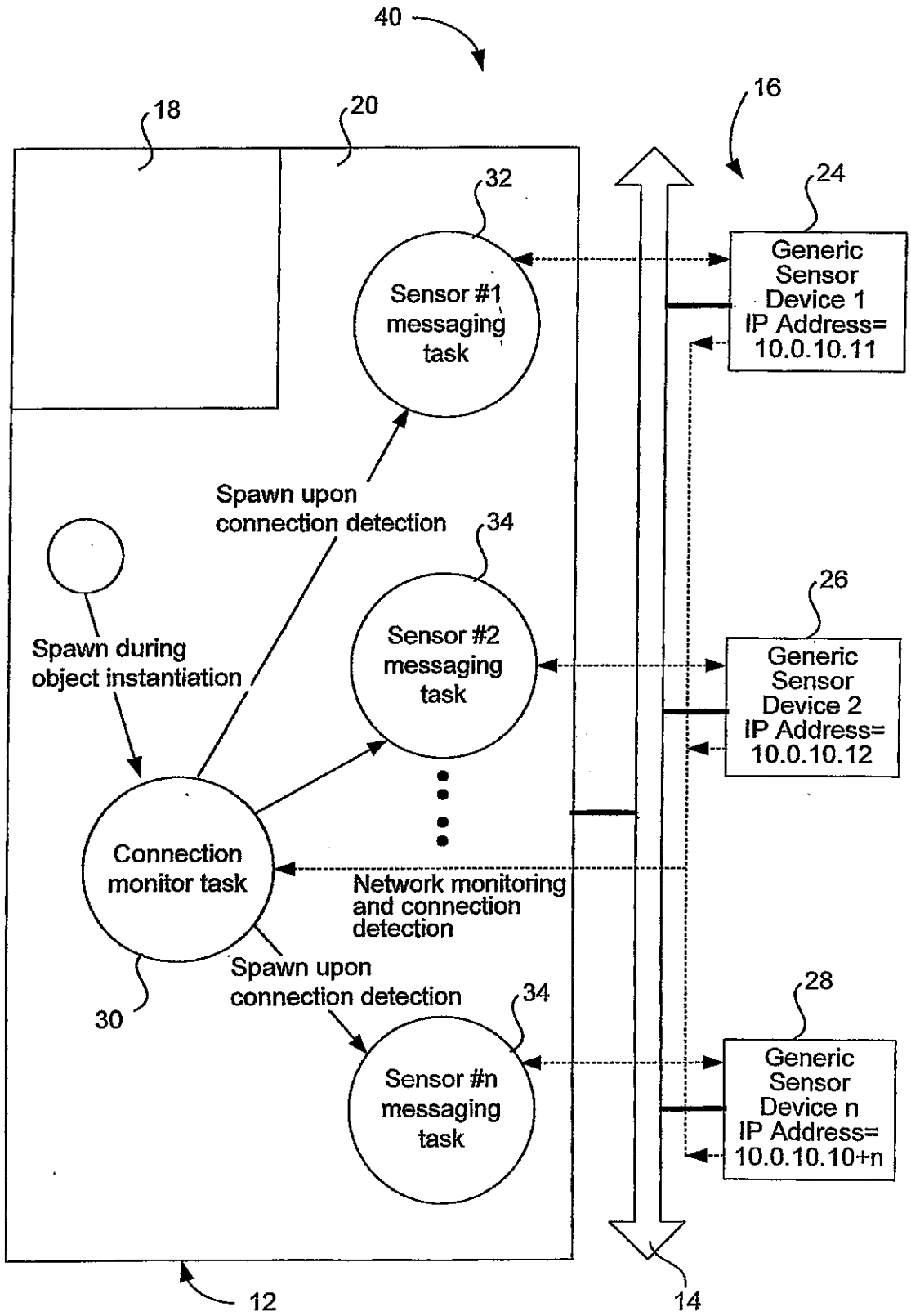

40
18
20
16
32
24
Sensor #1 messaging task
Generic Sensor Device 1 IP Address= 10.0.10.11
Spawn upon connection detection
34
26
Spawn during object instantiation
Sensor #2 messaging task
Generic Sensor Device 2 IP Address= 10.0.10.12
Connection monitor task
Network monitoring and connection detection
Spawn upon connection detection
34
28
30
Sensor #n messaging task
Generic Sensor Device n IP Address= 10.0.10.10+n
12
14

FIG. 1

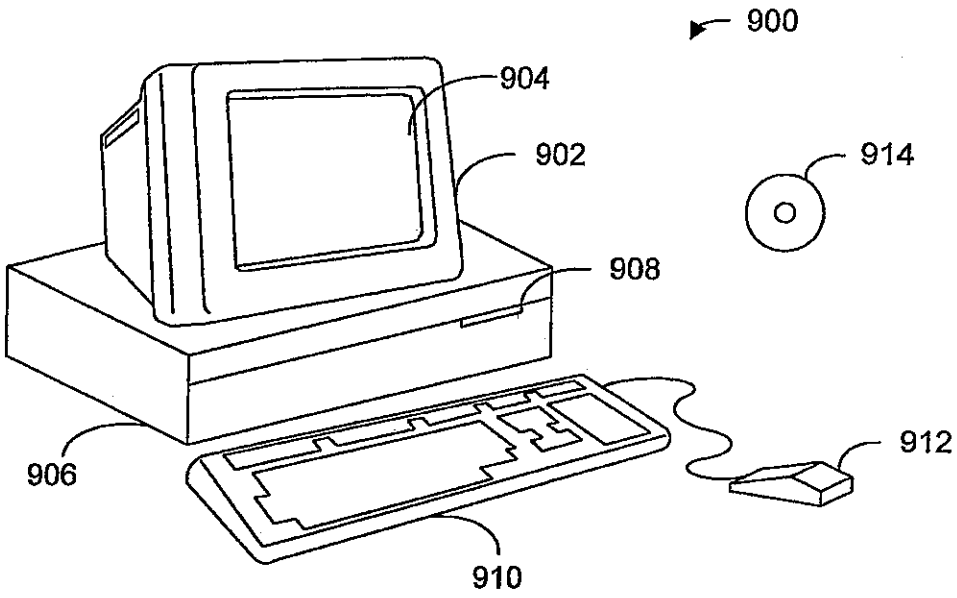

900
904
902
914
908
912
906
910

FIG. 2A

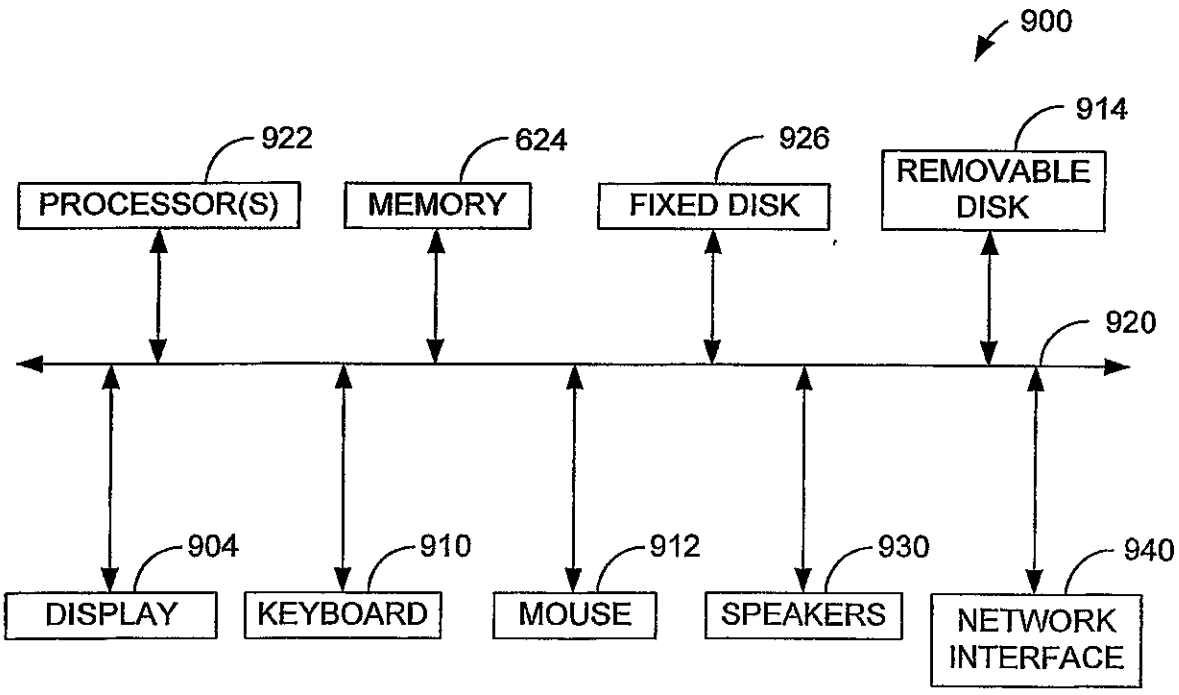

900
914
922
624
926
PROCESSOR(S)
MEMORY
FIXED DISK
REMOVABLE DISK
920
904
910
912
930
940
DISPLAY
KEYBOARD
MOUSE
SPEAKERS
NETWORK INTERFACE

FIG. 2B

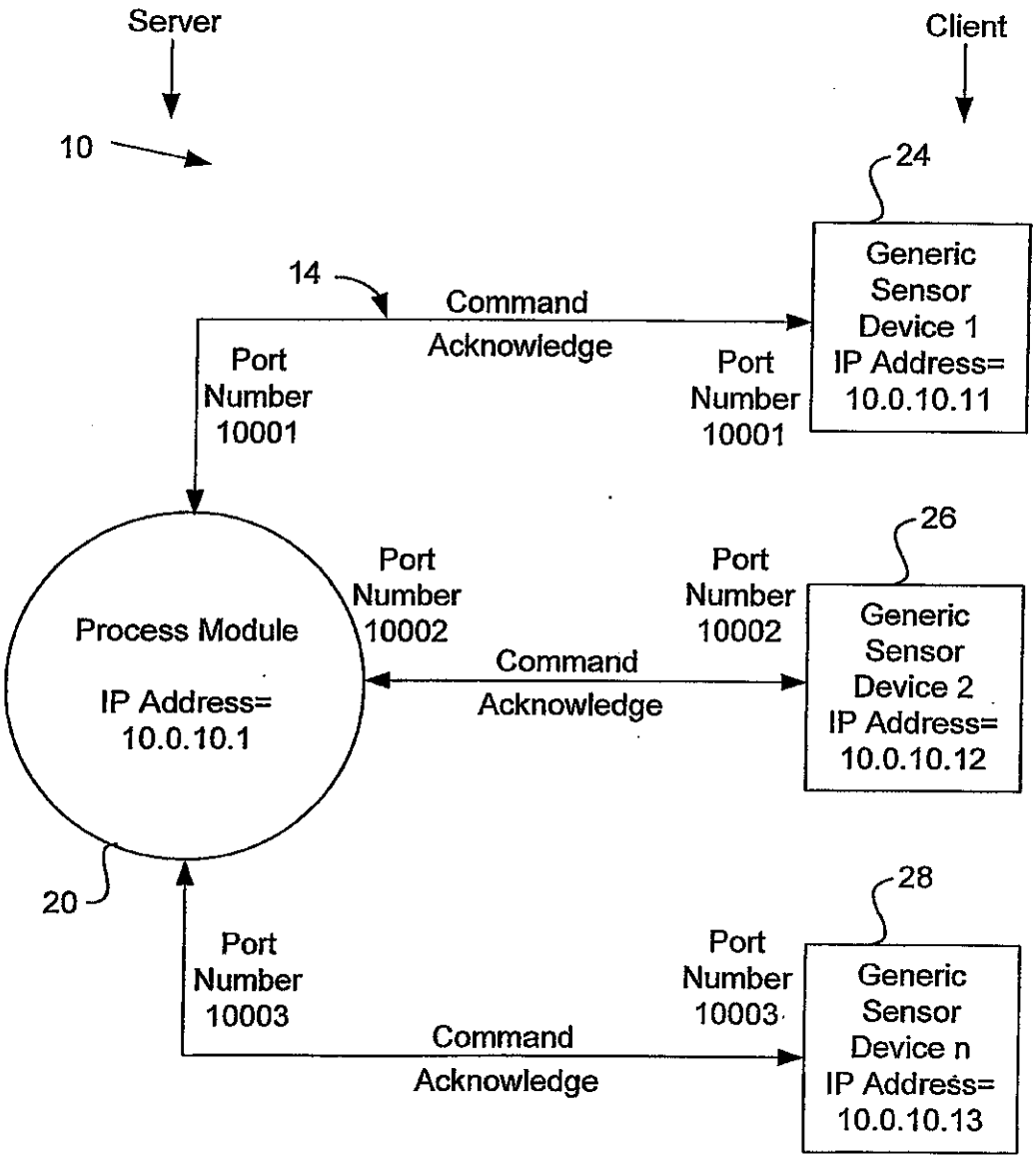

Server
Client
10
24
Generic Sensor Device 1 IP Address= 10.0.10.11
14
Command
Acknowledge
Port Number 10001
Port Number 10001
Process Module
IP Address= 10.0.10.1
Port Number 10002
Port Number 10002
26
Generic Sensor Device 2 IP Address= 10.0.10.12
Command
Acknowledge
20
28
Port Number 10003
Port Number 10003
Generic Sensor Device n IP Address= 10.0.10.13
Command
Acknowledge

FIG. 3

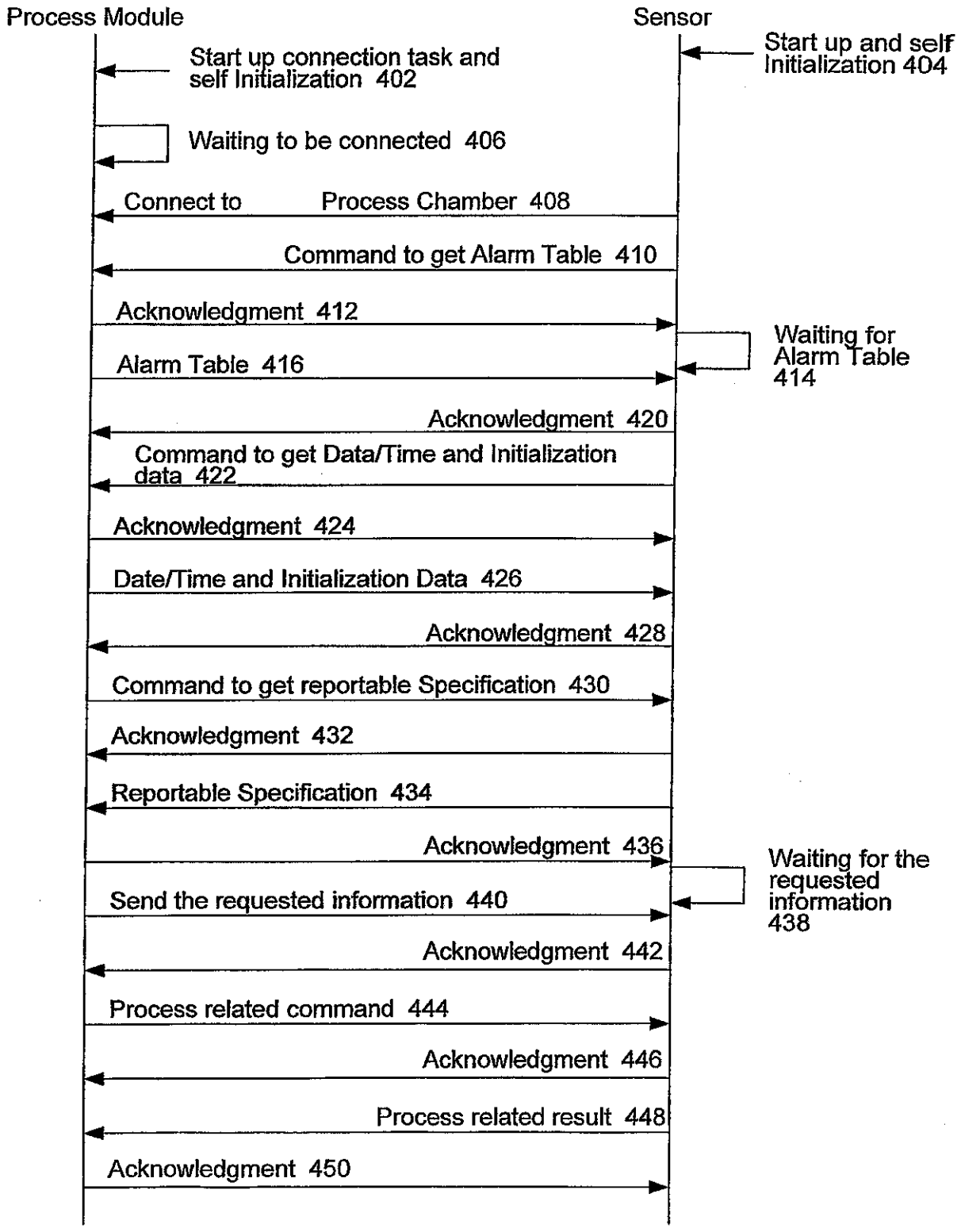

Process Module
Sensor
Start up connection task and self Initialization 402
Start up and self Initialization 404
Waiting to be connected 406
Connect to Process Chamber 408
Command to get Alarm Table 410
Acknowledgment 412
Waiting for Alarm Table 414
Alarm Table 416
Acknowledgment 420
Command to get Data/Time and Initialization data 422
Acknowledgment 424
Date/Time and Initialization Data 426
Acknowledgment 428
Command to get reportable Specification 430
Acknowledgment 432
Reportable Specification 434
Acknowledgment 436
Waiting for the requested information 438
Send the requested information 440
Acknowledgment 442
Process related command 444
Acknowledgment 446
Process related result 448
Acknowledgment 450

FIG. 4