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FIG.1

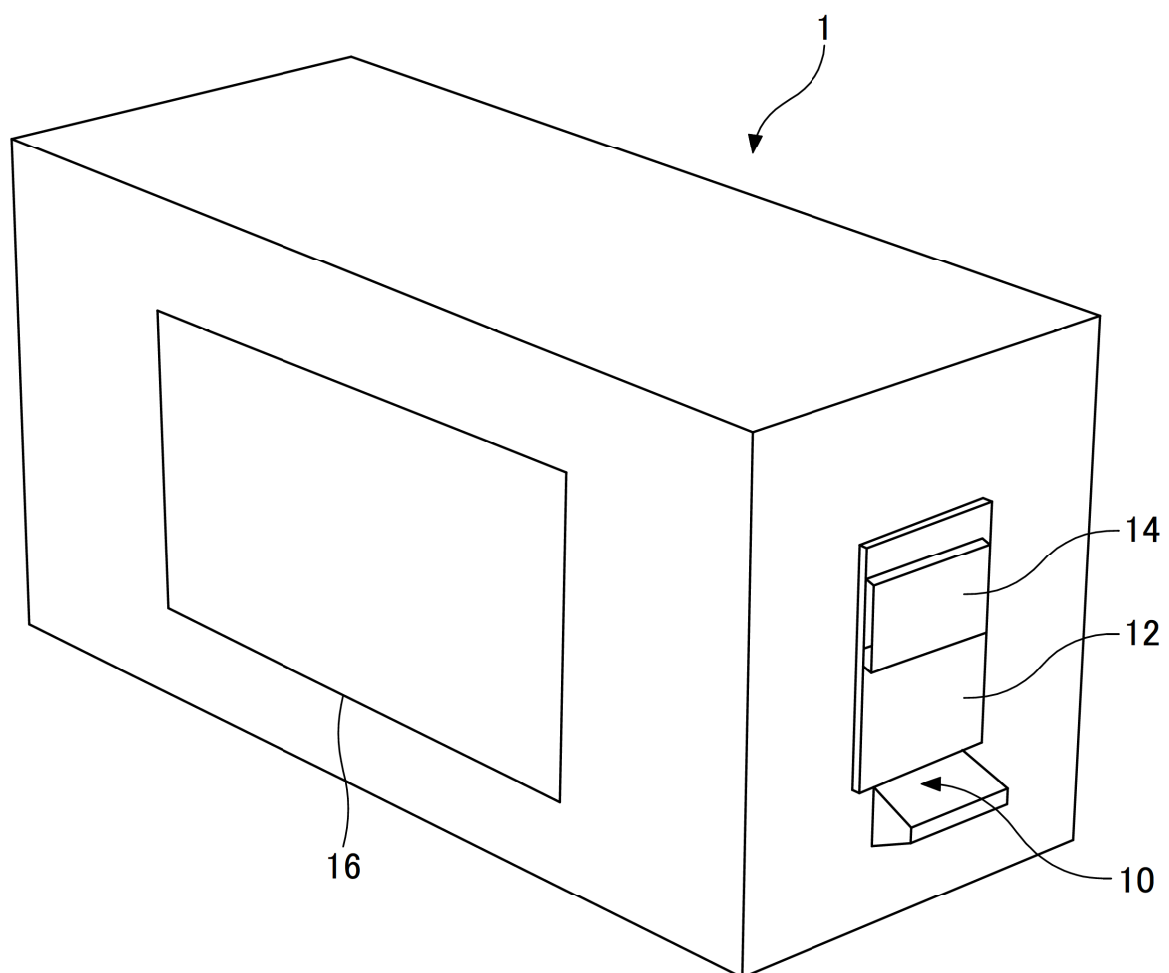


FIG. 2A

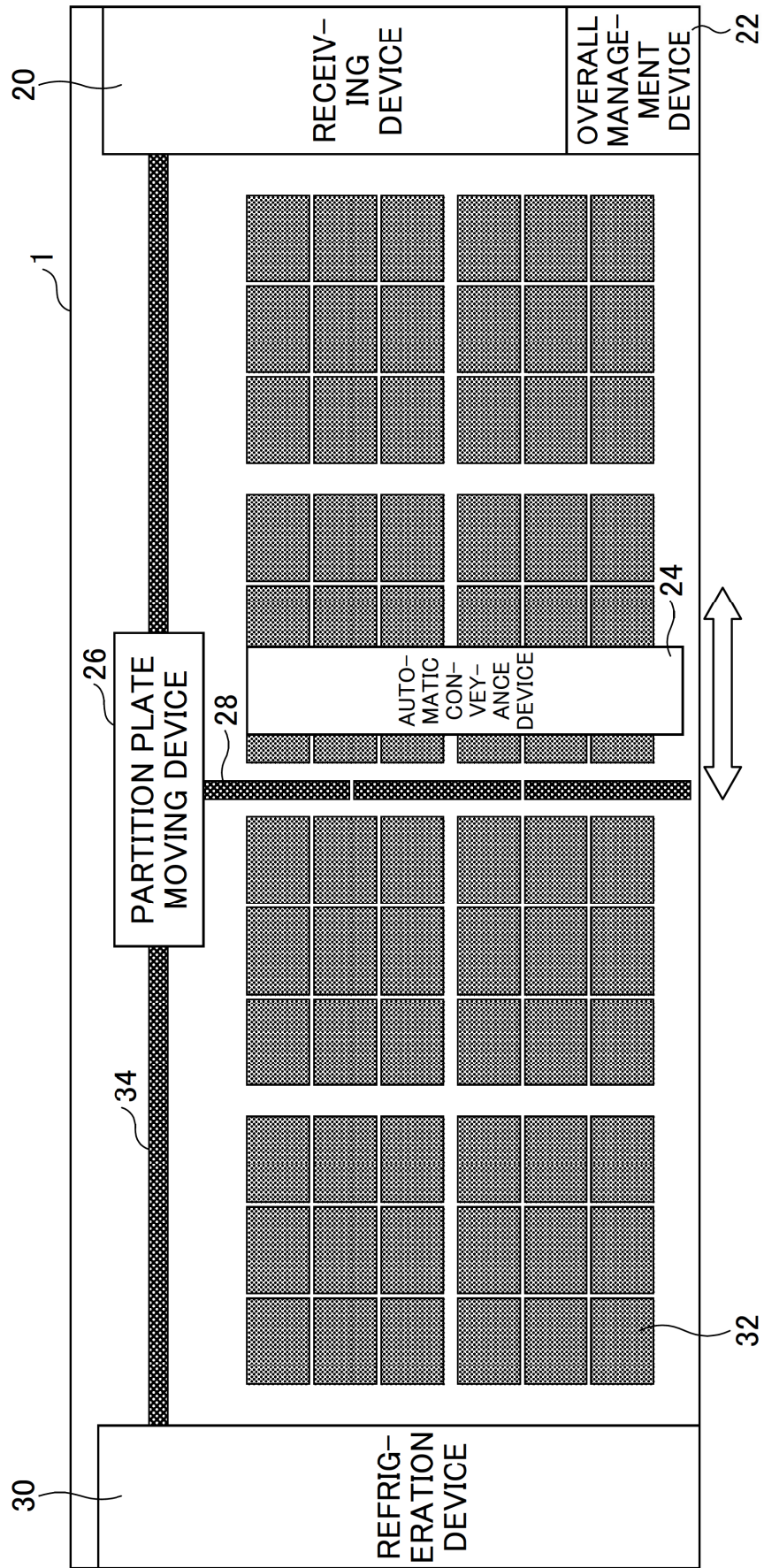


FIG.2B

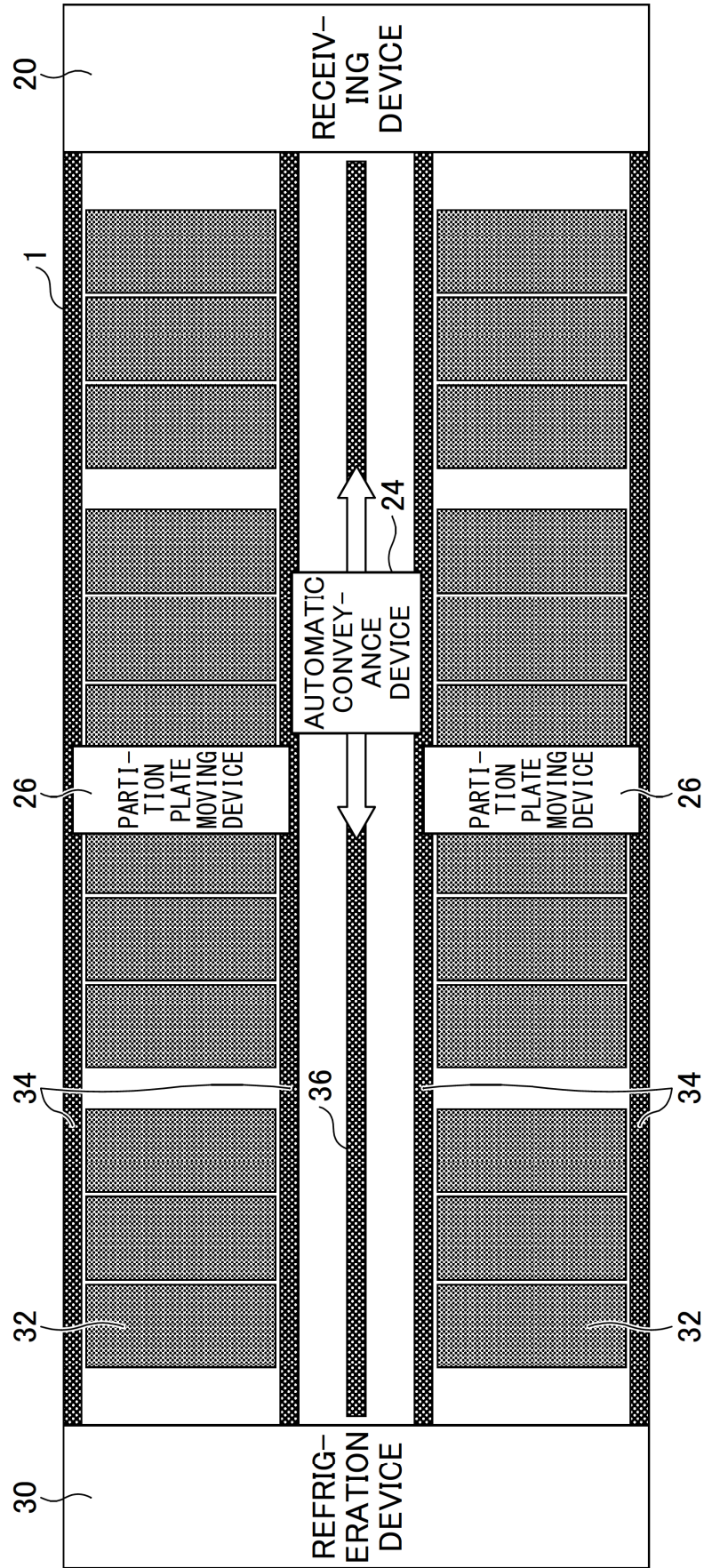


FIG.3

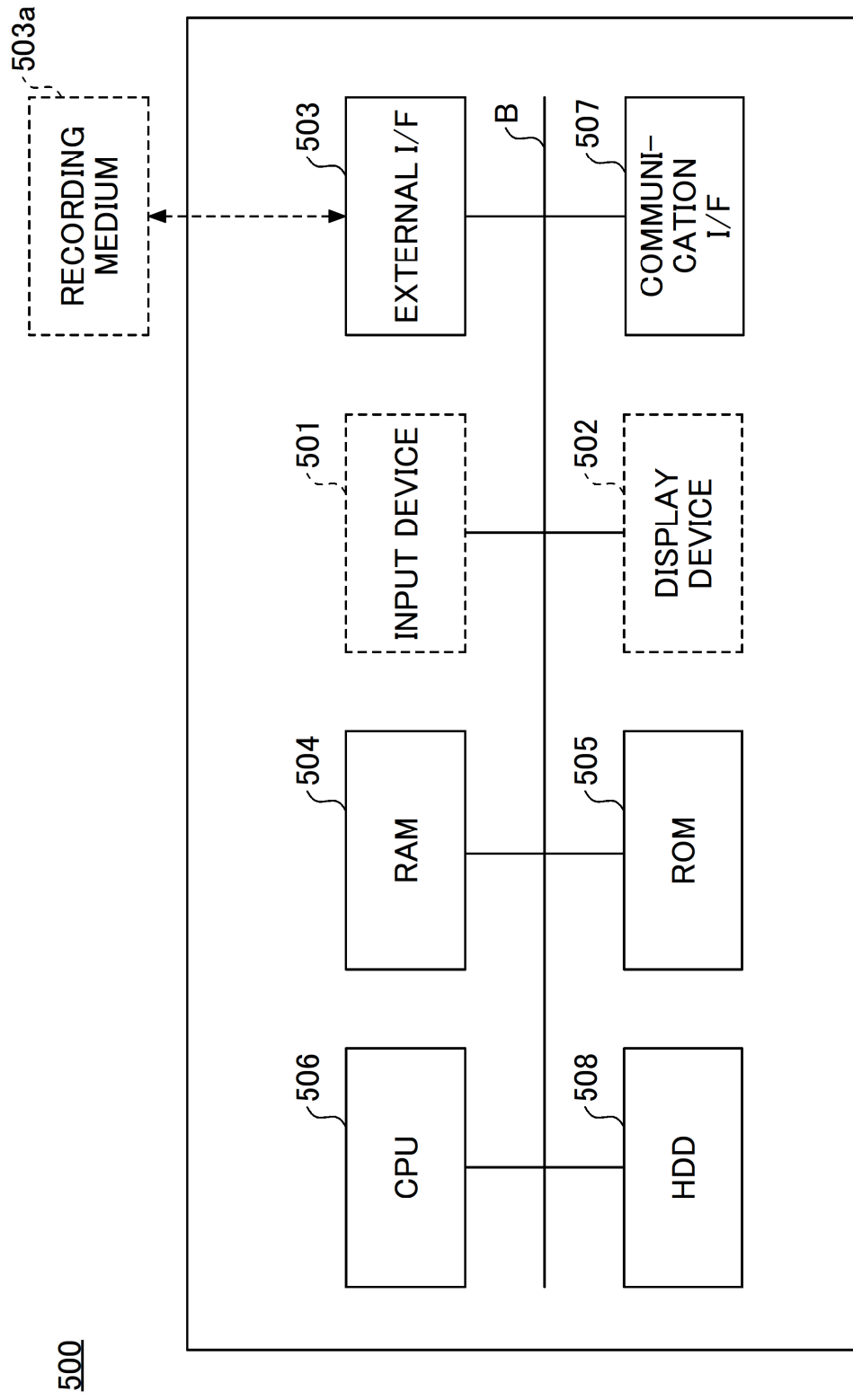


FIG.4

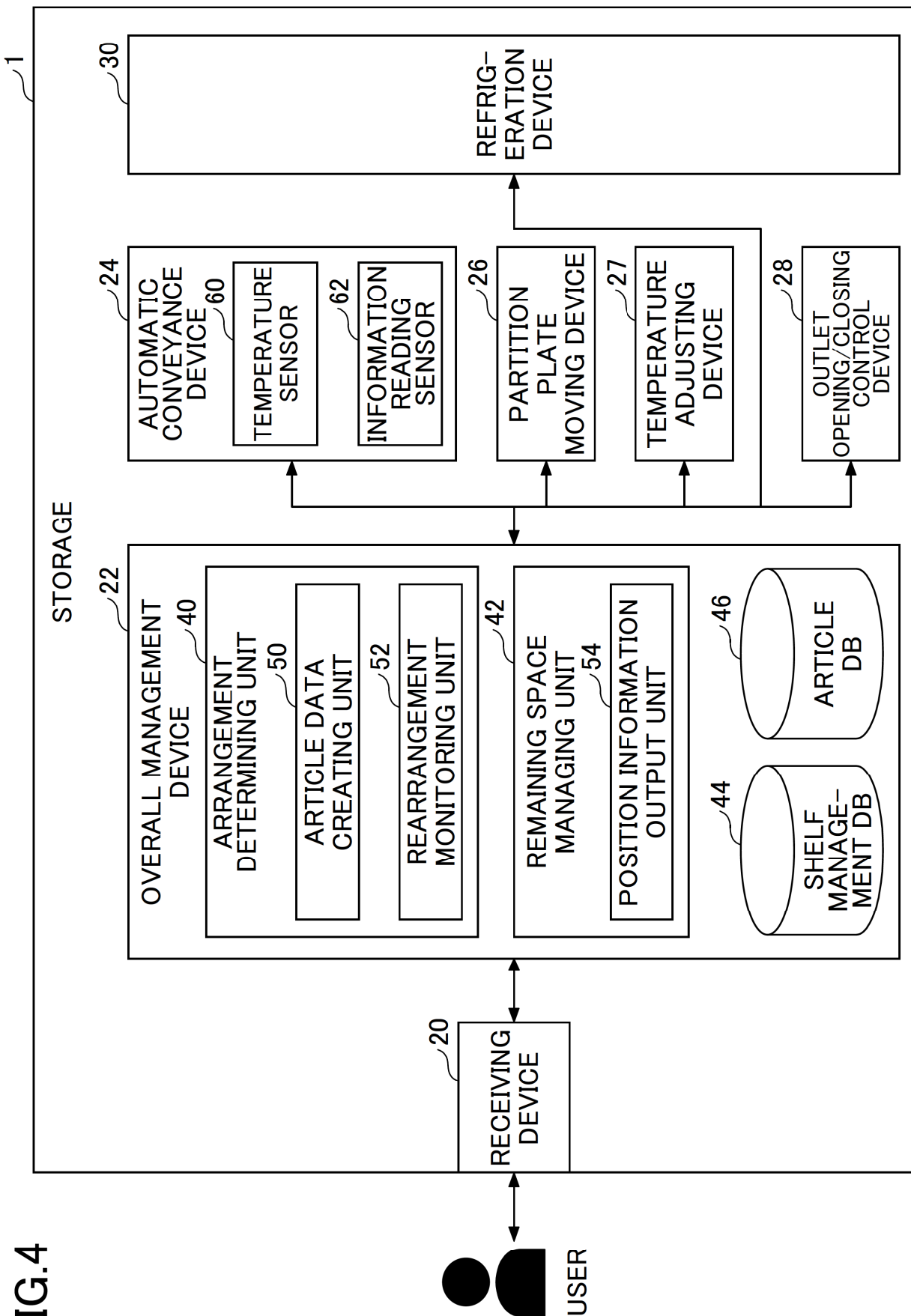


FIG.5

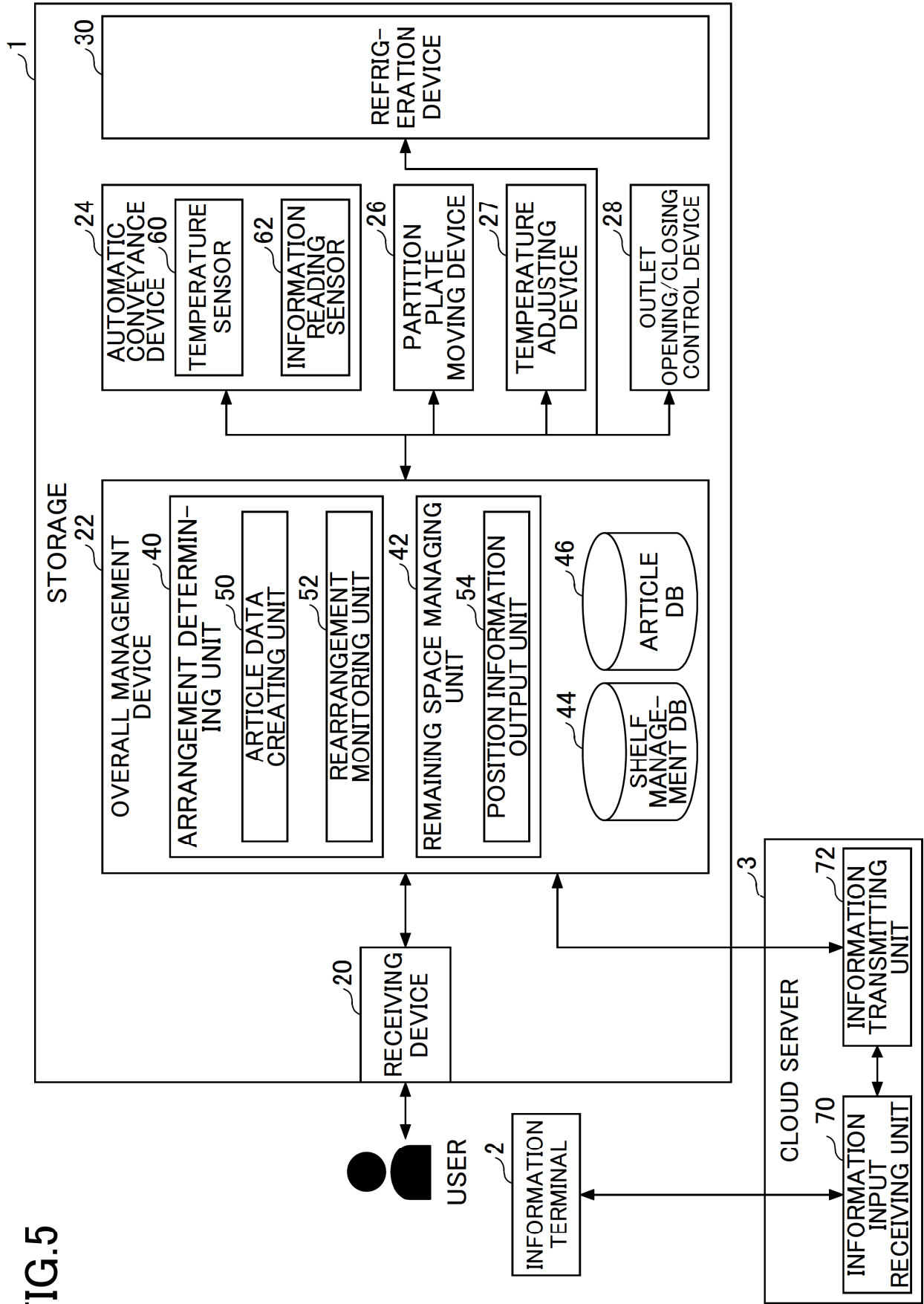


FIG.6

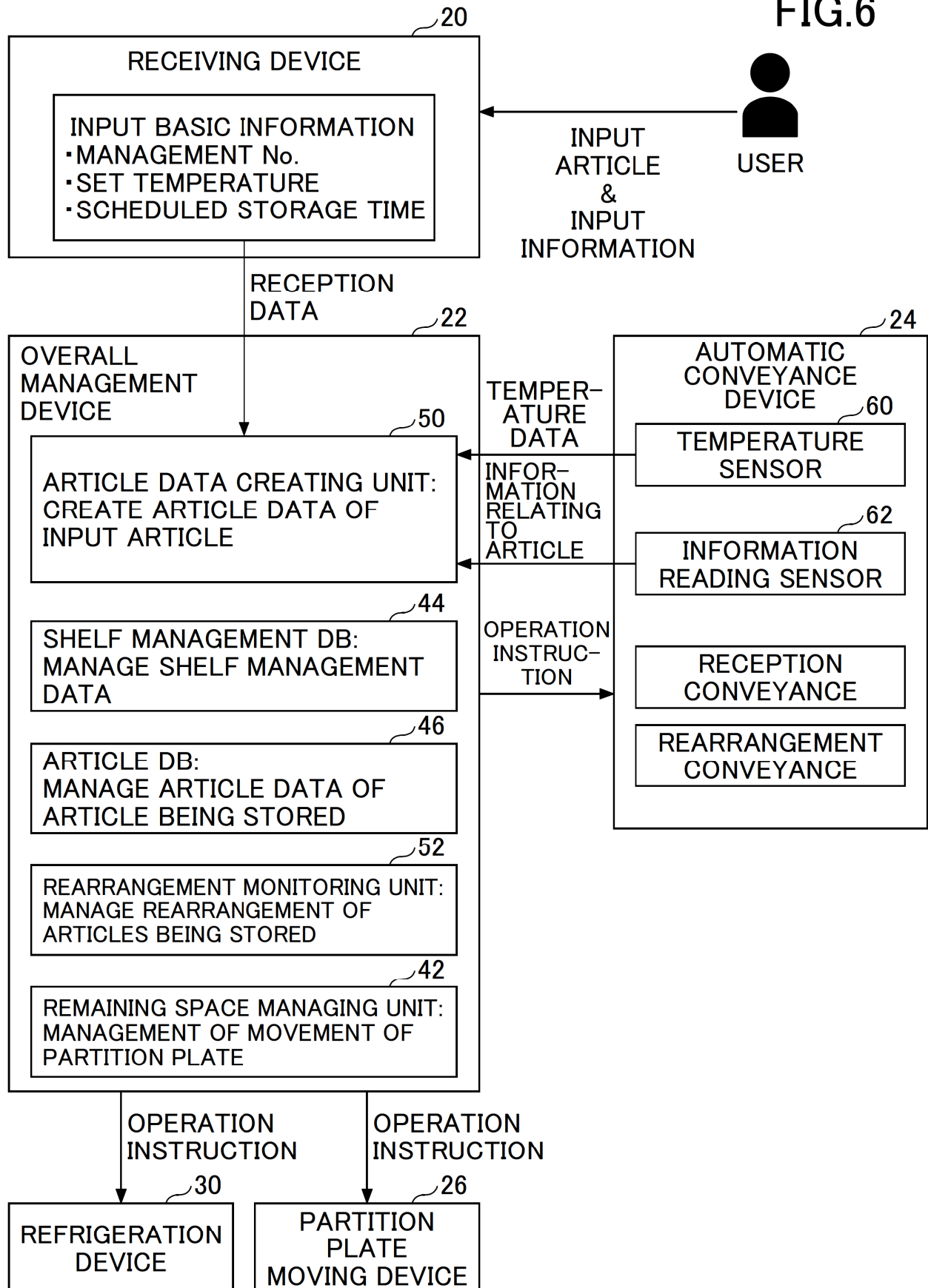


FIG.7

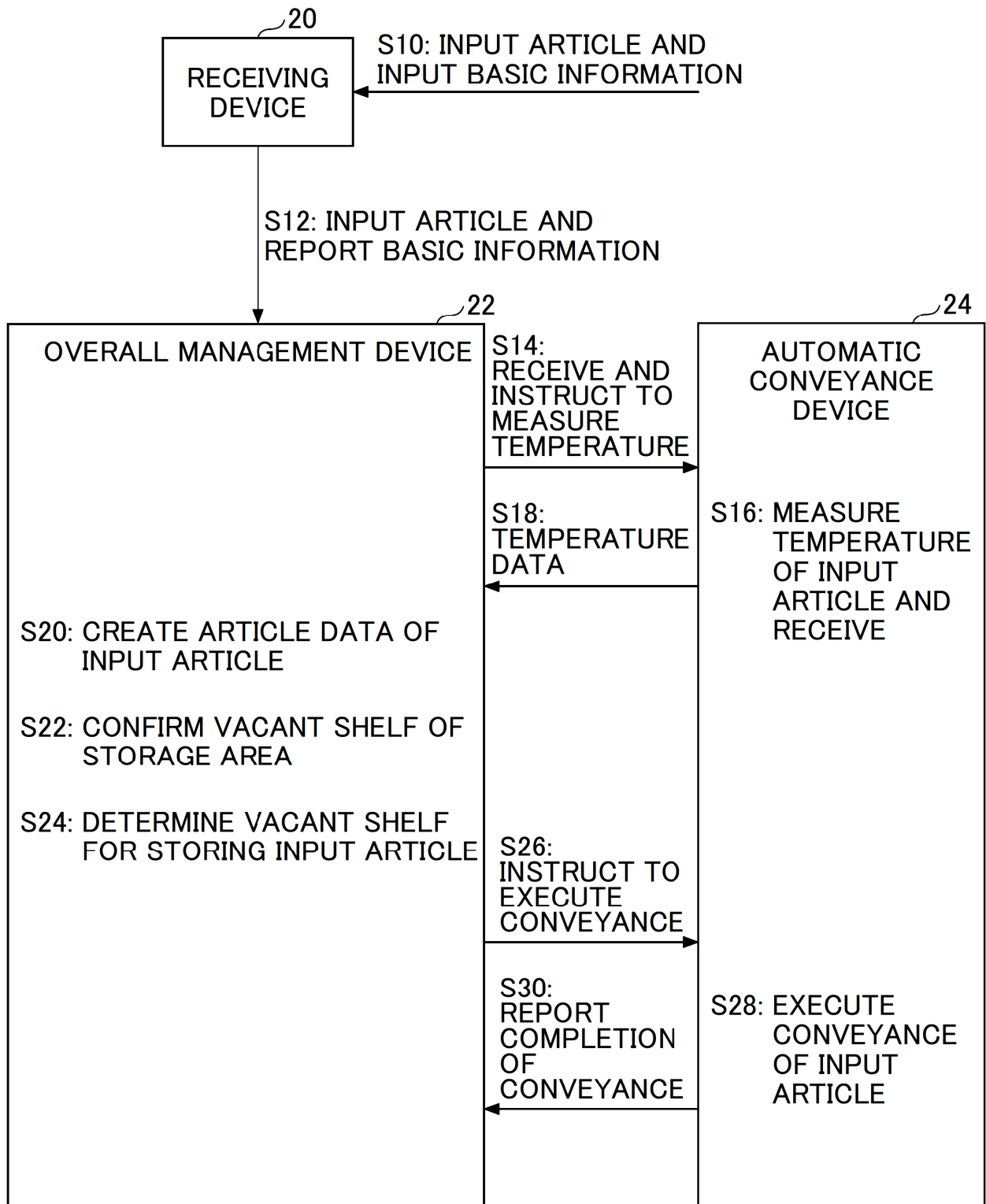


FIG.8A

MANAGEMENT DATA				CURRENT POSITION MANAGEMENT		REARRANGEMENT MANAGEMENT	
MANAGEMENT No.	SET TEMPERATURE	SCHEDULED STORAGE PERIOD	FINAL SCHEDULED STORAGE POSITION	TEMPERATURE MANAGEMENT GRADE	SHELF ADDRESS No.	CURRENT POSITION SCHEDULED STORAGE TIME	CUMULATIVE ELAPSED TIME
XXXXXXXXXXXX	5°C	72 hr	A	C	-	5 hr	0 hr

FIG.8B

SHELF ADDRESS No.	SET TEMPERATURE	TEMPERATURE MANAGEMENT GRADE	STATE
XXXX	-18°C	A	IN USE
XXXX	-18°C	A	INPUT RESERVED
XXXX	-18°C	A	VACANT
XXXX	+5°C	A	IN USE
XXXX	+5°C	B	VACANT
XXXX	+5°C	C	VACANT → IN USE

FIG.8C

MANAGEMENT DATA				CURRENT POSITION MANAGEMENT		REARRANGEMENT MANAGEMENT	
MANAGEMENT No.	SET TEMPERATURE	SCHEDULED STORAGE PERIOD	FINAL SCHEDULED STORAGE POSITION	TEMPERATURE MANAGEMENT GRADE	SHELF ADDRESS No.	CURRENT POSITION SCHEDULED STORAGE TIME	CUMULATIVE ELAPSED TIME
XXXXXXXXXXXX	5°C	6 hr	B	C	XXXX	2 hr	1 hr
XXXXXXXXXXXX	5°C	24 hr	A	C	XXXX	2 hr	1 hr
XXXXXXXXXXXX	5°C	72 hr	A	A	XXXX	∞ hr	24 hr
XXXXXXXXXXXX	5°C	6 hr	B	B	XXXX	∞ hr	6 hr
XXXXXXXXXXXX	5°C	72 hr	A	C	XXXX	5 hr	0 hr
XXXXXXXXXXXX	-18°C	24 hr	A	-	XXXX RESERVED	-	-

FIG.9A

MANAGEMENT DATA				CURRENT POSITION MANAGEMENT		REARRANGEMENT MANAGEMENT	
MANAGEMENT No.	SET TEMPERATURE	SCHEDULED STORAGE PERIOD	FINAL SCHEDULED STORAGE POSITION	TEMPERATURE MANAGEMENT GRADE	SHELF ADDRESS No.	CURRENT POSITION SCHEDULED STORAGE TIME	CUMULATIVE ELAPSED TIME
XXXXXXXXXXXX	5°C	72 hr	A	QUENCH	-	2 hr	0 hr

FIG.9B

SHELF ADDRESS No.	SET TEMPERATURE	TEMPERATURE MANAGEMENT GRADE	STATE
XXXX	0°C	QUENCH	IN USE
XXXX	0°C	QUENCH	IN USE
XXXX	0°C	QUENCH	VACANT → IN USE
XXXX	+5°C	A	IN USE
XXXX	+5°C	B	VACANT
XXXX	+5°C	C	VACANT

FIG.9C

MANAGEMENT DATA				CURRENT POSITION MANAGEMENT		REARRANGEMENT MANAGEMENT	
MANAGEMENT No.	SET TEMPERATURE	SCHEDULED STORAGE PERIOD	FINAL SCHEDULED STORAGE POSITION	TEMPERATURE MANAGEMENT GRADE	SHELF ADDRESS No.	CURRENT POSITION SCHEDULED STORAGE TIME	CUMULATIVE ELAPSED TIME
XXXXXXXXXXXX	5°C	6 hr	B	C	XXXX	2 hr	1 hr
XXXXXXXXXXXX	5°C	24 hr	A	C	XXXX	2 hr	1 hr
XXXXXXXXXXXX	5°C	72 hr	A	A	XXXX	∞ hr	24 hr
XXXXXXXXXXXX	5°C	6 hr	B	B	XXXX	∞ hr	6 hr
XXXXXXXXXXXX	5°C	72 hr	A	QUENCH	XXXX	2 hr	0 hr
XXXXXXXXXXXX	-18°C	24 hr	A	-	XXXX RESERVED	-	-

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FIG.10

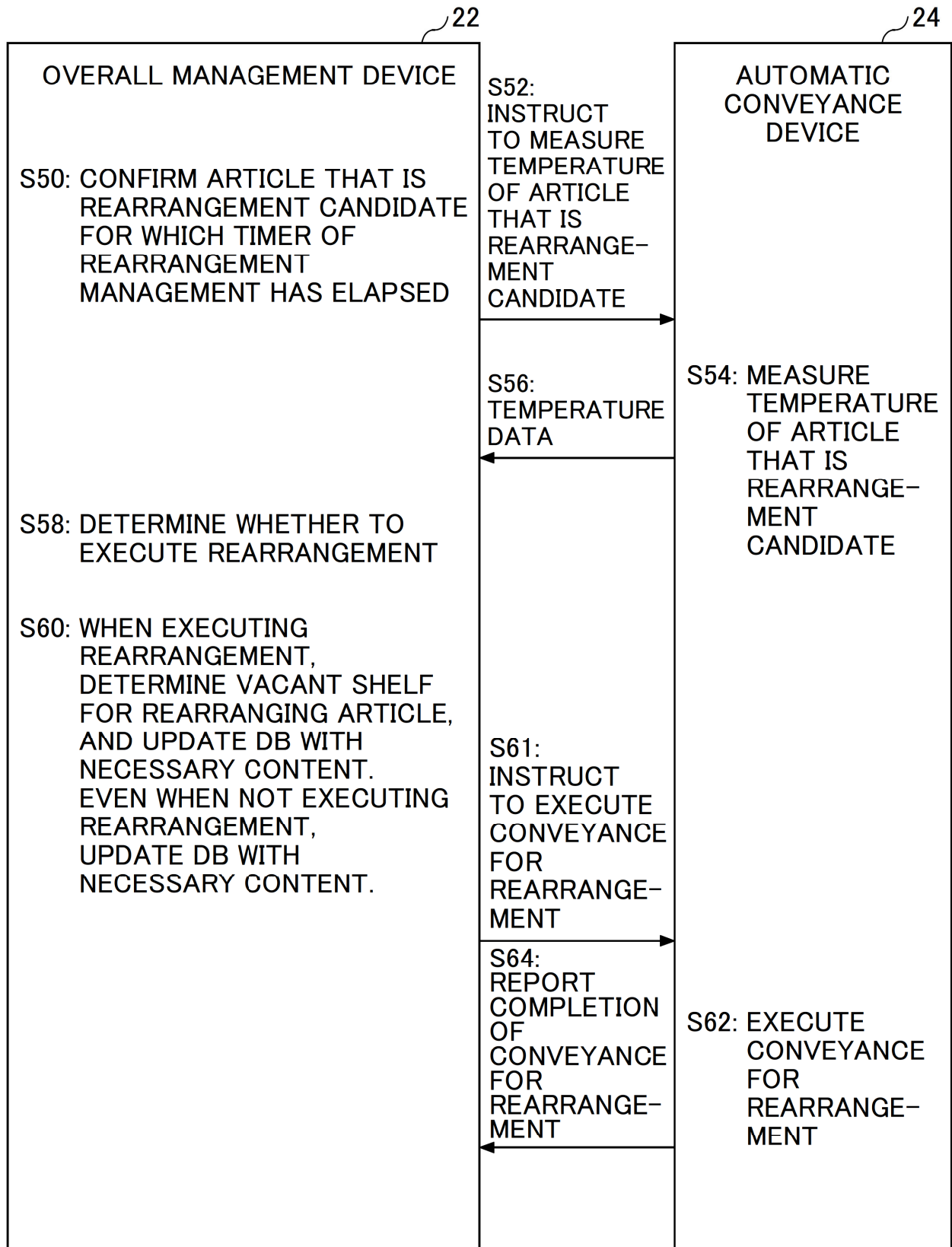


FIG.11A

MANAGEMENT DATA				CURRENT POSITION MANAGEMENT		REARRANGEMENT MANAGEMENT	
MANAGEMENT No.	SET TEMPERATURE	SCHEDULED STORAGE PERIOD	FINAL SCHEDULED STORAGE POSITION	TEMPERATURE MANAGEMENT GRADE	SHELF ADDRESS No.	CURRENT POSITION SCHEDULED STORAGE TIME	CUMULATIVE ELAPSED TIME
XXXXXXXXXXXXXX	5°C	6 hr	B	C	XXXX	2 hr	1 hr
XXXXXXXXXXXXXX	5°C	24 hr	A	C	XXXX	2 hr	1 hr
XXXXXXXXXXXXXX	5°C	72 hr	A	A	XXXX	∞ hr	24 hr
XXXXXXXXXXXXXX	5°C	6 hr	B	B	XXXX	∞ hr	6 hr
XXXXXXXXXXXXXX	5°C	72 hr	A	C	XXXX	5 hr	5 hr
XXXXXXXXXXXXXX	-18°C	24 hr	A	-	XXXX RESERVED	-	-

FIG.11B

MANAGEMENT DATA					CURRENT POSITION MANAGEMENT		REARRANGEMENT MANAGEMENT	
MANAGEMENT No.	SET TEMPERATURE	SCHEDULED STORAGE PERIOD	FINAL SCHEDULED STORAGE POSITION	TEMPERATURE MANAGEMENT GRADE	SHELF ADDRESS No.	CURRENT POSITION SCHEDULED STORAGE TIME	CUMULATIVE ELAPSED TIME	
XXXXXXXXXXXX	5°C	72 hr	A	B	-	2 hr	0 hr	

FIG.11C

SHELF ADDRESS No.	SET TEMPERATURE	TEMPERATURE MANAGEMENT GRADE	STATE
XXXX	-18°C	A	IN USE
XXXX	-18°C	A	INPUT RESERVED
XXXX	-18°C	A	VACANT
XXXX	+5°C	A	IN USE
XXXX	+5°C	B	VACANT → IN USE
XXXX	+5°C	C	IN USE → VACANT

FIG. 12A

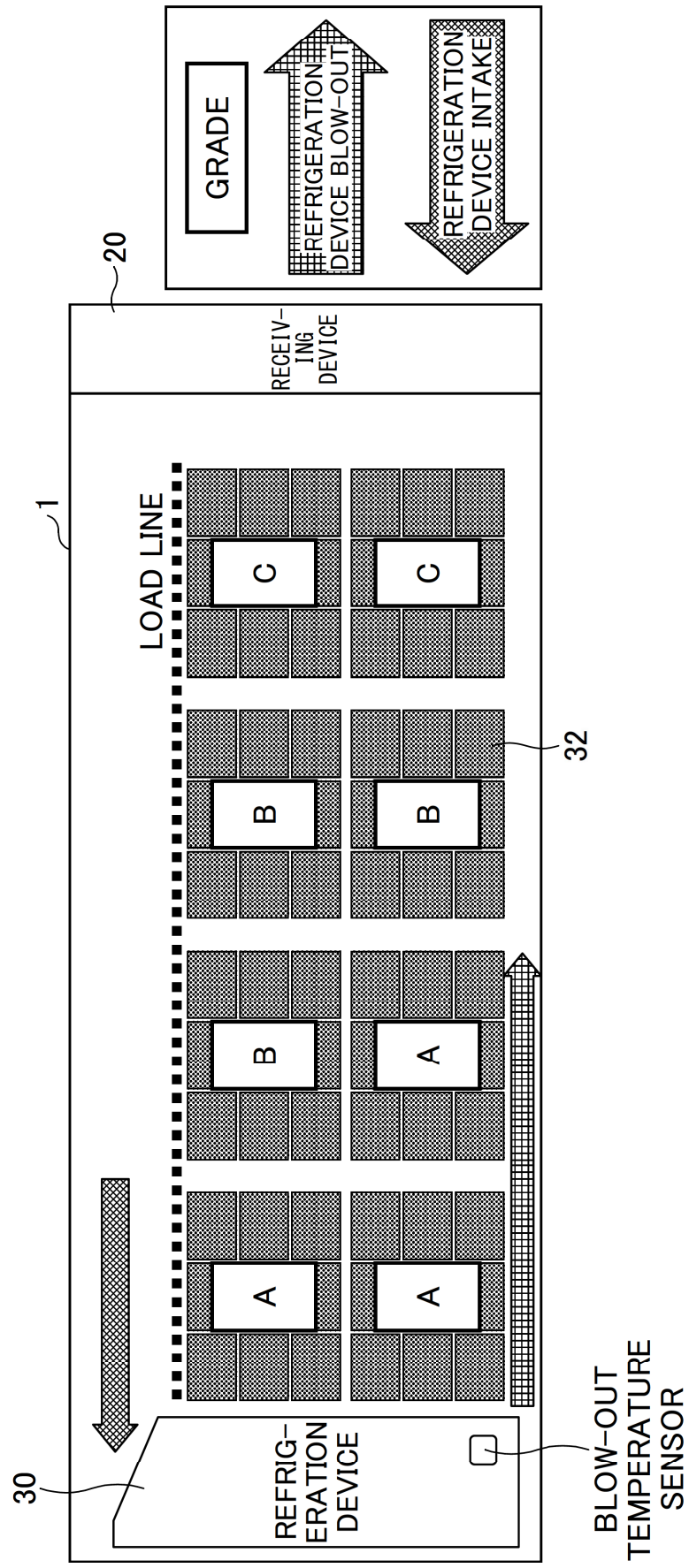


FIG.12B

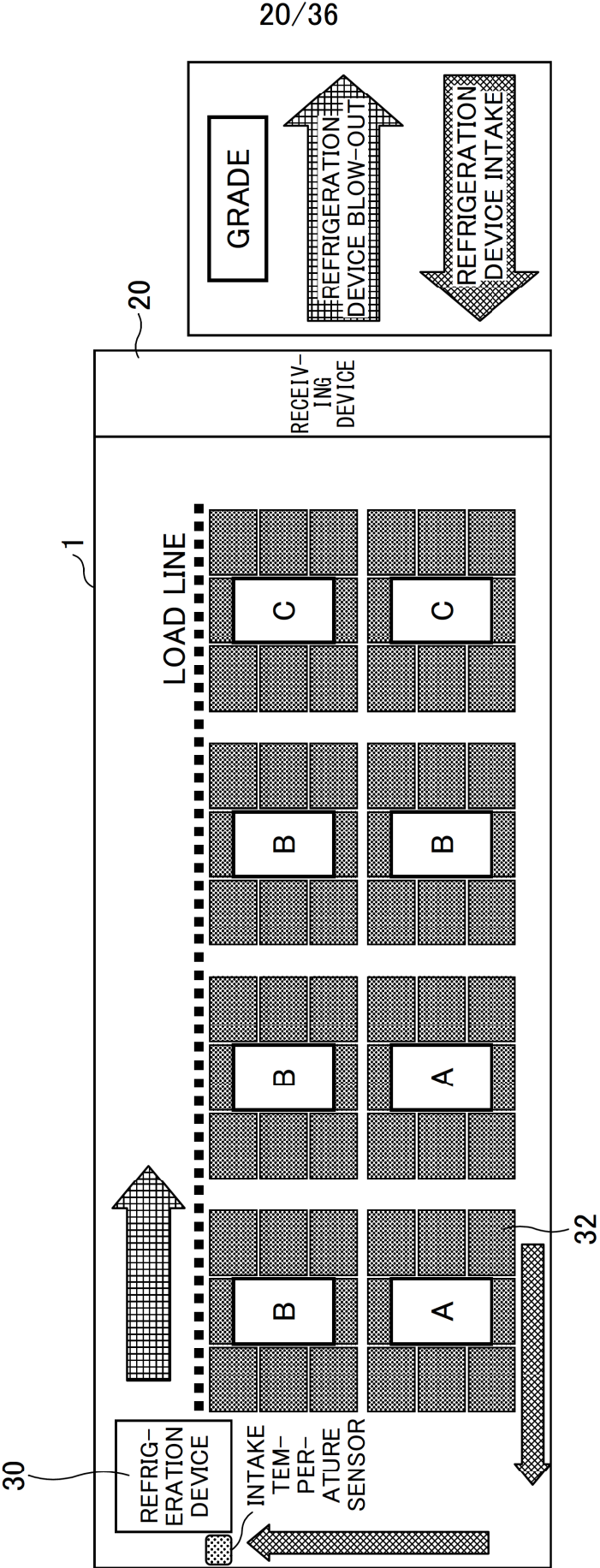


FIG.13

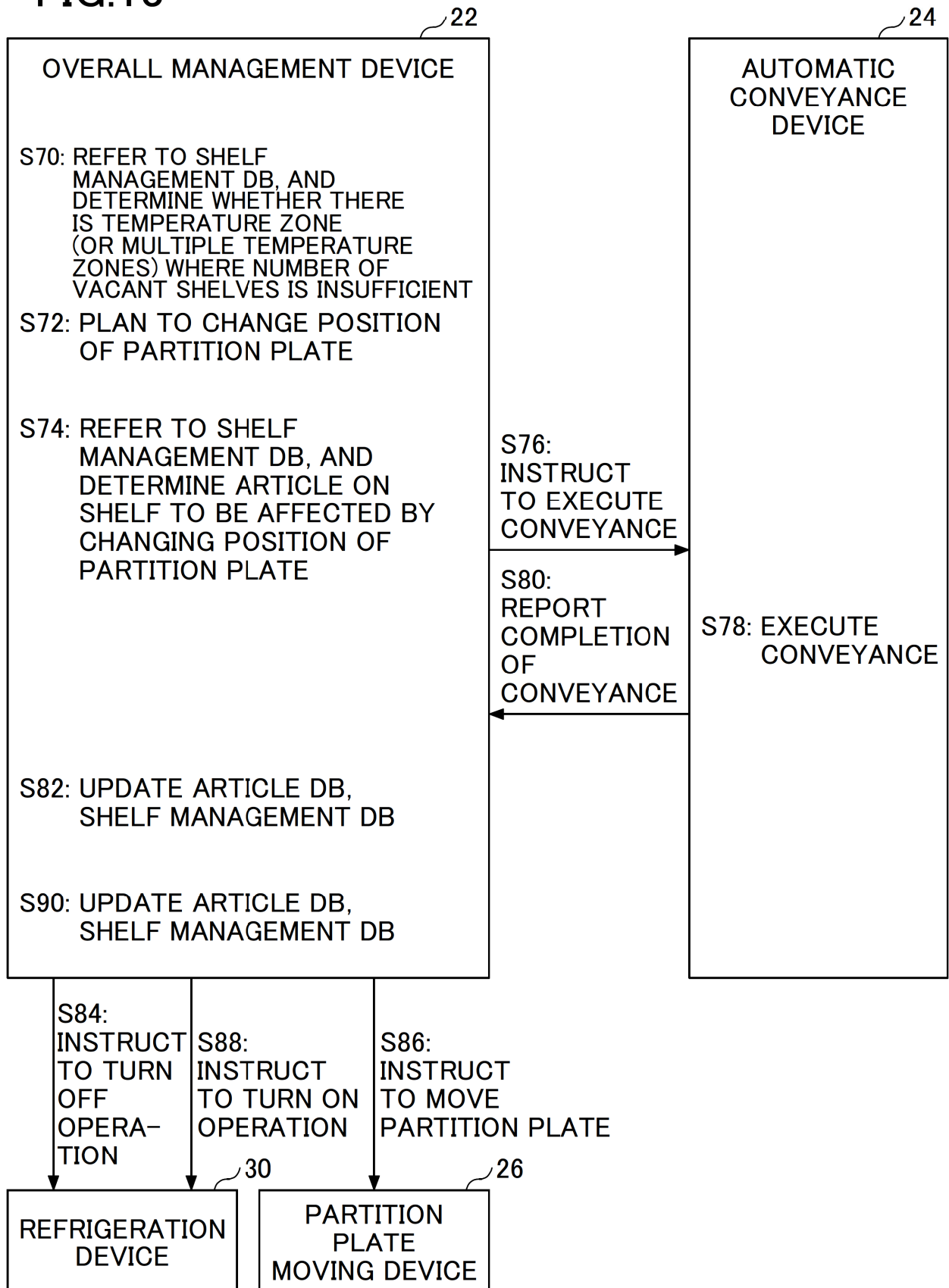


FIG.14A

SHELF ADDRESS No.	PARTITION SECTION	SET TEMPERATURE	TEMPERATURE MANAGEMENT GRADE	STATE
XXXX	I	-18°C	A	IN USE
XXXX	I	-18°C	A	VACANT
XXXX	II	-18°C	B	VACANT
XXXX	II	-18°C	B	IN USE
XXXX	III	-18°C	C	VACANT
XXXX	III	-18°C	C	IN USE
XXXX	IV	+5°C	A	IN USE
.	.	.	.	IN USE
XXXX	VI	+5°C	C	IN USE

FIG.14B

SHELF ADDRESS No.	PARTITION SECTION	SET TEMPERATURE	TEMPERATURE MANAGEMENT GRADE	STATE
XXXX	I	-18°C	A	IN USE
XXXX	I	-18°C	A	VACANT
XXXX	II	-18°C	B	VACANT
XXXX	II	-18°C	B	IN USE
XXXX	III	-18→+5°C	C	VACANT
XXXX	III	-18→+5°C	C	IN USE → MOVE TO SECTION II
XXXX	IV	+5°C	A	IN USE
.	.	.	.	IN USE
XXXX	VI	+5°C	C	IN USE

FIG.14C

PARTITION SECTION	SHELF ADDRESS No.	SET TEMPERATURE	TEMPERATURE MANAGEMENT GRADE	STATE
I	XXXX	-18°C	A	IN USE
I	XXXX	-18°C	A	VACANT
II	XXXX	-18°C	B	IN USE
II	XXXX	-18°C	C	IN USE
III	XXXX	+5°C	C	VACANT
III	XXXX	+5°C	C	VACANT
IV	XXXX	+5°C	A	IN USE
.	.	.	.	IN USE
VI	XXXX	+5°C	C	IN USE

FIG.15A

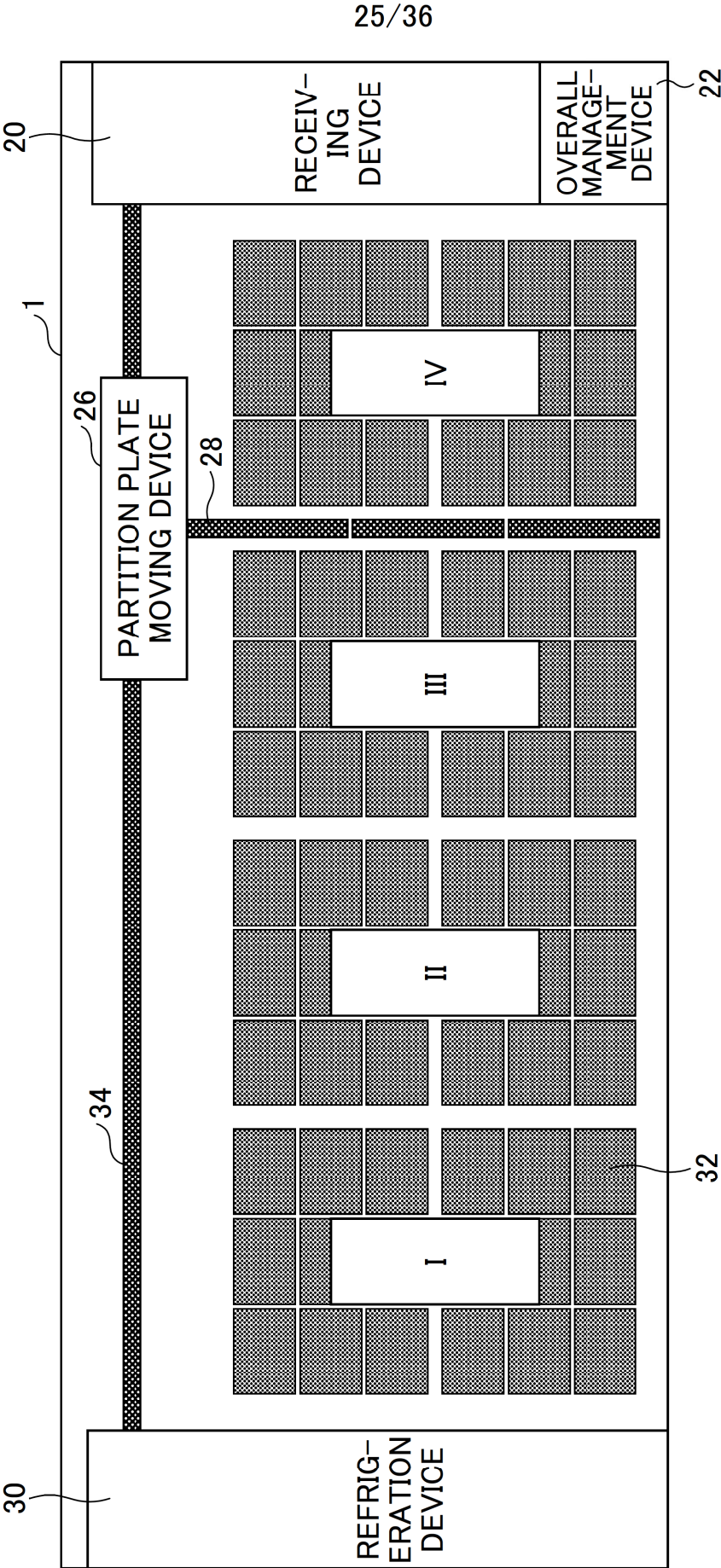


FIG. 15B

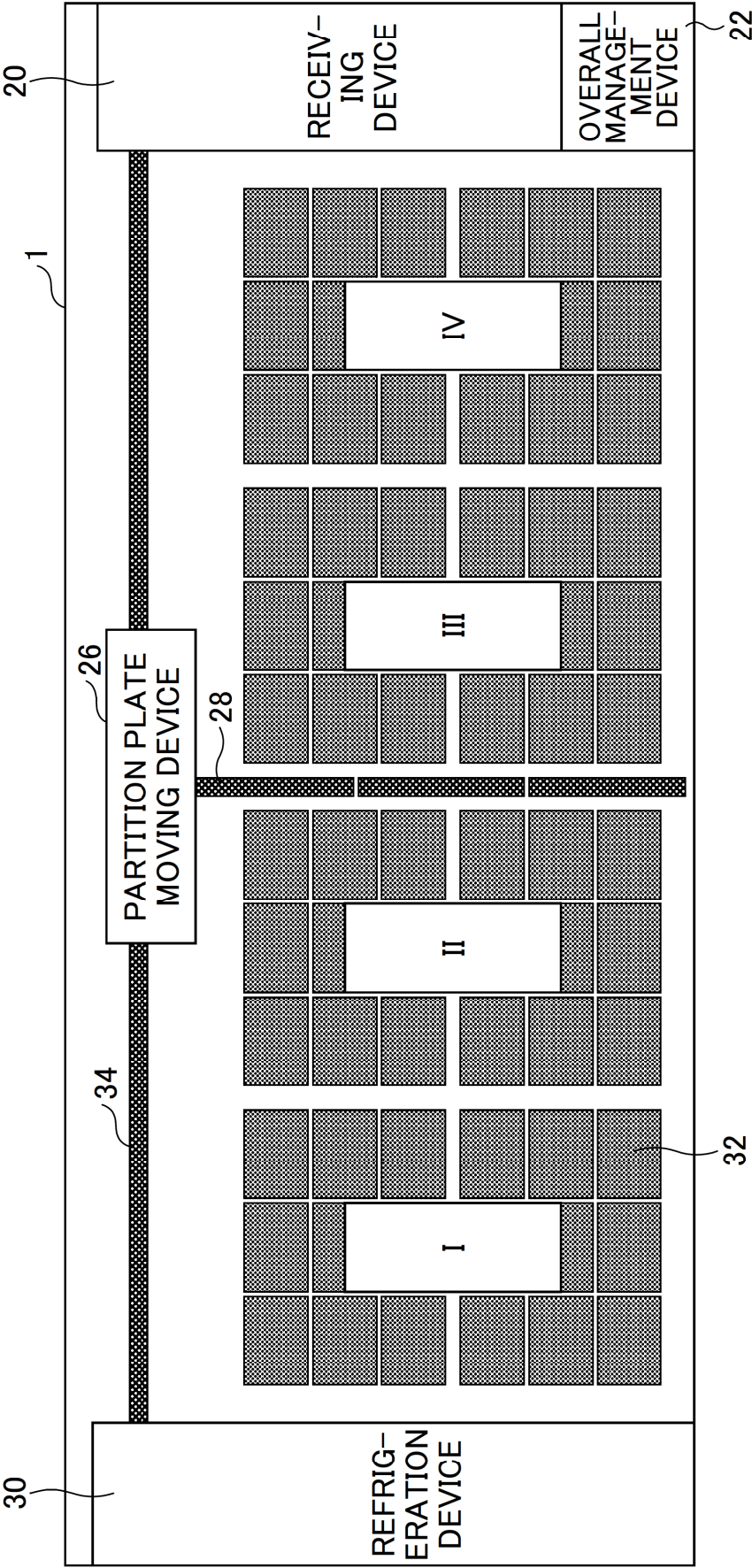


FIG.16A

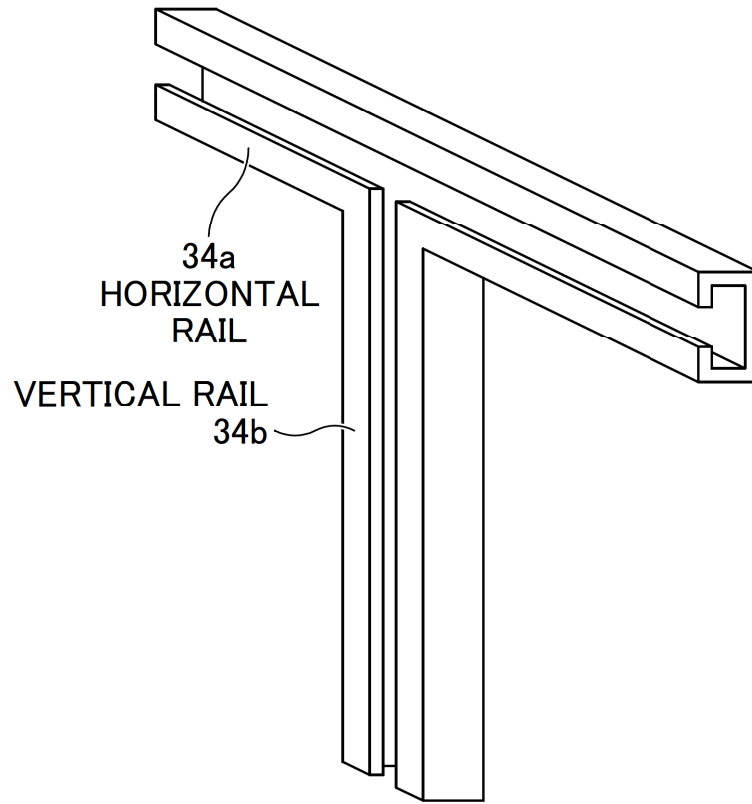
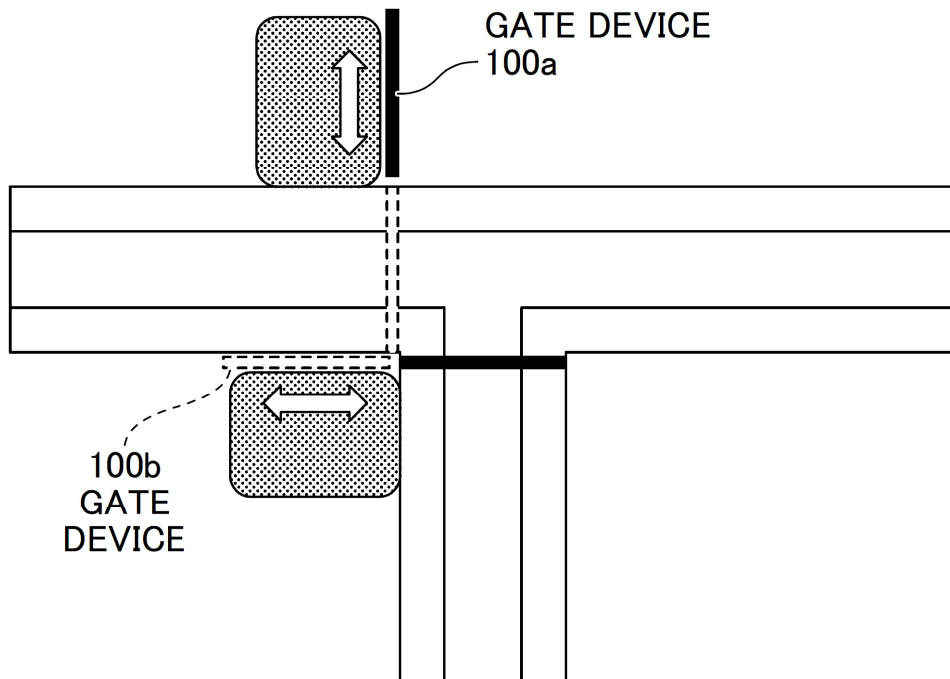


FIG.16B



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FIG.17A

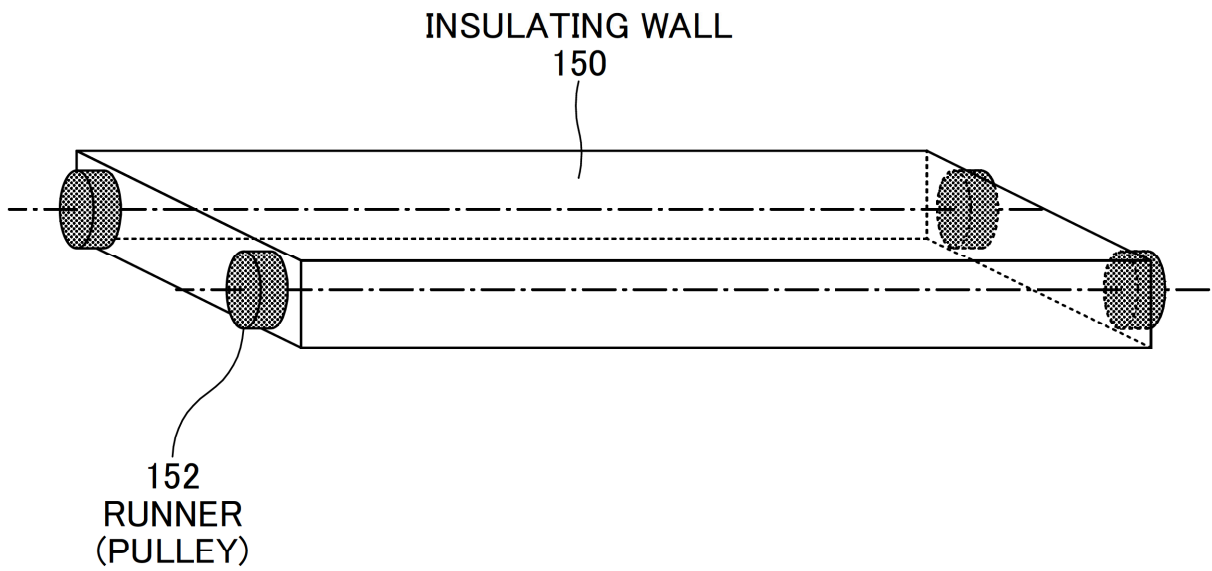
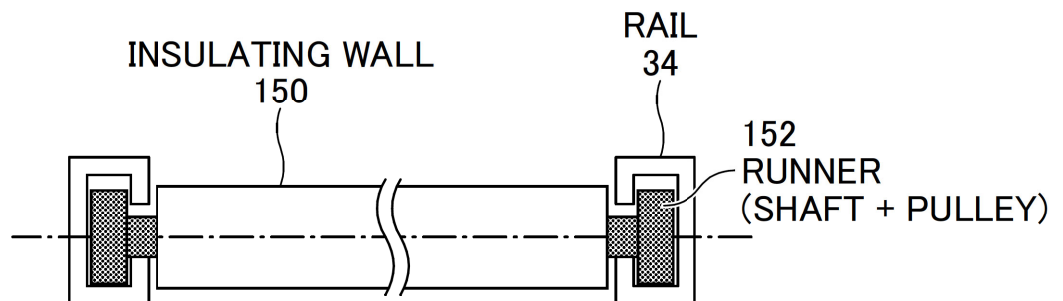
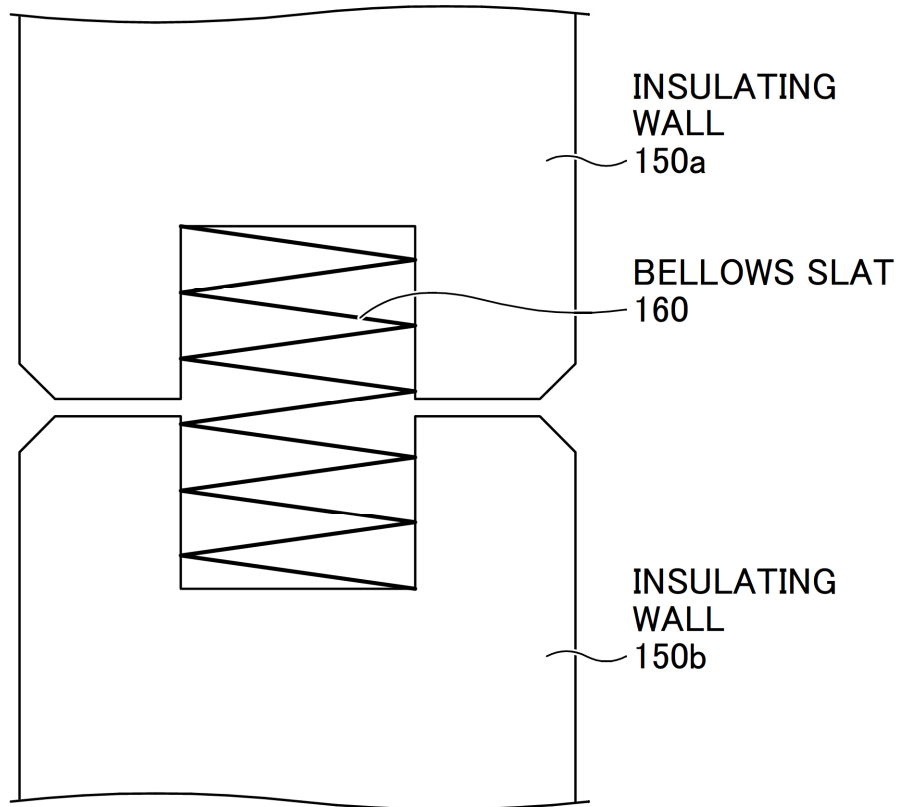


FIG.17B



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FIG.18



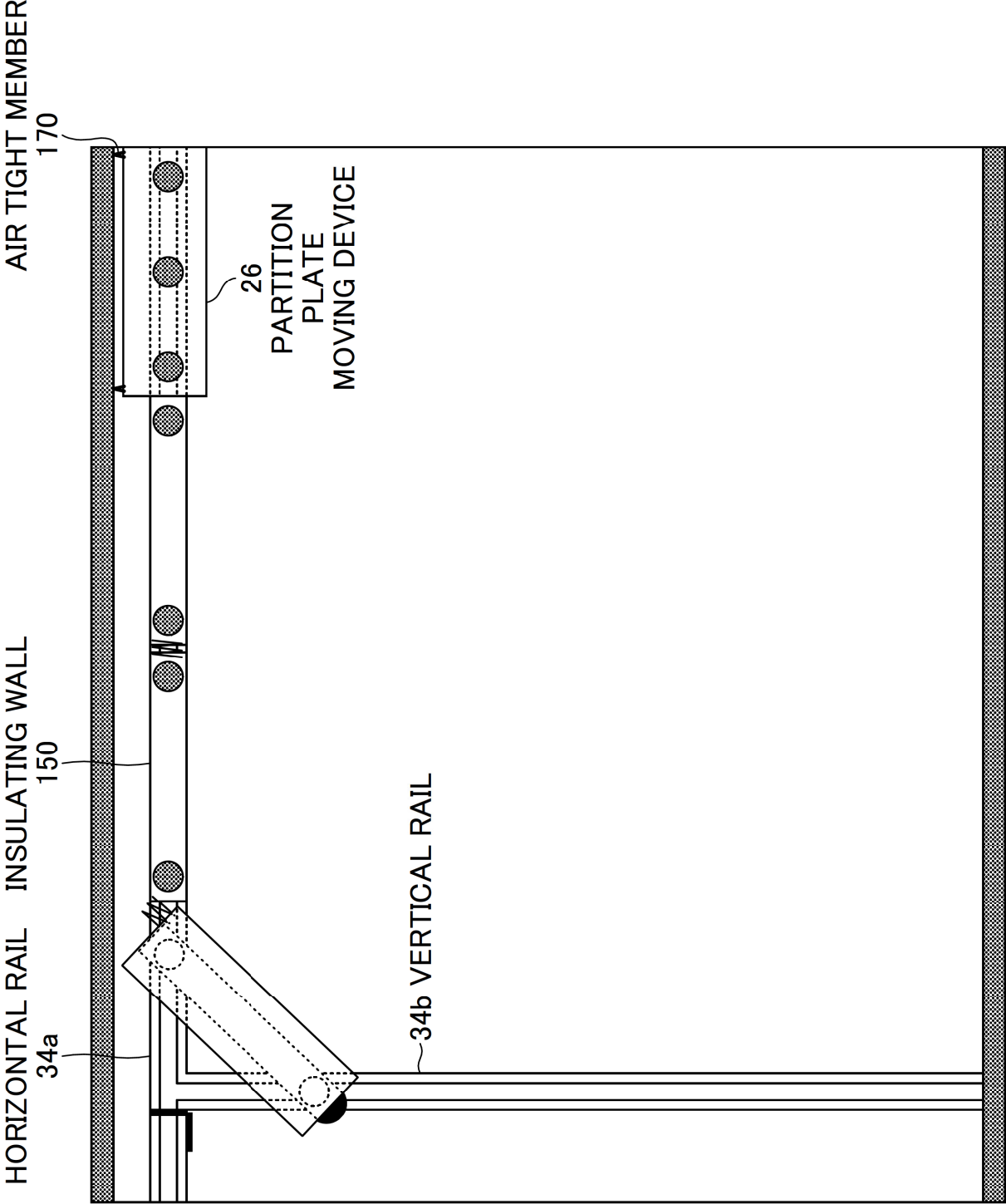
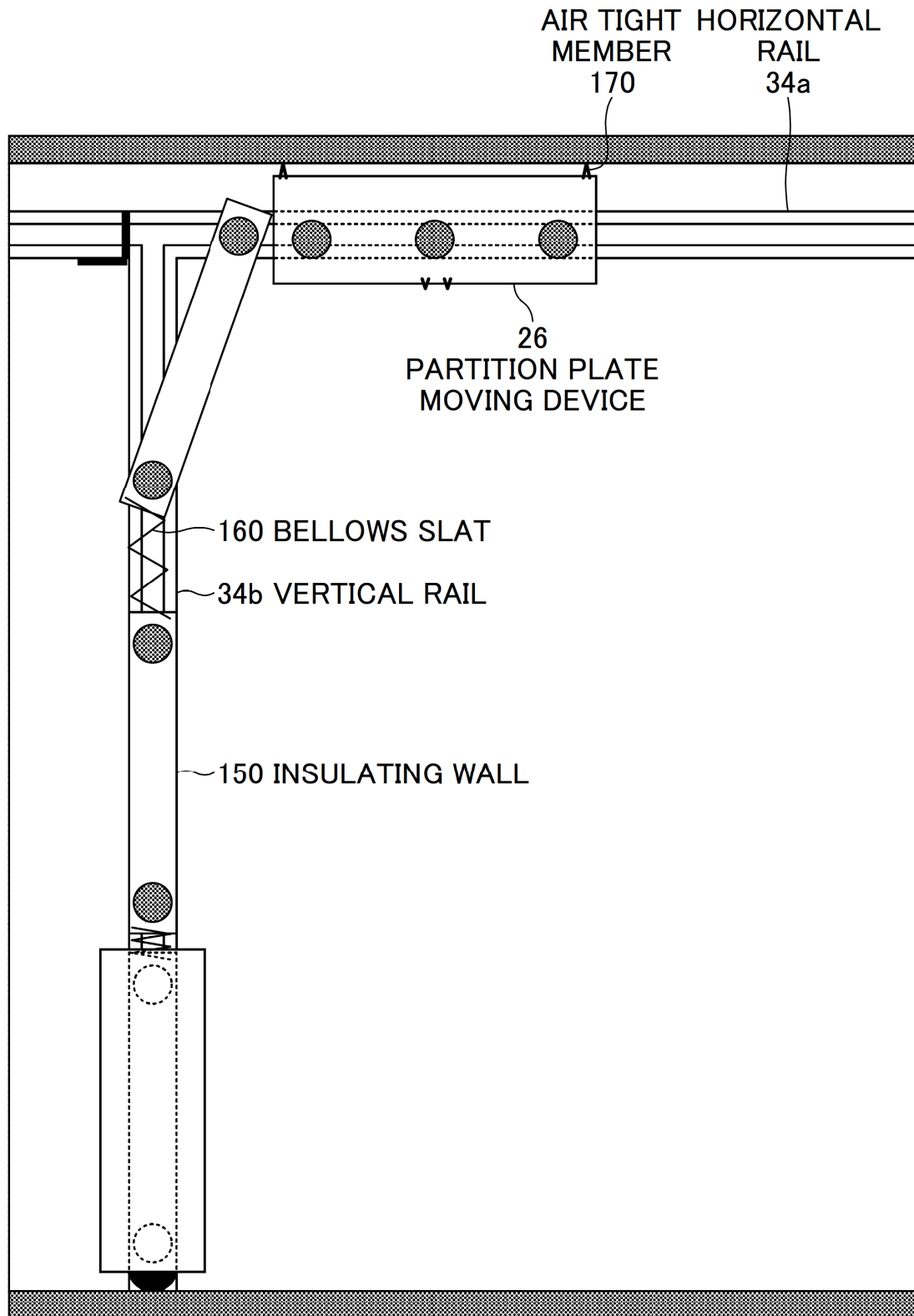
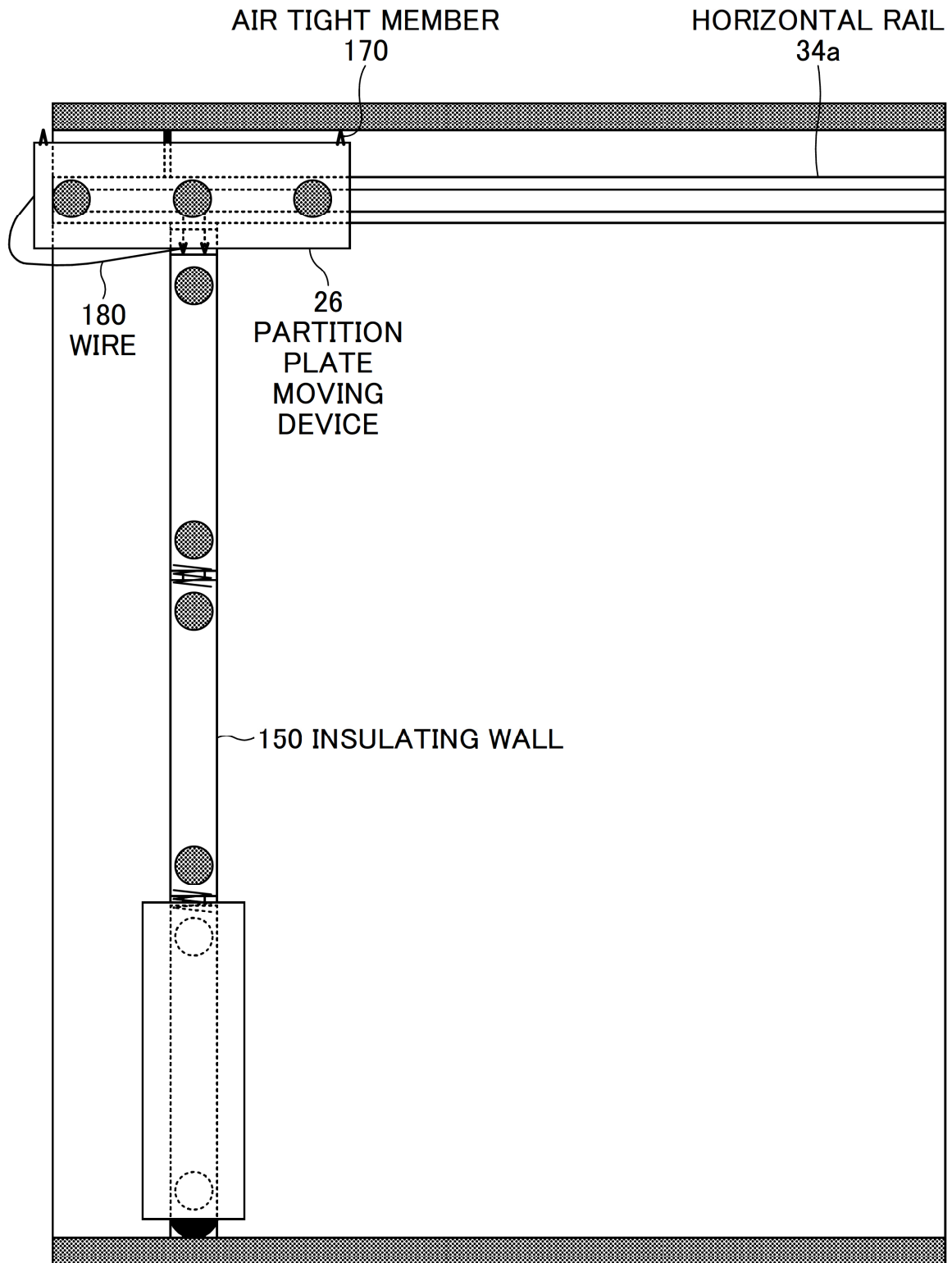


FIG.19

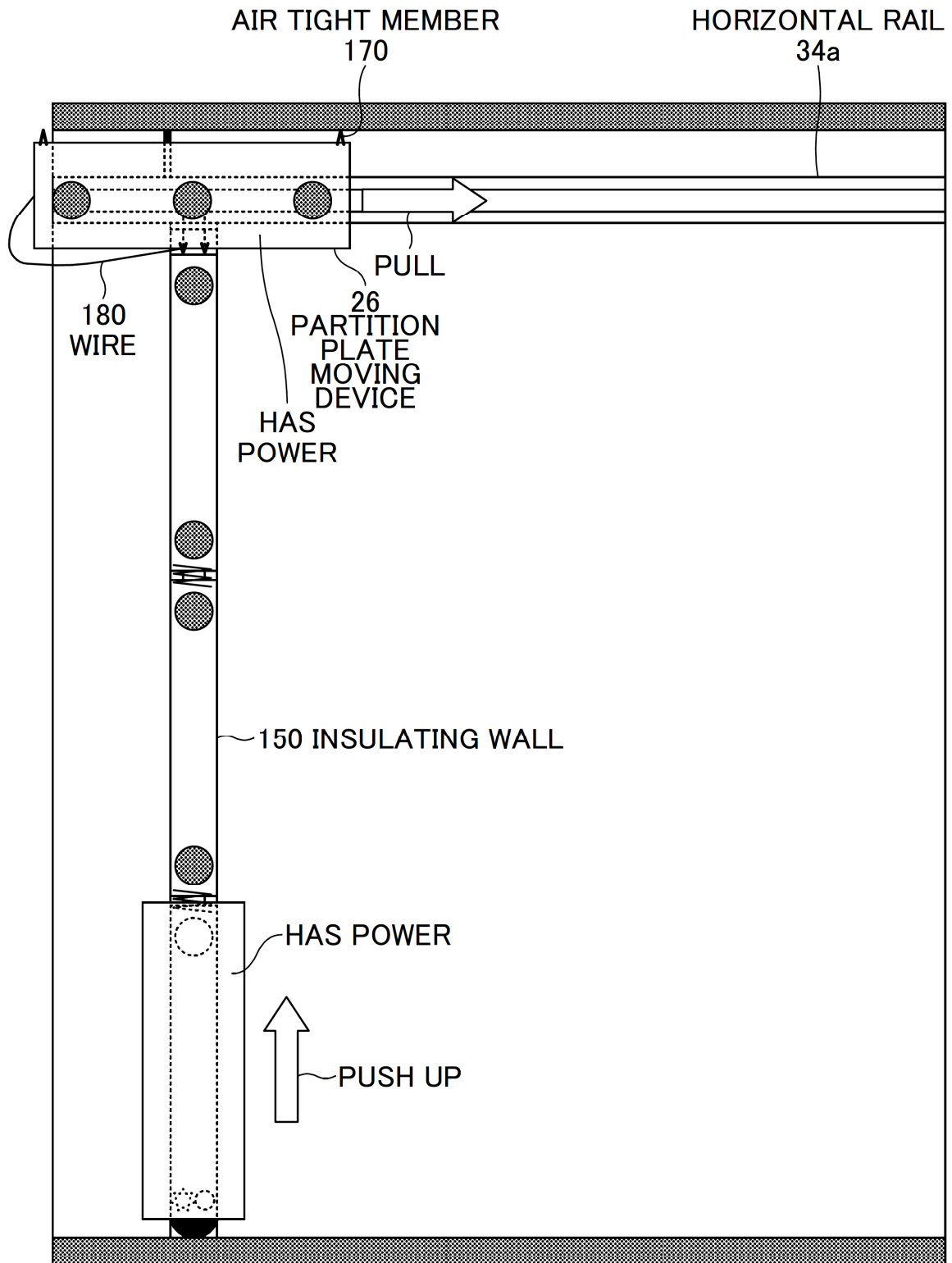
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FIG.20



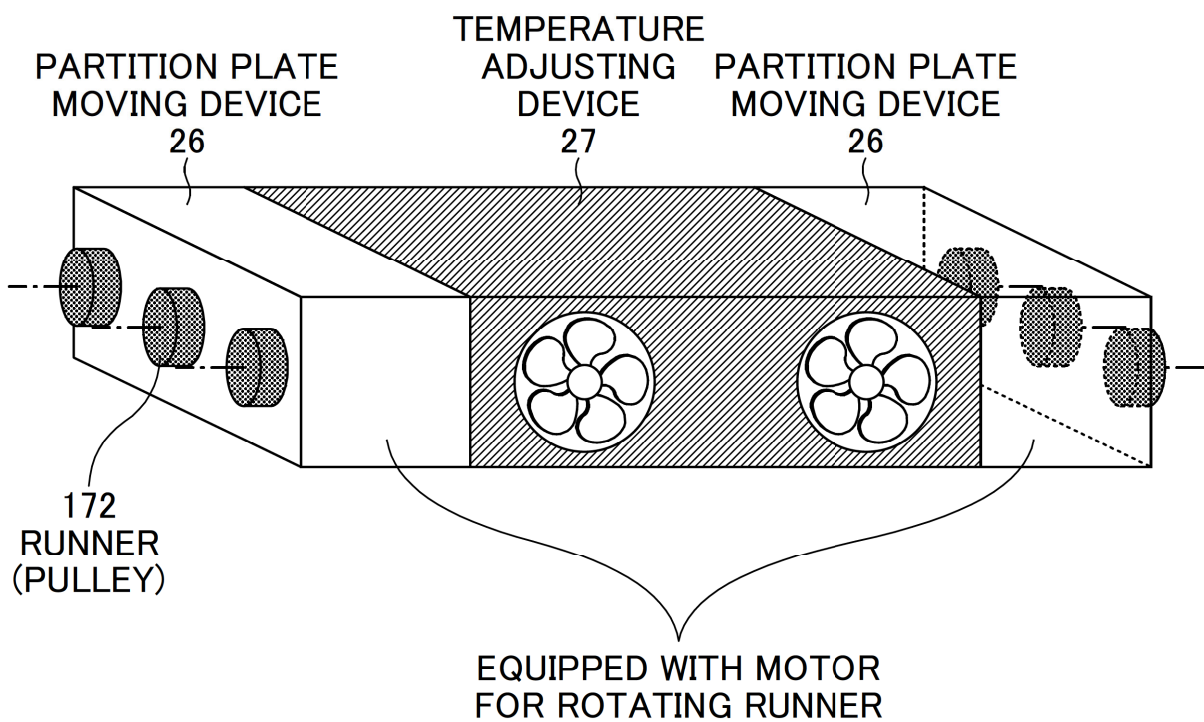
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FIG.21



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FIG.22



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FIG.23



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FIG.24A

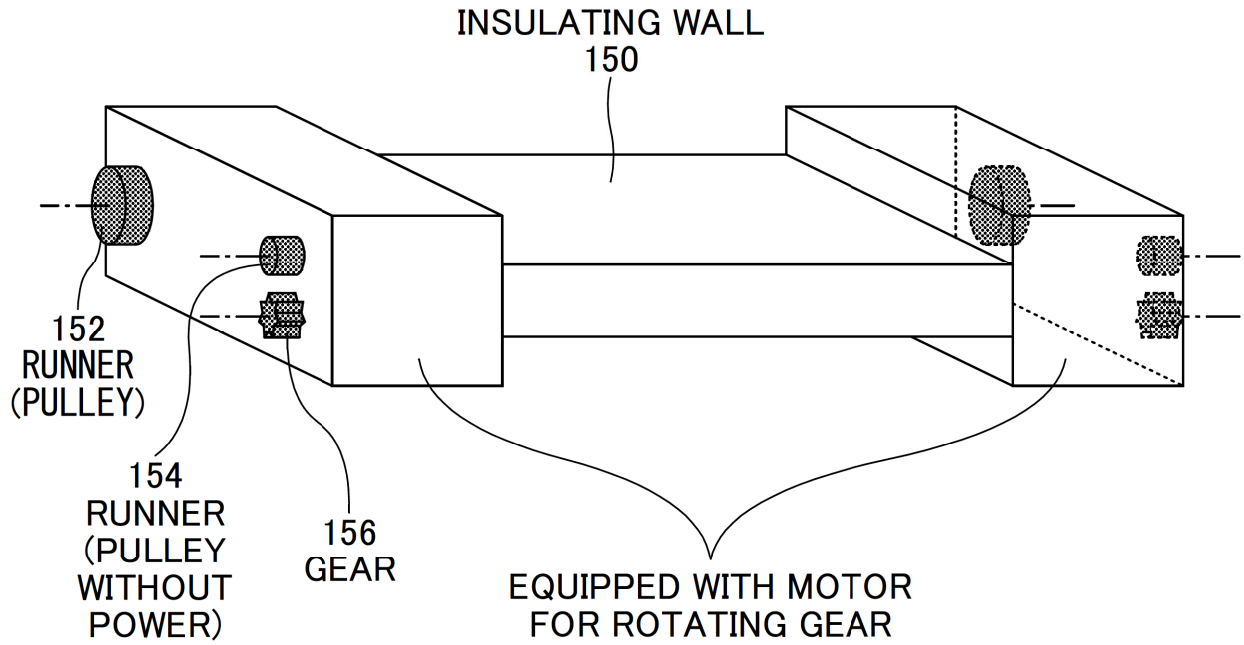
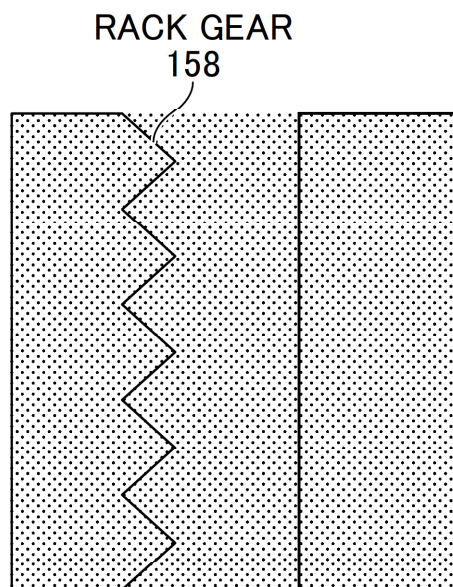


FIG.24B



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FIG.24C

