

COAL DEACTIVATION PROCESSING DEVICE AND EQUIPMENT FOR PRODUCING
MODIFIED COAL USING SAME

Fig. 1



FIG.1

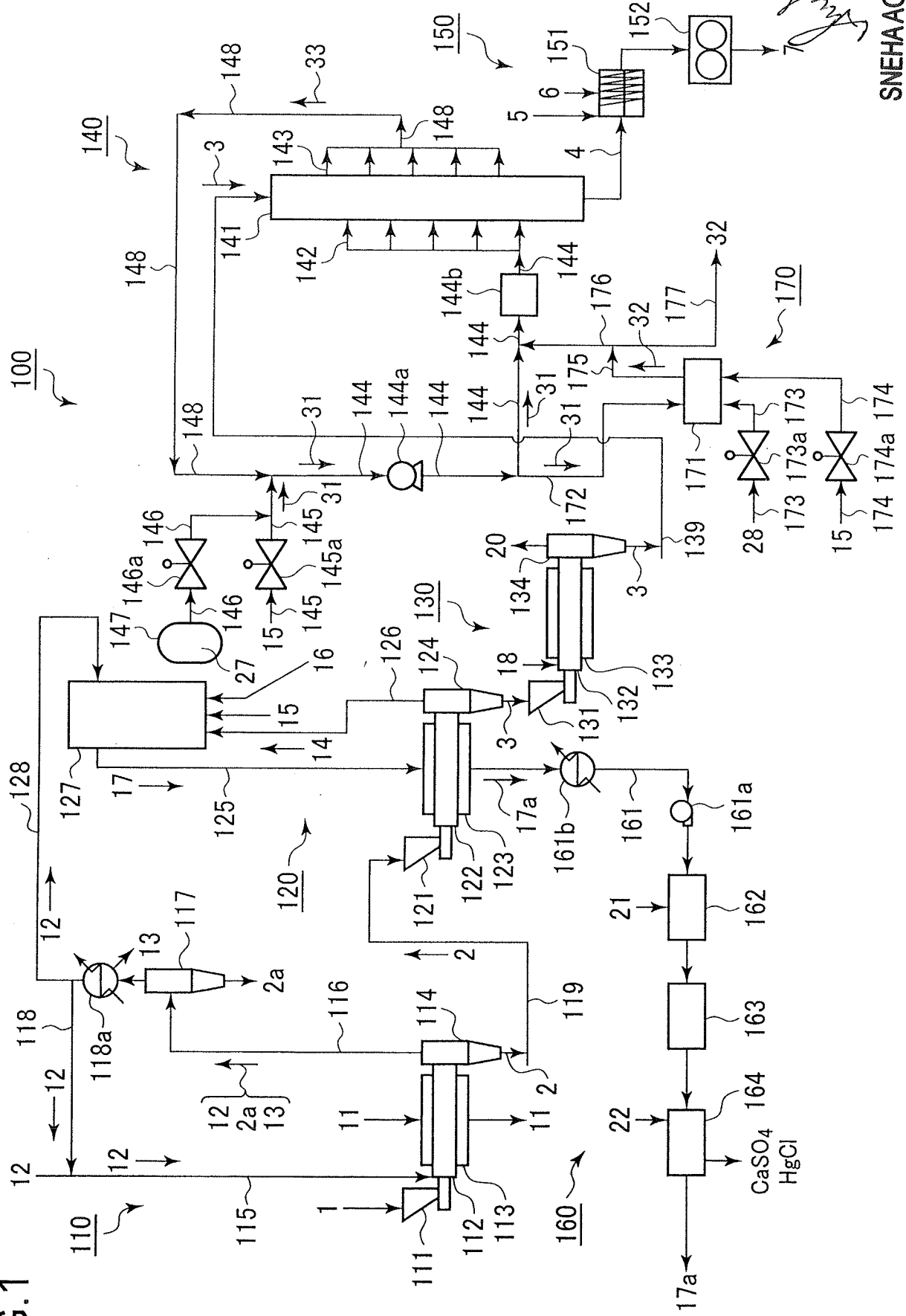


FIG.2

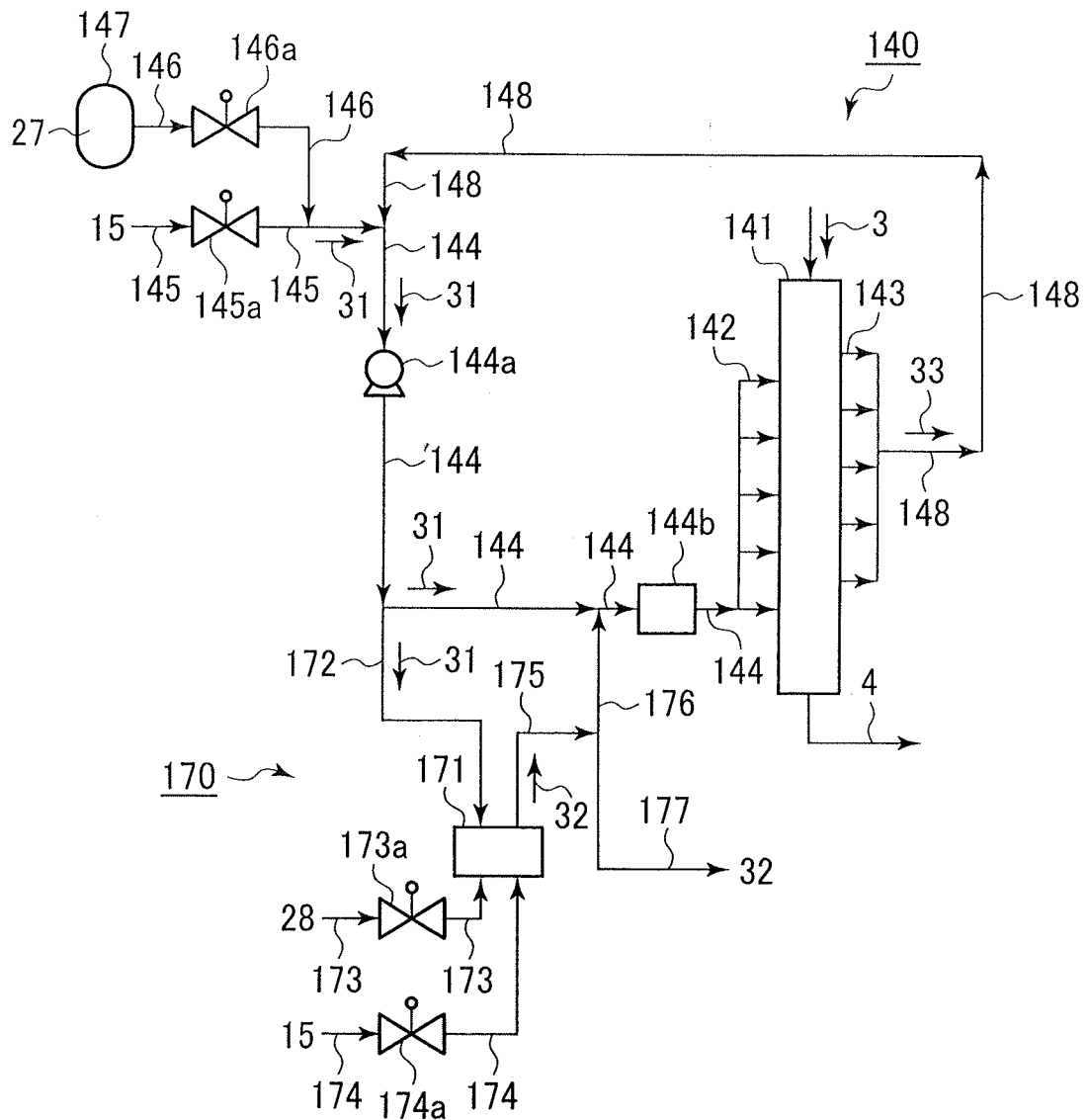


FIG.3

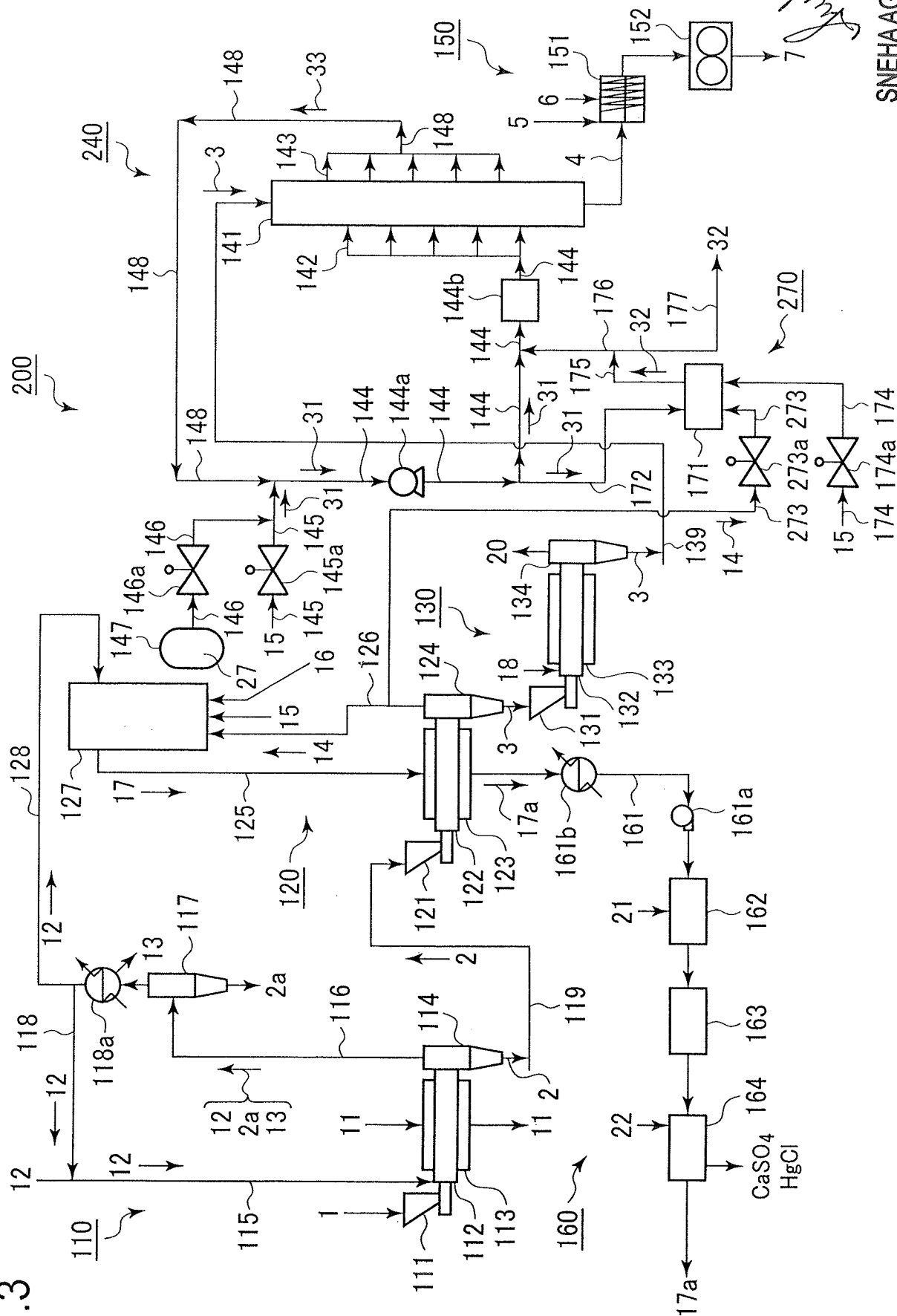


FIG.4

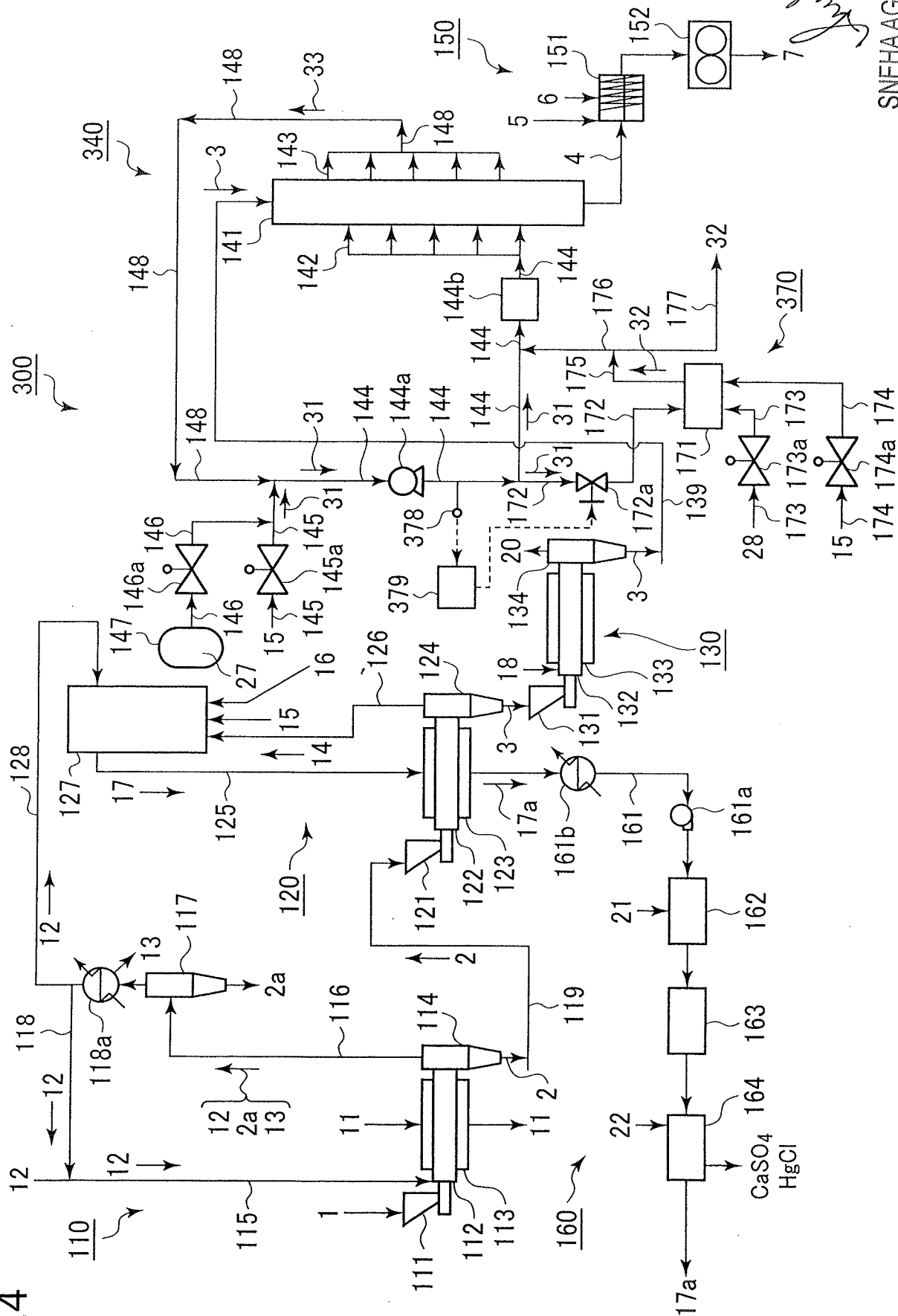


FIG.5

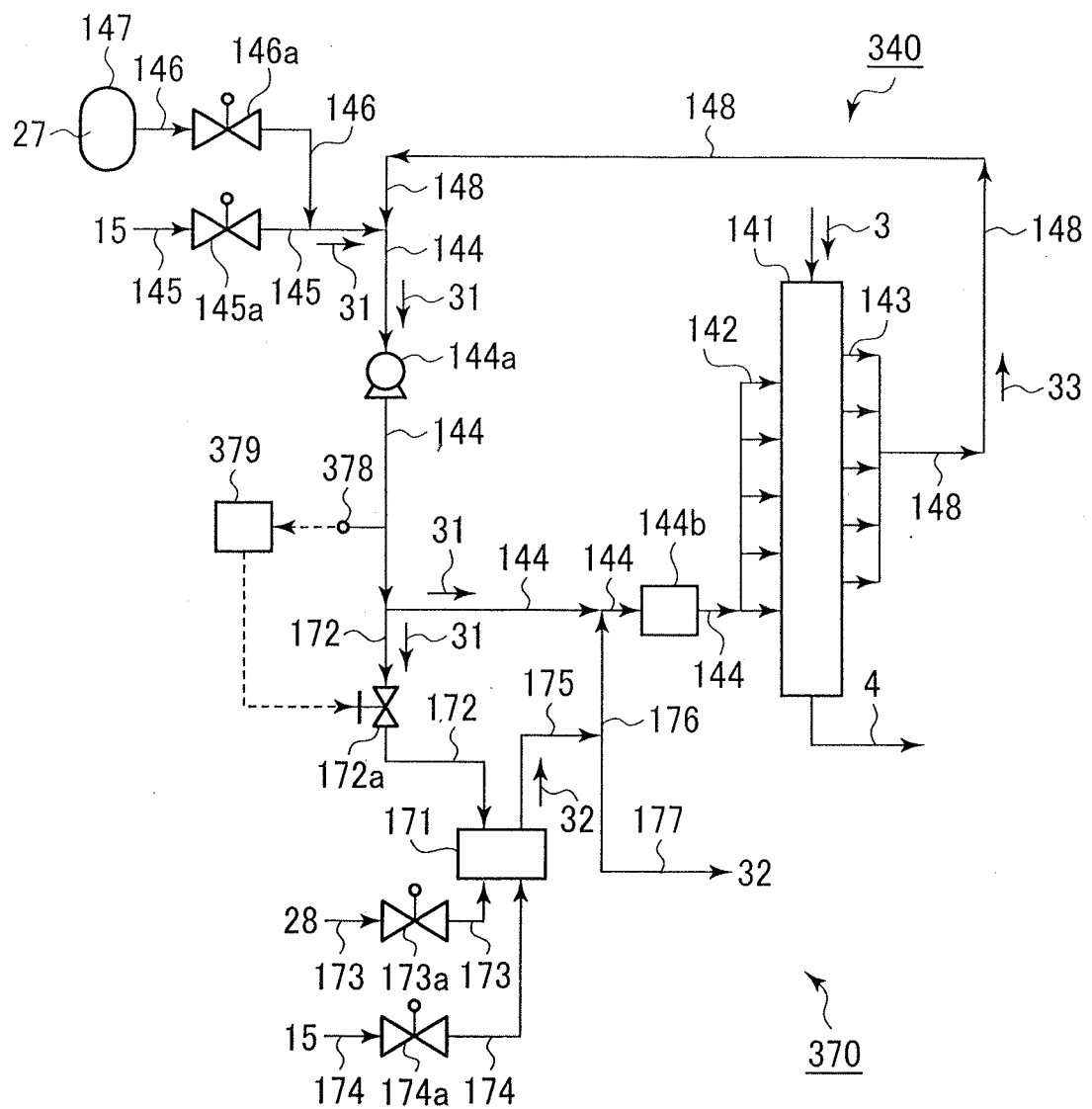


FIG.6

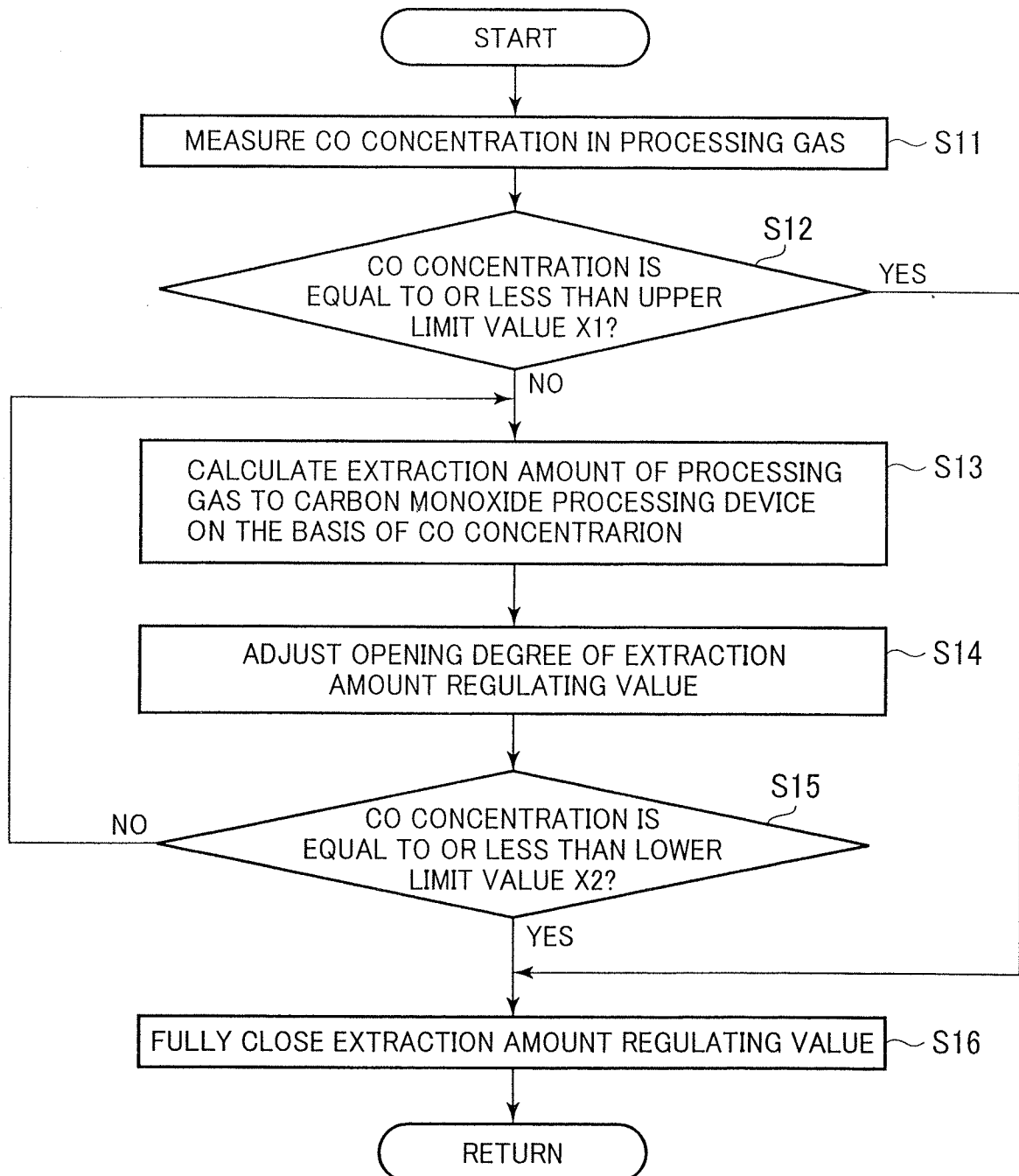


FIG.7

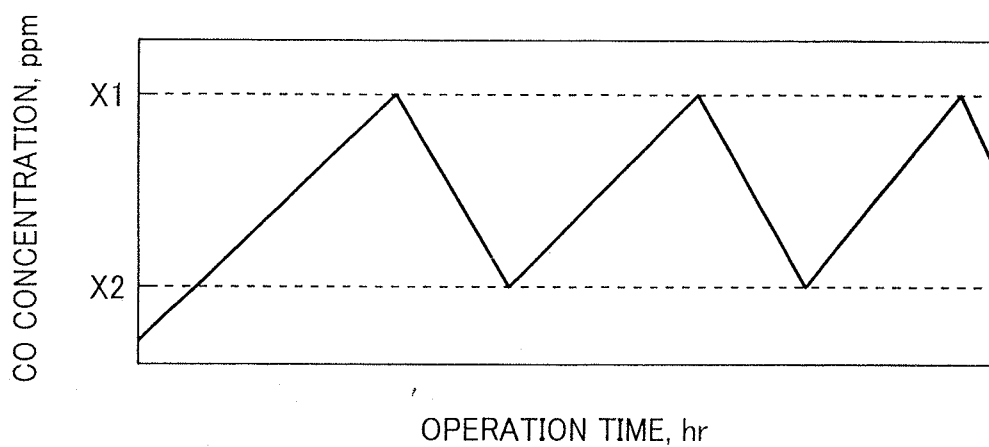
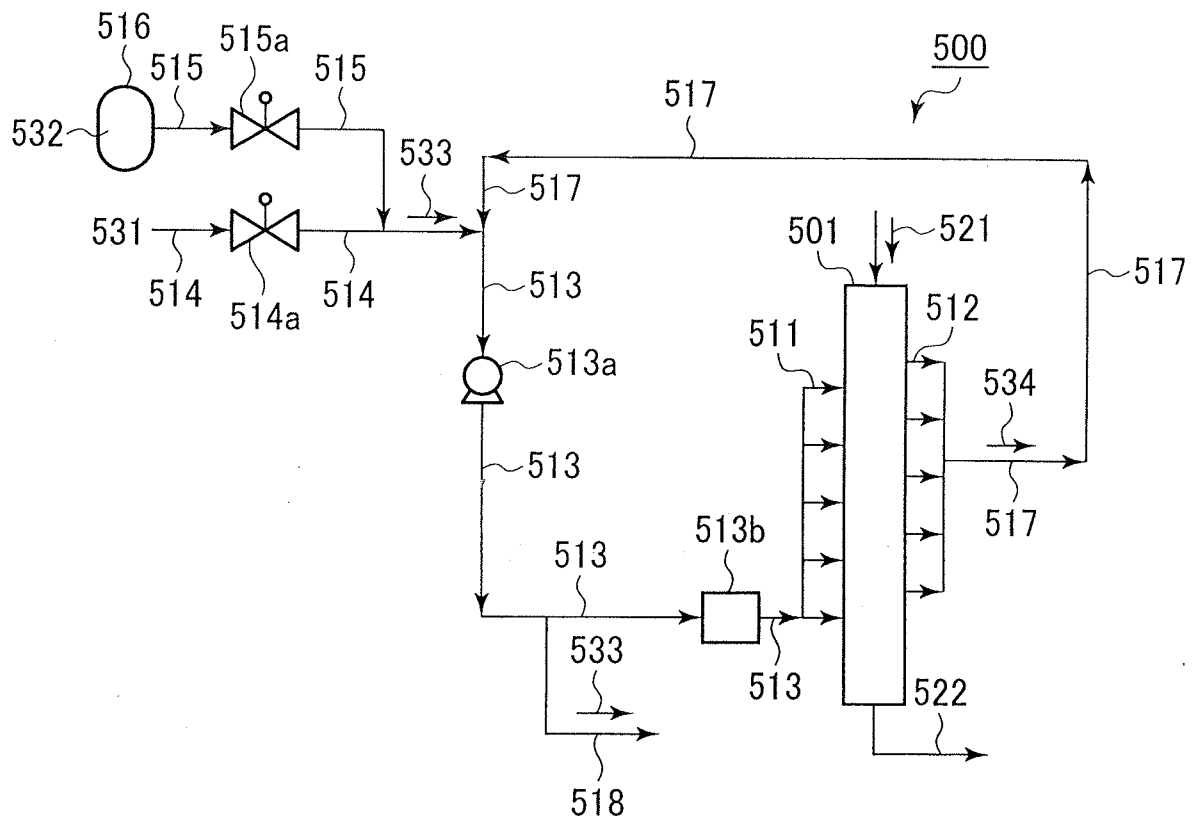


FIG.8



EXPLANATIONS OF REFERENCE NUMERALS

	1	LOW-RANK COAL (LOW-QUALITY COAL)
	2	DRY COAL
5	2a	FINE COAL
	3	PYROLIZED COAL
	4	UPGRADED COAL
	5	BINDER
	6	WATER
10	7	COAL BRIQUETTE
	11	STEAM
	12	INERT GAS
	13	WATER
	14	PYROLYSIS GAS
15	15	AIR
	16	COMBUSTION AID
	17	HEATING GAS
	17a	EXHAUST GAS
	18	COOLING WATER
20	20	WATER VAPOR
	21	AMMONIUM CHLORIDE SOLUTION
	22	CALCIUM CARBONATE SLURRY
	27	NITROGEN GAS
	28	FUEL
25	31	PROCESSING GAS
	32	CARBON MONOXIDE CONCENTRATION ADJUSTED PROCESSING GAS
	33	USED PROCESSING GAS
	100, 200, 300	UPGRADED COAL PRODUCTION EQUIPMENT
	110	COAL DRYING DEVICE
30	111	HOPPER
	112	INNER TUBE (MAIN BODY CYLINDER)

	113	OUTER TUBE (JACKET)
	114	CHUTE
	115	INERT GAS FEED LINE
	116	EXHAUST LINE
5	117	CYCLONE SEPARATOR
	118	CIRCULATION LINE
	118a	CONDENSER
	119	DRY COAL CONVEYING LINE
	120	COAL PYROLIZING DEVICE
10	121	HOPPER
	122	INNER TUBE (MAIN BODY CYLINDER)
	123	OUTER TUBE (JACKET)
	124	CHUTE
	125	HEATING GAS FEED LINE
15	126	EXHAUST LINE
	127	COMBUSTION FURNACE
	128	TAKE-OUT LINE
	130	COOLING DEVICE
	131	HOPPER
20	132	INNER TUBE
	133	OUTER TUBE
	134	CHUTE
	139	PYROLIZED COAL CONVEYING LINE
	140	COAL DEACTIVATION PROCESSING DEVICE
25	141	DEVICE MAIN BODY (PROCESSING TOWER)
	142	INTRODUCTION PIPE
	143	DISCHARGE PIPE
	144	FEED PIPE
	144a	BLOWER
30	144b	HUMIDITY-TEMPERATURE ADJUSTMENT DEVICE
	145	AIR SUPPLY PIPE

	145a	FLOW-RATE REGULATING VALVE
	146	NITROGEN SUPPLY PIPE
	146a	FLOW-RATE REGULATING VALVE
	147	NITROGEN SUPPLY SOURCE
5	148	CIRCULATION PIPE
	150	COAL BRIQUETTE PRODUCING DEVICE
	151	KNEADING DEVICE
	152	COMPRESSION DEVICE
	160	EXHAUST GAS PROCESSING DEVICE
10	161	EXHAUST GAS LINE
	161a	EXHAUST BLOWER
	161b	CONDENSER
	162	DENITRATION DEVICE
	163	ELECTROSTATIC PRECIPITATOR
15	164	DESULFURIZATION DEVICE
	170	CARBON MONOXIDE PROCESSING DEVICE
	171	DEVICE MAIN BODY (PROCESSING TOWER)
	172	EXTRACTION PIPE
	172a	EXTRACTION AMOUNT REGULATING VALVE
20	173	FUEL SUPPLY PIPE
	173a	FLOW-RATE REGULATING VALVE
	174	AIR SUPPLY PIPE
	174a	FLOW-RATE REGULATING VALVE
	175	DISCHARGE PIPE
25	176	FEED PIPE
	177	EXHAUST PIPE
	273	FUEL SUPPLY PIPE
	273a	FLOW-RATE REGULATING VALVE
	378	CARBON MONOXIDE SENSOR
30	379	CONTROL DEVICE
	522	PROCESSED COAL