Software Architecture

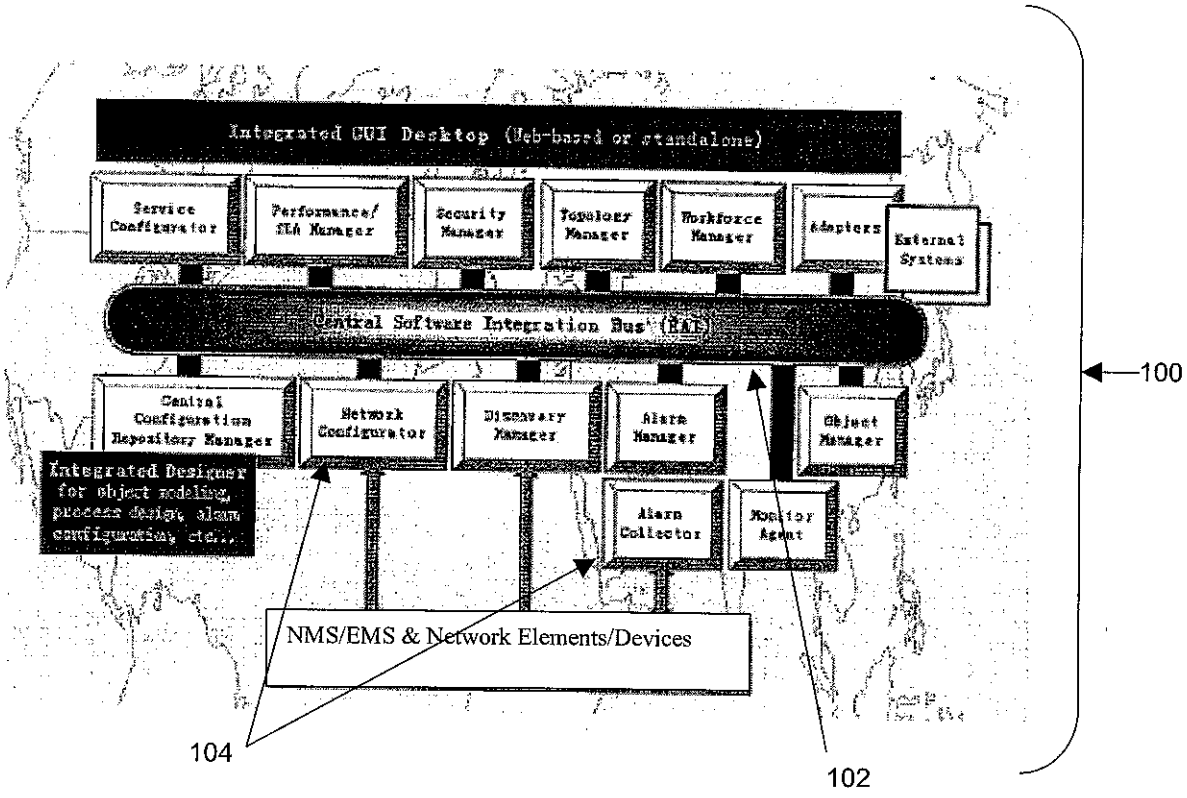


Fig.1

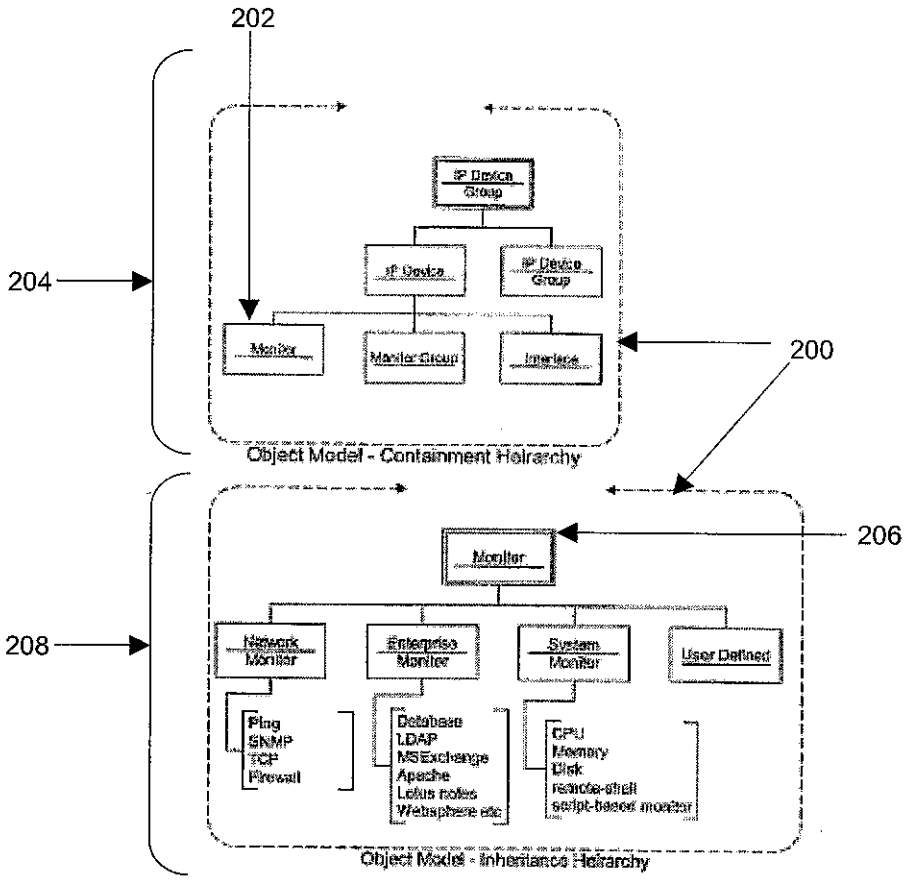

202
204
IP Device Group
IP Device
IP Device Group
Monitor
Monitor Group
Interface
200
Object Model - Containment Hierarchy
206
208
Monitor
Network Monitor
Enterprise Monitor
System Monitor
User Defined
Ping
SNMP
TCP
Firewall
Database
LDAP
MSExchange
Apache
Lotus notes
Websphere etc
CPU
Memory
Disk
remote-shell
script-based monitor
Object Model - Inheritance Hierarchy

Fig.2

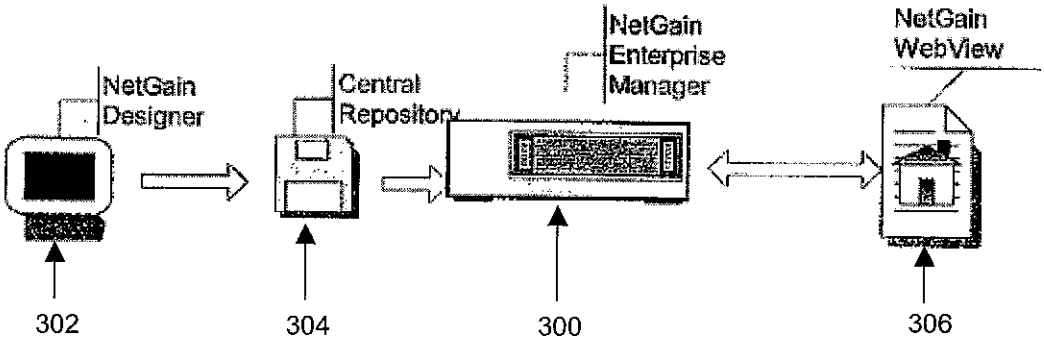

NetGain
Designer
Central
Repository
NetGain
Enterprise
Manager
NetGain
WebView
302
304
300
306

Fig.3

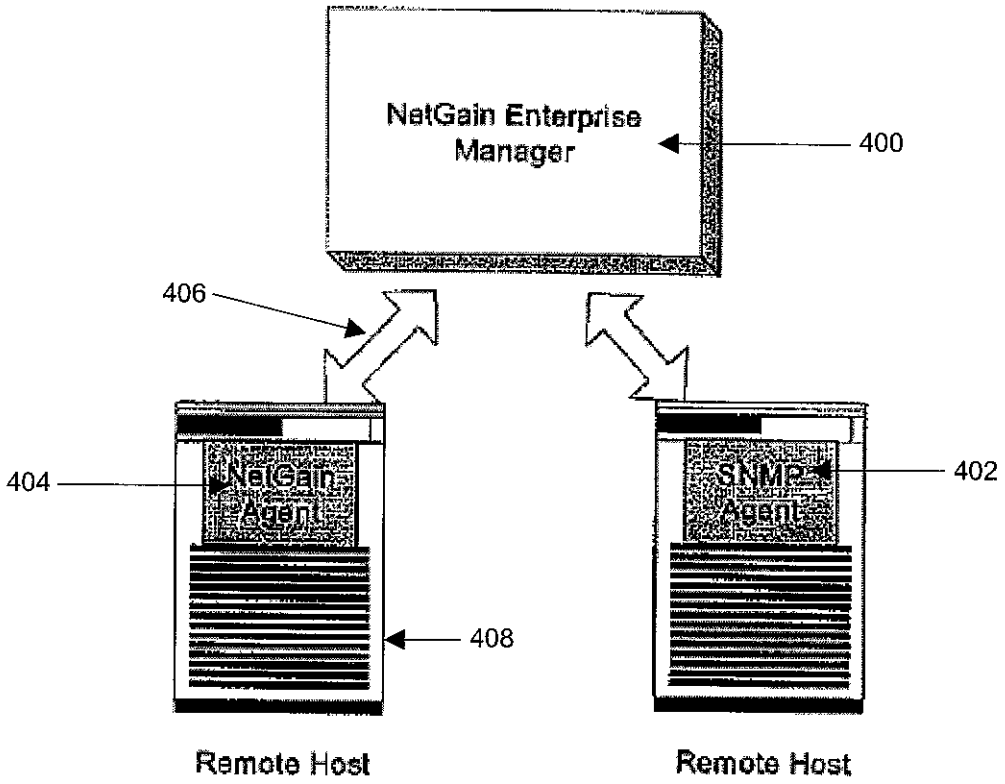

NetGain Enterprise Manager
400
406
404
NetGain Agent
SNMP Agent
402
408
Remote Host
Remote Host

Fig.4

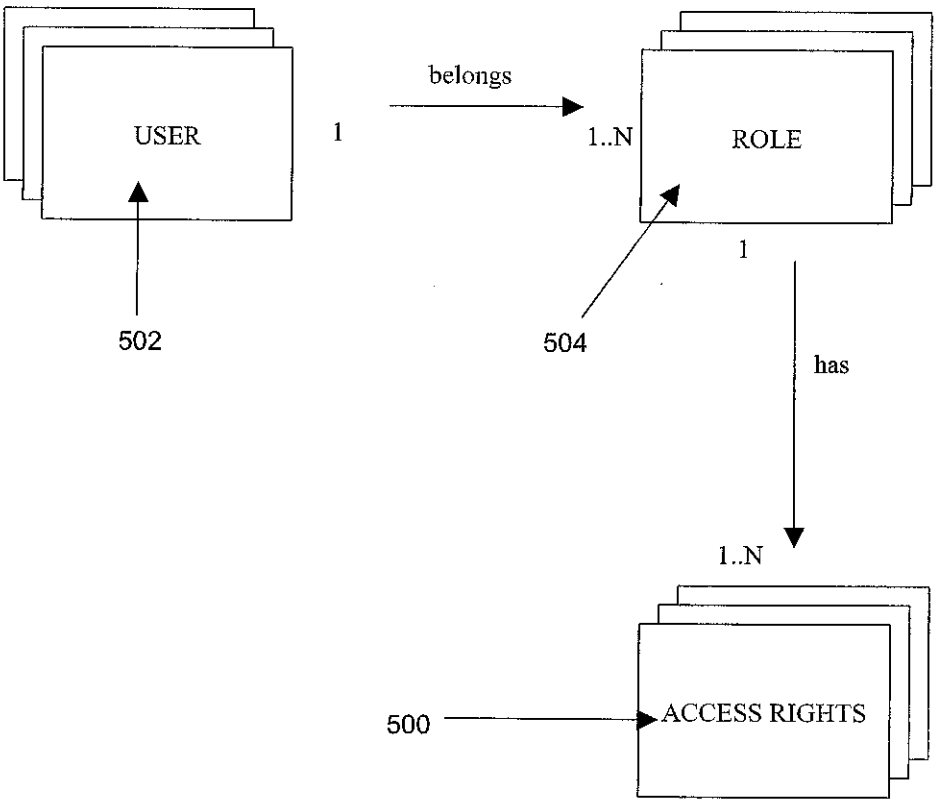


Fig.5

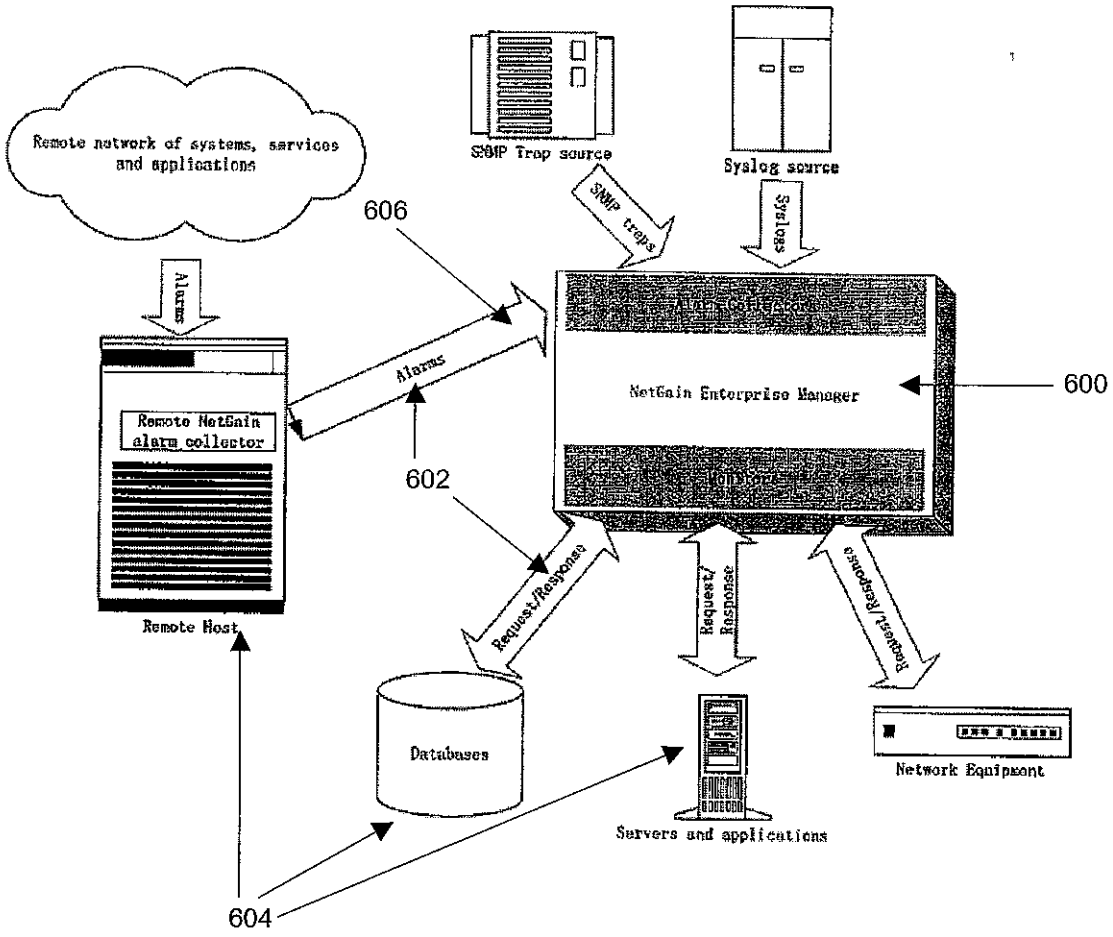
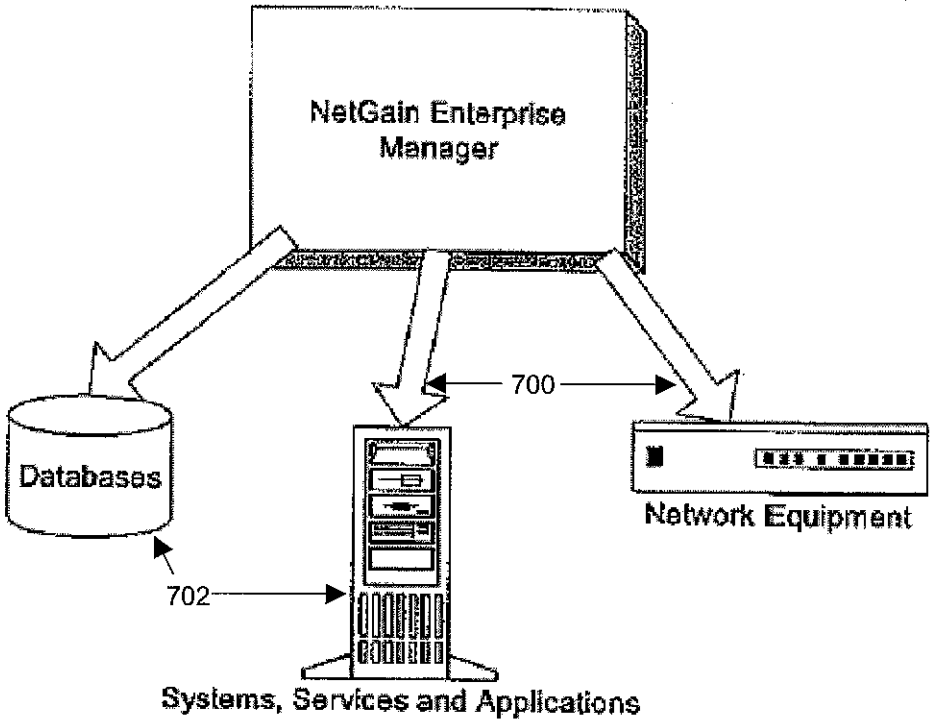
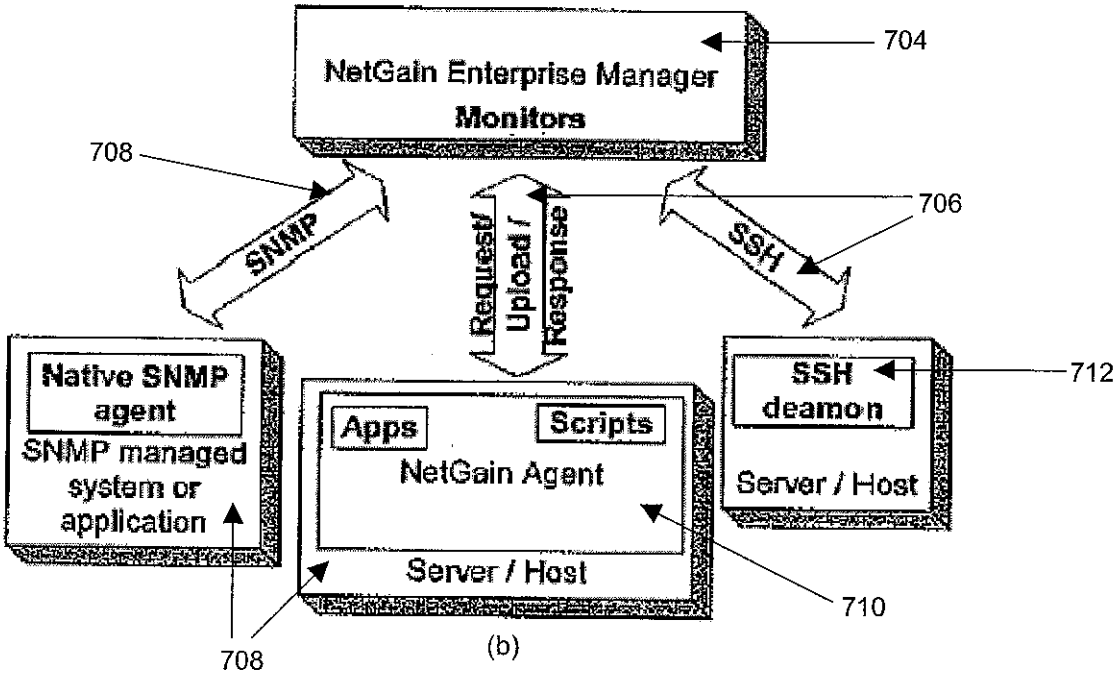

Remote network of systems, services and applications
SNMP Trap source
Syslog source
SNMP traps
Syslogs
606
Alarms
Remote NetGain alarm collector
Alarms
NetGain Enterprise Manager
600
602
Remote Host
Request/Response
Request/Response
Request/Response
Databases
Network Equipment
Servers and applications
604

Fig.6


NetGain Enterprise Manager
700
Databases
Network Equipment
702
Systems, Services and Applications

(a)


NetGain Enterprise Manager
Monitors
704
708
706
SNMP
Request/ Upload / Response
SSH
Native SNMP agent
SNMP managed system or application
Apps
Scripts
NetGain Agent
Server / Host
SSH deamon
712
Server / Host
710
708

(b)

Fig.7

Auto Discovery

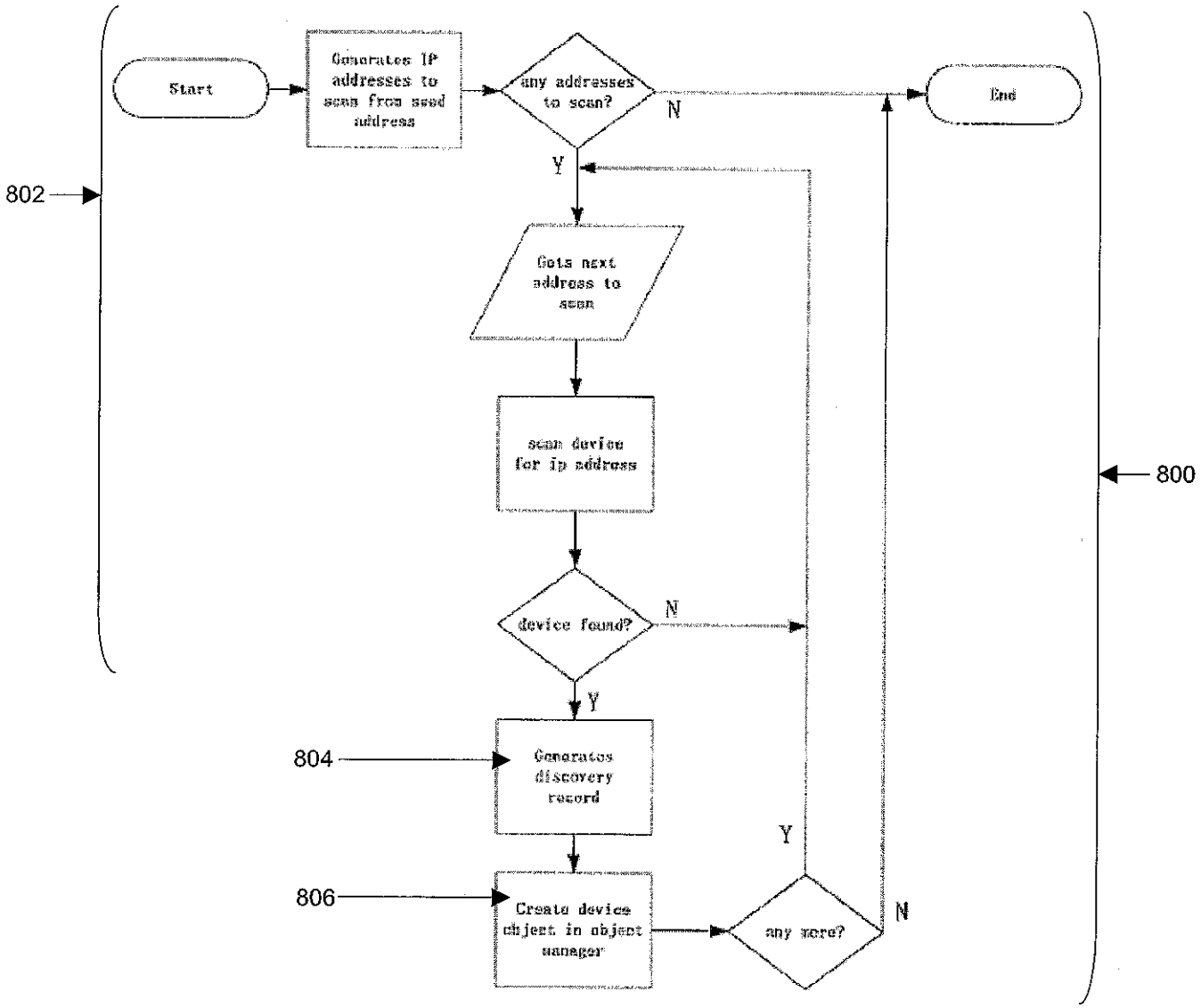


Fig.8

Network Monitoring

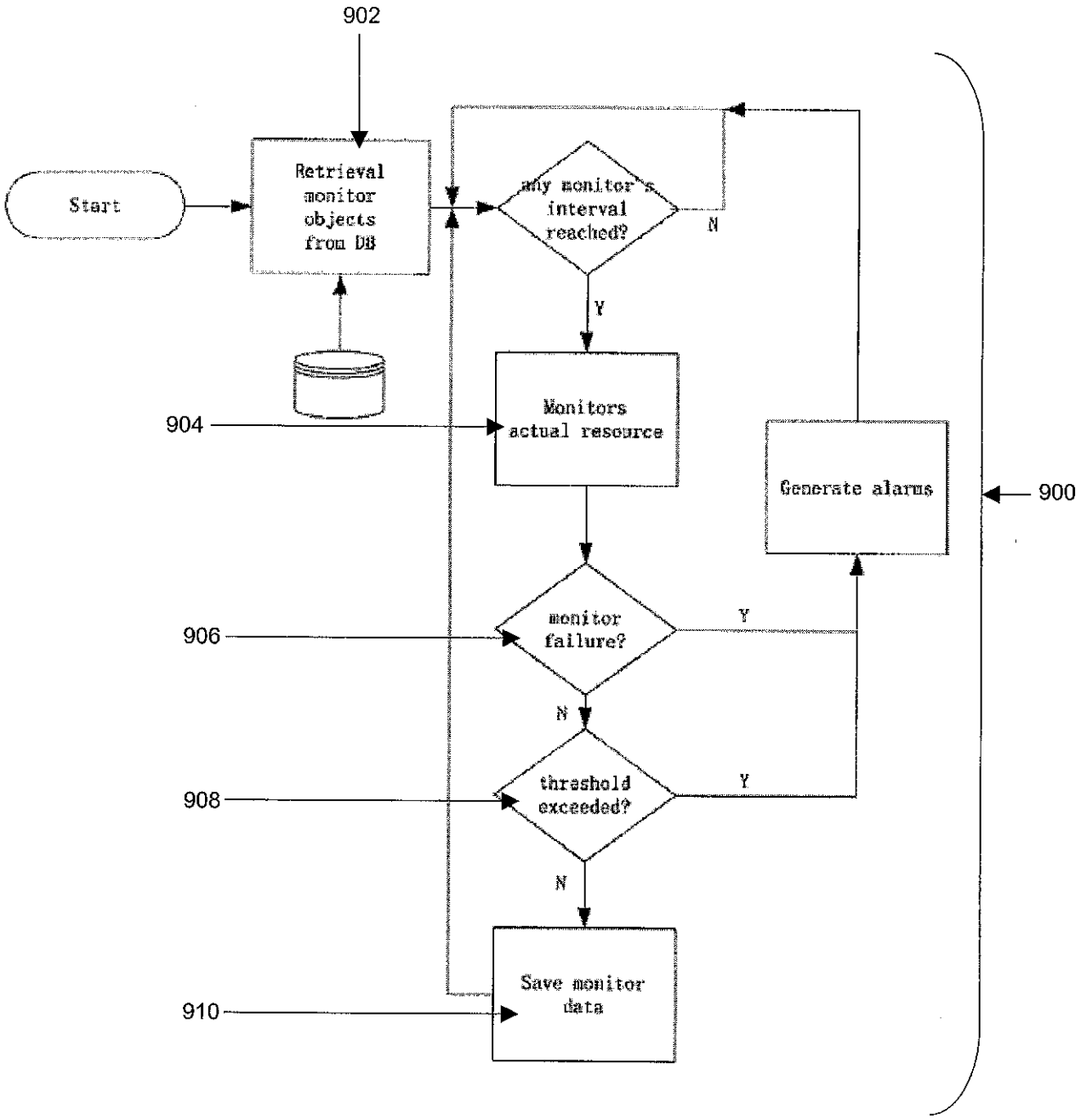


Fig.9

Alarm Management

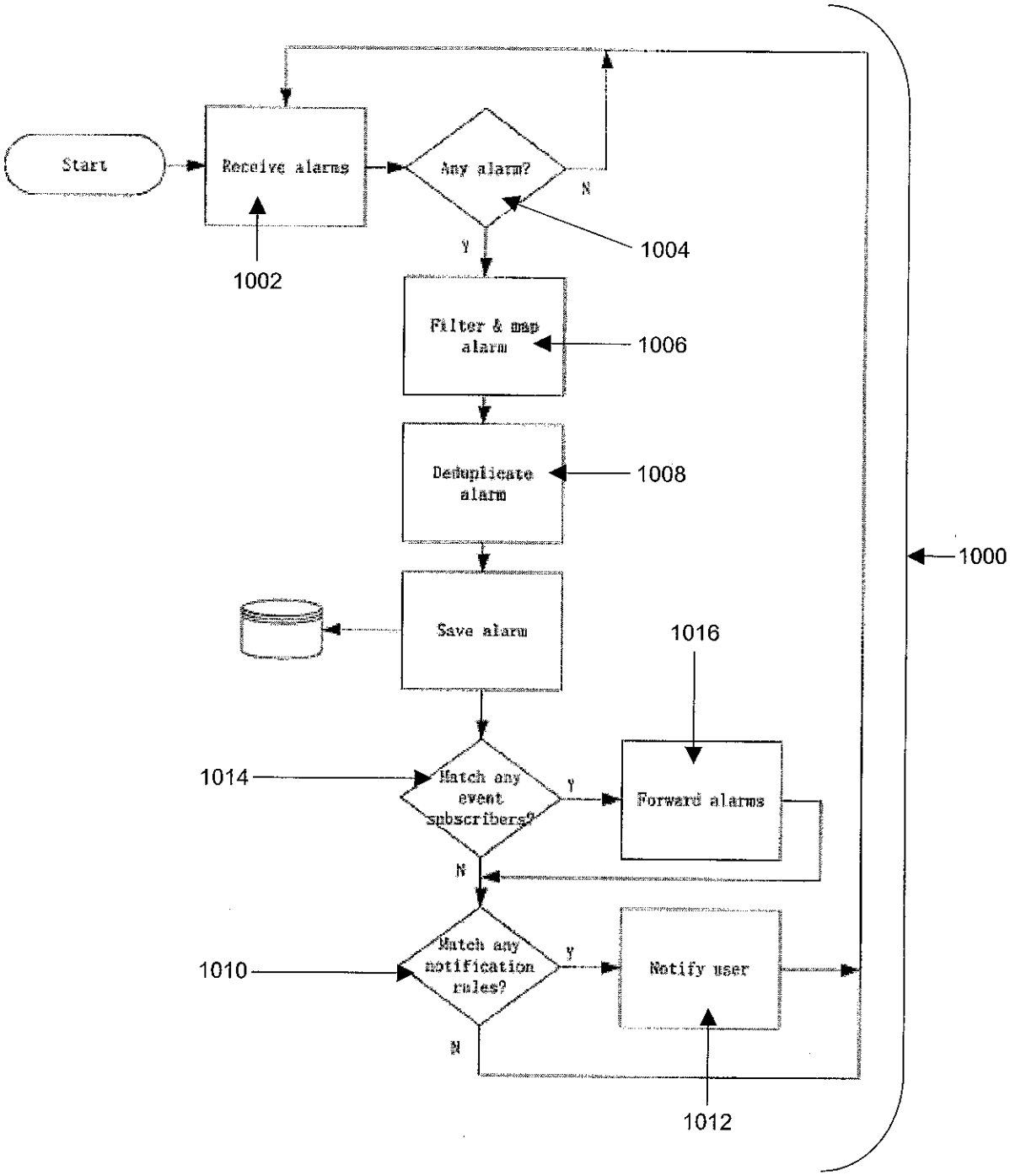


Fig.10

Report Generation

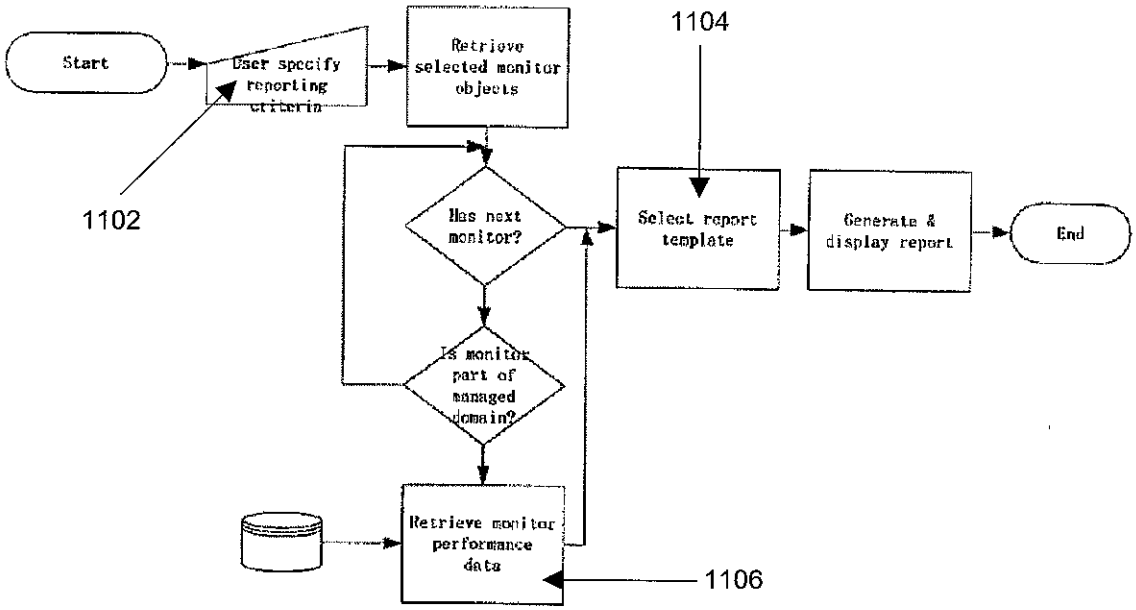


Fig.11

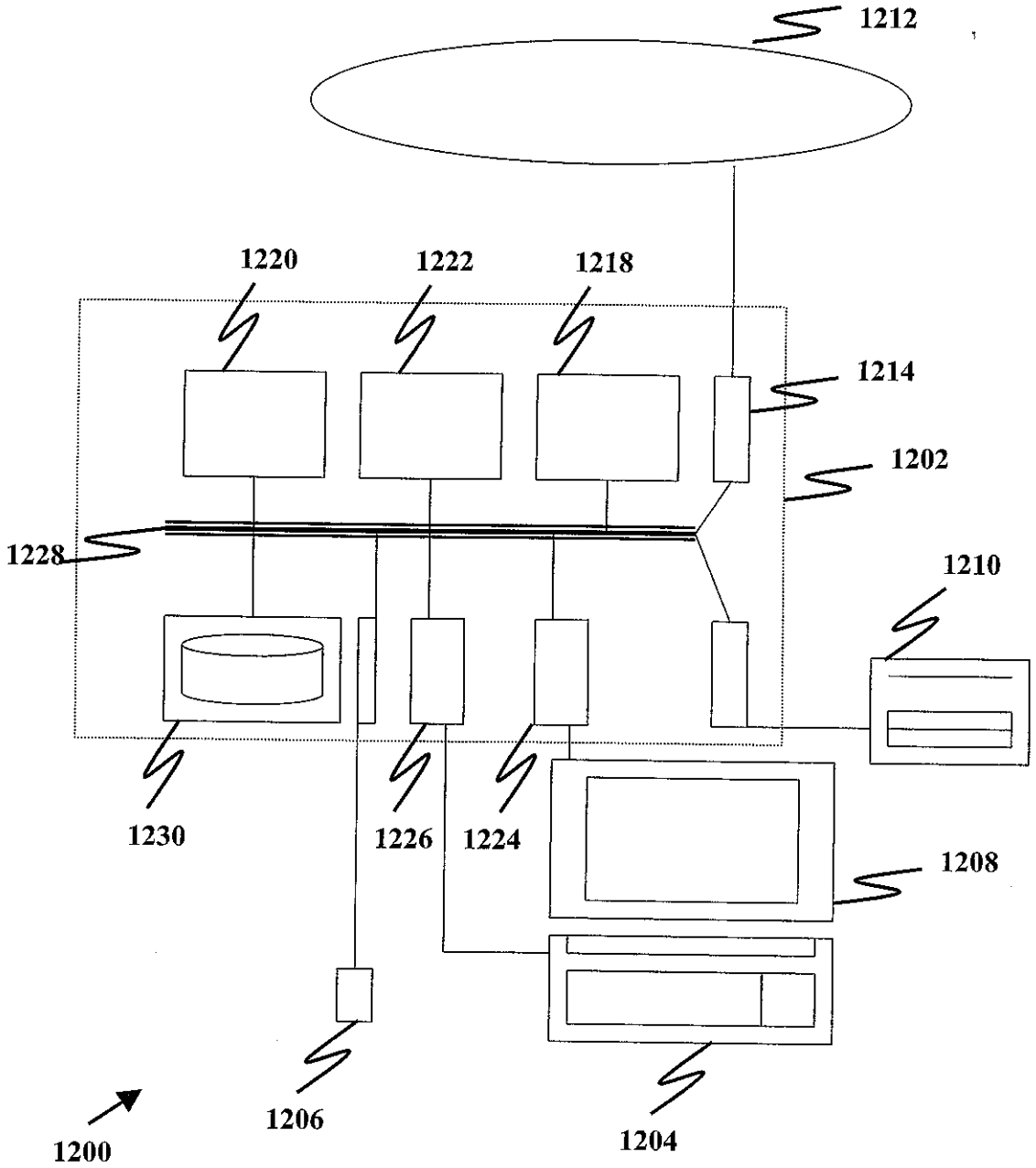

1212
1220
1222
1218
1214
1202
1228
1210
1230
1226
1224
1208
1206
1204
1200

Fig. 12

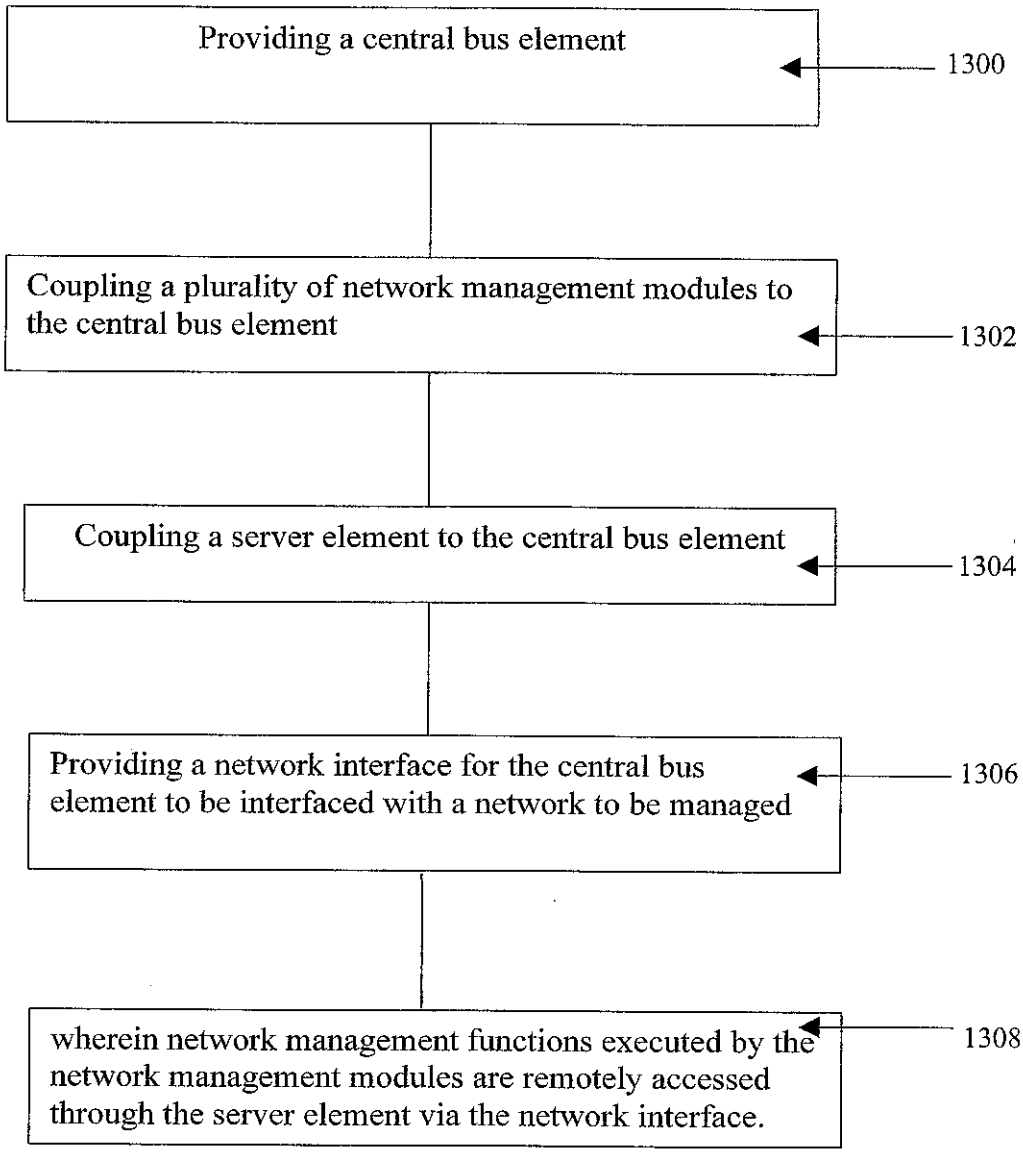

Providing a central bus element
1300
Coupling a plurality of network management modules to the central bus element
1302
Coupling a server element to the central bus element
1304
Providing a network interface for the central bus element to be interfaced with a network to be managed
1306
wherein network management functions executed by the network management modules are remotely accessed through the server element via the network interface.
1308

Fig.13