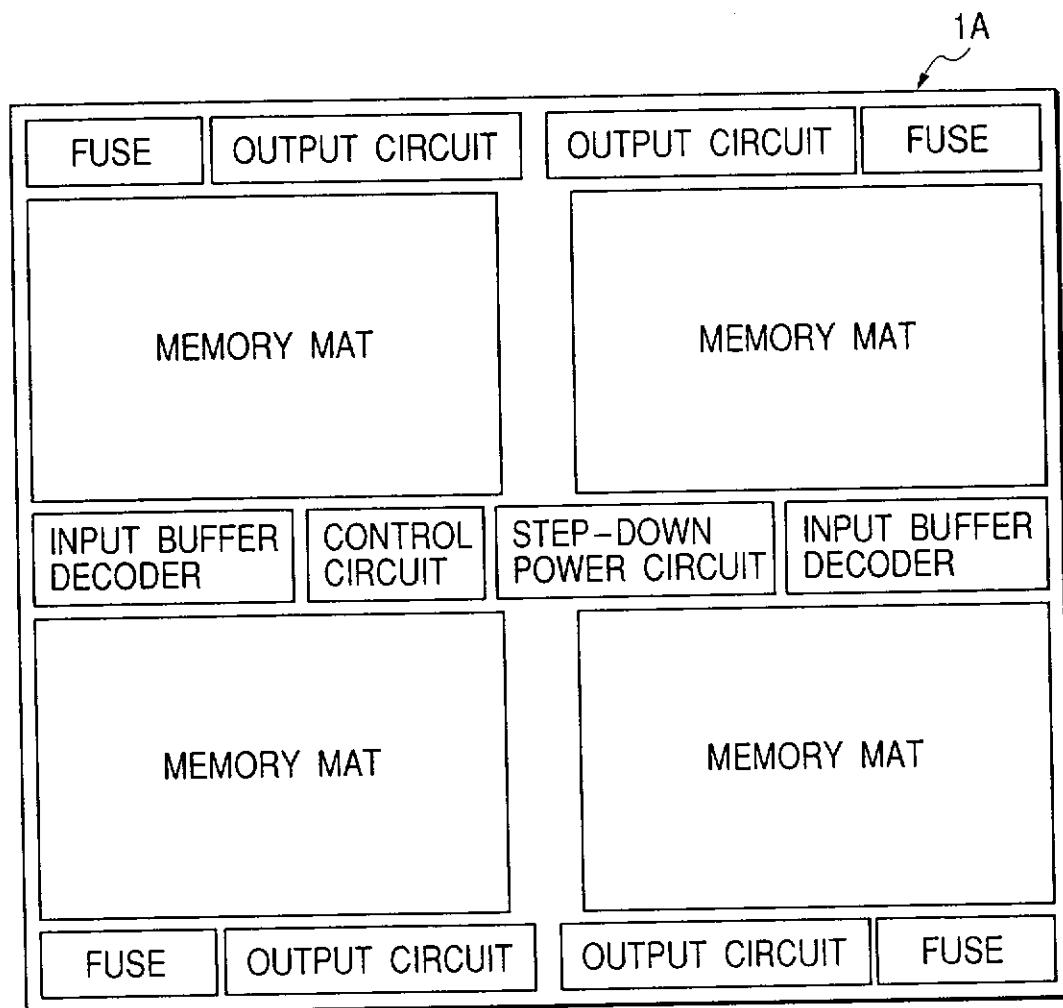
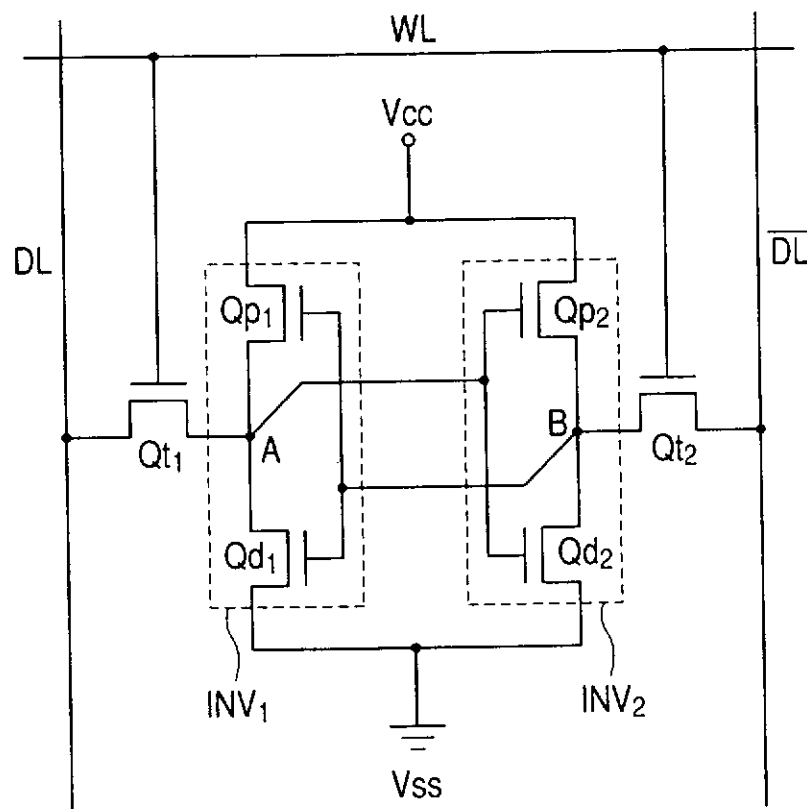


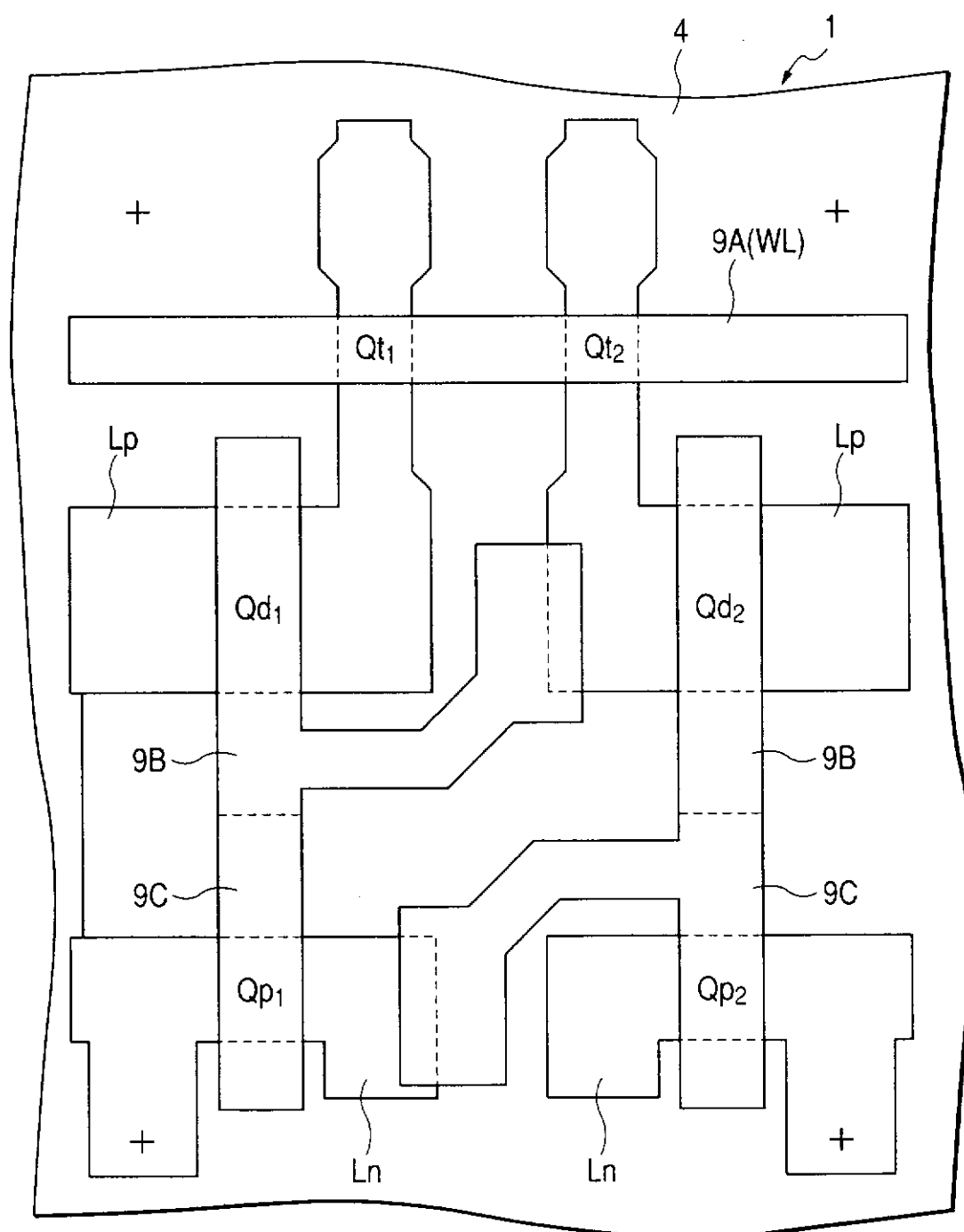
FIG. 1

2 / 19

FIG. 2

3 / 19

FIG. 3



4 / 19

FIG. 4

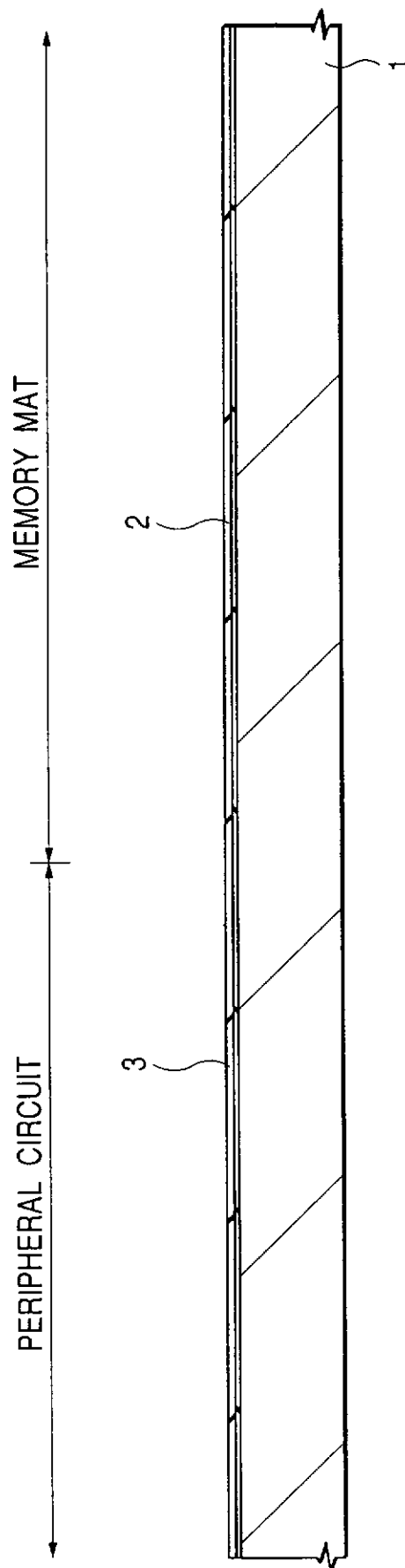


FIG. 5

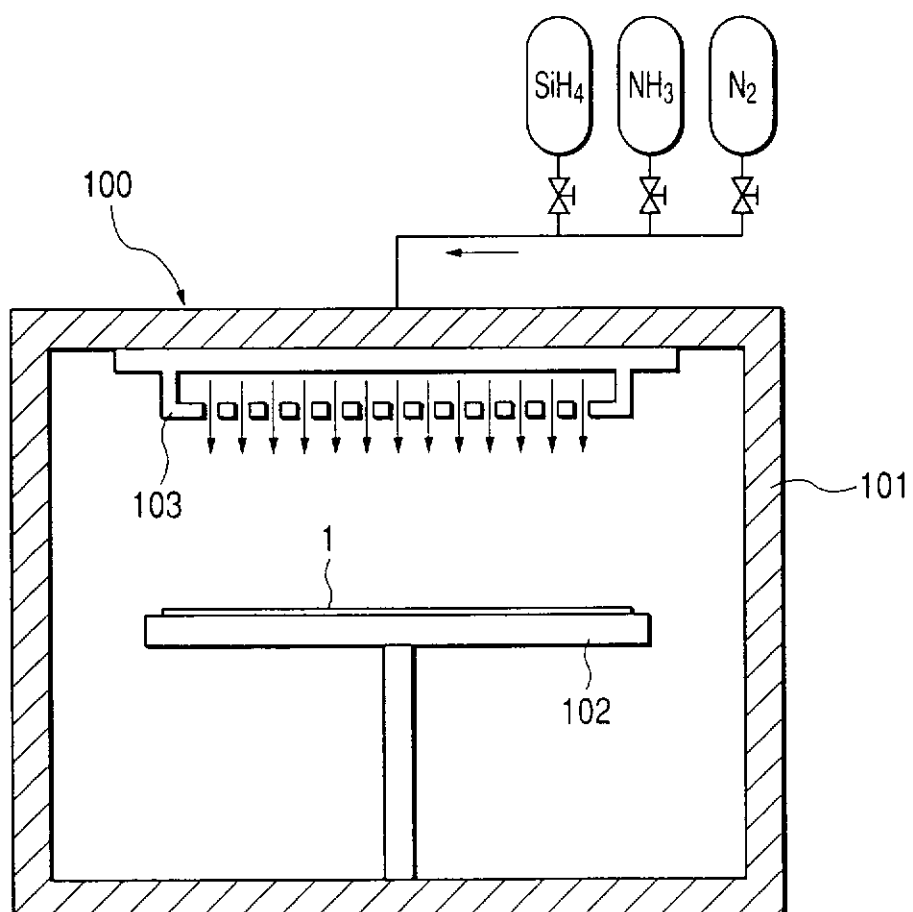


FIG. 6

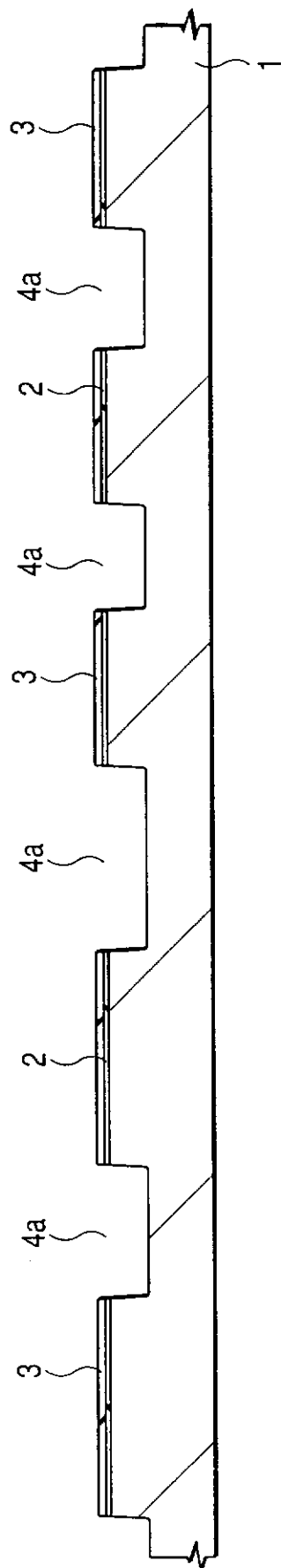


FIG. 7

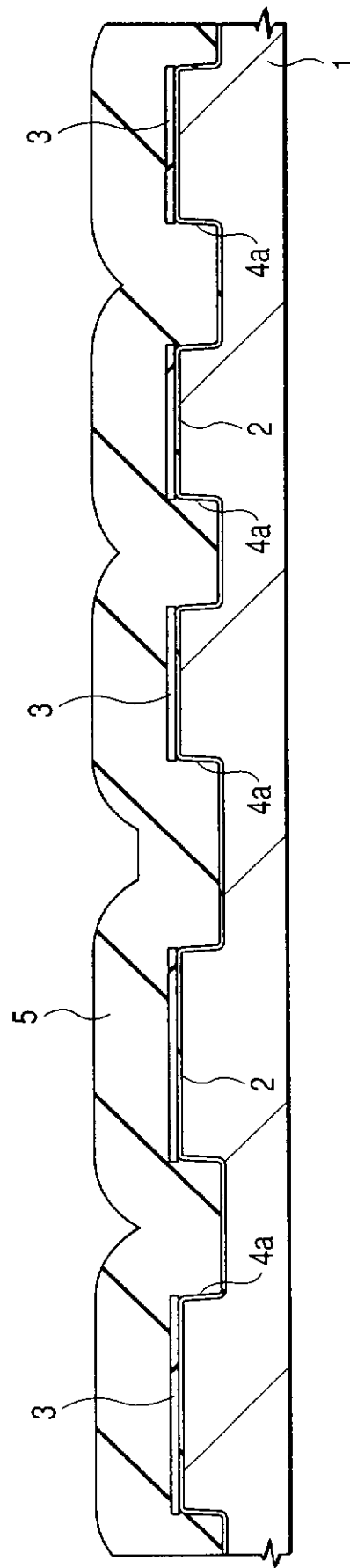


FIG. 8

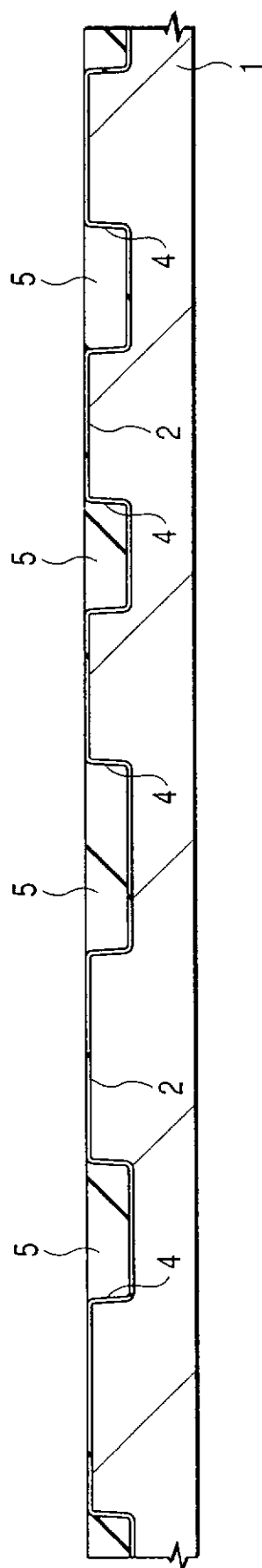


FIG. 9

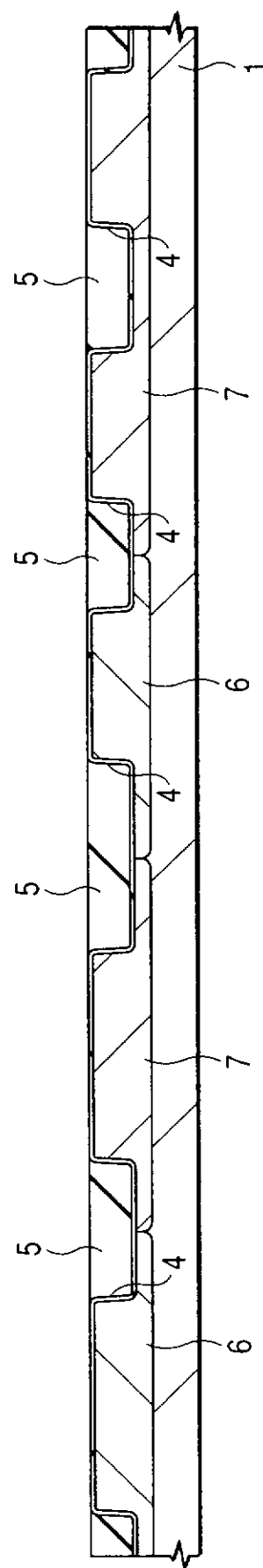


FIG. 10

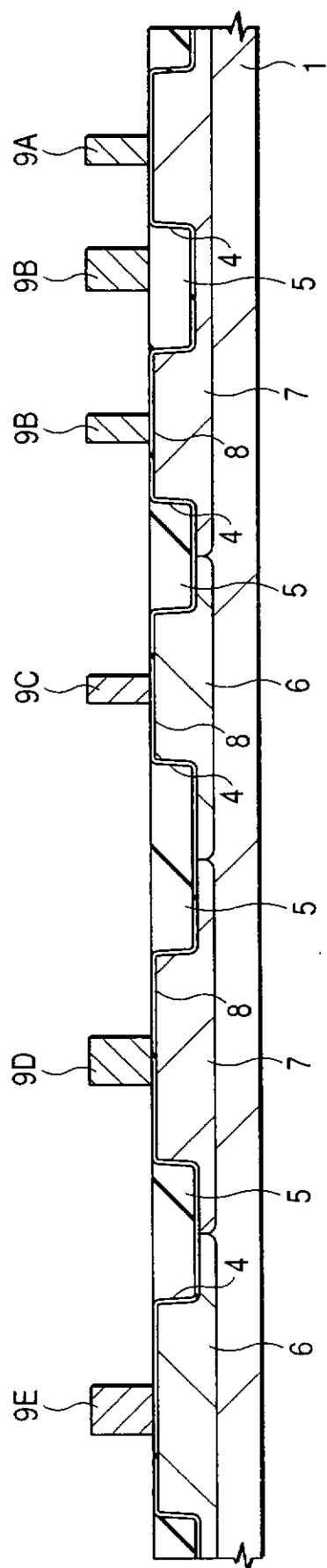
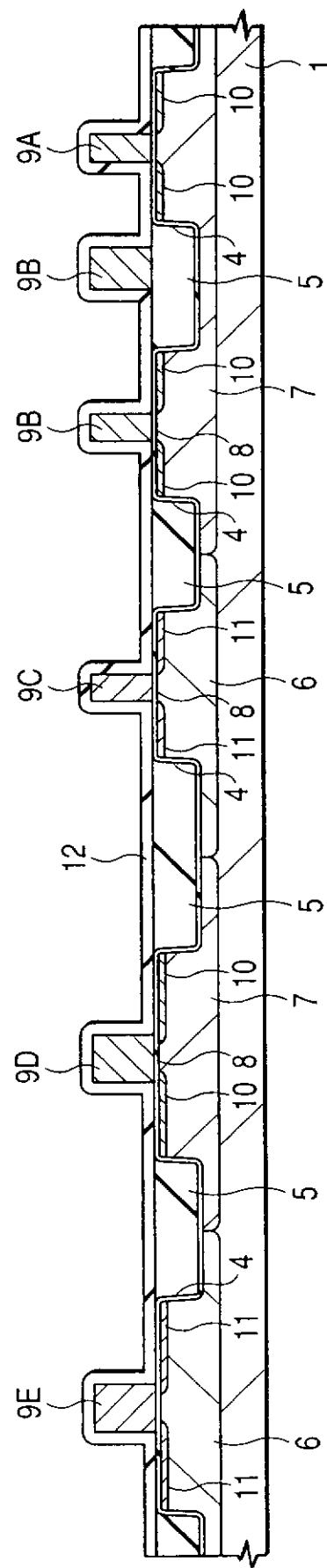


FIG. 11



9/19

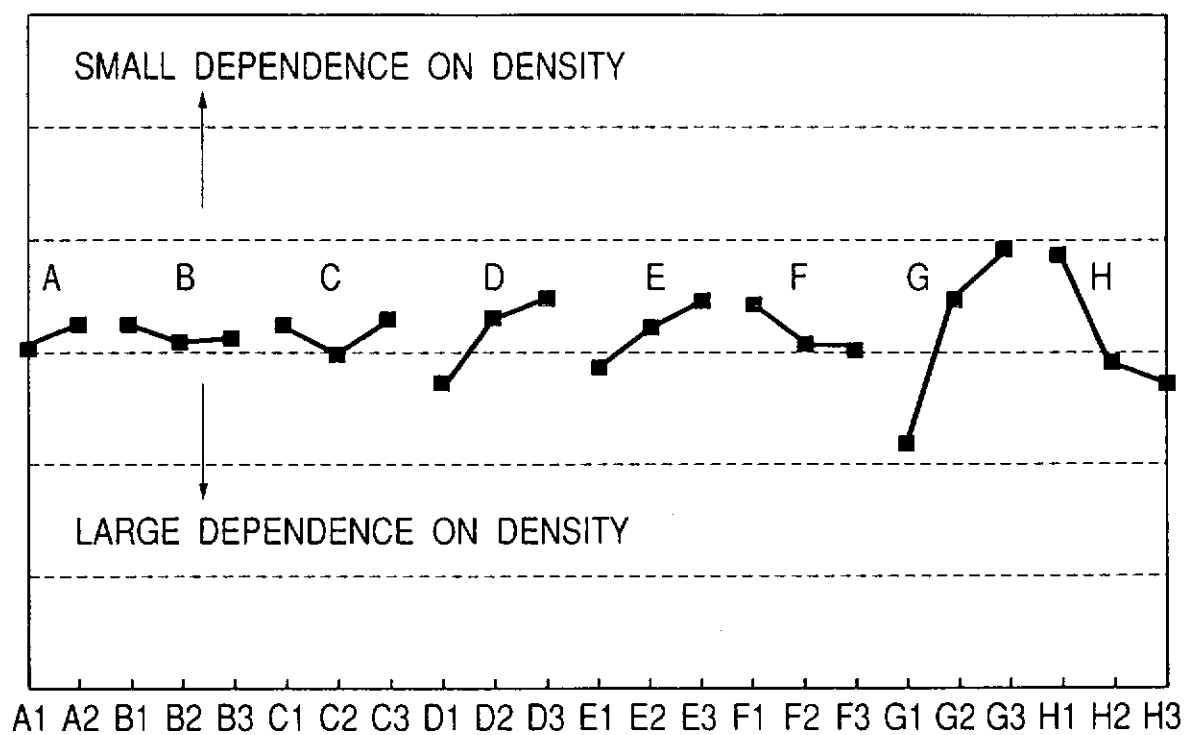
FIG. 12

FIG. 13

	A	B	C	D	E	F	G	H	A	B	C	D	E	F	G	H
									ANNEALING TIME OF NH ₃ (sec.)	WALL TEMP. (°C)	DISTANCE BETWEEN ELECTRODES	FILM FORMING PRESSURE (Torr)	FILM FORMING TEMPERATURE (°C)	N ₂ FLOW RATE (sccm)	NH ₃ FLOW RATE (sccm)	SiH ₄ FLOW RATE (sccm)
TM9	1	1	1	1	1	1	1	1	0	25	500	200	700	5000	1000	20
TM7	1	1	2	2	2	2	2	2	0	25	550	275	750	7000	3000	45
TM11	1	1	3	3	3	3	3	3	0	25	600	350	800	9000	5000	70
TM5	1	2	1	1	2	2	3	3	0	30	500	200	750	7000	5000	70
TM1	1	2	2	2	3	3	1	1	0	30	550	275	800	9000	1000	20
TM3	1	2	3	3	1	1	2	2	0	30	600	350	700	5000	3000	45
TM15	1	3	1	2	1	3	2	3	0	35	500	275	700	9000	3000	70
TM17	1	3	2	3	2	1	3	1	0	35	550	350	750	5000	5000	20
TM13	1	3	3	1	3	2	1	2	0	35	600	200	800	7000	1000	45
TM12	2	1	1	3	3	2	2	1	60	25	500	350	800	7000	3000	20
TM10	2	1	2	1	1	3	3	2	60	25	550	200	700	9000	5000	45
TM8	2	1	3	2	2	1	1	3	60	25	600	275	750	5000	1000	70
TM2	2	2	1	2	3	1	3	2	60	30	500	275	800	5000	5000	45
TM4	2	2	2	3	1	2	1	3	60	30	550	350	700	7000	1000	70
TM8	2	2	3	1	2	3	2	1	60	30	600	200	750	9000	3000	20
TM18	2	3	1	3	2	3	1	2	60	35	500	350	750	9000	1000	45
TM14	2	3	2	1	3	1	2	3	60	35	550	200	800	5000	3000	70
TM16	2	3	3	2	1	2	3	1	60	35	600	275	700	7000	5000	20

FIG. 14

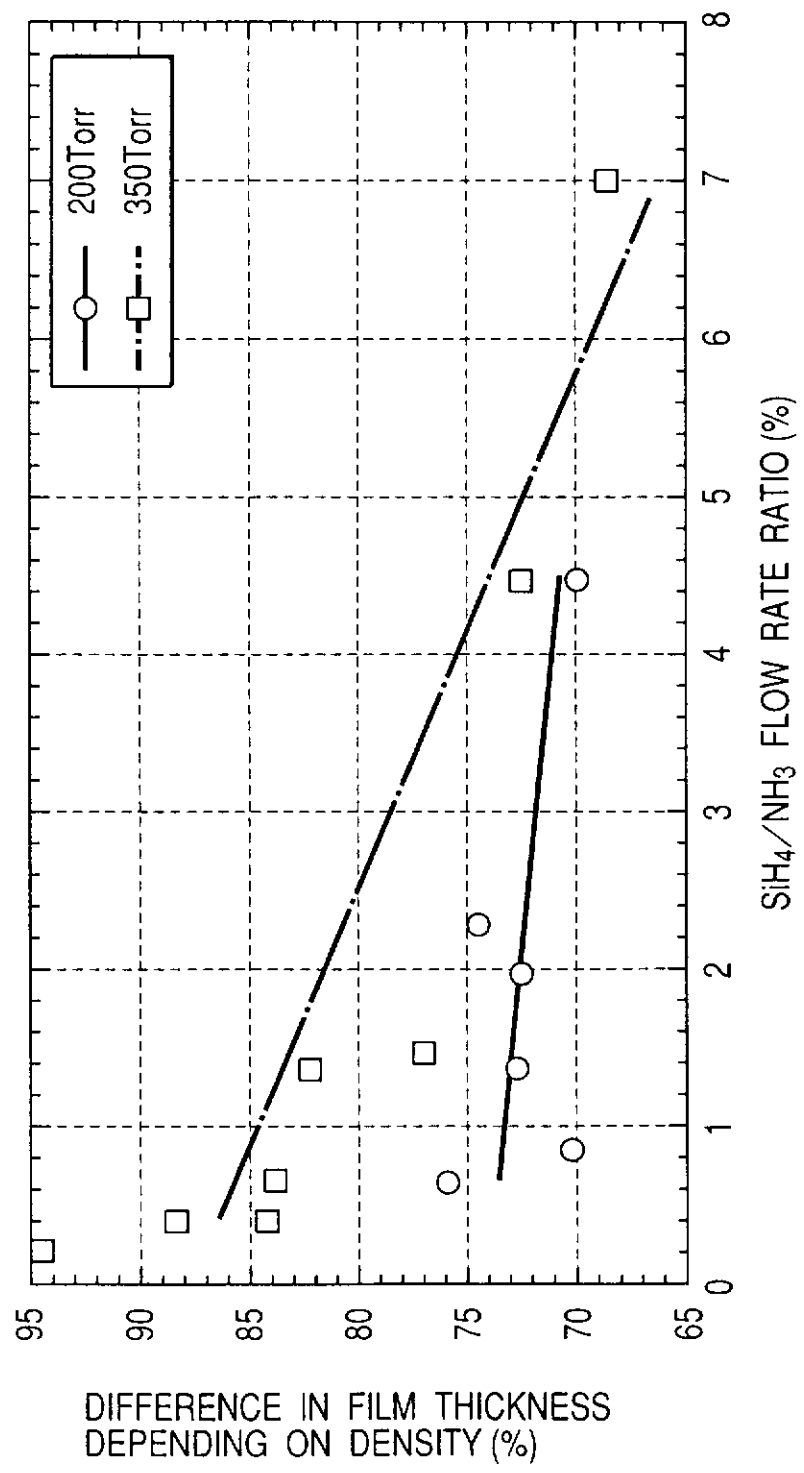


FIG. 15

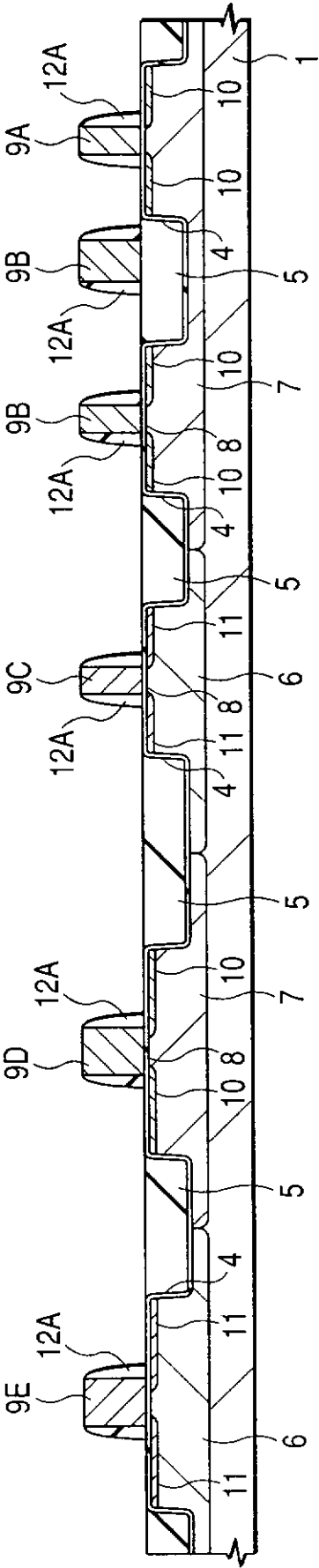


FIG. 16

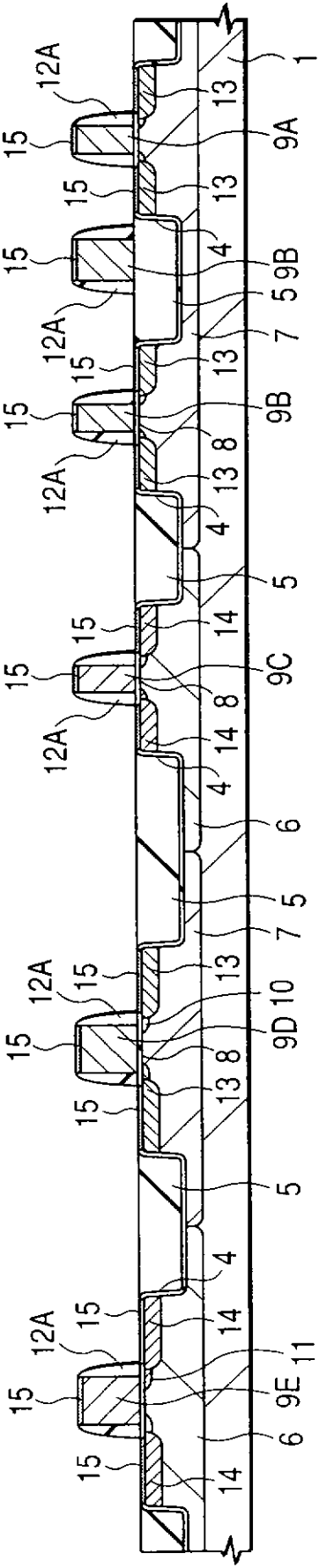


FIG. 17

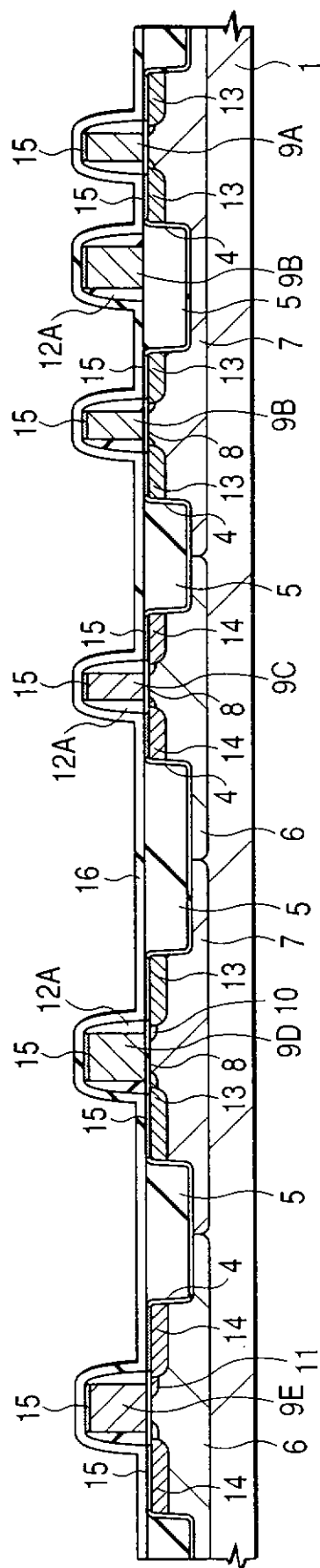


FIG. 18

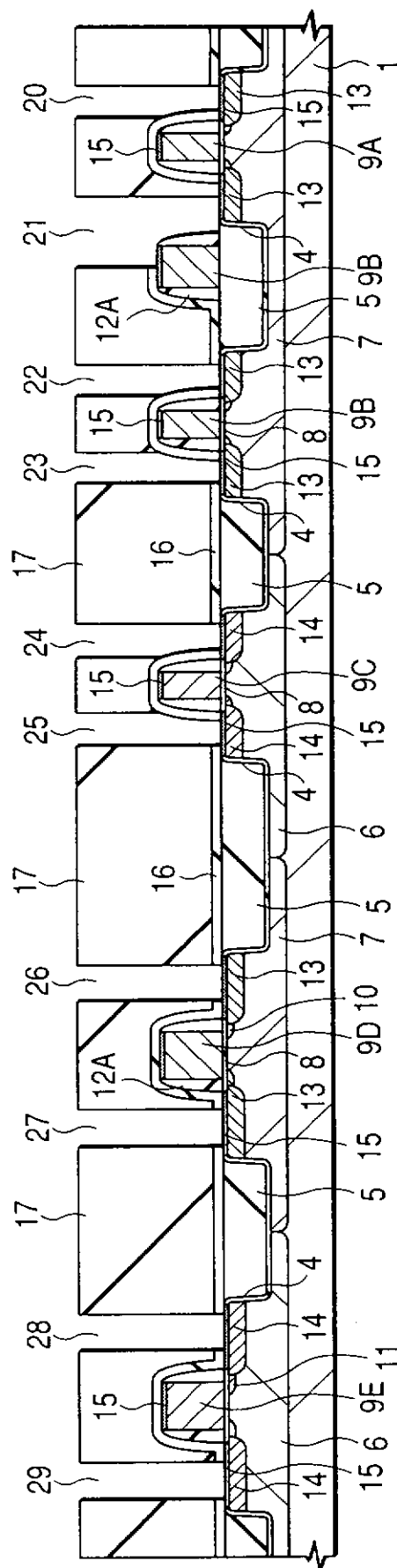
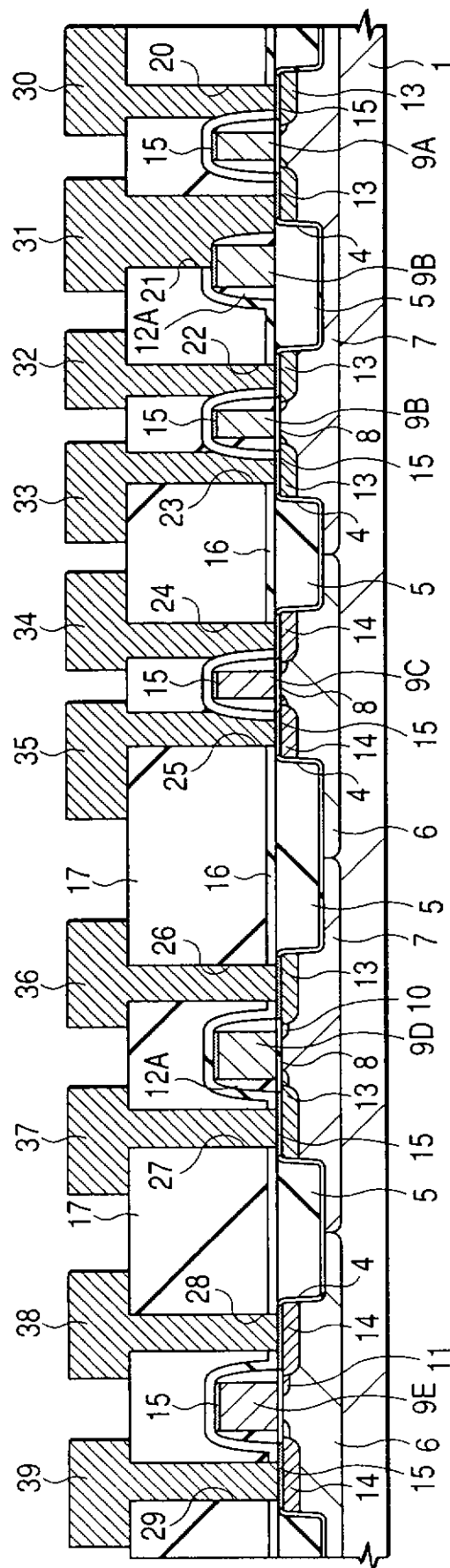


FIG. 19



15 / 19

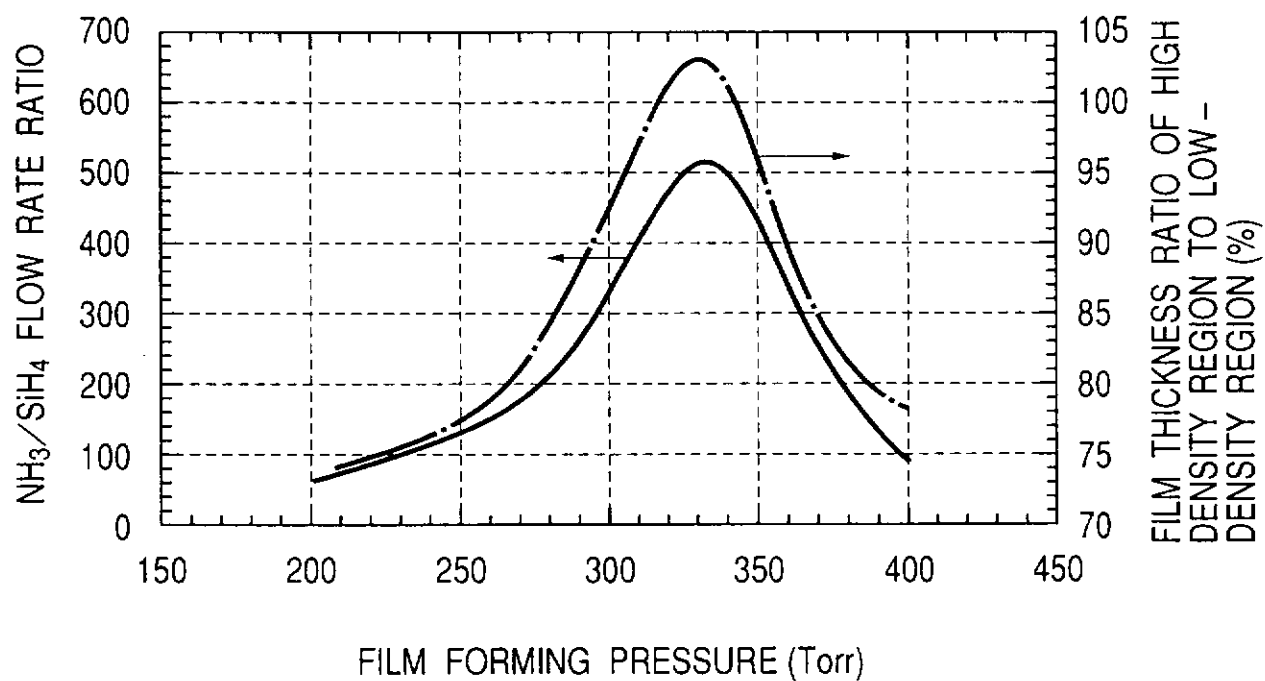
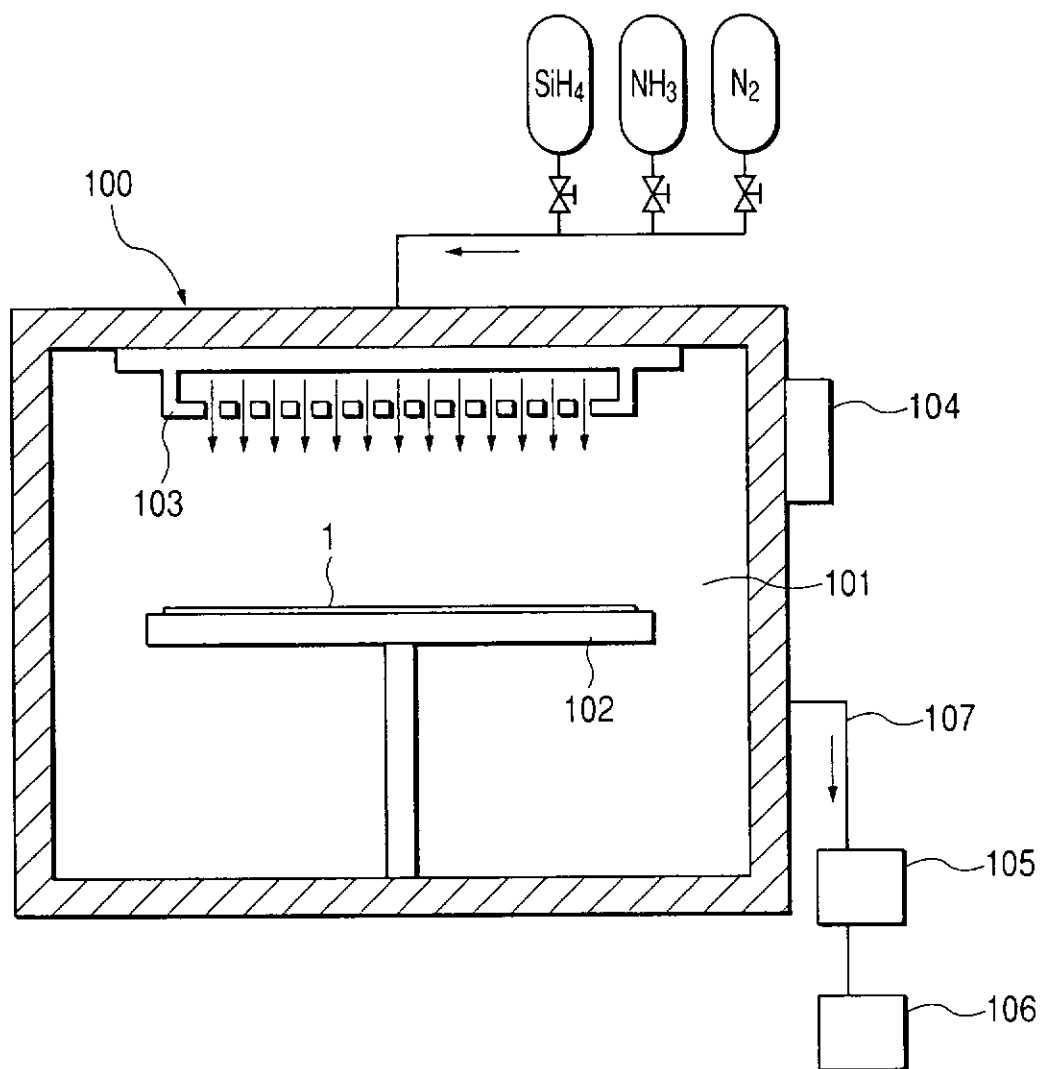
FIG. 20

FIG. 21

17 / 19

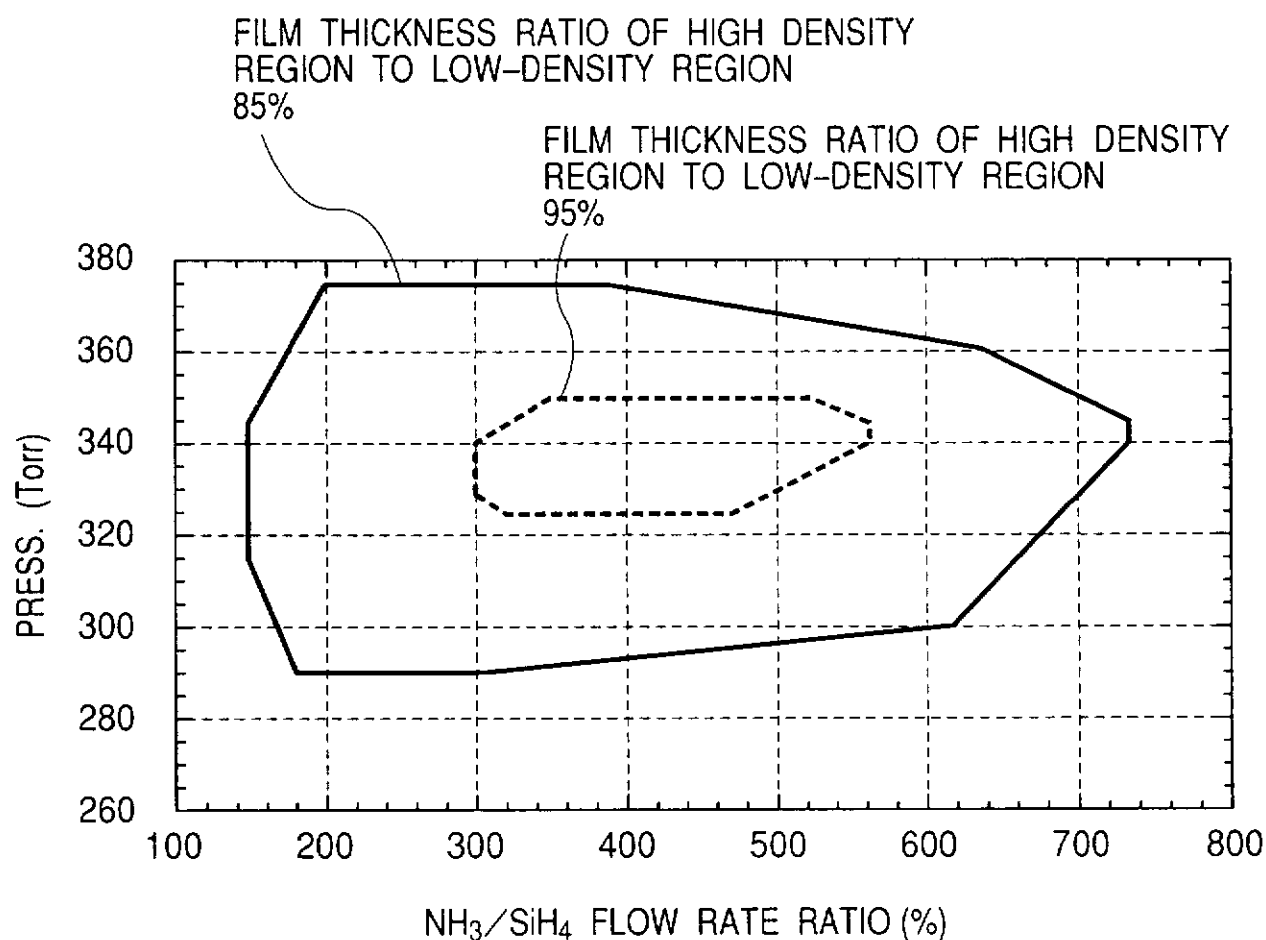
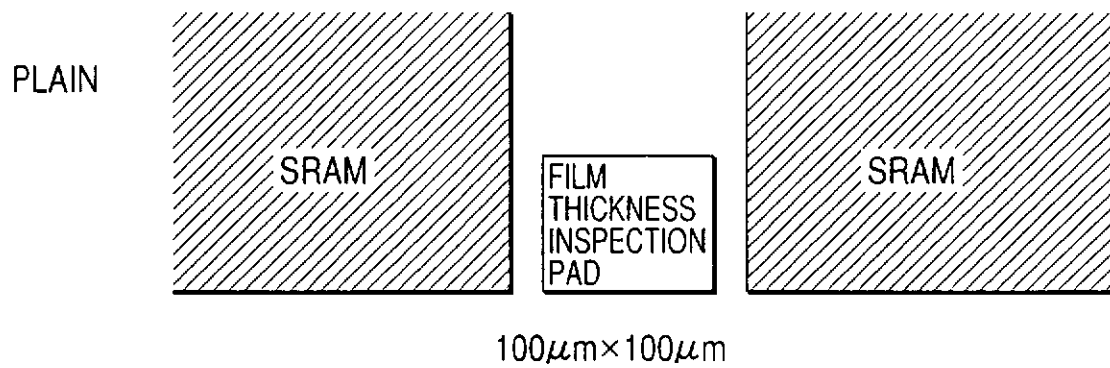
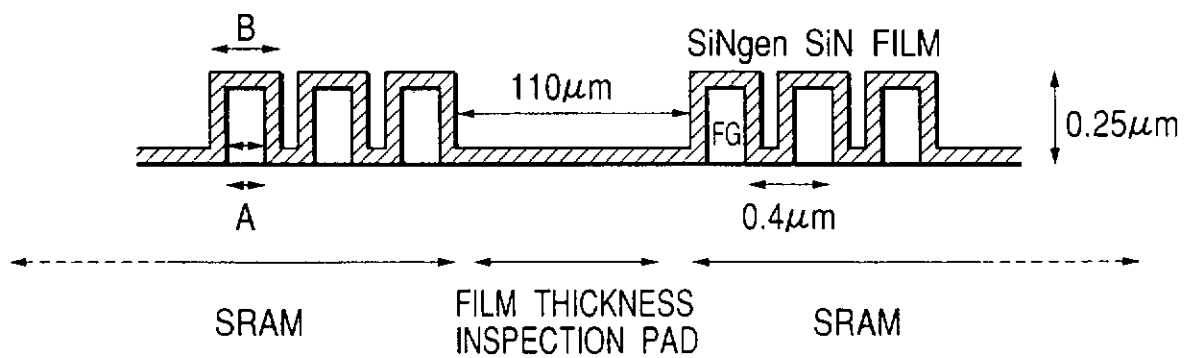
FIG. 22

FIG. 3 REGIONS OF AN NH_3/SiH_4 FLOW RATE RATIO AND A FILM FORMING PRESSURE PERMITTING A FILM THICKNESS RATIO OF HIGH DENSITY REGION TO LOW-DENSITY REGION NOT LESS THAN 85% AND NOT LESS THAN 95%

18 / 19

FIG. 23(a)*FIG. 23(b)*

CROSS - SECTION



19 / 19

FIG. 24