

Fig.1

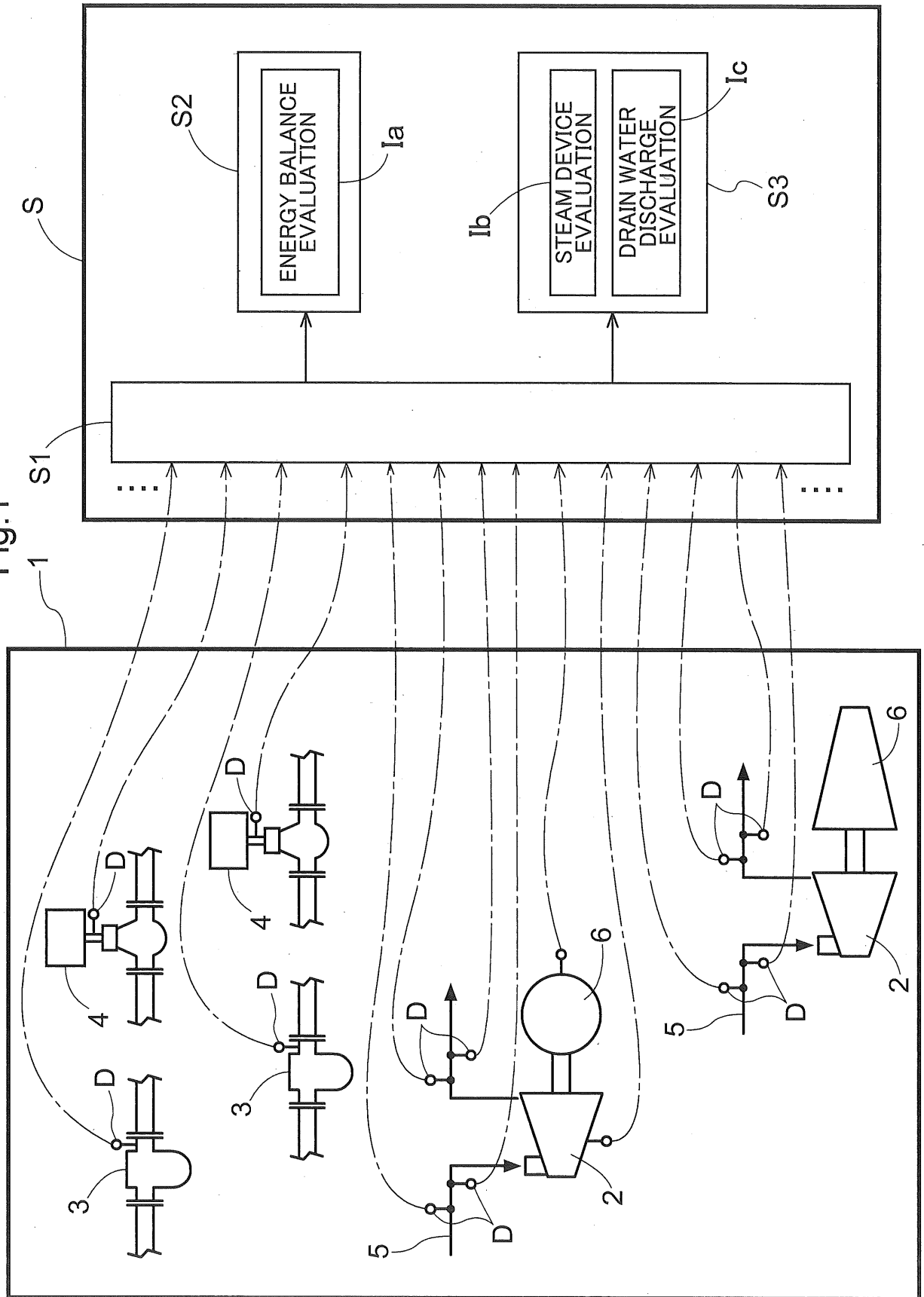


Fig.2

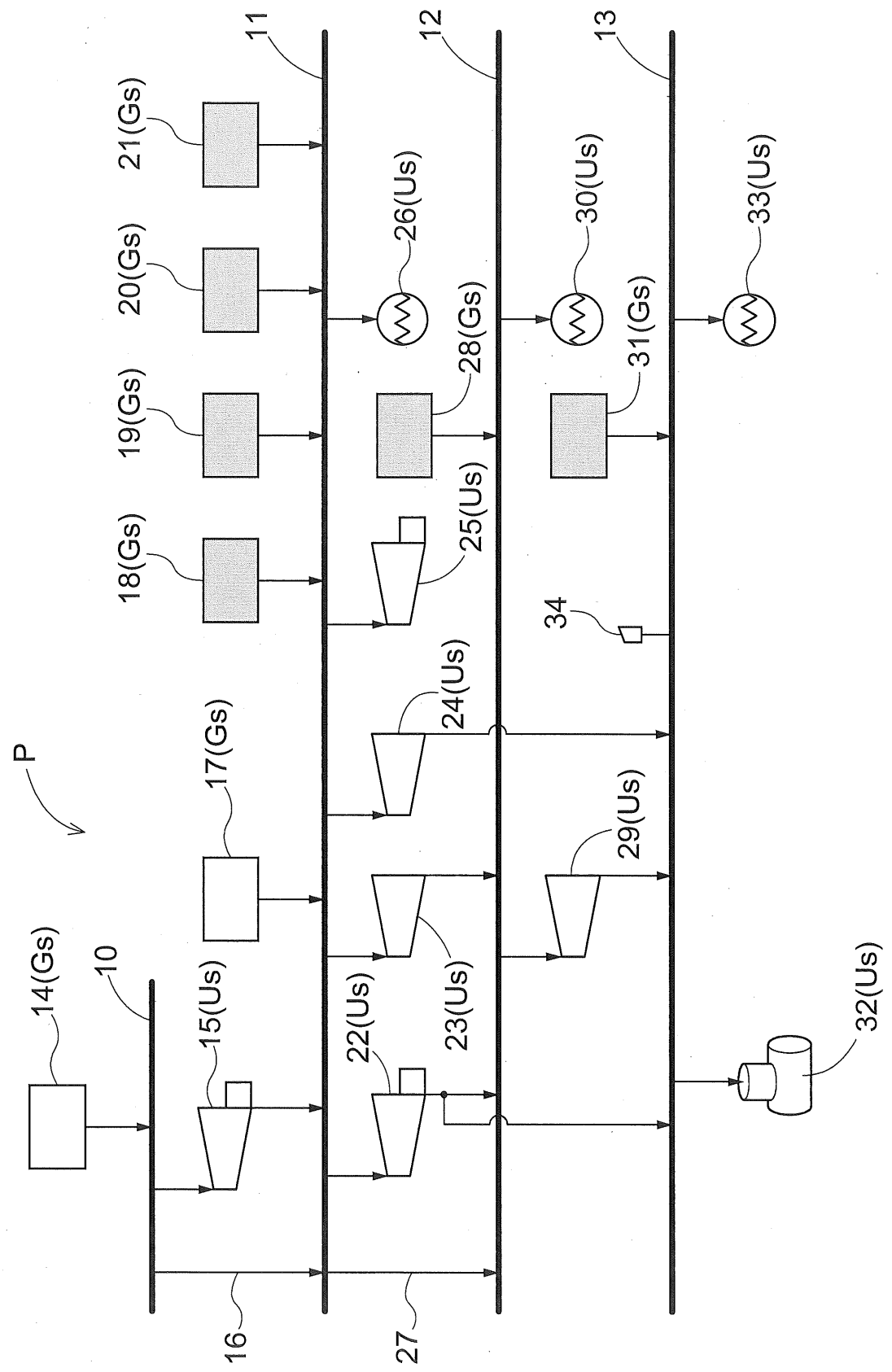


Fig.3

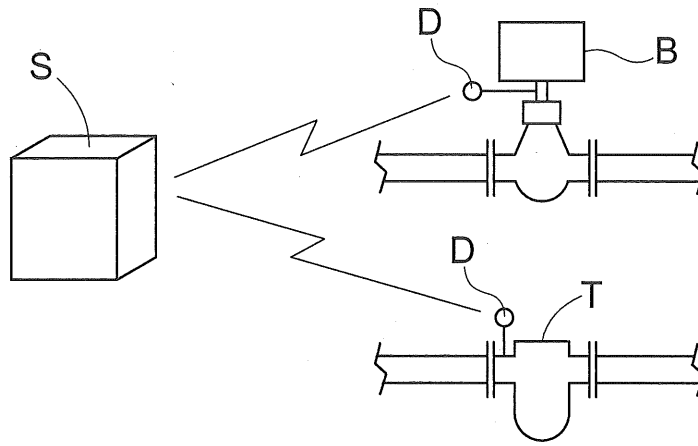


Fig.4

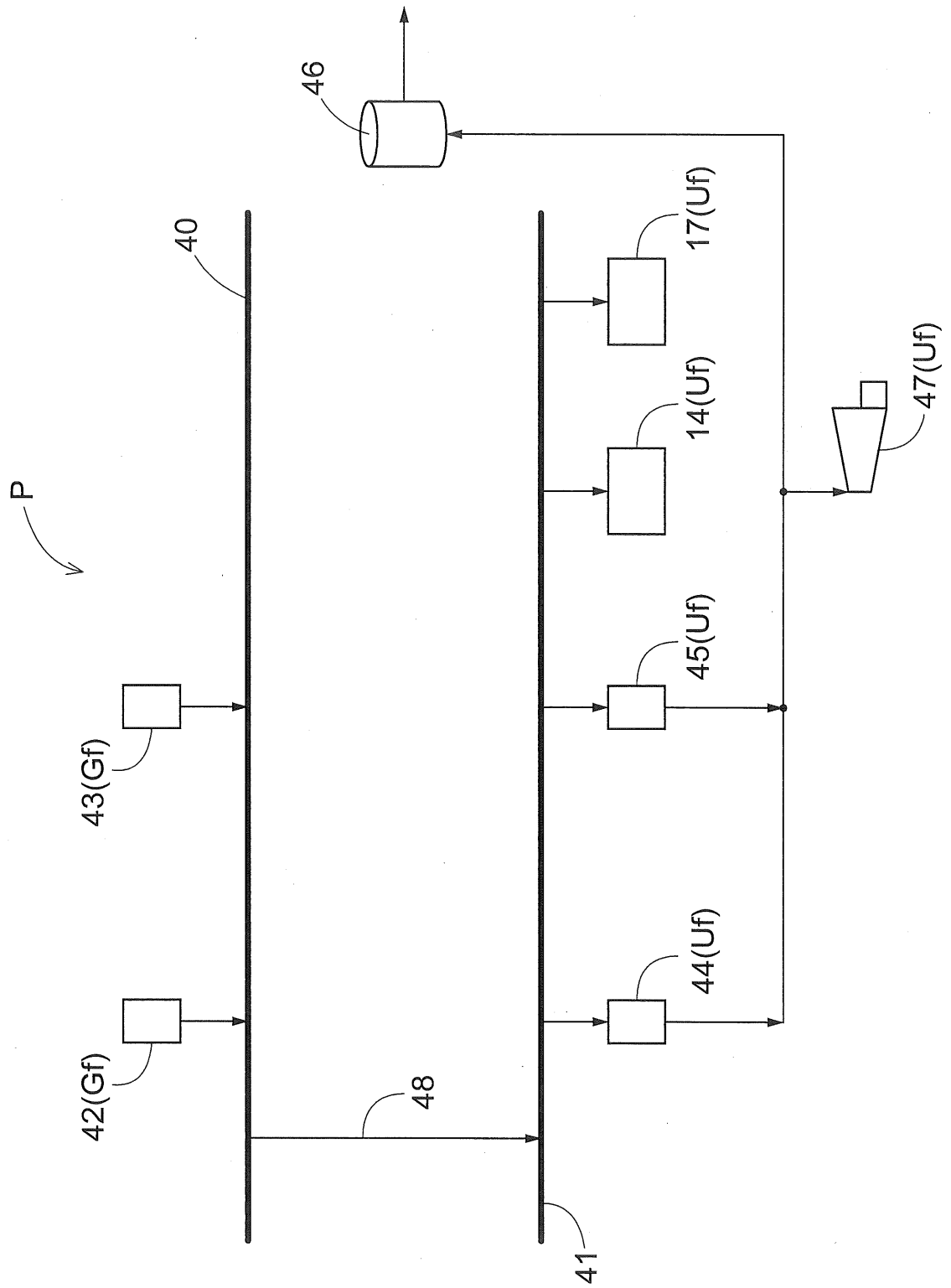


Fig.5

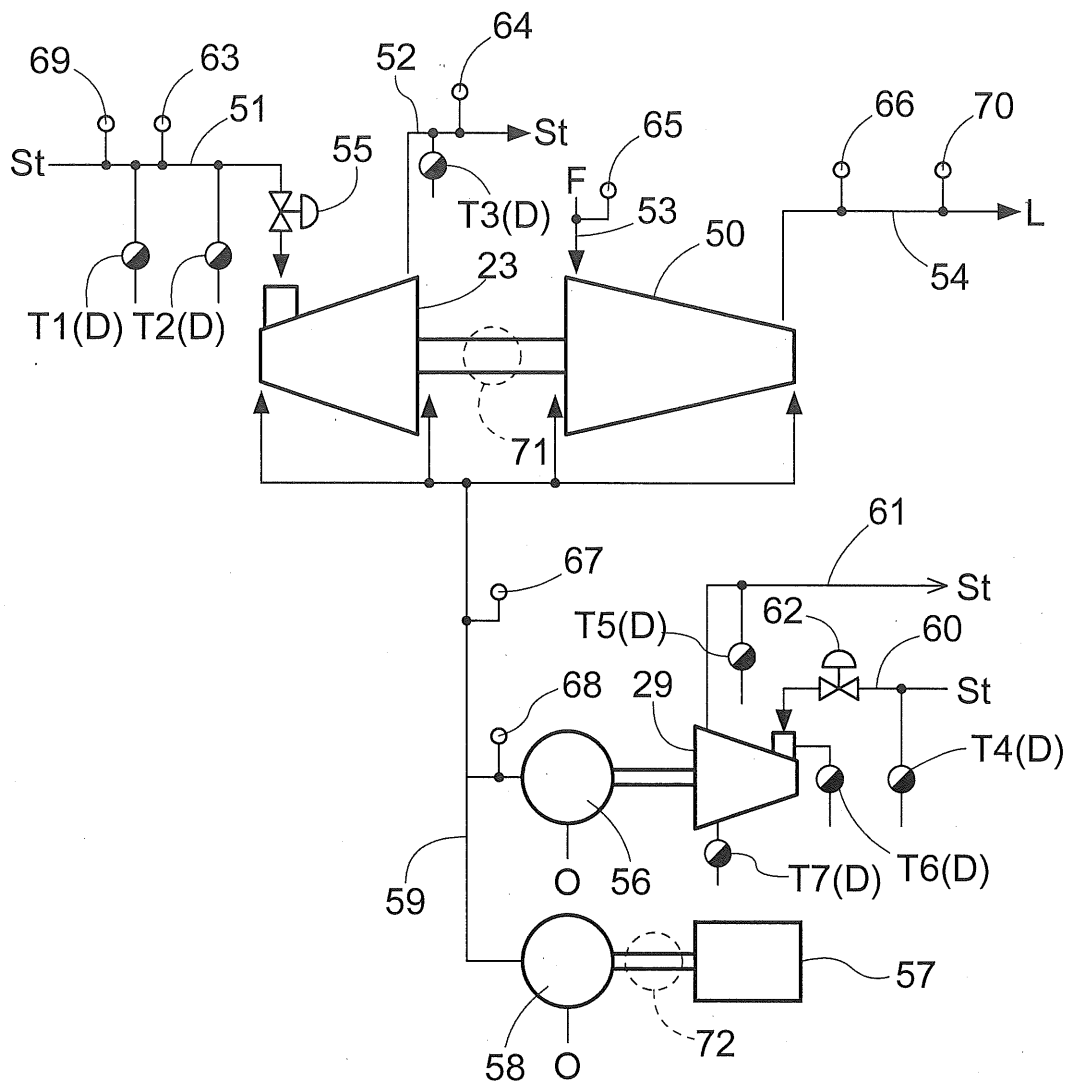


Fig.6

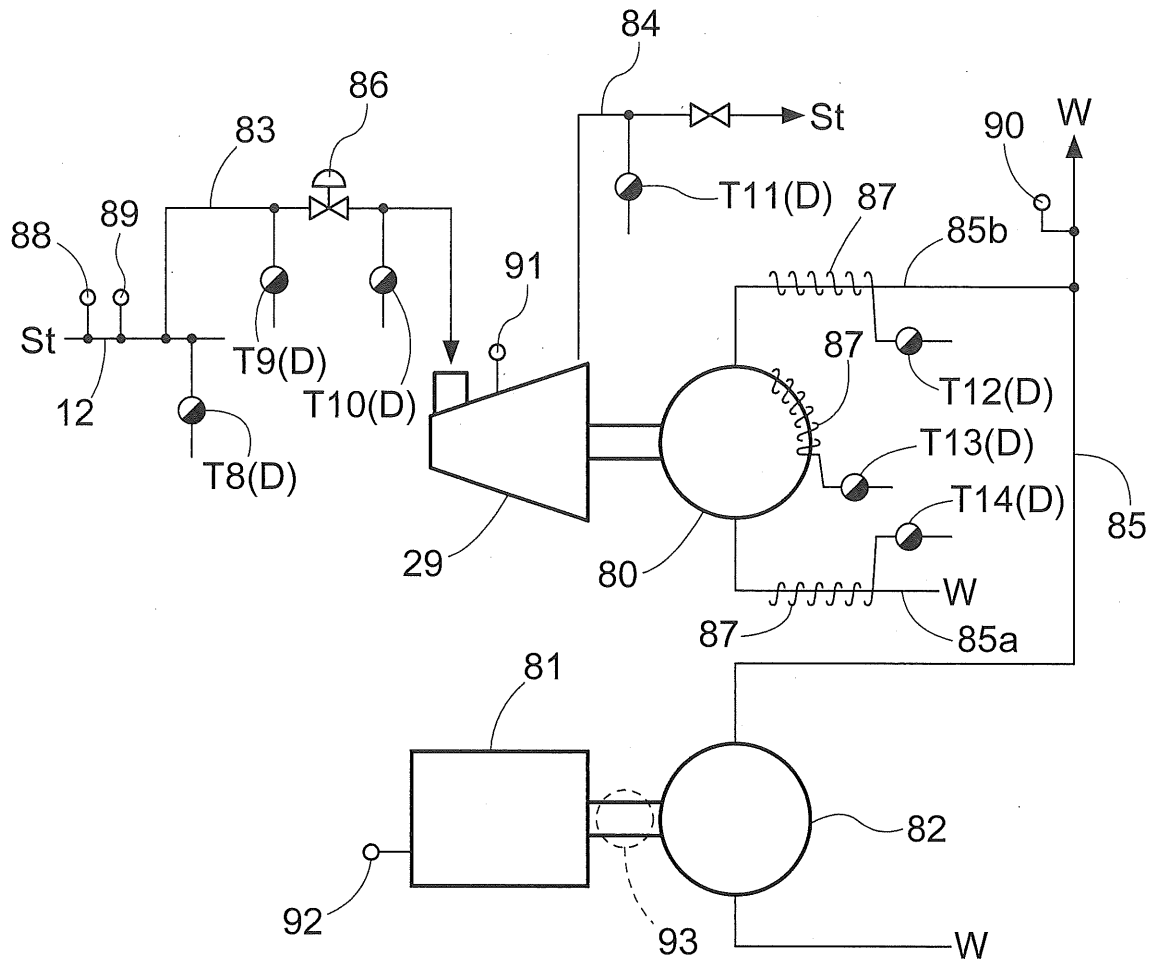


Fig.7

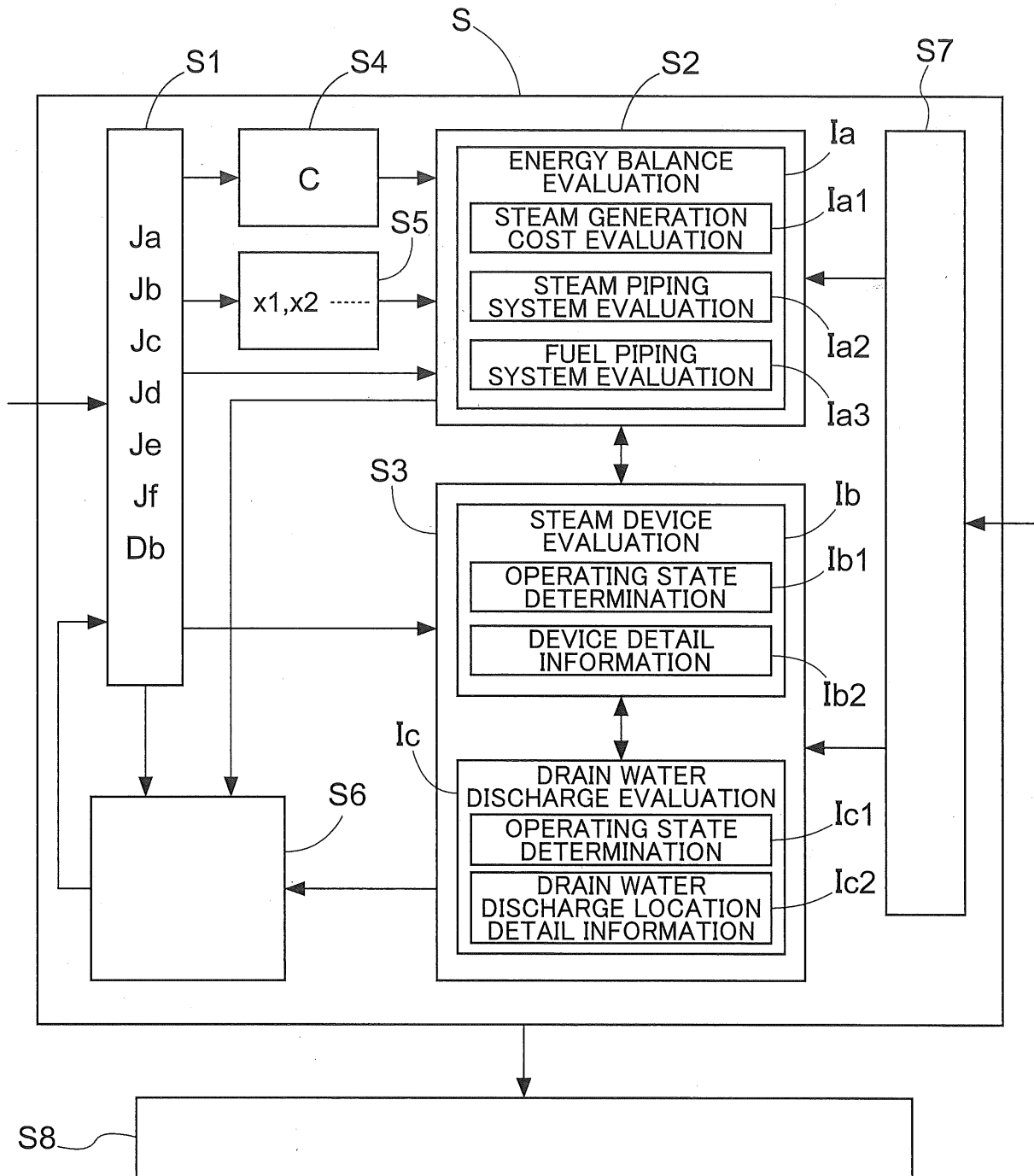


Fig.8

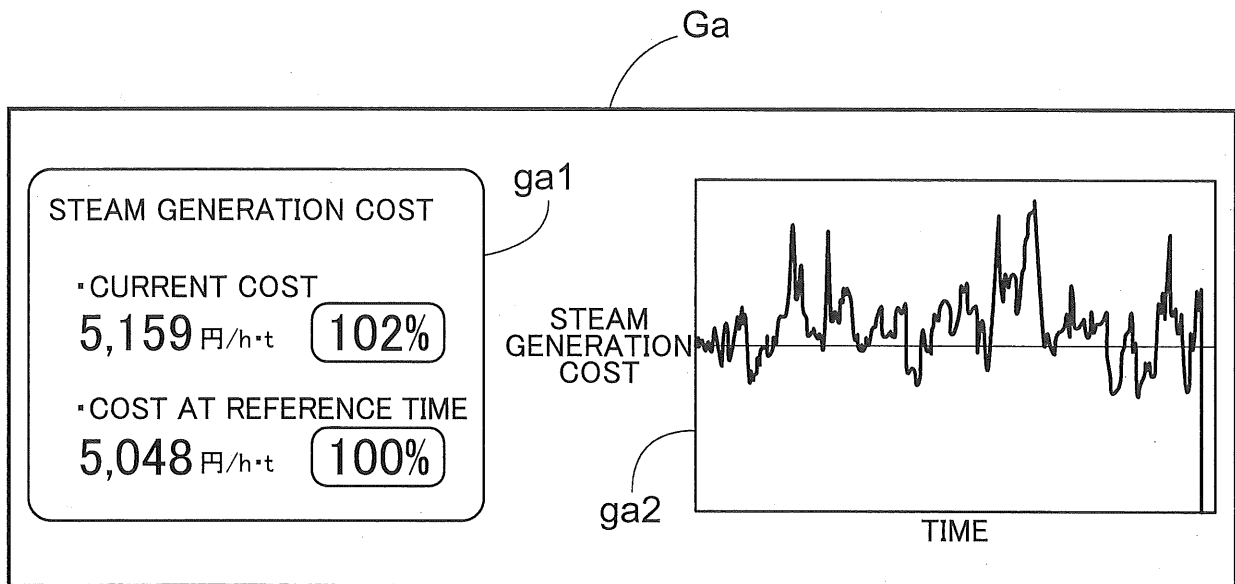


Fig.9

TOTAL AMOUNT OF STEAM	152.6	t/h
AMOUNT OF UNKNOWN STEAM	28.6	t/h
PERCENTAGE OF UNKNOWN STEAM	19	%

Gb

gb2

gb3

SIMULATION RESULT

Fuel(C4)	-72.8	Nm ³ /h	39,569	THOUSAND YEN/YEAR
Fuel Gas	-87.2	Nm ³ /h	47,402	THOUSAND YEN/YEAR
Power	0.0	kW	0	THOUSAND YEN/YEAR
Water	-2.5	m ³ /h	2,624	THOUSAND YEN/YEAR
TOTAL			95,594	THOUSAND YEN/YEAR
CO ₂			-6,425	t-CO ₂ /YEAR

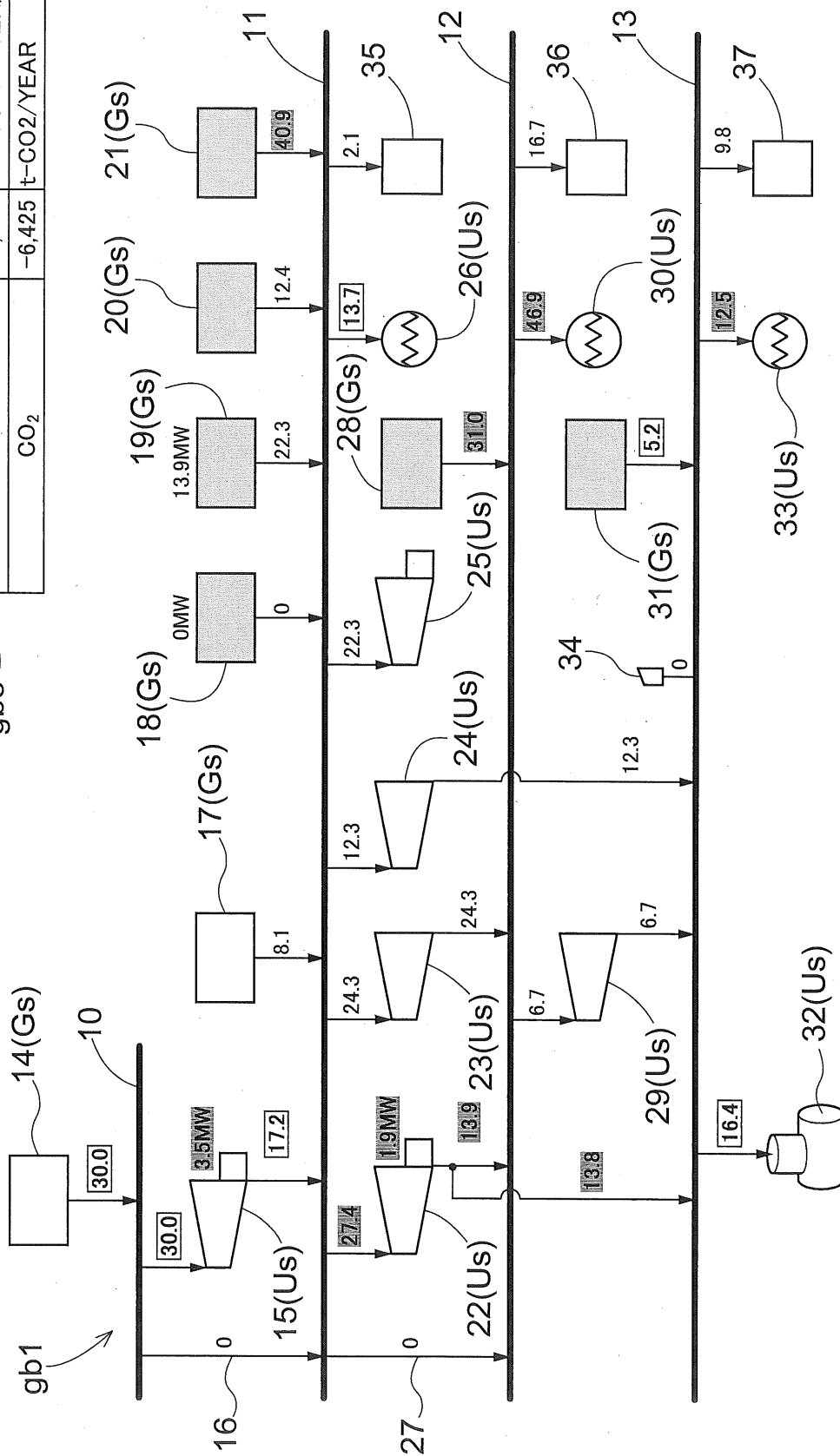


Fig.10

gc2	GENERATION	18.724	Nm ³ /h	UNKNOWN GAS	2.002	Nm ³ /h
	CONSUMPTION	16.722	Nm ³ /h	PERCENTAGE OF UNKNOWN GAS	11	%

Gc	REDUCTION AMOUNT OF C4 BACKUP	0	Nm ³ /h	0	THOUSAND YEN/YEAR
	REDUCTION AMOUNT OF PRODUCT C4	151	Nm ³ /h	82,063	THOUSAND YEN/YEAR
	REDUCTION AMOUNT OF FUEL A	-366	Nm ³ /h	-17,550	THOUSAND YEN/YEAR
	TOTAL			64,513	THOUSAND YEN/YEAR

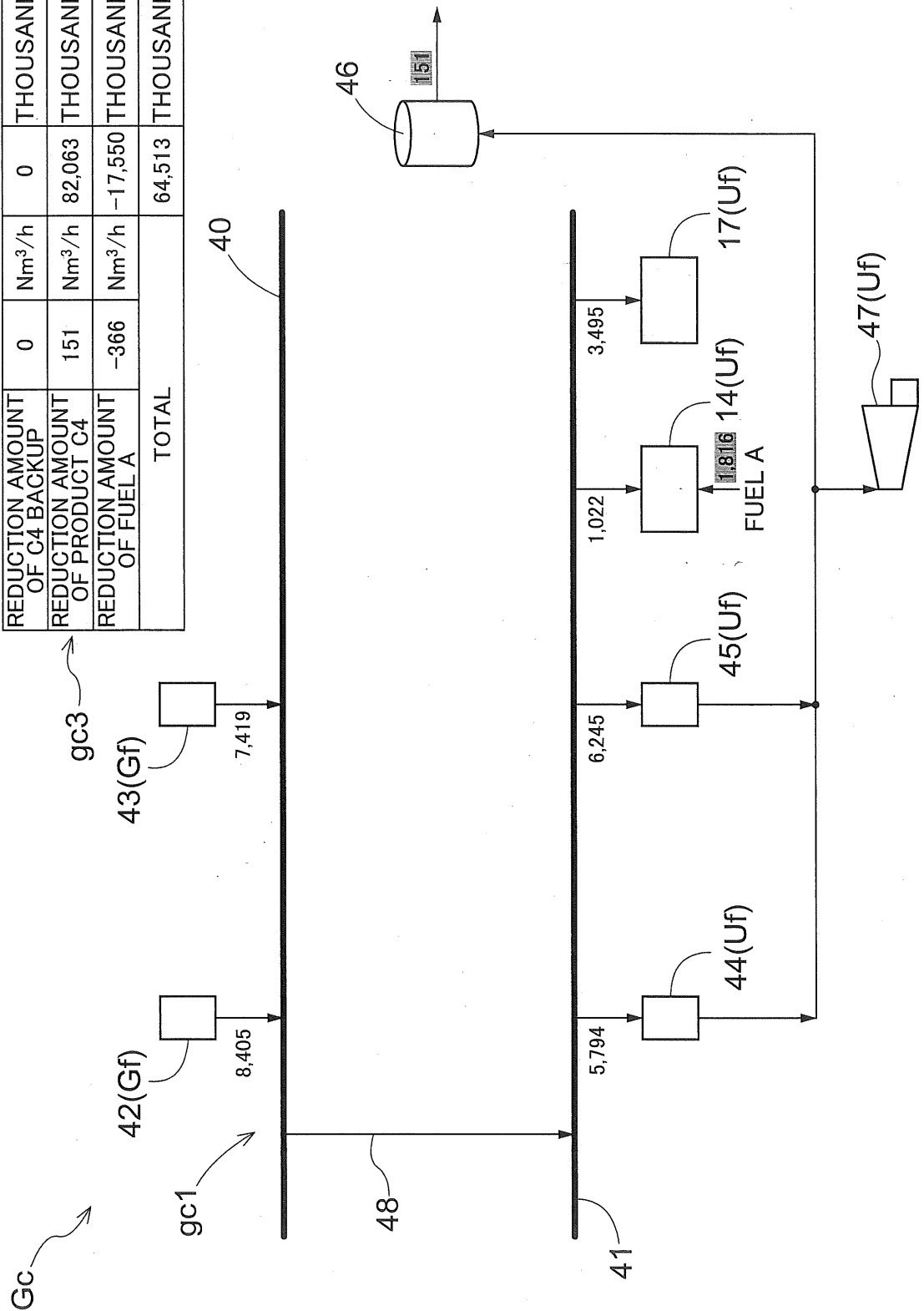
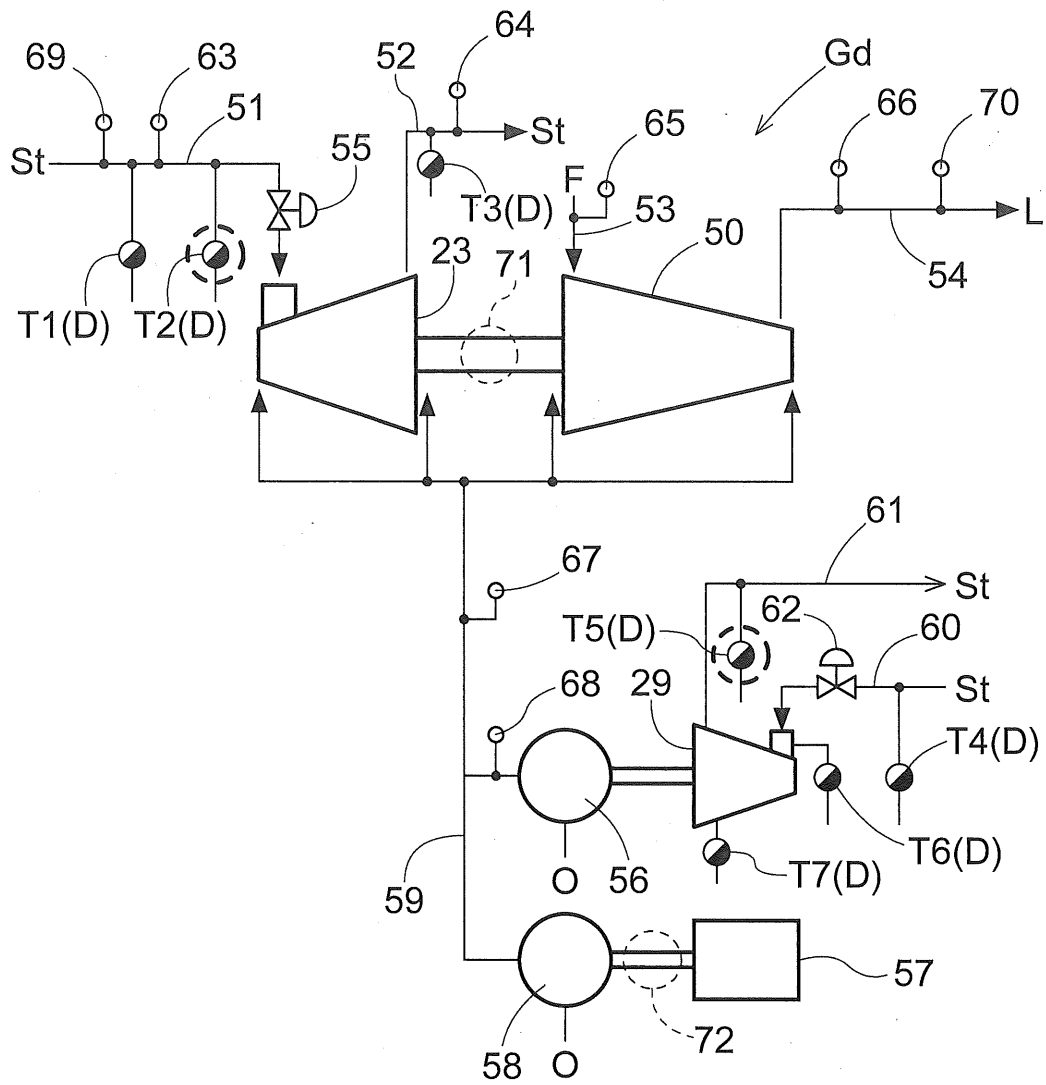


Fig.11



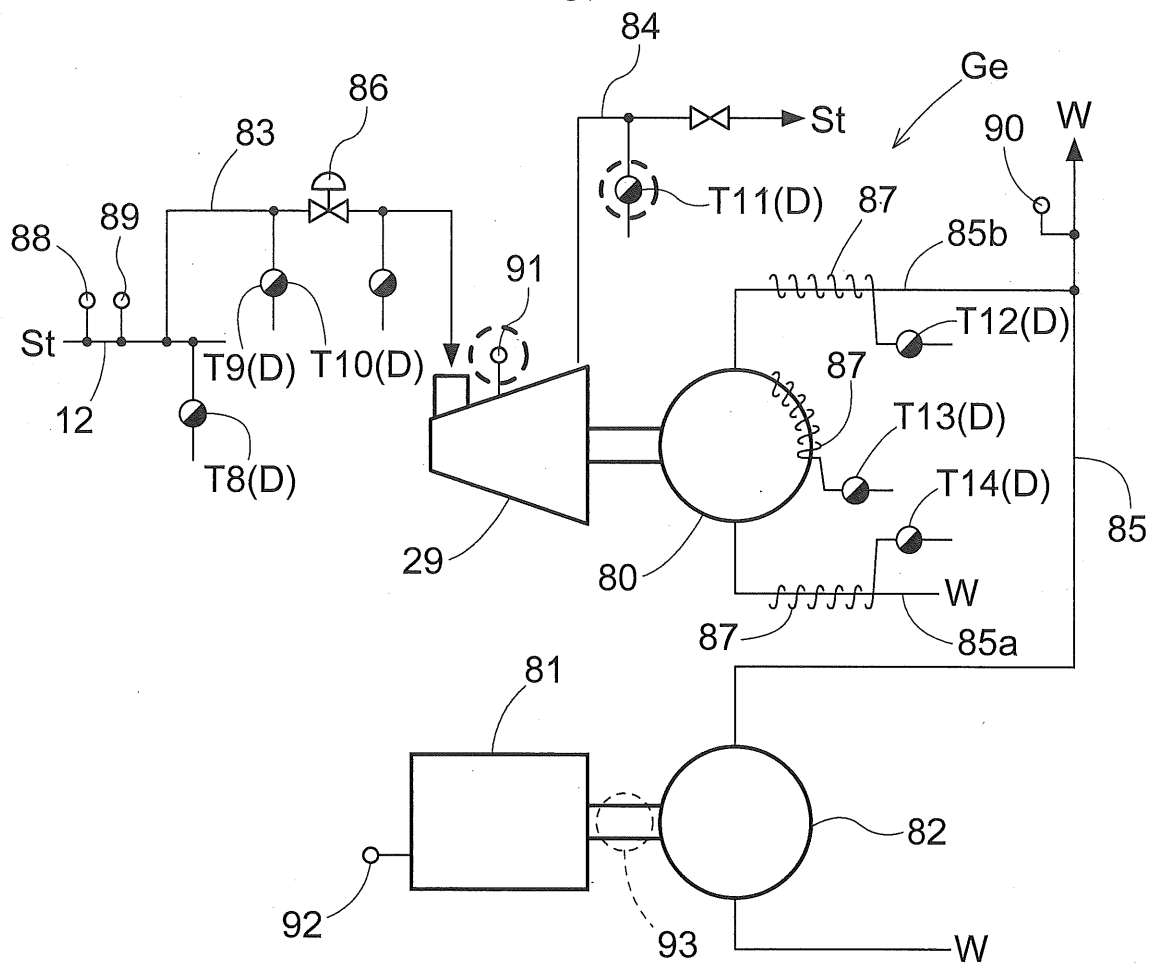


Fig.13

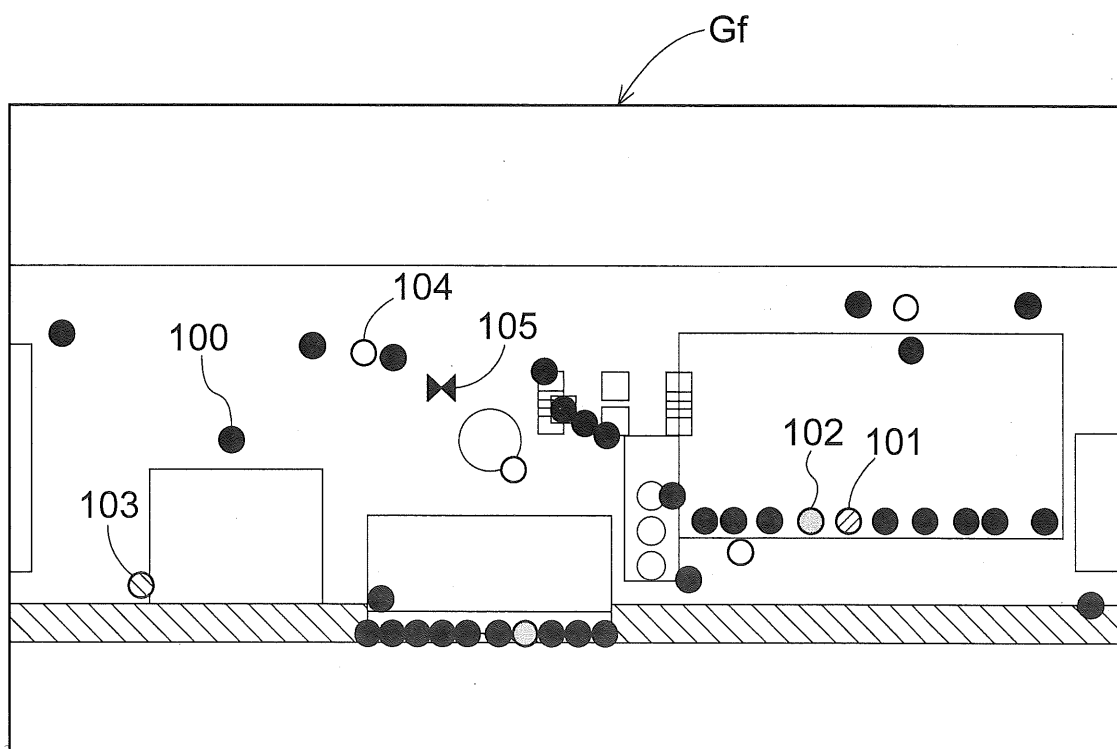


Fig.14

Gg

IMPROVEMENT IDEAS	
(1) ☐	<u>Cool flash steam (steam) from collecting drain pipe with cooling tower to undo invisible state</u>
(2) ☐	<u>Cause superheater equipment that is using middle-pressure steam, to use low-pressure steam by changing piping</u>
(3) ☒	<u>Repair location from which steam is leaking (valves, traps)</u>
(4) ☐	<u>Suction low-pressure steam with steam compressor to perform modification and efficiently use the steam</u>
(5) ☐	<u>Stop steam turbine and preferentially use inexpensive motor-side pump for reduction in electrical charges</u>
...	...