

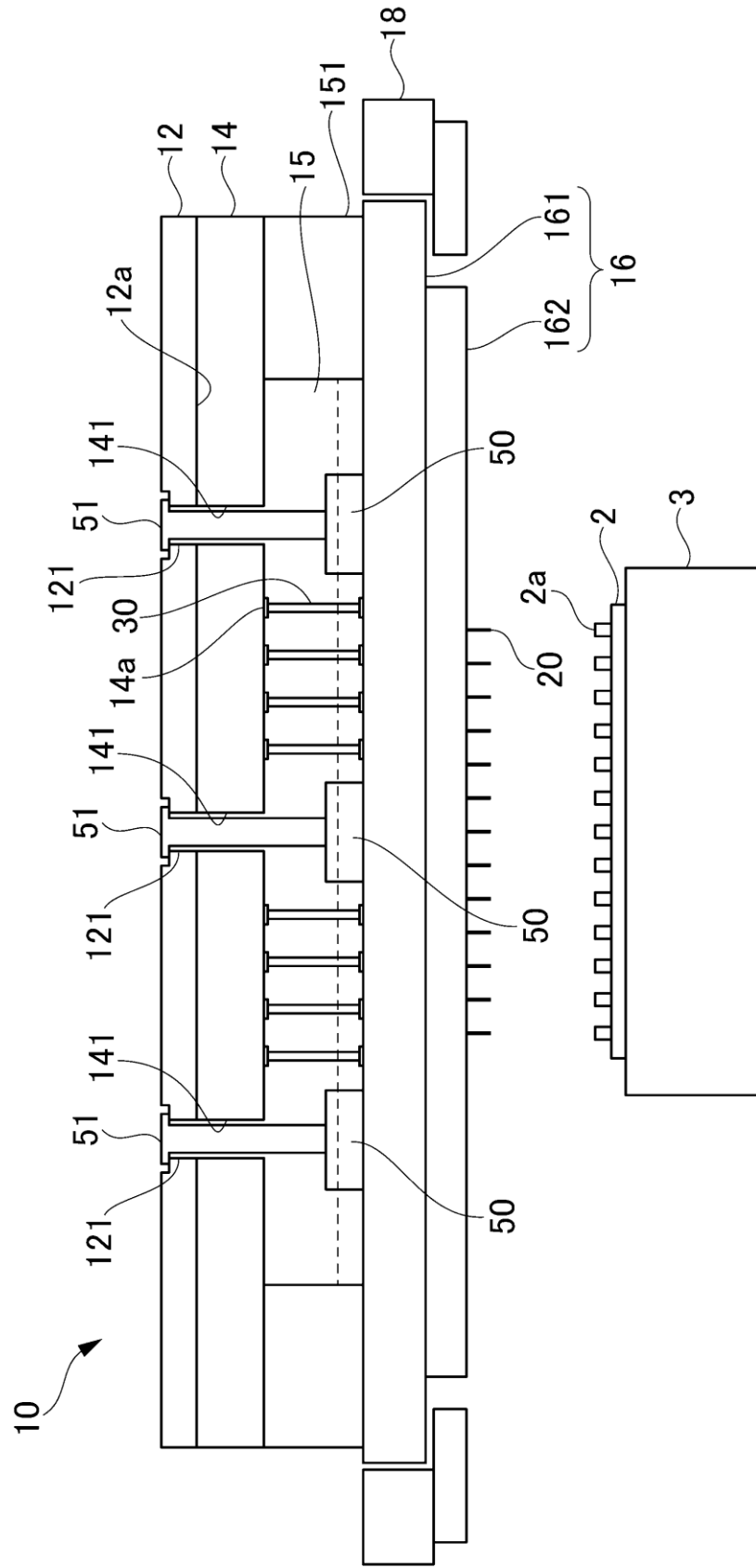


FIG. 1

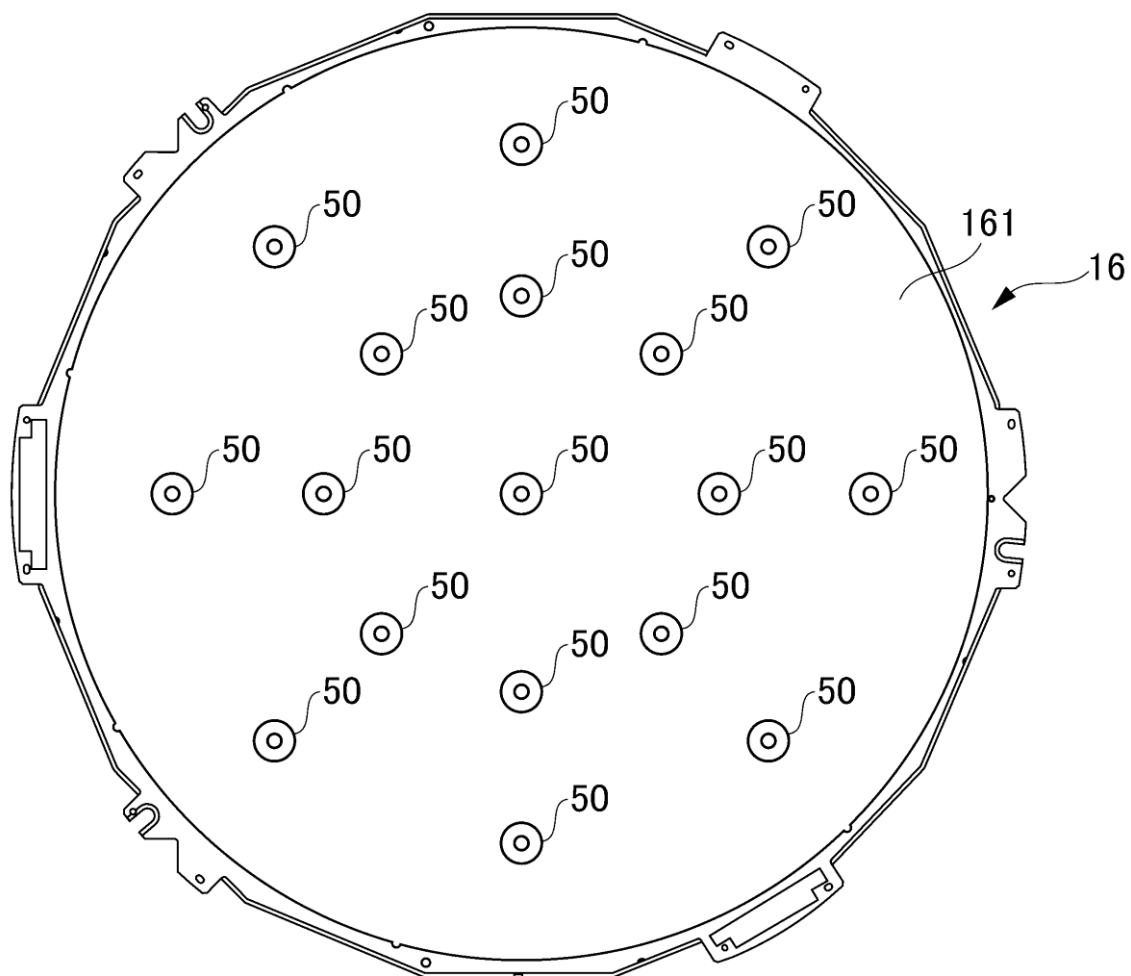


FIG. 2

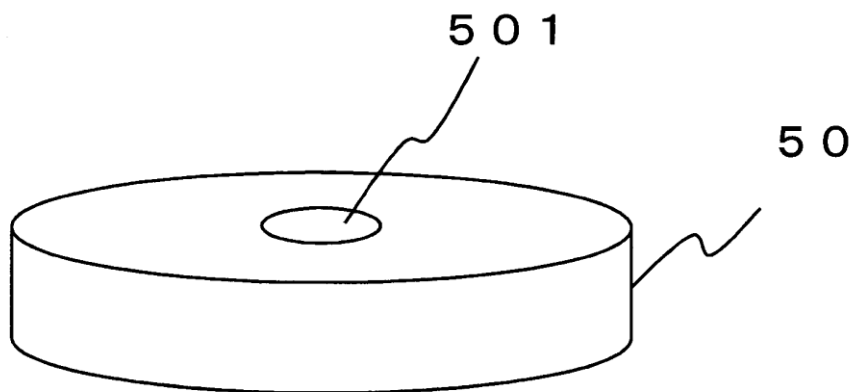


FIG. 3

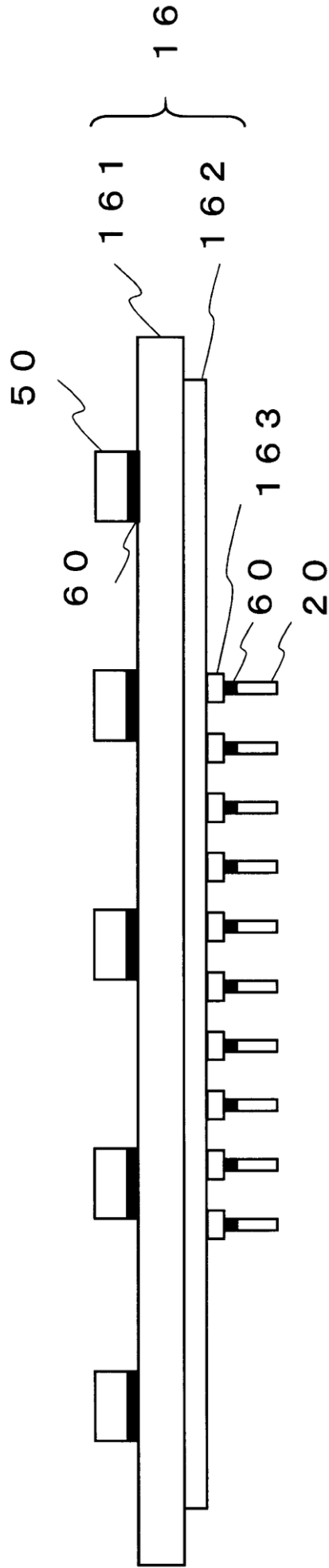


FIG. 4

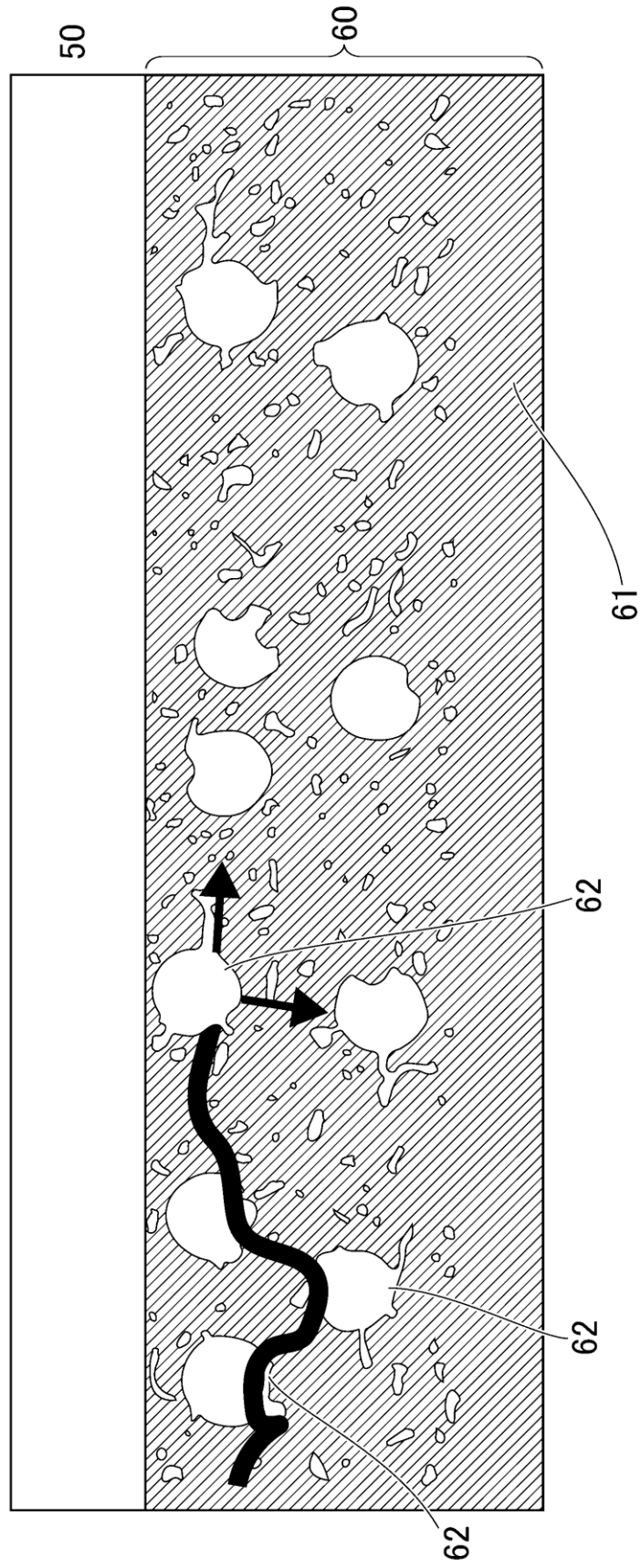
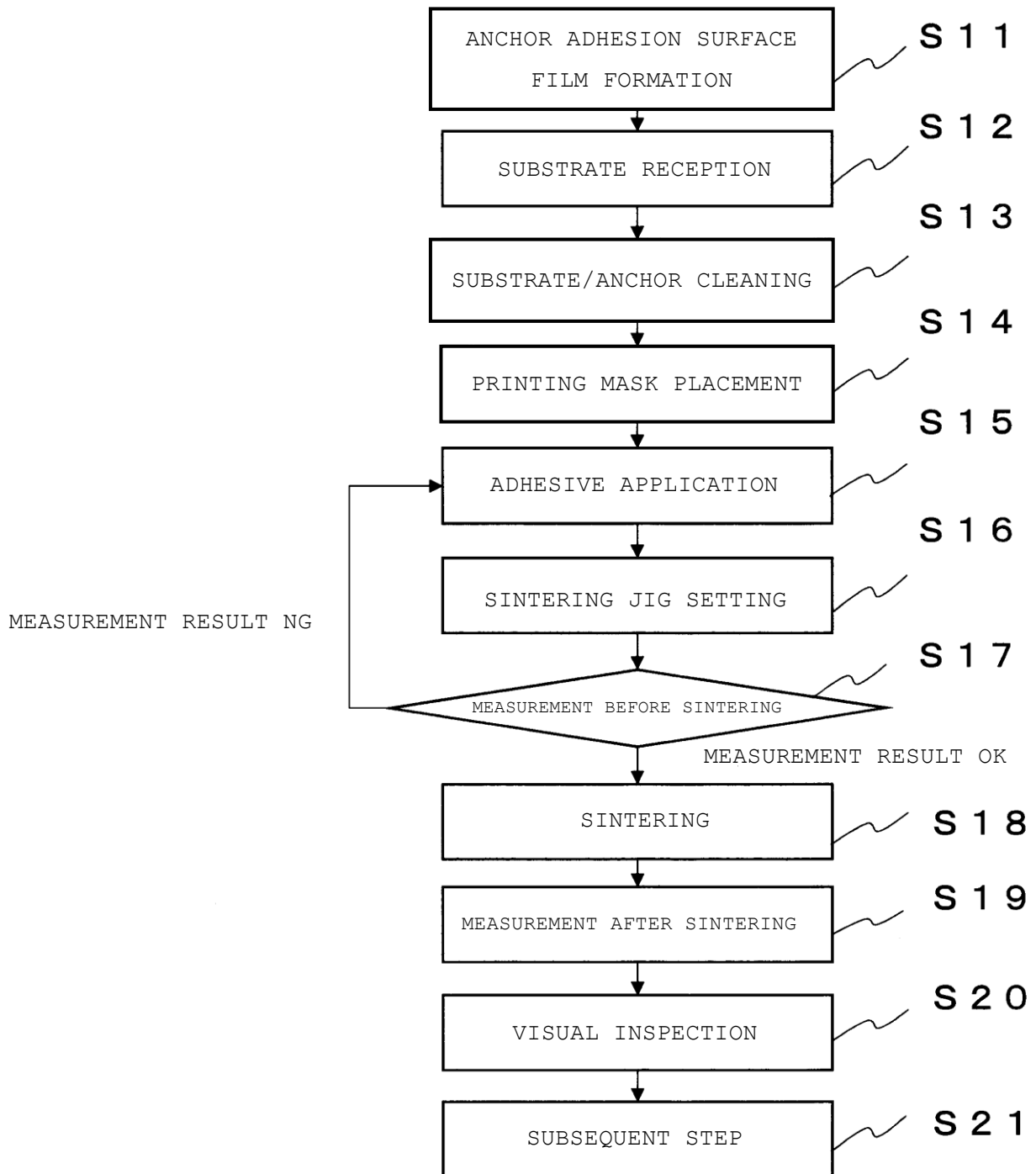
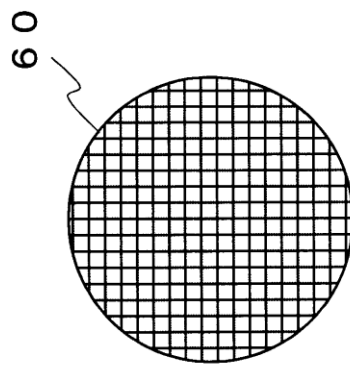


FIG. 5

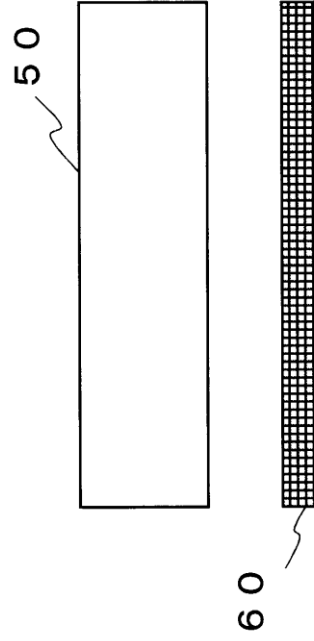
	METAL COMPONENT OF METAL LAYER		AREA (%) OCCUPIED BY METAL COMPONENT BY VERTICAL CROSS SECTION OBSERVATION ON JOINING SURFACE OF JOINT PORTION	AREA (%) OCCUPIED BY ORGANIC COMPONENT PARTS AND/OR VOIDS BY VERTICAL CROSS SECTION OBSERVATION ON JOINING SURFACE OF JOINT PORTION	SEPARATION TEST BY COOLING/HEATING CYCLES (RATIO (%) OF SEPARATION AREA)
	CONSTITUENT METAL	TRANSITION METAL CONTENT			
EXAMPLE 1	Ag	100at%	83	17	2
EXAMPLE 2	Ag	100at%	70	30	5
EXAMPLE 3	Ag	100at%	52	48	2
EXAMPLE 4	Ag	100at%	93	7	10
EXAMPLE 5	Ag, Cu	100at% (Ag : 70at%, Cu30at%)	80	20	5
EXAMPLE 6	Ag, Sn	90at% (Ag)	80	20	8
COMPARATIVE EXAMPLE 1	Ag, Sn	65at% (Ag)	75	25	50

FIG. 6

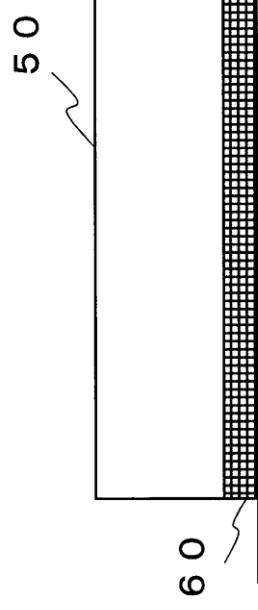
**FIG. 7**



(A)

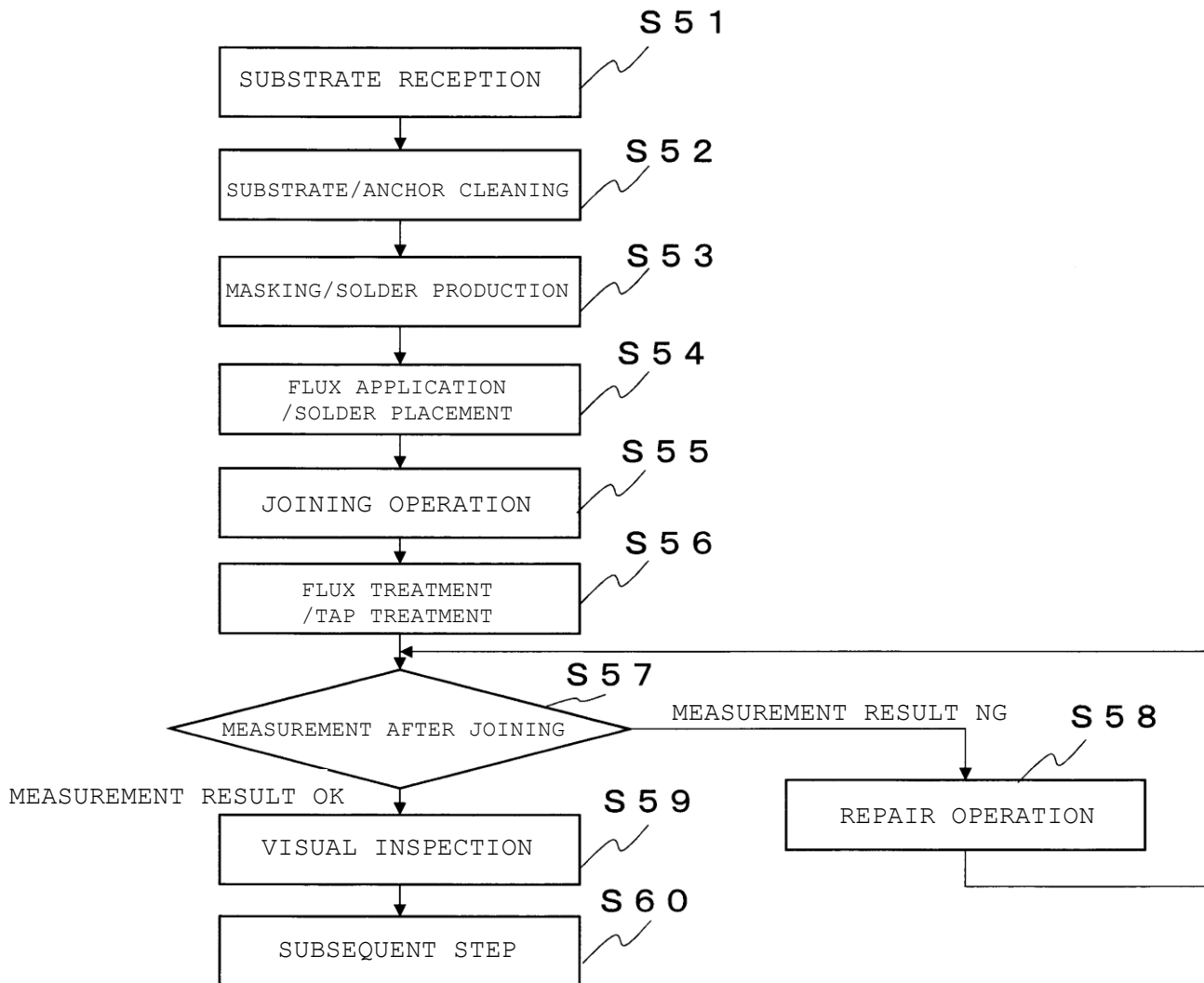


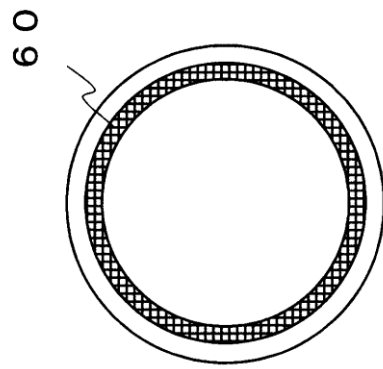
(B)



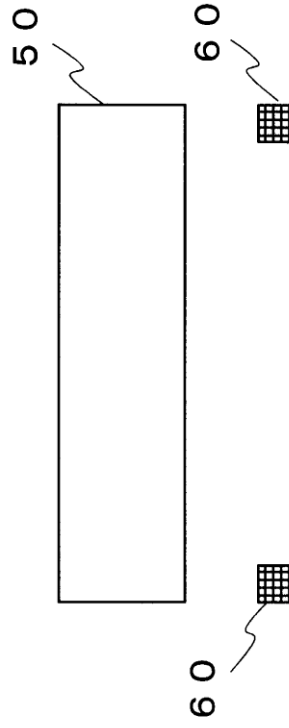
(C)

FIG. 8

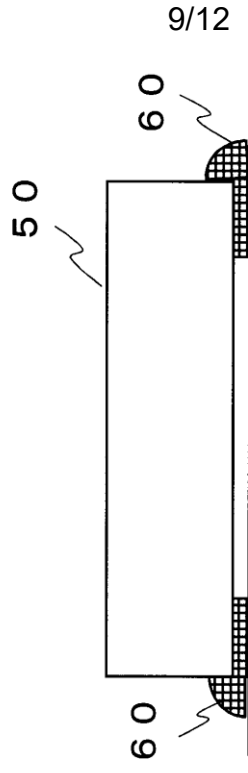
**FIG. 9**



(A)



(B)



(C)

FIG. 10

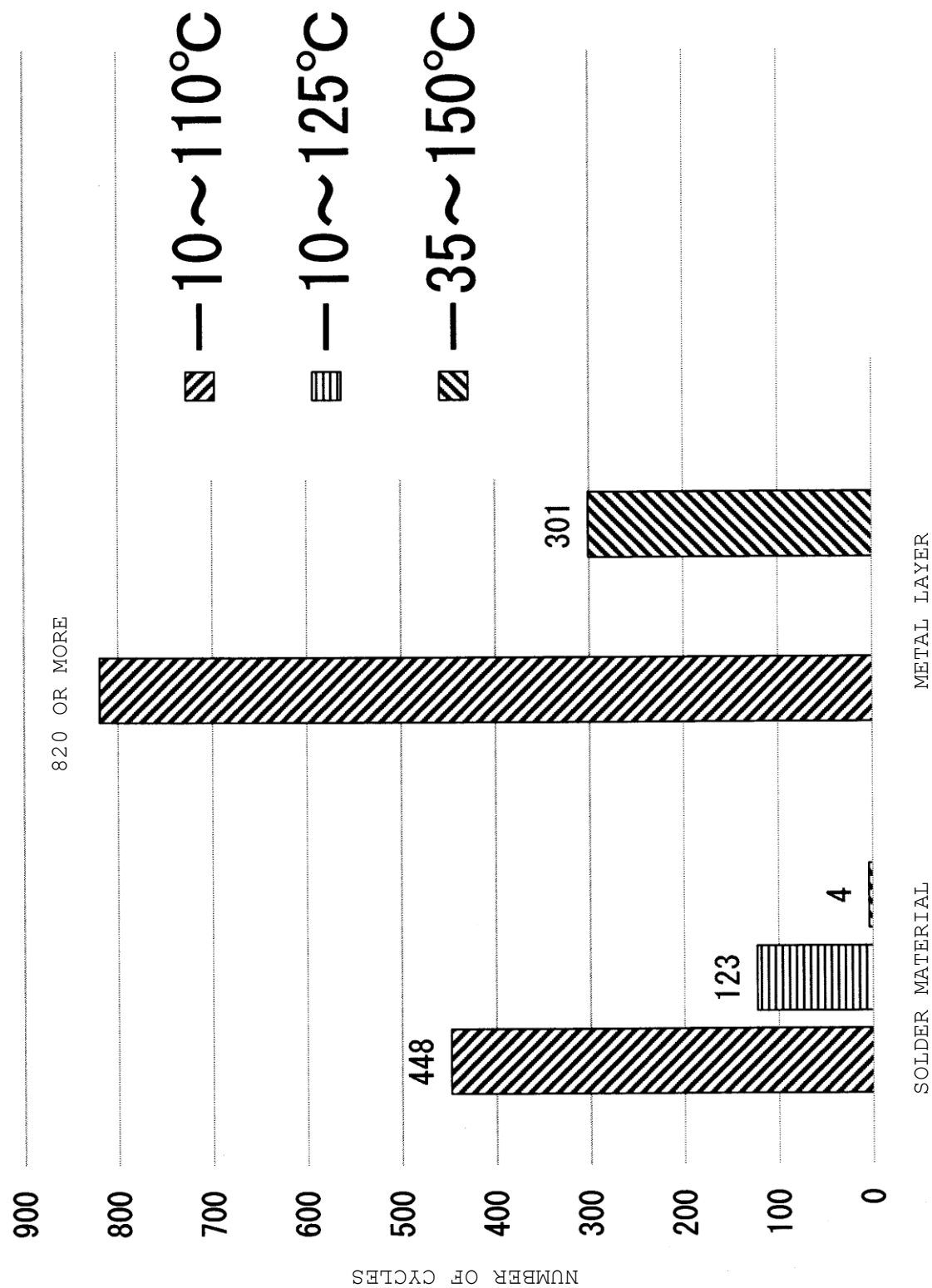


FIG. 11

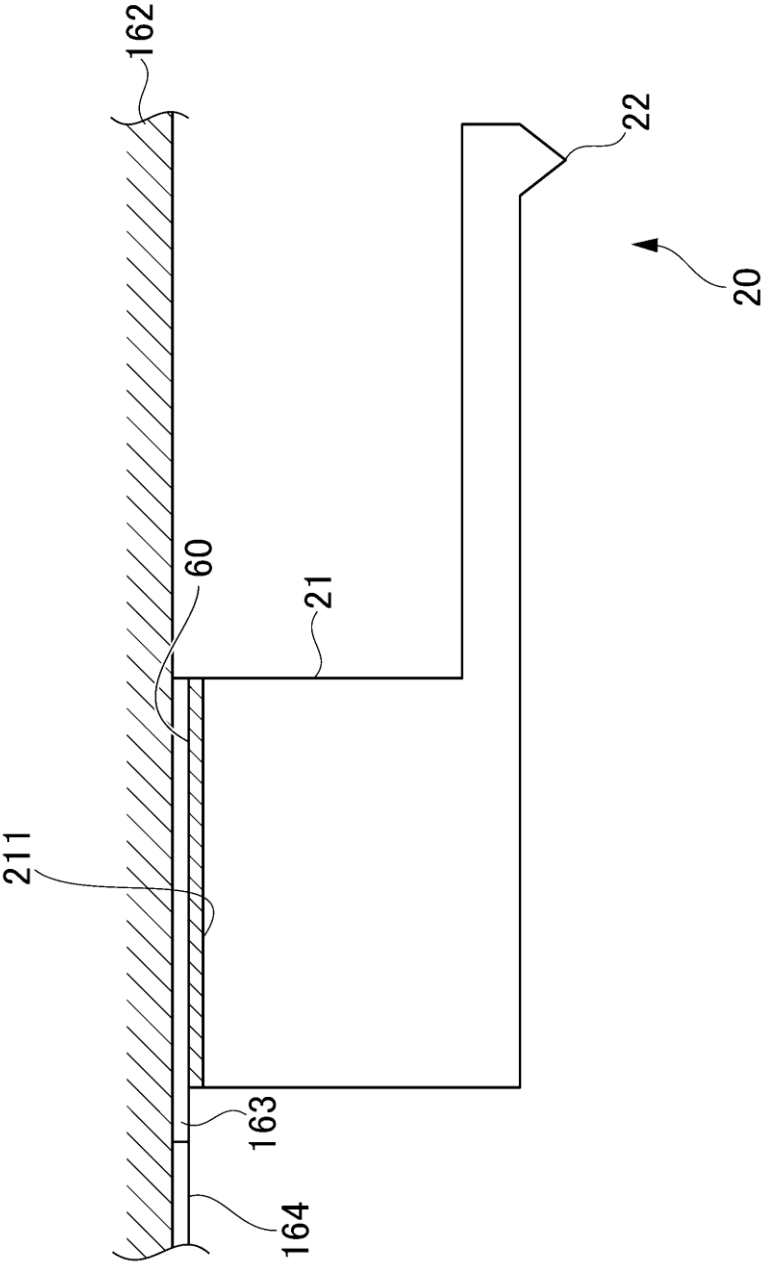


FIG. 12

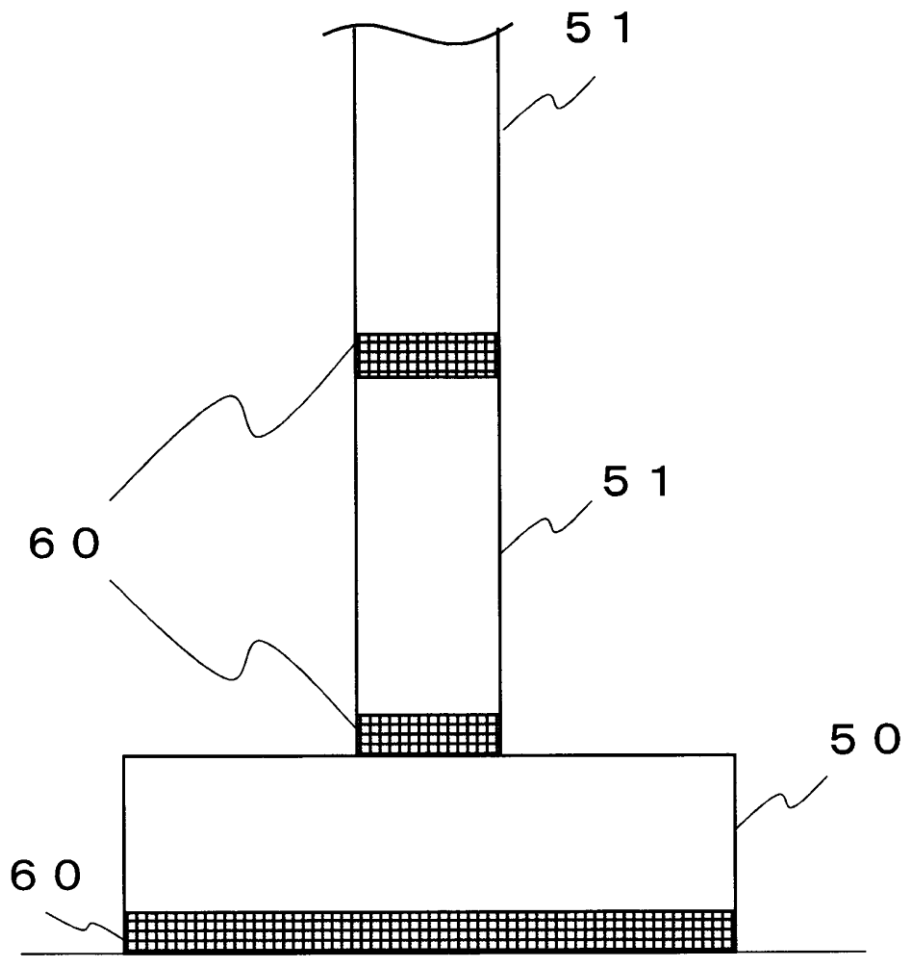


FIG. 13