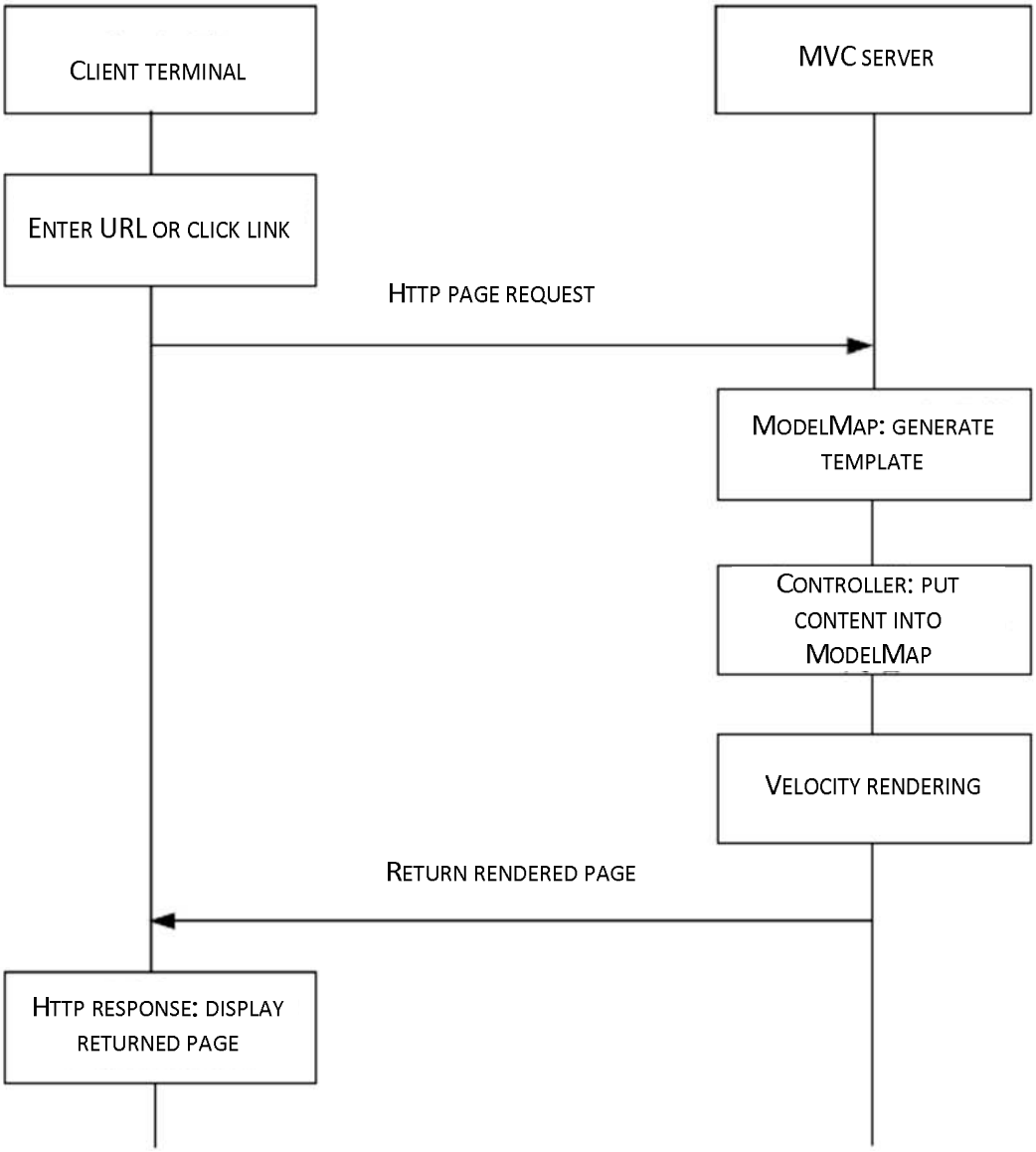
CLIENT TERMINAL
MVC SERVER
ENTER URL OR CLICK LINK
HTTP PAGE REQUEST
MODELMAP: GENERATE TEMPLATE
CONTROLLER: PUT CONTENT INTO MODELMAP
VELOCITY RENDERING
RETURN RENDERED PAGE
HTTP RESPONSE: DISPLAY RETURNED PAGE

FIG. 1

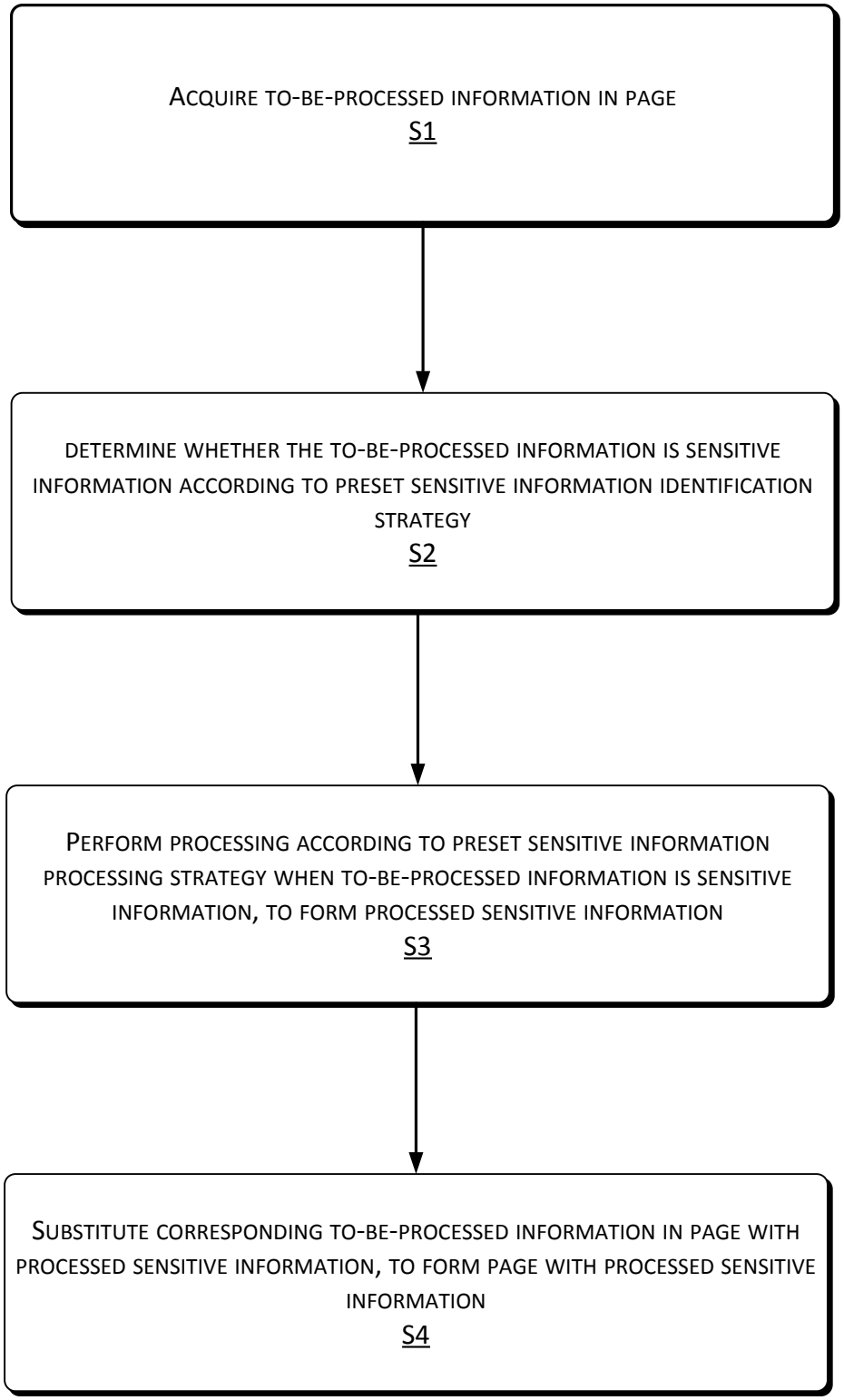
ACQUIRE TO-BE-PROCESSED INFORMATION IN PAGE
S1
DETERMINE WHETHER THE TO-BE-PROCESSED INFORMATION IS SENSITIVE INFORMATION ACCORDING TO PRESET SENSITIVE INFORMATION IDENTIFICATION STRATEGY
S2
PERFORM PROCESSING ACCORDING TO PRESET SENSITIVE INFORMATION PROCESSING STRATEGY WHEN TO-BE-PROCESSED INFORMATION IS SENSITIVE INFORMATION, TO FORM PROCESSED SENSITIVE INFORMATION
S3
SUBSTITUTE CORRESPONDING TO-BE-PROCESSED INFORMATION IN PAGE WITH PROCESSED SENSITIVE INFORMATION, TO FORM PAGE WITH PROCESSED SENSITIVE INFORMATION
S4

FIG. 2

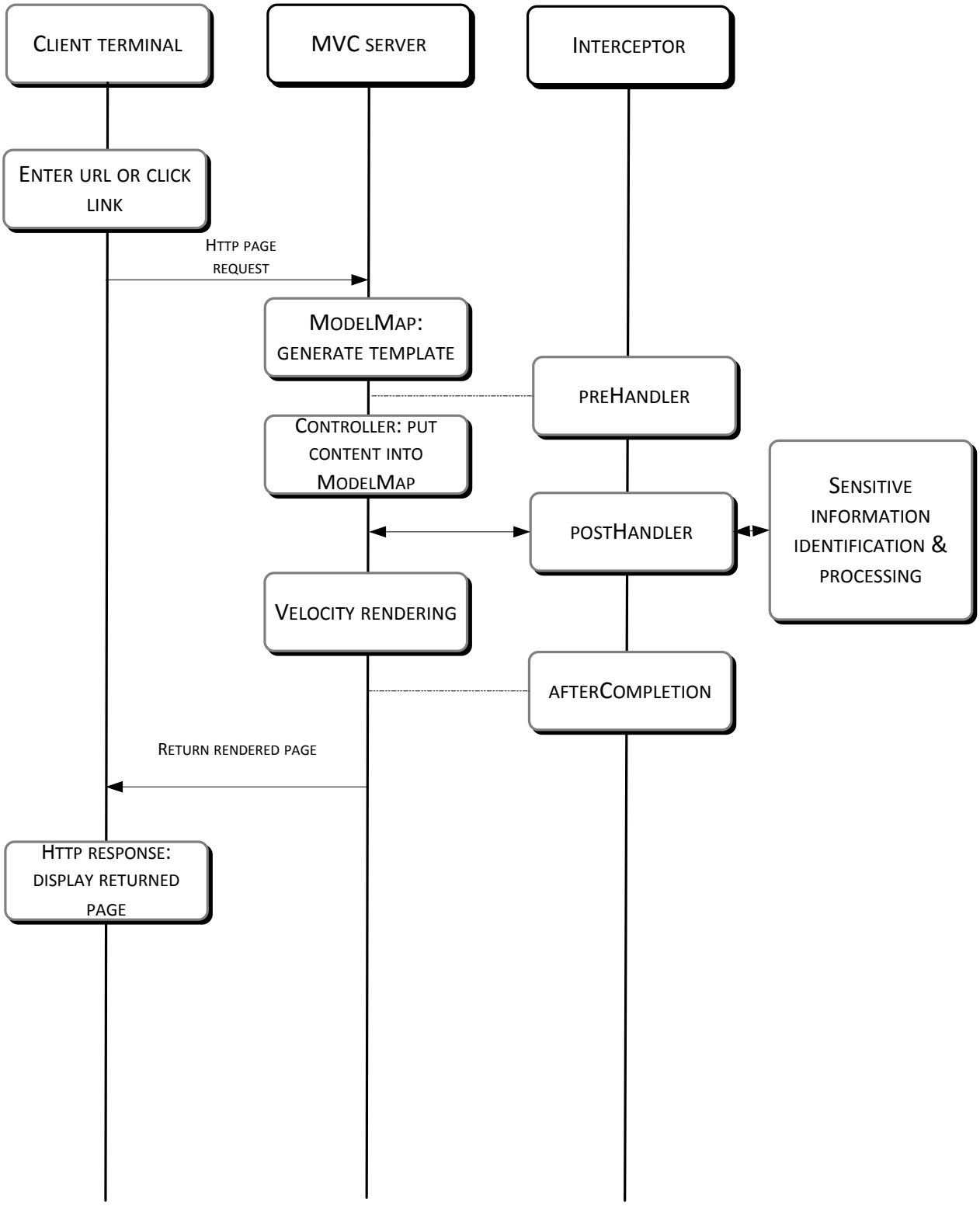
CLIENT TERMINAL
MVC SERVER
INTERCEPTOR
ENTER URL OR CLICK LINK
HTTP PAGE REQUEST
MODELMAP: GENERATE TEMPLATE
PREHANDLER
CONTROLLER: PUT CONTENT INTO MODELMAP
POSTHANDLER
SENSITIVE INFORMATION IDENTIFICATION & PROCESSING
VELOCITY RENDERING
AFTERCOMPLETION
RETURN RENDERED PAGE
HTTP RESPONSE: DISPLAY RETURNED PAGE

FIG. 3

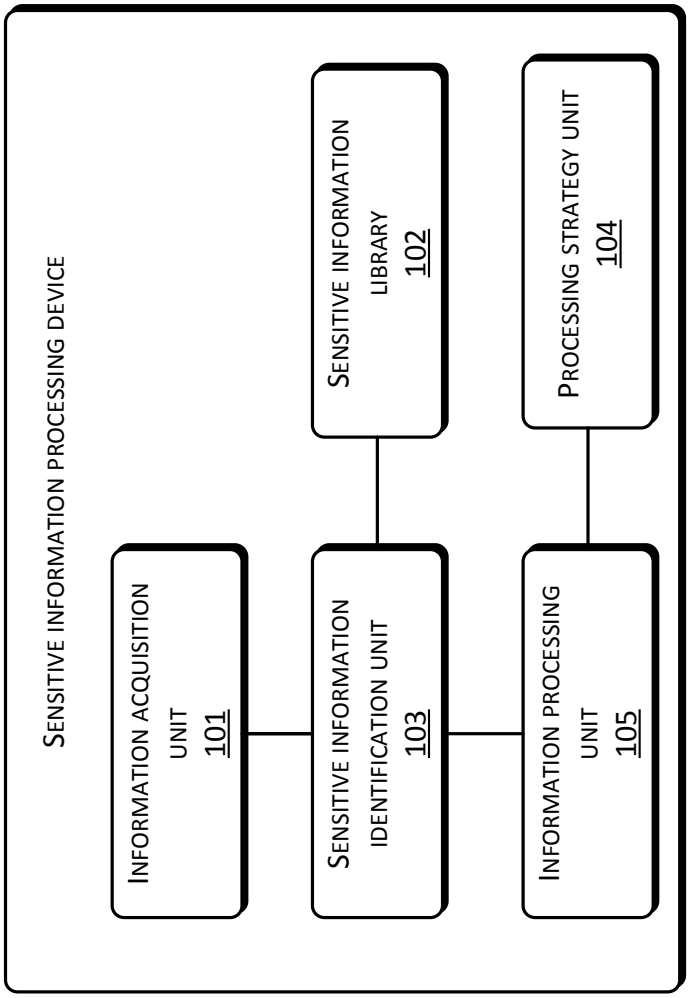
SENSITIVE INFORMATION PROCESSING DEVICE
INFORMATION ACQUISITION UNIT 101
SENSITIVE INFORMATION IDENTIFICATION UNIT 103
SENSITIVE INFORMATION LIBRARY 102
INFORMATION PROCESSING UNIT 105
PROCESSING STRATEGY UNIT 104

FIG. 4

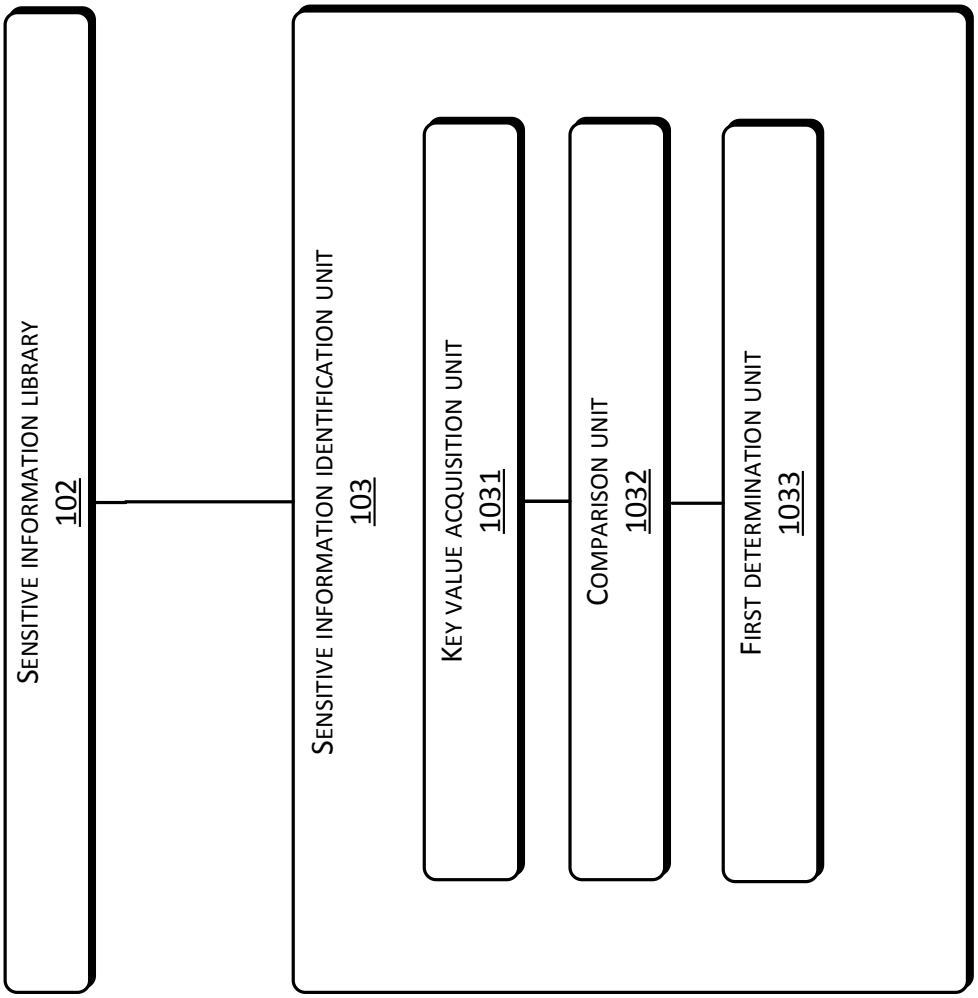
SENSITIVE INFORMATION LIBRARY
102
SENSITIVE INFORMATION IDENTIFICATION UNIT
103
KEY VALUE ACQUISITION UNIT
1031
COMPARISON UNIT
1032
FIRST DETERMINATION UNIT
1033

FIG. 5

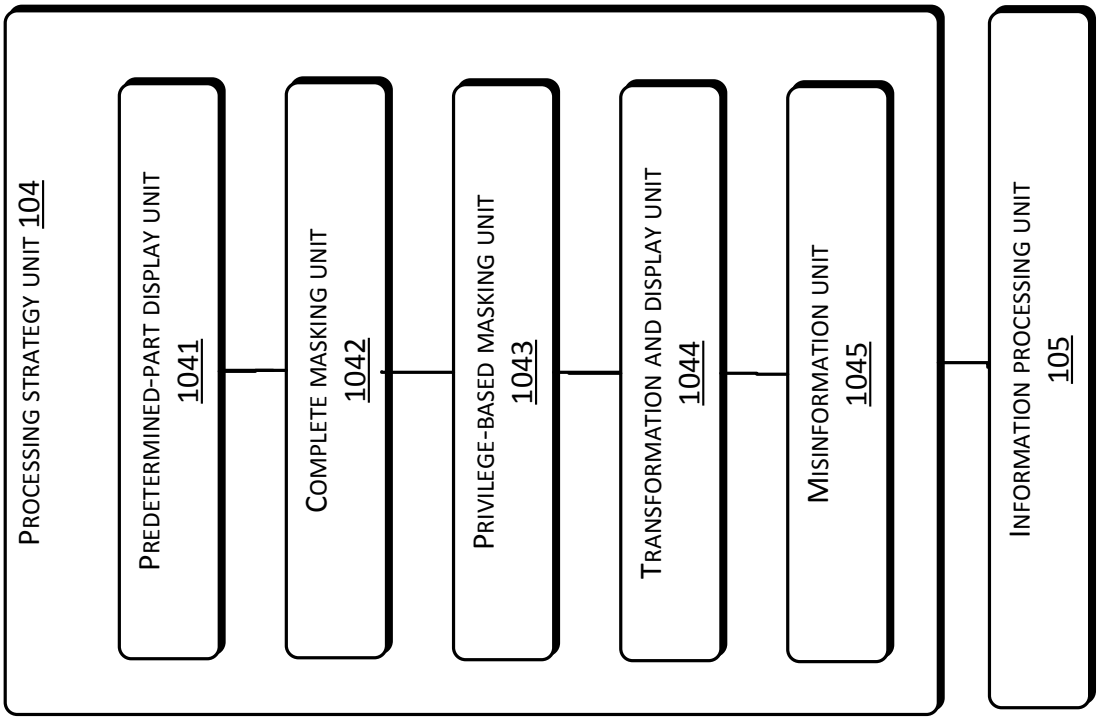
PROCESSING STRATEGY UNIT 104
PREDETERMINED-PART DISPLAY UNIT 1041
COMPLETE MASKING UNIT 1042
PRIVILEGE-BASED MASKING UNIT 1043
TRANSFORMATION AND DISPLAY UNIT 1044
MISINFORMATION UNIT 1045
INFORMATION PROCESSING UNIT 105

FIG. 6

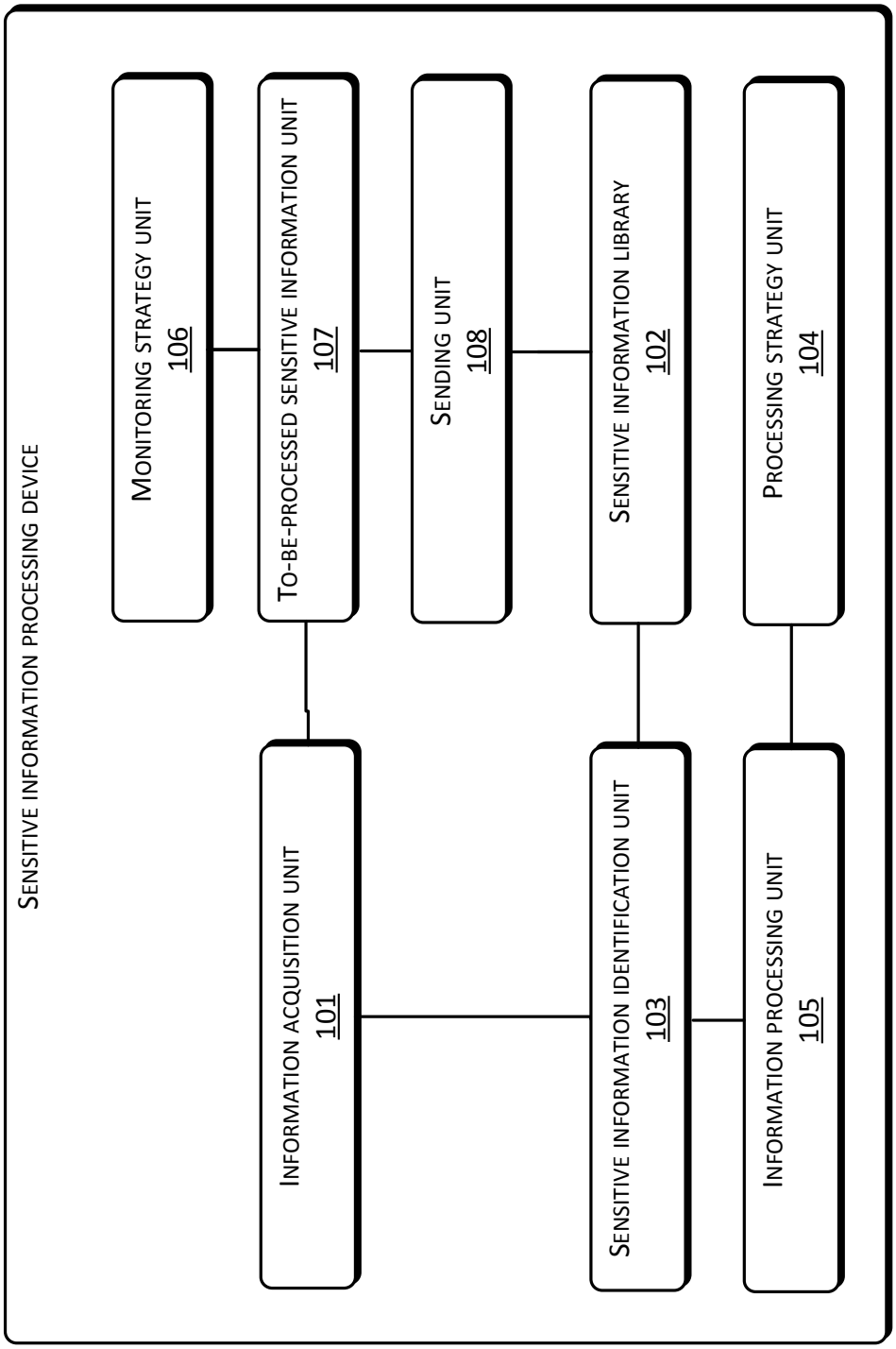
Sensitive information processing device
Monitoring strategy unit
106
To-be-processed sensitive information unit
107
Sending unit
108
Sensitive information library
102
Processing strategy unit
104
Information acquisition unit
101
Sensitive information identification unit
103
Information processing unit
105

FIG. 7

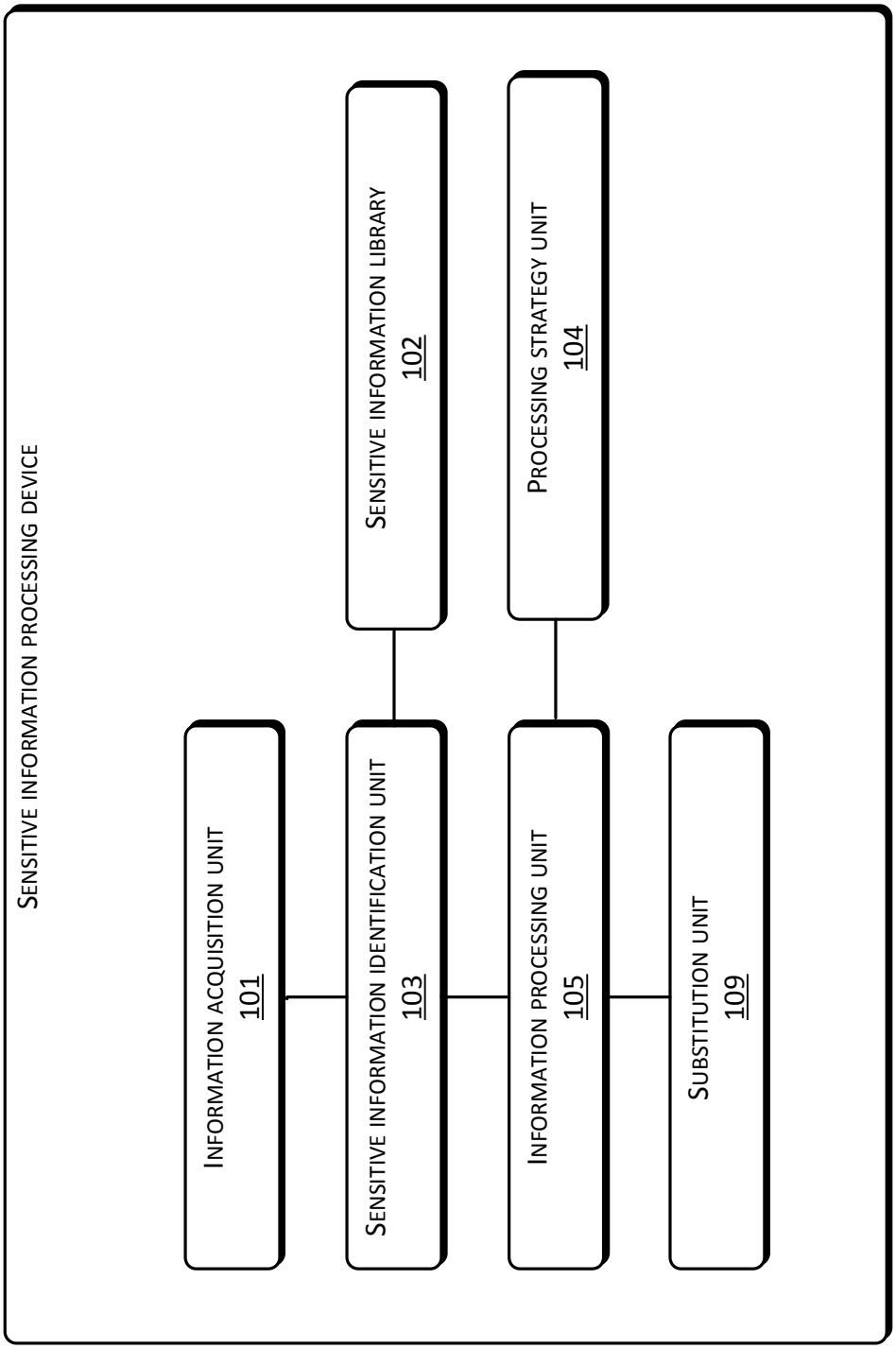
SENSITIVE INFORMATION PROCESSING DEVICE
INFORMATION ACQUISITION UNIT
101
SENSITIVE INFORMATION IDENTIFICATION UNIT
103
SENSITIVE INFORMATION LIBRARY
102
INFORMATION PROCESSING UNIT
105
PROCESSING STRATEGY UNIT
104
SUBSTITUTION UNIT
109

FIG. 8

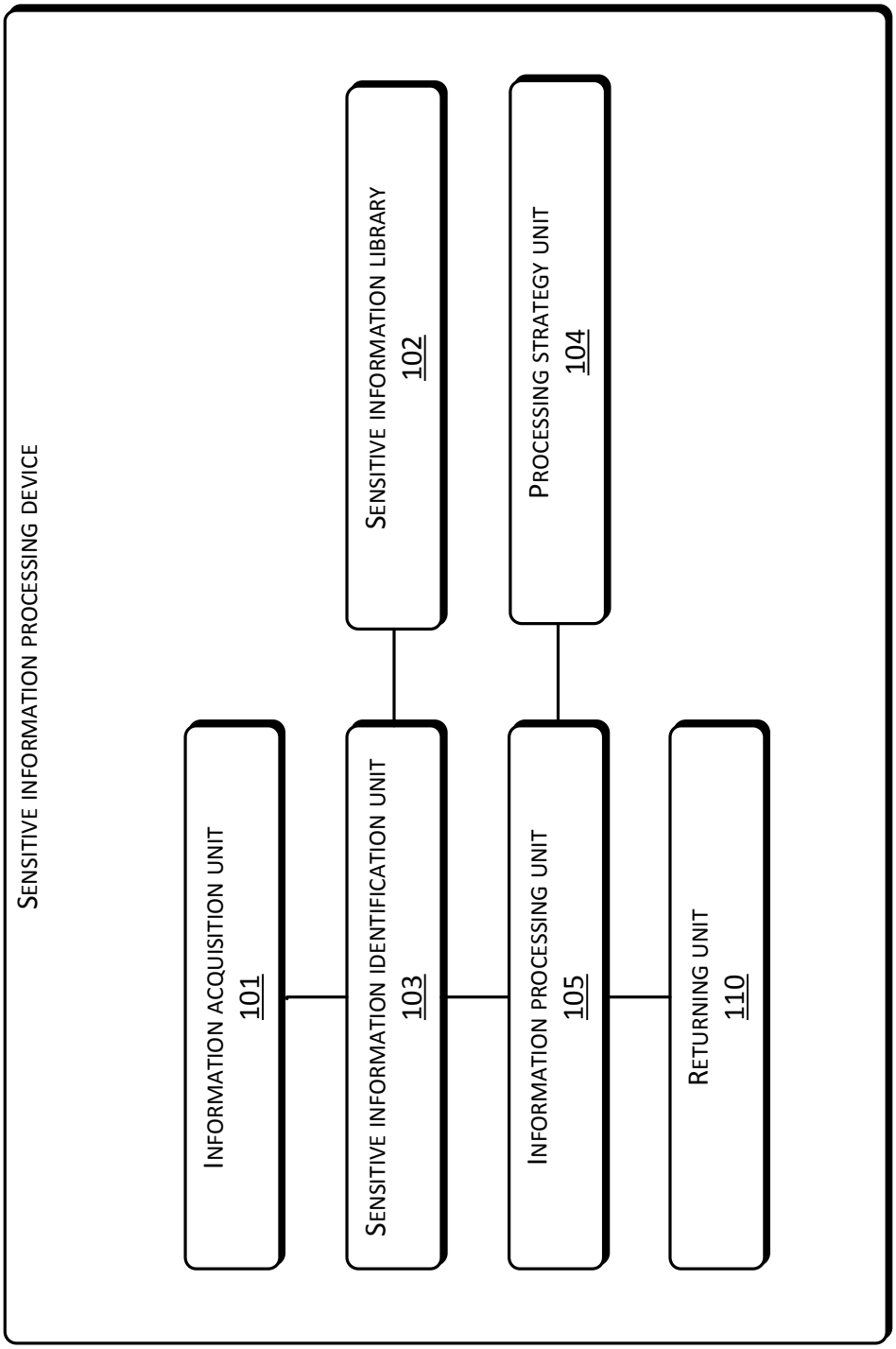
Sensitive information processing device
Information acquisition unit
101
Sensitive information identification unit
103
Sensitive information library
102
Information processing unit
105
Processing strategy unit
104
Returning unit
110

FIG. 9

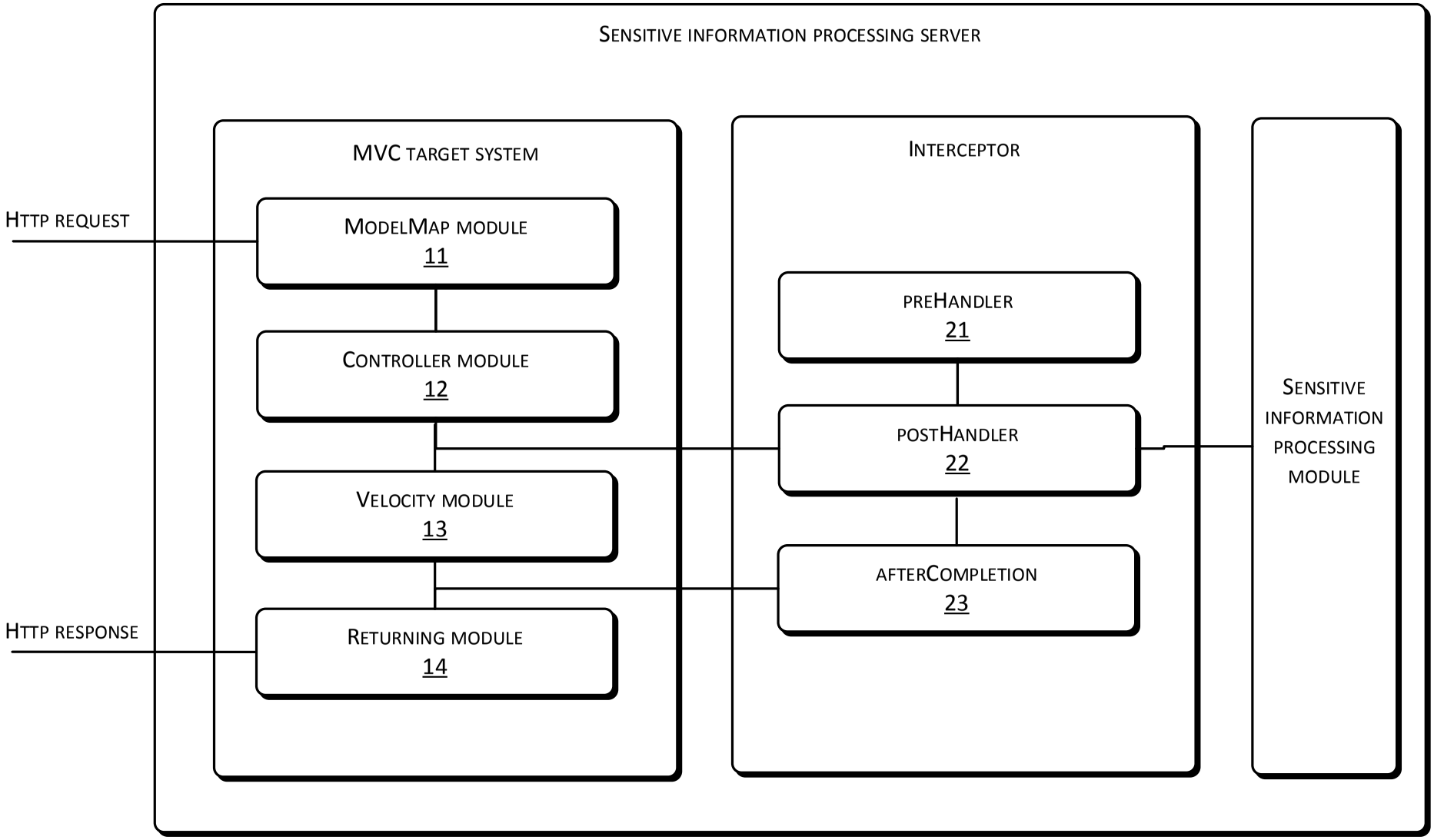
SENSITIVE INFORMATION PROCESSING SERVER
MVC TARGET SYSTEM
HTTP REQUEST
MODELMAP MODULE
11
CONTROLLER MODULE
12
VELOCITY MODULE
13
HTTP RESPONSE
RETURNING MODULE
14
INTERCEPTOR
PREHANDLER
21
POSTHANDLER
22
AFTERCOMPLETION
23
SENSITIVE INFORMATION PROCESSING MODULE

FIG. 10

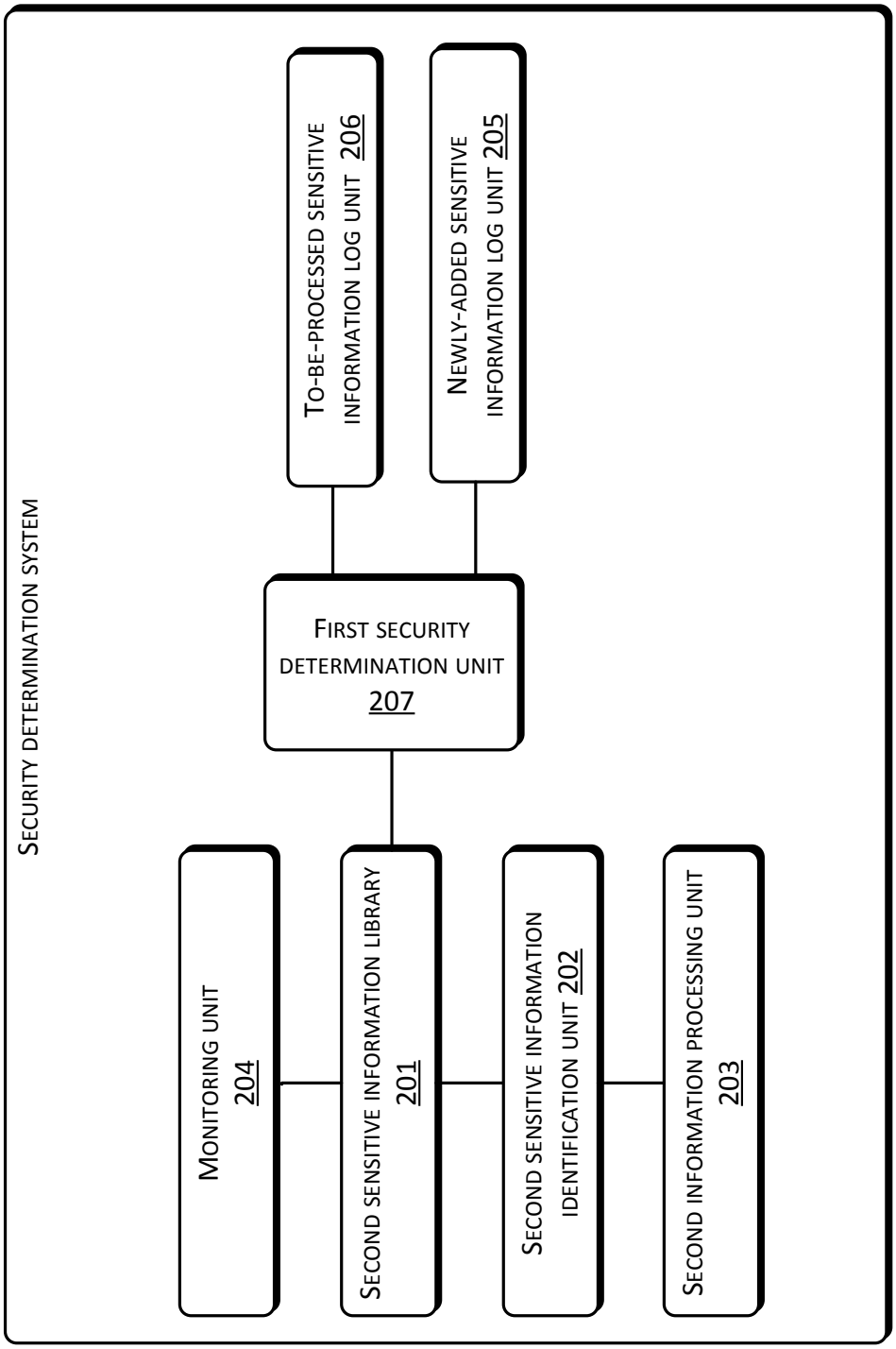
SECURITY DETERMINATION SYSTEM
MONITORING UNIT 204
SECOND SENSITIVE INFORMATION LIBRARY 201
SECOND SENSITIVE INFORMATION IDENTIFICATION UNIT 202
SECOND INFORMATION PROCESSING UNIT 203
FIRST SECURITY DETERMINATION UNIT 207
TO-BE-PROCESSED SENSITIVE INFORMATION LOG UNIT 206
NEWLY-ADDED SENSITIVE INFORMATION LOG UNIT 205

FIG. 11

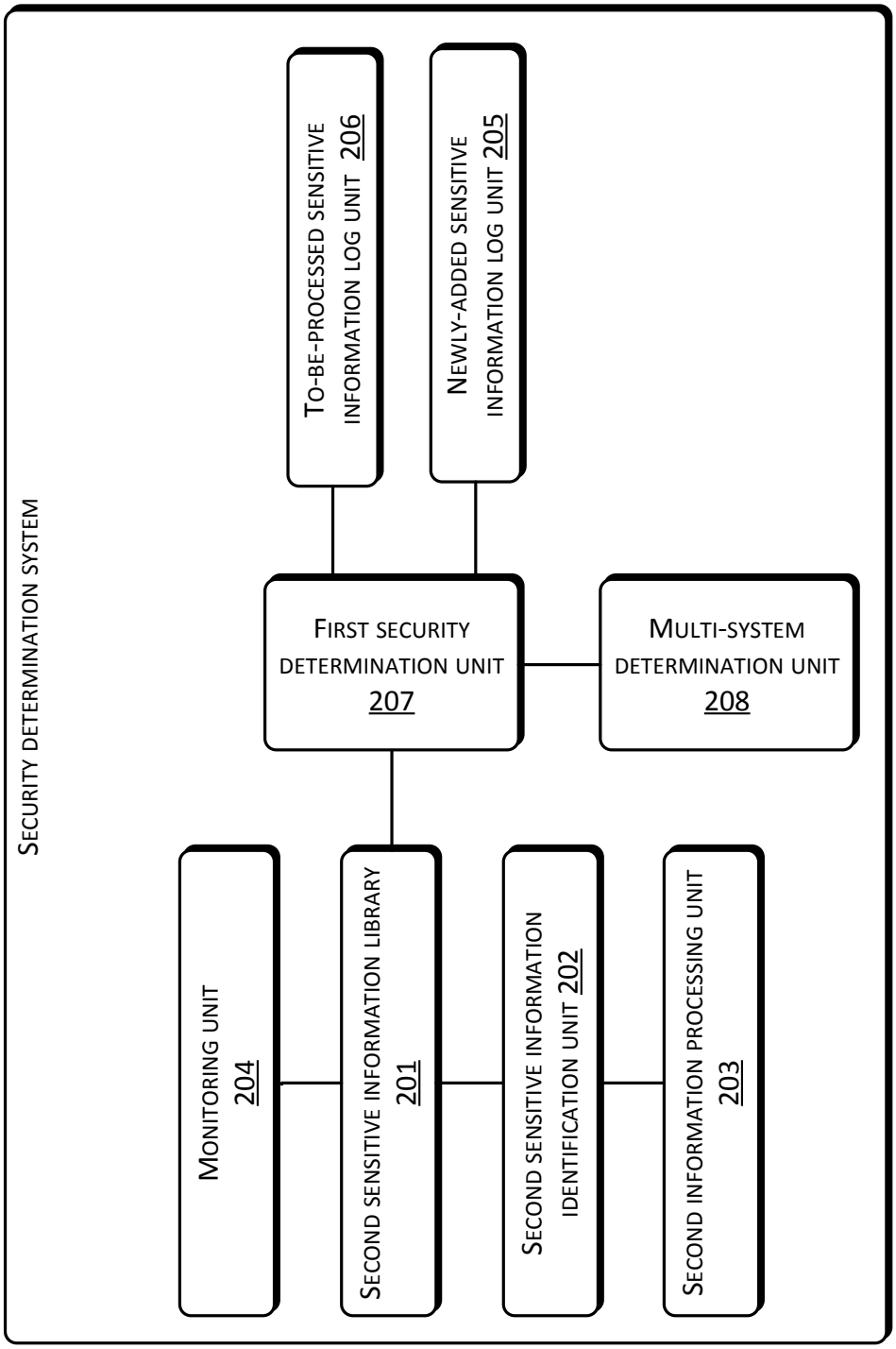
SECURITY DETERMINATION SYSTEM
MONITORING UNIT 204
SECOND SENSITIVE INFORMATION LIBRARY 201
SECOND SENSITIVE INFORMATION IDENTIFICATION UNIT 202
SECOND INFORMATION PROCESSING UNIT 203
FIRST SECURITY DETERMINATION UNIT 207
MULTI-SYSTEM DETERMINATION UNIT 208
TO-BE-PROCESSED SENSITIVE INFORMATION LOG UNIT 206
NEWLY-ADDED SENSITIVE INFORMATION LOG UNIT 205

FIG. 12