

FIG. 1

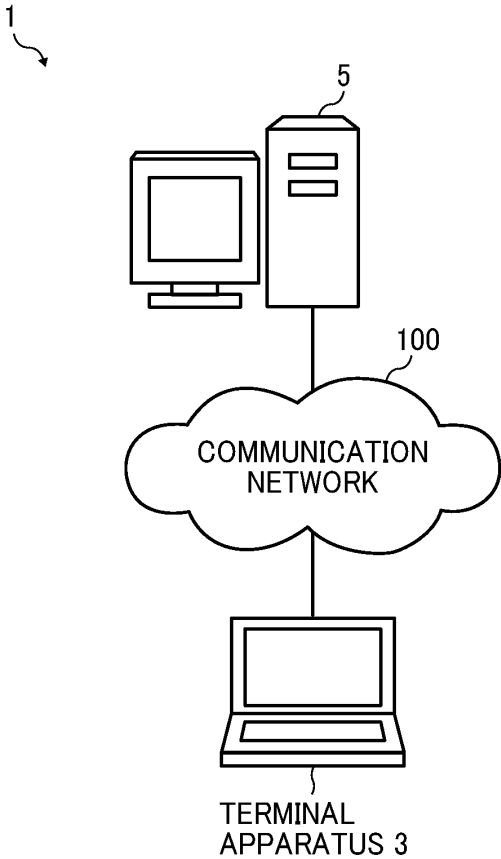


FIG. 2

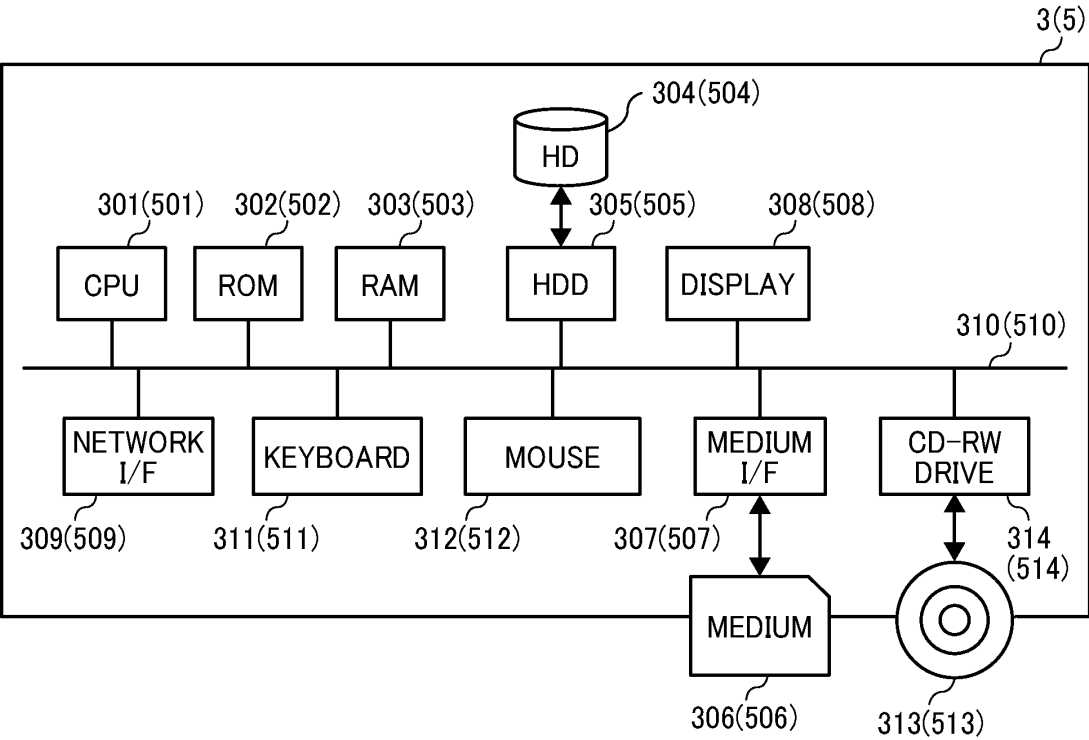


FIG. 3

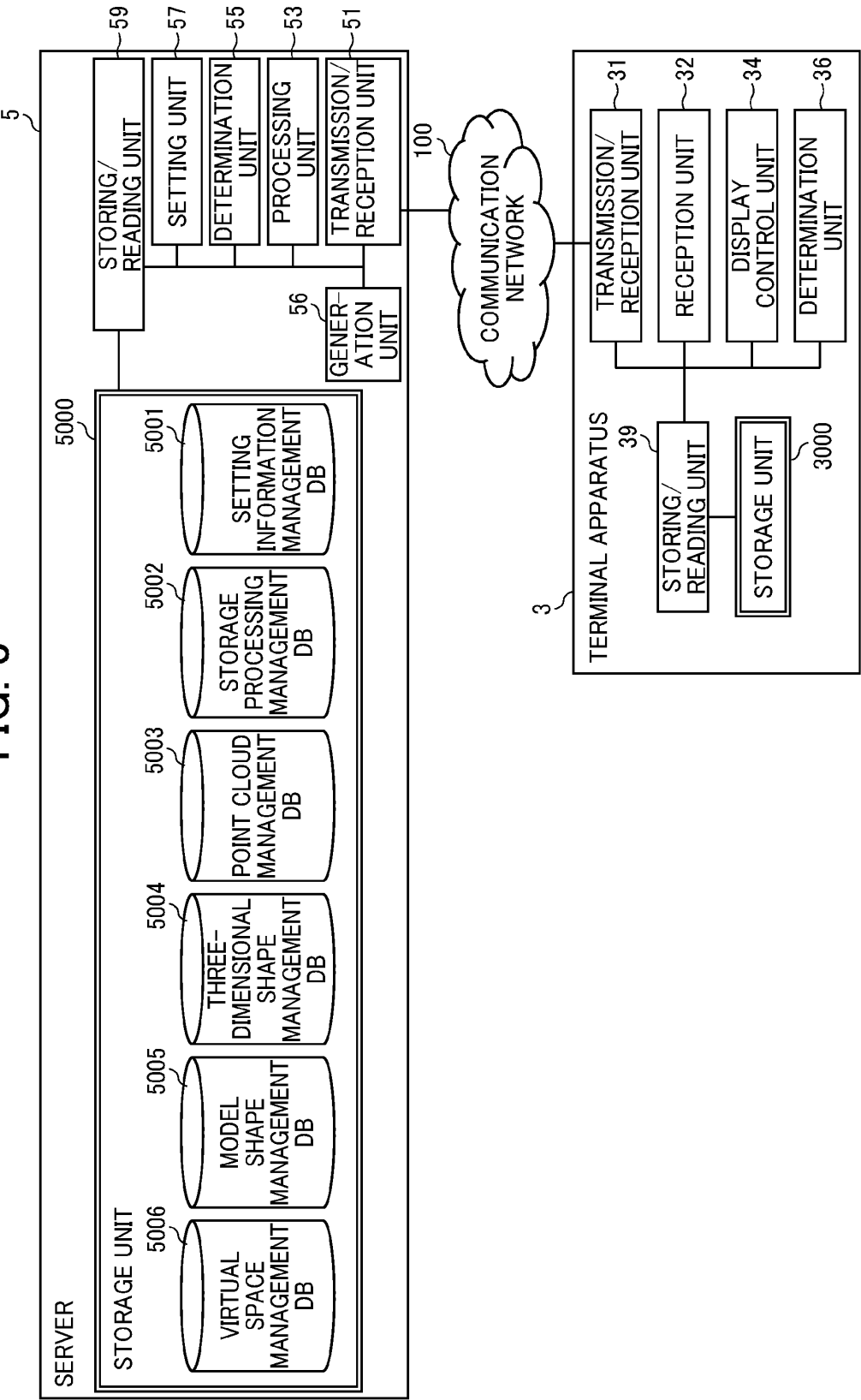


FIG. 4

5001

USER ID	POINT CLOUD DATA	PROCESSING HISTORY	ATTRIBUTE INFORMATION
1	x x	YYYY, MMMM, DD •PROCESSING: REGISTRATION, NOISE REMOVAL, SEGMENTATION, MODELING •SELECTED MODEL PIPE (MODEL A), DESK YYYY, MMMM, DD	SITE WORKER
2	x x	YYYY, MMMM, DD	MANAGEMENT SUPERVISOR

FIG. 5A
FIG. 5
FIG. 5A
FIG. 5B

VIRTUAL SPACE IDENTIFICATION INFORMATION		MODEL IDENTIFICATION INFORMATION	POSITION INFORMATION	ITEM (GROUP) INFORMATION	USAGE INFORMATION	ATTRIBUTE INFORMATION	OPERATION TYPE	OPERATION INFORMATION	RECOMMENDATION INFORMATION
V0001		M0001	X1,Y1,Z1	MACHINE	SITE INVESTIGATION (TRANSPORTATION PLAN)	-	MOVEMENT	X1,Y1,Z1→X2,Y2,Z2	DISPLAY AVAILABLE ROUTES FOR MOVEMENT
		...	...	CYLINDER	SITE INVESTIGATION (CREATING ESTIMATE)	-	ROTATION	Xa,Ya,Za - Xb,Yb,Zb	DIAMETER MEASUREMENT INFORMATION
		...	...	CARDBOARD BOXES	SITE INVESTIGATION (CREATING ESTIMATE)	-	ROTATION	...	COUNTING
		...	...	FLOOR	DESIGN	-	ITEM PLACEMENT	...	COMMENT(S): The seat A will not be exposed to the wind. The object may not pass through the opening.
		...	...	FLOOR	SITE INVESTIGATION (TRANSPORTATION PLAN)	-	ITEM PLACEMENT	...	TRANSPORTATION COST
V0002		...	...	FLOOR	SITE INVESTIGATION (TRANSPORTATION PLAN)	-	ITEM PLACEMENT + SIZE CHANGE	...	TRANSPORTATION COST AFTER SIZE CHANGE COMMENT(S): The object may not pass through the opening.
		...	...	PIPE	SITE INVESTIGATION (CREATING ESTIMATE)	-	ROTATION	...	DIAMETER MEASUREMENT INFORMATION

5006

FIG. 5B

...	...	...	PIPE	MAINTENANCE MANAGEMENT	-	ROTATION	...	DEGREE OF DEFICIENCY, RISKS ARISING FROM DEFICIENCY
...	...	...	HEAT-PRODUCING MACHINE	SITE INVESTIGATION (TRANSPORTATION PLAN)	-	PINCH (MOVEMENT)	...	HIGHLIGHT AREA AVAILABLE FOR MOVEMENT WITHIN SPACE
...	...	...	CEILING RECESSED LIGHTING FIXTURE	MAINTENANCE MANAGEMENT	-	CLICK	...	DEGREE OF WEAR AND TEAR (E.G. WHETHER IT CAN BE CUT OR NOT)
...	...	...	AIR CONDITIONING OUTDOOR UNIT PLACED OUTDOORS	SUMMER	-	CLICK	...	TEMPERATURE
...	...	...	AIR CONDITIONING OUTDOOR UNIT PLACED OUTDOORS	WINTER	-	CLICK	...	DEGREE OF FREEZING
...	...	...	REBAR PLACED OUTDOORS	SUMMER	-	CLICK	...	BODY TEMPERATURE (E.G., ABOVE 40 DEGREES CELSIUS)
...	...	...	ROOF	WINTER	-	CLICK	...	LOAD ON ROOF
...	...	...	HEAT-PRODUCING MACHINE	MAINTENANCE MANAGEMENT	SITE WORKER	CLICK	...	INSPECTION POINTS
...	...	...	HEAT-PRODUCING MACHINE	MAINTENANCE MANAGEMENT	MANAGEMENT SUPERVISOR	CLICK	...	COST OF REPLACEMENT (COST, TIME)
...	...	...	DESK	SITE INVESTIGATION (TRANSPORTATION PLAN)	SITE WORKER	PINCH (MOVEMENT)	...	HIGHLIGHT OF DESTINATION
...	...	...	DESK	SITE INVESTIGATION (TRANSPORTATION PLAN)	MANAGEMENT SUPERVISOR	CLICK	...	ADMINISTRATOR INFORMATION (NAME, AFFILIATION)

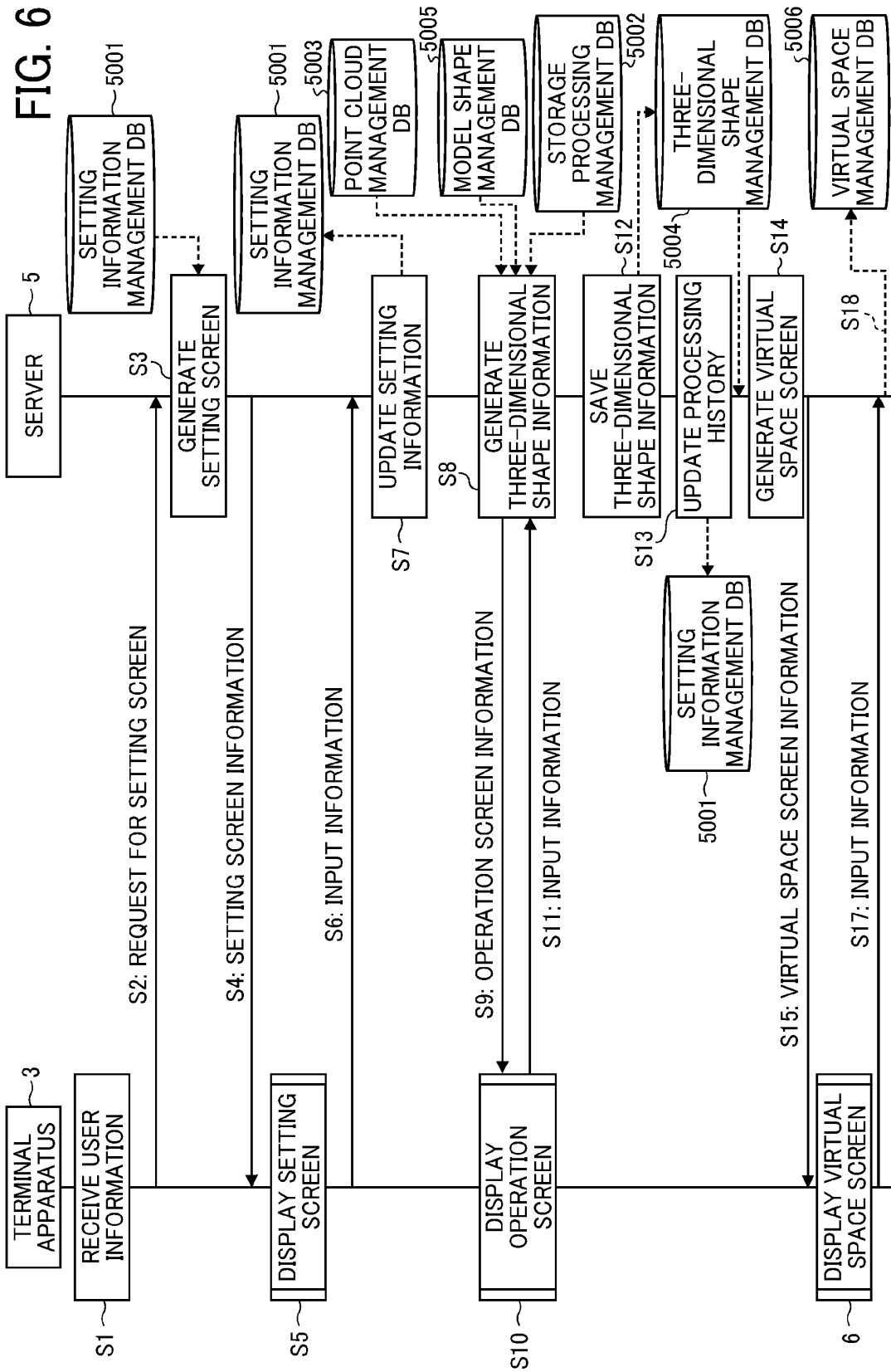


FIG. 7

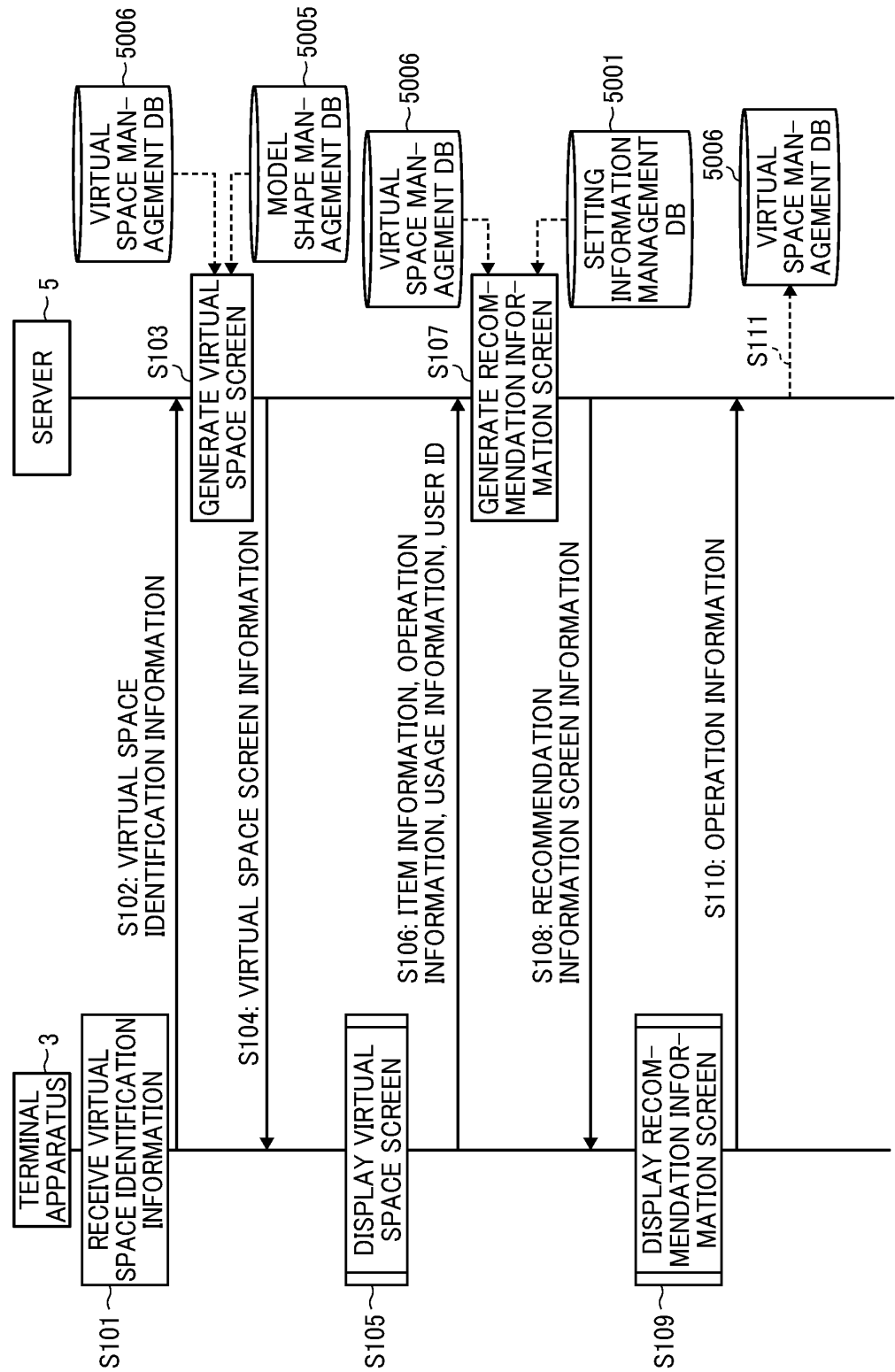


FIG. 8

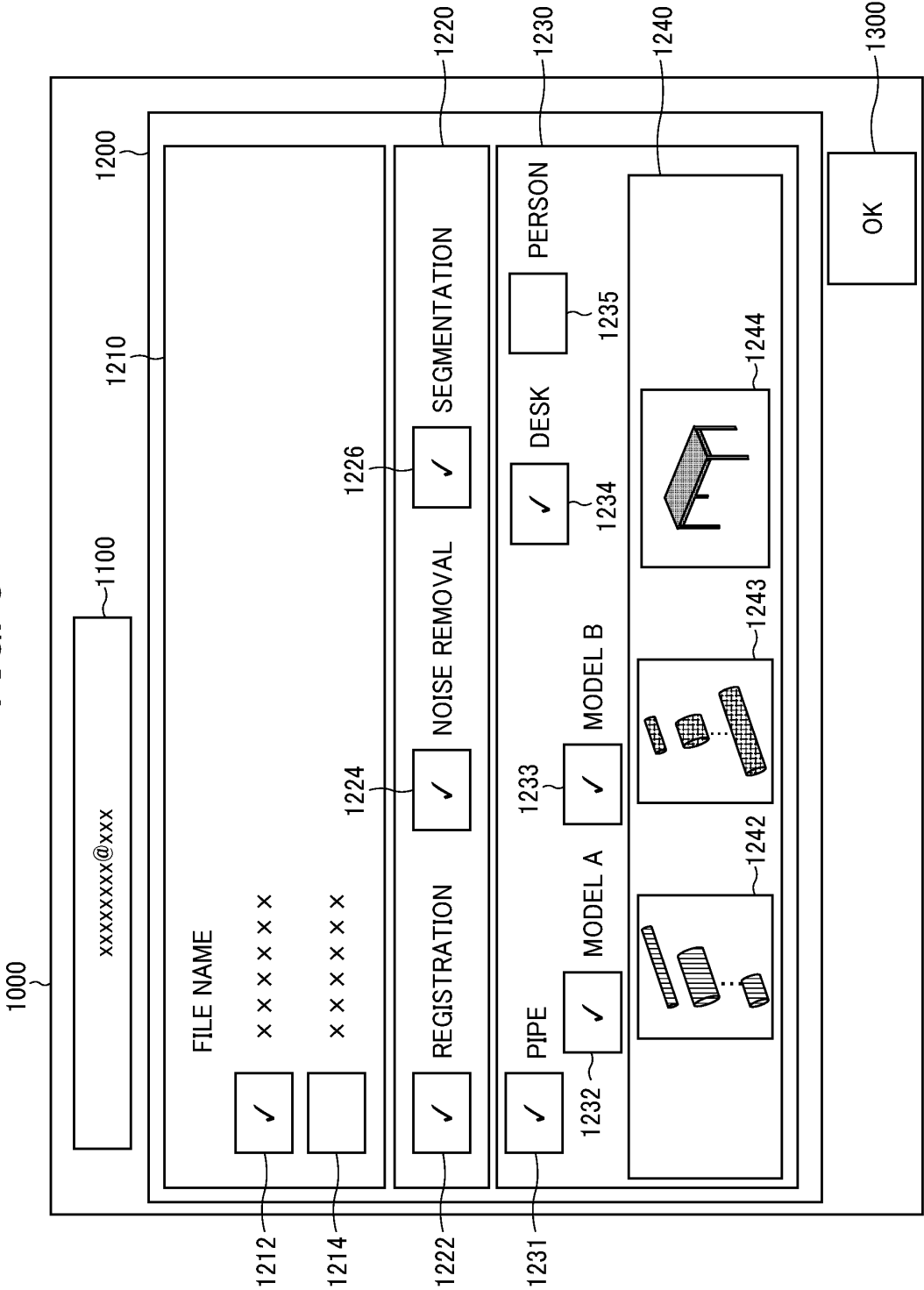


FIG. 9

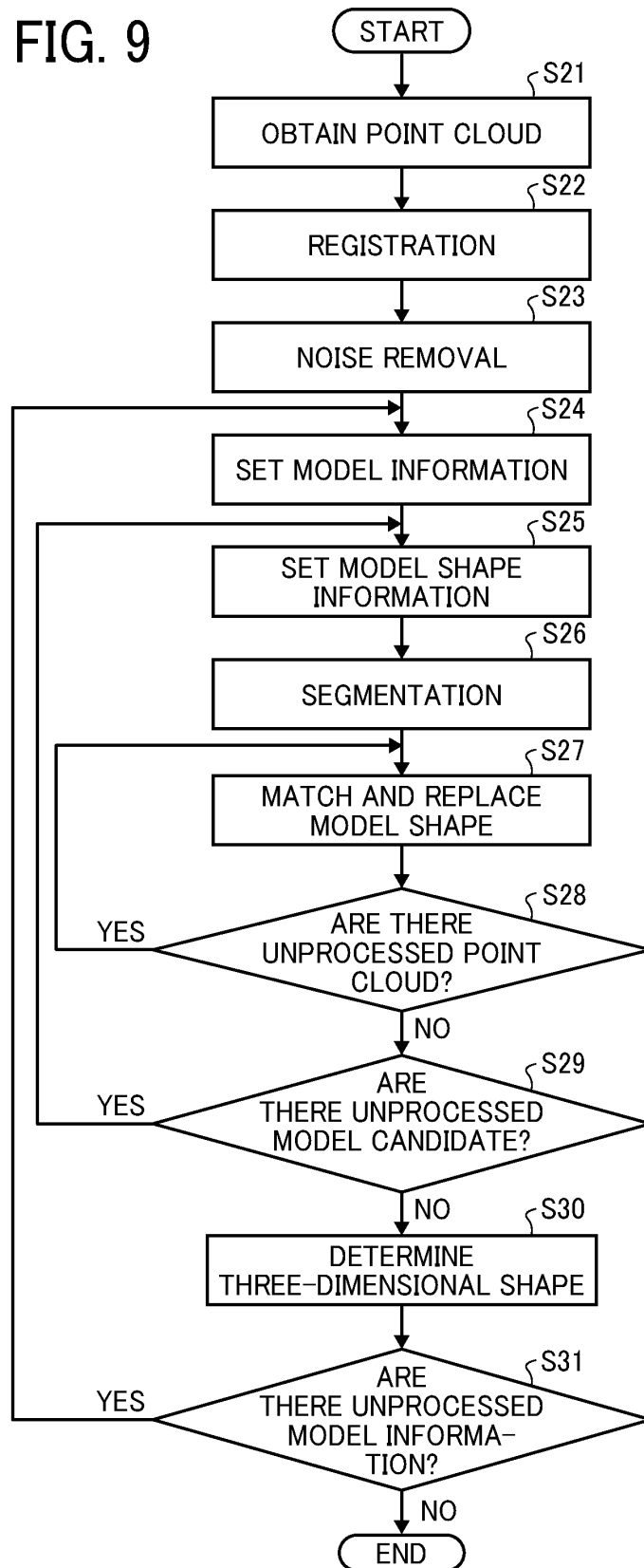


FIG. 10B

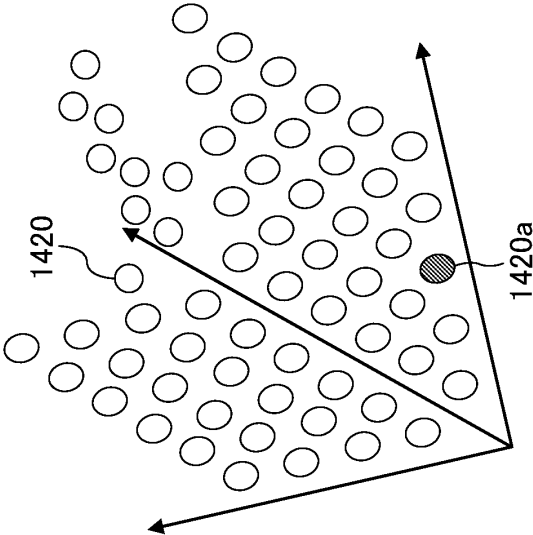


FIG. 10A

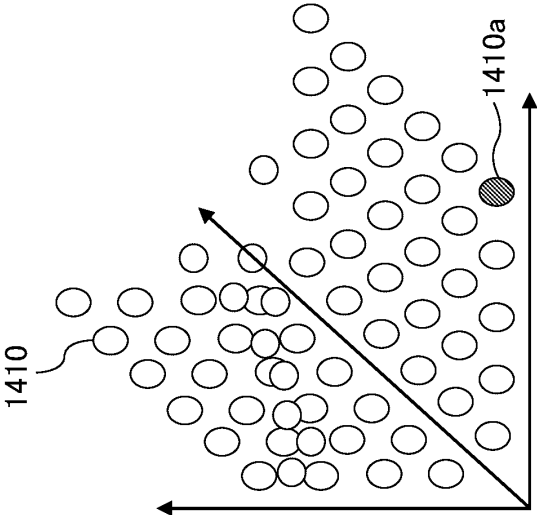


FIG. 12

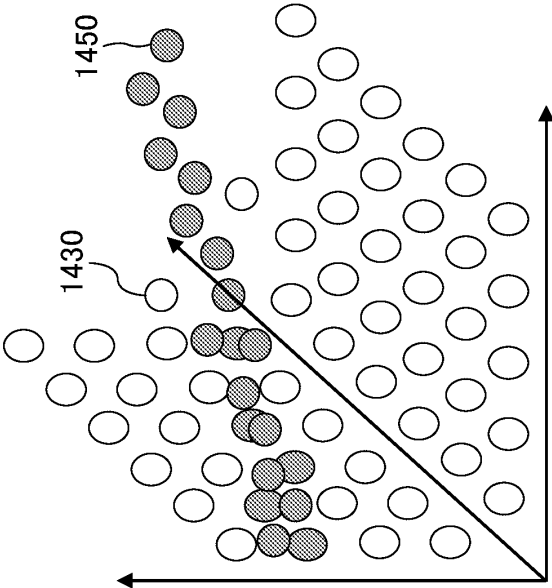


FIG. 11

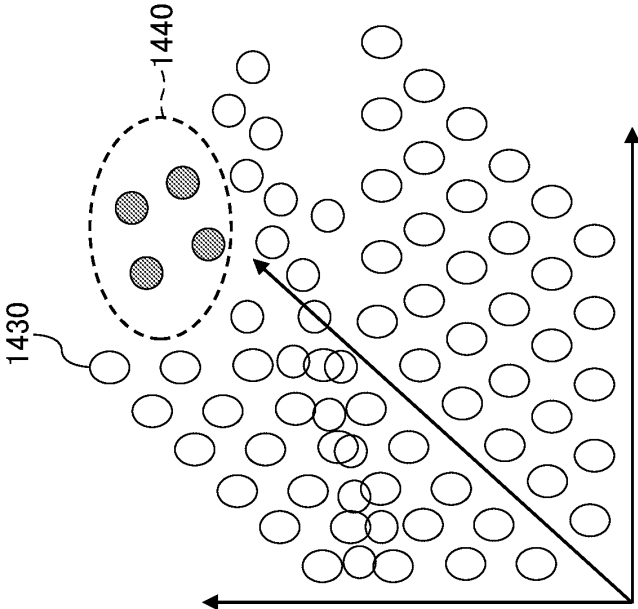


FIG. 13A

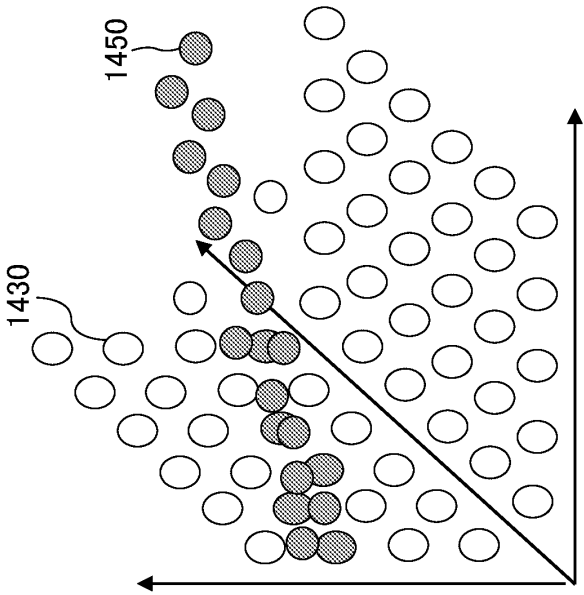


FIG. 13B

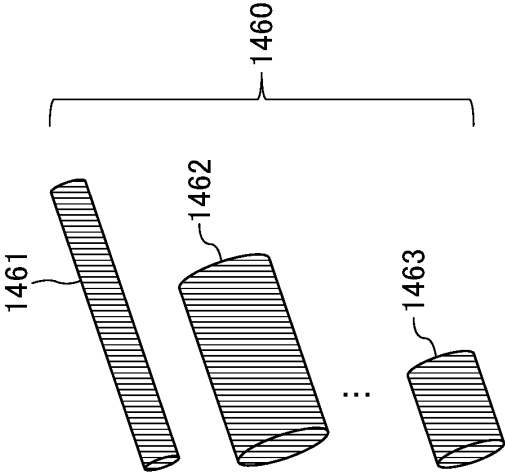


FIG. 13C

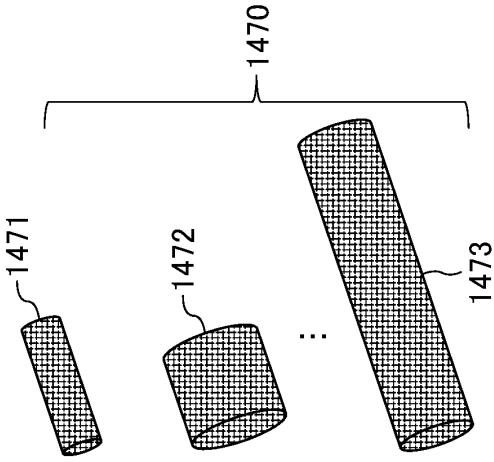


FIG. 14

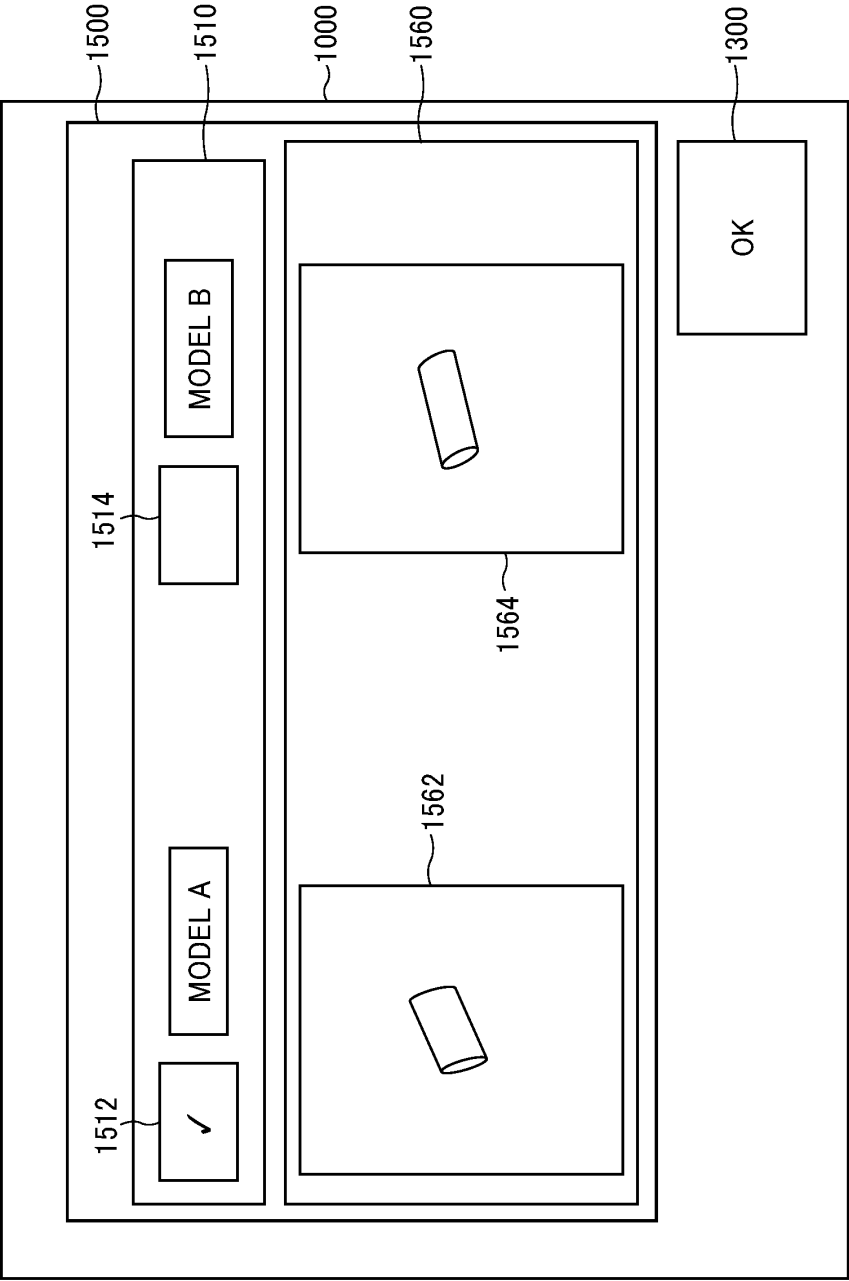


FIG. 15A

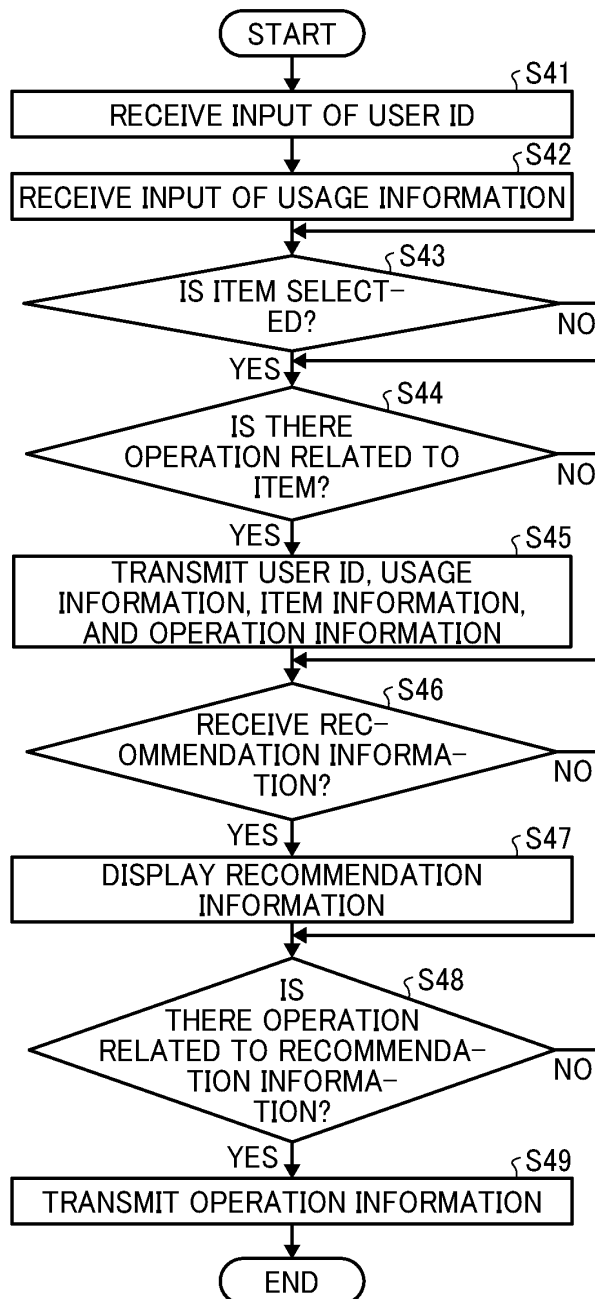


FIG. 15B

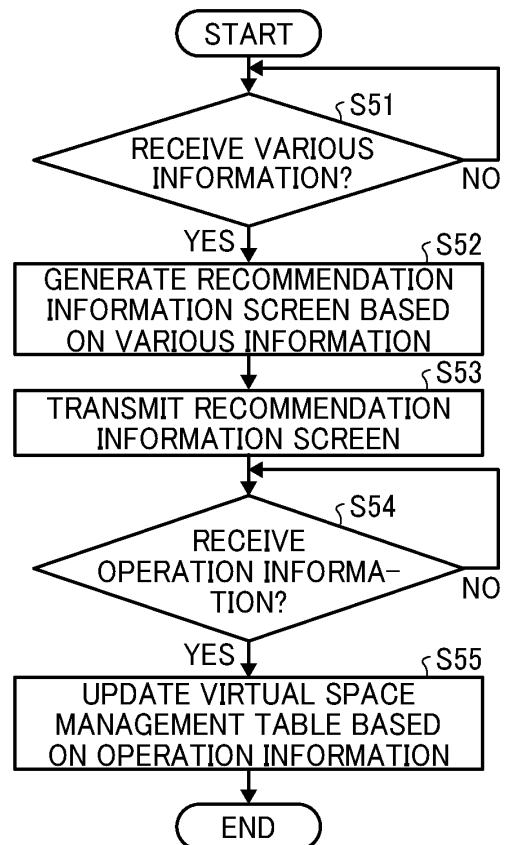


FIG. 16A

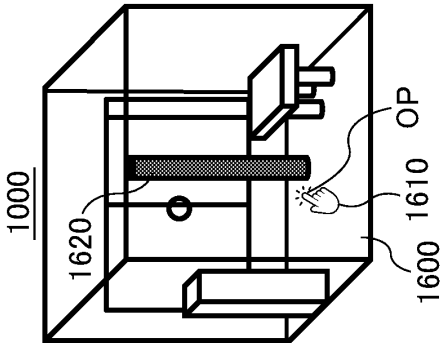


FIG. 16B

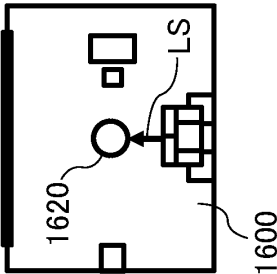


FIG. 16C

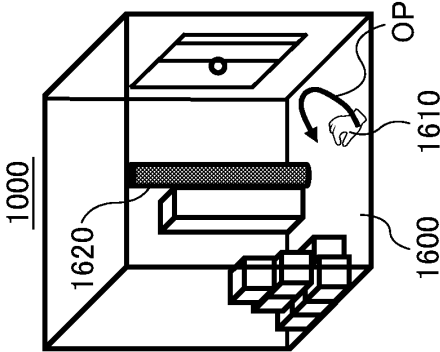


FIG. 16D

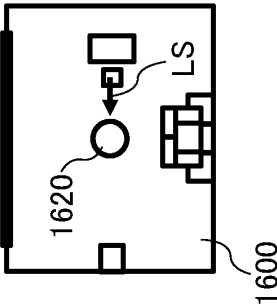


FIG. 16E

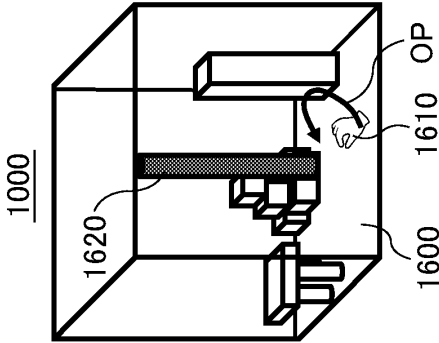


FIG. 16F

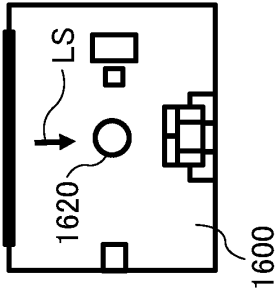


FIG. 16G

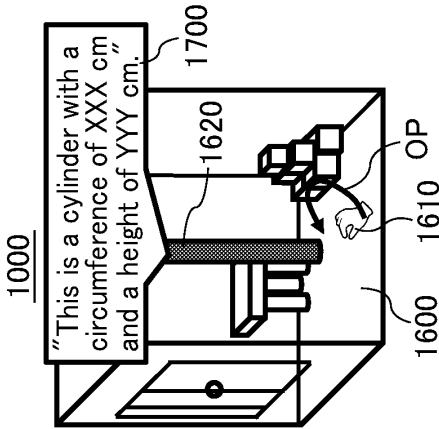


FIG. 16H

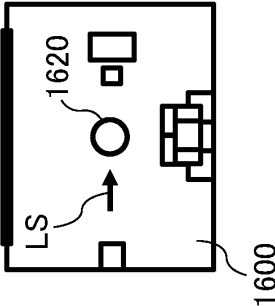


FIG. 17A

1000

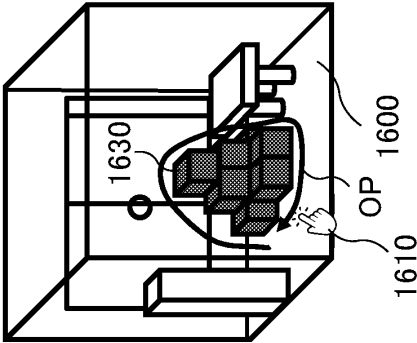


FIG. 17B

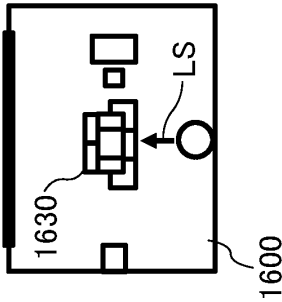


FIG. 17C

1000

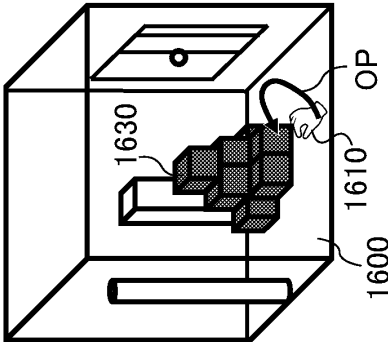


FIG. 17E

1000

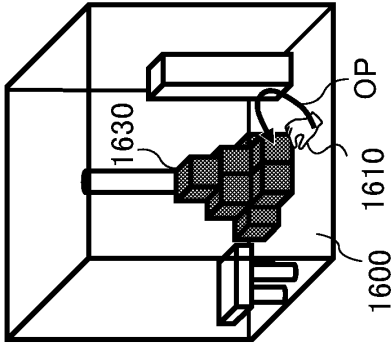


FIG. 17F

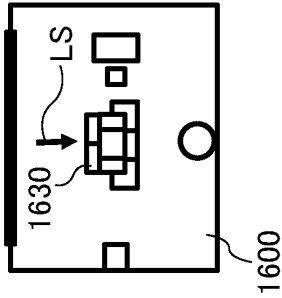


FIG. 17G

1000

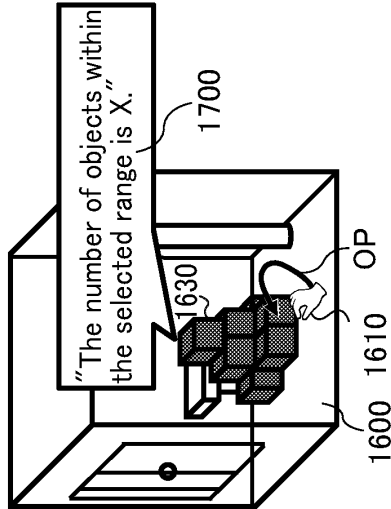


FIG. 17H

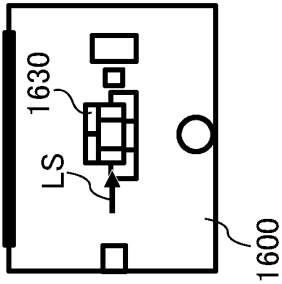


FIG. 18A

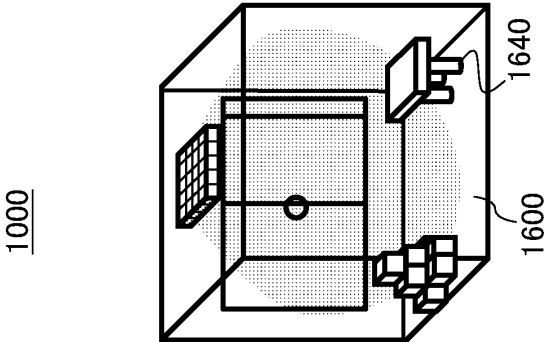


FIG. 18B

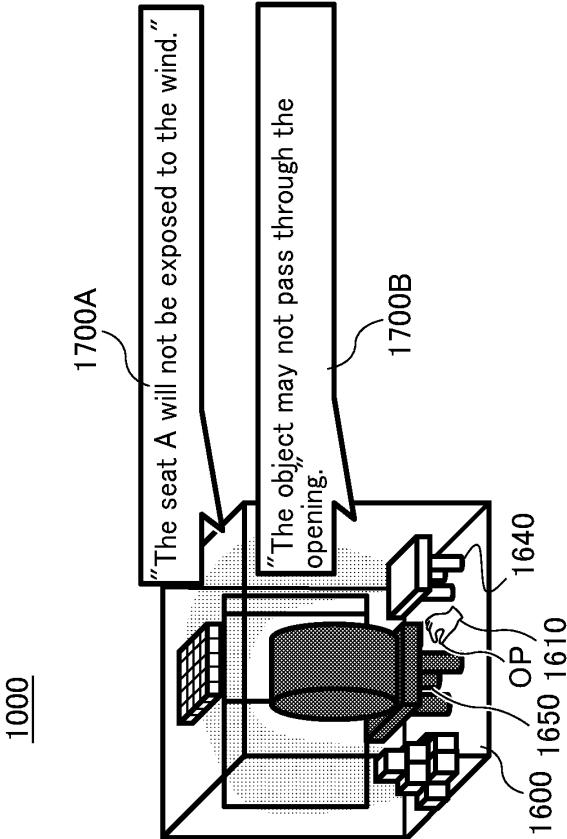


FIG. 19

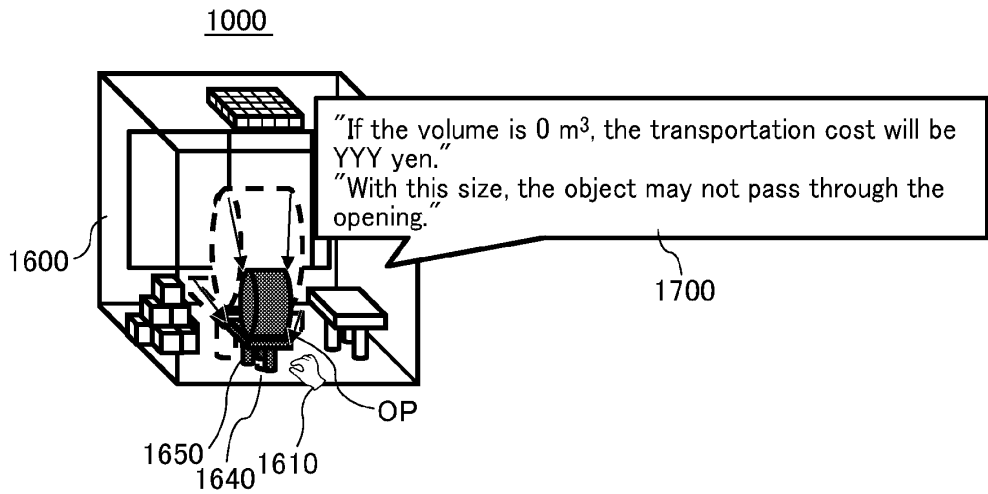


FIG. 20

