Fig. 1

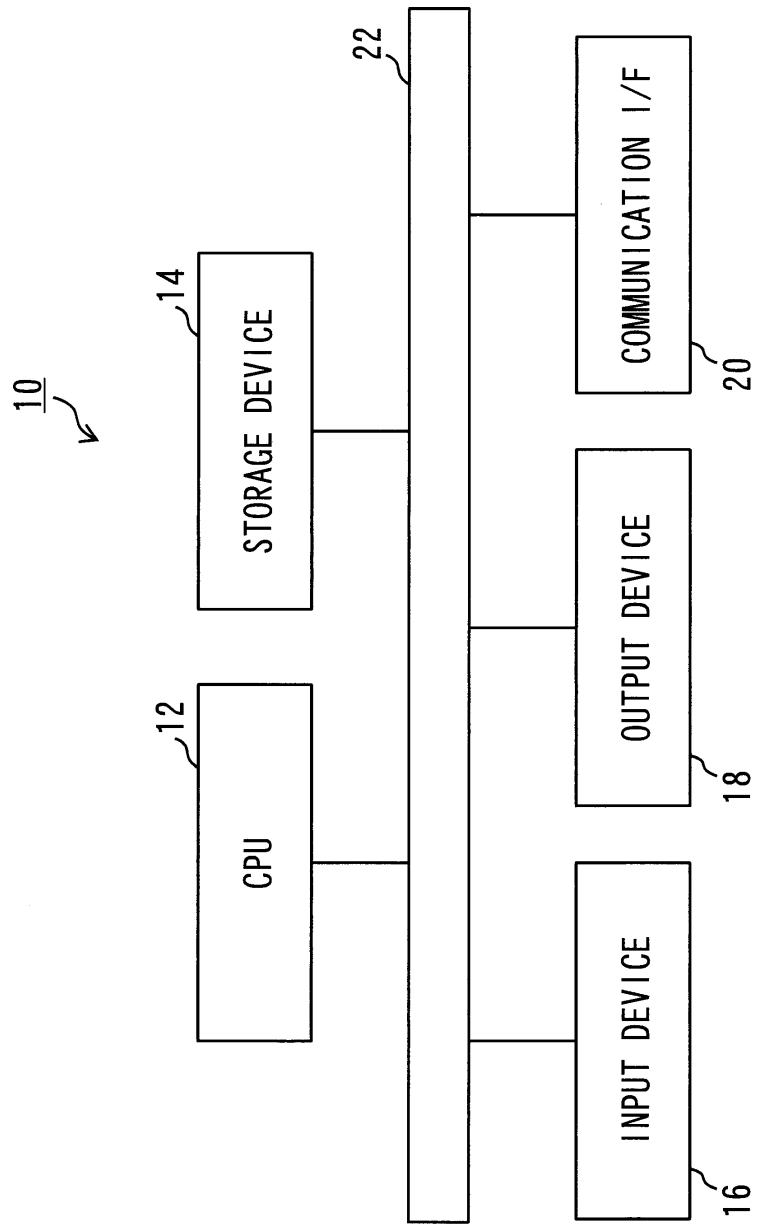

10
12
CPU
14
STORAGE DEVICE
16
INPUT DEVICE
18
OUTPUT DEVICE
20
COMMUNICATION I/F
22

Fig. 2

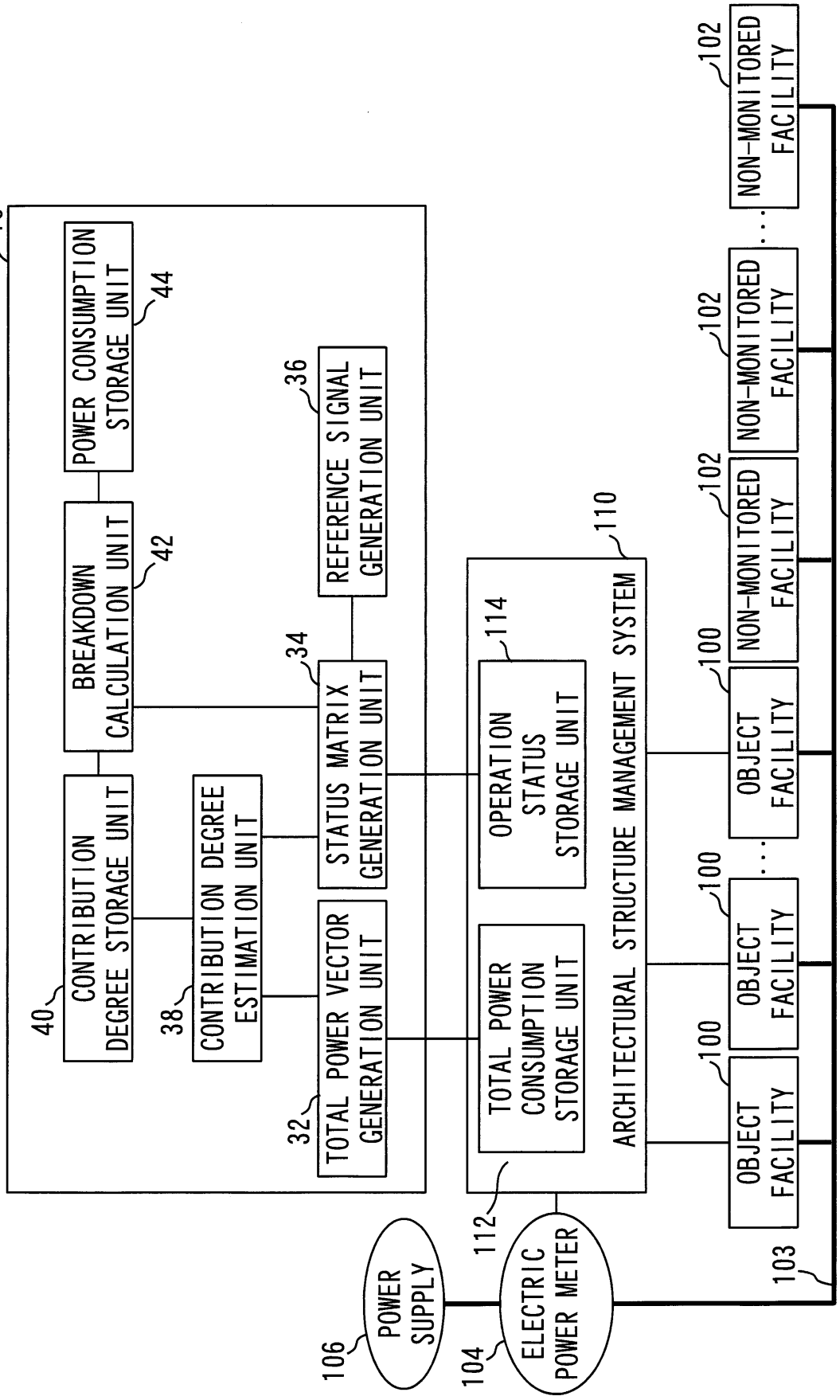

10
CONTRIBUTION DEGREE STORAGE UNIT
40
BREAKDOWN CALCULATION UNIT
42
POWER CONSUMPTION STORAGE UNIT
44
CONTRIBUTION DEGREE ESTIMATION UNIT
38
STATUS MATRIX GENERATION UNIT
34
REFERENCE SIGNAL GENERATION UNIT
36
TOTAL POWER VECTOR GENERATION UNIT
32
TOTAL POWER CONSUMPTION STORAGE UNIT
OPERATION STATUS STORAGE UNIT
114
112
ARCHITECTURAL STRUCTURE MANAGEMENT SYSTEM
110
POWER SUPPLY
106
ELECTRIC POWER METER
104
OBJECT FACILITY
100
NON-MONITORED FACILITY
102
103

Fig. 3

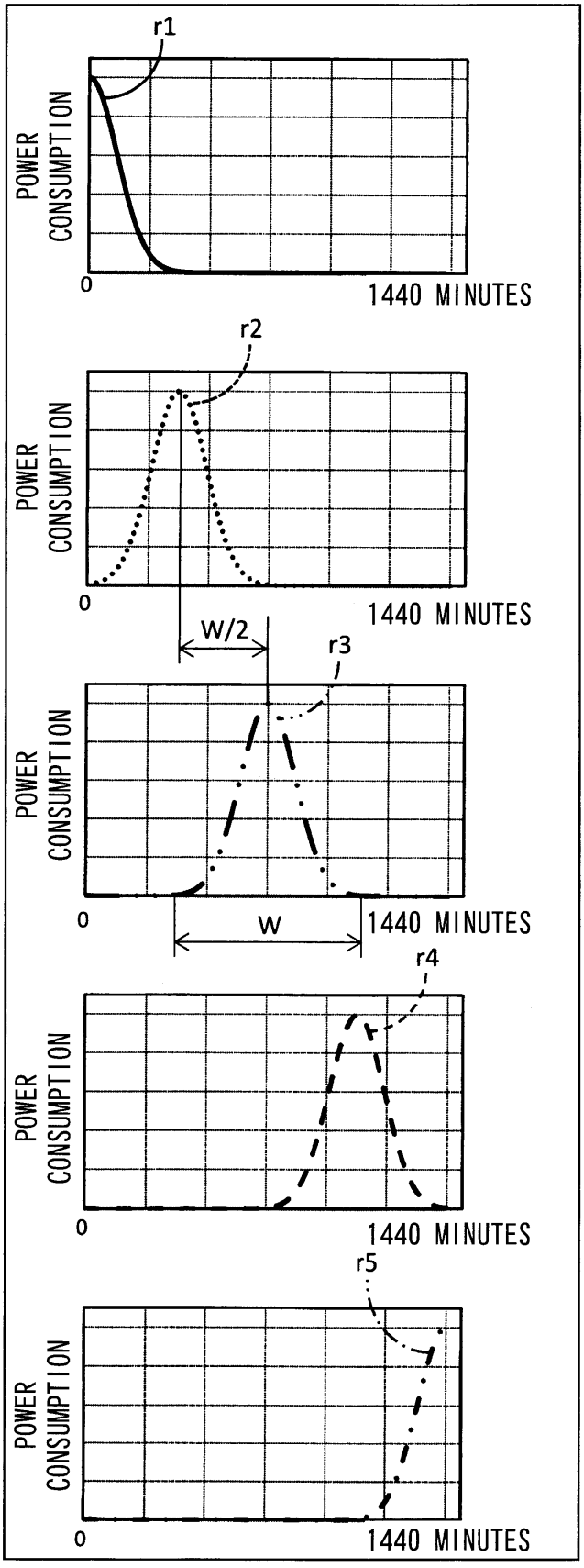

r1
POWER CONSUMPTION
0
1440 MINUTES
r2
POWER CONSUMPTION
0
1440 MINUTES
W/2
r3
POWER CONSUMPTION
0
W
1440 MINUTES
r4
POWER CONSUMPTION
0
1440 MINUTES
r5
POWER CONSUMPTION
0
1440 MINUTES

Fig. 4

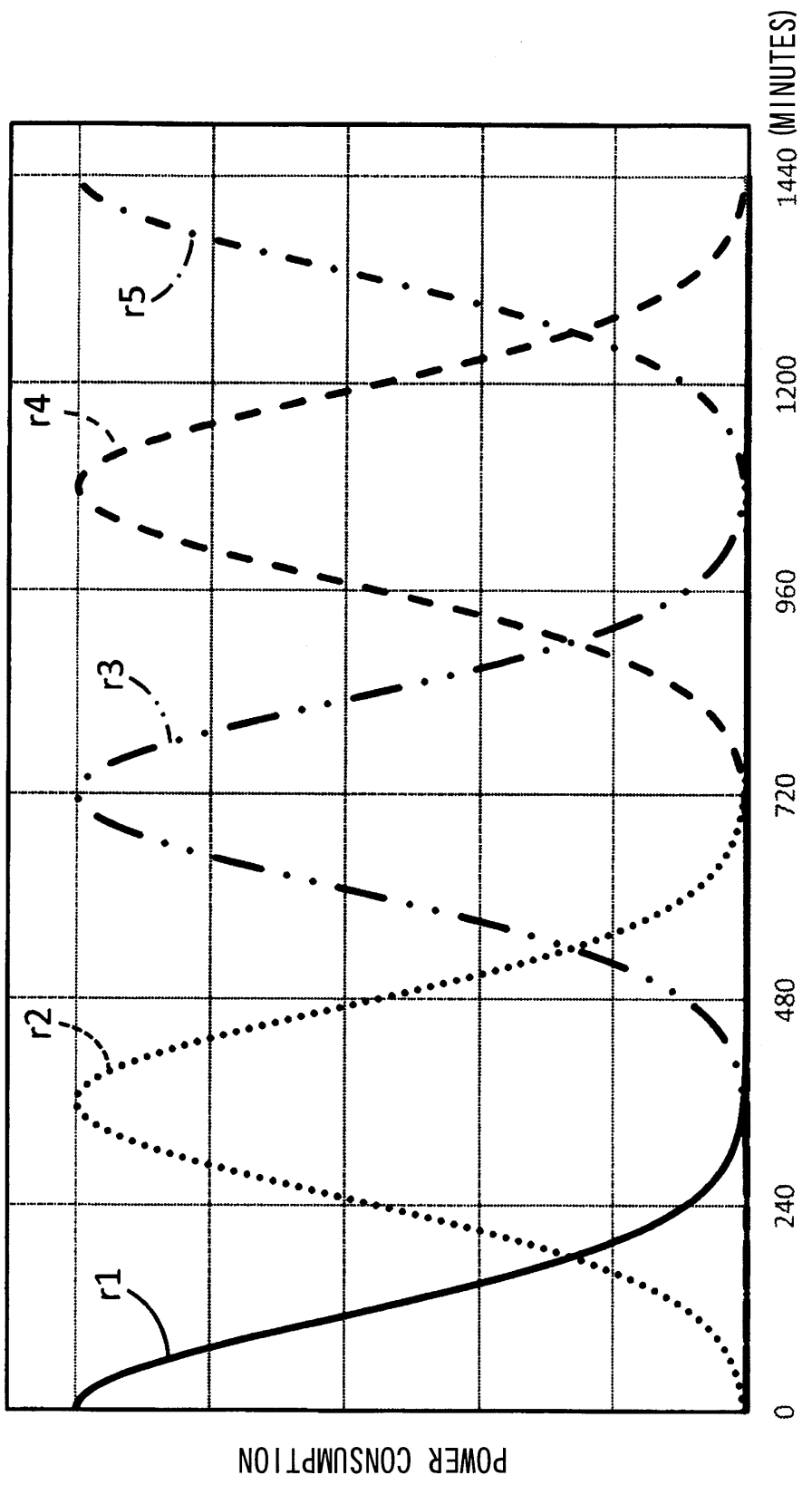

POWER CONSUMPTION
0
240
480
720
960
1200
1440 (MINUTES)
r1
r2
r3
r4
r5

Fig. 5

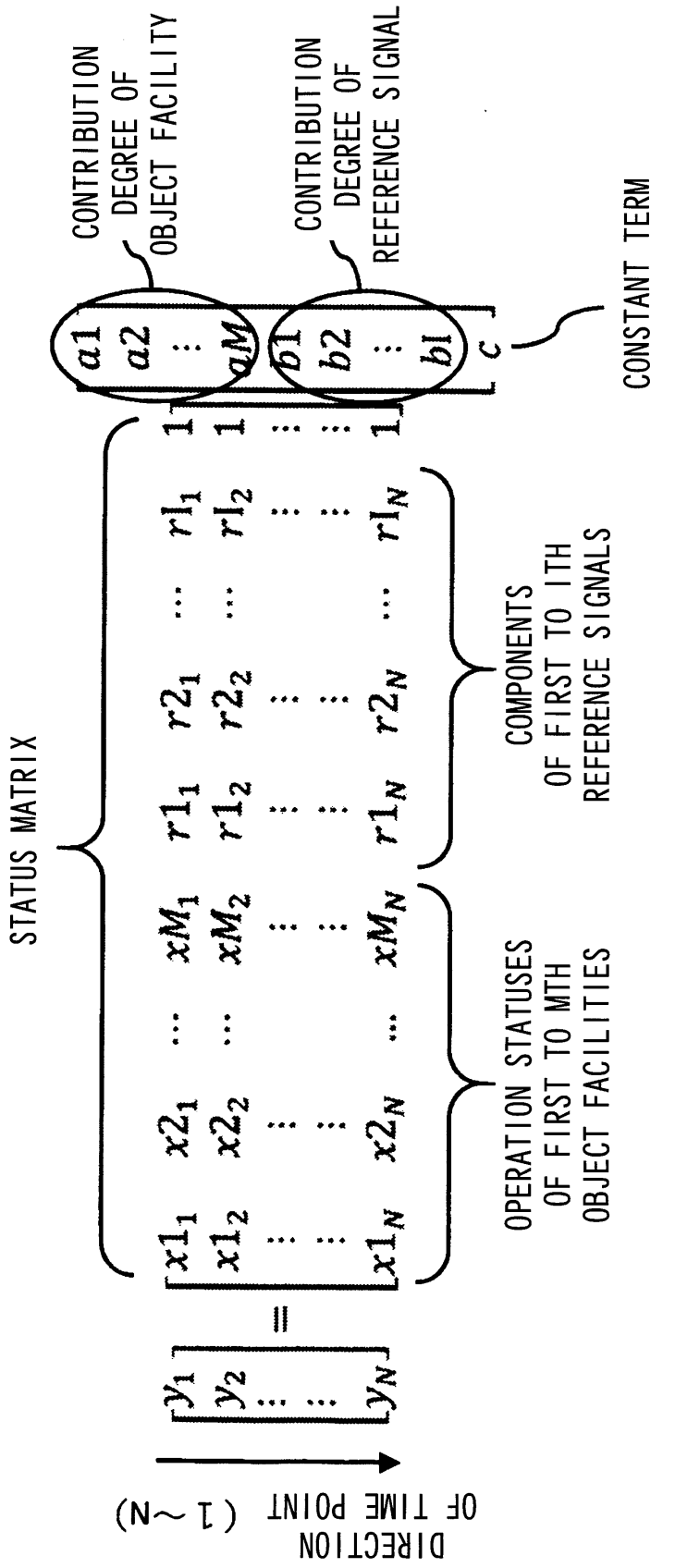

DIRECTION OF TIME POINT (1 ~ N)
STATUS MATRIX
OPERATION STATUSES OF FIRST TO MTH OBJECT FACILITIES
COMPONENTS OF FIRST TO ITH REFERENCE SIGNALS
CONTRIBUTION DEGREE OF OBJECT FACILITY
CONTRIBUTION DEGREE OF REFERENCE SIGNAL
CONSTANT TERM

Fig. 6

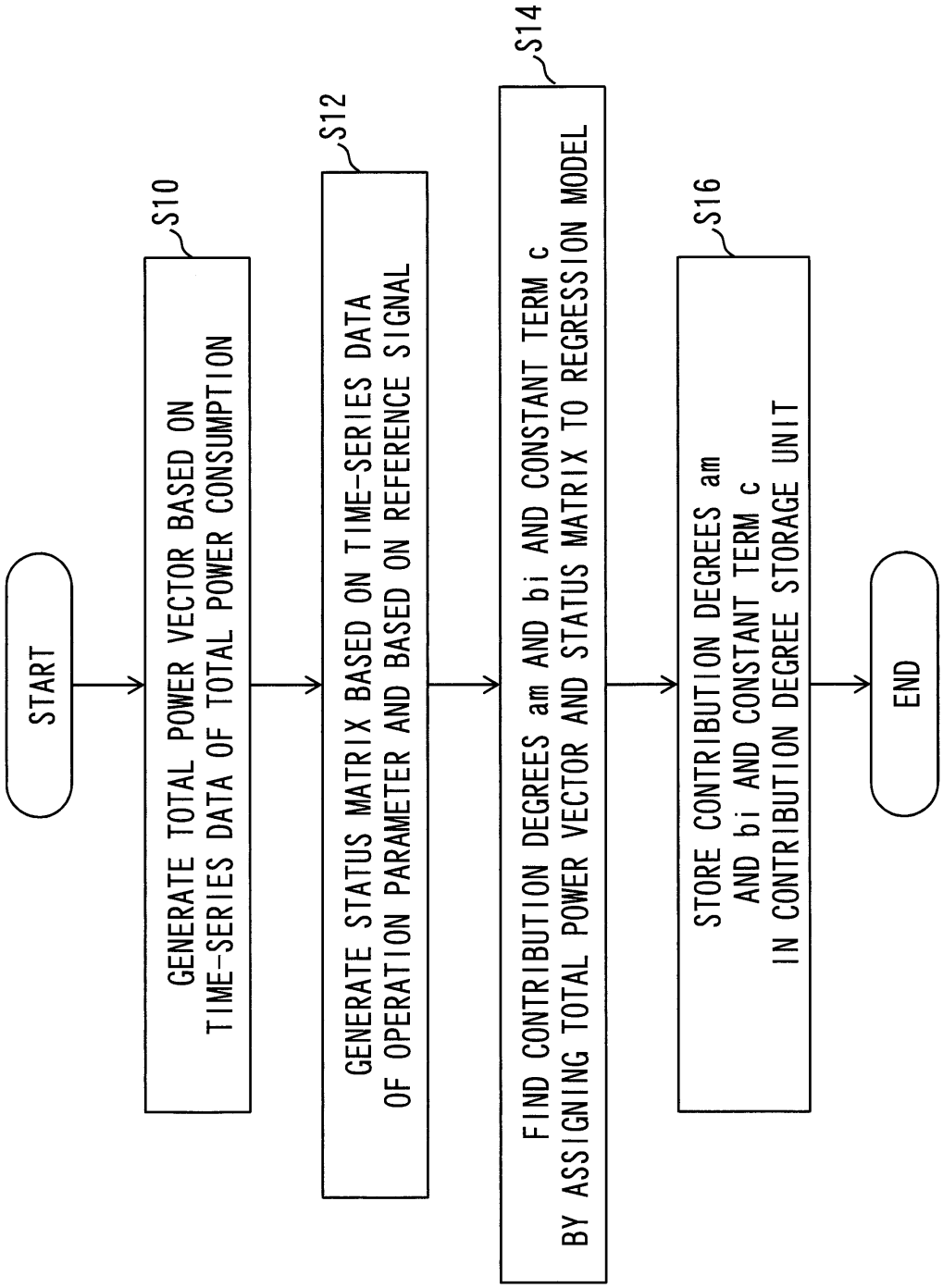

START
S10
GENERATE TOTAL POWER VECTOR BASED ON TIME-SERIES DATA OF TOTAL POWER CONSUMPTION
S12
GENERATE STATUS MATRIX BASED ON TIME-SERIES DATA OF OPERATION PARAMETER AND BASED ON REFERENCE SIGNAL
S14
FIND CONTRIBUTION DEGREES am AND bi AND CONSTANT TERM c BY ASSIGNING TOTAL POWER VECTOR AND STATUS MATRIX TO REGRESSION MODEL
S16
STORE CONTRIBUTION DEGREES am AND bi AND CONSTANT TERM c IN CONTRIBUTION DEGREE STORAGE UNIT
END

Fig. 7

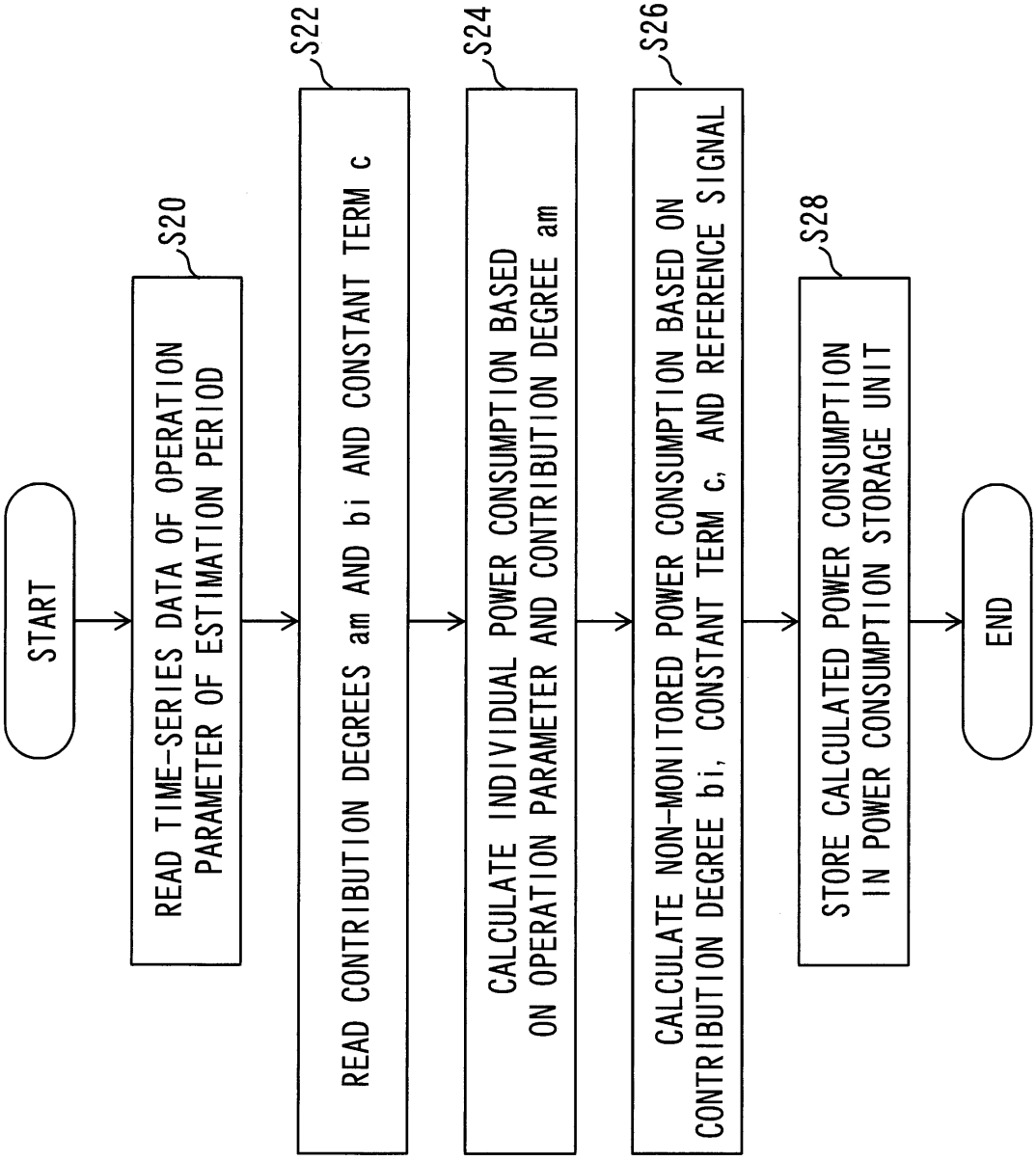

START
S20
READ TIME-SERIES DATA OF OPERATION PARAMETER OF ESTIMATION PERIOD
S22
READ CONTRIBUTION DEGREES am AND bi AND CONSTANT TERM c
S24
CALCULATE INDIVIDUAL POWER CONSUMPTION BASED ON OPERATION PARAMETER AND CONTRIBUTION DEGREE am
S26
CALCULATE NON-MONITORED POWER CONSUMPTION BASED ON CONTRIBUTION DEGREE bi, CONSTANT TERM c, AND REFERENCE SIGNAL
S28
STORE CALCULATED POWER CONSUMPTION IN POWER CONSUMPTION STORAGE UNIT
END

Fig. 8

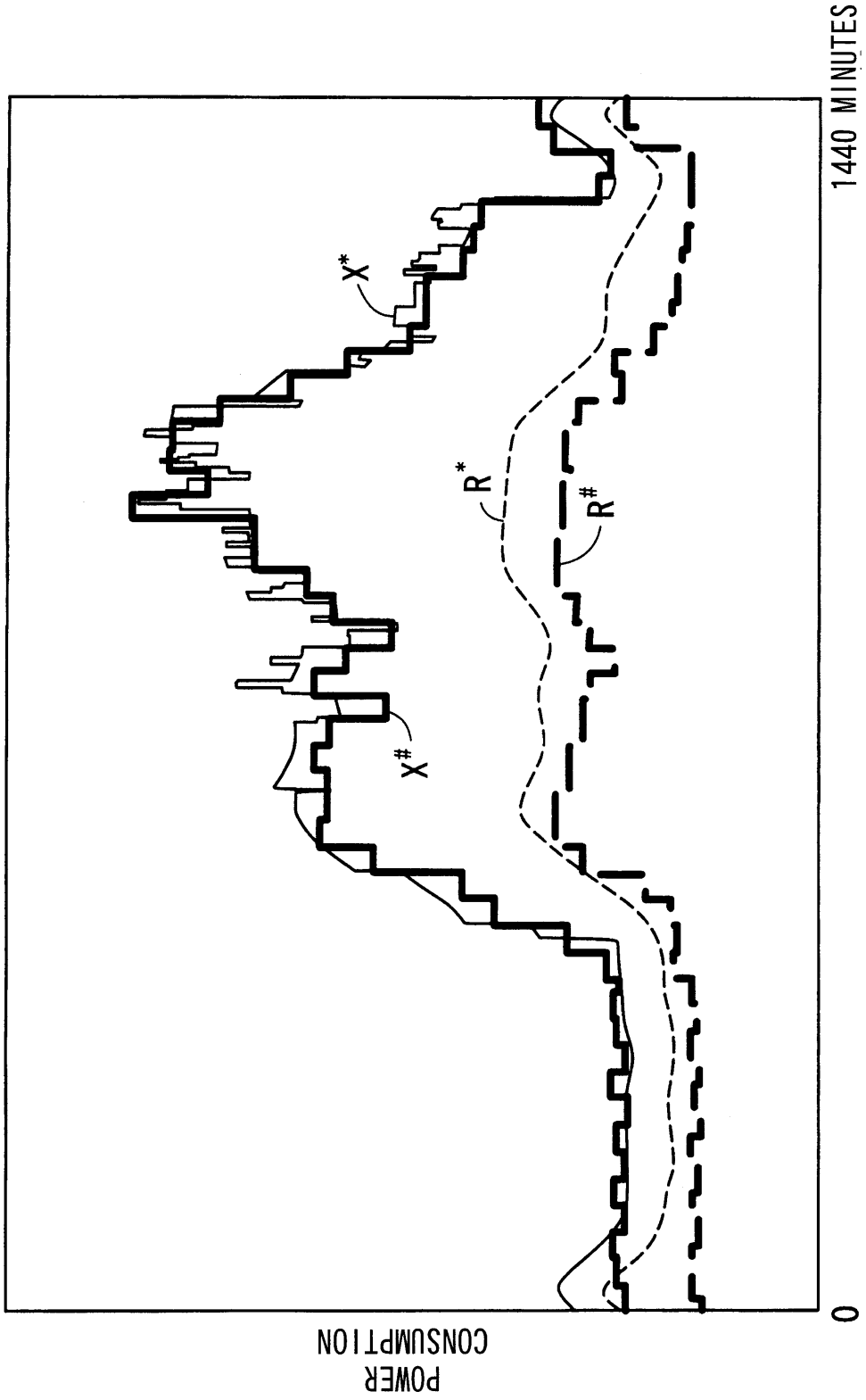


Fig. 9

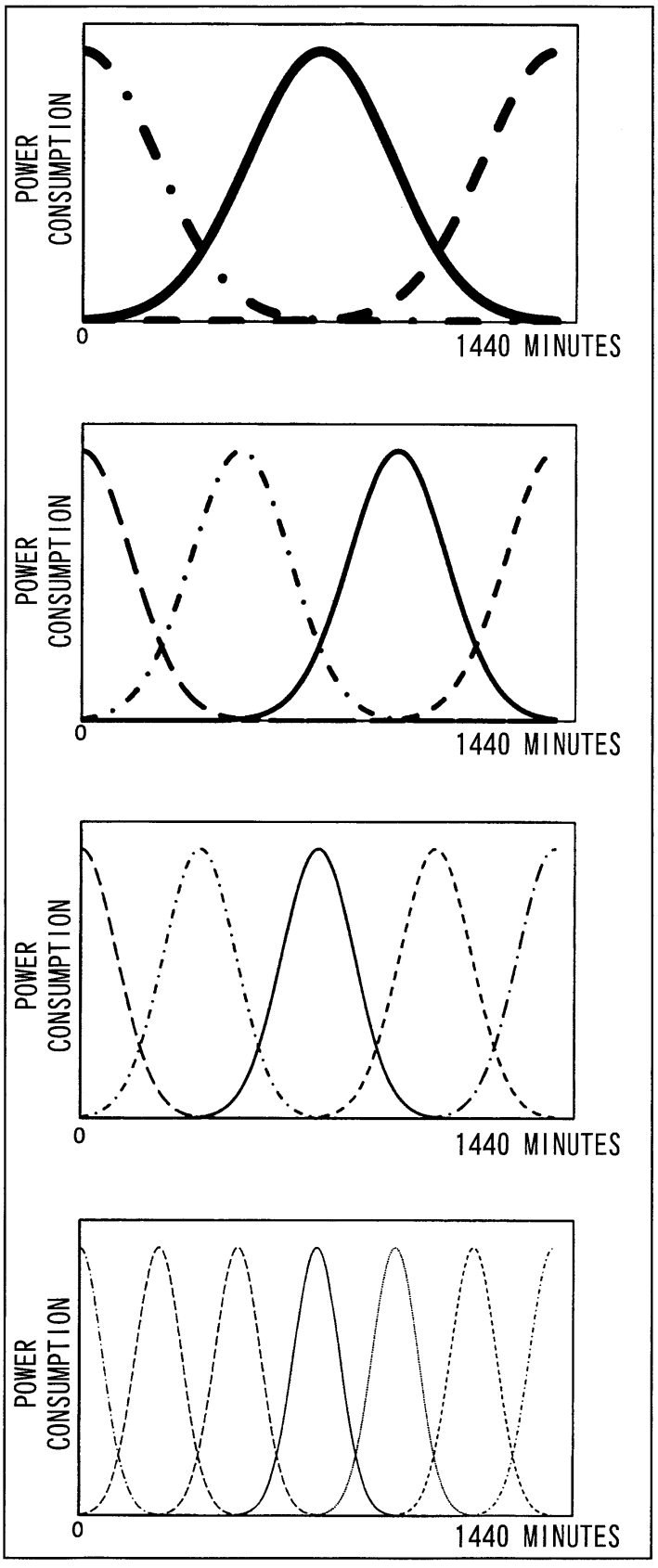

POWER CONSUMPTION
0
1440 MINUTES
POWER CONSUMPTION
0
1440 MINUTES
POWER CONSUMPTION
0
1440 MINUTES
POWER CONSUMPTION
0
1440 MINUTES

Fig. 10

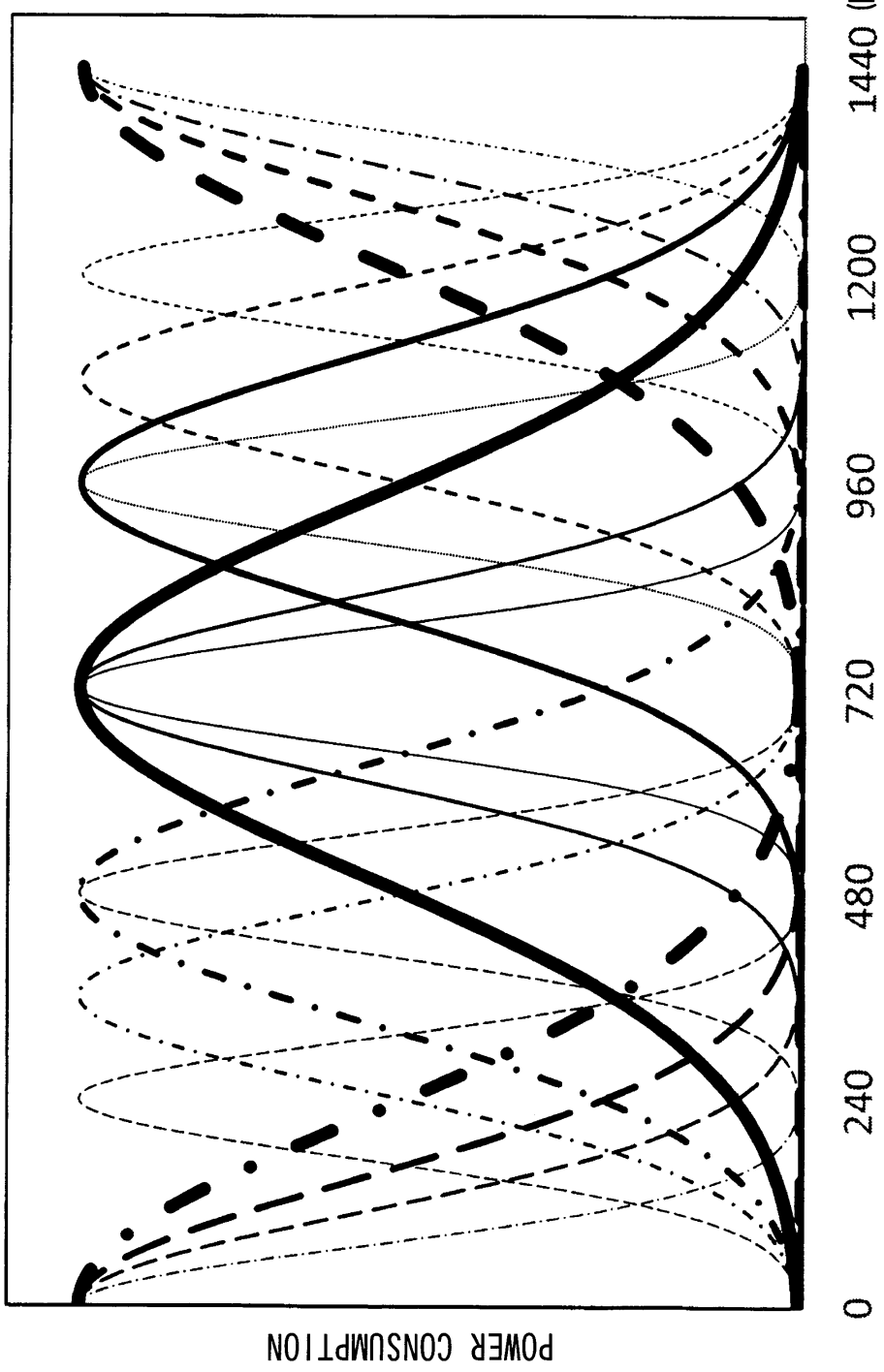


Fig. 11

