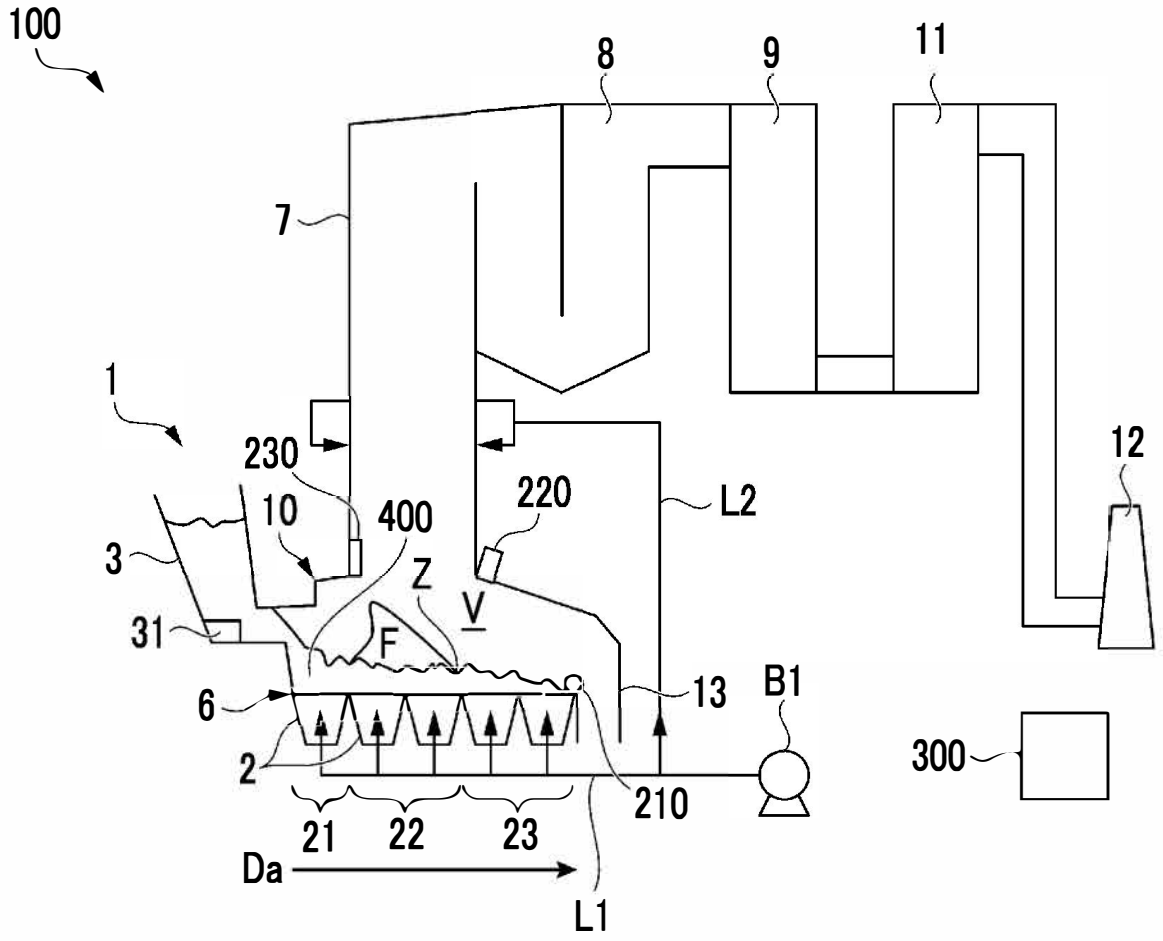

100
8
9
11
7
1
230
10
400
220
L2
12
3
Z
V
31
F
6
13
B1
2
300
210
21
22
23
Da
L1

FIG. 1


-Da
Da
61A
61A
61B
61A
61A
61B
61A
61A
61B

FIG. 2

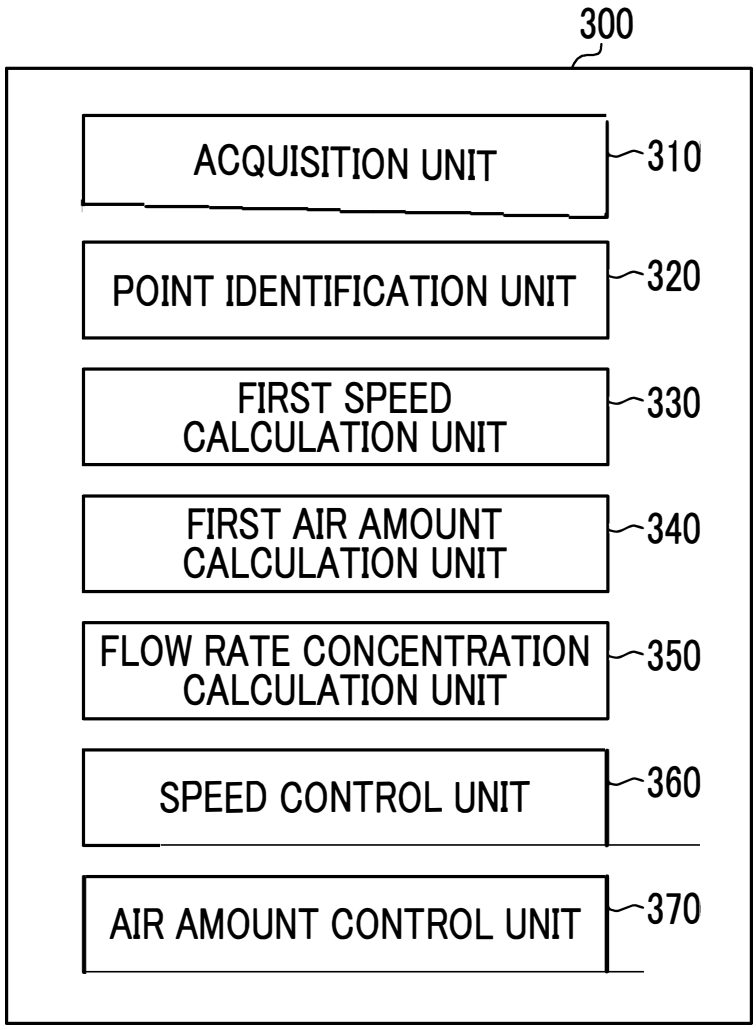

300
ACQUISITION UNIT
310
POINT IDENTIFICATION UNIT
320
FIRST SPEED CALCULATION UNIT
330
FIRST AIR AMOUNT CALCULATION UNIT
340
FLOW RATE CONCENTRATION CALCULATION UNIT
350
SPEED CONTROL UNIT
360
AIR AMOUNT CONTROL UNIT
370

FIG. 3

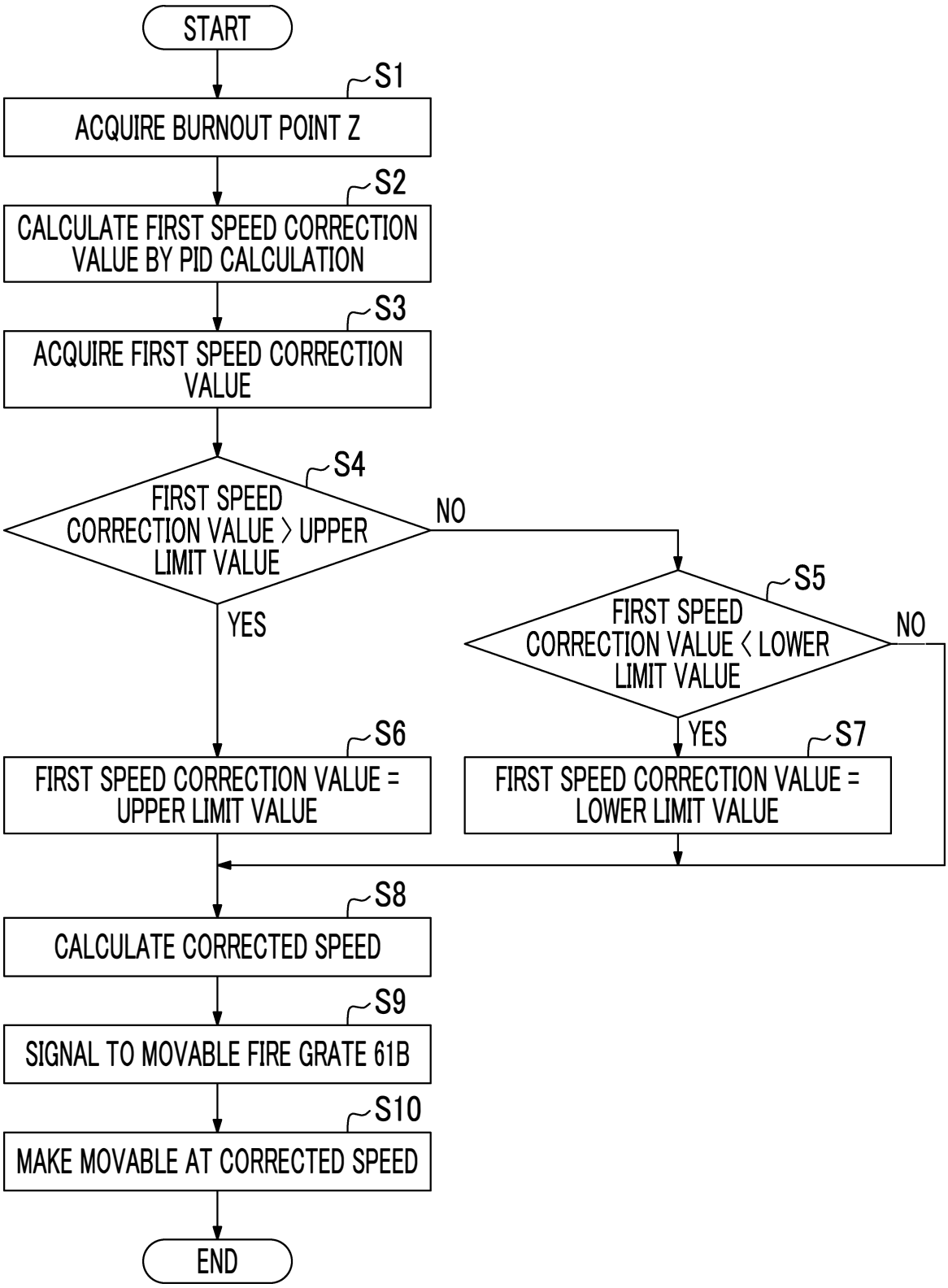
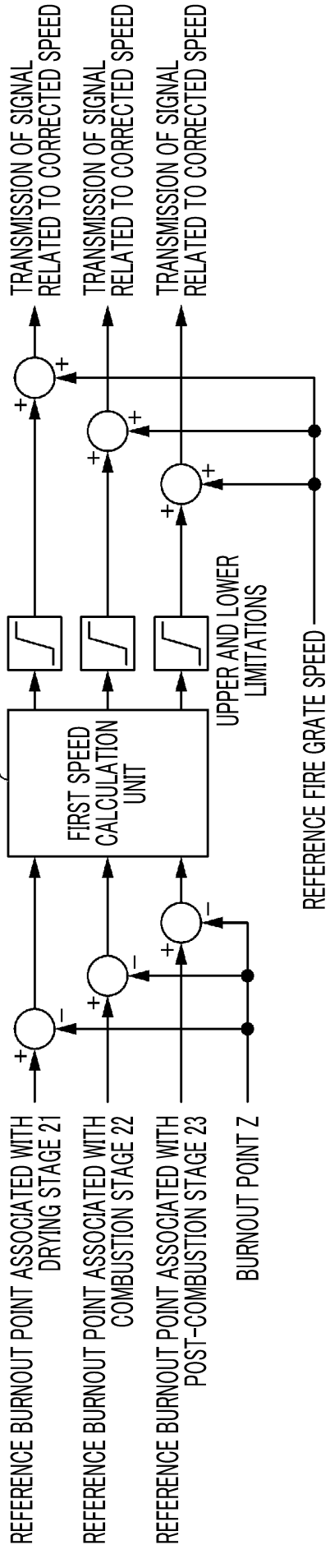

START
S1
ACQUIRE BURNOUT POINT Z
S2
CALCULATE FIRST SPEED CORRECTION VALUE BY PID CALCULATION
S3
ACQUIRE FIRST SPEED CORRECTION VALUE
S4
FIRST SPEED CORRECTION VALUE 〉 UPPER LIMIT VALUE
NO
YES
S5
FIRST SPEED CORRECTION VALUE 〈 LOWER LIMIT VALUE
NO
YES
S6
FIRST SPEED CORRECTION VALUE = UPPER LIMIT VALUE
S7
FIRST SPEED CORRECTION VALUE = LOWER LIMIT VALUE
S8
CALCULATE CORRECTED SPEED
S9
SIGNAL TO MOVABLE FIRE GRATE 61B
S10
MAKE MOVABLE AT CORRECTED SPEED
END

FIG. 4

FIG. 5


330
FIRST SPEED CALCULATION UNIT
UPPER AND LOWER LIMITATIONS
REFERENCE BURNOUT POINT ASSOCIATED WITH DRYING STAGE 21
REFERENCE BURNOUT POINT ASSOCIATED WITH COMBUSTION STAGE 22
REFERENCE BURNOUT POINT ASSOCIATED WITH POST-COMBUSTION STAGE 23
BURNOUT POINT Z
REFERENCE FIRE GRATE SPEED
TRANSMISSION OF SIGNAL RELATED TO CORRECTED SPEED
TRANSMISSION OF SIGNAL RELATED TO CORRECTED SPEED
TRANSMISSION OF SIGNAL RELATED TO CORRECTED SPEED

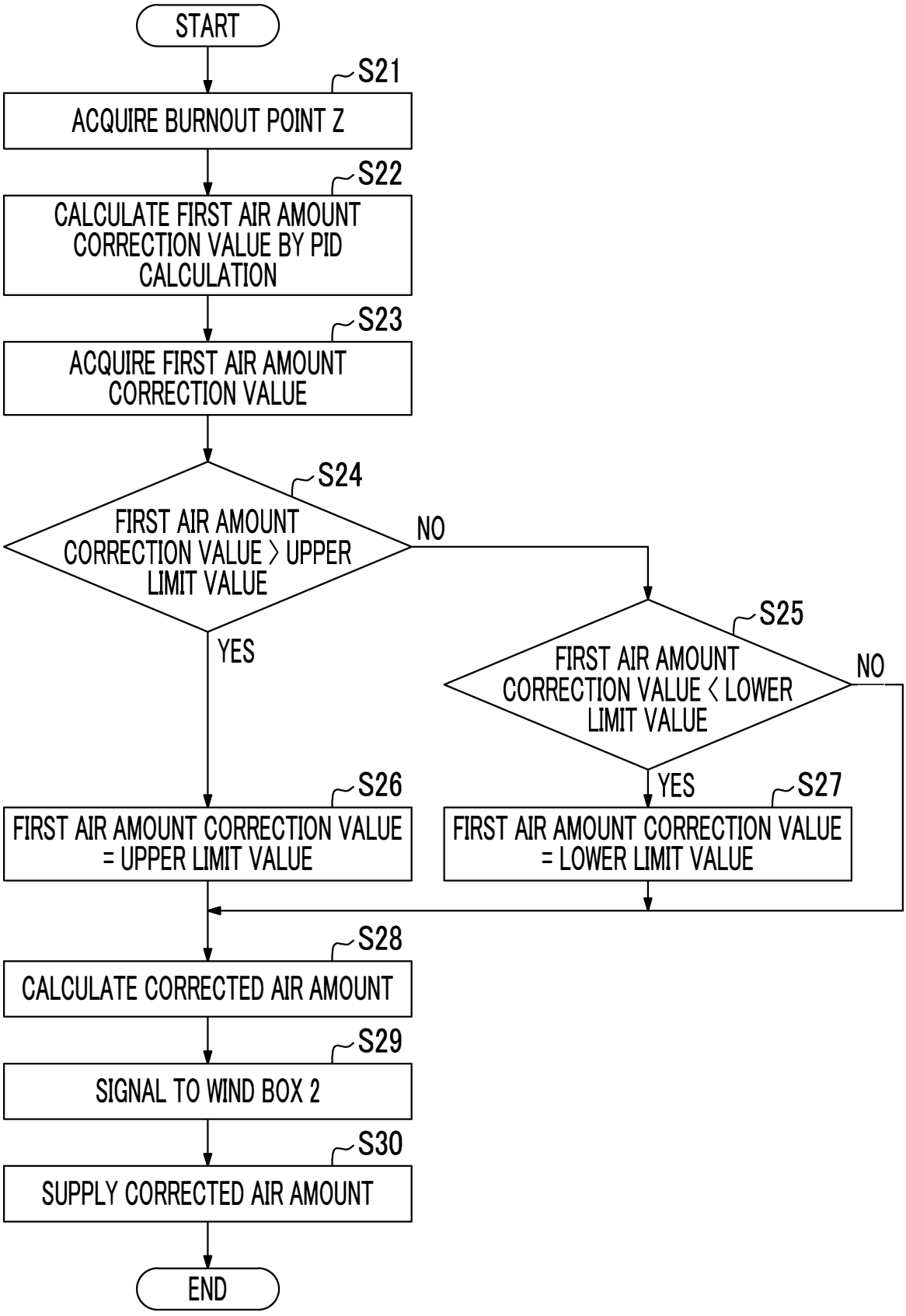
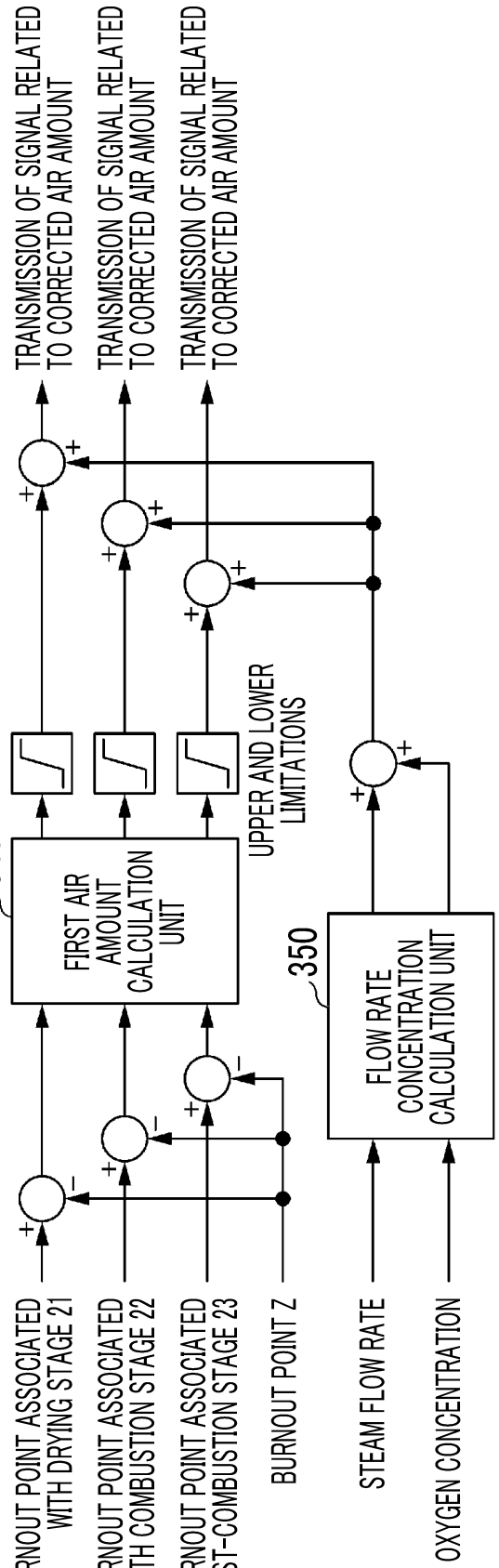

START
S21
ACQUIRE BURNOUT POINT Z
S22
CALCULATE FIRST AIR AMOUNT CORRECTION VALUE BY PID CALCULATION
S23
ACQUIRE FIRST AIR AMOUNT CORRECTION VALUE
S24
FIRST AIR AMOUNT CORRECTION VALUE > UPPER LIMIT VALUE
NO
YES
S25
FIRST AIR AMOUNT CORRECTION VALUE < LOWER LIMIT VALUE
NO
YES
S26
FIRST AIR AMOUNT CORRECTION VALUE = UPPER LIMIT VALUE
S27
FIRST AIR AMOUNT CORRECTION VALUE = LOWER LIMIT VALUE
S28
CALCULATE CORRECTED AIR AMOUNT
S29
SIGNAL TO WIND BOX 2
S30
SUPPLY CORRECTED AIR AMOUNT
END

FIG. 6

FIG. 7


REFERENCE BURNOUT POINT ASSOCIATED WITH DRYING STAGE 21
REFERENCE BURNOUT POINT ASSOCIATED WITH COMBUSTION STAGE 22
REFERENCE BURNOUT POINT ASSOCIATED WITH POST-COMBUSTION STAGE 23
BURNOUT POINT Z
STEAM FLOW RATE
OXYGEN CONCENTRATION
340
FIRST AIR AMOUNT CALCULATION UNIT
UPPER AND LOWER LIMITATIONS
350
FLOW RATE CONCENTRATION CALCULATION UNIT
TRANSMISSION OF SIGNAL RELATED TO CORRECTED AIR AMOUNT
TRANSMISSION OF SIGNAL RELATED TO CORRECTED AIR AMOUNT
TRANSMISSION OF SIGNAL RELATED TO CORRECTED AIR AMOUNT

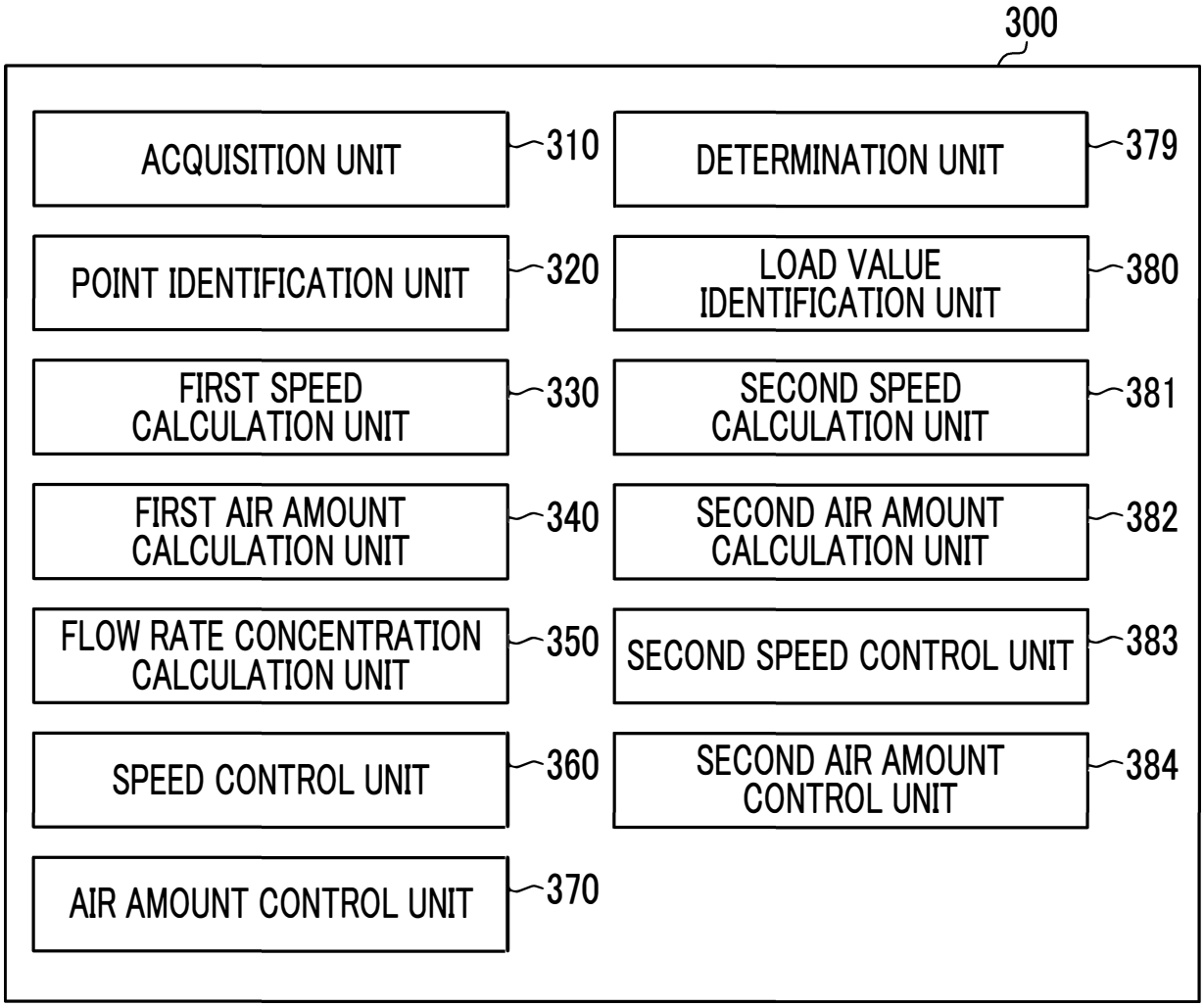

300
ACQUISITION UNIT
310
POINT IDENTIFICATION UNIT
320
FIRST SPEED CALCULATION UNIT
330
FIRST AIR AMOUNT CALCULATION UNIT
340
FLOW RATE CONCENTRATION CALCULATION UNIT
350
SPEED CONTROL UNIT
360
AIR AMOUNT CONTROL UNIT
370
DETERMINATION UNIT
379
LOAD VALUE IDENTIFICATION UNIT
380
SECOND SPEED CALCULATION UNIT
381
SECOND AIR AMOUNT CALCULATION UNIT
382
SECOND SPEED CONTROL UNIT
383
SECOND AIR AMOUNT CONTROL UNIT
384

FIG. 8

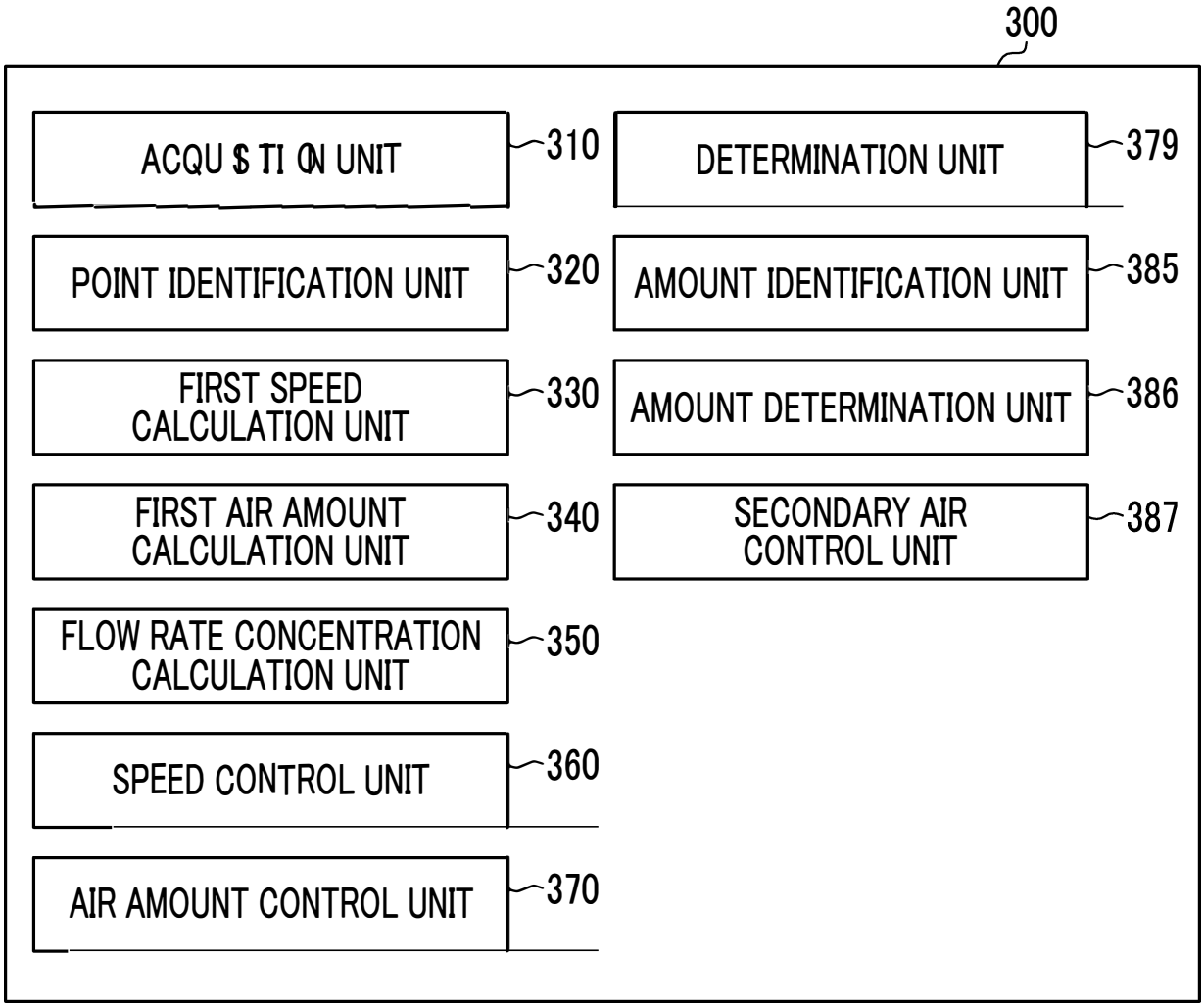

300
ACQUISITION UNIT
310
POINT IDENTIFICATION UNIT
320
FIRST SPEED CALCULATION UNIT
330
FIRST AIR AMOUNT CALCULATION UNIT
340
FLOW RATE CONCENTRATION CALCULATION UNIT
350
SPEED CONTROL UNIT
360
AIR AMOUNT CONTROL UNIT
370
DETERMINATION UNIT
379
AMOUNT IDENTIFICATION UNIT
385
AMOUNT DETERMINATION UNIT
386
SECONDARY AIR CONTROL UNIT
387

FIG. 9

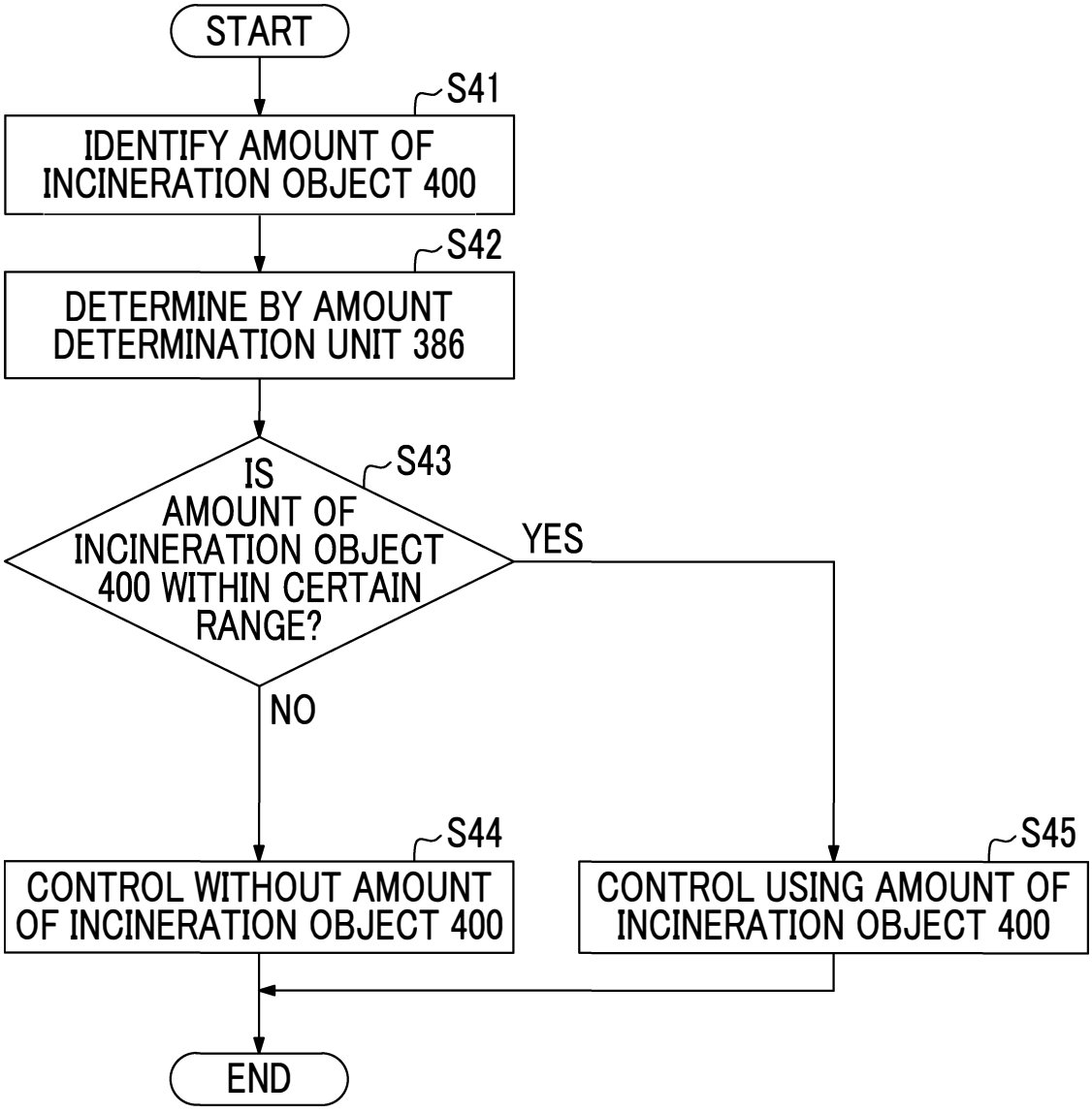

START
S41
IDENTIFY AMOUNT OF INCINERATION OBJECT 400
S42
DETERMINE BY AMOUNT DETERMINATION UNIT 386
S43
IS AMOUNT OF INCINERATION OBJECT 400 WITHIN CERTAIN RANGE?
YES
NO
S44
CONTROL WITHOUT AMOUNT OF INCINERATION OBJECT 400
S45
CONTROL USING AMOUNT OF INCINERATION OBJECT 400
END

FIG. 10

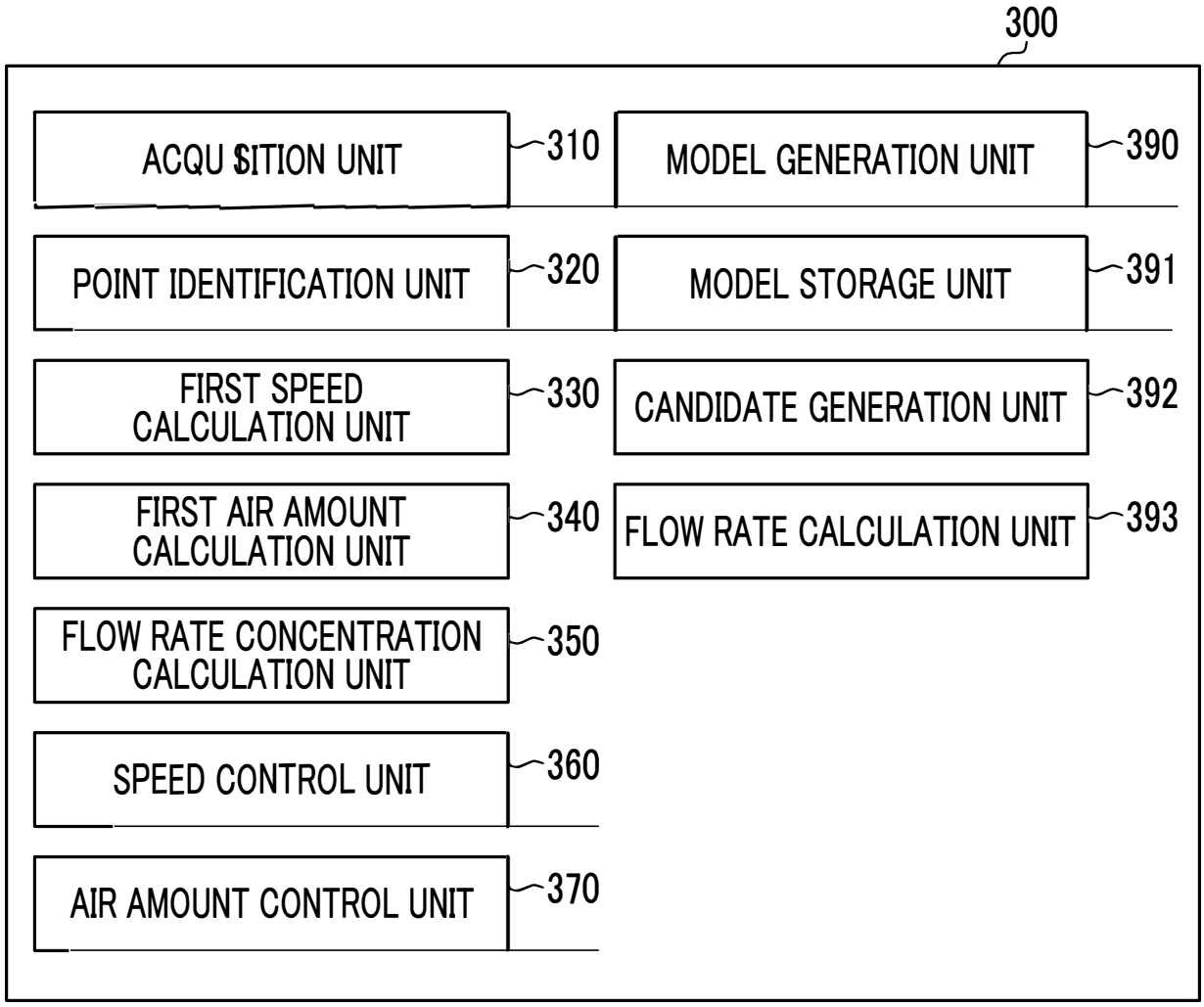

300
ACQUISITION UNIT
310
POINT IDENTIFICATION UNIT
320
FIRST SPEED CALCULATION UNIT
330
FIRST AIR AMOUNT CALCULATION UNIT
340
FLOW RATE CONCENTRATION CALCULATION UNIT
350
SPEED CONTROL UNIT
360
AIR AMOUNT CONTROL UNIT
370
MODEL GENERATION UNIT
390
MODEL STORAGE UNIT
391
CANDIDATE GENERATION UNIT
392
FLOW RATE CALCULATION UNIT
393

FIG. 11

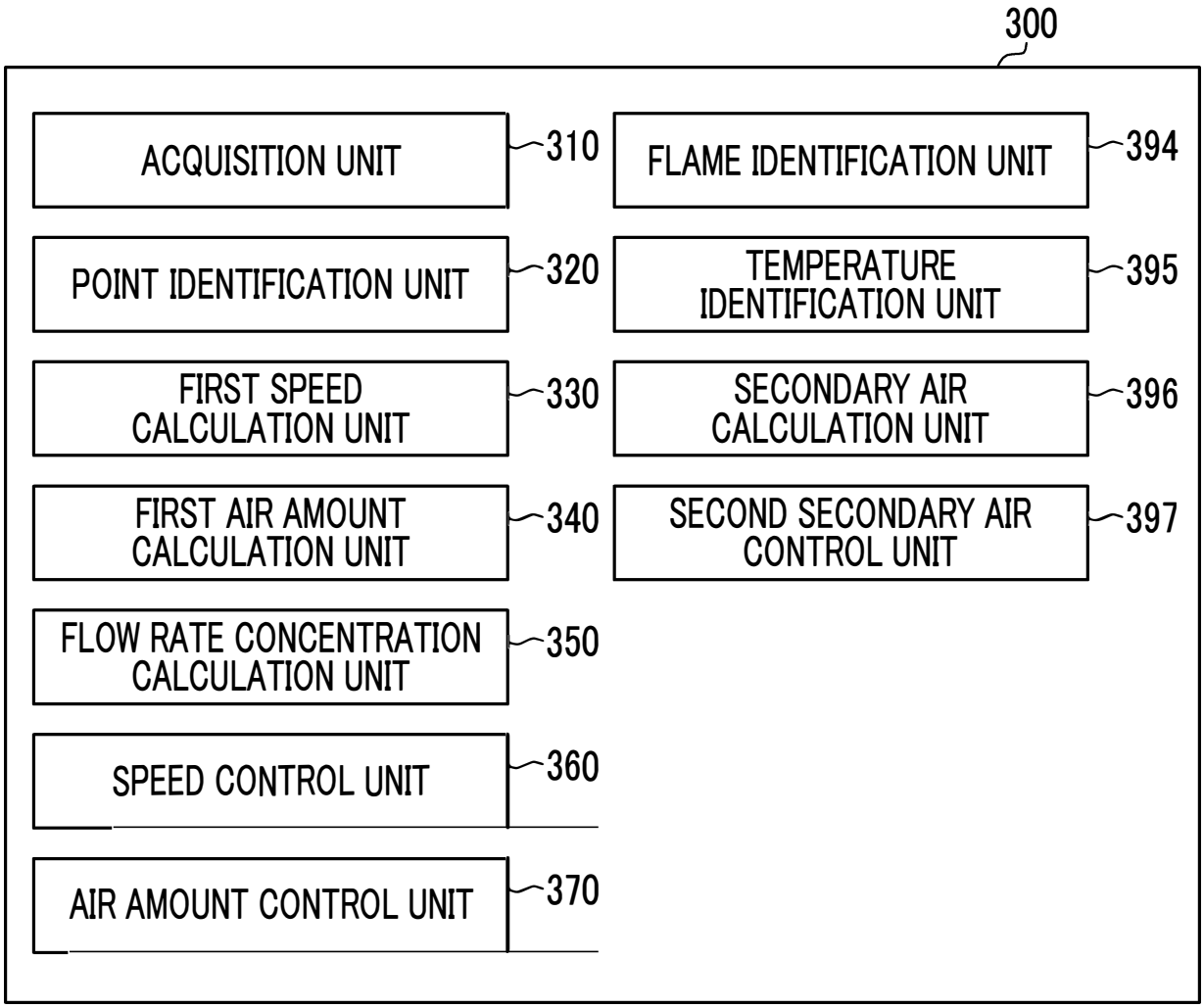

300
ACQUISITION UNIT
310
FLAME IDENTIFICATION UNIT
394
POINT IDENTIFICATION UNIT
320
TEMPERATURE IDENTIFICATION UNIT
395
FIRST SPEED CALCULATION UNIT
330
SECONDARY AIR CALCULATION UNIT
396
FIRST AIR AMOUNT CALCULATION UNIT
340
SECOND SECONDARY AIR CONTROL UNIT
397
FLOW RATE CONCENTRATION CALCULATION UNIT
350
SPEED CONTROL UNIT
360
AIR AMOUNT CONTROL UNIT
370

FIG. 12

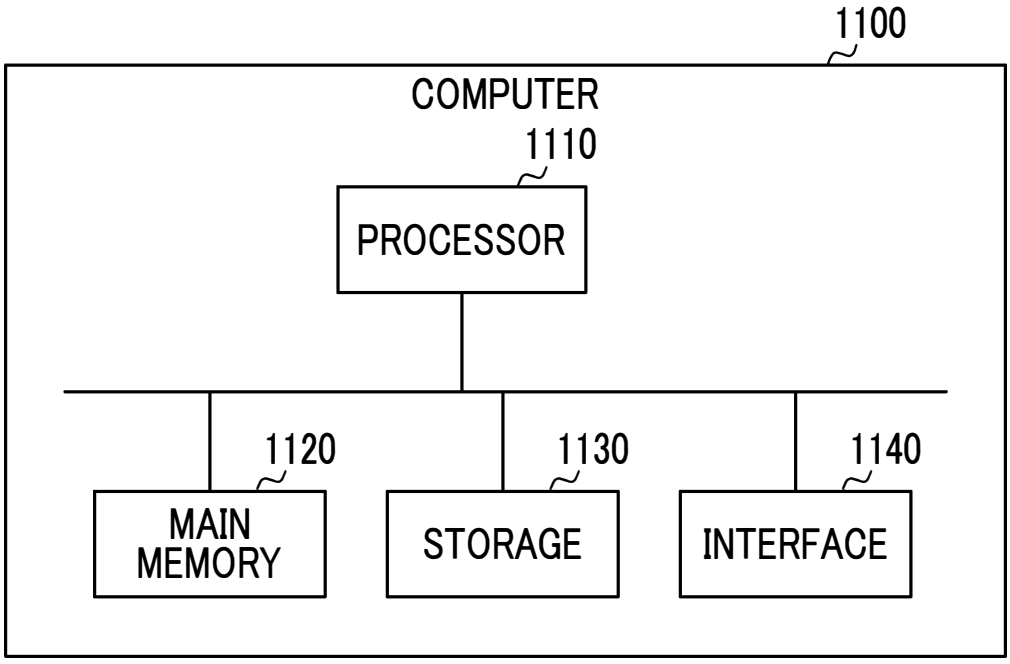

1100
COMPUTER
1110
PROCESSOR
1120
MAIN MEMORY
1130
STORAGE
1140
INTERFACE

FIG. 13