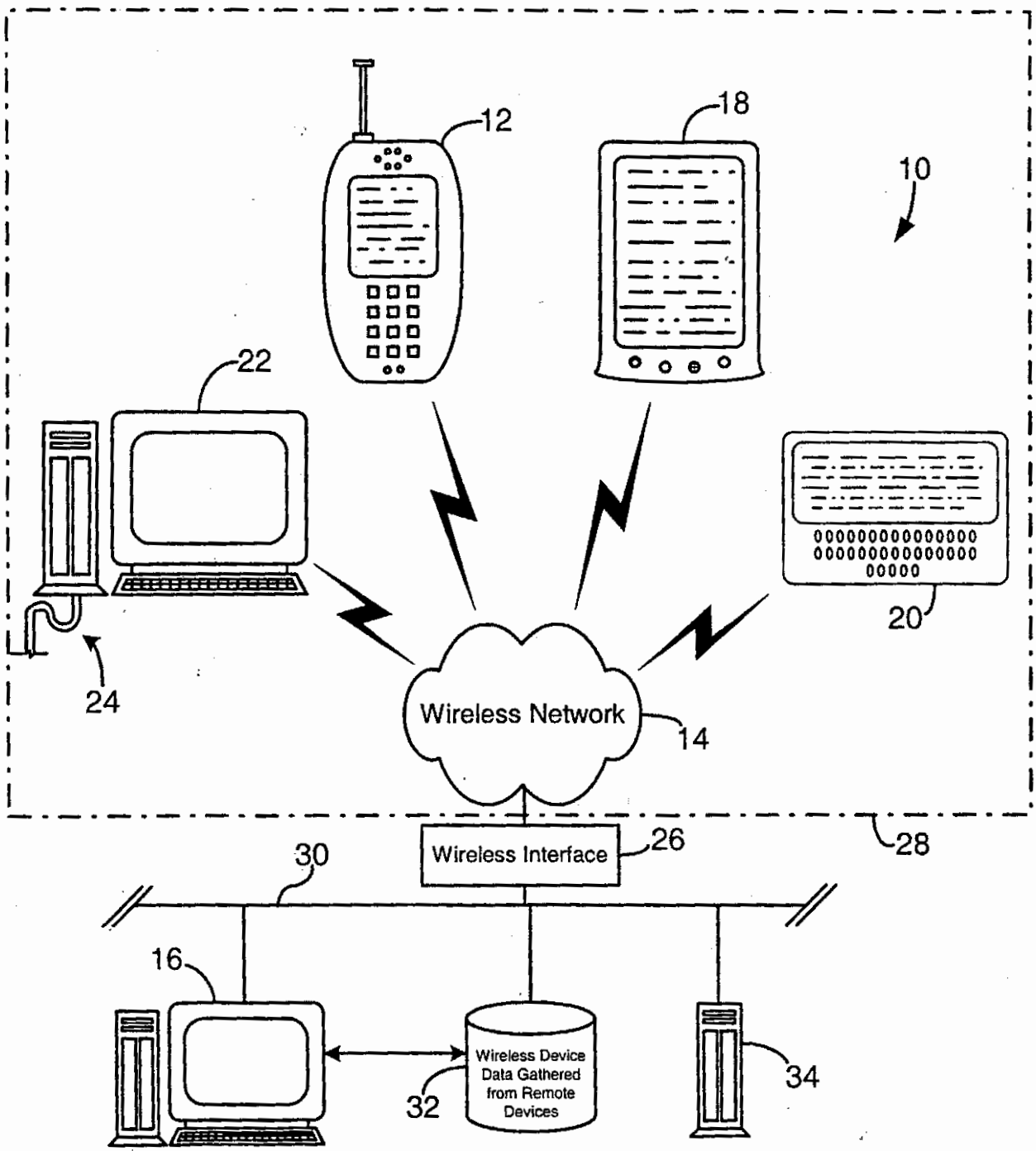
12
18
10
22
20
24
Wireless Network
14
28
Wireless Interface
26
30
16
Wireless Device Data Gathered from Remote Devices
32
34

Fig. 1

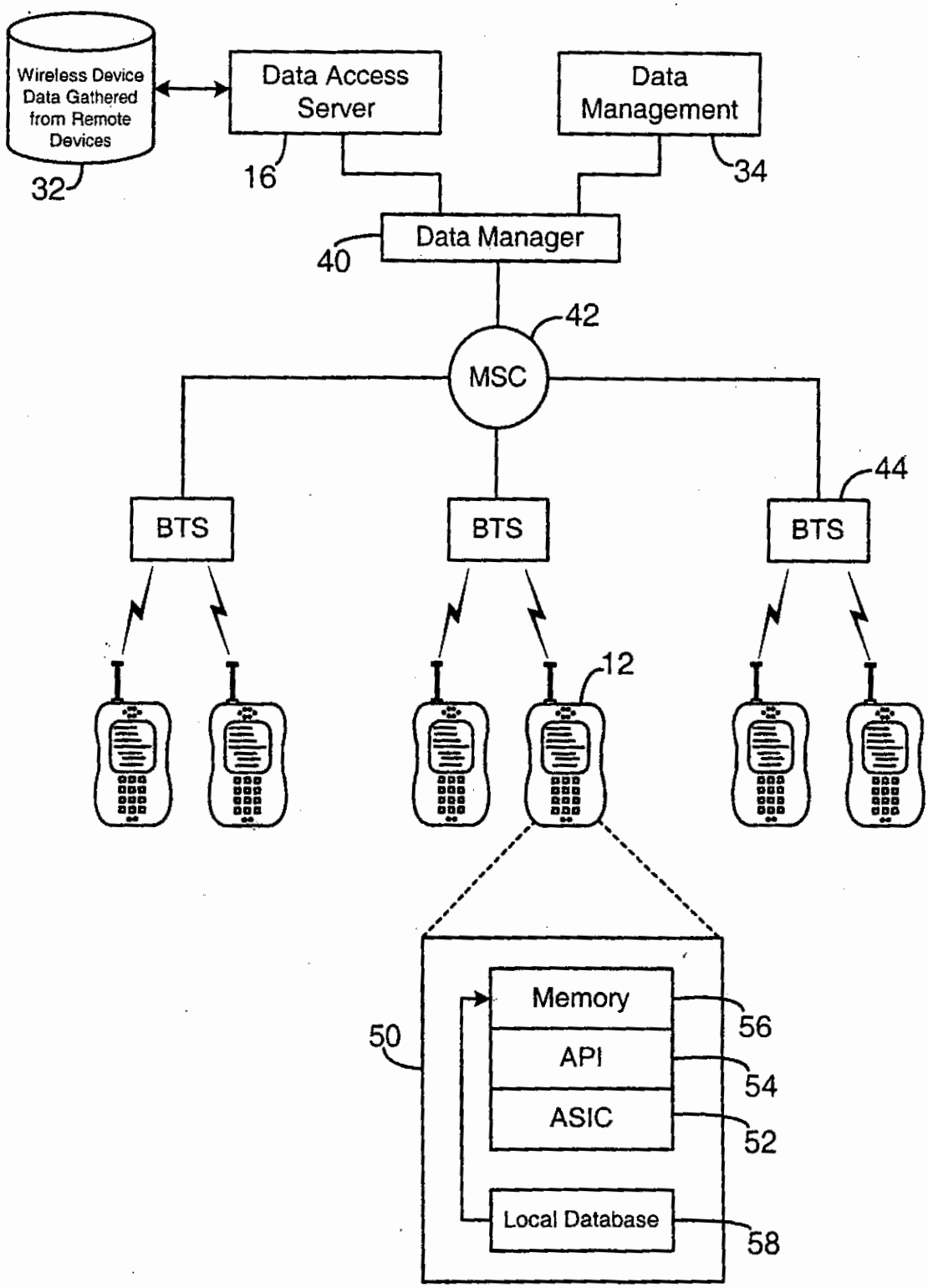
Wireless Device Data Gathered from Remote Devices
32
Data Access Server
16
Data Management
34
Data Manager
40
42
MSC
44
BTS
BTS
BTS
12
Memory
API
ASIC
Local Database
50
56
54
52
58

Fig. 2

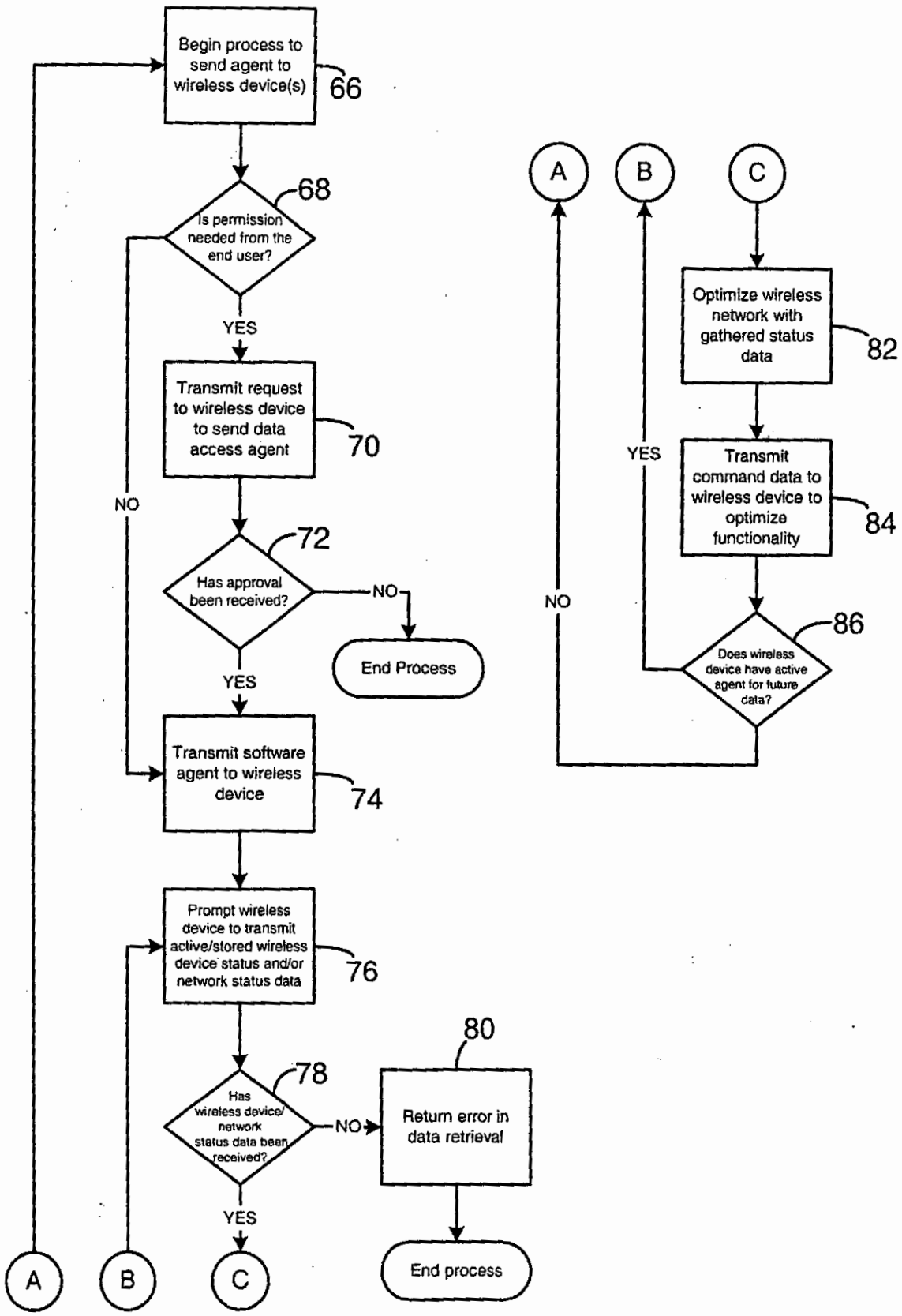
Begin process to send agent to wireless device(s)
66
Is permission needed from the end user?
68
YES
NO
Transmit request to wireless device to send data access agent
70
Has approval been received?
72
NO
End Process
YES
Transmit software agent to wireless device
74
Prompt wireless device to transmit active/stored wireless device status and/or network status data
76
Has wireless device/ network status data been received?
78
NO
Return error in data retrieval
80
End process
YES
A
B
C
A
B
C
Optimize wireless network with gathered status data
82
Transmit command data to wireless device to optimize functionality
84
Does wireless device have active agent for future data?
86
YES
NO

Fig. 3

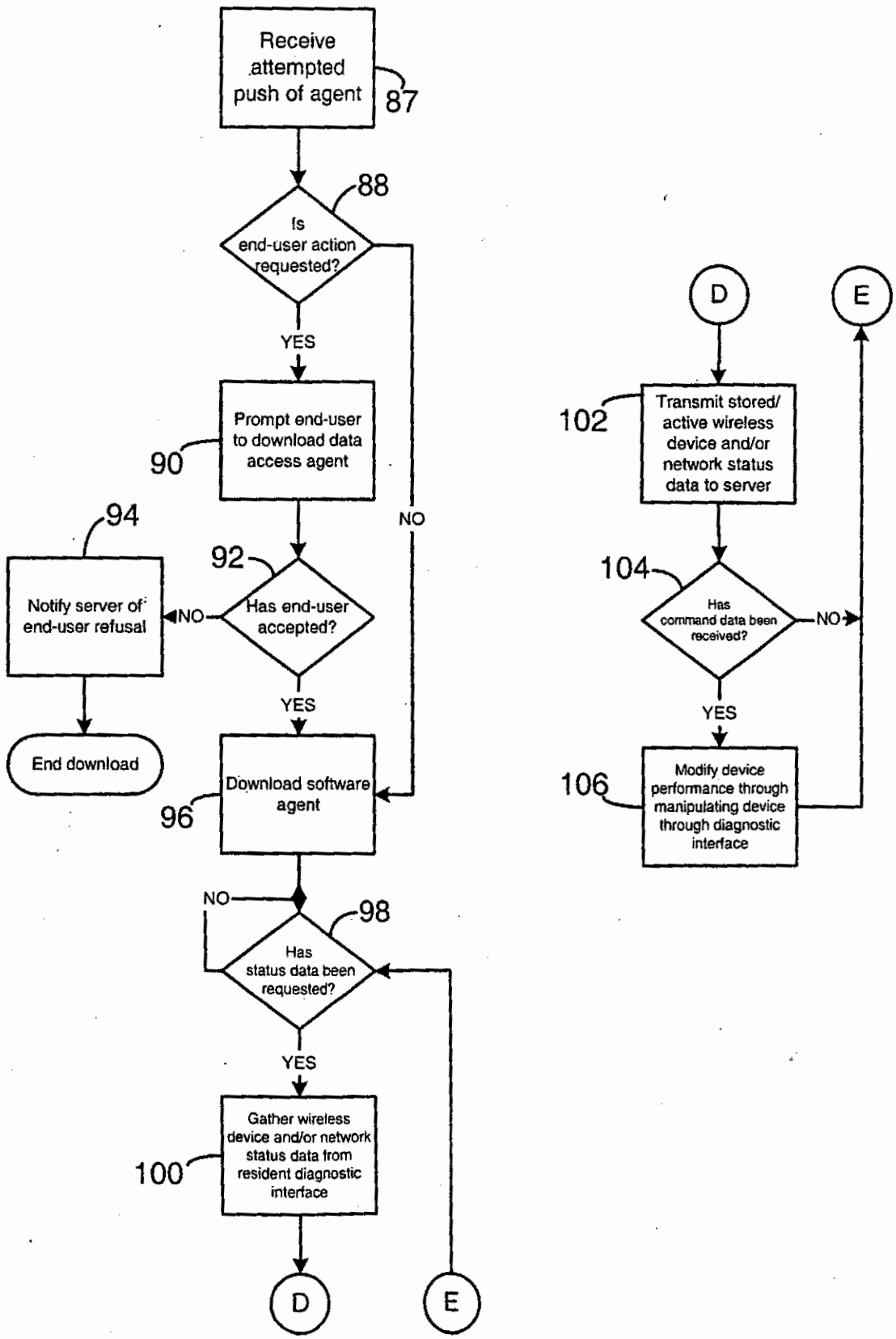
Receive attempted push of agent
87
88
Is end-user action requested?
YES
NO
Prompt end-user to download data access agent
90
94
92
Notify server of end-user refusal
NO
Has end-user accepted?
YES
End download
Download software agent
96
NO
98
Has status data been requested?
YES
Gather wireless device and/or network status data from resident diagnostic interface
100
D
E
D
E
102
Transmit stored/ active wireless device and/or network status data to server
104
Has command data been received?
NO
YES
106
Modify device performance through manipulating device through diagnostic interface

Fig. 4

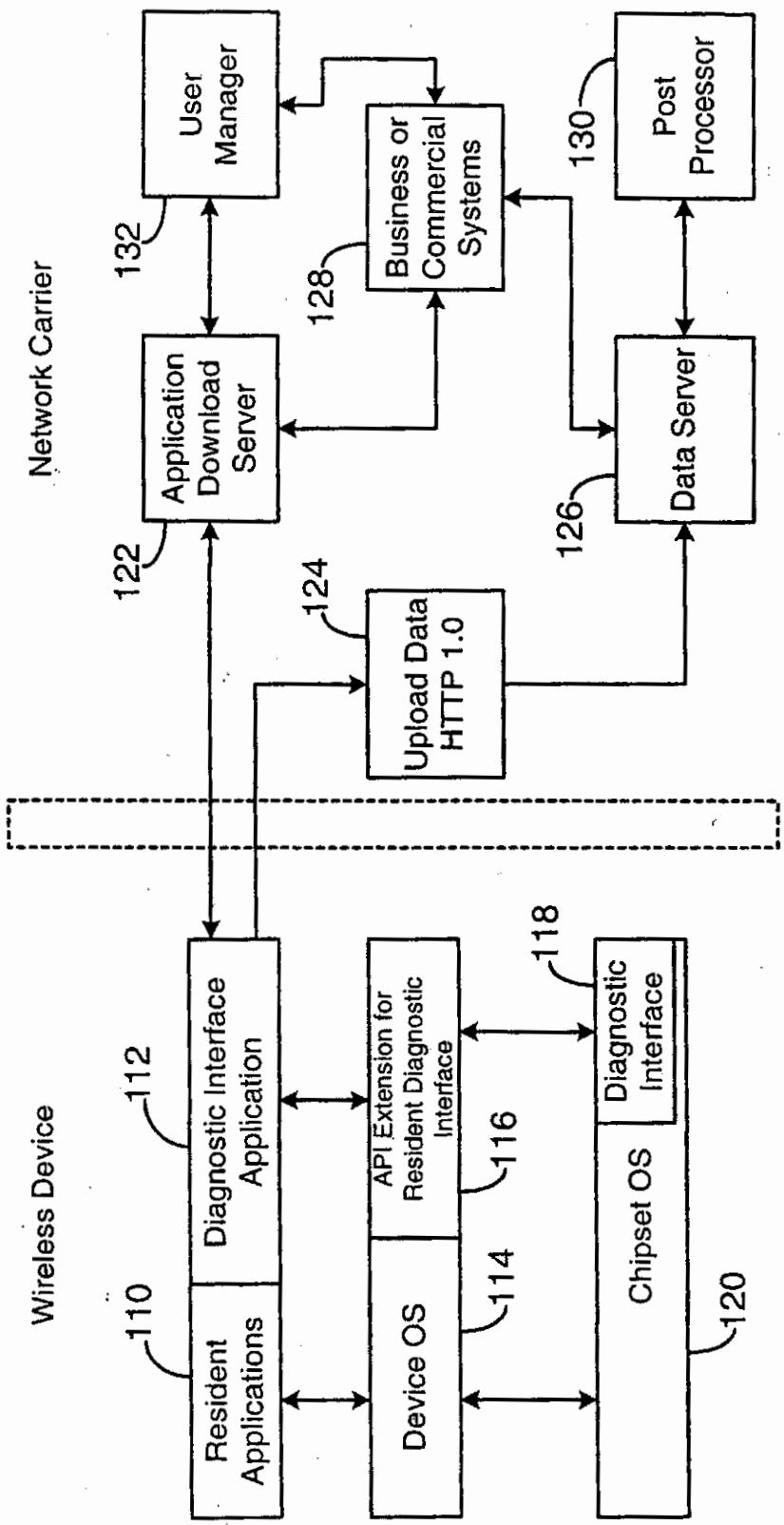
Network Carrier
User Manager
132
Business or Commercial Systems
128
Post Processor
130
Application Download Server
122
Data Server
126
124
Upload Data HTTP 1.0
Wireless Device
Diagnostic Interface Application
112
API Extension for Resident Diagnostic Interface
116
118
Diagnostic Interface
Resident Applications
110
Device OS
114
Chipset OS
120

Fig. 5