

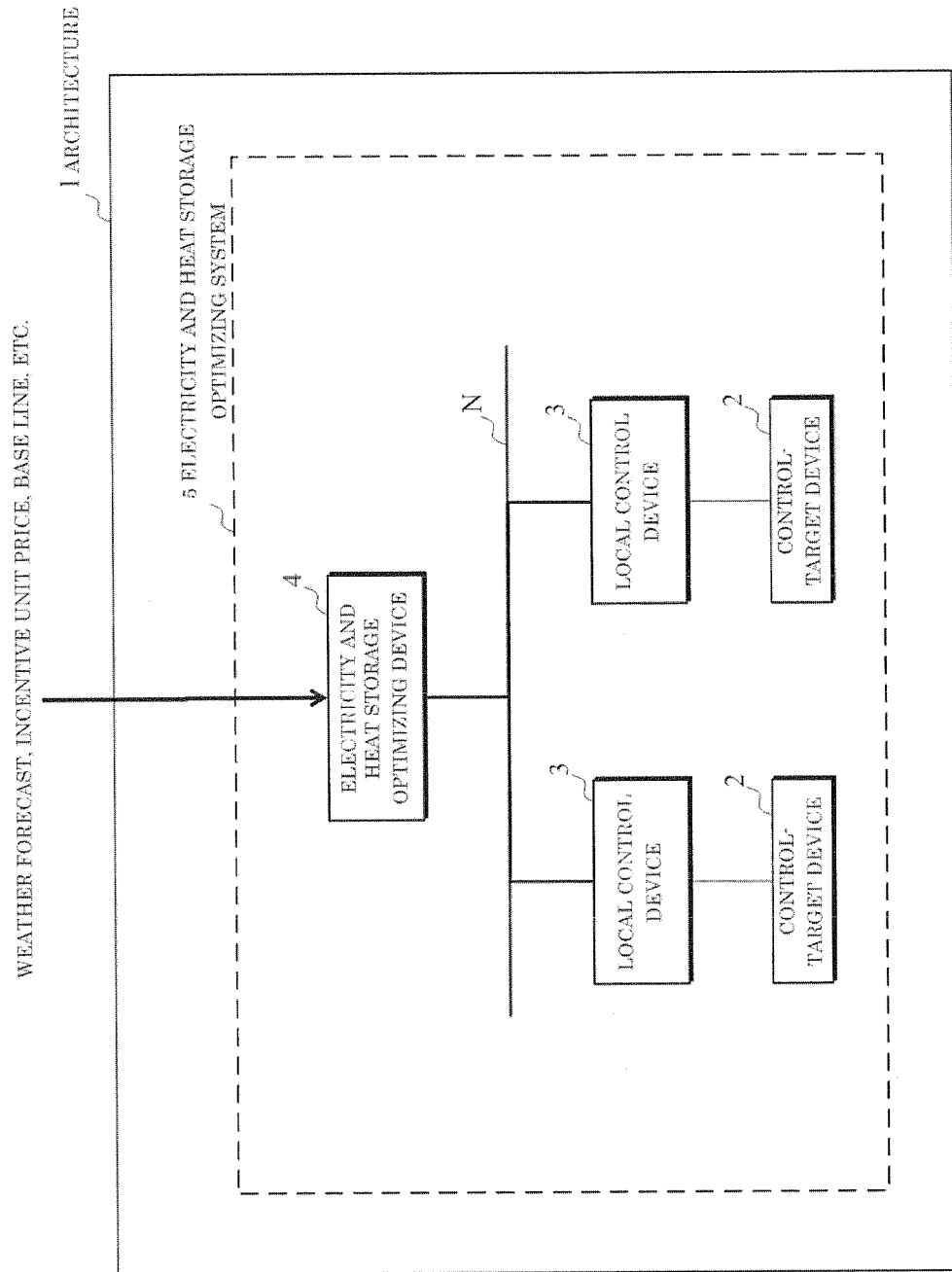


FIG. 1

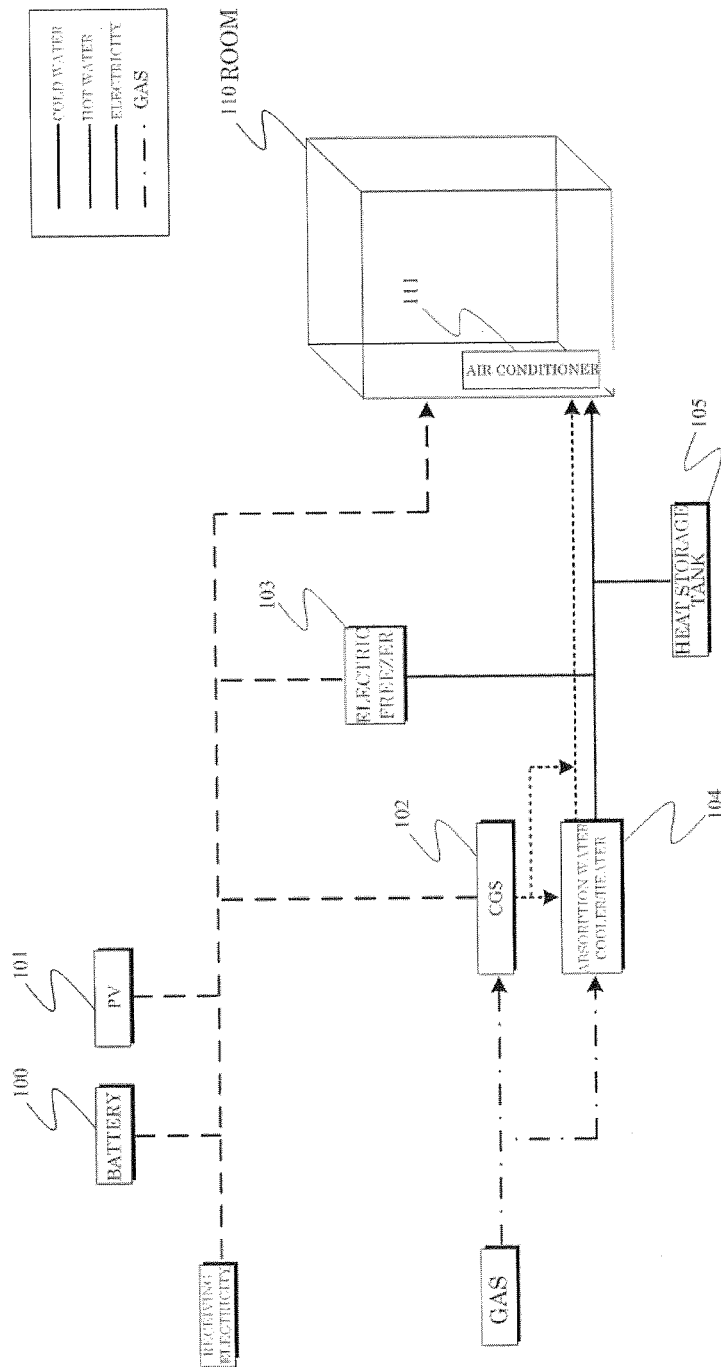


FIG. 2

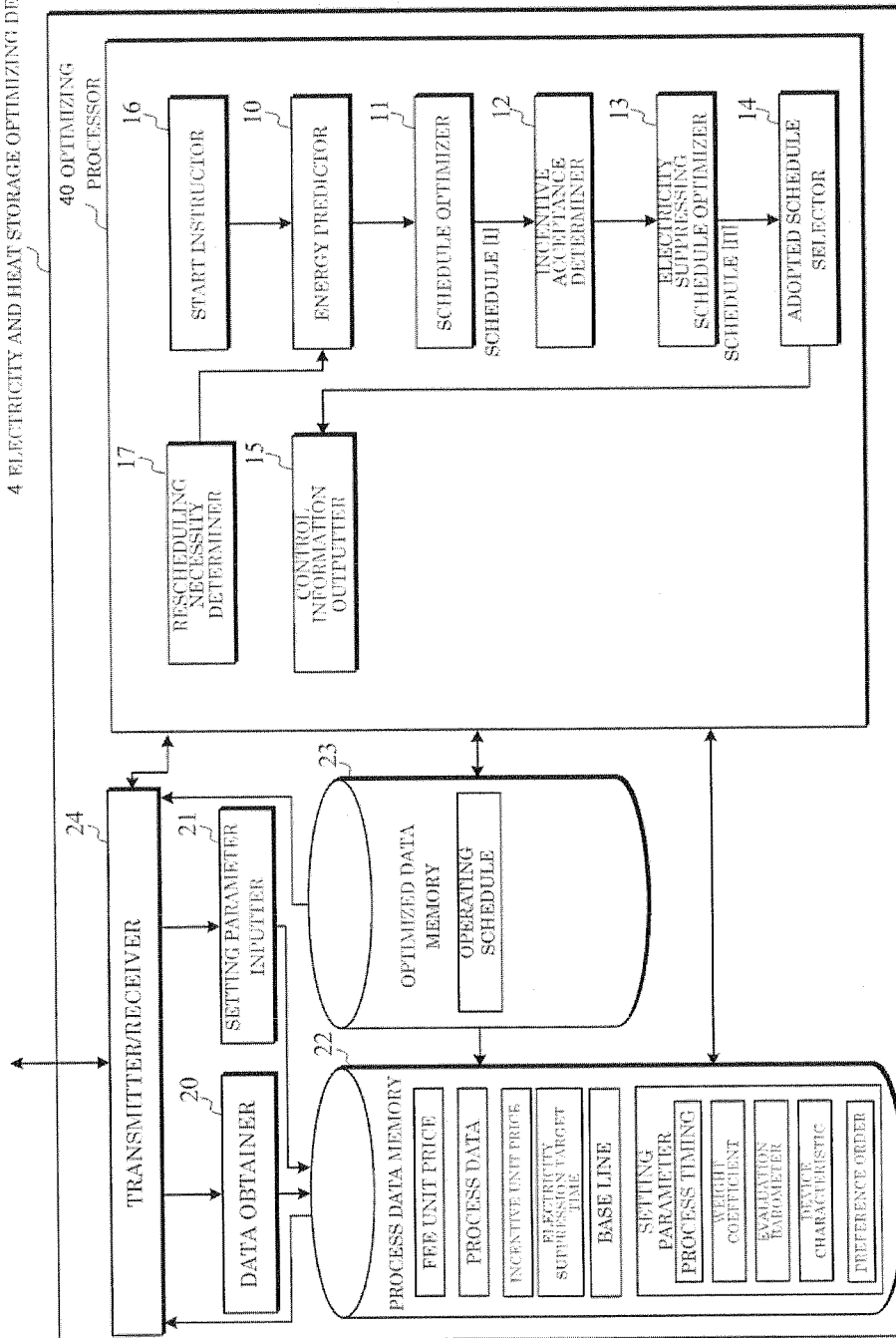


FIG. 3

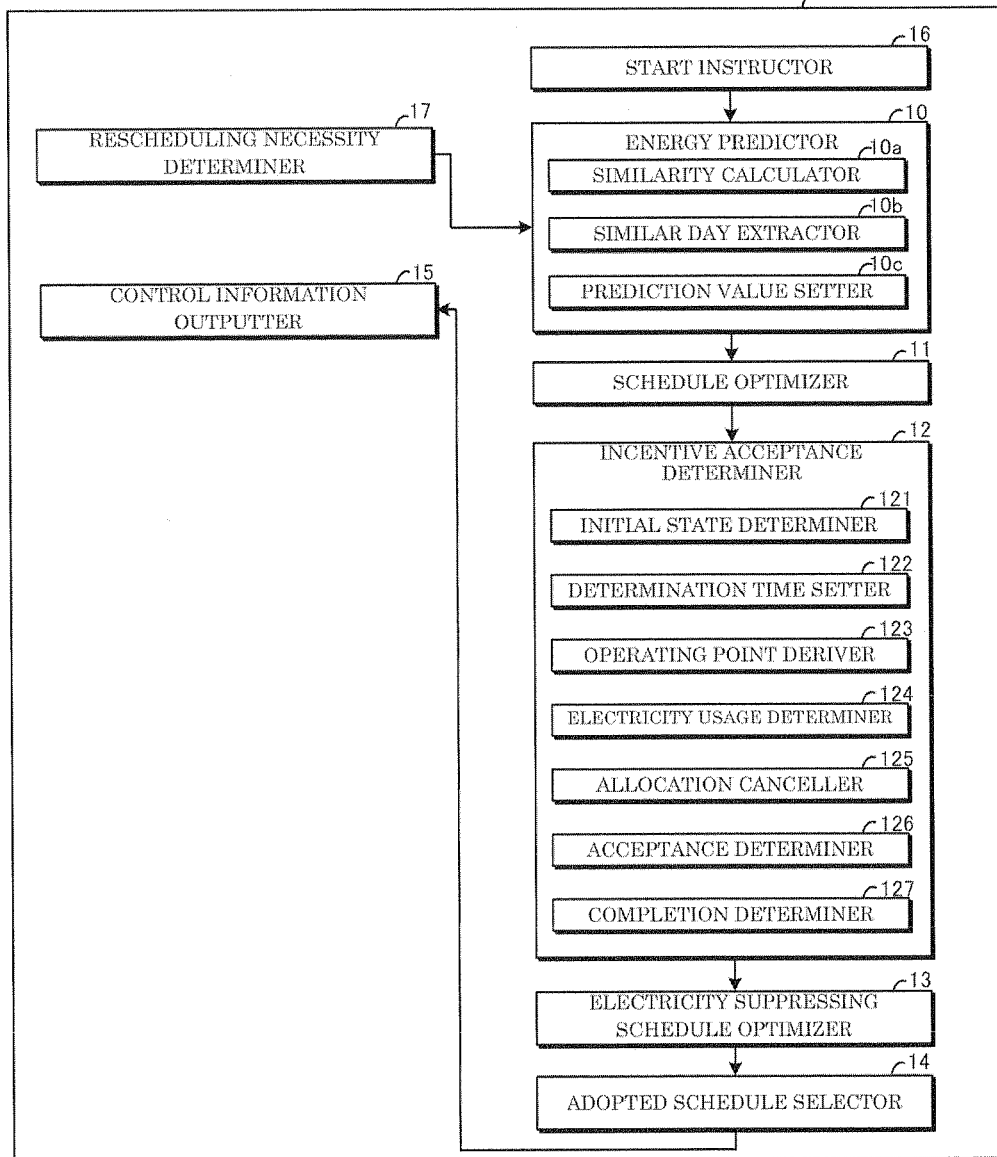
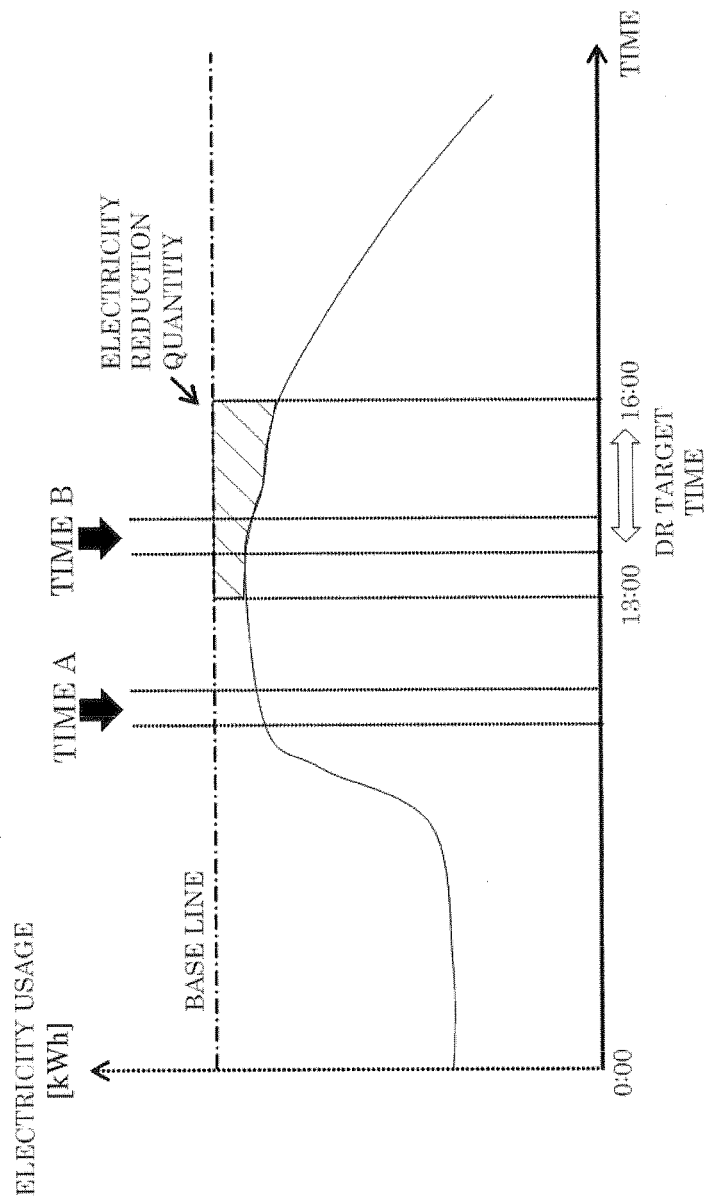


FIG. 4

*FIG. 5*

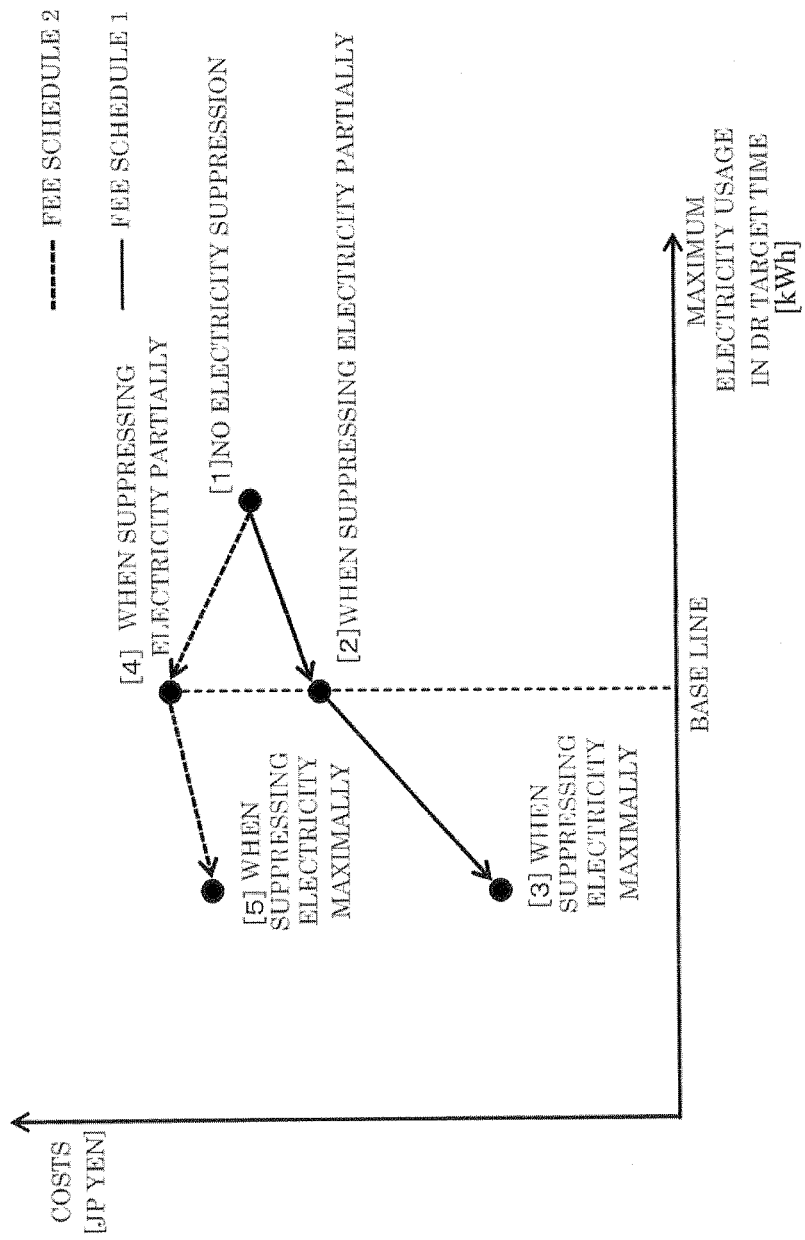
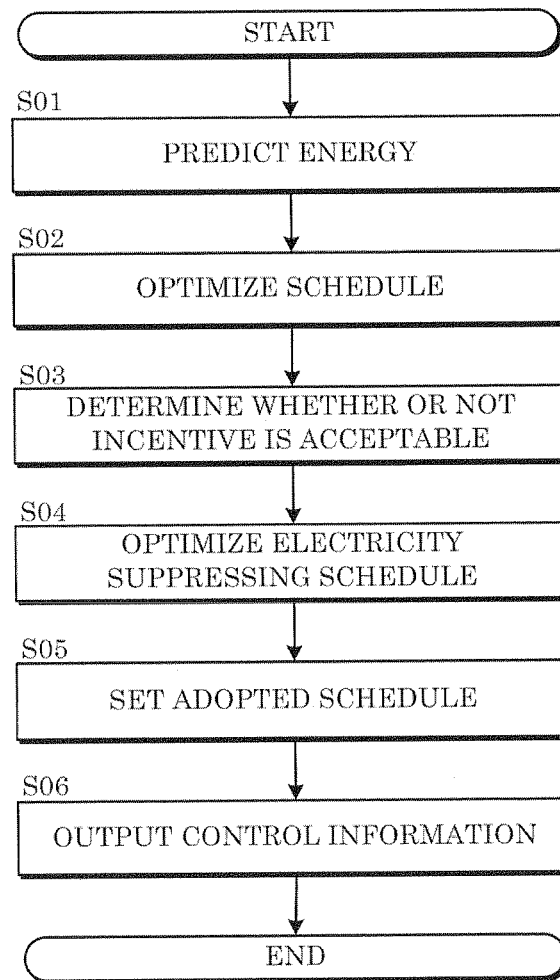


FIG. 6

*FIG. 7*

VARIABLE NAME	PHYSICAL QUANTITY	UPPER AND LOWER LIMITS	UNIT
$X1$	ELECTRICITY USAGE	$0 \leq X1 \leq \text{CONTRACTED ELECTRICITY}$	[kWh]
$X2$	ABSORPTION WATER COOLER/ HEATER LOAD FACTOR (EXHAUST HEAT LOADING MODE)	LOWER LIMIT $\leq X2 \leq 1$	-
$X3$	ABSORPTION WATER COOLER/ HEATER LOAD FACTOR (PRODUCING COLD WATER USING GAS)	LOWER LIMIT $\leq X3 \leq 1$	-
$X4$	ABSORPTION WATER COOLER/ HEATER LOAD FACTOR (PRODUCING HOT WATER USING GAS)	LOWER LIMIT $\leq X4 \leq 1$	-
$X5$	ELECTRIC FREEZER LOAD FACTOR	LOWER LIMIT $\leq X5 \leq 1$	-
$X6$	CGS LOAD FACTOR	LOWER LIMIT $\leq X6 \leq 1$	-
$X7$	REMAINING HEAT STORAGE QUANTITY	$0 \leq X7 \leq \text{HEAT STORAGE CAPACITY}$	[kWh]
$X8$	SOC (State of Charge: REMAINING ELECTRICITY STORAGE QUANTITY)	$0 \leq X8 \leq \text{ELECTRIC STORAGE VALUE CAPACITY}$	[kWh]

FIG. 8

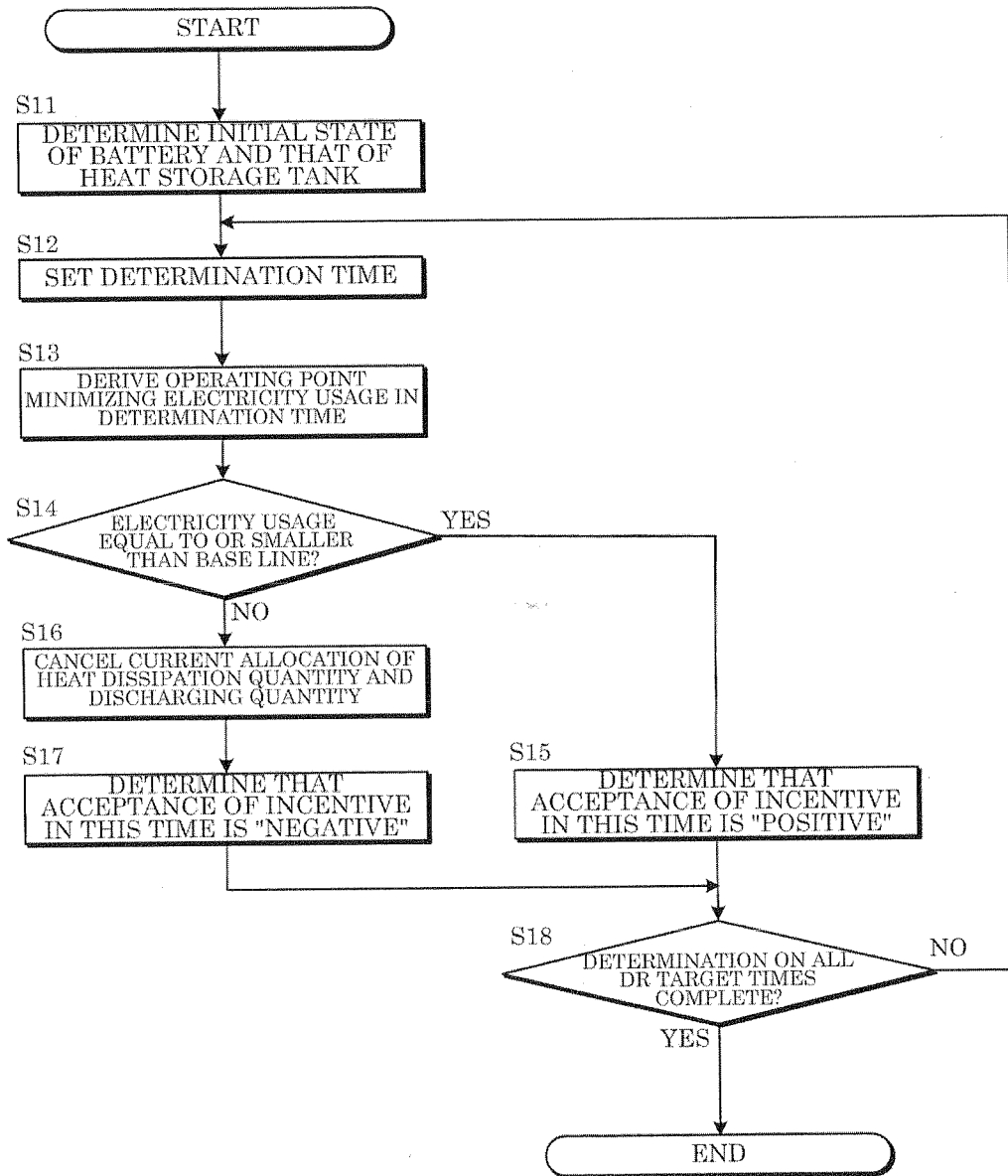
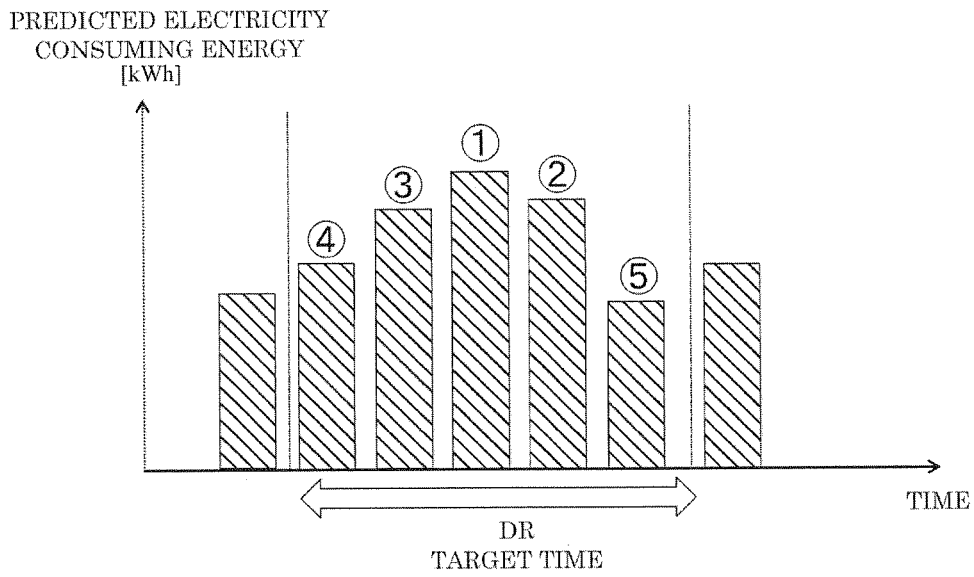
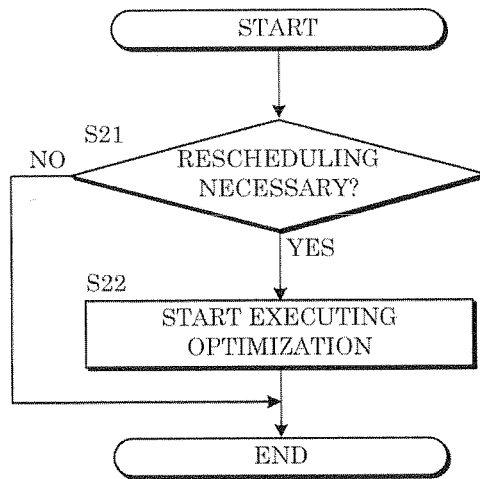
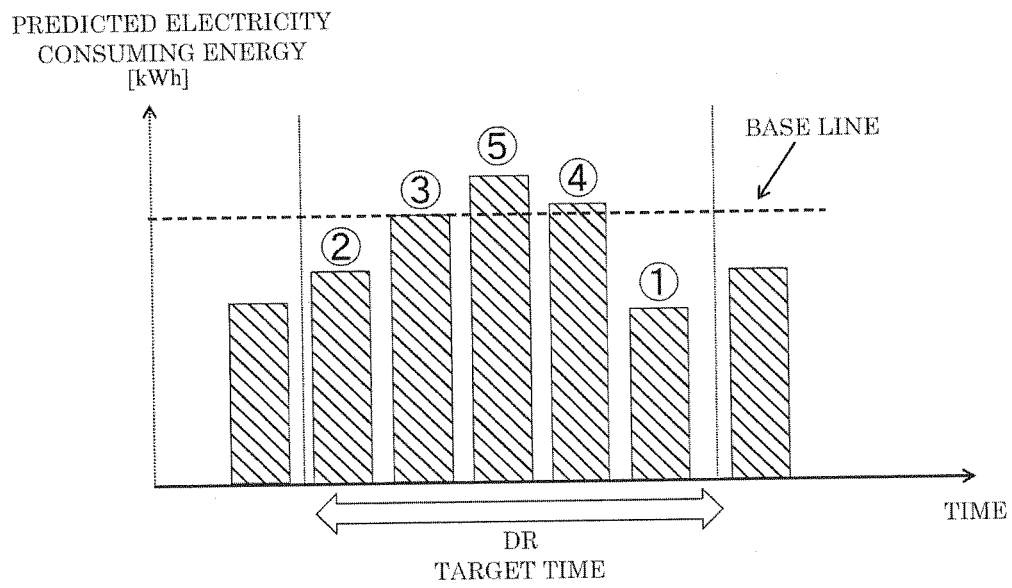


FIG. 9

*FIG. 10**FIG. 11*

*FIG. 12*

4 ELECTRICITY AND HEAT STORAGE OPTIMIZING DEVICE

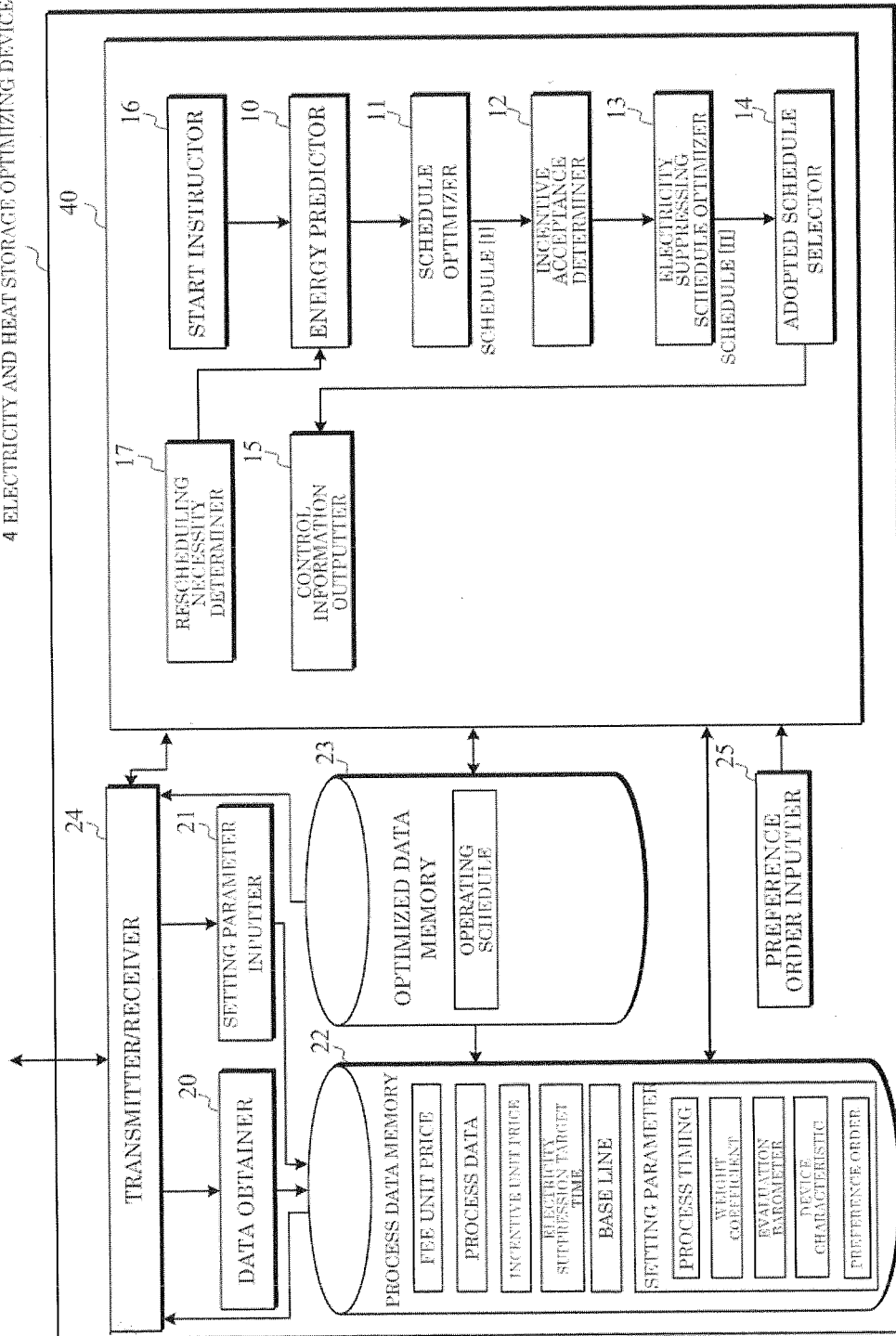


FIG. 13

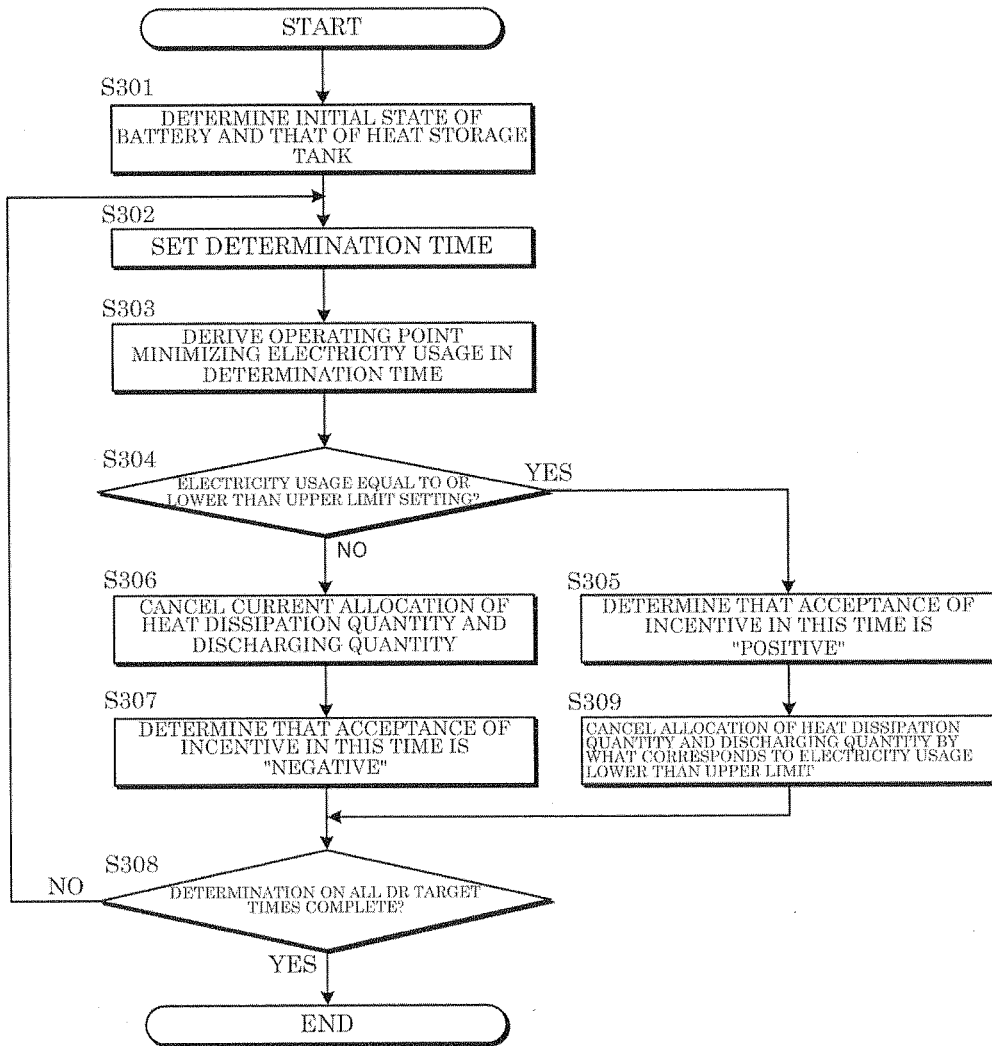


FIG. 14

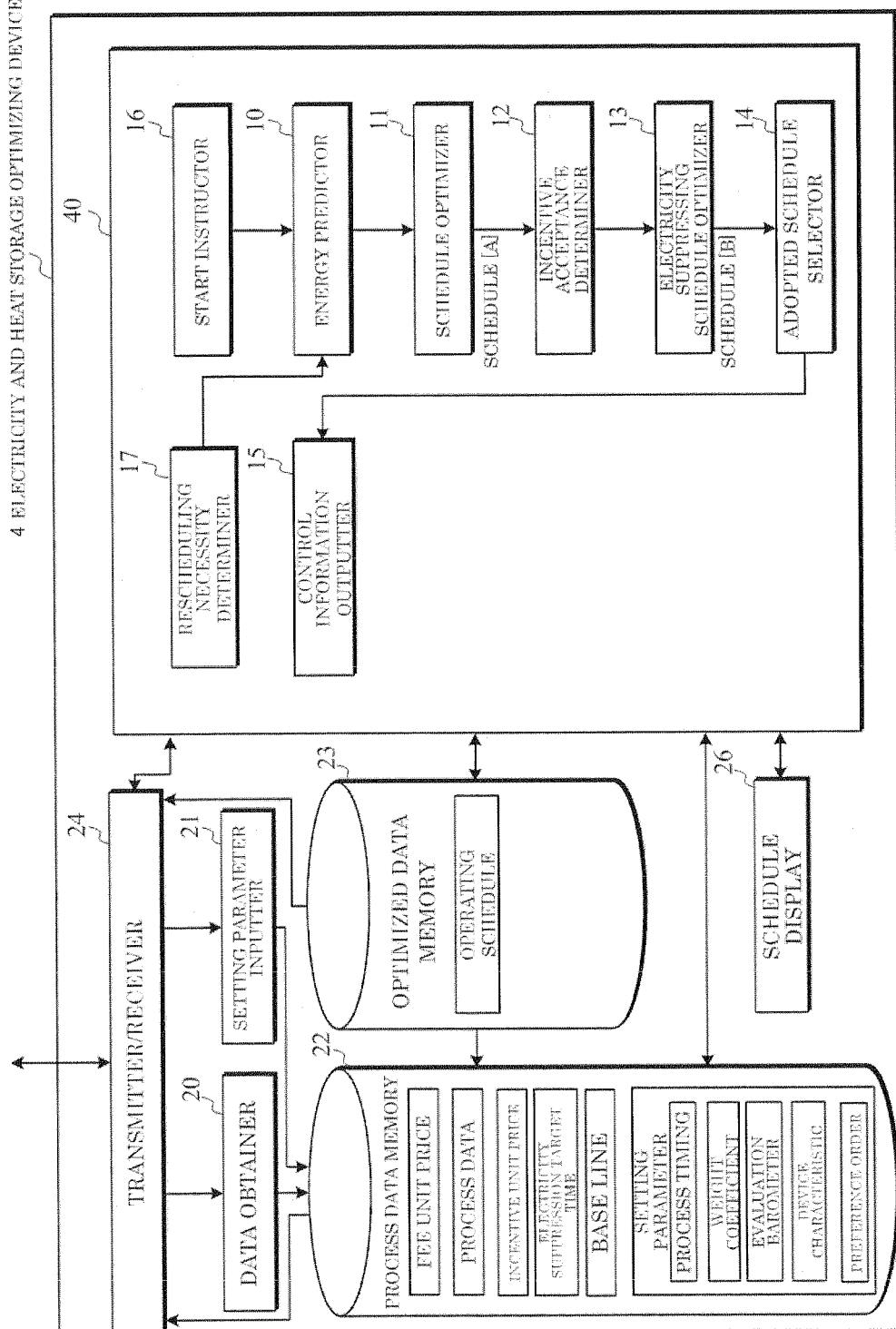


FIG. 15

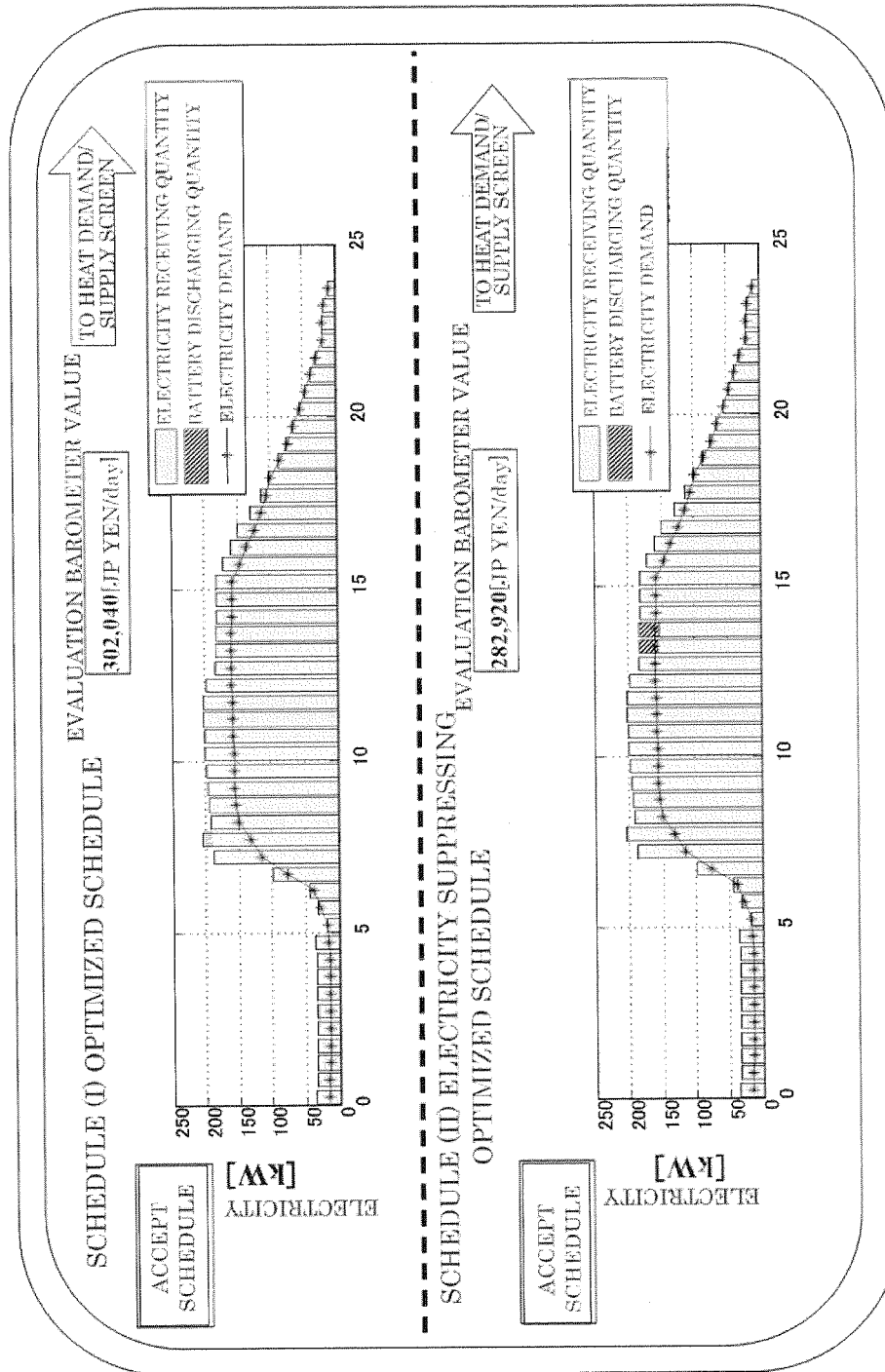
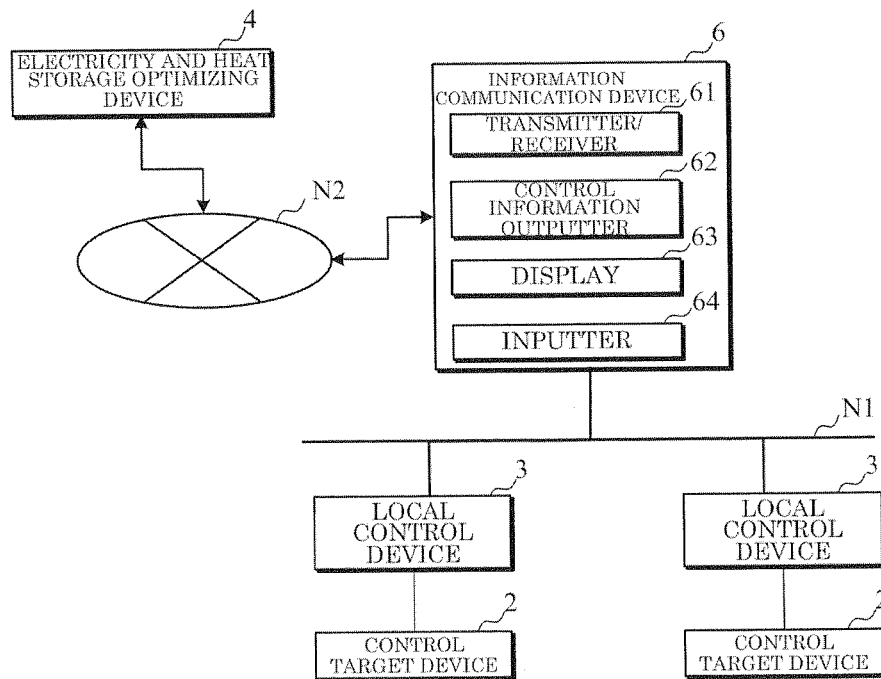


FIG. 16

*FIG. 17*