FIG.1

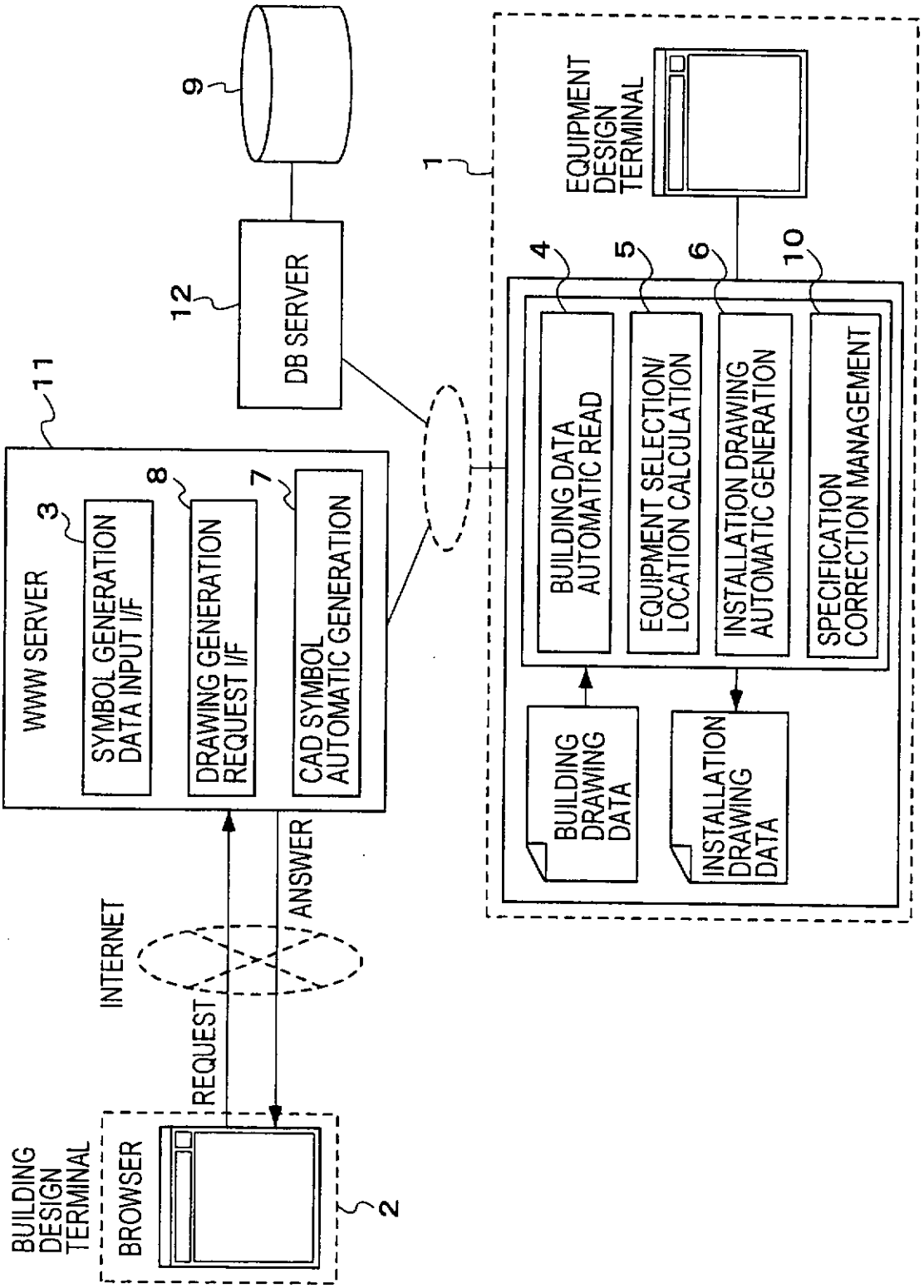
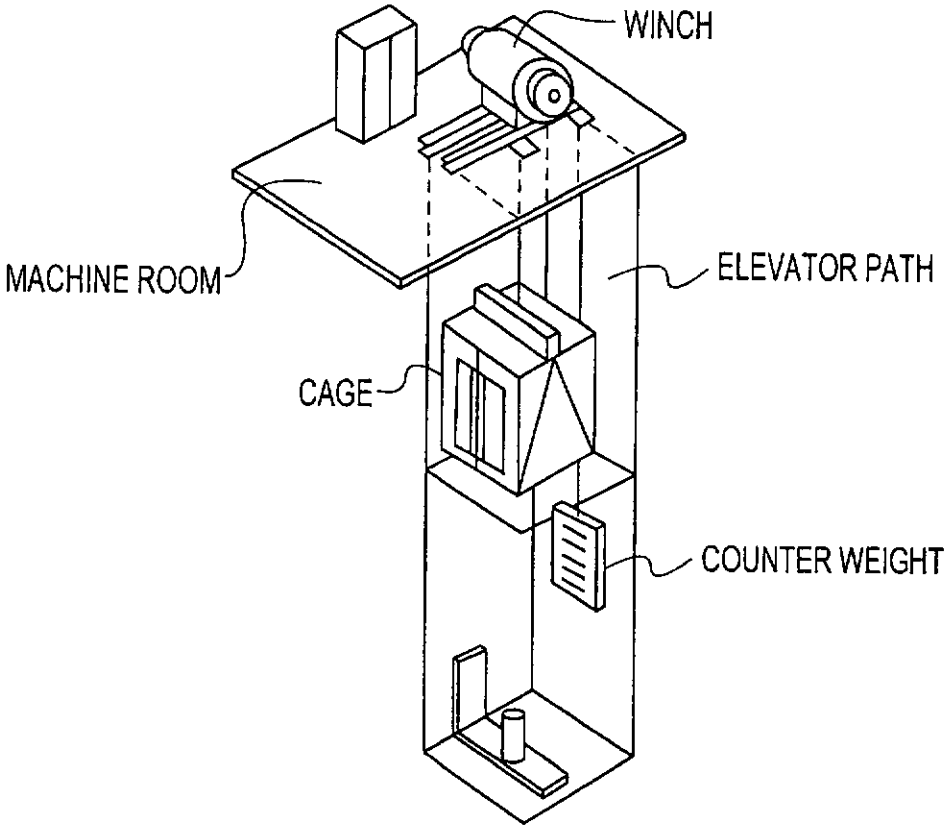

9
1
EQUIPMENT DESIGN TERMINAL
12
DB SERVER
4
5
6
10
BUILDING DATA AUTOMATIC READ
EQUIPMENT SELECTION/ LOCATION CALCULATION
INSTALLATION DRAWING AUTOMATIC GENERATION
SPECIFICATION CORRECTION MANAGEMENT
11
WWW SERVER
3
SYMBOL GENERATION DATA INPUT I/F
8
DRAWING GENERATION REQUEST I/F
7
CAD SYMBOL AUTOMATIC GENERATION
BUILDING DRAWING DATA
INSTALLATION DRAWING DATA
INTERNET
REQUEST
ANSWER
BUILDING DESIGN TERMINAL
BROWSER
2

FIG.2




ELEVATOR PATH PLANE

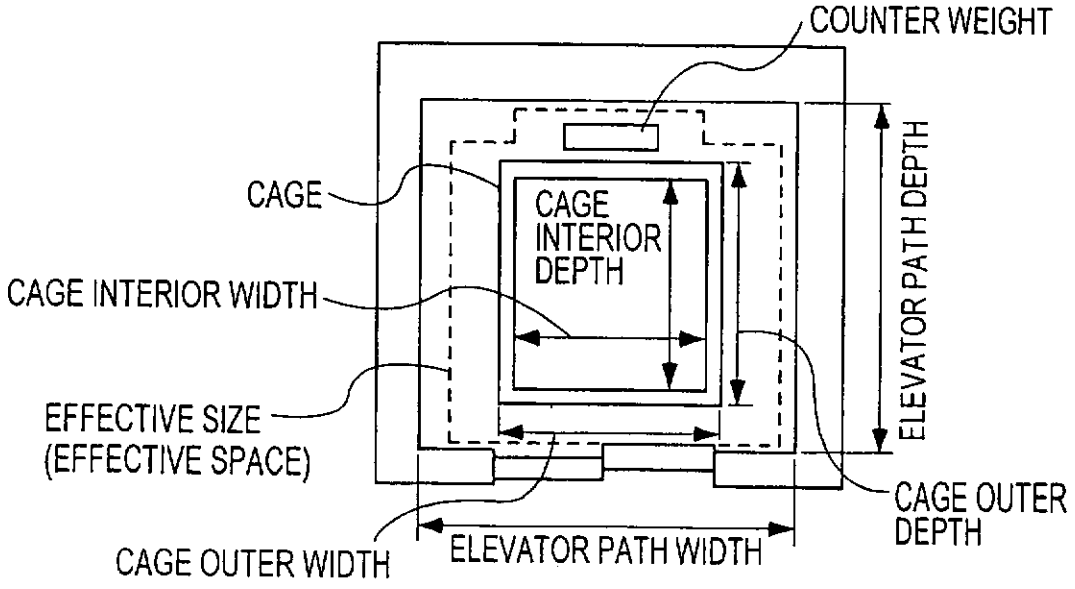
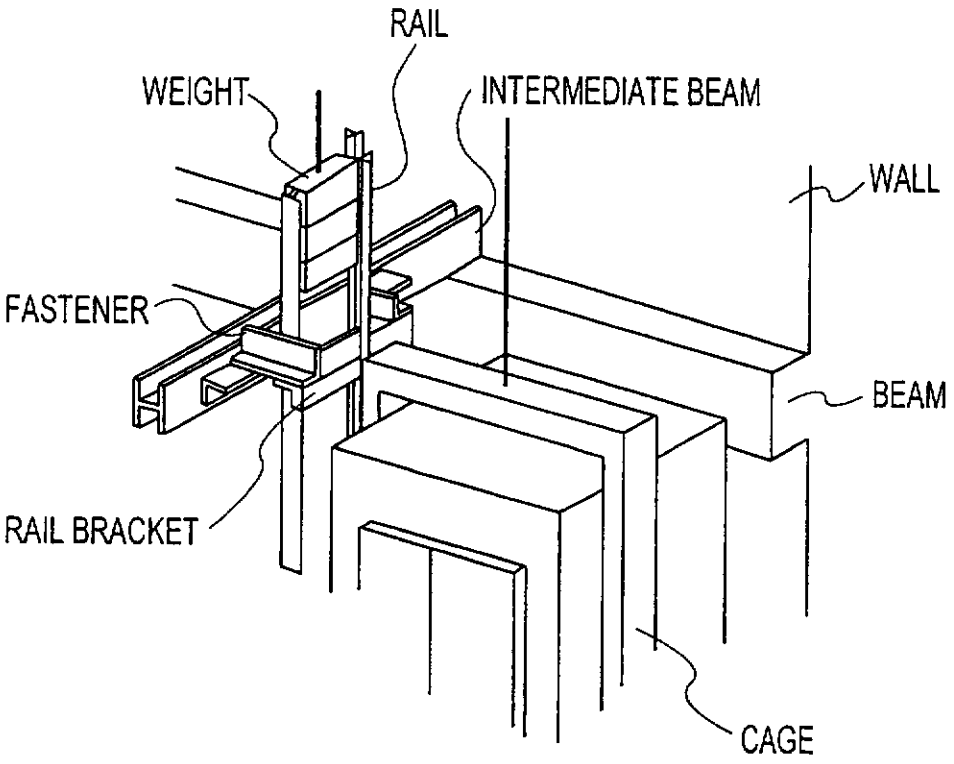


FIG.3




EXAMPLE OF FIXING STRUCTURE

FIG.4

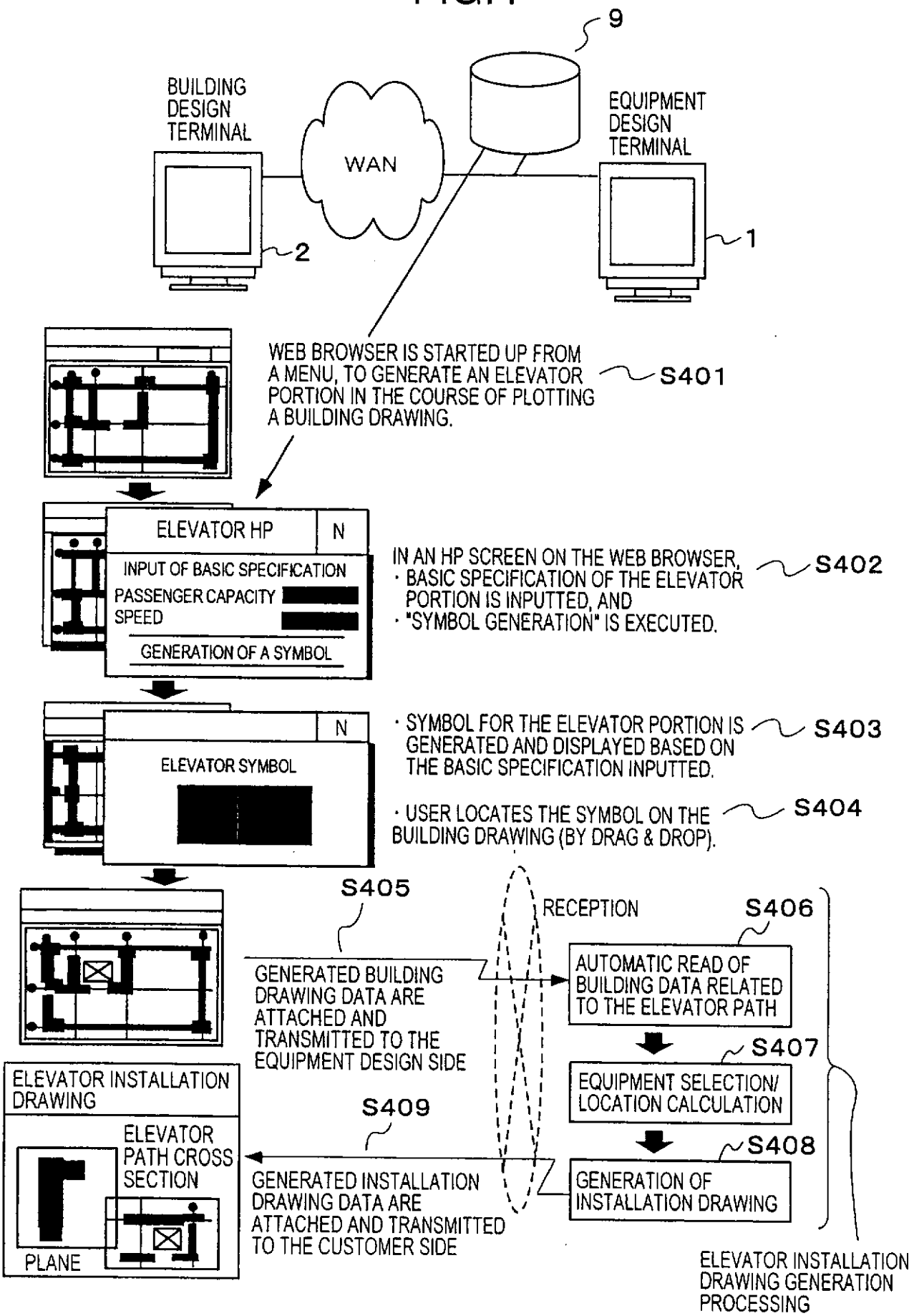

9
BUILDING DESIGN TERMINAL
WAN
EQUIPMENT DESIGN TERMINAL
2
1
WEB BROWSER IS STARTED UP FROM A MENU, TO GENERATE AN ELEVATOR PORTION IN THE COURSE OF PLOTTING A BUILDING DRAWING.
S401
ELEVATOR HP
N
INPUT OF BASIC SPECIFICATION
PASSENGER CAPACITY
SPEED
GENERATION OF A SYMBOL
IN AN HP SCREEN ON THE WEB BROWSER,
· BASIC SPECIFICATION OF THE ELEVATOR PORTION IS INPUTTED, AND
· "SYMBOL GENERATION" IS EXECUTED.
S402
N
ELEVATOR SYMBOL
· SYMBOL FOR THE ELEVATOR PORTION IS GENERATED AND DISPLAYED BASED ON THE BASIC SPECIFICATION INPUTTED.
S403
· USER LOCATES THE SYMBOL ON THE BUILDING DRAWING (BY DRAG & DROP).
S404
S405
GENERATED BUILDING DRAWING DATA ARE ATTACHED AND TRANSMITTED TO THE EQUIPMENT DESIGN SIDE
RECEPTION
S406
AUTOMATIC READ OF BUILDING DATA RELATED TO THE ELEVATOR PATH
S407
EQUIPMENT SELECTION/ LOCATION CALCULATION
S408
GENERATION OF INSTALLATION DRAWING
S409
GENERATED INSTALLATION DRAWING DATA ARE ATTACHED AND TRANSMITTED TO THE CUSTOMER SIDE
ELEVATOR INSTALLATION DRAWING
ELEVATOR PATH CROSS SECTION
PLANE
ELEVATOR INSTALLATION DRAWING GENERATION PROCESSING

FIG.5

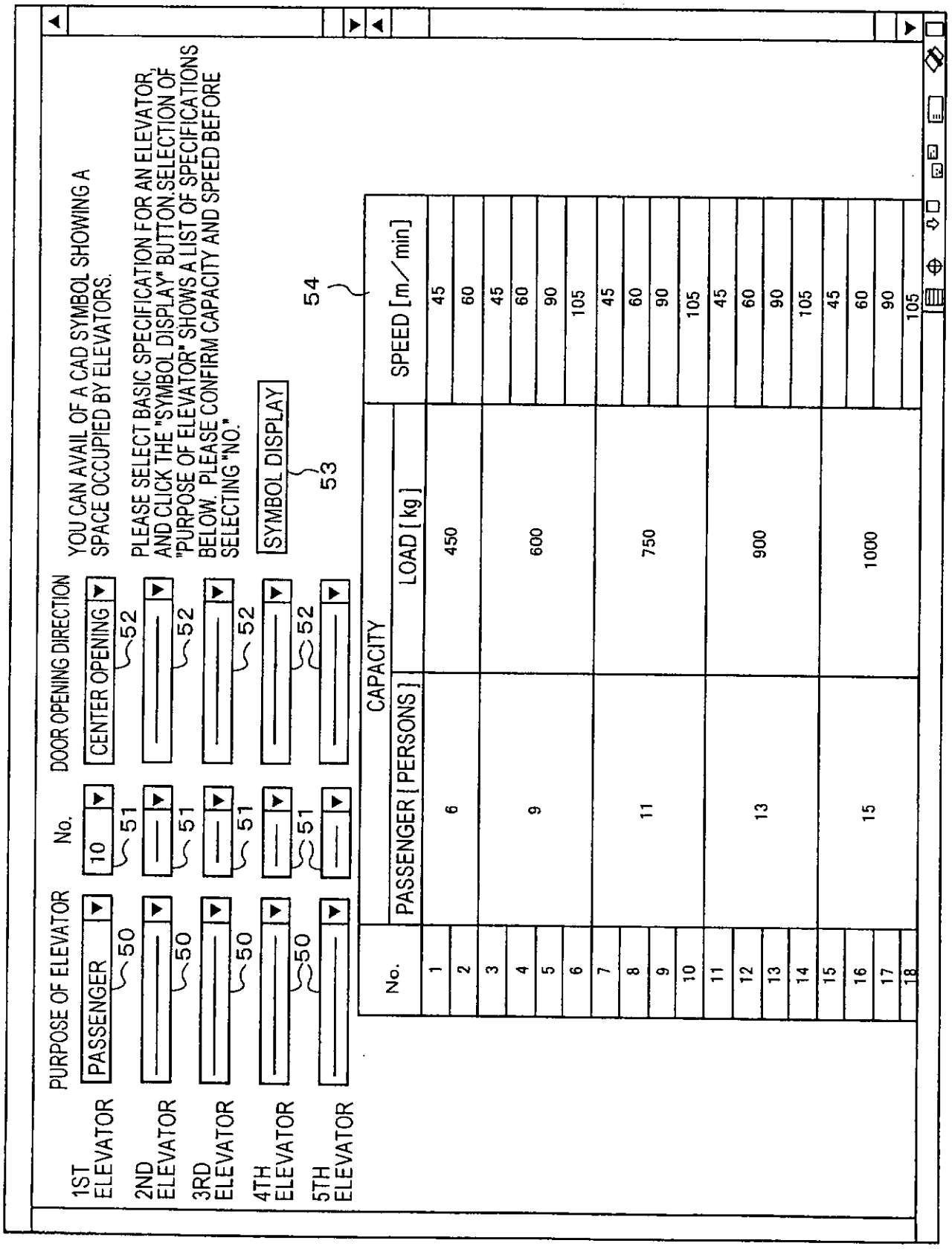

PURPOSE OF ELEVATOR
No.
DOOR OPENING DIRECTION
1ST ELEVATOR
PASSENGER
10
CENTER OPENING
2ND ELEVATOR
3RD ELEVATOR
4TH ELEVATOR
5TH ELEVATOR
50
51
52
YOU CAN AVAIL OF A CAD SYMBOL SHOWING A SPACE OCCUPIED BY ELEVATORS.
PLEASE SELECT BASIC SPECIFICATION FOR AN ELEVATOR, AND CLICK THE "SYMBOL DISPLAY" BUTTON.SELECTION OF "PURPOSE OF ELEVATOR" SHOWS A LIST OF SPECIFICATIONS BELOW. PLEASE CONFIRM CAPACITY AND SPEED BEFORE SELECTING "NO."
SYMBOL DISPLAY
53
54
CAPACITY
No.
PASSENGER [ PERSONS ]
LOAD [ kg ]
SPEED [m／min]
1 2 6 450 45
2 60
3 4 5 6 9 600 45
4 60
5 90
6 105
7 8 9 10 11 750 45
8 60
9 90
10 105
11 12 13 14 900 45
12 60
13 90
14 105
15 16 17 18 15 1000 45
16 60
17 90
18 105

FIG.6

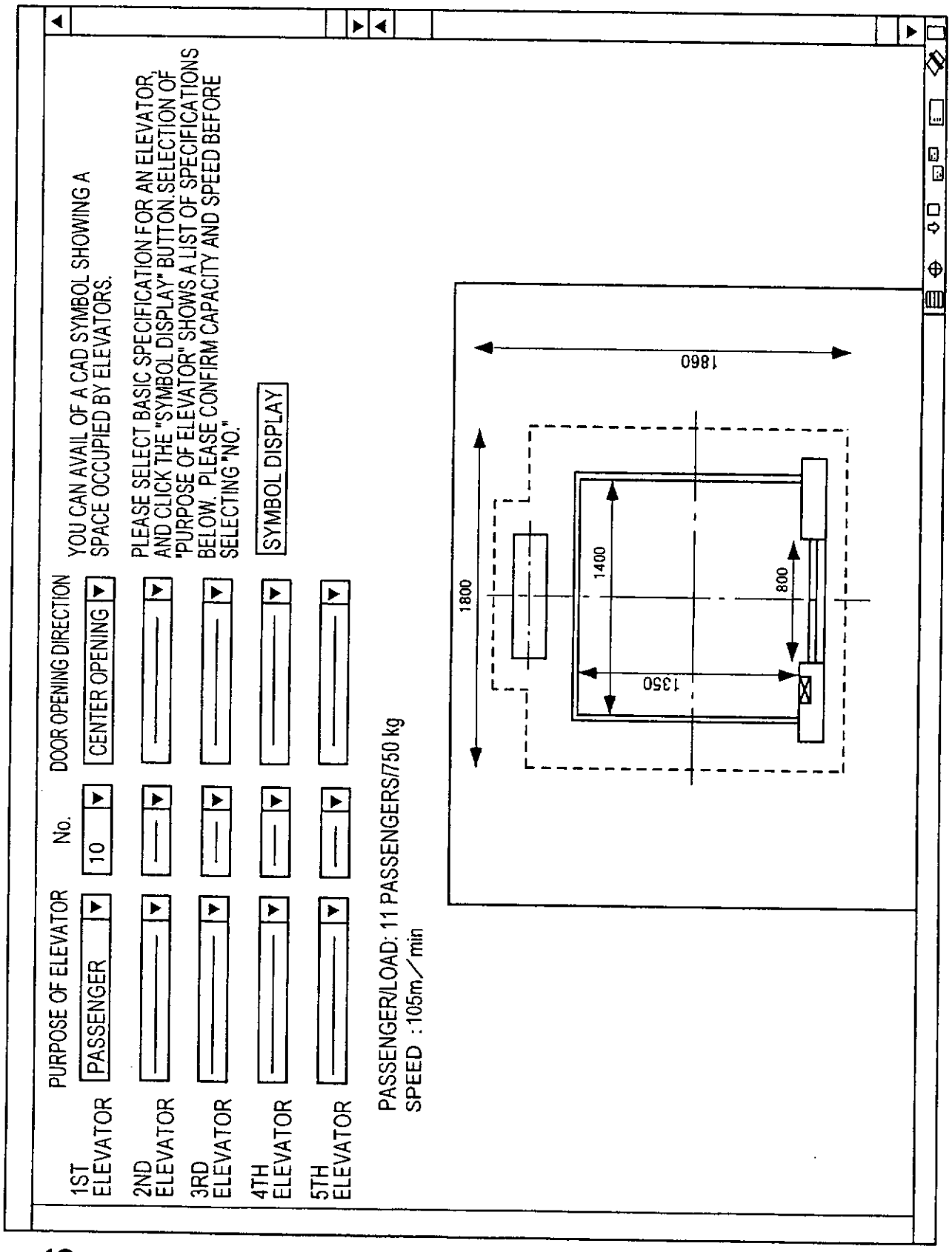

PURPOSE OF ELEVATOR
No.
DOOR OPENING DIRECTION
1ST ELEVATOR
PASSENGER
10
CENTER OPENING
2ND ELEVATOR
3RD ELEVATOR
4TH ELEVATOR
5TH ELEVATOR
YOU CAN AVAIL OF A CAD SYMBOL SHOWING A SPACE OCCUPIED BY ELEVATORS.
PLEASE SELECT BASIC SPECIFICATION FOR AN ELEVATOR, AND CLICK THE "SYMBOL DISPLAY" BUTTON.SELECTION OF "PURPOSE OF ELEVATOR" SHOWS A LIST OF SPECIFICATIONS BELOW. PLEASE CONFIRM CAPACITY AND SPEED BEFORE SELECTING "NO."
SYMBOL DISPLAY
PASSENGER/LOAD: 11 PASSENGERS/750 kg
SPEED : 105m/min
1860
1800
1400
800
1350

FIG.7

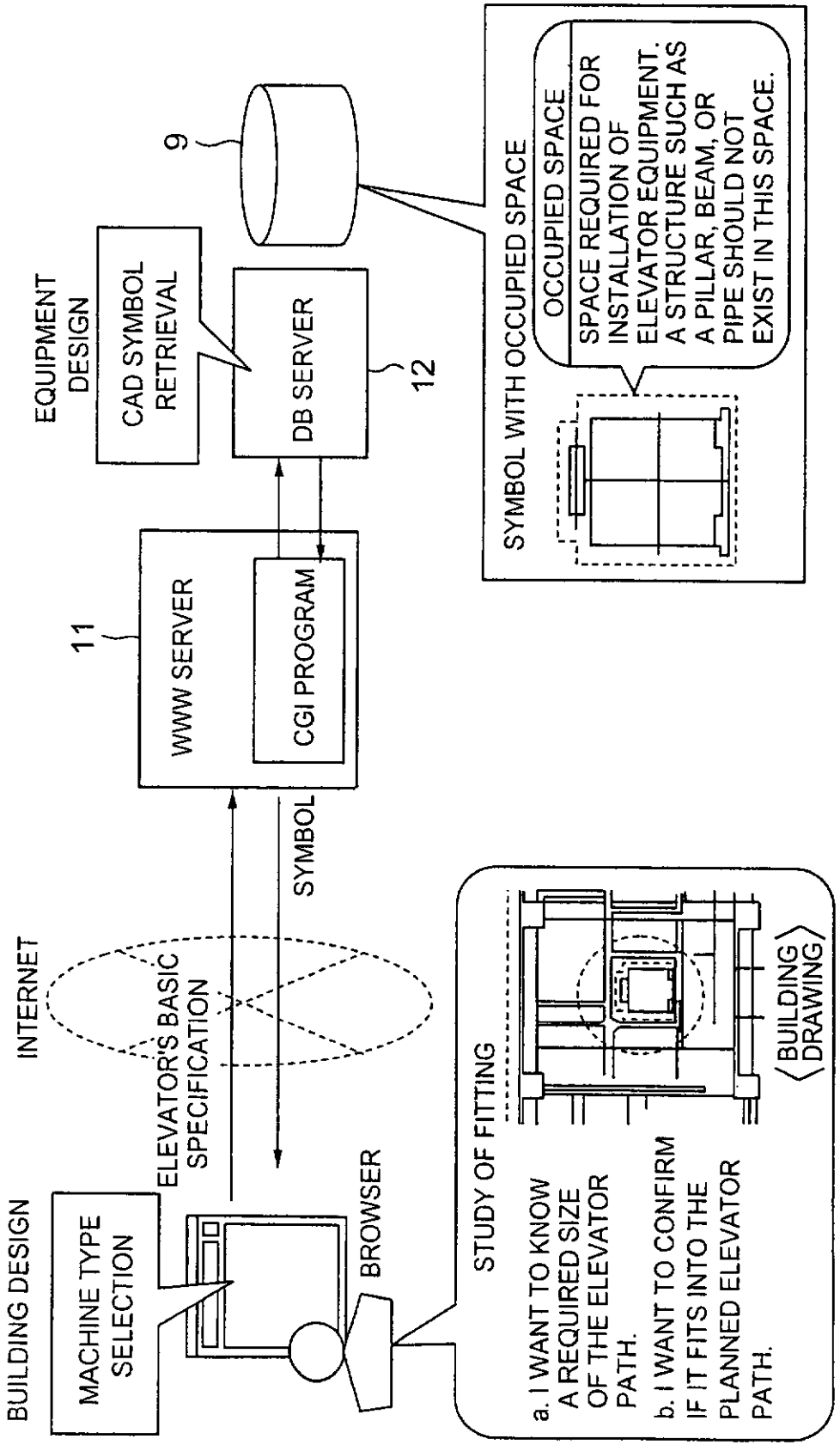

BUILDING DESIGN
MACHINE TYPE SELECTION
BROWSER
INTERNET
ELEVATOR'S BASIC SPECIFICATION
SYMBOL
11
WWW SERVER
CGI PROGRAM
EQUIPMENT DESIGN
CAD SYMBOL RETRIEVAL
DB SERVER
12
9
SYMBOL WITH OCCUPIED SPACE
OCCUPIED SPACE
SPACE REQUIRED FOR INSTALLATION OF ELEVATOR EQUIPMENT. A STRUCTURE SUCH AS A PILLAR, BEAM, OR PIPE SHOULD NOT EXIST IN THIS SPACE.
STUDY OF FITTING
a. I WANT TO KNOW A REQUIRED SIZE OF THE ELEVATOR PATH.
b. I WANT TO CONFIRM IF IT FITS INTO THE PLANNED ELEVATOR PATH.
〈BUILDING DRAWING〉

FIG.8

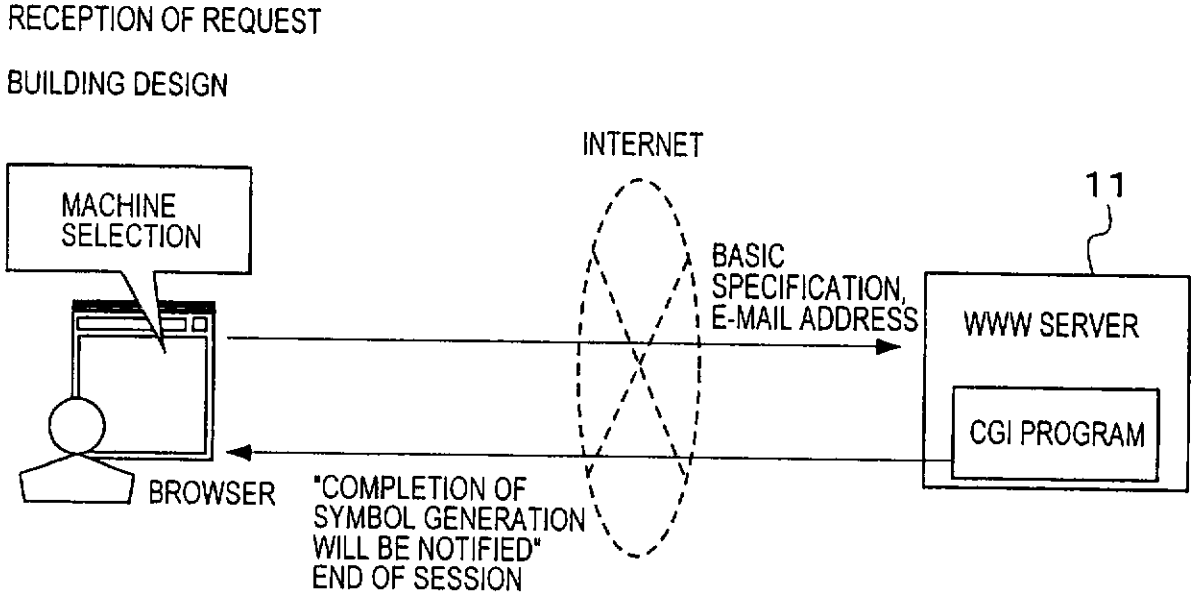

RECEPTION OF REQUEST
BUILDING DESIGN
INTERNET
MACHINE SELECTION
11
BASIC SPECIFICATION, E-MAIL ADDRESS
WWW SERVER
CGI PROGRAM
BROWSER
"COMPLETION OF SYMBOL GENERATION WILL BE NOTIFIED"
END OF SESSION

FIG.9

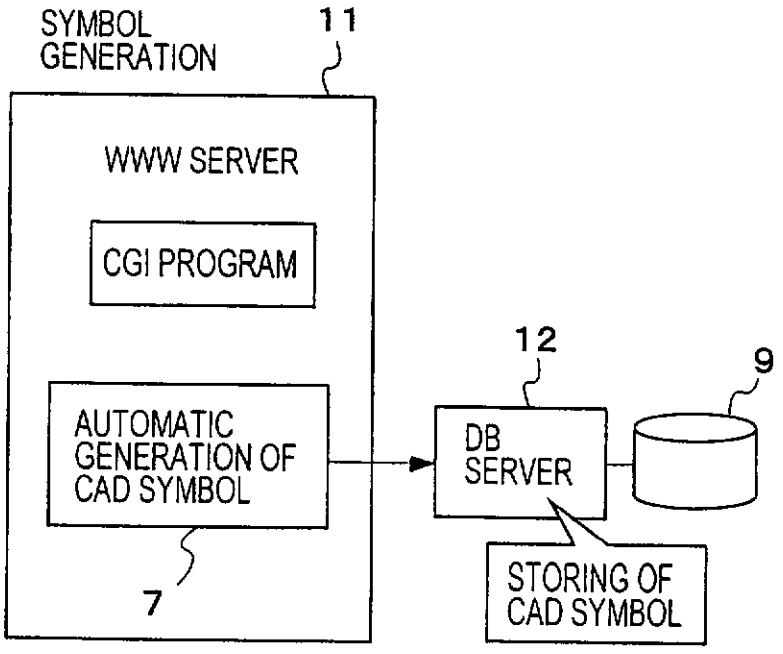

SYMBOL GENERATION
11
WWW SERVER
CGI PROGRAM
AUTOMATIC GENERATION OF CAD SYMBOL
7
12
DB SERVER
9
STORING OF CAD SYMBOL

FIG.10

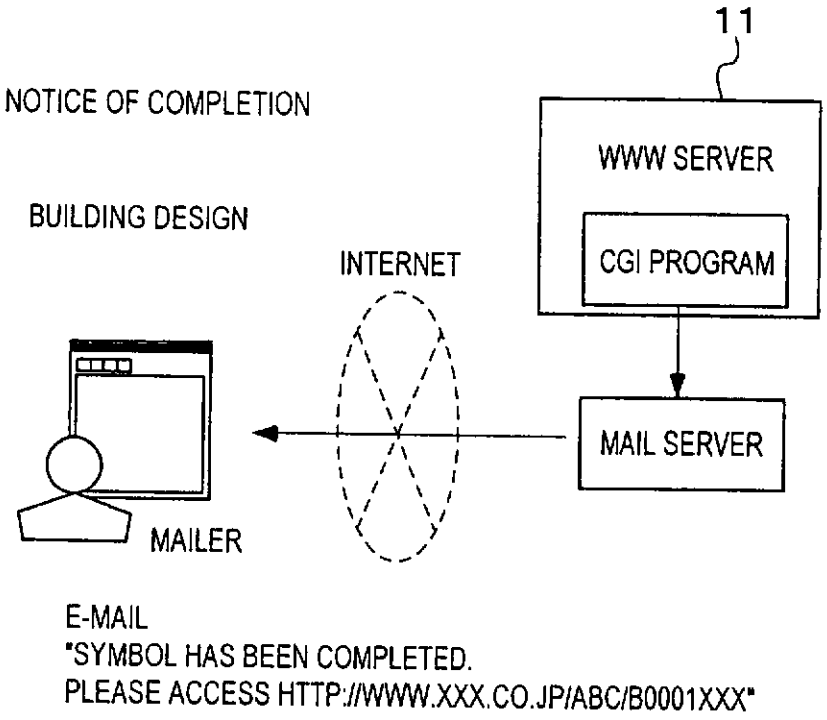

11
NOTICE OF COMPLETION
WWW SERVER
CGI PROGRAM
BUILDING DESIGN
INTERNET
MAIL SERVER
MAILER
E-MAIL
"SYMBOL HAS BEEN COMPLETED.
PLEASE ACCESS HTTP://WWW.XXX.CO.JP/ABC/B0001XXX"

FIG.11

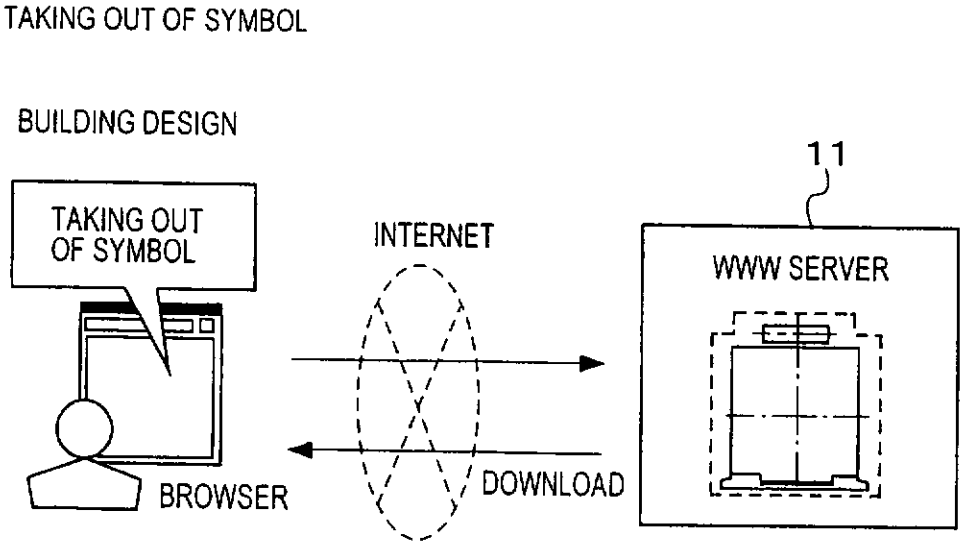

TAKING OUT OF SYMBOL
BUILDING DESIGN
11
TAKING OUT OF SYMBOL
INTERNET
WWW SERVER
BROWSER
DOWNLOAD

FIG.12

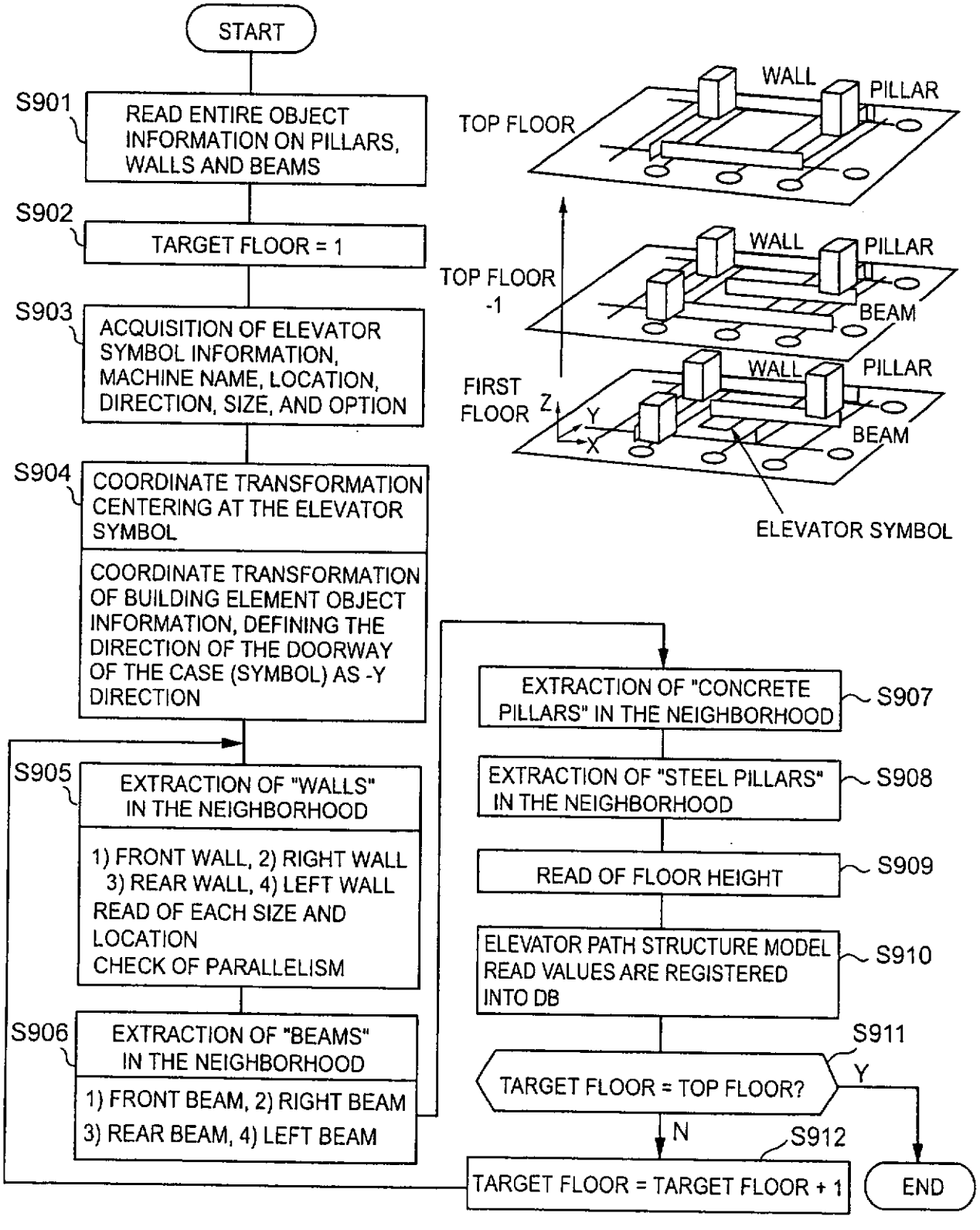

START
S901
READ ENTIRE OBJECT INFORMATION ON PILLARS, WALLS AND BEAMS
S902
TARGET FLOOR = 1
S903
ACQUISITION OF ELEVATOR SYMBOL INFORMATION, MACHINE NAME, LOCATION, DIRECTION, SIZE, AND OPTION
S904
COORDINATE TRANSFORMATION CENTERING AT THE ELEVATOR SYMBOL
COORDINATE TRANSFORMATION OF BUILDING ELEMENT OBJECT INFORMATION, DEFINING THE DIRECTION OF THE DOORWAY OF THE CASE (SYMBOL) AS -Y DIRECTION
S905
EXTRACTION OF "WALLS" IN THE NEIGHBORHOOD
1) FRONT WALL, 2) RIGHT WALL 3) REAR WALL, 4) LEFT WALL READ OF EACH SIZE AND LOCATION CHECK OF PARALLELISM
S906
EXTRACTION OF "BEAMS" IN THE NEIGHBORHOOD
1) FRONT BEAM, 2) RIGHT BEAM 3) REAR BEAM, 4) LEFT BEAM
S907
EXTRACTION OF "CONCRETE PILLARS" IN THE NEIGHBORHOOD
S908
EXTRACTION OF "STEEL PILLARS" IN THE NEIGHBORHOOD
S909
READ OF FLOOR HEIGHT
S910
ELEVATOR PATH STRUCTURE MODEL READ VALUES ARE REGISTERED INTO DB
S911
TARGET FLOOR = TOP FLOOR?
Y
N
S912
TARGET FLOOR = TARGET FLOOR + 1
END
TOP FLOOR
WALL
PILLAR
TOP FLOOR -1
BEAM
FIRST FLOOR
Z
Y
X
ELEVATOR SYMBOL

FIG.13

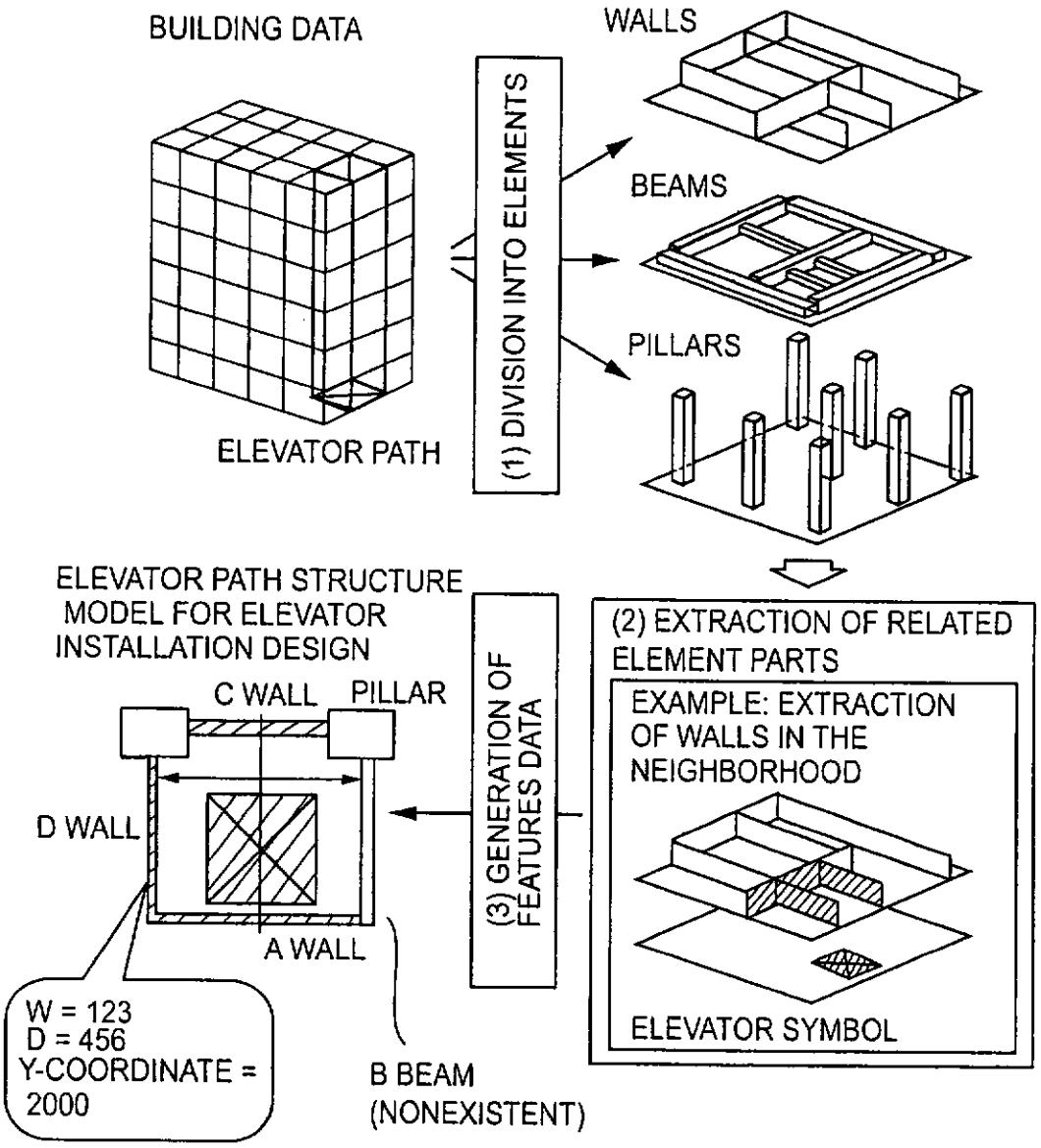
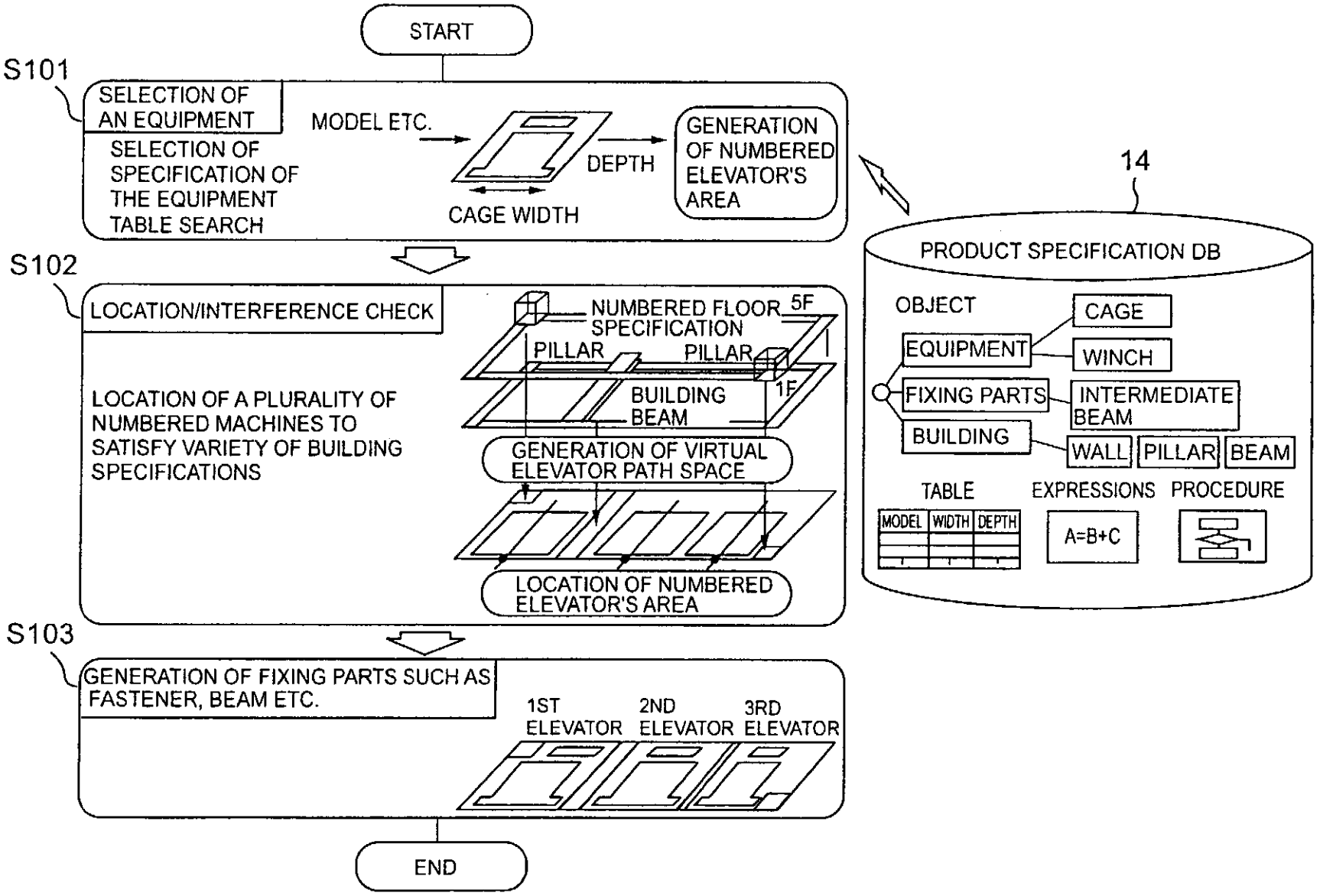

BUILDING DATA
ELEVATOR PATH
(1) DIVISION INTO ELEMENTS
WALLS
BEAMS
PILLARS
(2) EXTRACTION OF RELATED ELEMENT PARTS
EXAMPLE: EXTRACTION OF WALLS IN THE NEIGHBORHOOD
ELEVATOR SYMBOL
(3) GENERATION OF FEATURES DATA
ELEVATOR PATH STRUCTURE MODEL FOR ELEVATOR INSTALLATION DESIGN
C WALL
PILLAR
D WALL
A WALL
W = 123
D = 456
Y-COORDINATE = 2000
B BEAM
(NONEXISTENT)

FIG.14






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FIG.15

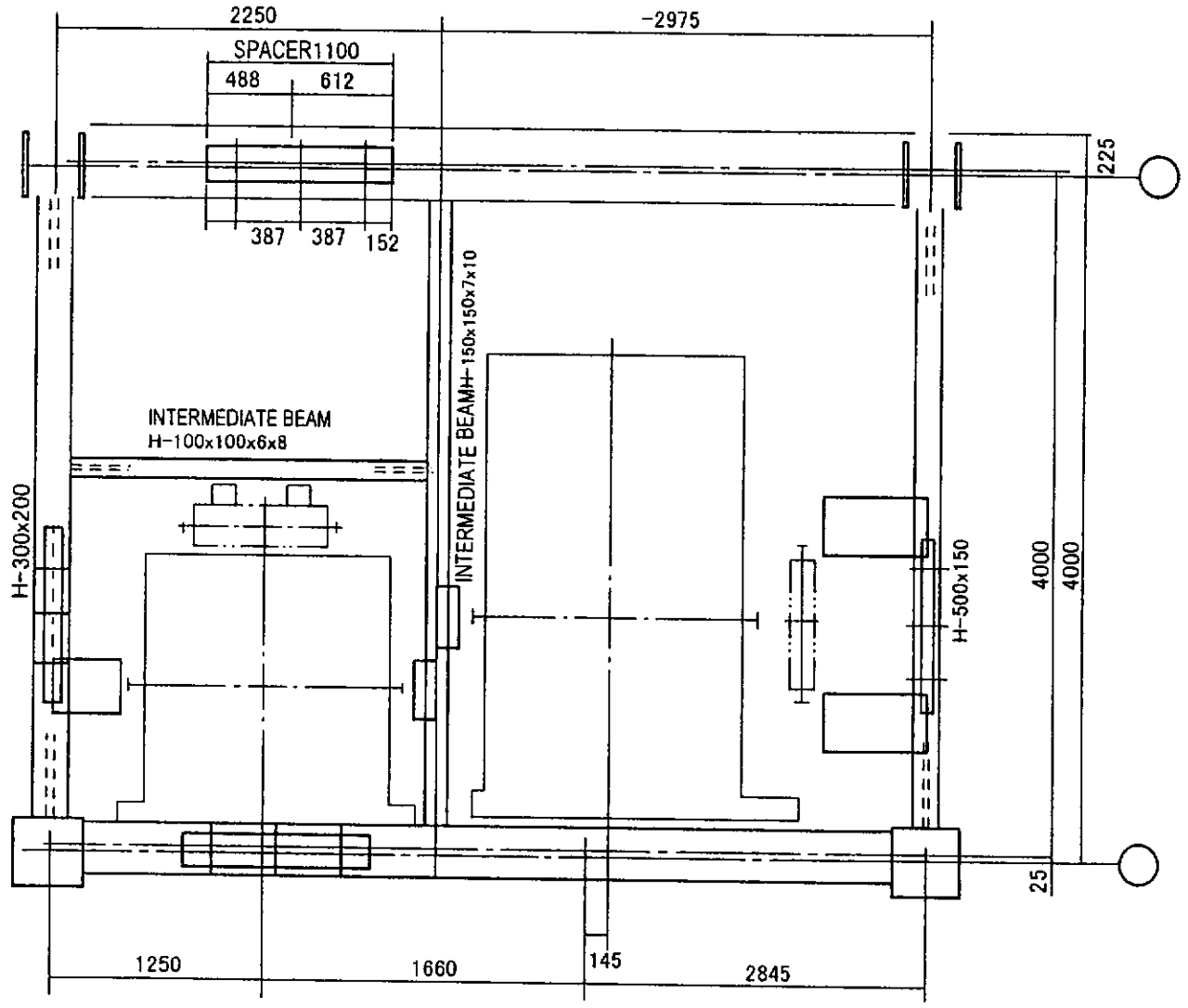

2250
2975
SPACER1100
488
612
387
387
152
225
INTERMEDIATE BEAM
H-100x100x6x8
INTERMEDIATE BEAM H-150x150x7x10
H-300x200
H-500x150
4000
4000
25
1250
1660
145
2845

FIG.16

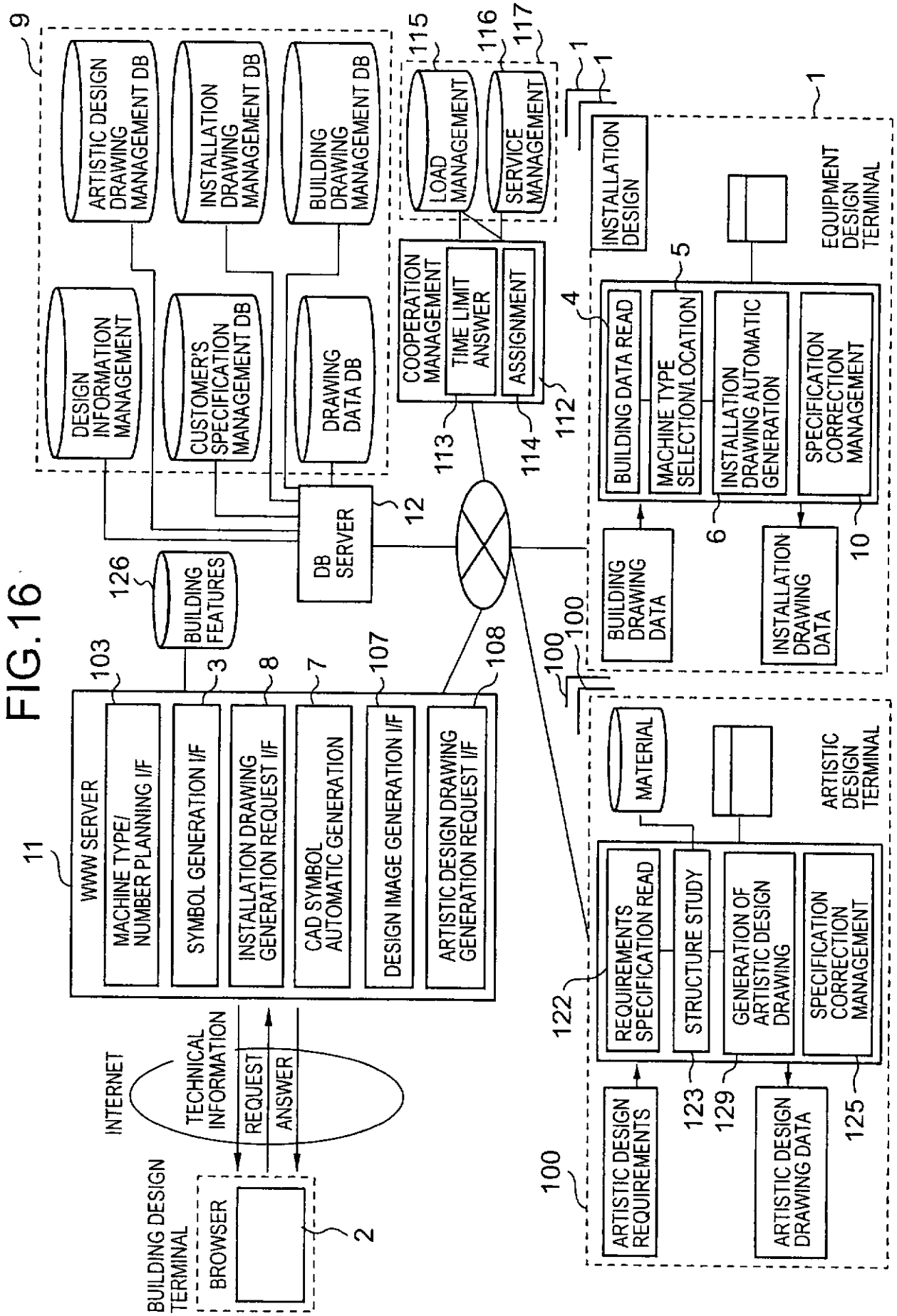

9
ARTISTIC DESIGN DRAWING MANAGEMENT DB
INSTALLATION DRAWING MANAGEMENT DB
BUILDING DRAWING MANAGEMENT DB
DESIGN INFORMATION MANAGEMENT
CUSTOMER'S SPECIFICATION MANAGEMENT DB
DRAWING DATA DB
115
116
117
LOAD MANAGEMENT
SERVICE MANAGEMENT
COOPERATION MANAGEMENT
TIME LIMIT ANSWER
ASSIGNMENT
112
113
114
DB SERVER
12
126
BUILDING FEATURES
11
WWW SERVER
103
MACHINE TYPE/ NUMBER PLANNING I/F
3
SYMBOL GENERATION I/F
8
INSTALLATION DRAWING GENERATION REQUEST I/F
7
CAD SYMBOL AUTOMATIC GENERATION
107
DESIGN IMAGE GENERATION I/F
108
ARTISTIC DESIGN DRAWING GENERATION REQUEST I/F
INTERNET
TECHNICAL INFORMATION
REQUEST
ANSWER
BUILDING DESIGN TERMINAL
BROWSER
2
1
INSTALLATION DESIGN
4
BUILDING DATA READ
5
MACHINE TYPE SELECTION/LOCATION
INSTALLATION DRAWING AUTOMATIC GENERATION
SPECIFICATION CORRECTION MANAGEMENT
6
10
EQUIPMENT DESIGN TERMINAL
BUILDING DRAWING DATA
INSTALLATION DRAWING DATA
100
MATERIAL
122
REQUIREMENTS SPECIFICATION READ
STRUCTURE STUDY
GENERATION OF ARTISTIC DESIGN DRAWING
SPECIFICATION CORRECTION MANAGEMENT
123
129
125
ARTISTIC DESIGN TERMINAL
ARTISTIC DESIGN REQUIREMENTS
ARTISTIC DESIGN DRAWING DATA

FIG.17

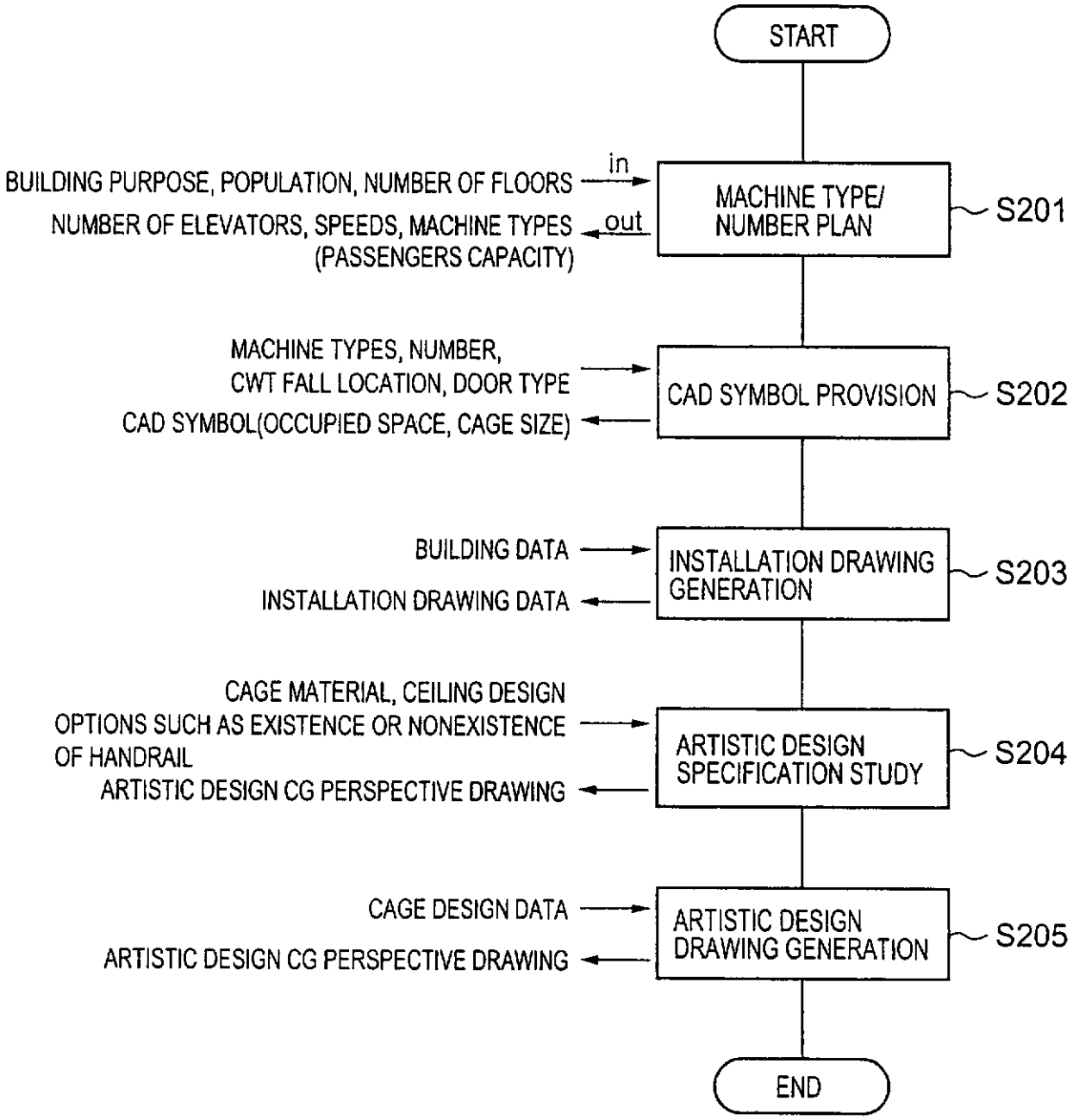
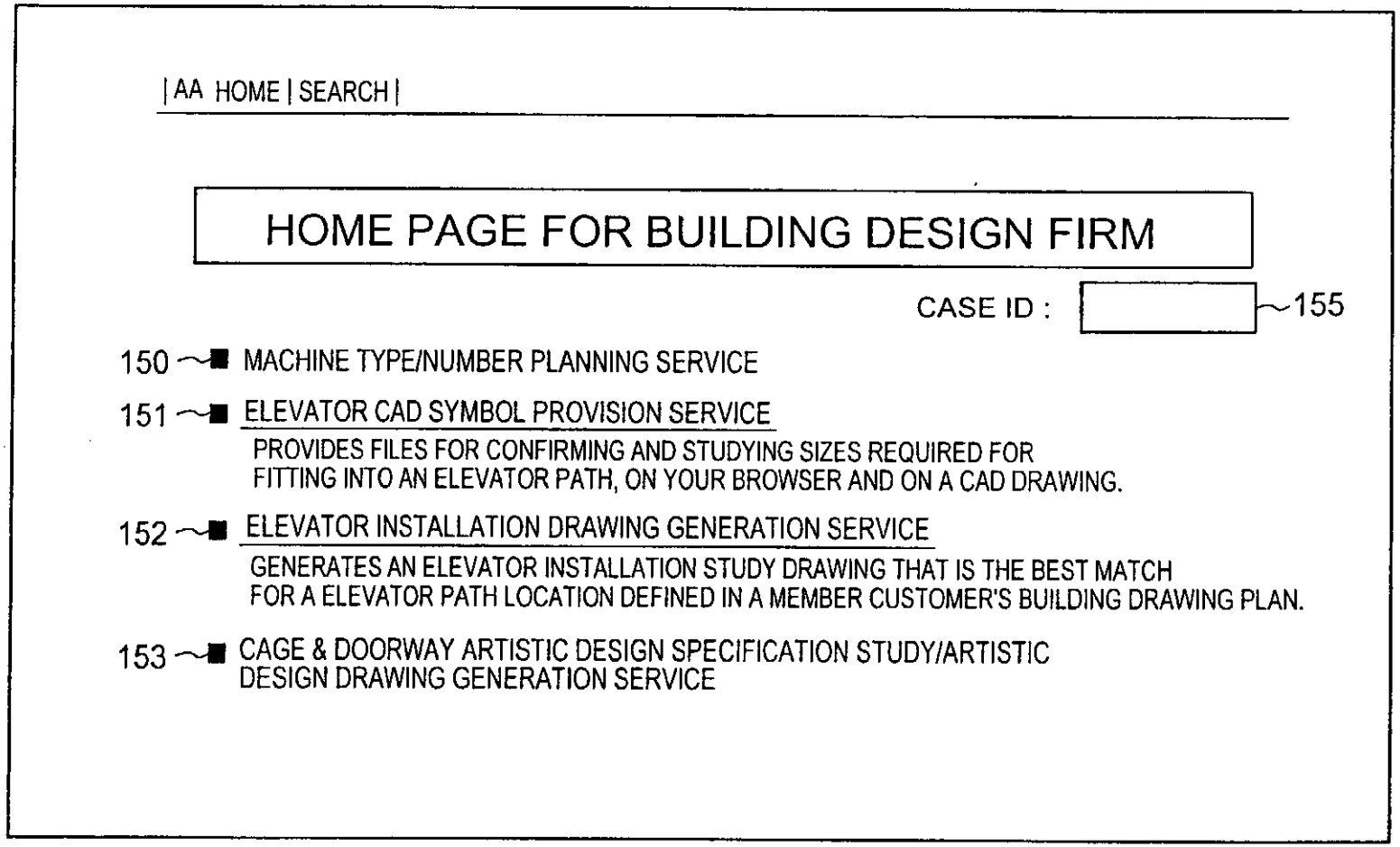

START
BUILDING PURPOSE, POPULATION, NUMBER OF FLOORS
in
NUMBER OF ELEVATORS, SPEEDS, MACHINE TYPES (PASSENGERS CAPACITY)
out
MACHINE TYPE/ NUMBER PLAN
S201
MACHINE TYPES, NUMBER, CWT FALL LOCATION, DOOR TYPE
CAD SYMBOL(OCCUPIED SPACE, CAGE SIZE)
CAD SYMBOL PROVISION
S202
BUILDING DATA
INSTALLATION DRAWING DATA
INSTALLATION DRAWING GENERATION
S203
CAGE MATERIAL, CEILING DESIGN OPTIONS SUCH AS EXISTENCE OR NONEXISTENCE OF HANDRAIL
ARTISTIC DESIGN CG PERSPECTIVE DRAWING
ARTISTIC DESIGN SPECIFICATION STUDY
S204
CAGE DESIGN DATA
ARTISTIC DESIGN CG PERSPECTIVE DRAWING
ARTISTIC DESIGN DRAWING GENERATION
S205
END

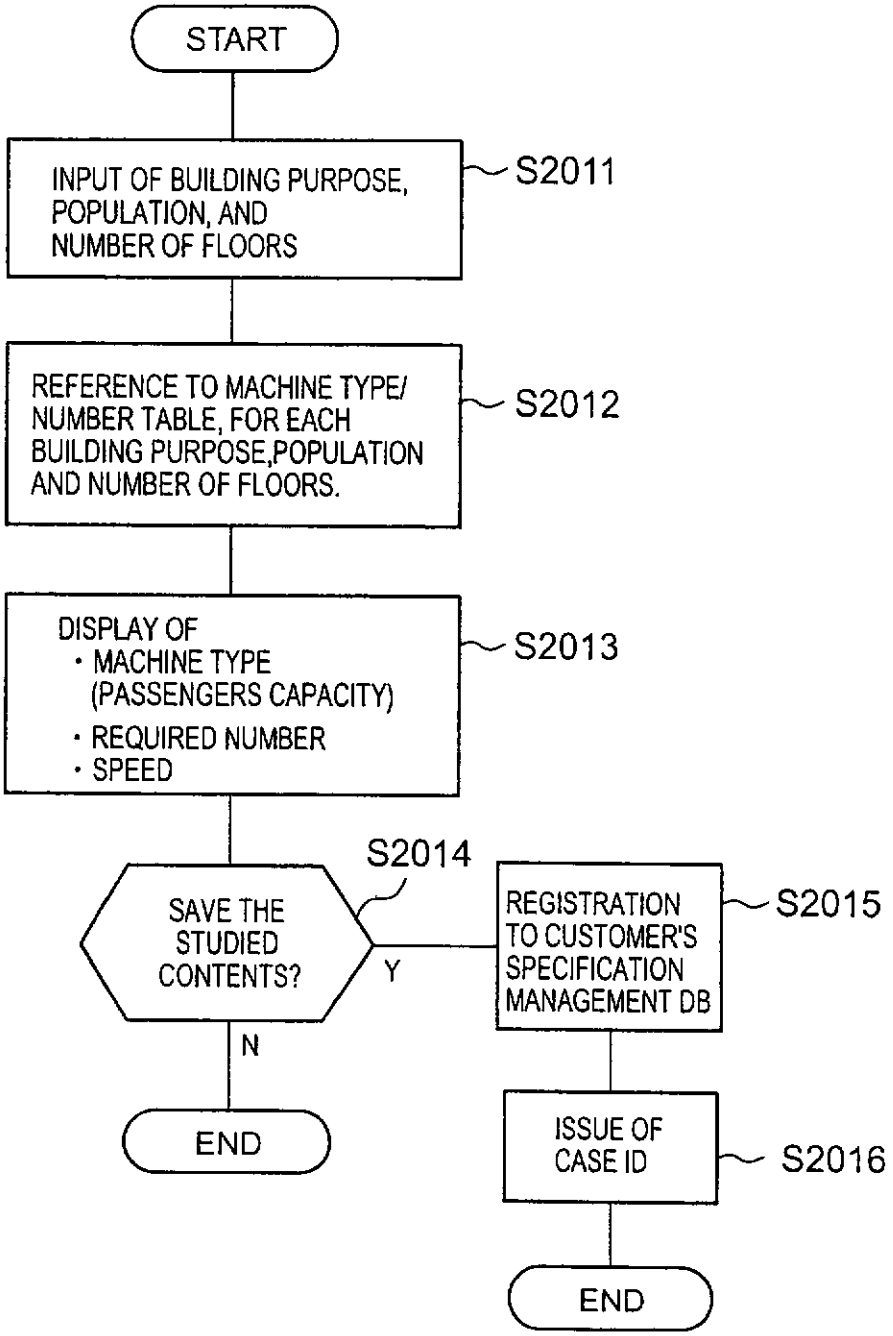
FIG.18






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FIG.19


START
INPUT OF BUILDING PURPOSE, POPULATION, AND NUMBER OF FLOORS
S2011
REFERENCE TO MACHINE TYPE/ NUMBER TABLE, FOR EACH BUILDING PURPOSE,POPULATION AND NUMBER OF FLOORS.
S2012
DISPLAY OF
• MACHINE TYPE (PASSENGERS CAPACITY)
• REQUIRED NUMBER
• SPEED
S2013
S2014
SAVE THE STUDIED CONTENTS?
Y
N
REGISTRATION TO CUSTOMER'S SPECIFICATION MANAGEMENT DB
S2015
ISSUE OF CASE ID
S2016
END
END

# FIG.20

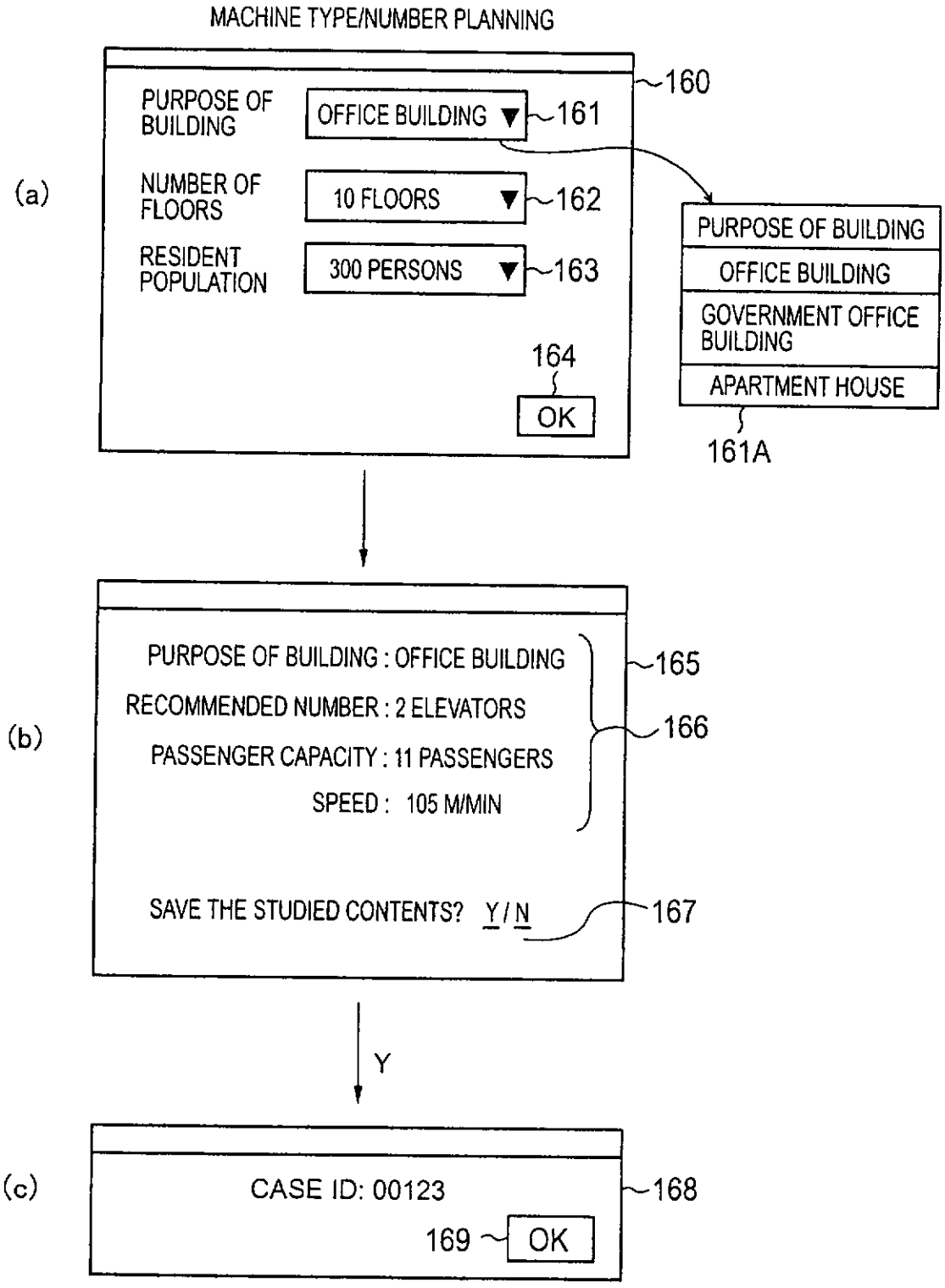

MACHINE TYPE/NUMBER PLANNING
(a)
PURPOSE OF BUILDING
OFFICE BUILDING
161
160
NUMBER OF FLOORS
10 FLOORS
162
RESIDENT POPULATION
300 PERSONS
163
164
OK
PURPOSE OF BUILDING
OFFICE BUILDING
GOVERNMENT OFFICE BUILDING
APARTMENT HOUSE
161A
(b)
PURPOSE OF BUILDING : OFFICE BUILDING
RECOMMENDED NUMBER : 2 ELEVATORS
PASSENGER CAPACITY : 11 PASSENGERS
SPEED : 105 M/MIN
165
166
SAVE THE STUDIED CONTENTS? Y / N
167
Y
(c)
CASE ID: 00123
168
169
OK

FIG.21

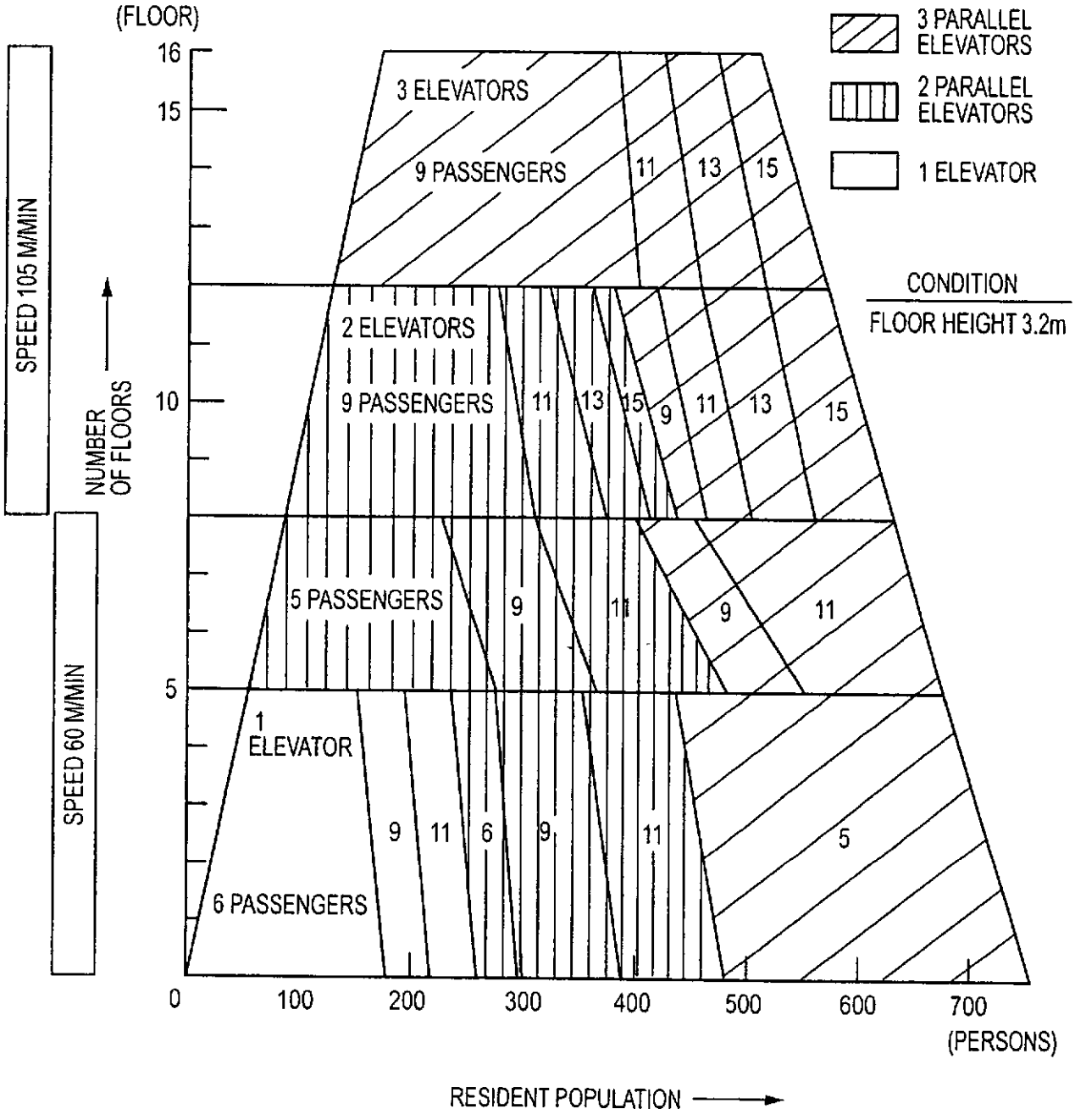
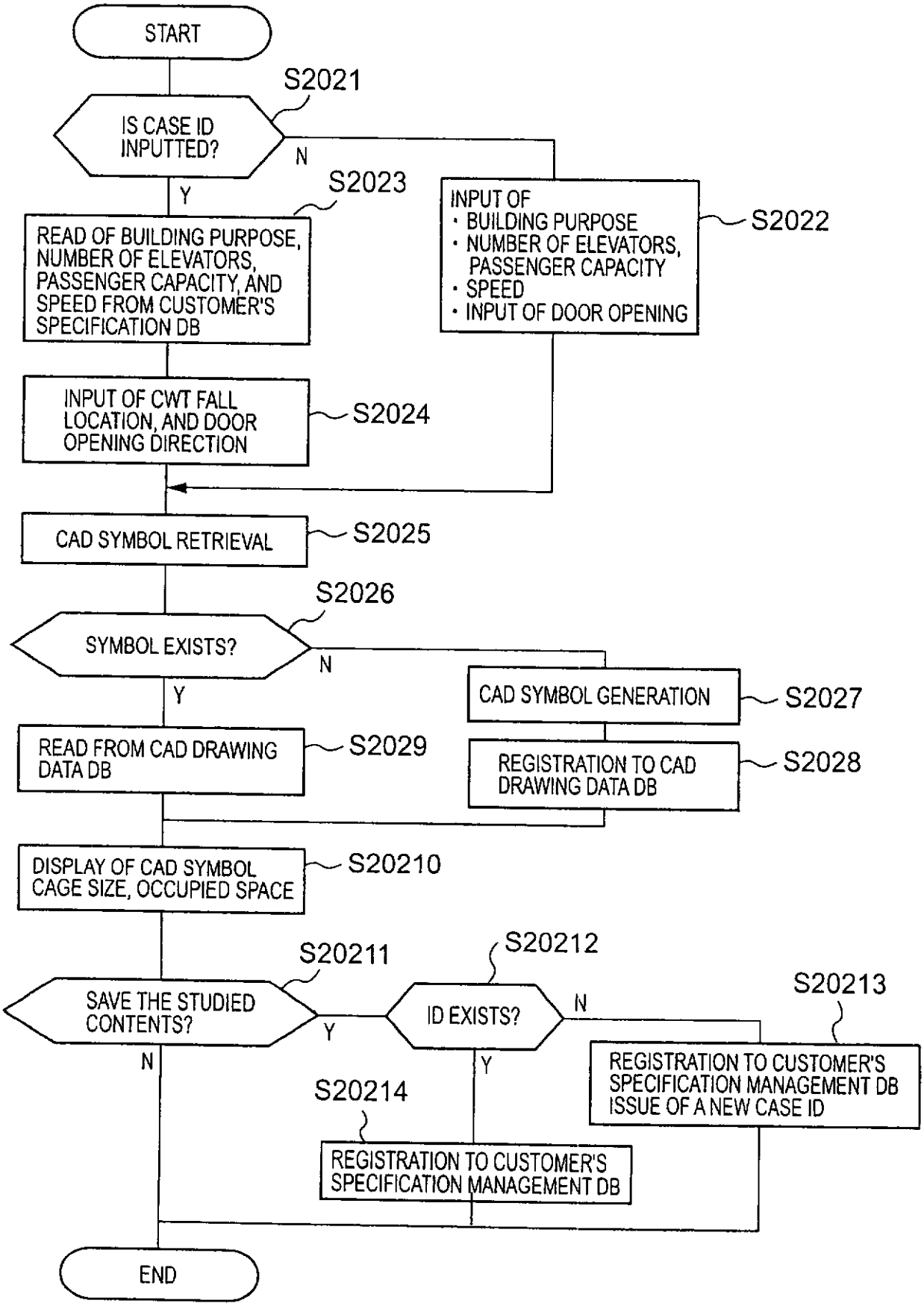
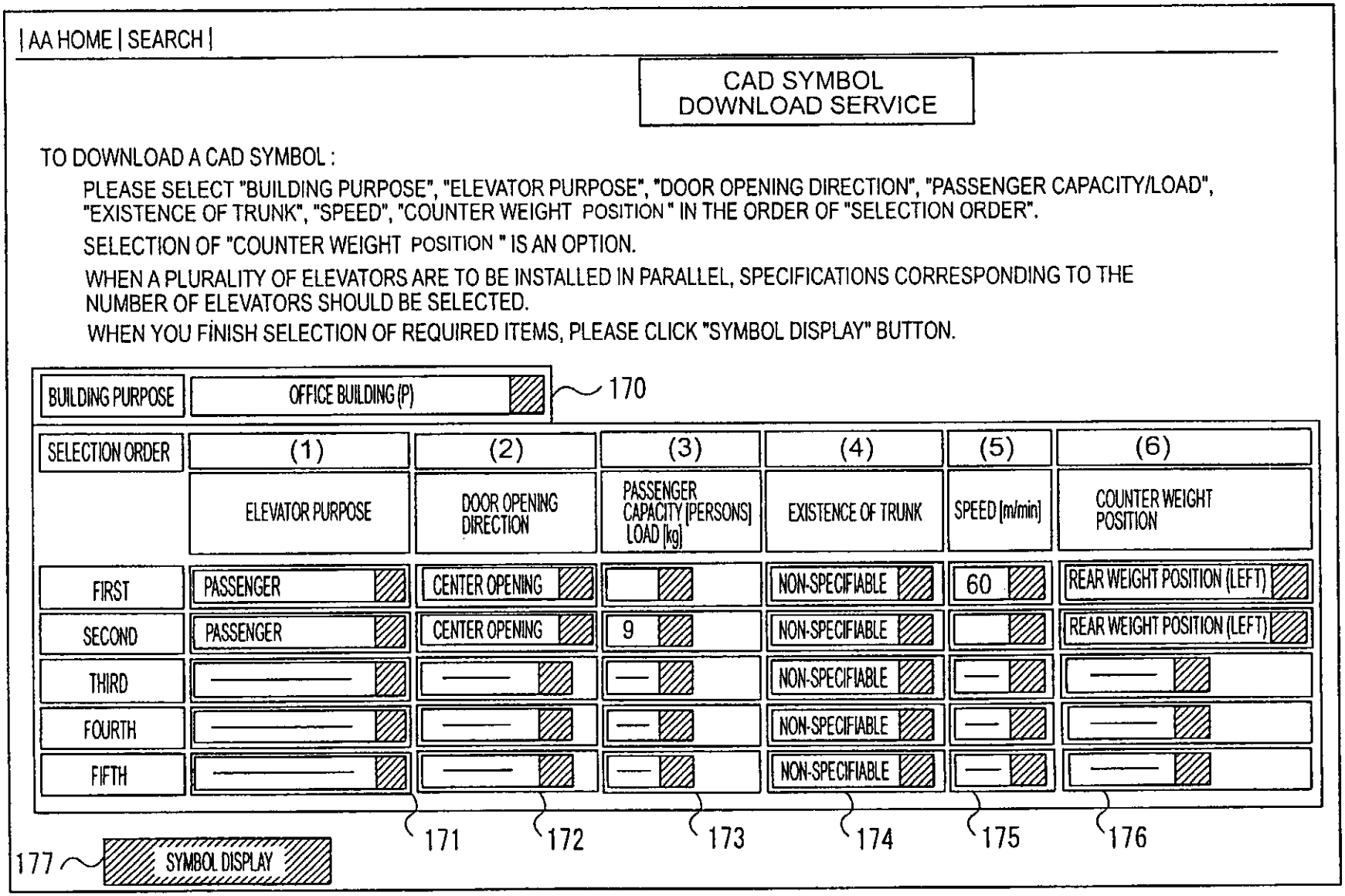

(FLOOR)
16
15
10
5
0
100
200
300
400
500
600
700
(PERSONS)
RESIDENT POPULATION
NUMBER OF FLOORS
SPEED 105 M/MIN
SPEED 60 M/MIN
3 ELEVATORS
9 PASSENGERS
2 ELEVATORS
9 PASSENGERS
5 PASSENGERS
1 ELEVATOR
6 PASSENGERS
3 PARALLEL ELEVATORS
2 PARALLEL ELEVATORS
1 ELEVATOR
CONDITION
FLOOR HEIGHT 3.2m

FIG.22


START
S2021
IS CASE ID INPUTTED?
N
Y
S2023
READ OF BUILDING PURPOSE, NUMBER OF ELEVATORS, PASSENGER CAPACITY, AND SPEED FROM CUSTOMER'S SPECIFICATION DB
INPUT OF
· BUILDING PURPOSE
· NUMBER OF ELEVATORS, PASSENGER CAPACITY
· SPEED
· INPUT OF DOOR OPENING
S2022
INPUT OF CWT FALL LOCATION, AND DOOR OPENING DIRECTION
S2024
CAD SYMBOL RETRIEVAL
S2025
S2026
SYMBOL EXISTS?
N
Y
CAD SYMBOL GENERATION
S2027
READ FROM CAD DRAWING DATA DB
S2029
REGISTRATION TO CAD DRAWING DATA DB
S2028
DISPLAY OF CAD SYMBOL CAGE SIZE, OCCUPIED SPACE
S20210
S20211
S20212
S20213
SAVE THE STUDIED CONTENTS?
Y
N
ID EXISTS?
N
Y
REGISTRATION TO CUSTOMER'S SPECIFICATION MANAGEMENT DB ISSUE OF A NEW CASE ID
S20214
REGISTRATION TO CUSTOMER'S SPECIFICATION MANAGEMENT DB
END

# FIG.23





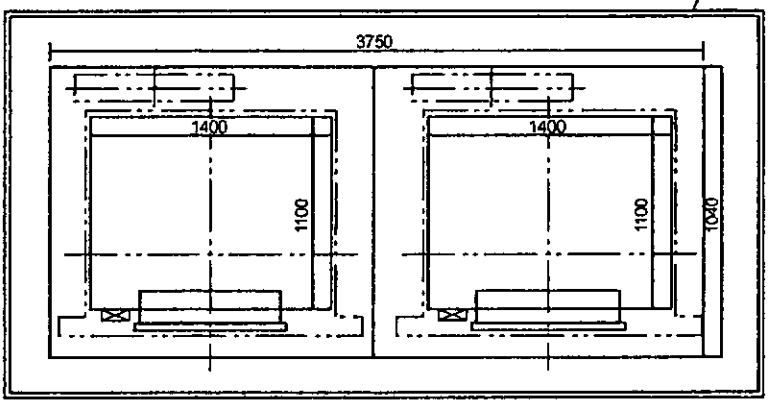

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FIG.24

| AA HOME | SEARCH |

ELEVATOR SYMBOL DISPLAY

180




| BUILDING PURPOSE | OFFICE BUILDING (P) | | | | | |
|---|---|---|---|---|---|---|
| | ELEVATOR PURPOSE | DOOR OPENING DIRECTION | PASSENGER CAPACITY [PERSONS] LOAD [kg] | EXISTENCE OF TRUNK | SPEED [m/min] | COUNTER WEIGHT POSITION |
| FIRST | PASSENGER | CENTER OPENING | 9 | —— | 60 | REAR WEIGHT POSITION (LEFT) |
| SECOND | PASSENGER | CENTER OPENING | 9 | —— | 60 | REAR WEIGHT POSITION (LEFT) |

SAVE THE STUDIED CONTENTS? Y / N

181

FIG.25

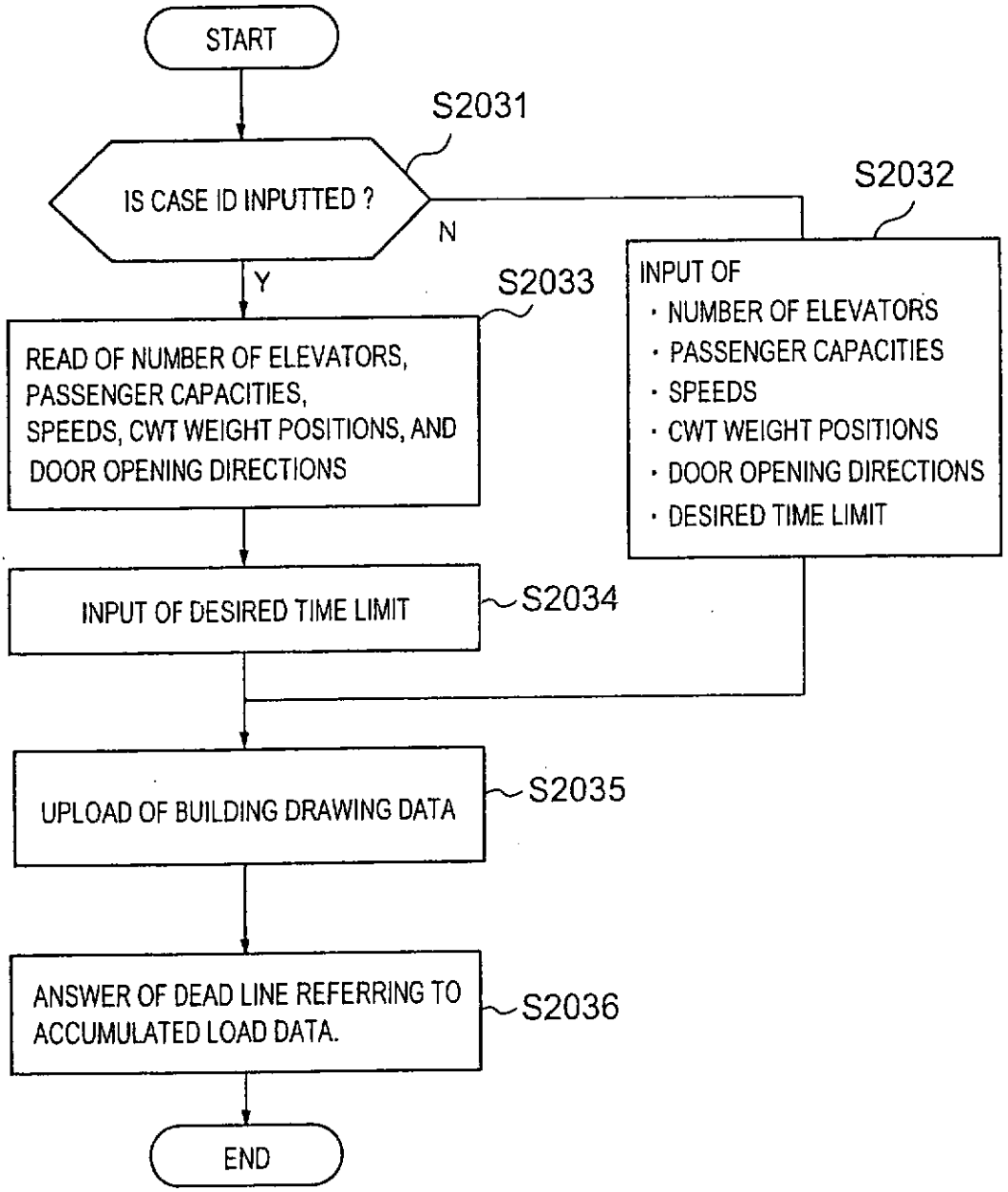

START
S2031
IS CASE ID INPUTTED ?
N
Y
S2032
INPUT OF
· NUMBER OF ELEVATORS
· PASSENGER CAPACITIES
· SPEEDS
· CWT WEIGHT POSITIONS
· DOOR OPENING DIRECTIONS
· DESIRED TIME LIMIT
S2033
READ OF NUMBER OF ELEVATORS, PASSENGER CAPACITIES, SPEEDS, CWT WEIGHT POSITIONS, AND DOOR OPENING DIRECTIONS
INPUT OF DESIRED TIME LIMIT
S2034
UPLOAD OF BUILDING DRAWING DATA
S2035
ANSWER OF DEAD LINE REFERRING TO ACCUMULATED LOAD DATA.
S2036
END

FIG.26

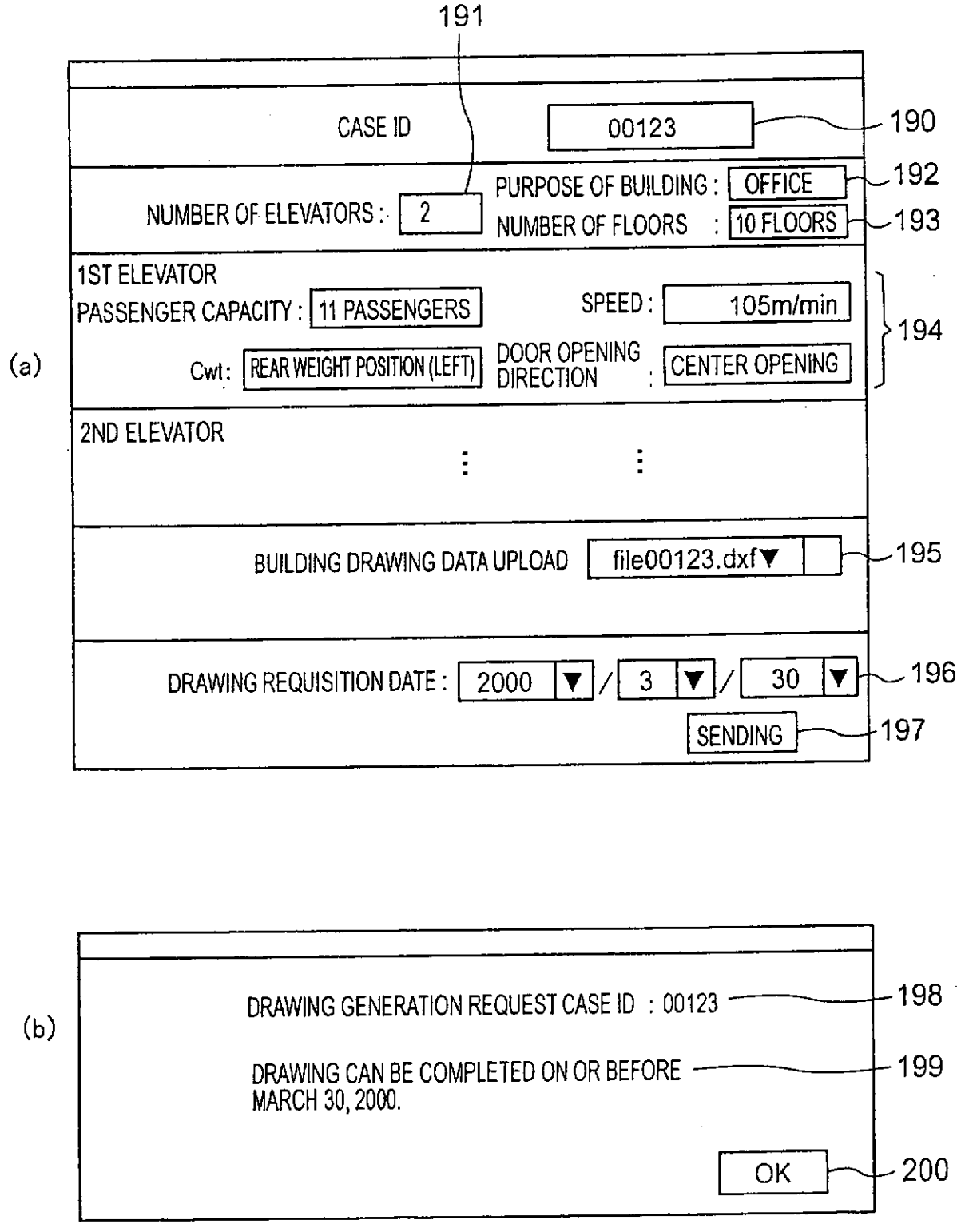

191
CASE ID
00123
190
NUMBER OF ELEVATORS : 2
PURPOSE OF BUILDING : OFFICE
192
NUMBER OF FLOORS : 10 FLOORS
193
1ST ELEVATOR
PASSENGER CAPACITY : 11 PASSENGERS
SPEED : 105m/min
Cwt : REAR WEIGHT POSITION (LEFT)
DOOR OPENING DIRECTION : CENTER OPENING
194
(a)
2ND ELEVATOR
BUILDING DRAWING DATA UPLOAD
file00123.dxf
195
DRAWING REQUISITION DATE : 2000 / 3 / 30
196
SENDING
197
(b)
DRAWING GENERATION REQUEST CASE ID : 00123
198
DRAWING CAN BE COMPLETED ON OR BEFORE MARCH 30, 2000.
199
OK
200

FIG.27

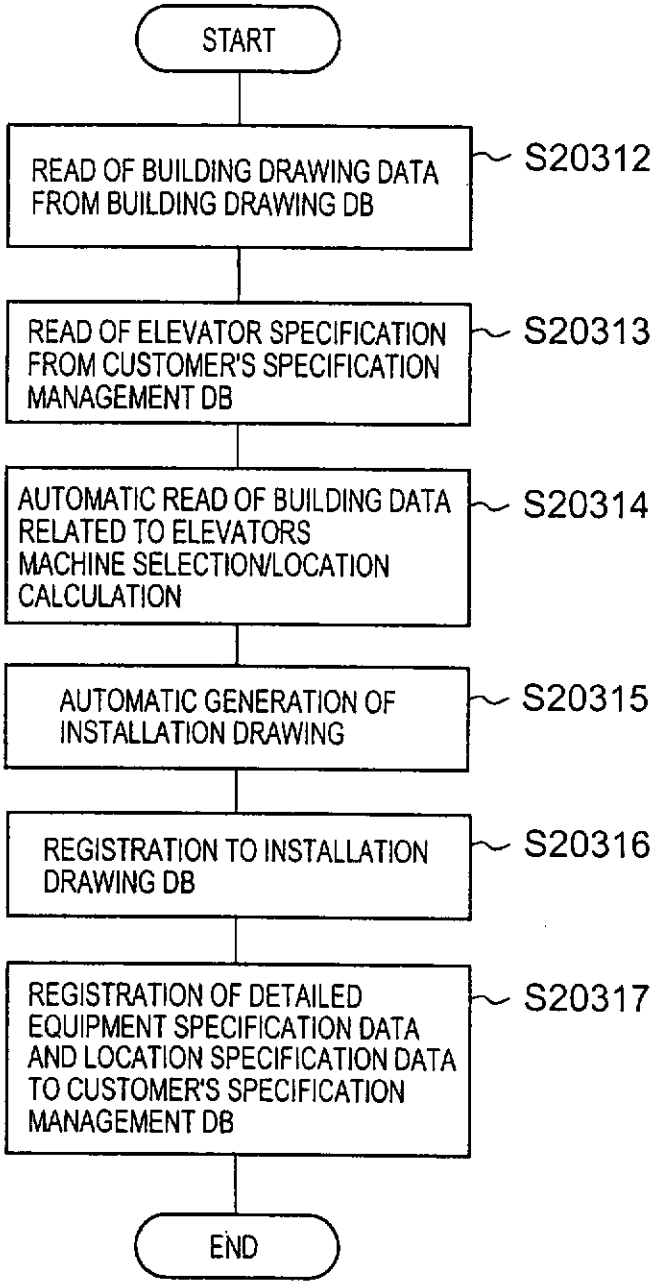

START
READ OF BUILDING DRAWING DATA FROM BUILDING DRAWING DB
S20312
READ OF ELEVATOR SPECIFICATION FROM CUSTOMER'S SPECIFICATION MANAGEMENT DB
S20313
AUTOMATIC READ OF BUILDING DATA RELATED TO ELEVATORS MACHINE SELECTION/LOCATION CALCULATION
S20314
AUTOMATIC GENERATION OF INSTALLATION DRAWING
S20315
REGISTRATION TO INSTALLATION DRAWING DB
S20316
REGISTRATION OF DETAILED EQUIPMENT SPECIFICATION DATA AND LOCATION SPECIFICATION DATA TO CUSTOMER'S SPECIFICATION MANAGEMENT DB
S20317
END

FIG.28

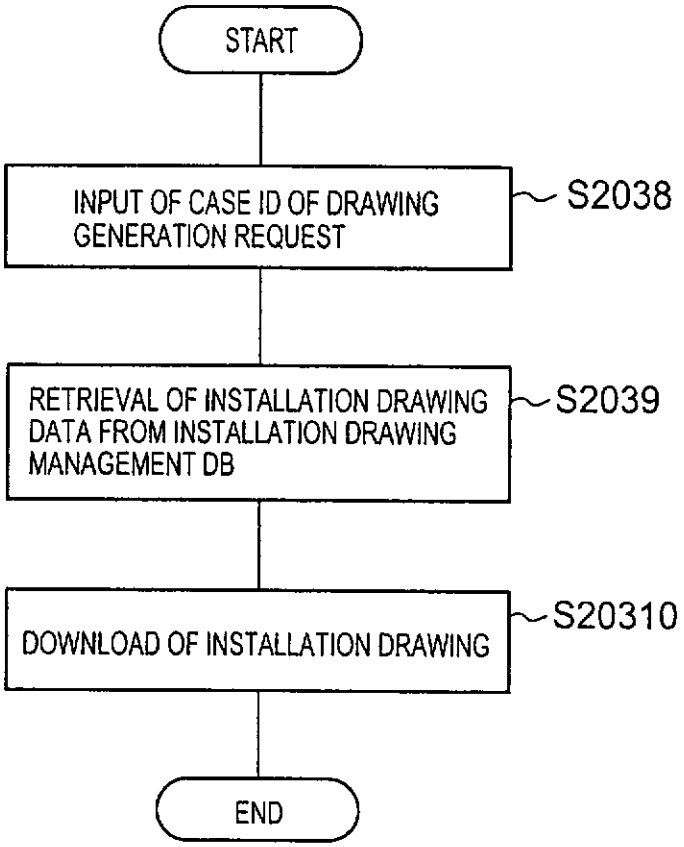

START
INPUT OF CASE ID OF DRAWING GENERATION REQUEST
S2038
RETRIEVAL OF INSTALLATION DRAWING DATA FROM INSTALLATION DRAWING MANAGEMENT DB
S2039
DOWNLOAD OF INSTALLATION DRAWING
S20310
END

FIG.29

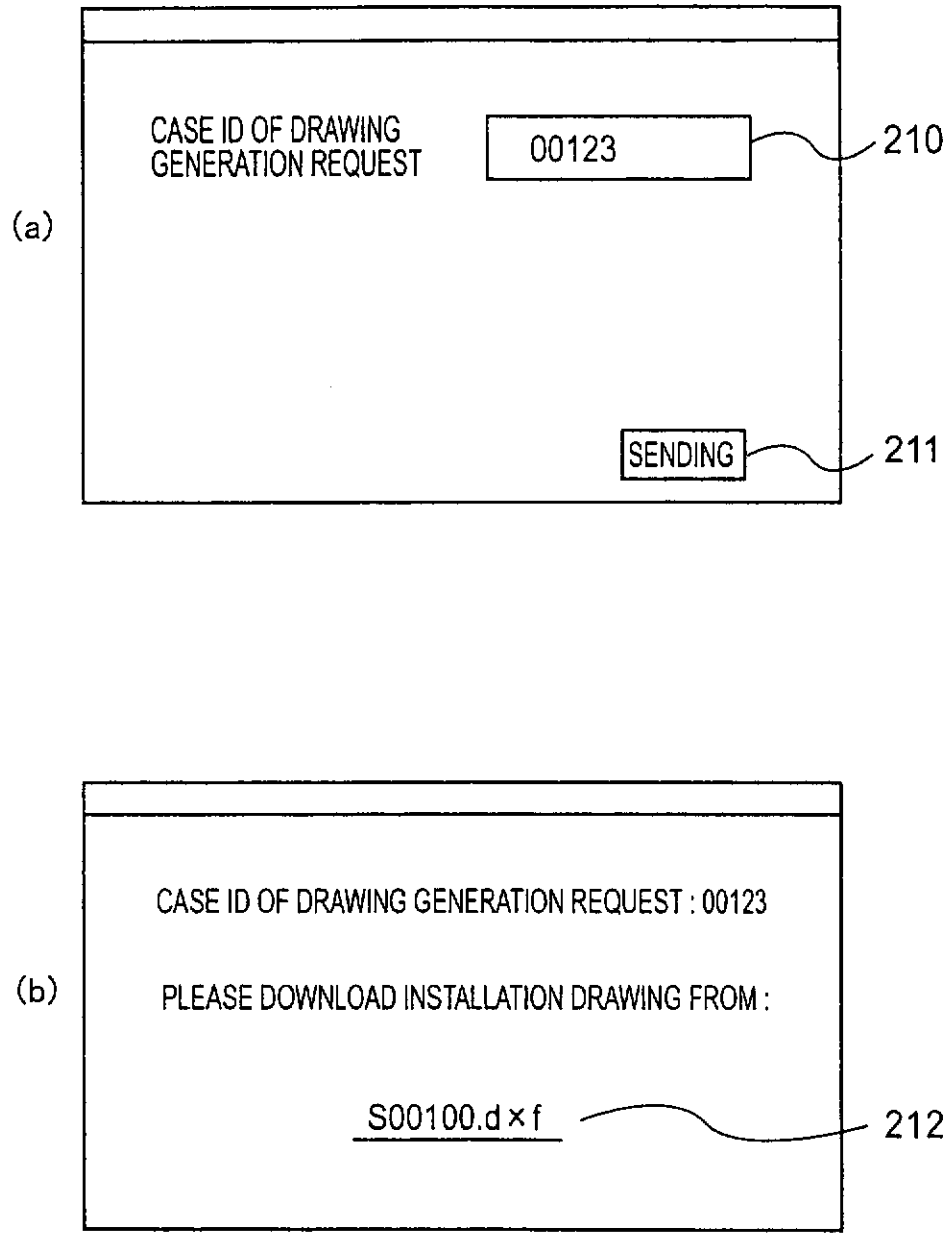

(a)
CASE ID OF DRAWING GENERATION REQUEST
00123
210
SENDING
211
(b)
CASE ID OF DRAWING GENERATION REQUEST : 00123
PLEASE DOWNLOAD INSTALLATION DRAWING FROM :
S00100.dxf
212

FIG.30

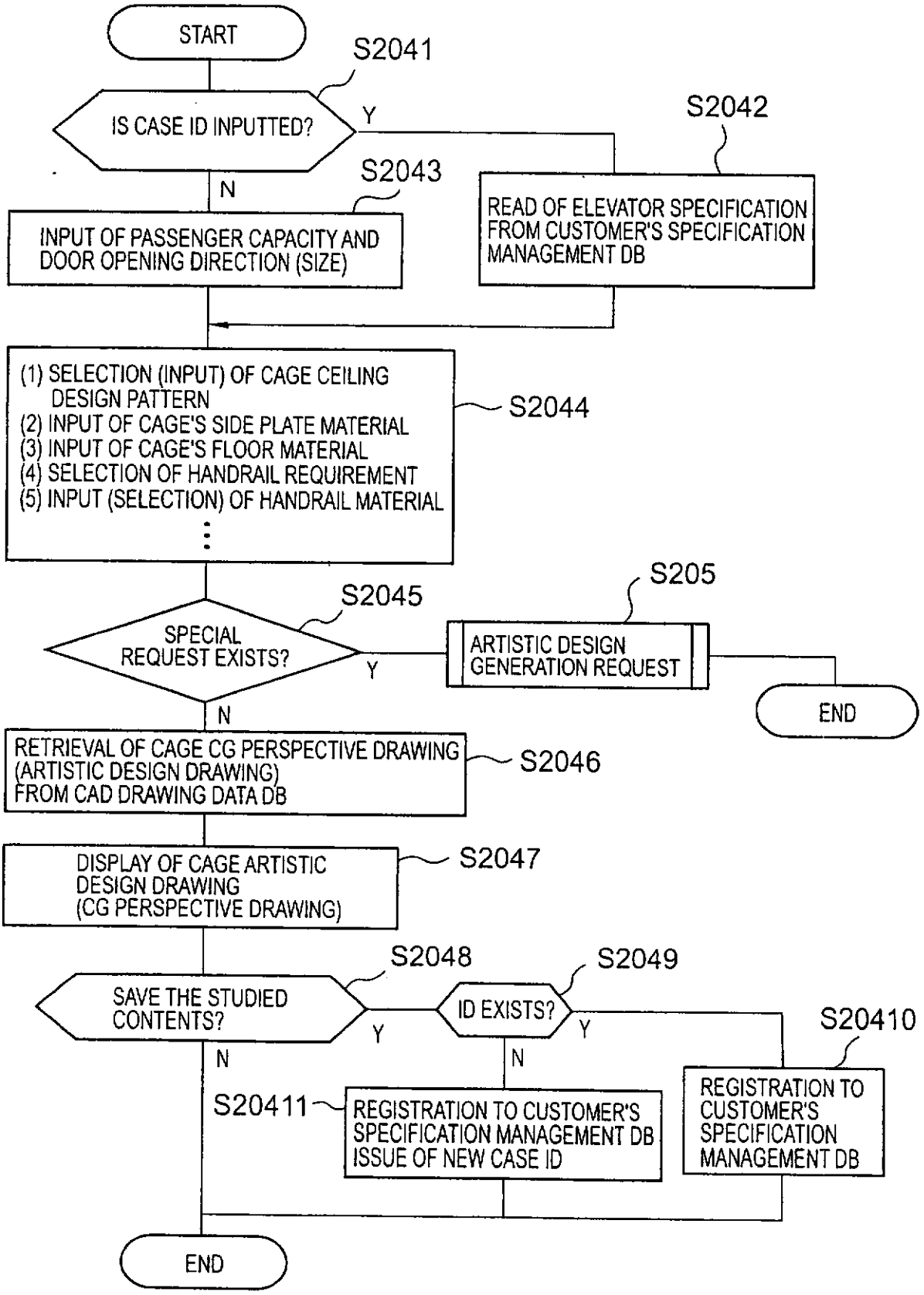

START
S2041
IS CASE ID INPUTTED?
Y
N
S2042
READ OF ELEVATOR SPECIFICATION FROM CUSTOMER'S SPECIFICATION MANAGEMENT DB
S2043
INPUT OF PASSENGER CAPACITY AND DOOR OPENING DIRECTION (SIZE)
(1) SELECTION (INPUT) OF CAGE CEILING DESIGN PATTERN
(2) INPUT OF CAGE'S SIDE PLATE MATERIAL
(3) INPUT OF CAGE'S FLOOR MATERIAL
(4) SELECTION OF HANDRAIL REQUIREMENT
(5) INPUT (SELECTION) OF HANDRAIL MATERIAL
S2044
S2045
SPECIAL REQUEST EXISTS?
Y
N
S205
ARTISTIC DESIGN GENERATION REQUEST
END
RETRIEVAL OF CAGE CG PERSPECTIVE DRAWING (ARTISTIC DESIGN DRAWING) FROM CAD DRAWING DATA DB
S2046
DISPLAY OF CAGE ARTISTIC DESIGN DRAWING (CG PERSPECTIVE DRAWING)
S2047
S2048
SAVE THE STUDIED CONTENTS?
Y
N
S2049
ID EXISTS?
Y
N
S20410
REGISTRATION TO CUSTOMER'S SPECIFICATION MANAGEMENT DB
S20411
REGISTRATION TO CUSTOMER'S SPECIFICATION MANAGEMENT DB ISSUE OF NEW CASE ID
END

FIG.31

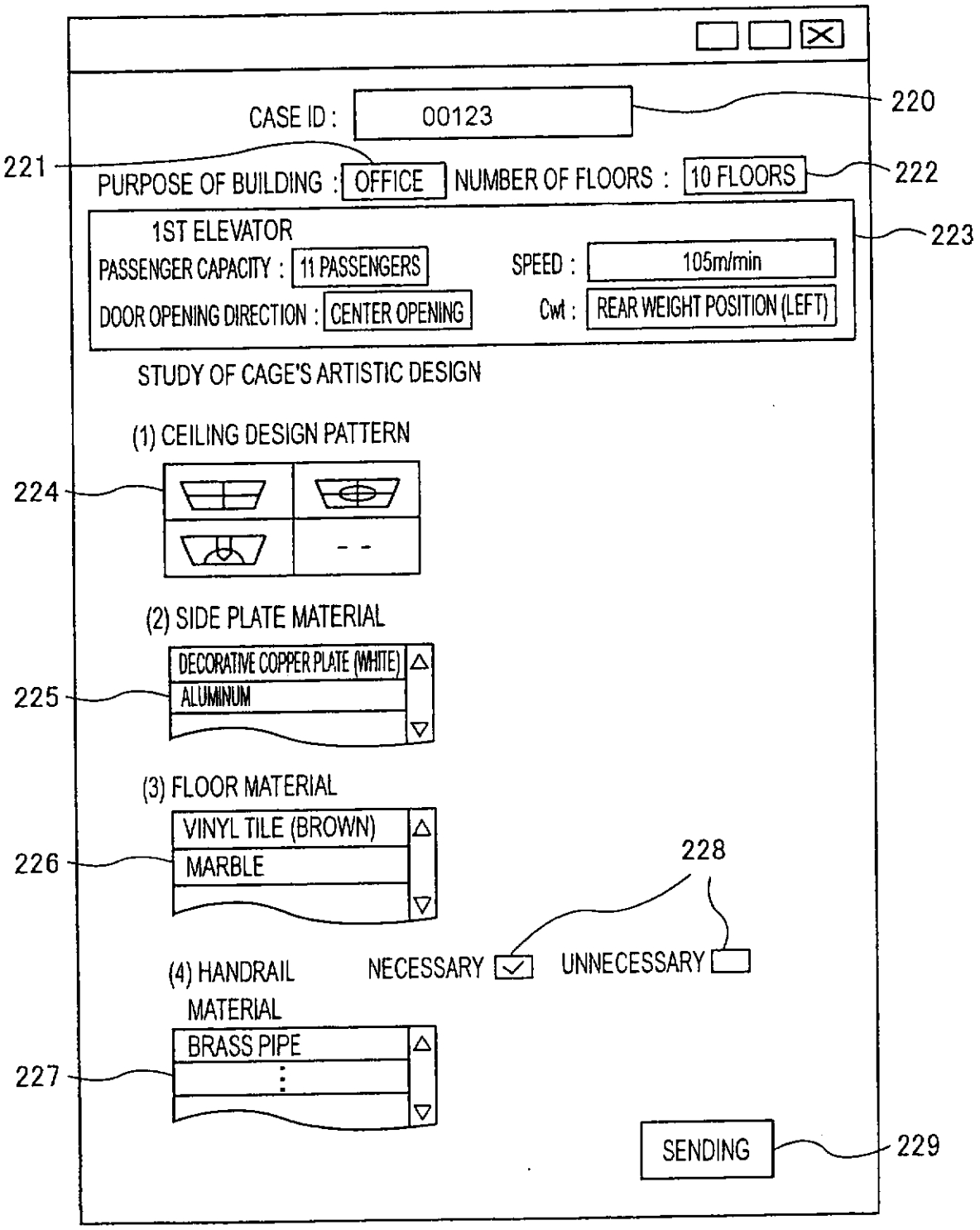
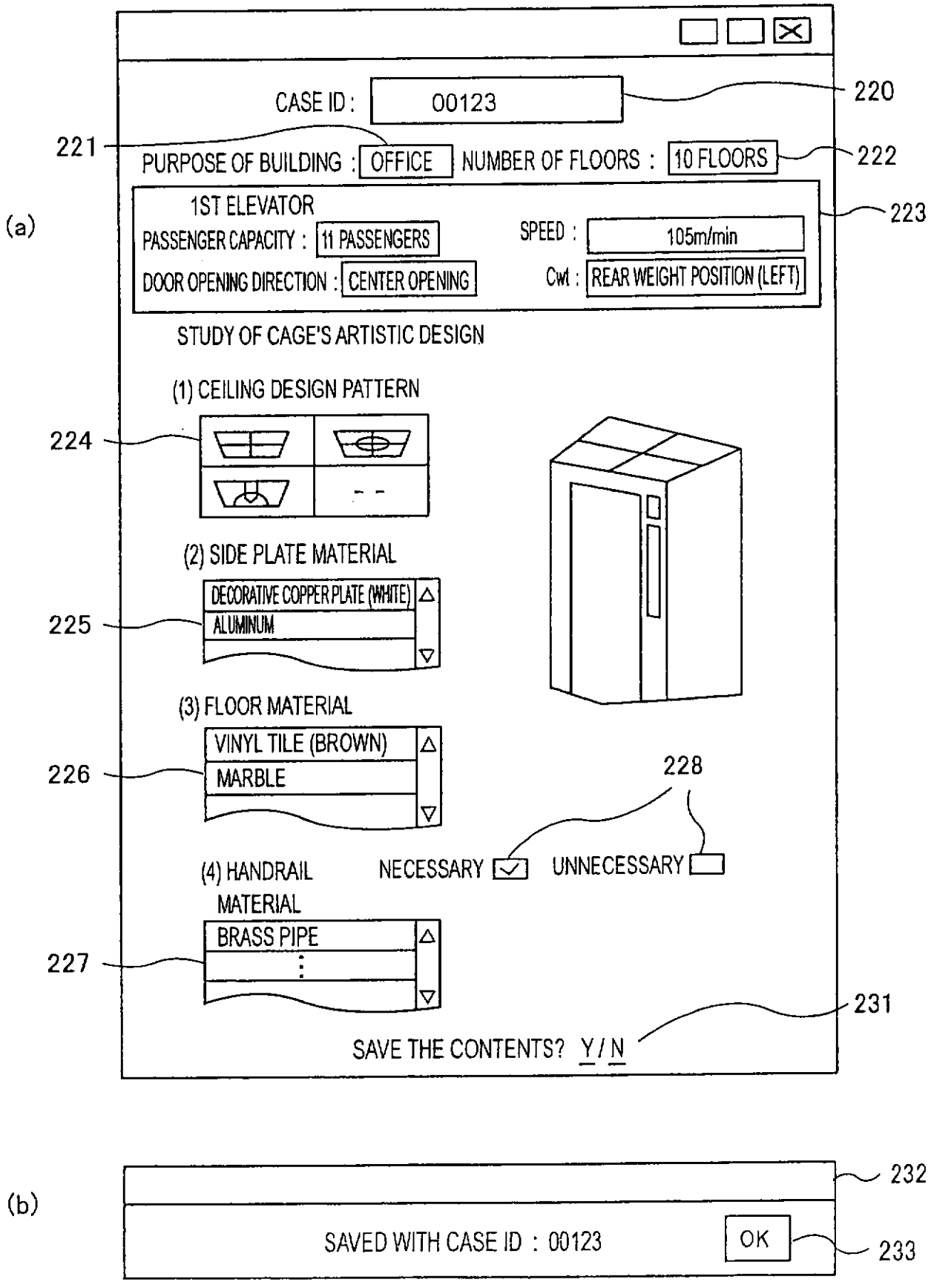

CASE ID :
00123
220
221
PURPOSE OF BUILDING :
OFFICE
NUMBER OF FLOORS :
10 FLOORS
222
1ST ELEVATOR
223
PASSENGER CAPACITY :
11 PASSENGERS
SPEED :
105m/min
DOOR OPENING DIRECTION :
CENTER OPENING
Cwt :
REAR WEIGHT POSITION (LEFT)
STUDY OF CAGE'S ARTISTIC DESIGN
(1) CEILING DESIGN PATTERN
224
(2) SIDE PLATE MATERIAL
DECORATIVE COPPER PLATE (WHITE)
ALUMINUM
225
(3) FLOOR MATERIAL
VINYL TILE (BROWN)
MARBLE
226
228
NECESSARY
UNNECESSARY
(4) HANDRAIL MATERIAL
BRASS PIPE
227
SENDING
229

FIG.32


(a)
CASE ID : 00123
220
221
PURPOSE OF BUILDING : OFFICE
NUMBER OF FLOORS : 10 FLOORS
222
1ST ELEVATOR
223
PASSENGER CAPACITY : 11 PASSENGERS
SPEED : 105m/min
DOOR OPENING DIRECTION : CENTER OPENING
Cwt : REAR WEIGHT POSITION (LEFT)
STUDY OF CAGE'S ARTISTIC DESIGN
(1) CEILING DESIGN PATTERN
224
(2) SIDE PLATE MATERIAL
DECORATIVE COPPER PLATE (WHITE)
ALUMINUM
225
(3) FLOOR MATERIAL
VINYL TILE (BROWN)
MARBLE
226
228
(4) HANDRAIL MATERIAL
NECESSARY
UNNECESSARY
BRASS PIPE
227
231
SAVE THE CONTENTS? Y / N
(b)
232
SAVED WITH CASE ID : 00123
OK
233

16 FEB 2004



FIG.33

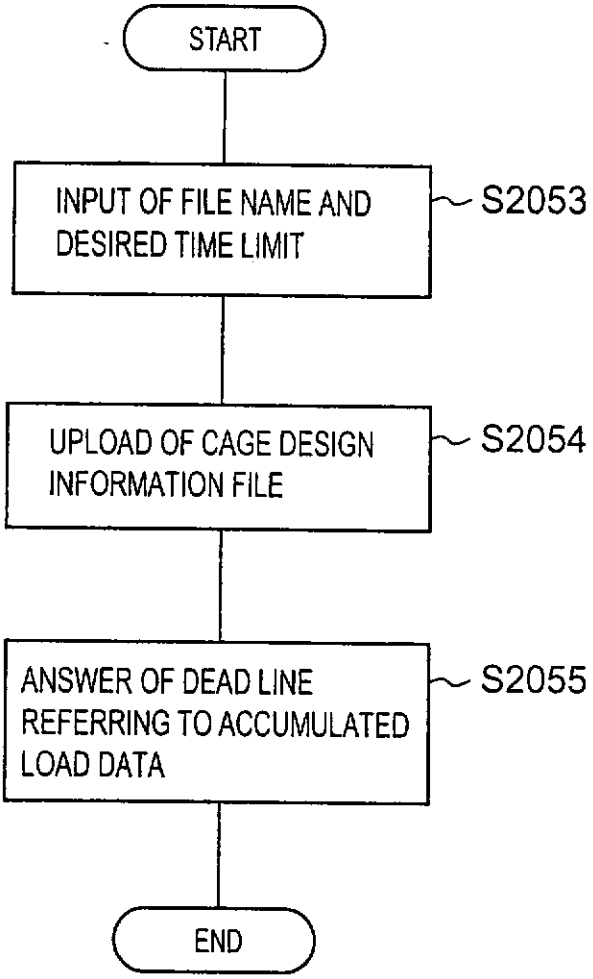


FIG.34

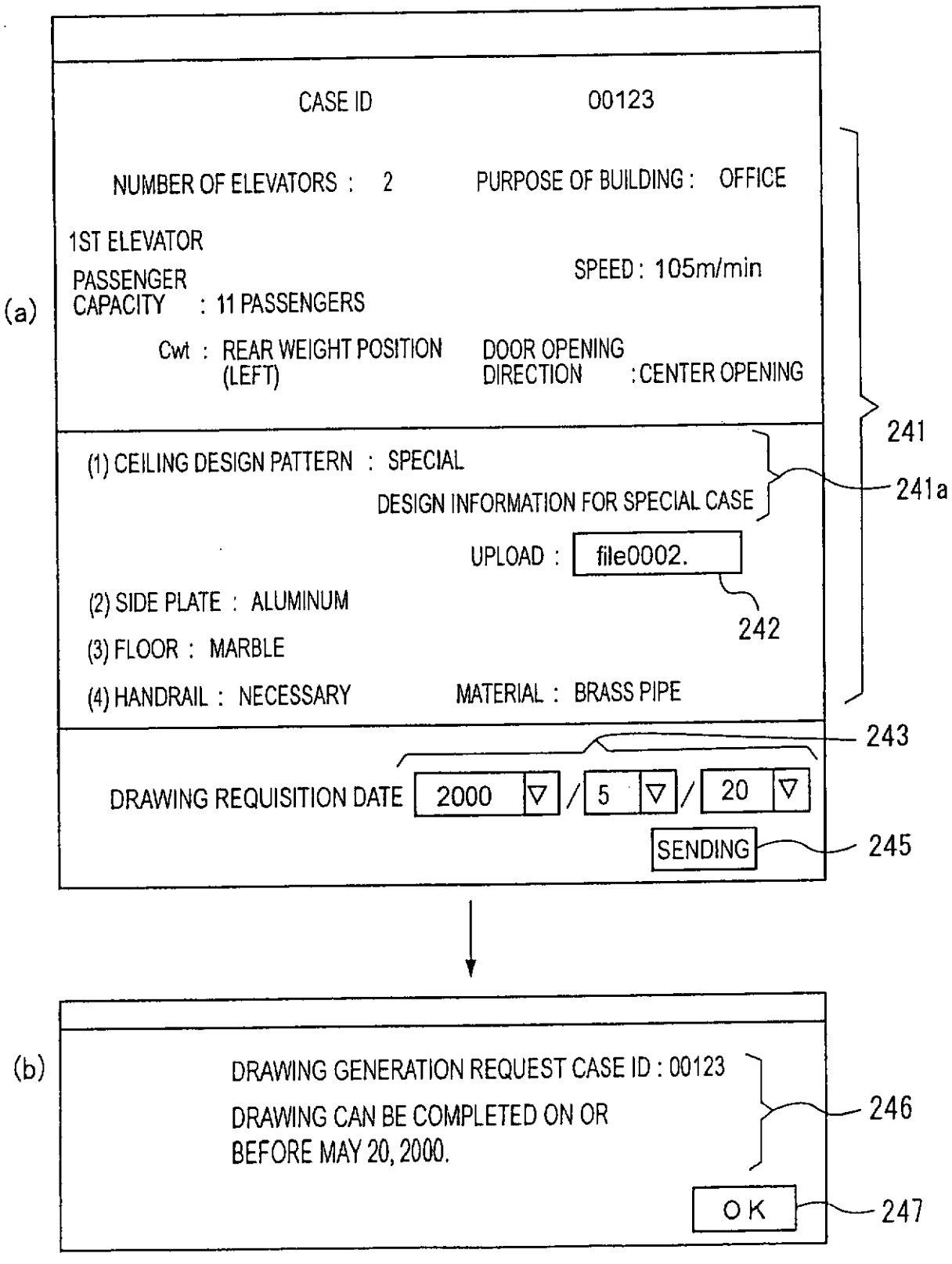

(a)
CASE ID
00123
NUMBER OF ELEVATORS : 2
PURPOSE OF BUILDING : OFFICE
1ST ELEVATOR
PASSENGER CAPACITY : 11 PASSENGERS
SPEED : 105m/min
Cwt : REAR WEIGHT POSITION (LEFT)
DOOR OPENING DIRECTION : CENTER OPENING
(1) CEILING DESIGN PATTERN : SPECIAL
DESIGN INFORMATION FOR SPECIAL CASE
UPLOAD : file0002.
(2) SIDE PLATE : ALUMINUM
(3) FLOOR : MARBLE
(4) HANDRAIL : NECESSARY
MATERIAL : BRASS PIPE
241
241a
242
243
DRAWING REQUISITION DATE
2000
5
20
SENDING
245
(b)
DRAWING GENERATION REQUEST CASE ID : 00123
DRAWING CAN BE COMPLETED ON OR BEFORE MAY 20, 2000.
246
OK
247

FIG.35

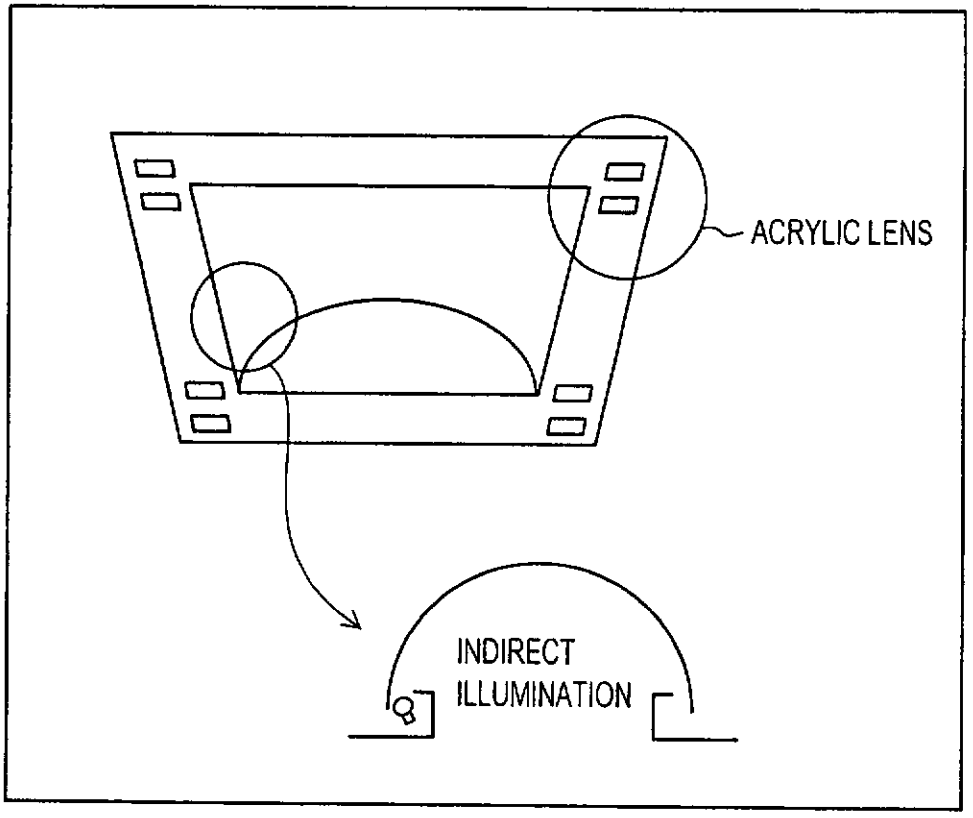


FIG.36

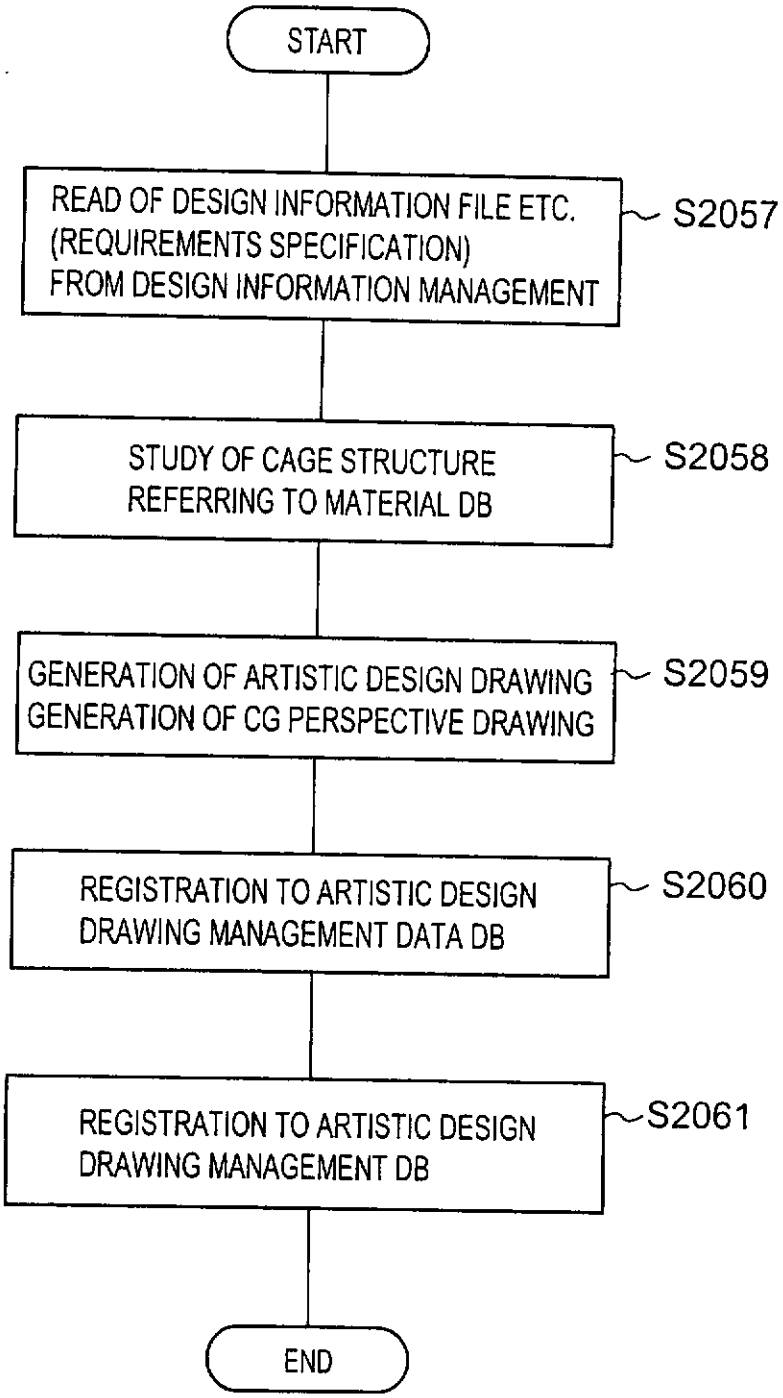
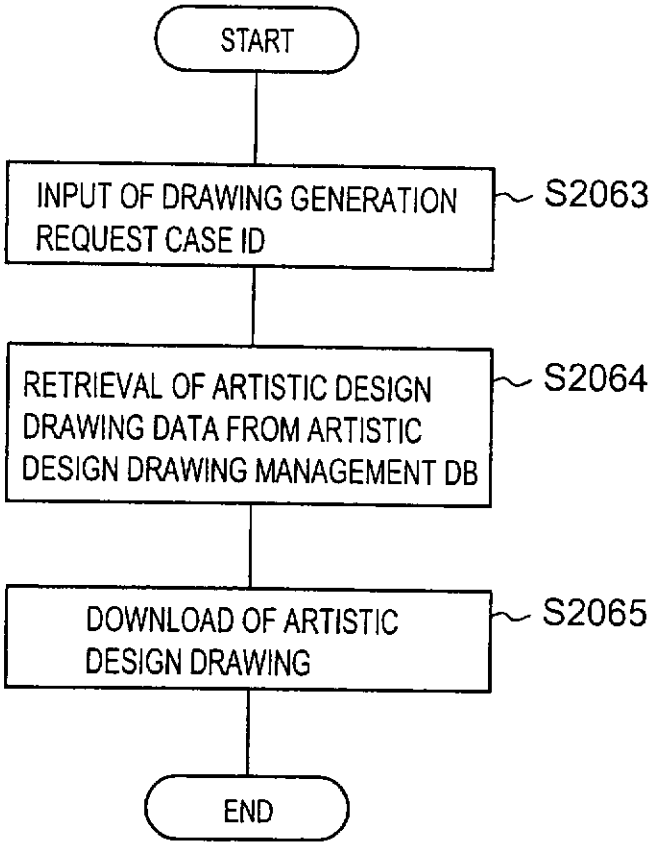

START
READ OF DESIGN INFORMATION FILE ETC. (REQUIREMENTS SPECIFICATION) FROM DESIGN INFORMATION MANAGEMENT
S2057
STUDY OF CAGE STRUCTURE REFERRING TO MATERIAL DB
S2058
GENERATION OF ARTISTIC DESIGN DRAWING GENERATION OF CG PERSPECTIVE DRAWING
S2059
REGISTRATION TO ARTISTIC DESIGN DRAWING MANAGEMENT DATA DB
S2060
REGISTRATION TO ARTISTIC DESIGN DRAWING MANAGEMENT DB
S2061
END

FIG.37


START
INPUT OF DRAWING GENERATION REQUEST CASE ID
S2063
RETRIEVAL OF ARTISTIC DESIGN DRAWING DATA FROM ARTISTIC DESIGN DRAWING MANAGEMENT DB
S2064
DOWNLOAD OF ARTISTIC DESIGN DRAWING
S2065
END