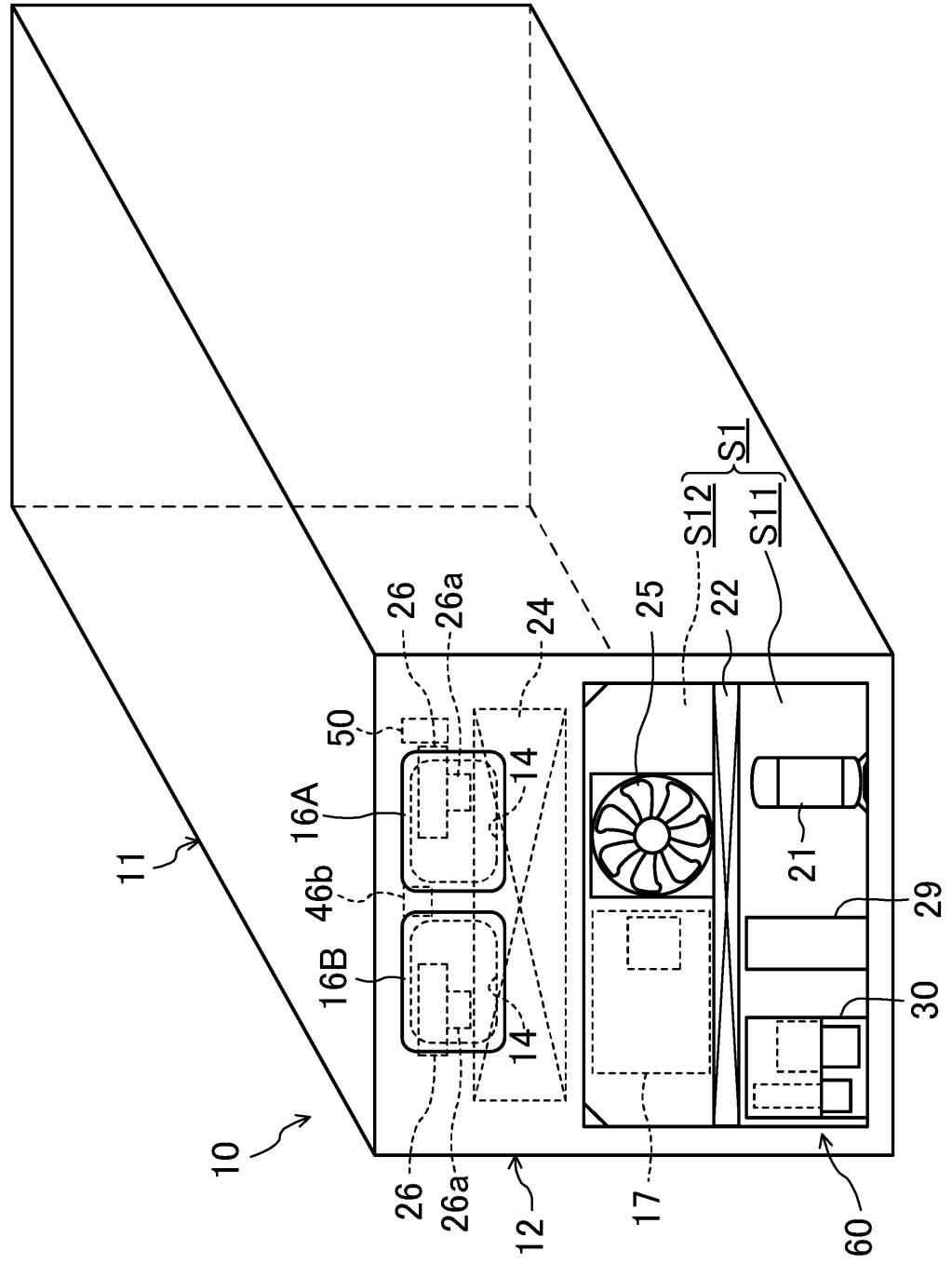


FIG.1



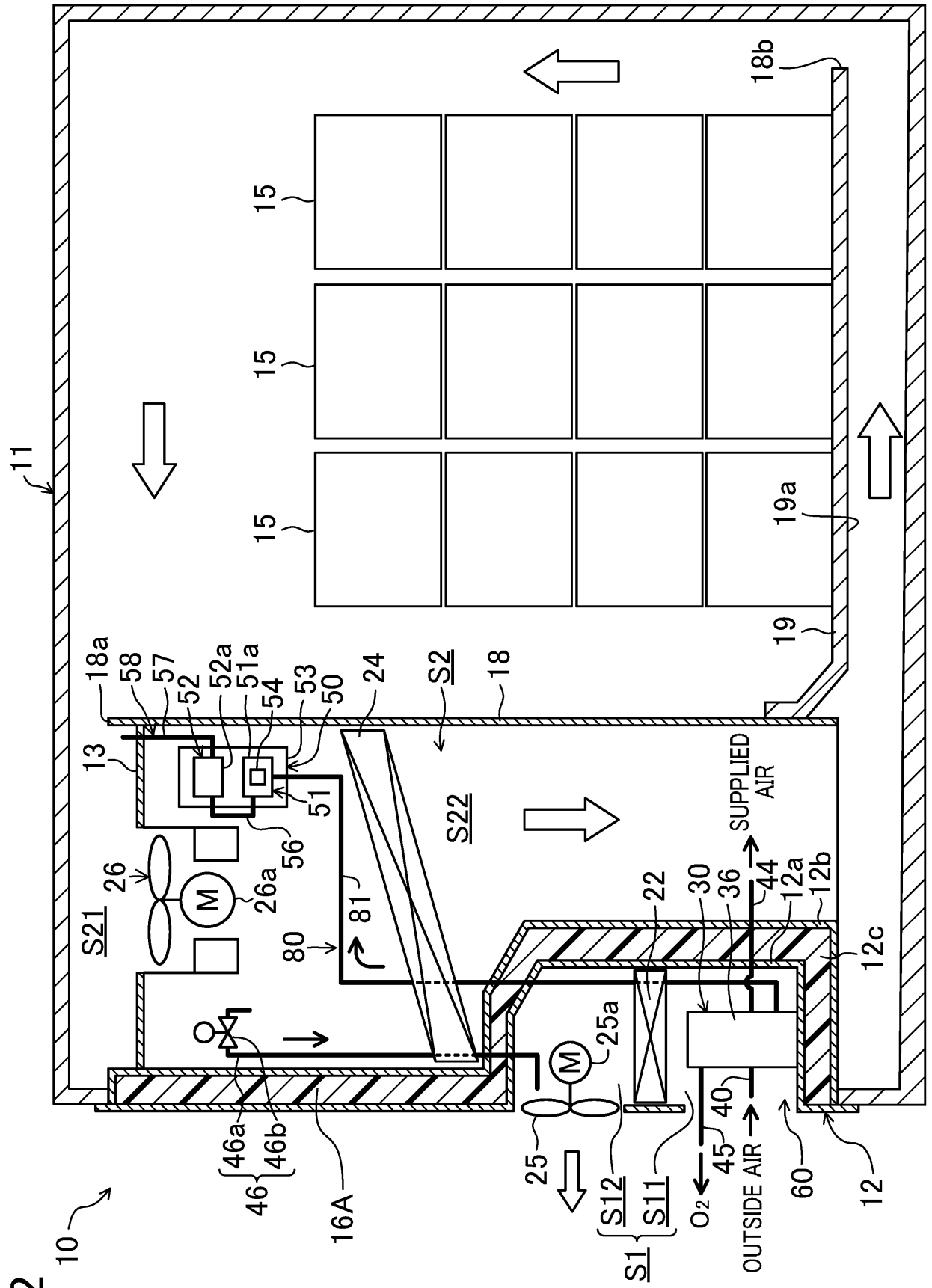


FIG.3

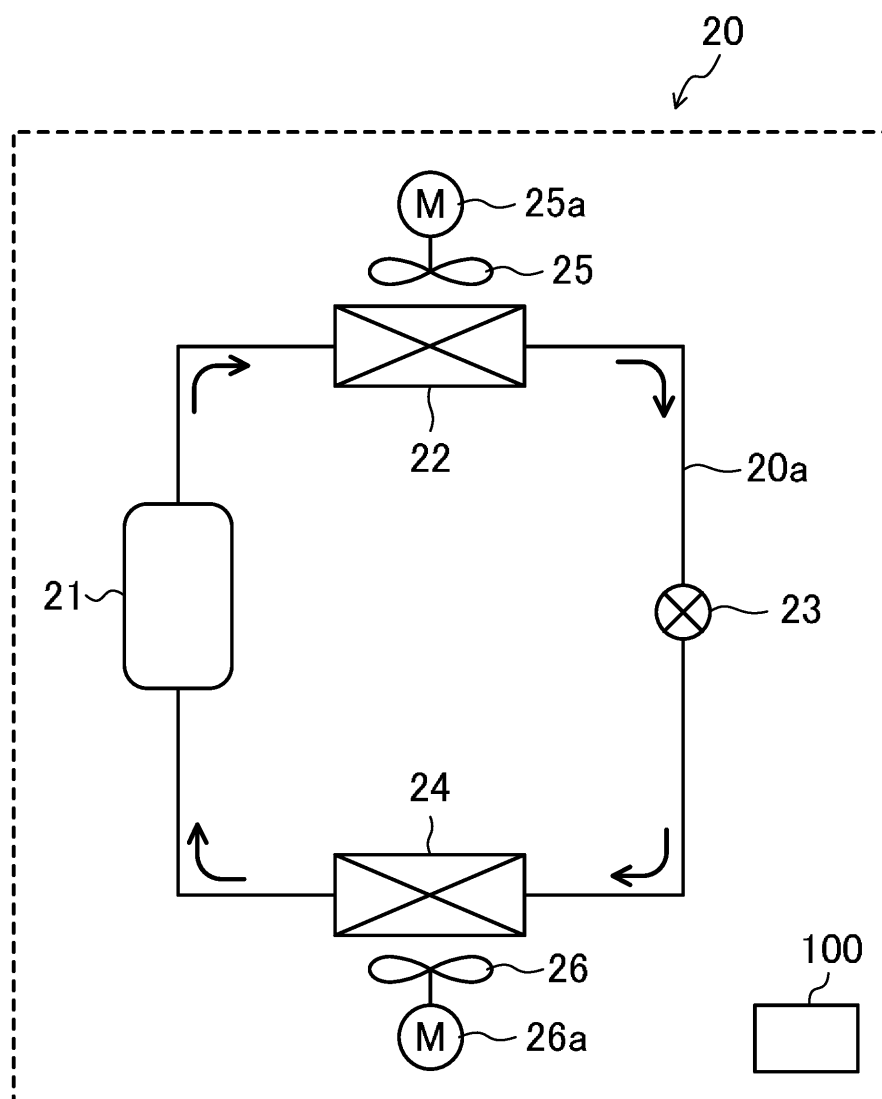


FIG. 4

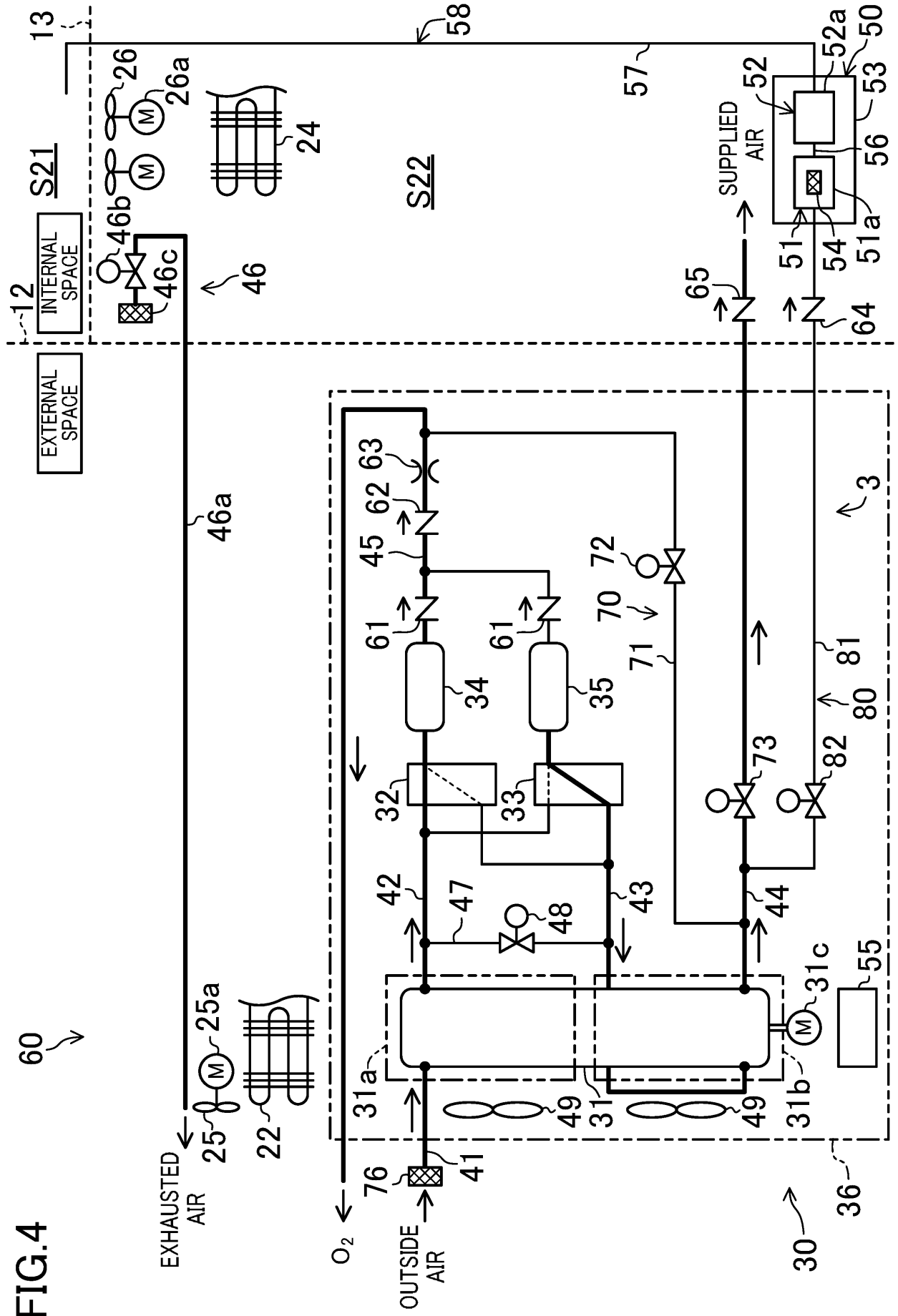


FIG.5

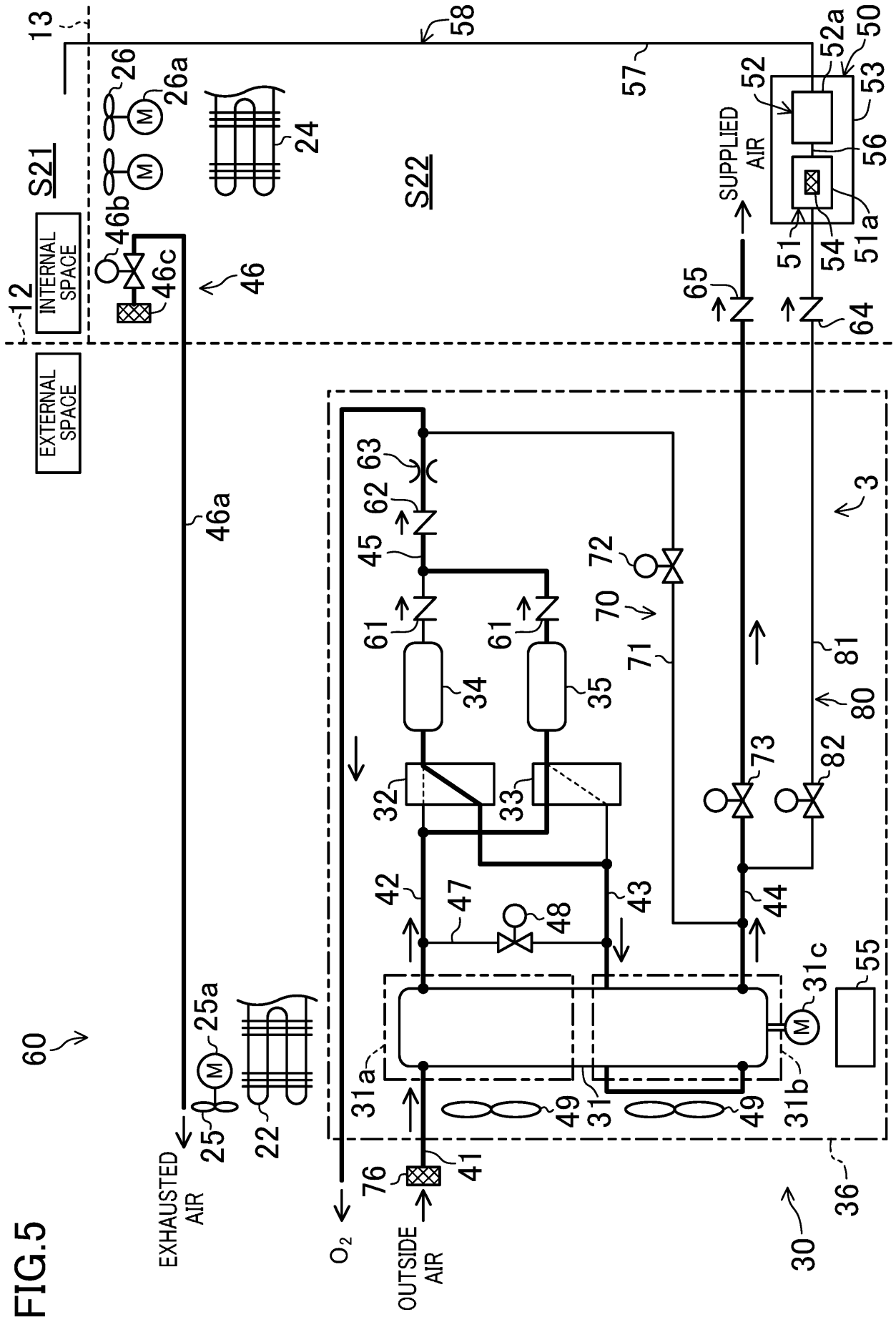
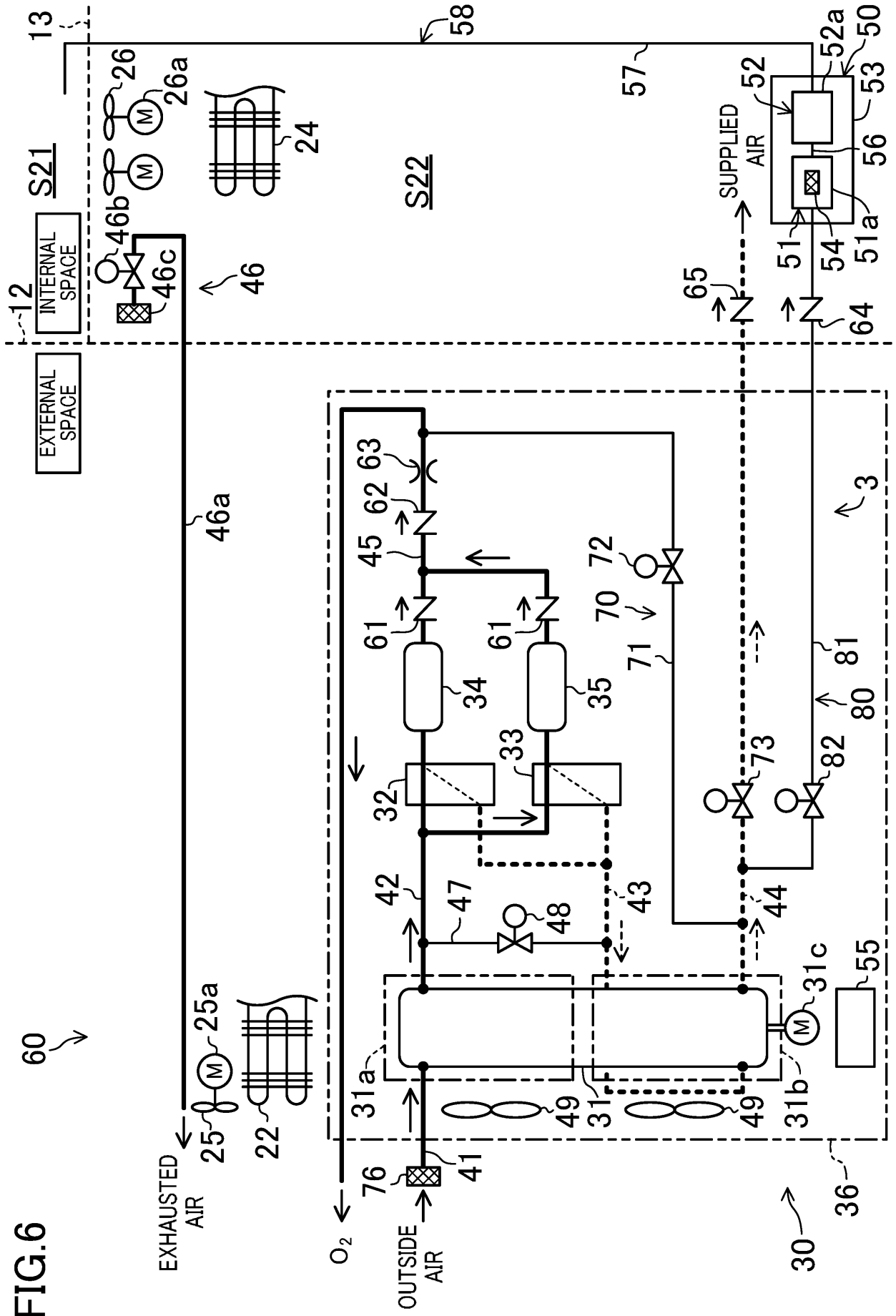


FIG.6



60 →



OPERATION	FIRST OPERATION	PRESSURE EQUALIZATION OPERATION	SECOND OPERATION	PRESSURE EQUALIZATION OPERATION
FIRST DIRECTIONAL CONTROL VALVE	FIRST STATE		SECOND STATE	FIRST STATE
SECOND DIRECTIONAL CONTROL VALVE	FIRST STATE	SECOND STATE		
FIRST ADSORPTION COLUMN	PRESSURIZED/ADSORB	PRESSURIZED/ ADSORB	DEPRESSURIZED/DESORB	PRESSURIZED/ ADSORB
SECOND ADSORPTION COLUMN	DEPRESSURIZED/DESORB	PRESSURIZED/ ADSORB	PRESSURIZED/ADSORB	PRESSURIZED/ ADSORB

FIG.9

OPERATION	FIRST OPERATION		PRESSURE EQUALIZATION OPERATION	SECOND OPERATION		PRESSURE EQUALIZATION OPERATION
EXHAUST ON-OFF VALVE	OPEN	CLOSE		OPEN	CLOSE	
SUPPLY ON-OFF VALVE	CLOSE	OPEN		CLOSE	OPEN	
LOW OXYGEN CONCENTRATION AIR	EXHAUST	SUPPLY		EXHAUST	SUPPLY	
	← t →			← t →		

FIG.10

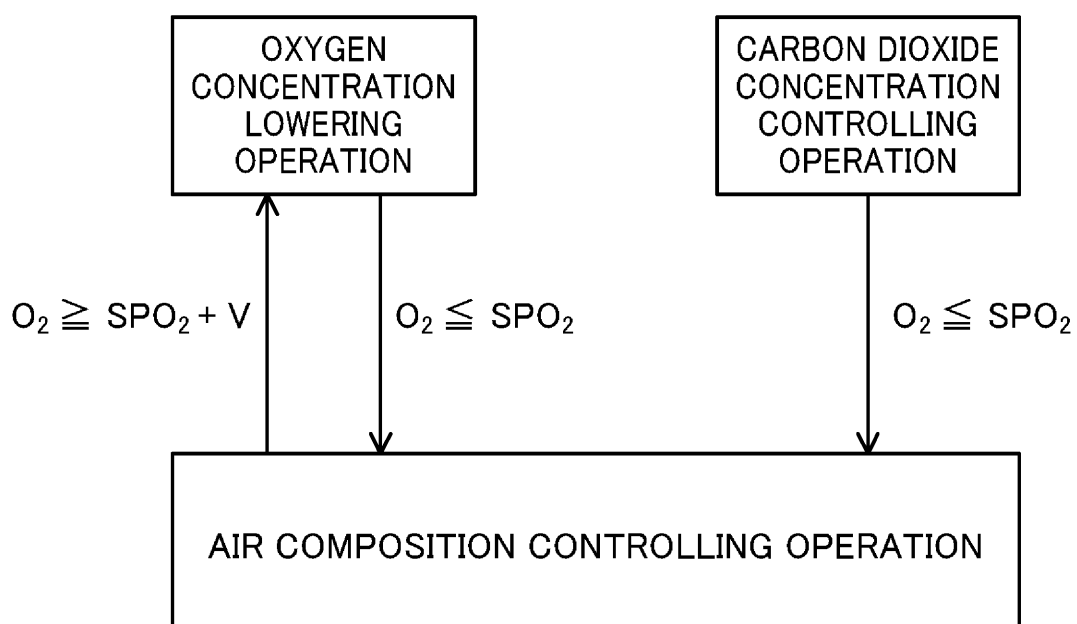
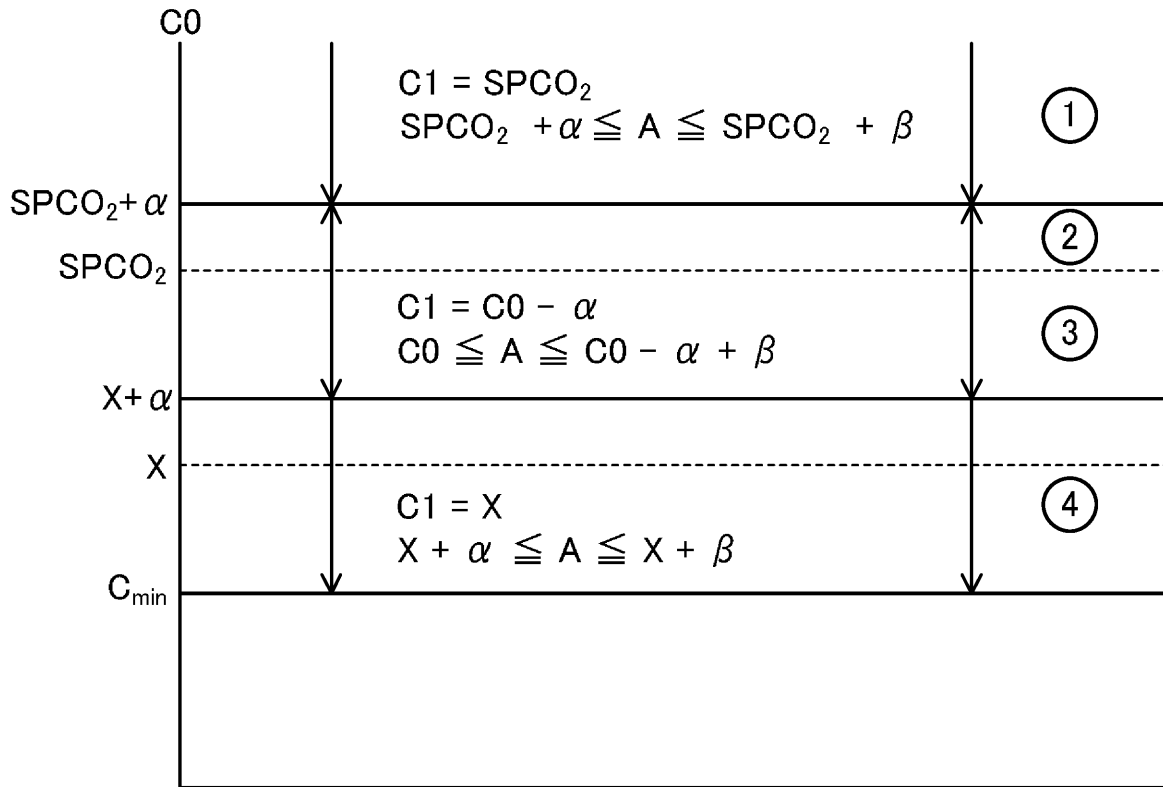


FIG.11



C_0 : INITIAL CONCENTRATION

C_1 : STARTING CONCENTRATION

X : ALLOWABLE CONCENTRATION

$SPCO_2$: TARGET CARBON DIOXIDE CONCENTRATION

$X + \alpha$: FIRST LOW CONCENTRATION

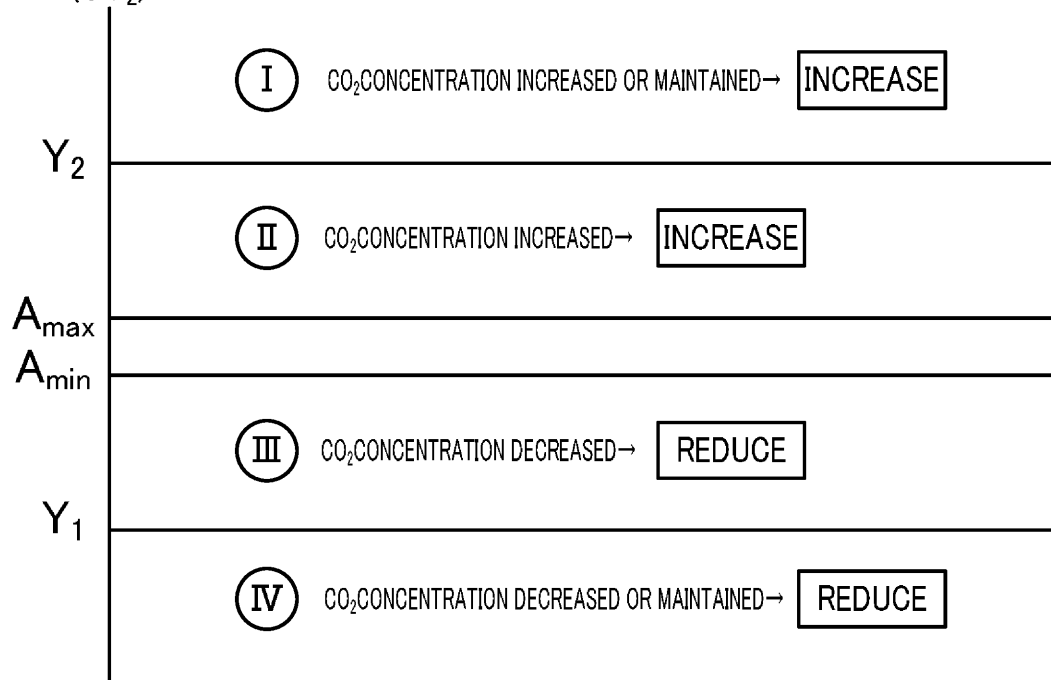
$SPCO_2 + \alpha$: FIRST HIGH CONCENTRATION

A : REFERENCE CONCENTRATION RANGE

$$\begin{cases} C_1 = C_0 - \alpha \\ X \leq C_1 \leq SPCO_2 \\ C_1 + \alpha \leq A \leq C_1 + \beta \end{cases}$$

FIG.12

CURRENT CONCENTRATION
(CO₂)



A : REFERENCE CONCENTRATION RANGE

A_{min} : LOWER LIMIT OF REFERENCE CONCENTRATION RANGE

A_{max} : UPPER LIMIT OF REFERENCE CONCENTRATION RANGE

Y₁ : SECOND LOW CONCENTRATION

Y₂ : SECOND HIGH CONCENTRATION

FIG.13

	$A_{\min}$	$A_{\max}$	Y_1	Y_2
①	$\text{SPCO}_2 + \alpha$	$\text{SPCO}_2 + \beta$	SPCO_2	$\text{SPCO}_2 + \gamma$
②	C_0	$C_0 - \alpha + \beta$	$C_0 - \alpha$	$C_0 - \alpha + \gamma$
③	C_0	$C_0 - \alpha + \beta$	$C_0 - \alpha$	SPCO_2
④	$X + \alpha$	$X + \beta$	X	SPCO_2

FIG.14



FIG.15

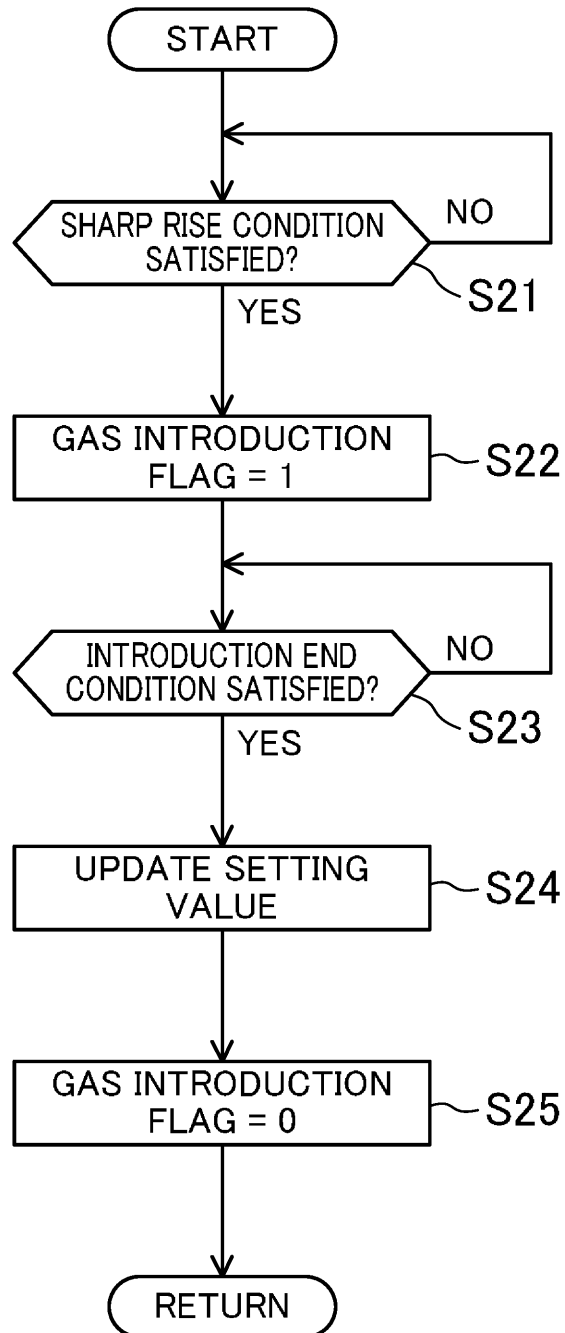


FIG.16