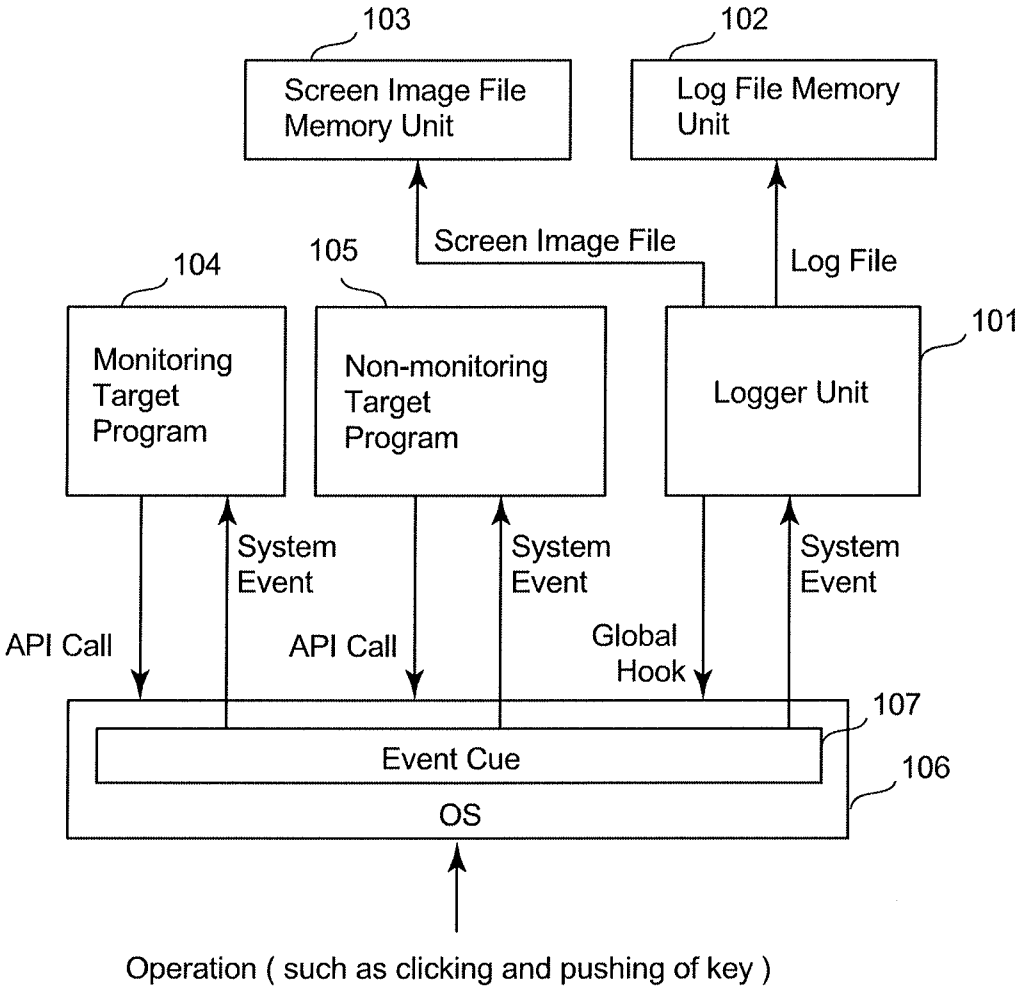
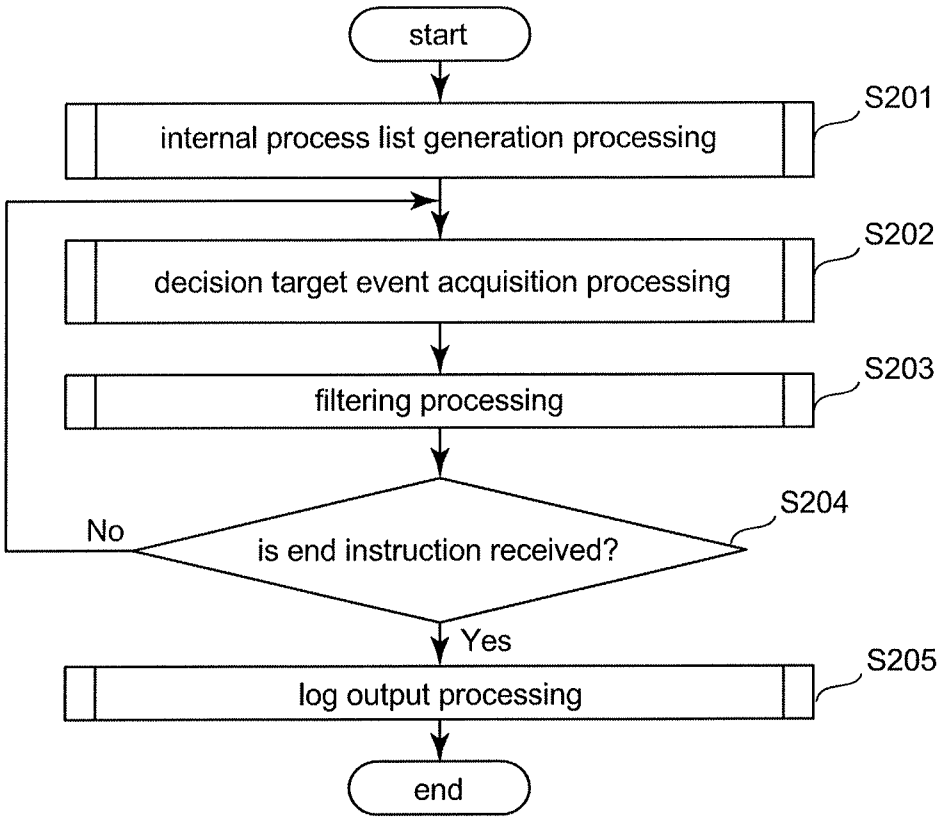

103
Screen Image File Memory Unit
102
Log File Memory Unit
Screen Image File
Log File
104
Monitoring Target Program
105
Non-monitoring Target Program
Logger Unit
101
System Event
System Event
System Event
API Call
API Call
Global Hook
107
Event Cue
106
OS
Operation (such as clicking and pushing of key)

Fig.1



< Processing Flow Of Logger Unit >

Fig.2

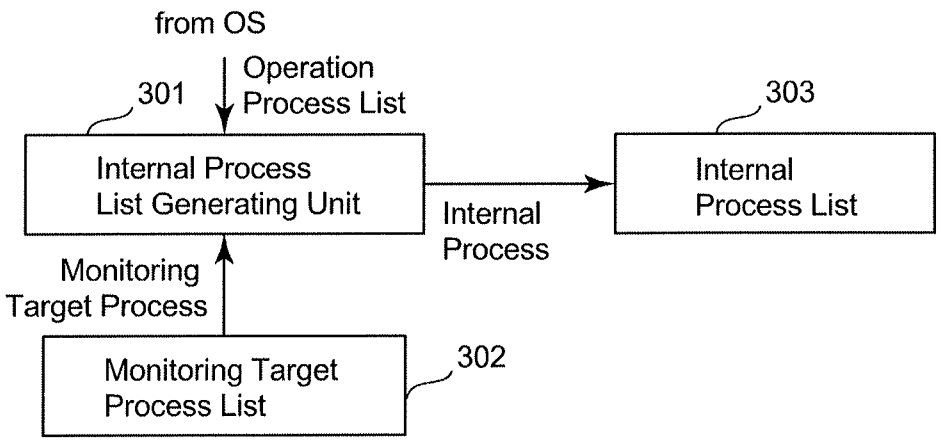
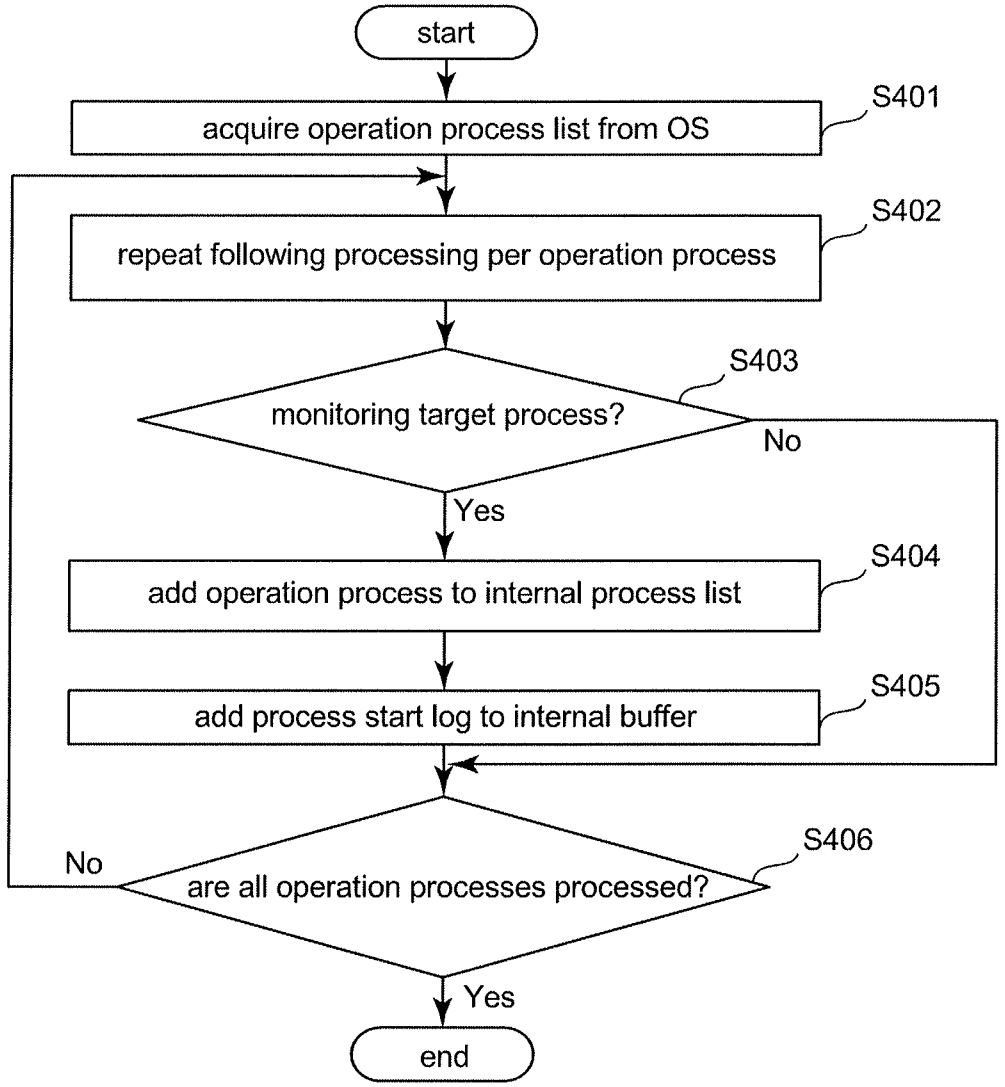


Fig.3



< Internal Process List Generation Processing >

Fig.4

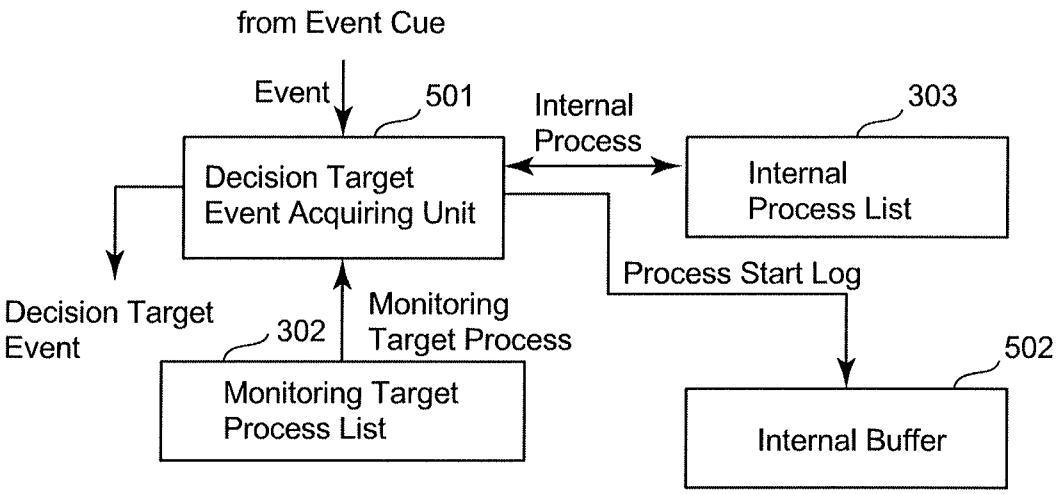
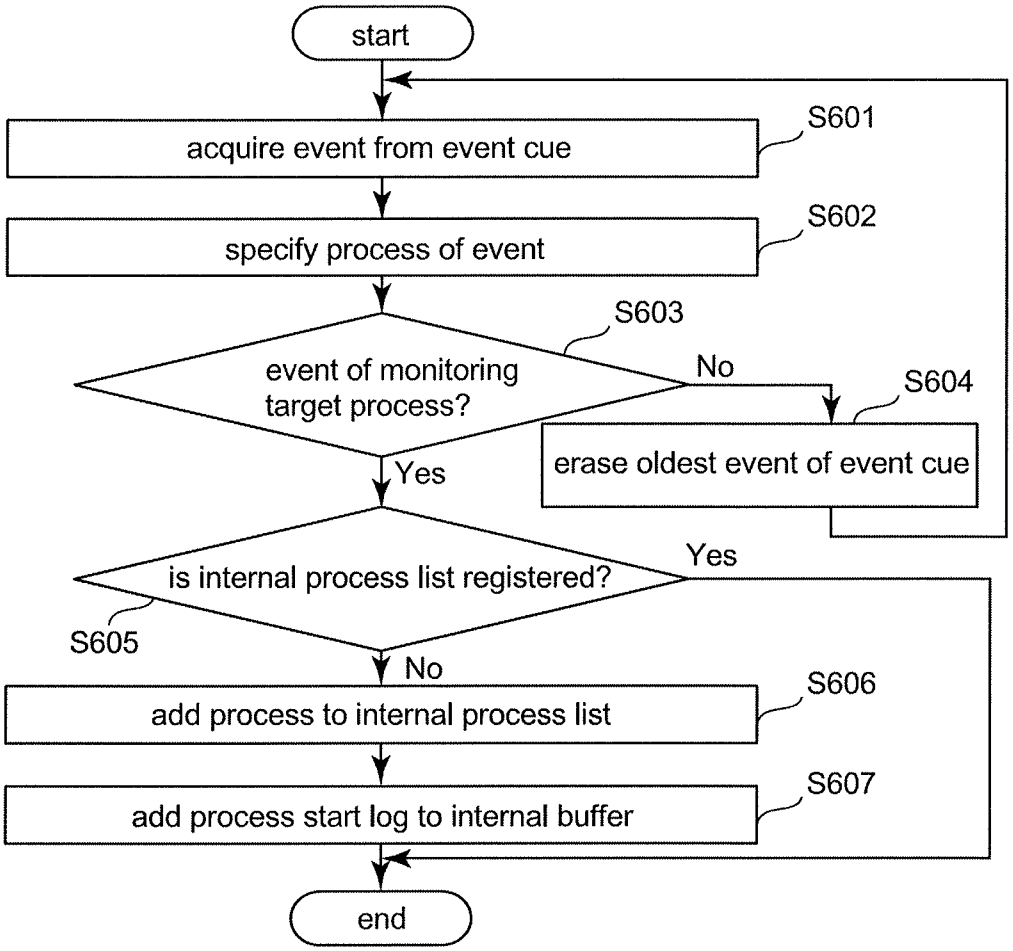


Fig.5



< Decision Target Event Acquisition Processing >

Fig.6

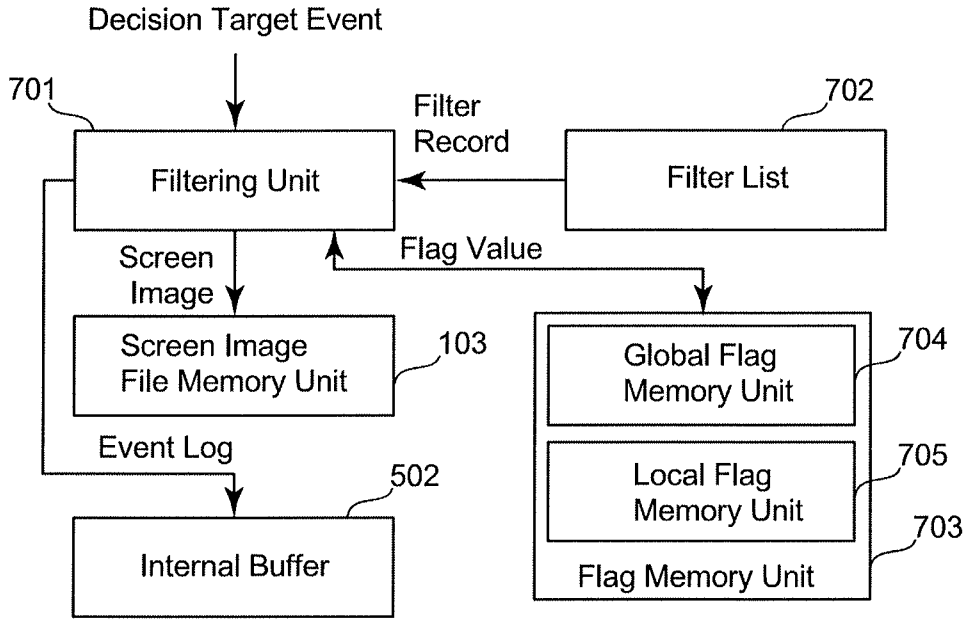


Fig.7

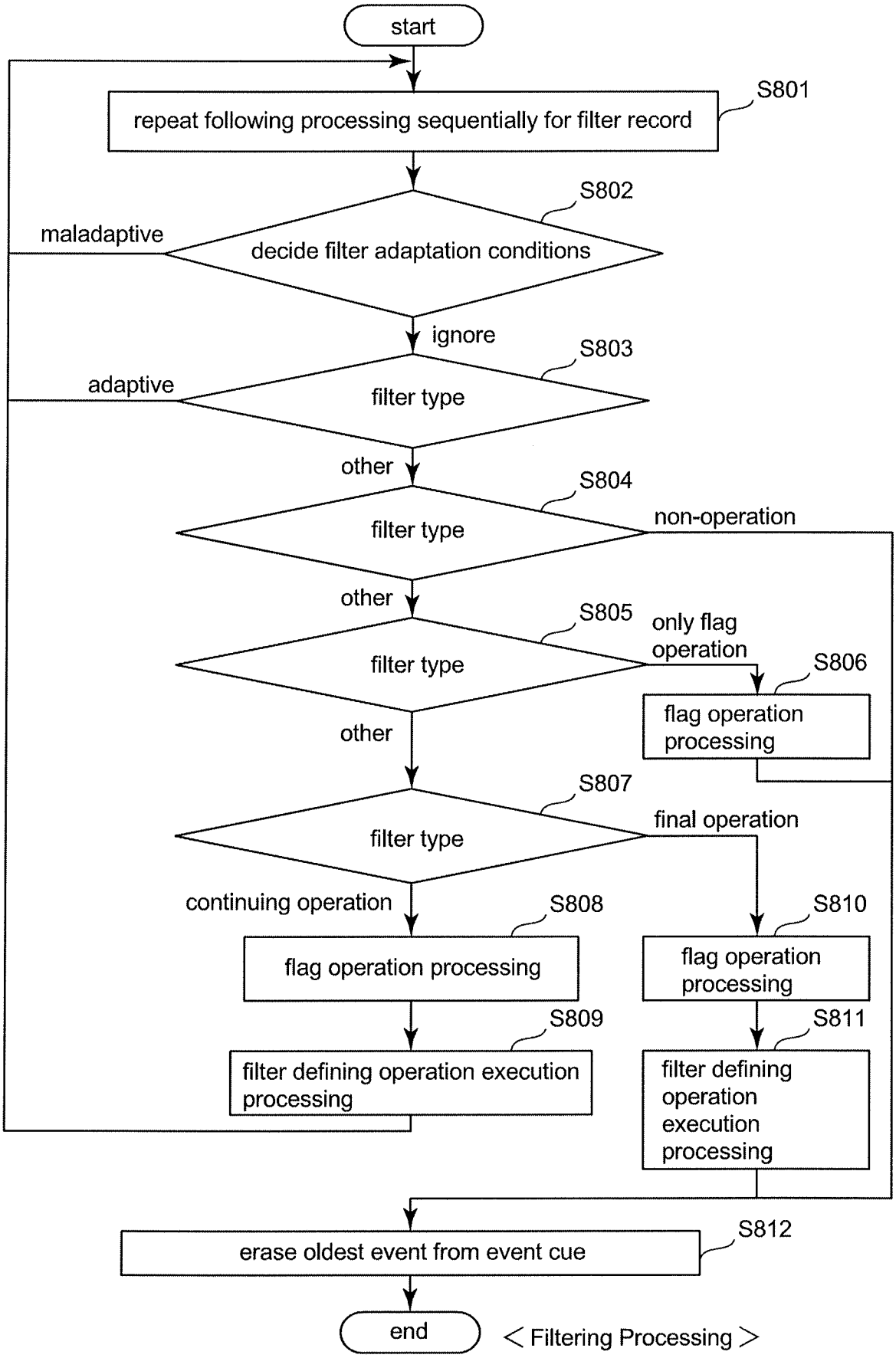

start
repeat following processing sequentially for filter record
S801
S802
decide filter adaptation conditions
maladaptive
ignore
S803
filter type
adaptive
other
S804
filter type
non-operation
other
S805
filter type
only flag operation
S806
flag operation processing
other
S807
filter type
final operation
continuing operation
S808
flag operation processing
S810
flag operation processing
S809
filter defining operation execution processing
S811
filter defining operation execution processing
S812
erase oldest event from event cue
end
< Filtering Processing >

Fig.8

Event Type
Operation Parameter
Operation Target Type
Operation Target State
Operation Target Name
Class Name Of Operation Target
Unique Id Of Operation Target
Caption Of Root Window Of Operation Target
Class Name Of Root Window Of Operation Target
Process Name

< System Event >

Fig.9

Filter ID	Filter Type	Filter Adaptation Conditions	
		Event Conditions	Flag Conditions
F 01	Ignore	Event Conditions A	Flag Conditions A
F 02	Non-operation	Event Conditions B	Flag Conditions B
F 03	Only Flag Operation	Event Conditions C	Flag Conditions C
F 04	Continuing Operation	Event Conditions D	Flag Conditions D
F 05	Final Operation	Event Conditions E	Flag Conditions E

Filter Defining Operation		
Screen Image Acquisition Instruction	Command Instruction	Log Write Instruction
Screen Image Acquisition Instruction A	Command Instruction A	Log Write Instruction A
Screen Image Acquisition Instruction B	Command Instruction B	Log Write Instruction B
Screen Image Acquisition Instruction C	Command Instruction C	Log Write Instruction C
Screen Image Acquisition Instruction D	Command Instruction D	Log Write Instruction D
Screen Image Acquisition Instruction E	Command Instruction E	Log Write Instruction E

Flag Operation Instruction
Flag Operation Instruction A
Flag Operation Instruction B
Flag Operation Instruction C
Flag Operation Instruction D
Flag Operation Instruction E

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< Filter List >

Fig.10

	Event ID	Params	Element Type ID
Event Conditions A	No Condition	No Condition	Mouse Move
Event Conditions B	Caret	No Condition	No Condition
Event Conditions C	Push Button	No Condition	Mouse Down
Event Conditions D	Push Button	No Condition	Mouse Up
Event Conditions E	Text	No Condition	Key Down

Status	Element Name	Class Name	Control ID
No Condition	No Condition	No Condition	No Condition
No Condition	No Condition	No Condition	No Condition
No Condition	No Condition	Equal"button"	No Condition
No Condition	No Condition	Equal"button"	No Condition
No Condition	No Condition	No Condition	No Condition

Root Name	Root Class Name	Process Name
No Condition	No Condition	No Condition
No Condition	No Condition	No Condition
No Condition	No Condition	Equal"calc"
No Condition	No Condition	Equal"calc"
No Condition	No Condition	Equal"calc"

Fig.11

Global Flag Conditions

	Global Flag ID	Comparison Conditions	Comparison Value
Flag Conditions A	No Setting	No Setting	No Setting
Flag Conditions B	GF2	Equal	1
Flag Conditions C	No Setting	No Setting	No Setting
Flag Conditions D	No Setting	No Setting	No Setting
Flag Conditions E	No Setting	No Setting	No Setting

Local Flag Conditions

Local Flag ID	Comparison Conditions	Comparison Value
No Setting	No Setting	No Setting
No Setting	No Setting	No Setting
No Setting	No Setting	No Setting
No Setting	No Setting	No Setting
LF2	Equal to or More Than	3

Fig.12

Global Flag Operation

	Global Flag ID	Operation Computation	Operation Value
Flag Operation Instruction A	No Setting	No Setting	No Setting
Flag Operation Instruction B	No Setting	No Setting	No Setting
Flag Operation Instruction C	GF1	Substitution	1
Flag Operation Instruction D	No Setting	No Setting	No Setting
Flag Operation Instruction E	No Setting	No Setting	No Setting

Local Flag Operation

Local Flag ID	Operation Computation	Operation Value
No Setting	No Setting	No Setting
No Setting	No Setting	No Setting
No Setting	No Setting	No Setting
LF1	Addition	1
No Setting	No Setting	No Setting

Fig.13

Capture Scheme
Capture Image File Format
Range Coordinate in Case of Partial Capture
Compression Rate in Case of Jpg Format
Capture Timing Delay Time
Visibility/invisibility of Window Display Check
Acquisition of Image From Gui Cache of System

< Screen Image Acquisition Instruction >

Fig.14

	Write Type	Event ID Correction Value
Log Write Instruction A	No Setting	No Setting
Log Write Instruction B	No Setting	No Setting
Log Write Instruction C	No Setting	No Setting
Log Write Instruction D	Not-corrected	No Setting
Log Write Instruction E	Corrected	"Document"

Event Type ID Correction Value	Event Name Correction Value	Value Correction Value
No Setting	No Setting	No Setting
No Setting	No Setting	No Setting
No Setting	No Setting	No Setting
No Setting	No Setting	No Setting
"Key Down"	"sol"	No Setting

< Log Write Instruction >

Fig.15

Log ID
Recording Date
User ID
Event Type
Operation Parameter
Process Name
Process ID
Operation Target Value
Operation Target Type
Operation Target State
Operation Target Name
Class Name of Operation Target
ID of Child Item of Operation Target
Right and Wrong of Top Window of Operation Target
Control ID of Operation Target
Rectangular Range of Operation TargetScreen Coordinate
Handle of Operation Target

＜Log Record (1／2)＞

Fig.16

Handle of Operation Target
Handle of Root Window of Operation Target
File Name of Relevant Screen
Type of Capture Screen (Range)
Unique ID of Operation Target
Class Name of Root Window of Operation Target
Caption of Root Window of Operation Target
End
Comment

＜Log Record (2／2)＞

Fig.17

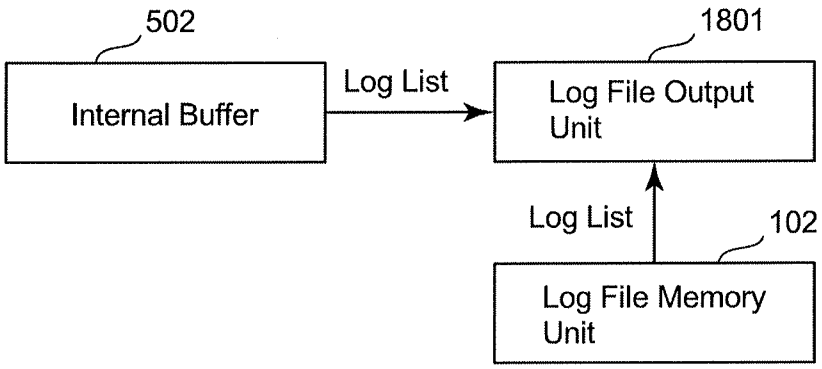


Fig.18

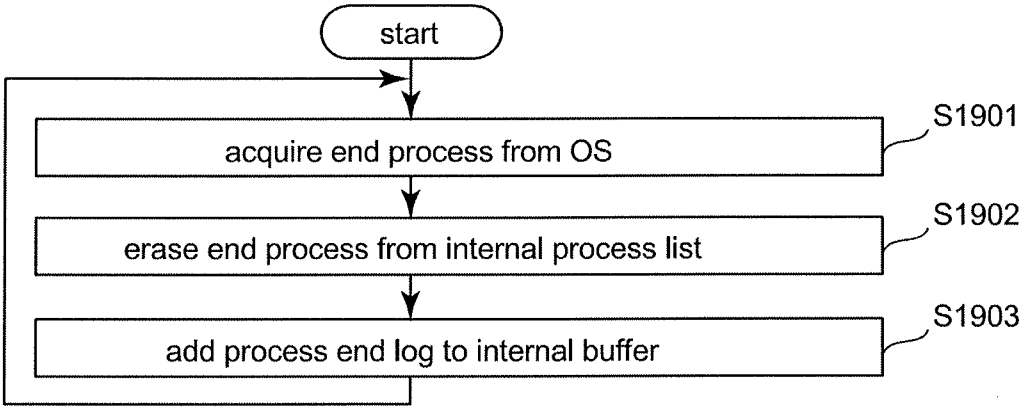


Fig.19

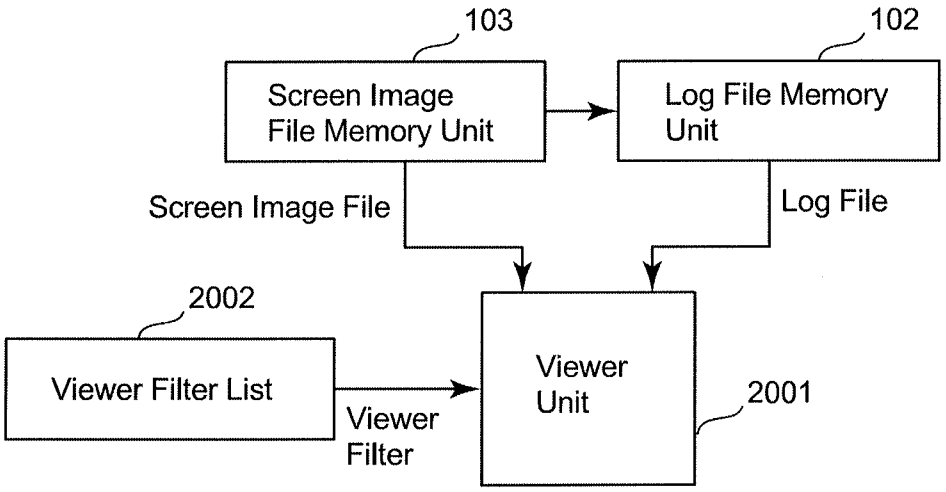
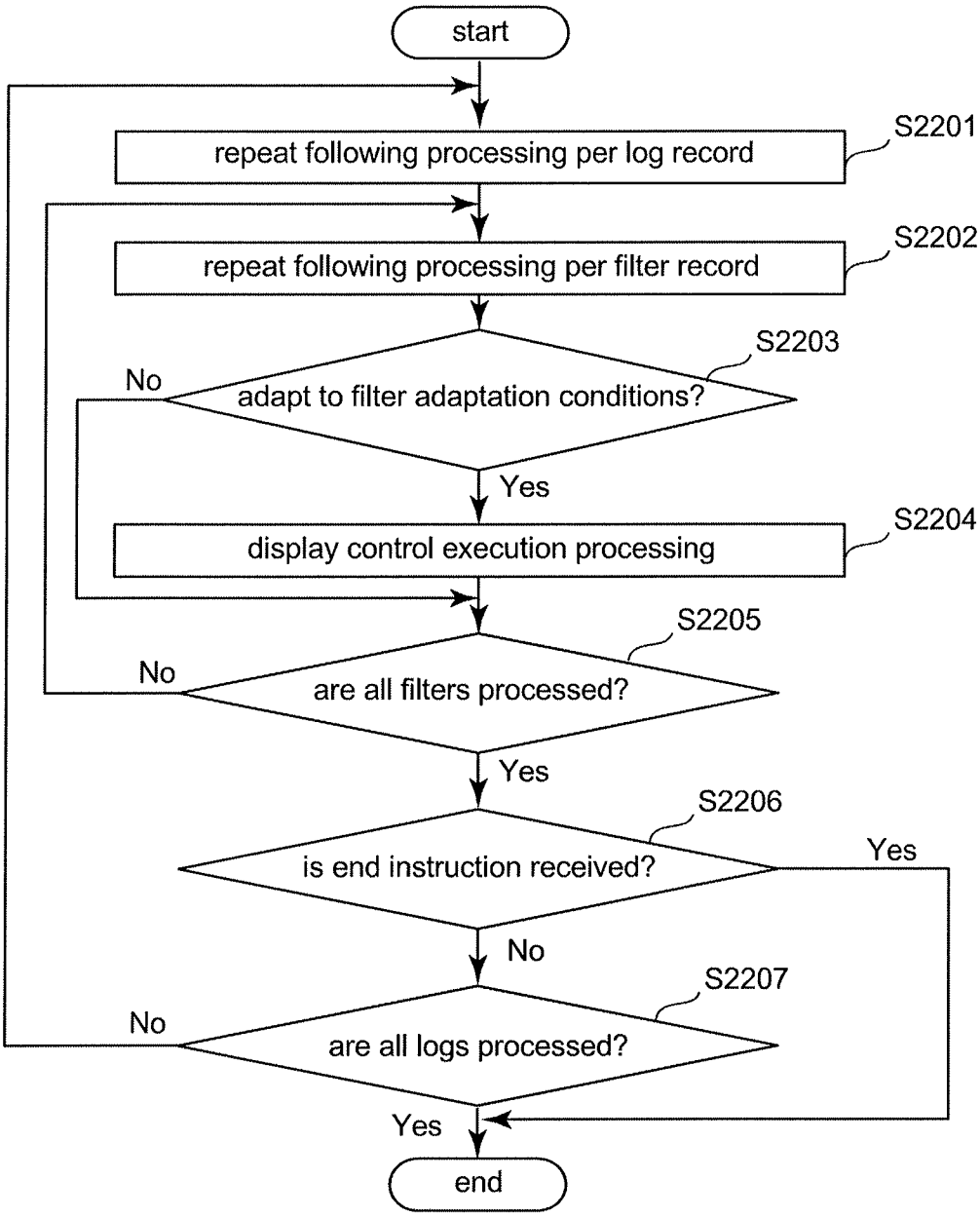


Fig.20

Filter ID	Filter Adaptation Conditions	Display Control Instruction
F01	Filter Adaptation Conditions A	Display Control Instruction A
F02	Filter Adaptation Conditions B	Display Control Instruction B
F03	Filter Adaptation Conditions C	Display Control Instruction C
F04	Filter Adaptation Conditions D	Display Control Instruction D
F05	Filter Adaptation Conditions E	Display Control Instruction E

Fig.21



< Processing Flow of Viewer Unit >

Fig.22

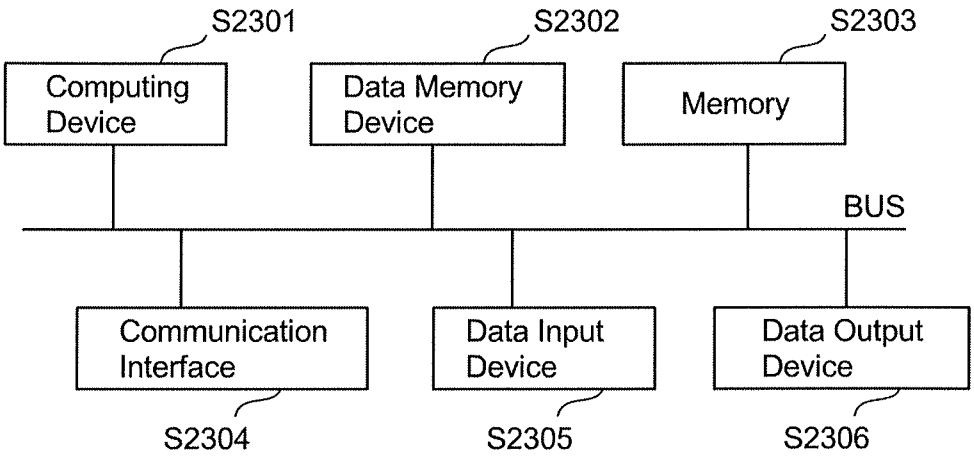

S2301
S2302
S2303
Computing Device
Data Memory Device
Memory
BUS
Communication Interface
Data Input Device
Data Output Device
S2304
S2305
S2306

Fig.23