

FIG. 1

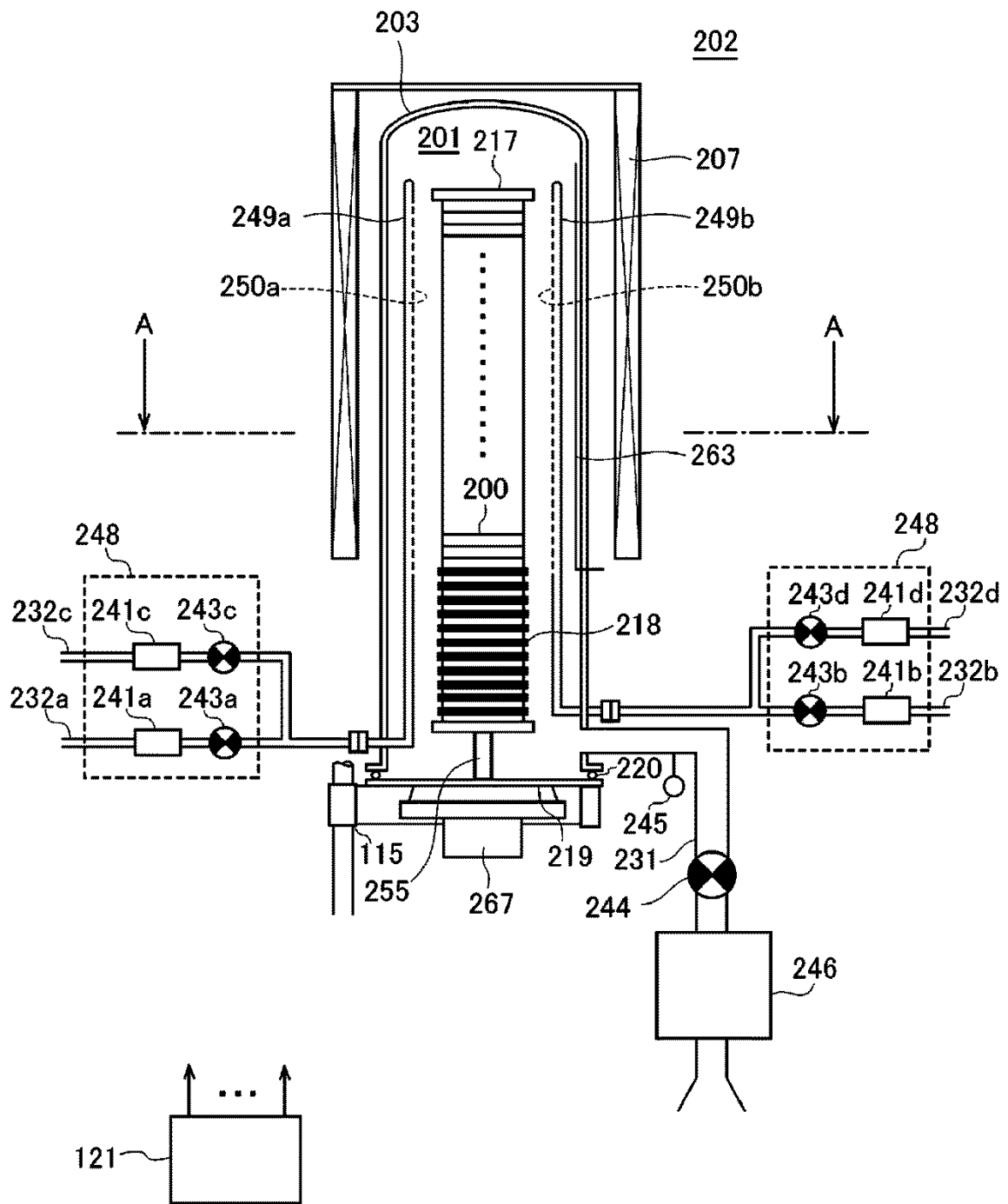
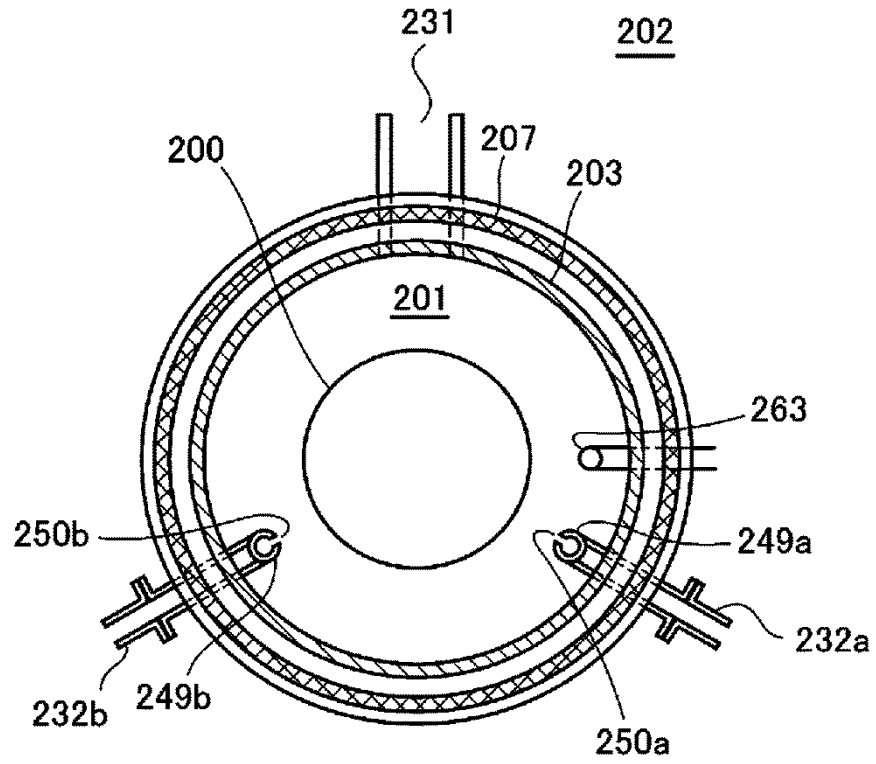


FIG. 2



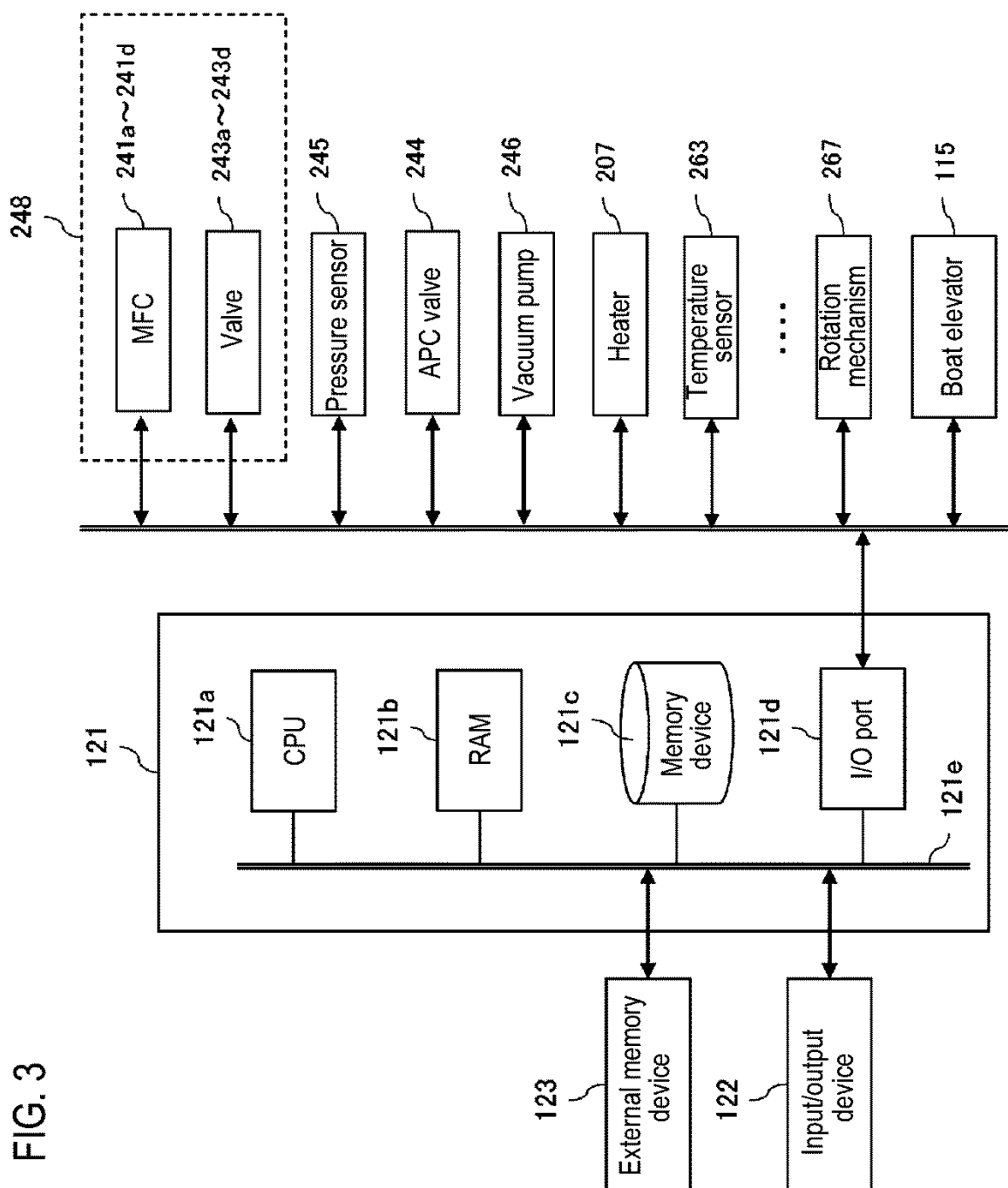


FIG. 4

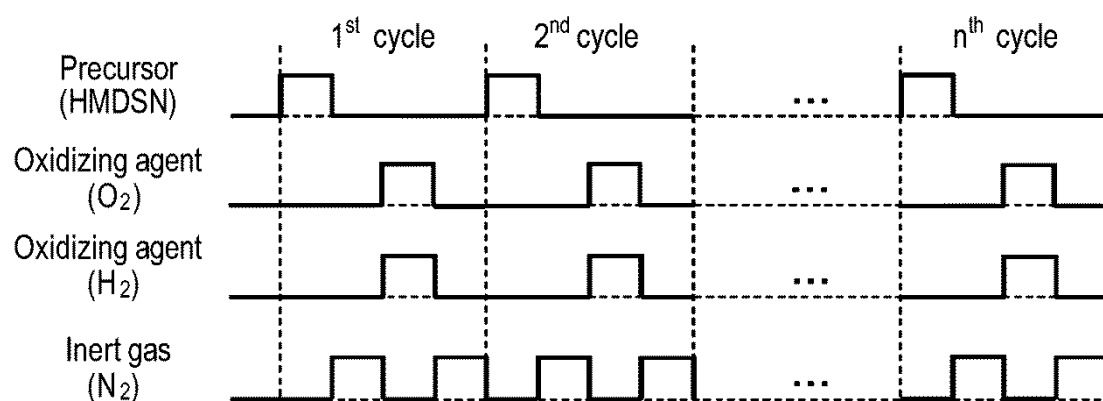


FIG. 5

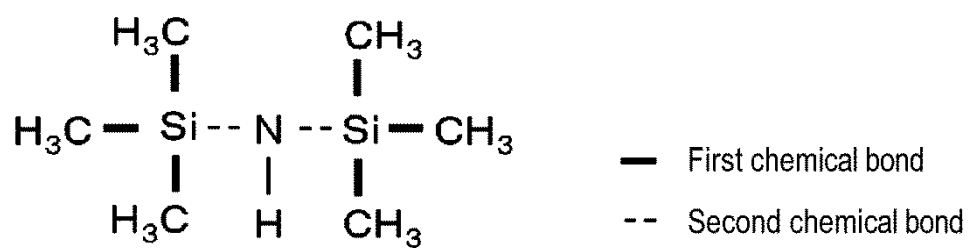


FIG. 6A

First chemical bond	Cutting temperature (first temperature)
$\text{Si} - \text{R}$	850°C
$\text{Si} - \text{OR}$	850°C

FIG. 6B

Second chemical bond (broken line)	Cutting temperature (second temperature)
$\text{Si} - - \text{O} - - \text{Si}$	750°C
$\begin{array}{c} \text{Si} - - \text{N} - - \text{Si} \\ \\ \text{H} \end{array}$	600°C
$\text{Si} - - \text{NR}_2$	550°C
$\text{Si} - - \text{H}$	500°C
$\text{Si} - - \text{Si}$	350°C

FIG. 7

Example of Si-containing compound	The number of first chemical bonds	The number of second chemical bonds	Ratio X (the number of first chemical bonds/the number of second chemical bonds)
$R_3Si-SiR_3$	6	1	6
$(OR)_3Si-Si(OR)_3$	6	1	6
$R_3Si-NH-SiR_3$	6	2	3
$(OR)_3Si-NH-Si(OR)_3$	6	2	3
$R_3Si-O-SiR_3$	6	2	3
$(OR)_3Si-O-Si(OR)_3$	6	2	3
$SiHR_3$	3	1	3
$SiH(OR)_3$	3	1	3
$Si(NR_2)R_3$	3	1	3
$Si(NR_2)(OR)_3$	3	1	3
$R_2HSi-O-SiHR_2$	4	4	1
$R_2N-SiH_2-NR_2$	0	4	0

FIG. 8A

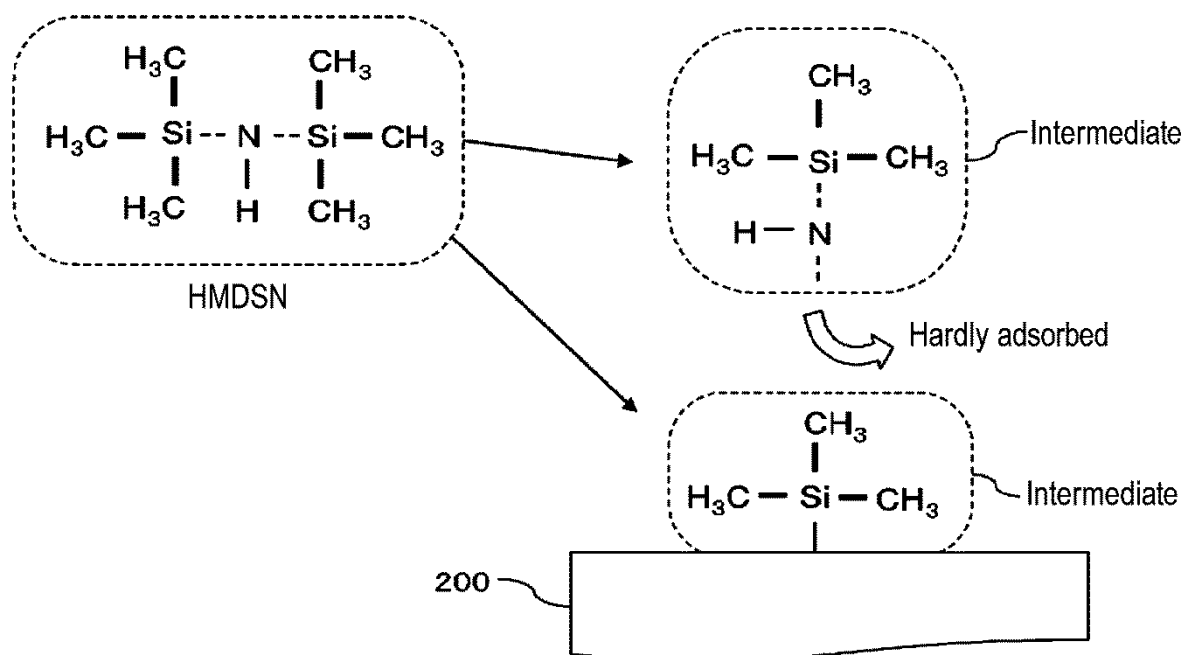


FIG. 8B

