

FIG. 1

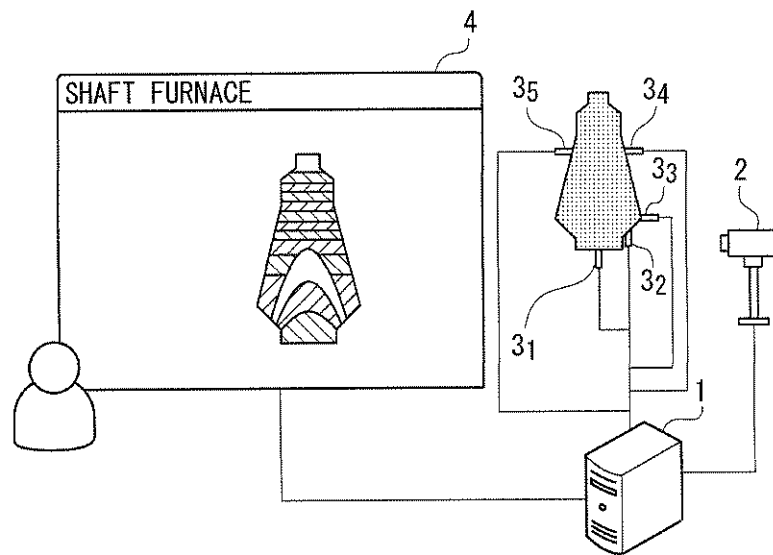


FIG.2

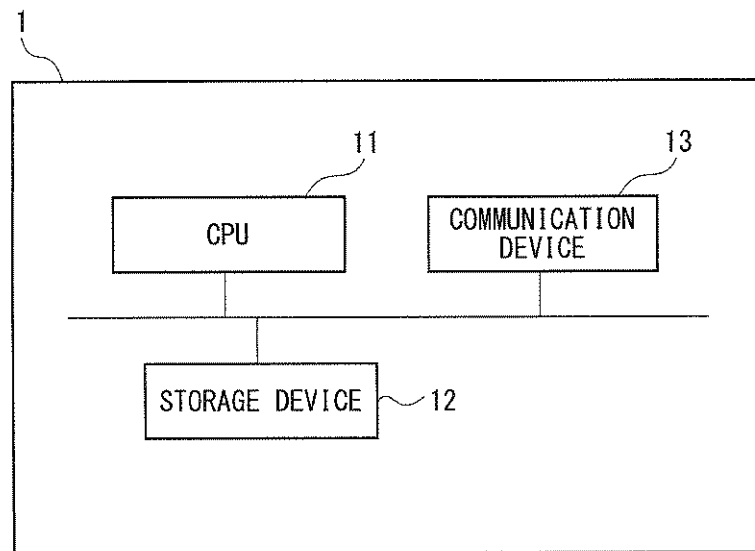


FIG.3

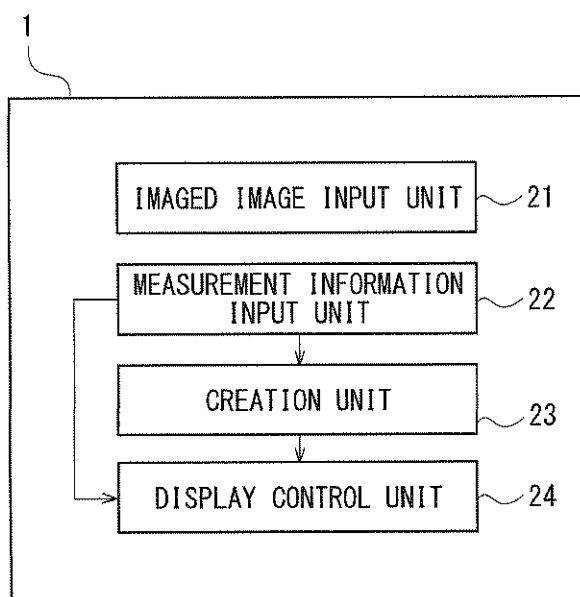


FIG.4

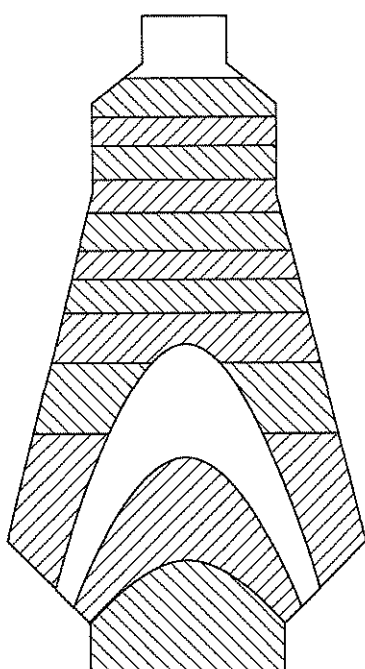


FIG.5

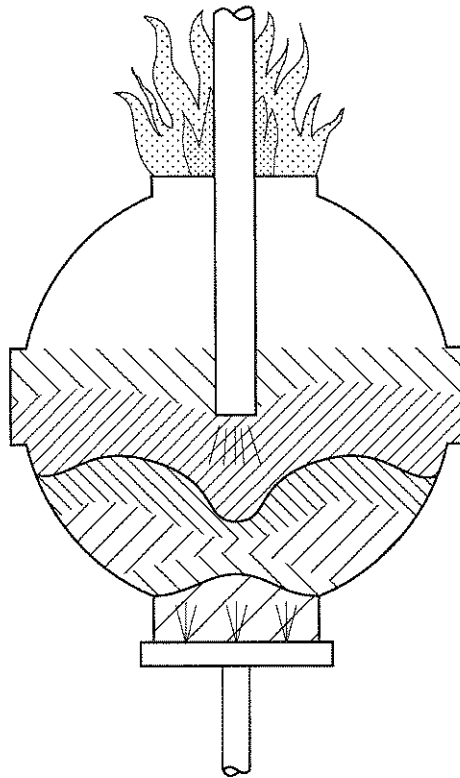


FIG.6

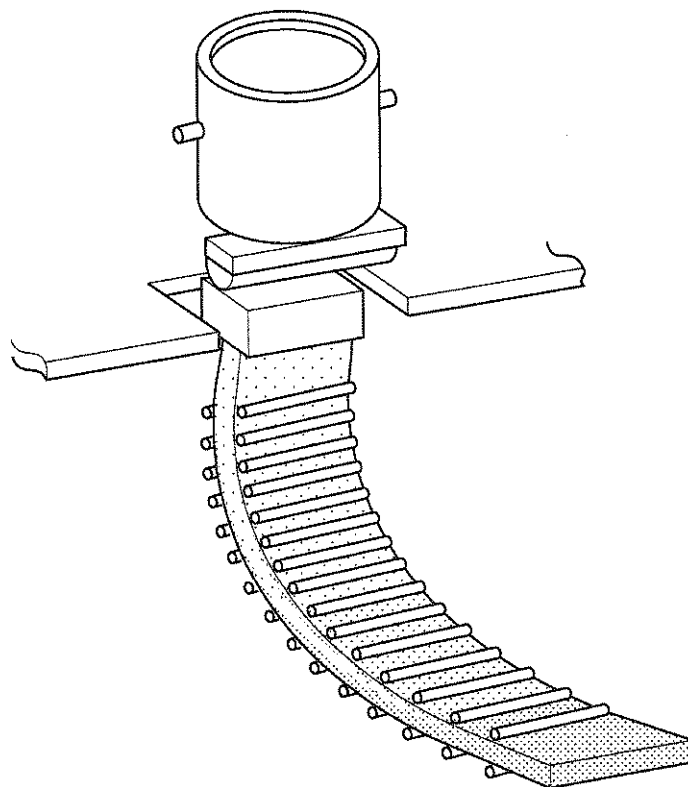


FIG. 7

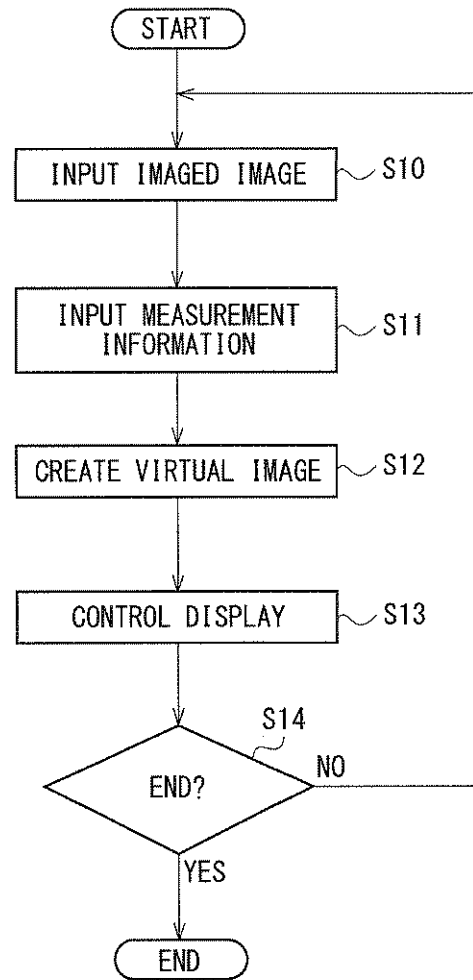


FIG. 8

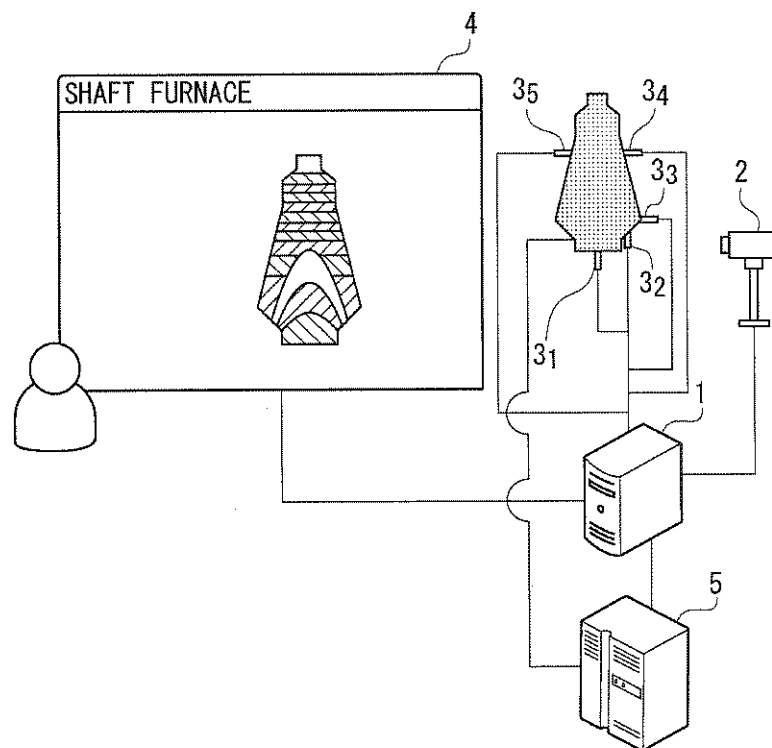


FIG.9

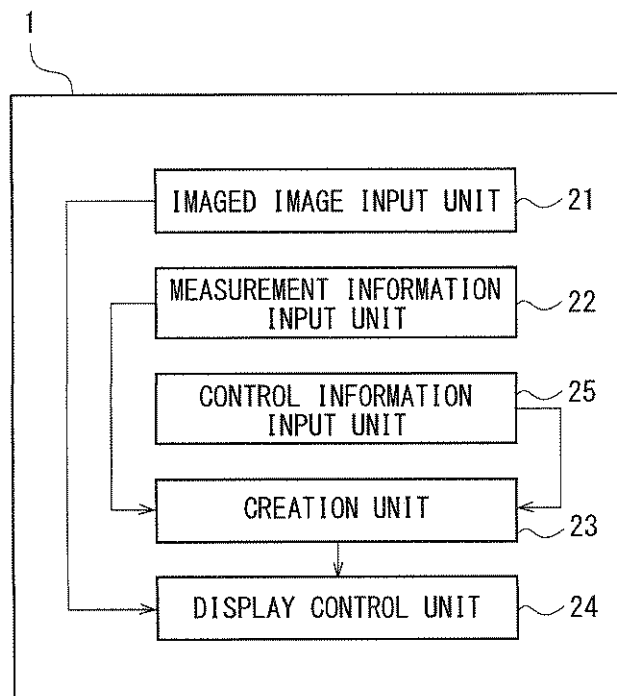


FIG.10

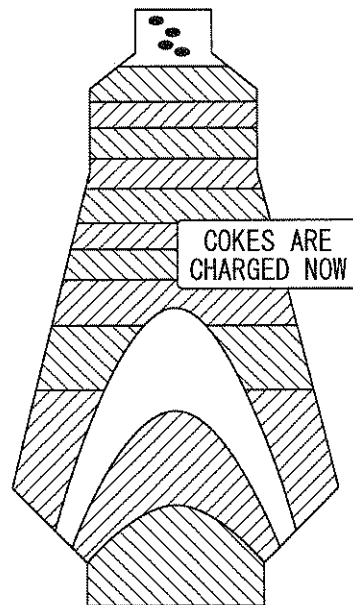


FIG. 11

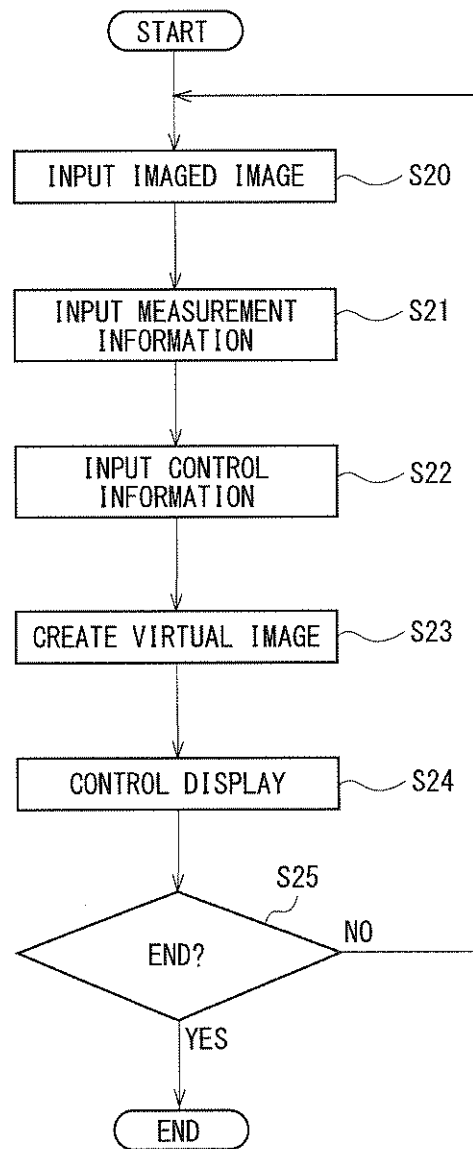


FIG. 12

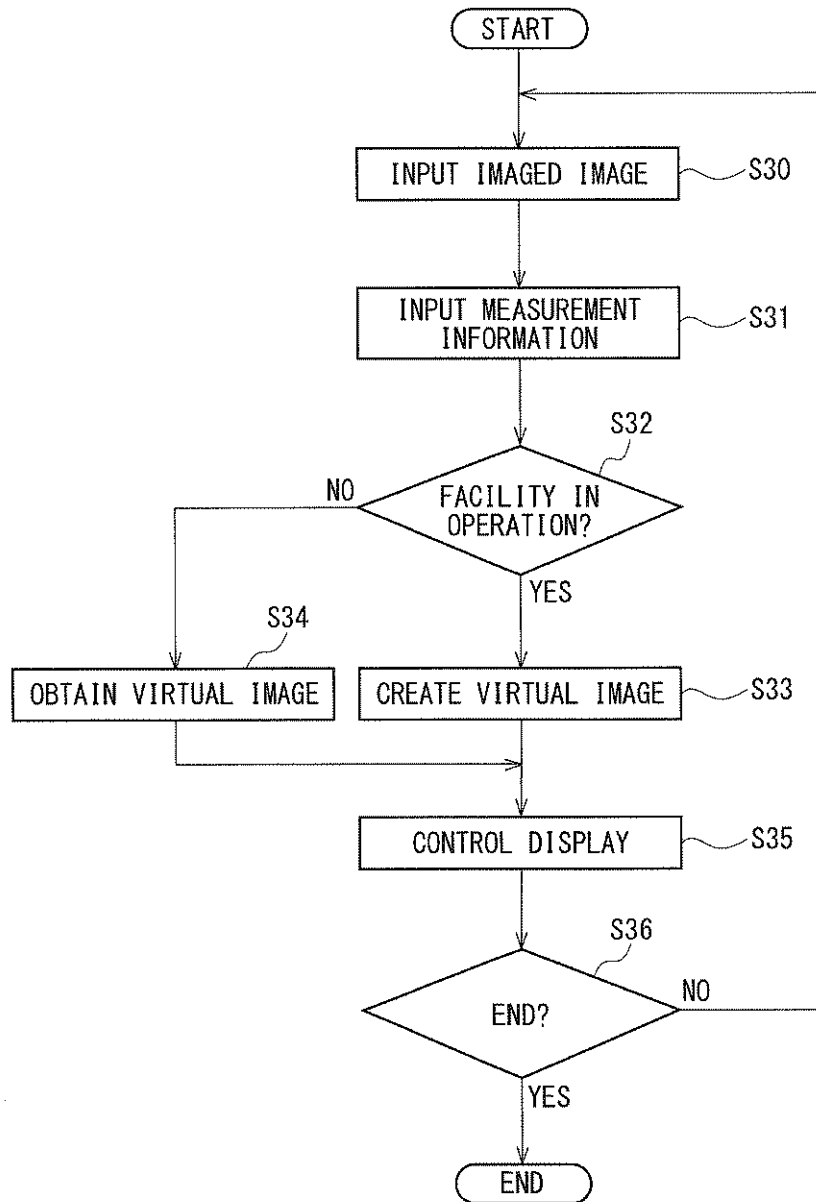


FIG.13A

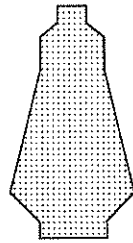


FIG.13B

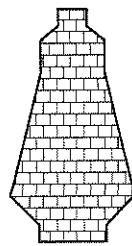


FIG.13C

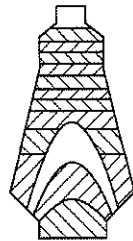


FIG.13D

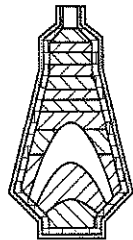


FIG. 14

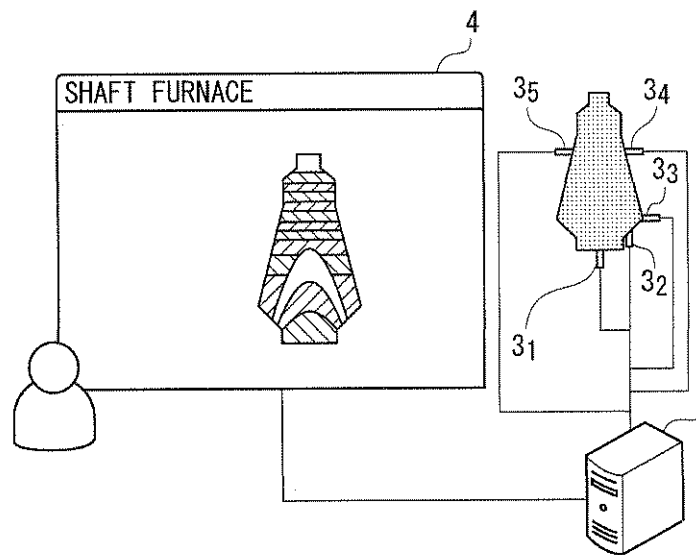


FIG.15

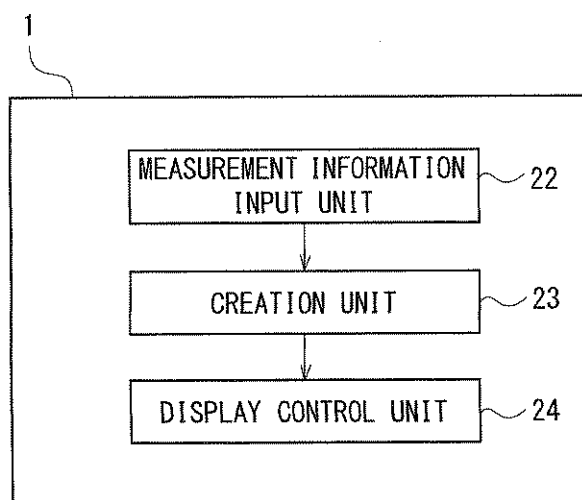


FIG.16

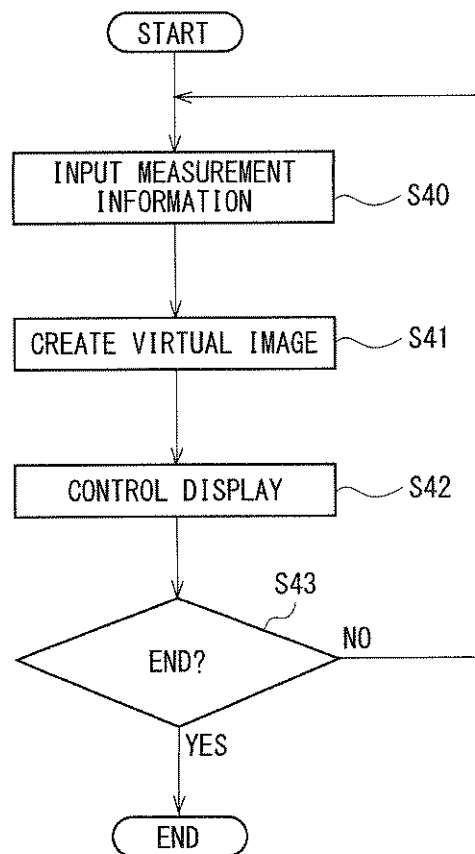


FIG.17

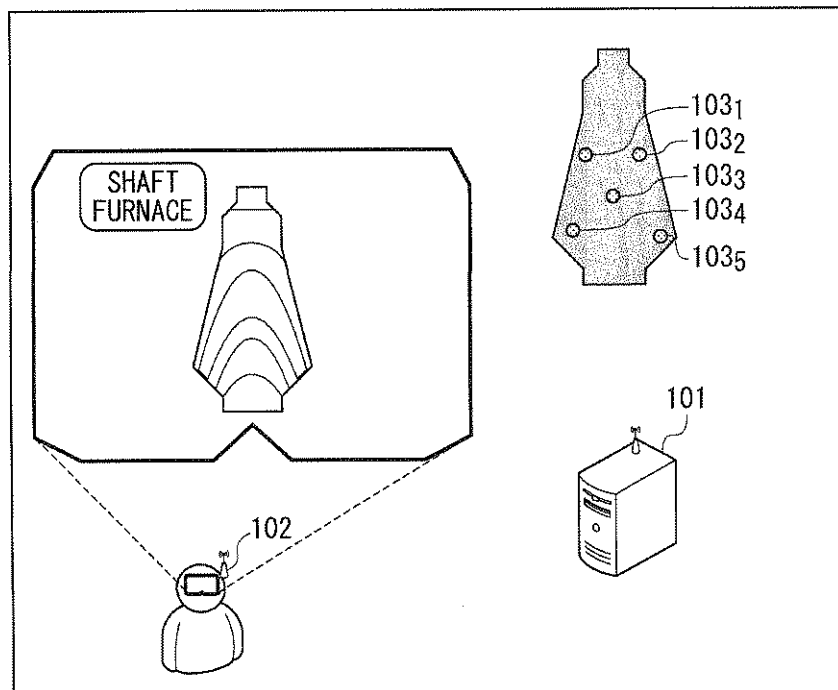


FIG. 18

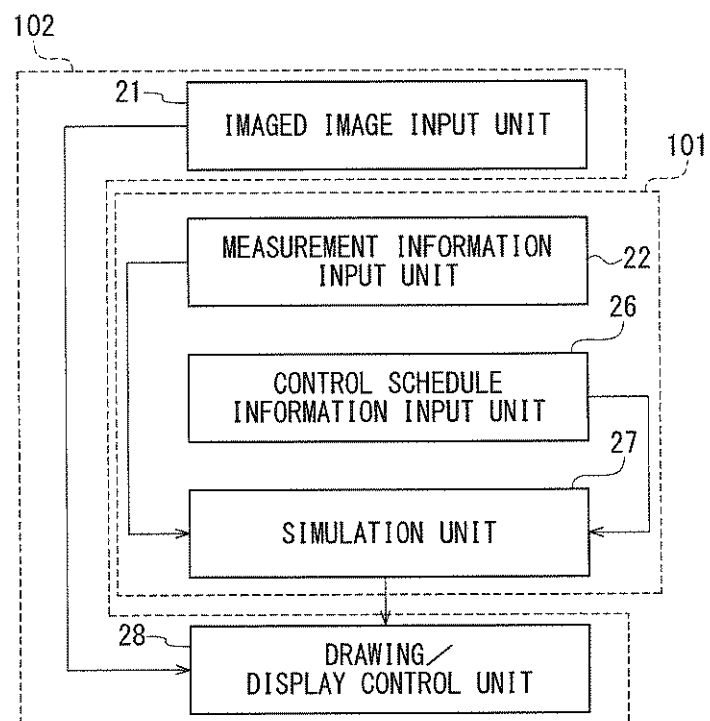


FIG. 19

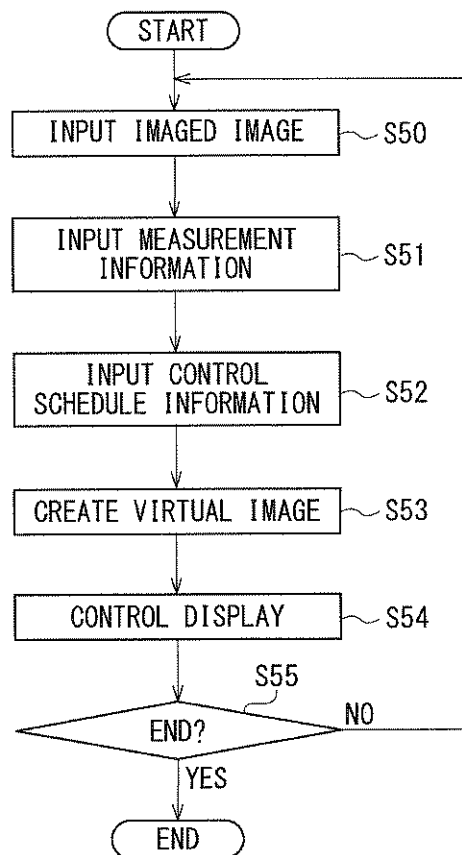


FIG.20

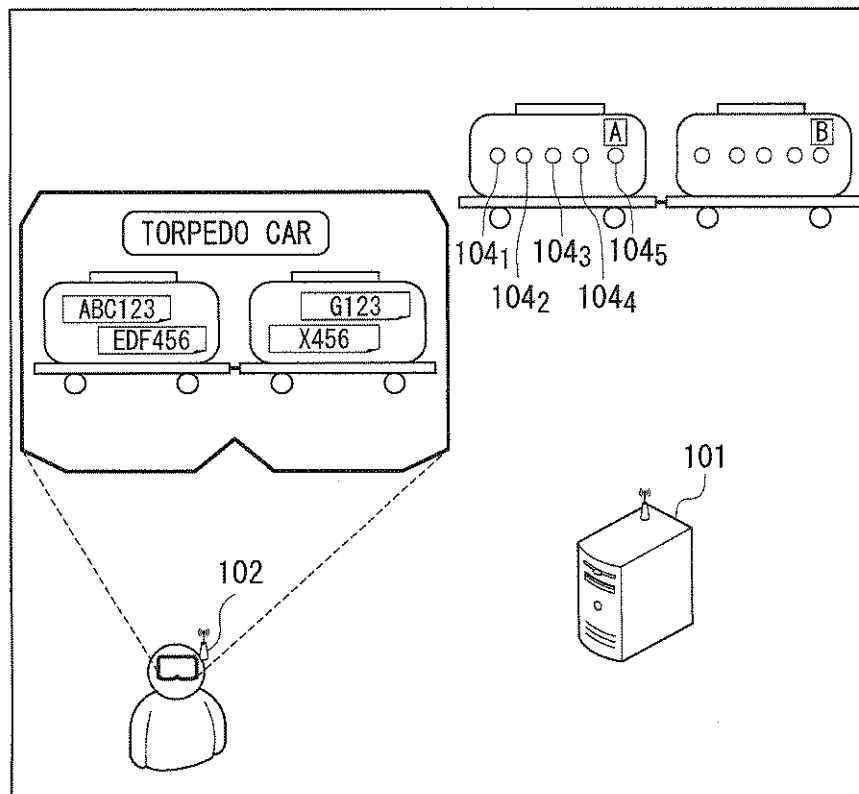


FIG.21

MARKER ID	FACILITY ID
MARKER A	TORPEDO CAR A
MARKER B	TORPEDO CAR B

FIG.22

FACILITY ID	ORDER ID
TORPEDO CAR A	ABC123
TORPEDO CAR A	EDF456
TORPEDO CAR B	G123
TORPEDO CAR B	X456

FIG.23

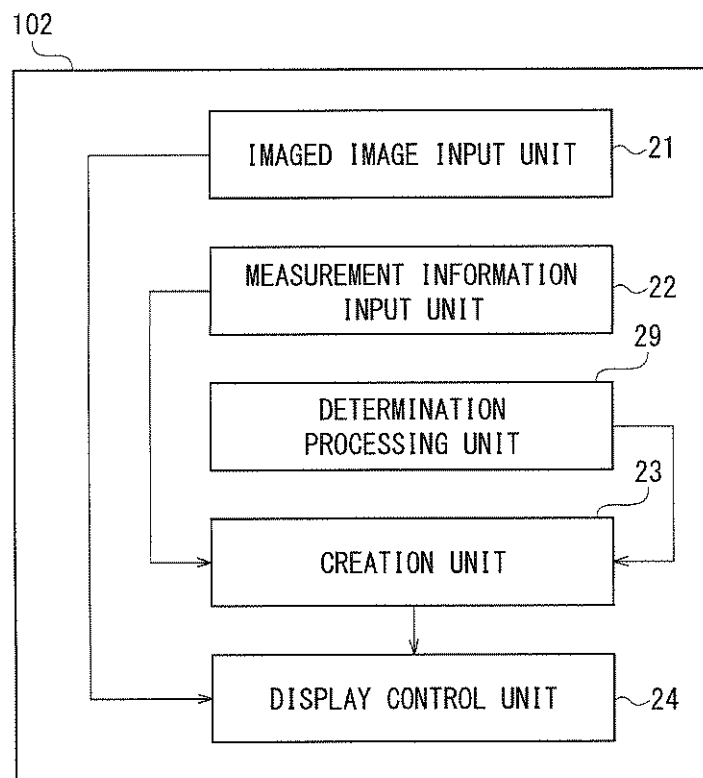


FIG.24

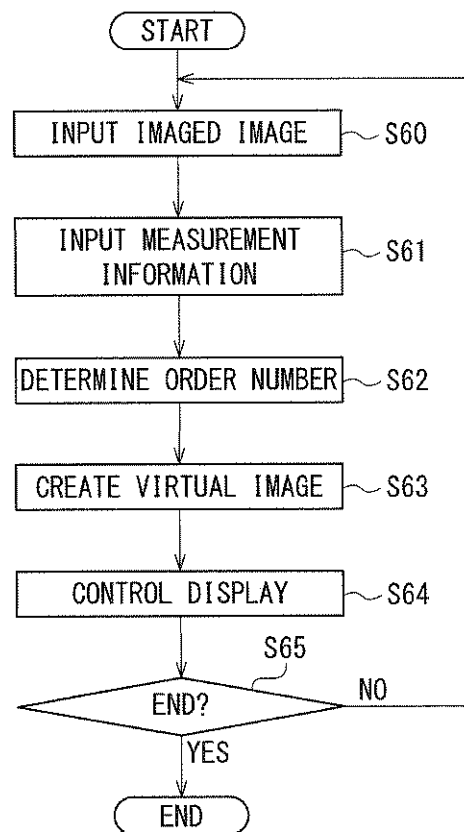


FIG.25

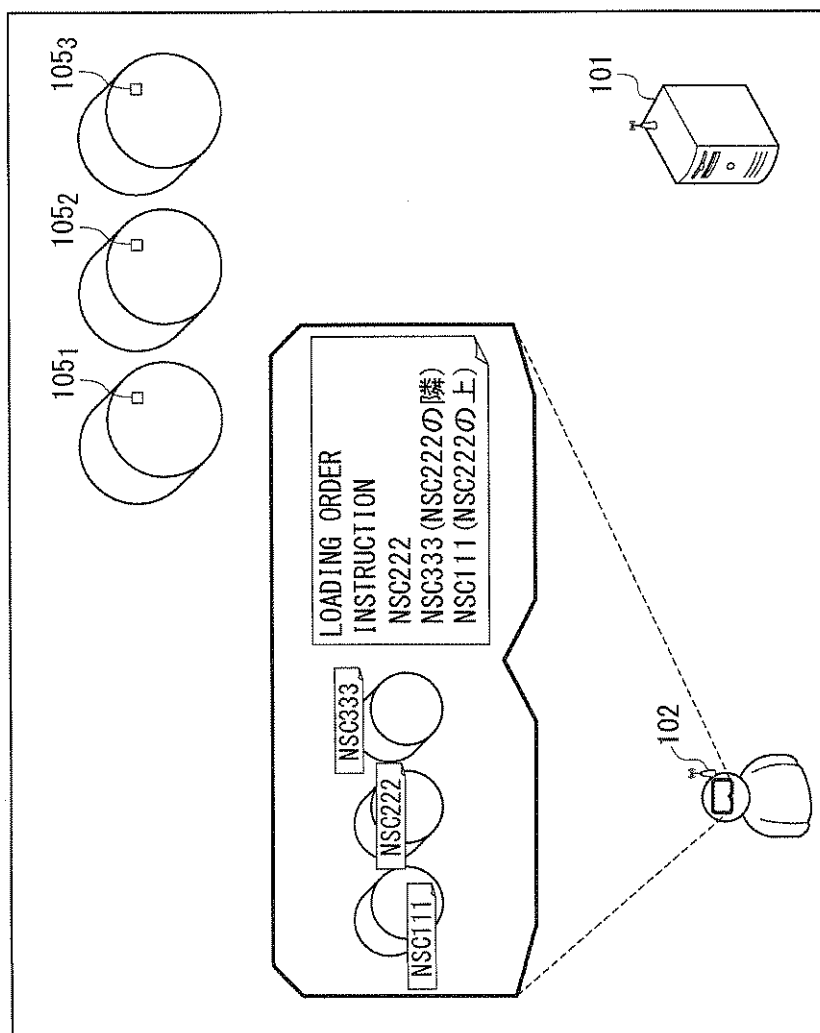


FIG.26

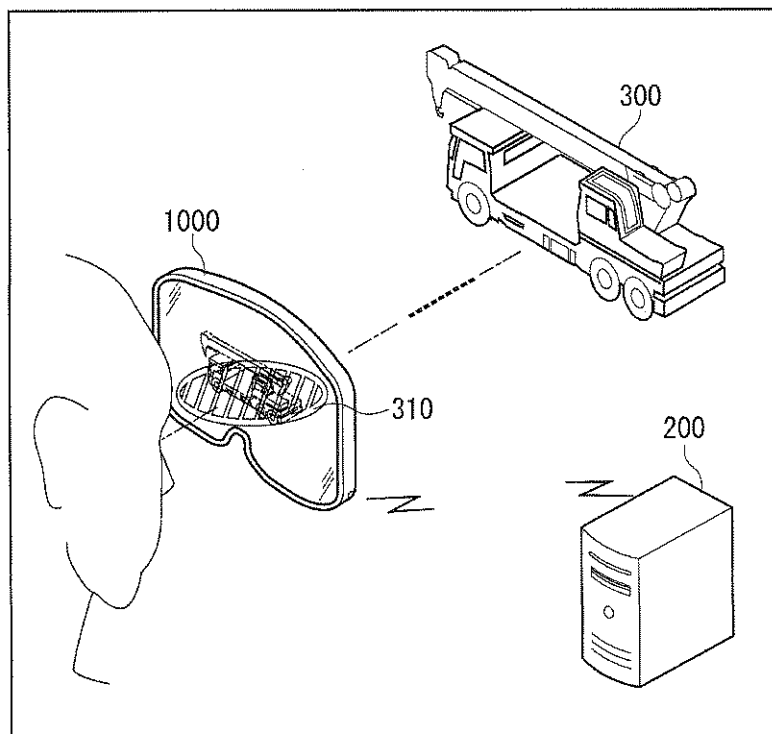


FIG.27

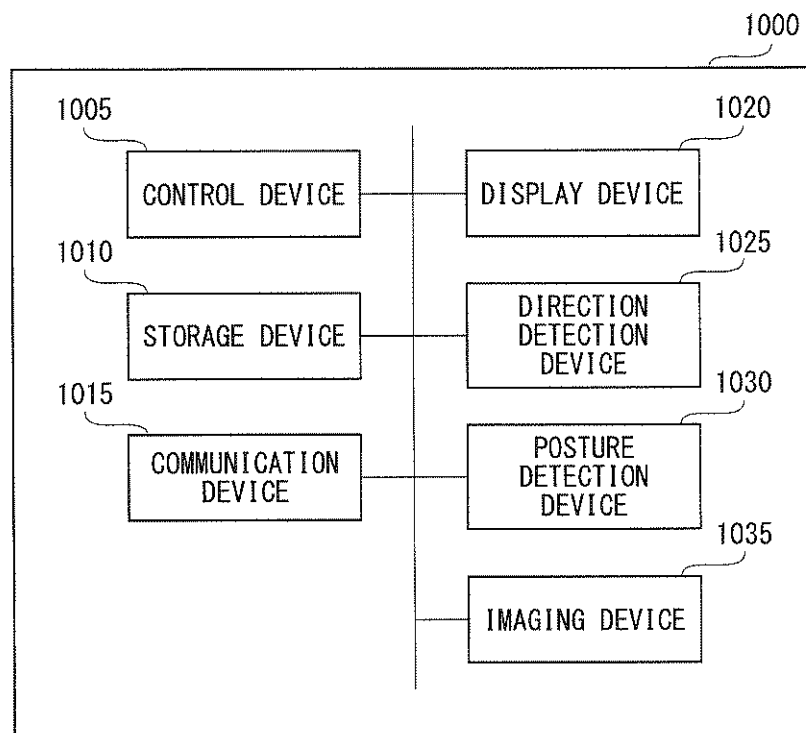


FIG.28

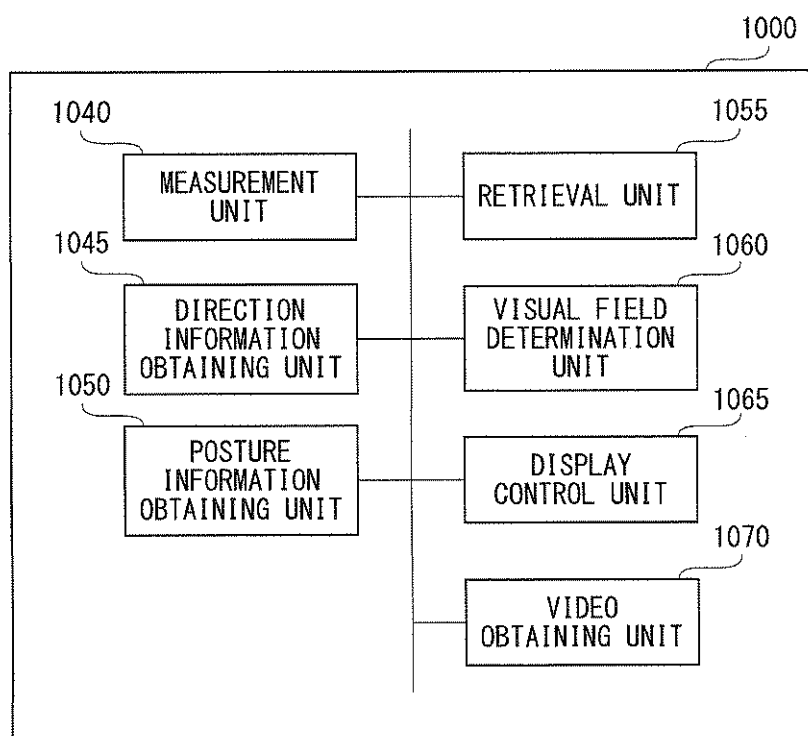


FIG. 29

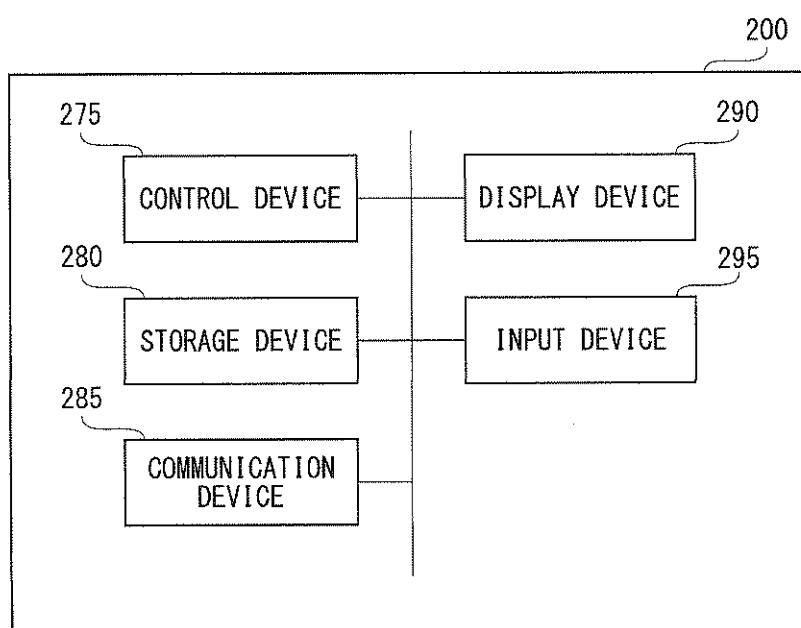


FIG.30

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DANGEROUS OBJECT ID	DANGEROUS OBJECT NAME	TYPE OF DANGER	REFERENCE POSITION (LATITUDE, LONGITUDE)	STATE	DANGEROUS RANGE OF EACH STATE	CURRENT STATUS
001	CRANE	• FALL OF SUSPENDED OBJECT • CONTACT OF CRANE ARM	35. 354417, 139. 867623	FULLY OPERATING	15 m DIAMETER 20 m HEIGHT	
002	GAS PIPE	• TOXIC GAS LEAKAGE (WITH SMALLER SPECIFIC GRAVITY THAN AIR)	STRAIGHT SECTION FROM 35. 362012, 139. 863589 TO 35. 360787, 139. 867451	ONLY EAST SIDE IS OPERATING	15 m DIAMETER 20 m HEIGHT 0° ~ 180°	○
003	LATHE	• FLYING MATTER	35. 355467, 139. 883459	9:00-17:00	5 m HORIZONTALLY FROM GAS PIPE ∞ ON VERTICALLY UPPER SIDE	○
...	...	...	...	WHEN OPERATING	5 m DIAMETER	
...	...	...	...	...	...	...
...	...	...	...	...	...	...

FIG.31

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dangerous object id	dangerous object name	type of danger	positioning reference	state	dangerous range of each state	current status	current position (latitude, longitude)
010	AGV	•CONTACT IN MOVING ROUTE	MARKER : NO10	MOVING STOPPED	2 m DIAMETERFROM MARKER —	 ○	35. 355187, 139. 874618
011	CRANE TRUCK	•FALL OF SUSPENDED OBJECT •CONTACT OF CRANE ARM	FOUR CORNERS OF VEHICLE BODY ARM FULCRUM	MOVING ARM OPERATING	2 m FROM VEHICLE BODY 10 m FROM ARM FULCRUM 7 m FROM GROUND SURFACE	 ○	35. 360752, 139. 877622
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...

FIG.32

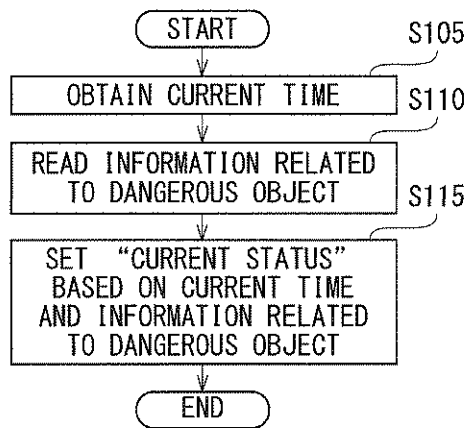


FIG.33

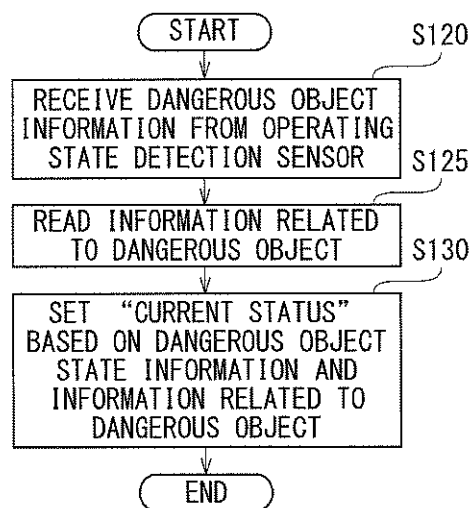


FIG.34

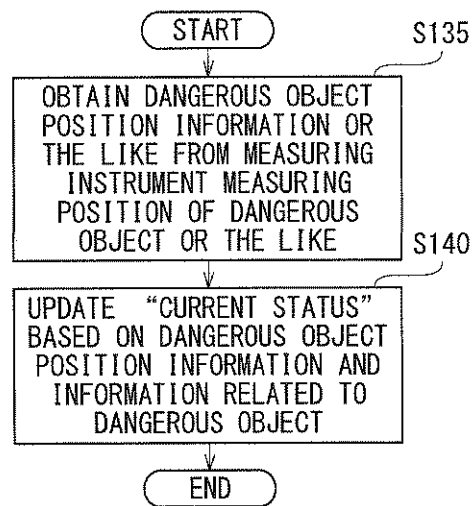


FIG.35

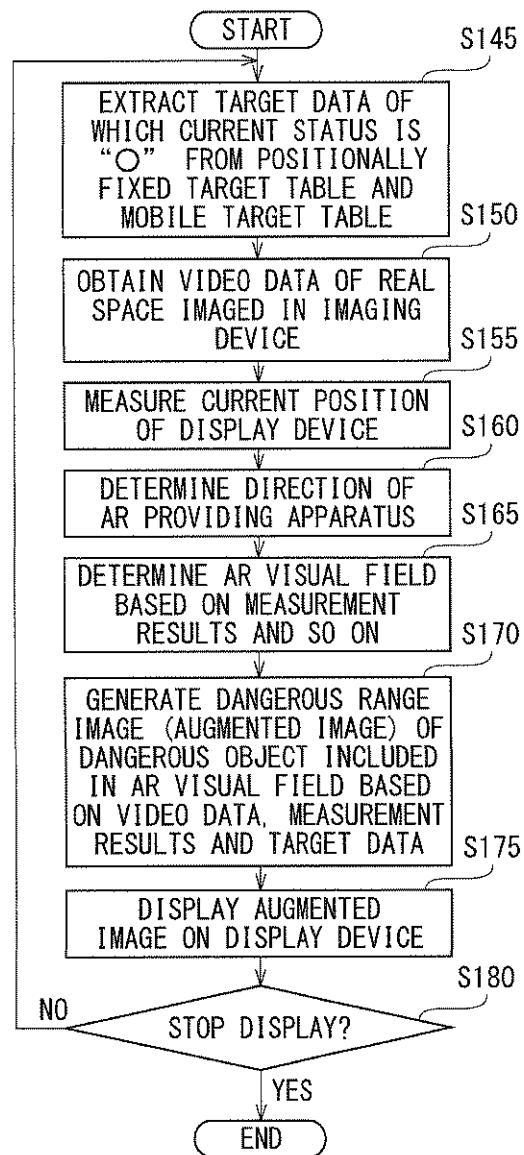


FIG.36

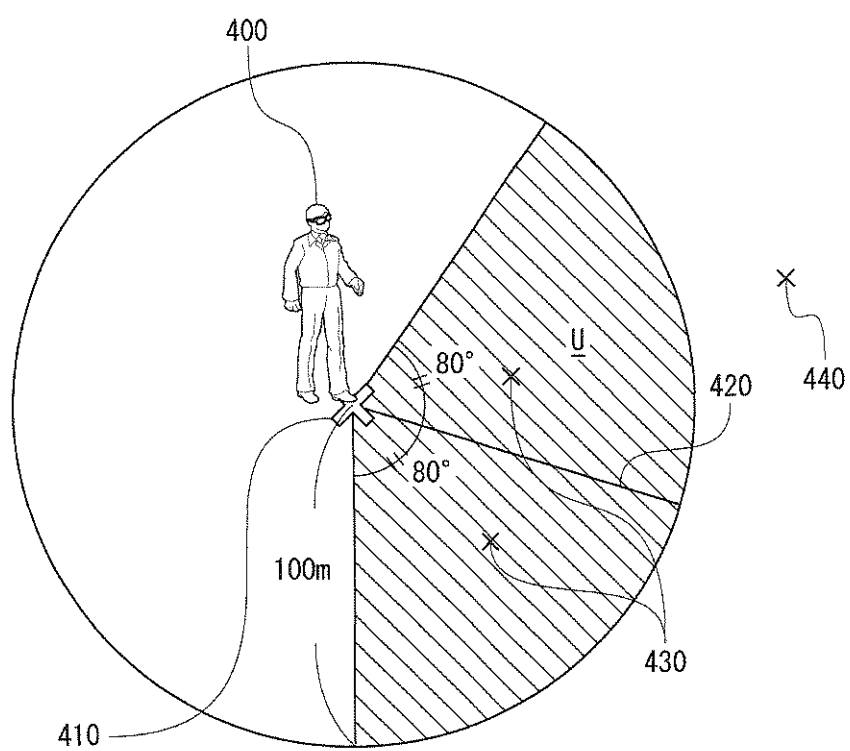


FIG.37A

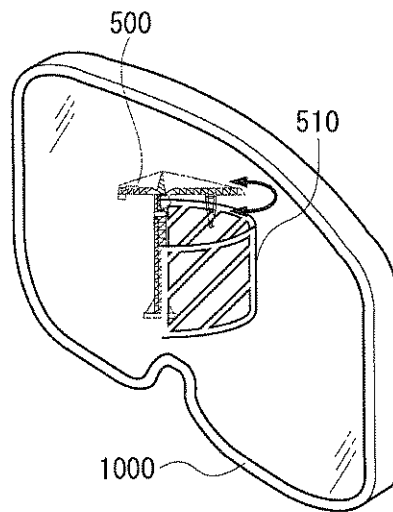


FIG. 37B

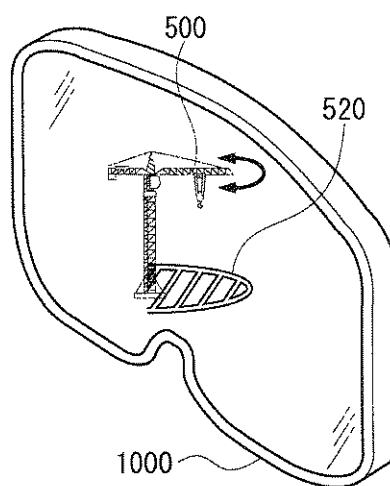


FIG.37C

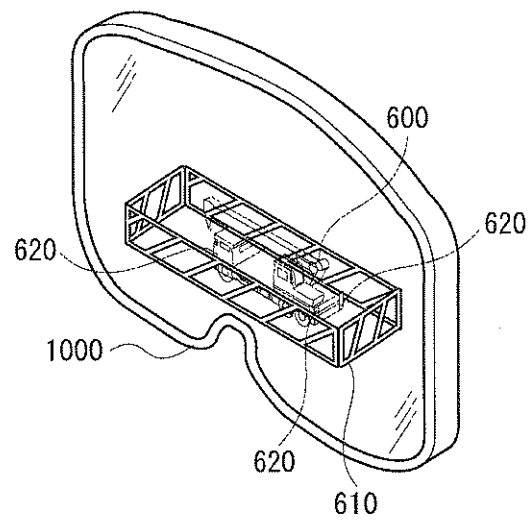


FIG.37D

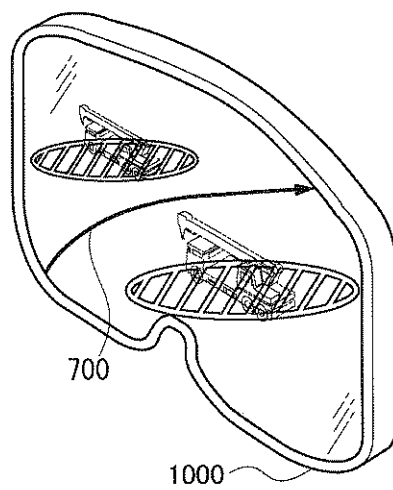


FIG.38

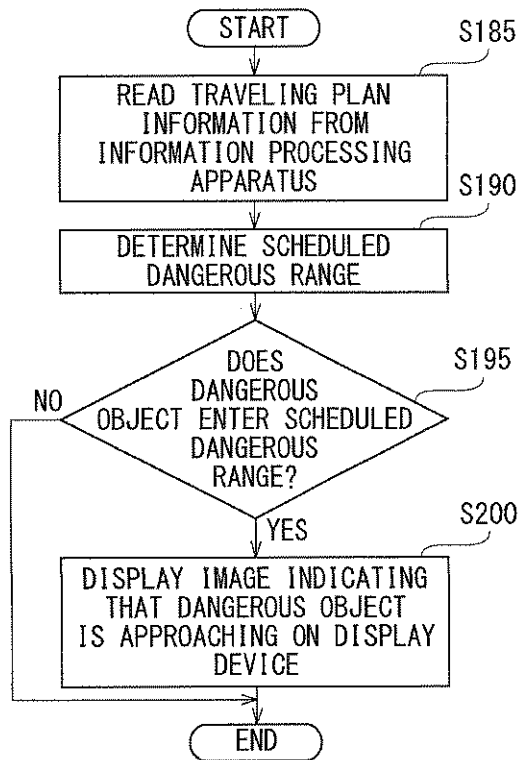


FIG.39

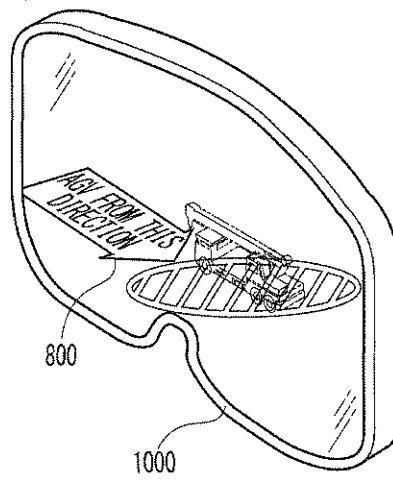


FIG.40

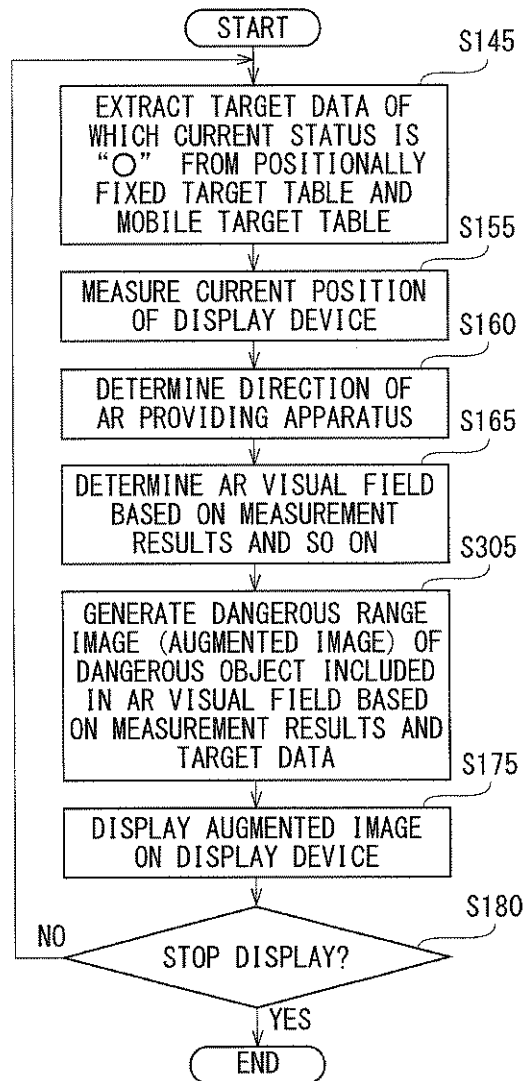


FIG.41

910

dangerous object id	dangerous object name	type of danger	reference position (latitude, longitude)	state	dangerous range of each state	current status	display condition
001	crane	-fall of suspended object -contact of crane arm	35. 354417, 139. 867623	fully operating	15 m diameter 20 m height		within 30 m
				only east side is operating	15 m diameter 20 m height 0° ~180°	○	within 30 m
002	gas pipe	-toxic gas leakage (with smaller specific gravity than air)	straight section from 35. 362012, 139. 863589 to 35. 360787, 139. 867451	9:00-17:00	5 m horizontally from gas pipe ∞ on vertically upper side	○	within 50 m
003	lathe	-flying matter	35. 355467, 139. 883459	when operating	5 m diameter		within 10 m
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...

FIG.42

