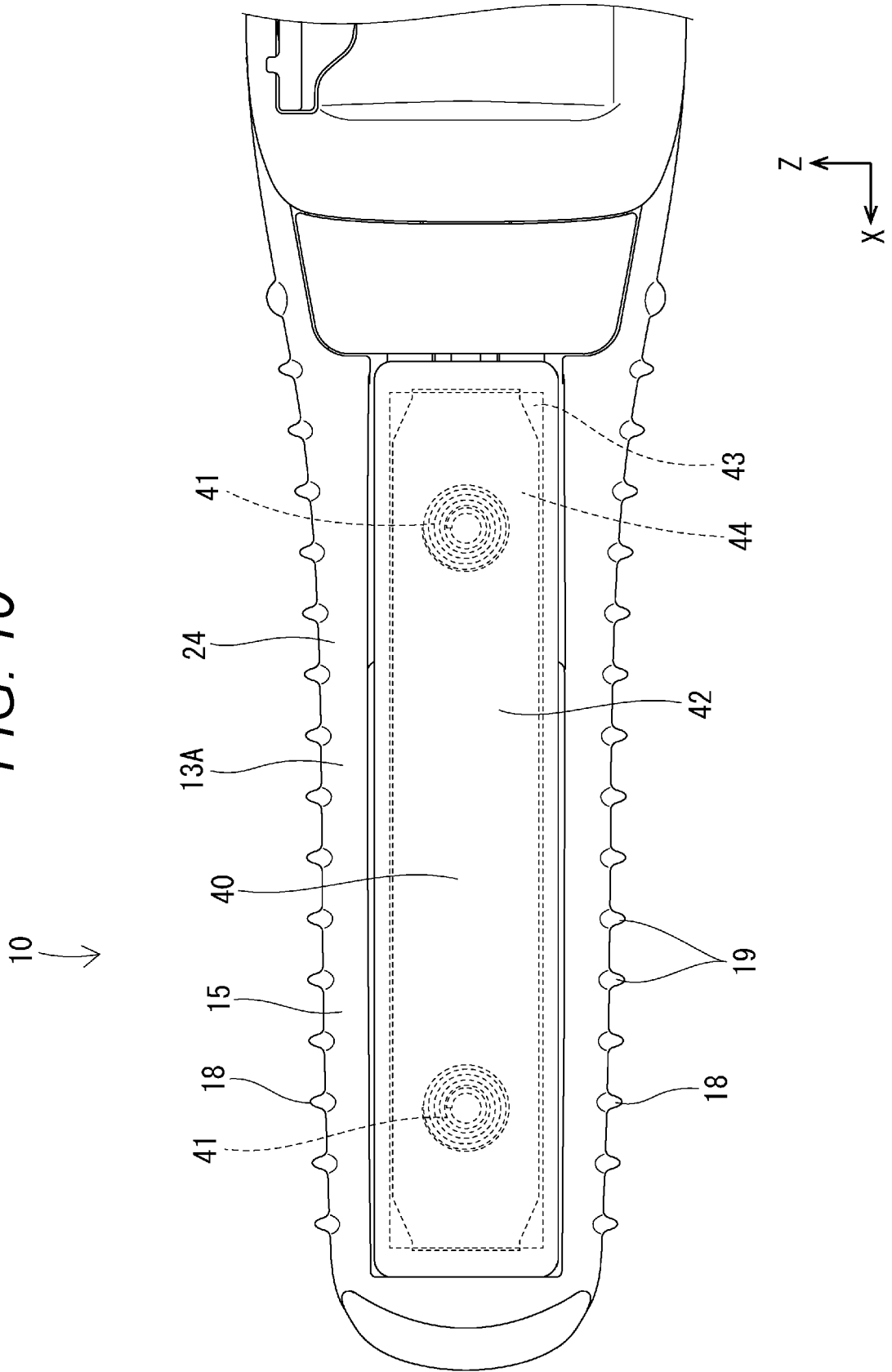


FIG. 11

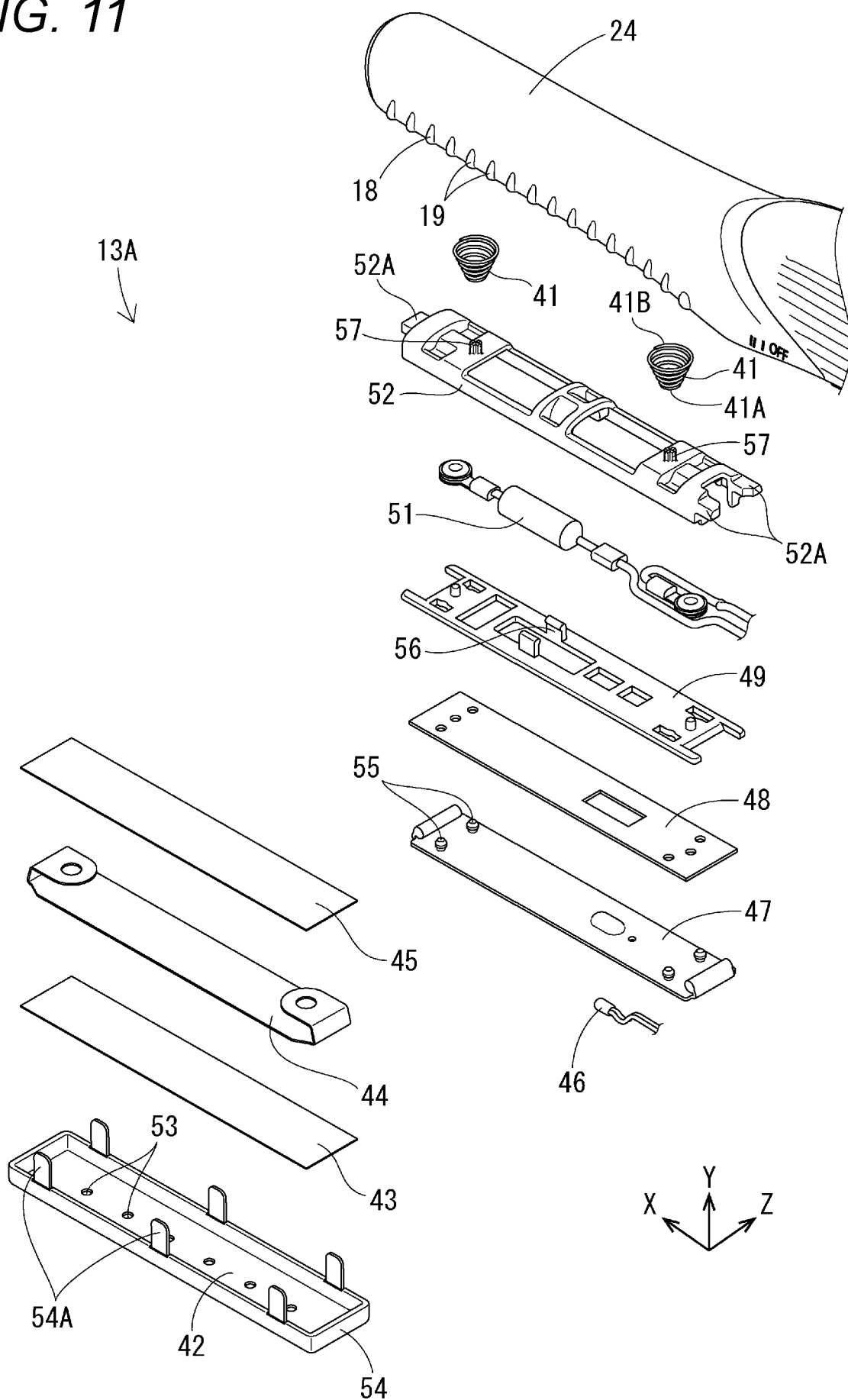


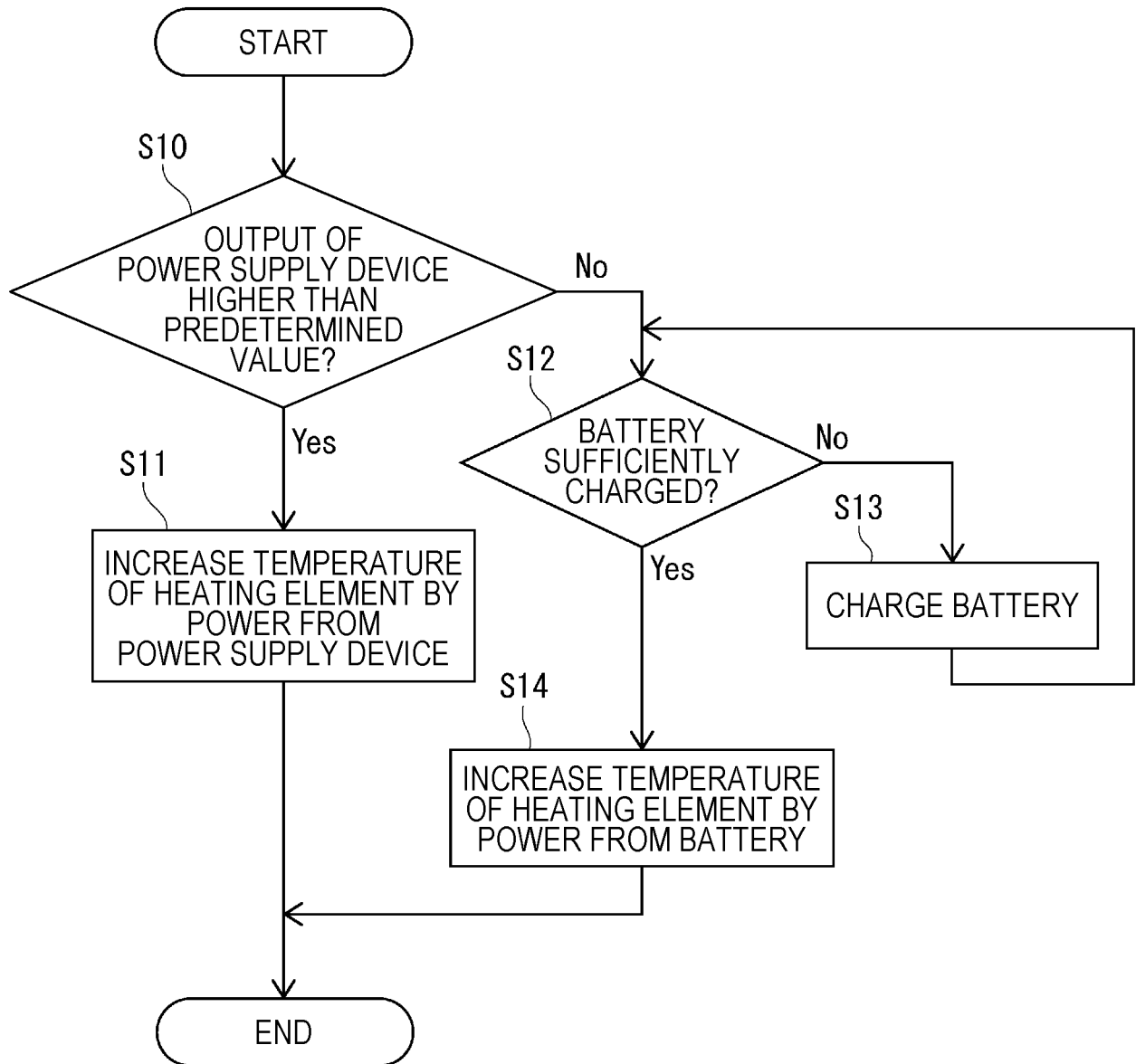
FIG. 12

FIG. 13

		SPRING 1	SPRING 2	SPRING 3
MATERIAL	—	SW-C	SW-C	SW-C
TRANSVERSE ELASTIC MODULUS	G (N/mm ²)	80000	80000	80000
WIRE DIAMETER	mm	0.4	0.45	0.5
MINIMUM AVERAGE DIAMETER	mm	3	2.5	2.5
MAXIMUM AVERAGE DIAMETER	mm	6	6	6
NUMBER OF TURNS	TURNS	4	4	4
NUMBER OF END TURNS ON MAXIMUM DIAMETER SIDE	TURNS	1	1	1
NUMBER OF END TURNS ON MINIMUM DIAMETER SIDE	TURNS	1	1	1
SPRING CONSTANT	—	0.62	1.12	1.71
PITCH ANGLE	DEGREES	1.73	1.952	2.342
EFFECTIVE COIL FREE HEIGHT	mm	1.707	1.819	2.183

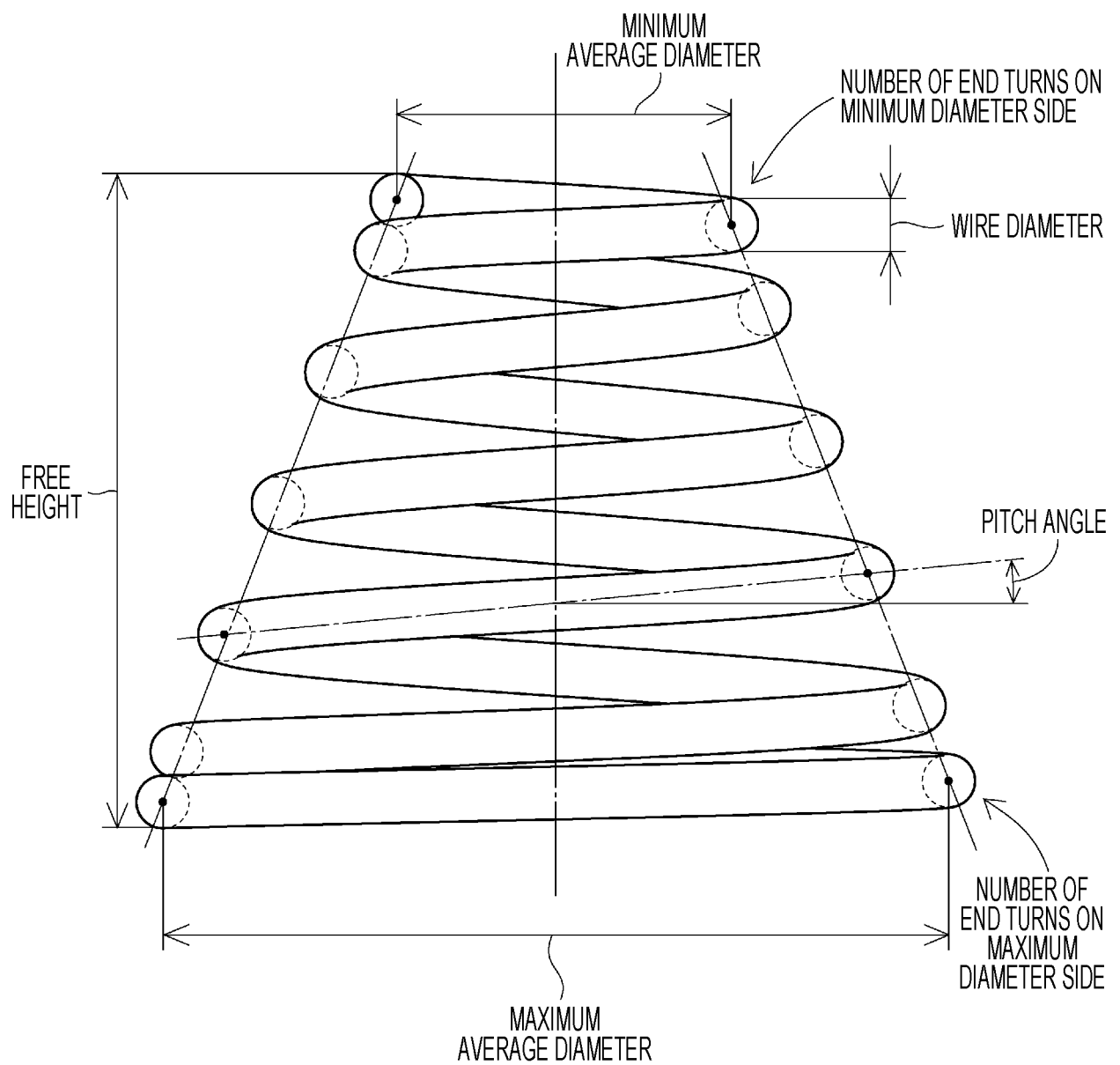
FIG. 14

FIG. 15

SPRING 1

LOAD	(N)	P	0.00	0.50	0.56	0.63	0.72	0.82	0.94	1.09	1.26
DEFLECTION	(mm)	δ	0.00	0.81	0.89	0.96	1.03	1.08	1.11	1.14	1.15

SPRING 2

LOAD	(N)	P	0.00	1.00	1.13	1.29	1.49	1.73	2.03	2.41	2.91	4.61
DEFLECTION	(mm)	δ	0.00	0.89	0.99	1.09	1.17	1.24	1.29	1.34	1.37	1.40

SPRING 3

LOAD	(N)	P	0.00	1.50	1.67	1.86	2.08	2.32	2.60	2.89	3.16	3.28
DEFLECTION	(mm)	δ	0.00	0.88	0.96	1.03	1.09	1.14	1.18	1.20	1.21	1.22

FIG. 16