

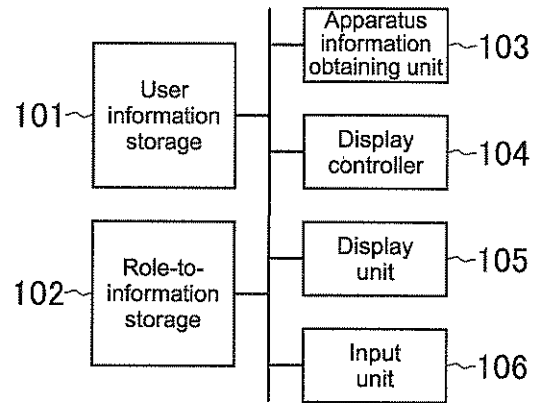


FIG.1

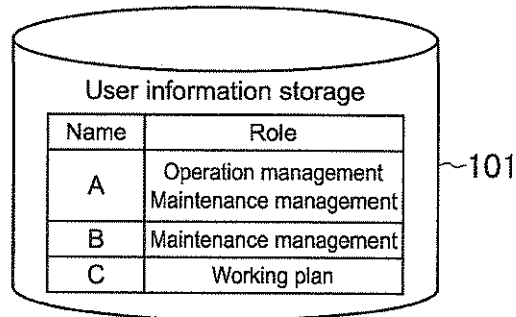


FIG.2

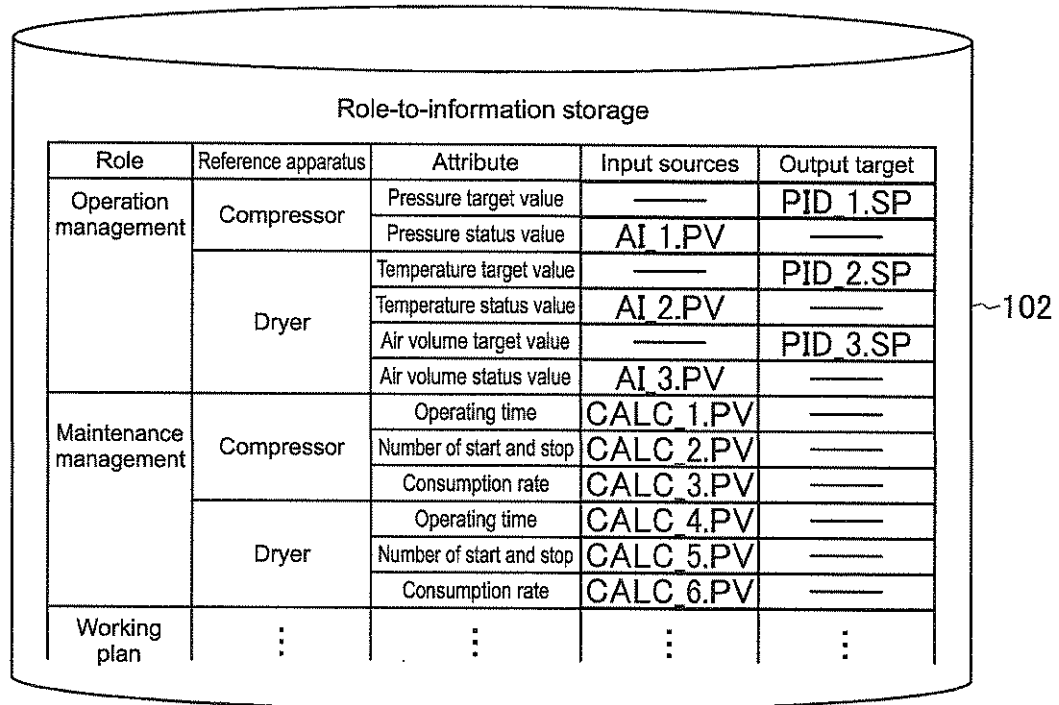


FIG.3

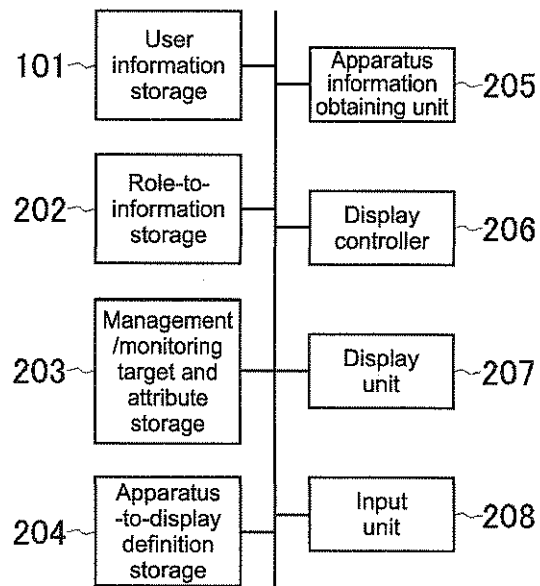


FIG.4

Role-to-information storage			
Role	Reference apparatus	Reference classification	Shared information
Operation management	Compressor	Operation	Alarm confirmation
	Dryer	Operation	
Maintenance management	Compressor	Maintenance	Handover
		Energy	
	Dryer	Maintenance	—
		Energy	
Working plan	Compressor	Maintenance	—
		Energy	
	Dryer	Maintenance	—
		Energy	

FIG.5

Management/monitoring target and attribute storage				
Apparatus	Classification	Attribute	Input sources	Output target
Compressor	Operation	Pressure target value	—	PID 1.SP
		Pressure status value	AI 1.PV	—
	Maintenance	Operating time	CALC 1.PV	—
		Number of start and stop	CALC 2.PV	—
	Energy	Consumption rate	CALC 3.PV	—
Dryer	Operation	Temperature target value	—	PID 2.SP
		Temperature status value	AI 2.PV	—
		Air volume target value	—	PID 3.SP
		Air volume status value	AI 3.PV	—
	Maintenance	Operating time	CALC 4.PV	—
		Number of start and stop	CALC 5.PV	—
	Energy	Consumption rate	CALC 6.PV	—

FIG.6

Apparatus-to-display definition storage		
Apparatus	Reference classification	Apparatus information window definition
Compressor	Operation	Compressor operation information window
	Maintenance	Compressor maintenance information window
	Energy	Compressor energy information window
Dryer	Operation	Dryer operation information window
	Maintenance	Dryer maintenance information window
	Energy	Dryer energy information window

FIG.7

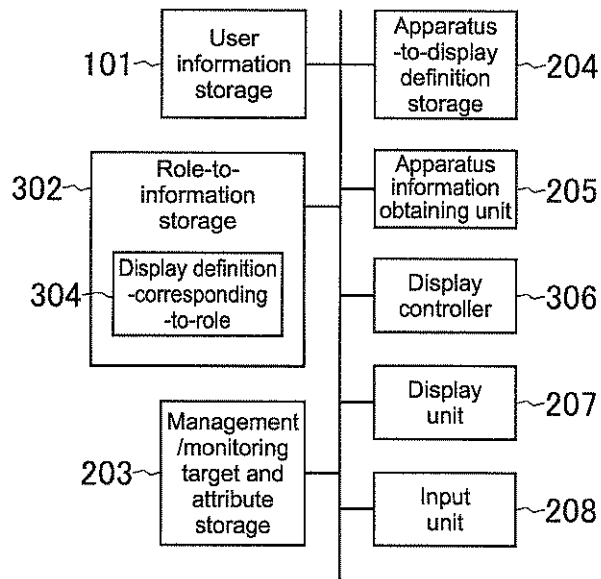


FIG.8

Role-to-information storage 304				
Role	Reference apparatus	Reference classification	Display definition	Shared information
Operation management	Compressor	Operation	Display definition-corresponding-to-apparatus	Alarm confirmation
	Dryer	Operation		
Maintenance management	Compressor	Maintenance	Display definition-corresponding-to-apparatus	Handover
		Energy		
	Dryer	Maintenance	Display definition-corresponding-to-apparatus	—
		Energy		
Working plan	Compressor	Maintenance	Display definition-corresponding-to-apparatus	—
		Energy	Energy window definition	
	Dryer	Maintenance	Display definition-corresponding-to-apparatus	—
		Energy		

FIG.9

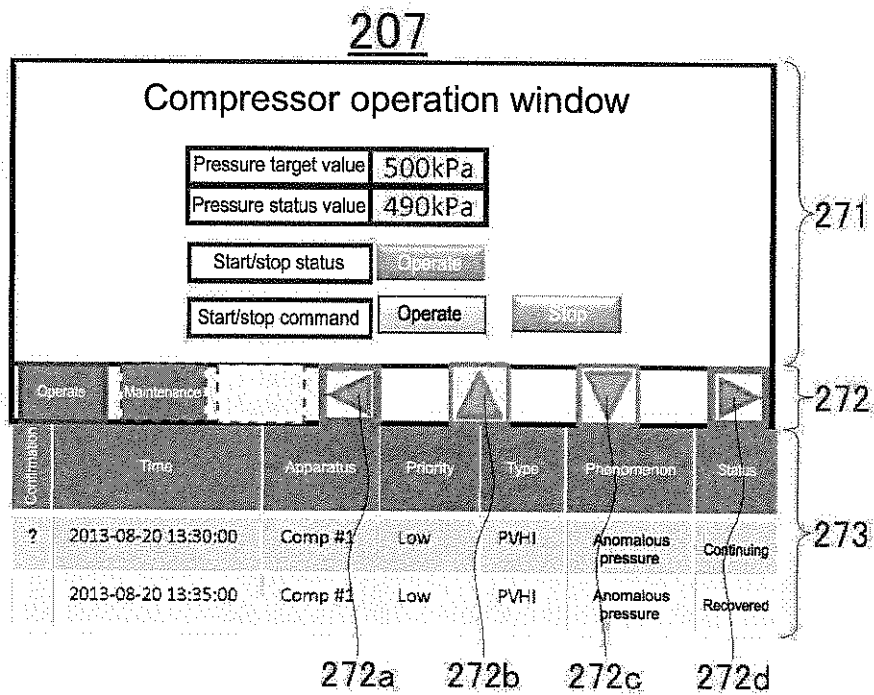


FIG.10

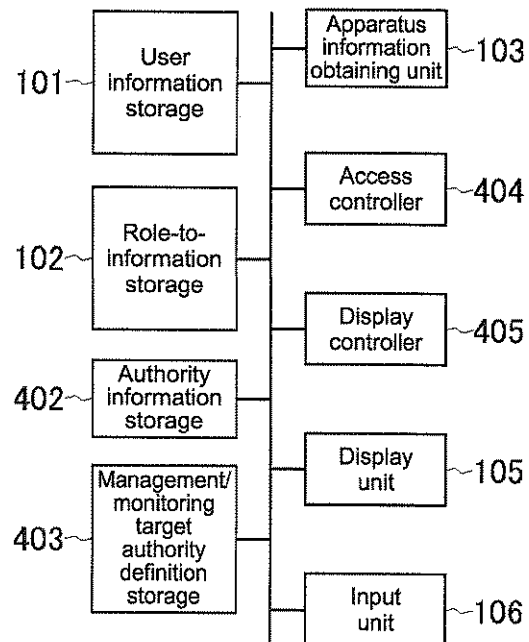


FIG.11

Authority information storage		
Role	Reference classification	Authority
Operation management	Operation	Entire operation
	Maintenance	Monitoring
	Energy	No
Maintenance management	Operation	Monitoring
	Maintenance	Entire operation
	Energy	Partial operation
Working plan	Operation	Monitoring
	Maintenance	Monitoring
	Energy	Partial operation

FIG.12

Management/monitoring target authority definition storage				
Reference classification	Compressor		Dryer	
	Readout minimum authority	Change minimum authority	Readout minimum authority	Change minimum authority
Operation	Monitoring	Partial operation	Partial operation	Partial operation
Maintenance	Monitoring	Partial operation	Partial operation	Partial operation
Energy	Monitoring	Partial operation	Partial operation	Entire operation

FIG.13

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Compressor operation window

Pressure target value

500kPa

Pressure status value

490kPa

Start/stop status

Operate

Start/stop command

Operate

Stop

Operate

Maintenance

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Confirmation	Time	Apparatus	Priority	Type	Phenomenon	Status
?	2013-08-20 13:30:00	Comp #1	Low	PVHI	Anomalous pressure	Continuing
	2013-08-20 13:35:00	Comp #1	Low	PVHI	Anomalous pressure	Recovered

FIG.14