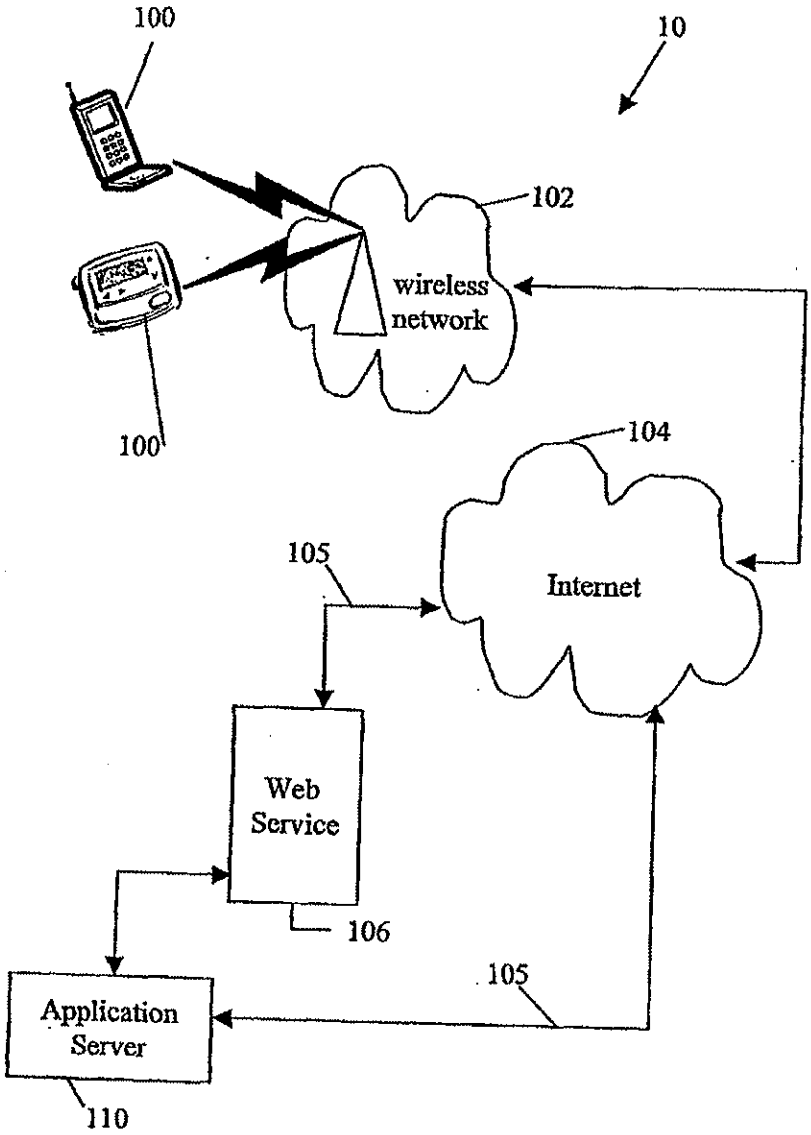

100
10
102
wireless
network
100
104
105
Internet
Web
Service
106
105
Application
Server
110

Figure 1

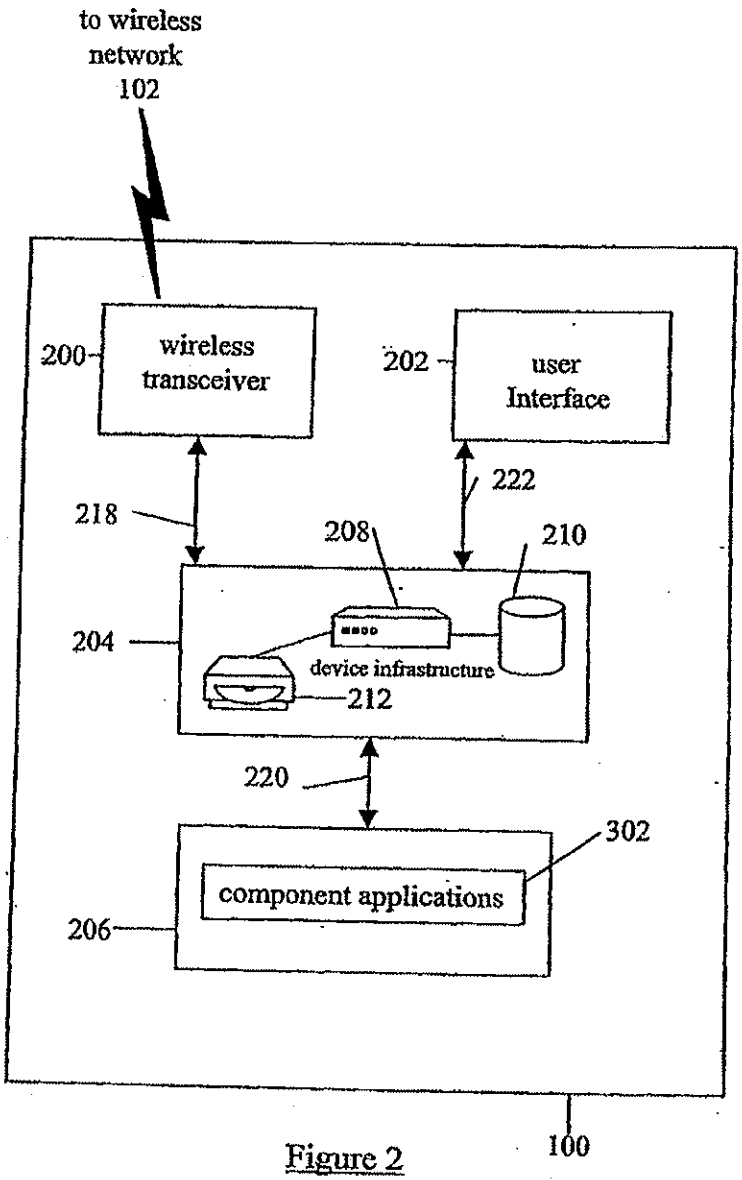

to wireless network 102
200
wireless transceiver
202
user Interface
222
218
208
210
204
device infrastructure
212
220
302
component applications
206
100

Figure 2

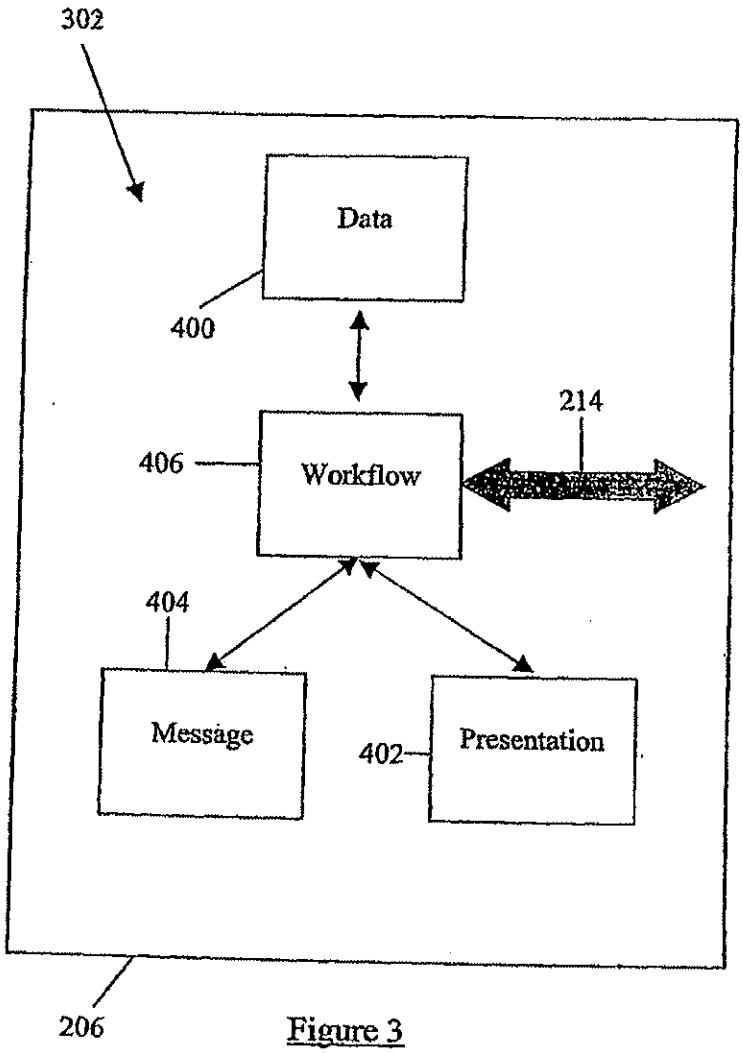

302
Data
400
214
406
Workflow
404
Message
402
Presentation
206

Figure 3

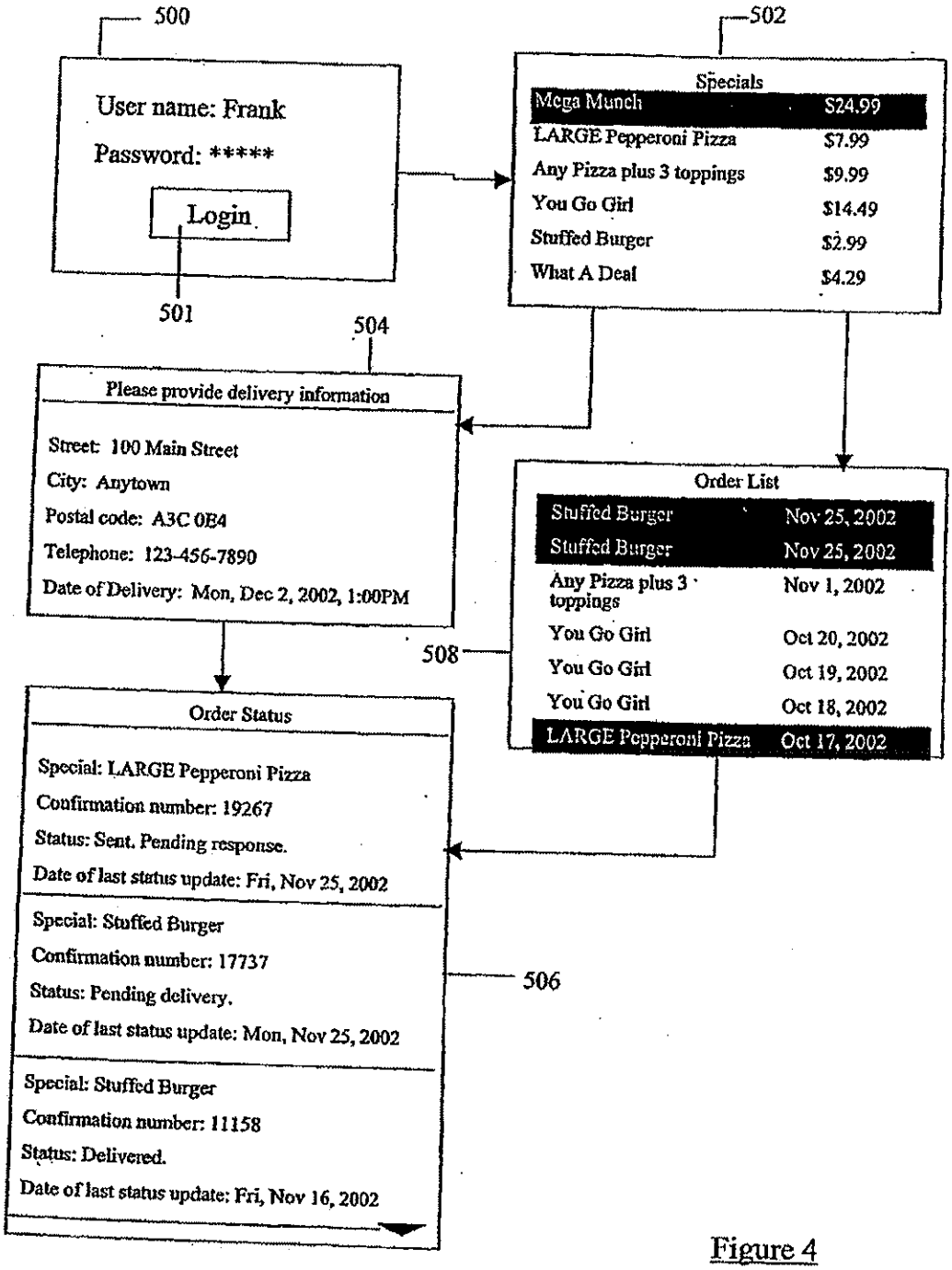

500
User name: Frank
Password: *****
Login
501
502
Specials
Mega Munch $24.99
LARGE Pepperoni Pizza $7.99
Any Pizza plus 3 toppings $9.99
You Go Girl $14.49
Stuffed Burger $2.99
What A Deal $4.29
504
Please provide delivery information
Street: 100 Main Street
City: Anytown
Postal code: A3C 0B4
Telephone: 123-456-7890
Date of Delivery: Mon, Dec 2, 2002, 1:00PM
Order List
Stuffed Burger Nov 25, 2002
Stuffed Burger Nov 25, 2002
Any Pizza plus 3 toppings Nov 1, 2002
You Go Girl Oct 20, 2002
You Go Girl Oct 19, 2002
You Go Girl Oct 18, 2002
LARGE Pepperoni Pizza Oct 17, 2002
508
Order Status
Special: LARGE Pepperoni Pizza
Confirmation number: 19267
Status: Sent. Pending response.
Date of last status update: Fri, Nov 25, 2002
Special: Stuffed Burger
Confirmation number: 17737
Status: Pending delivery.
Date of last status update: Mon, Nov 25, 2002
Special: Stuffed Burger
Confirmation number: 11158
Status: Delivered.
Date of last status update: Fri, Nov 16, 2002
506

Figure 4

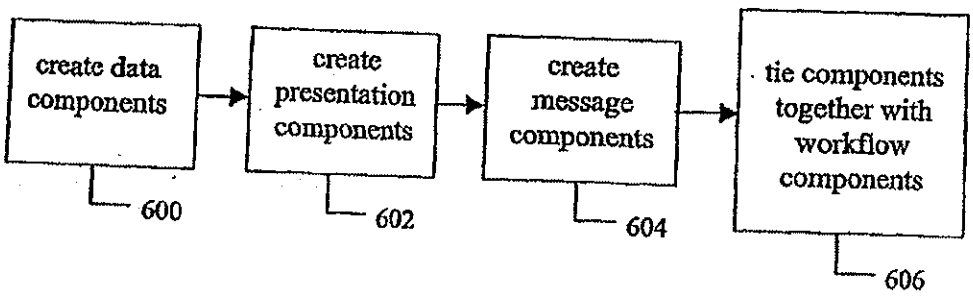

create data components
600
create presentation components
602
create message components
604
tie components together with workflow components
606

Figure 5

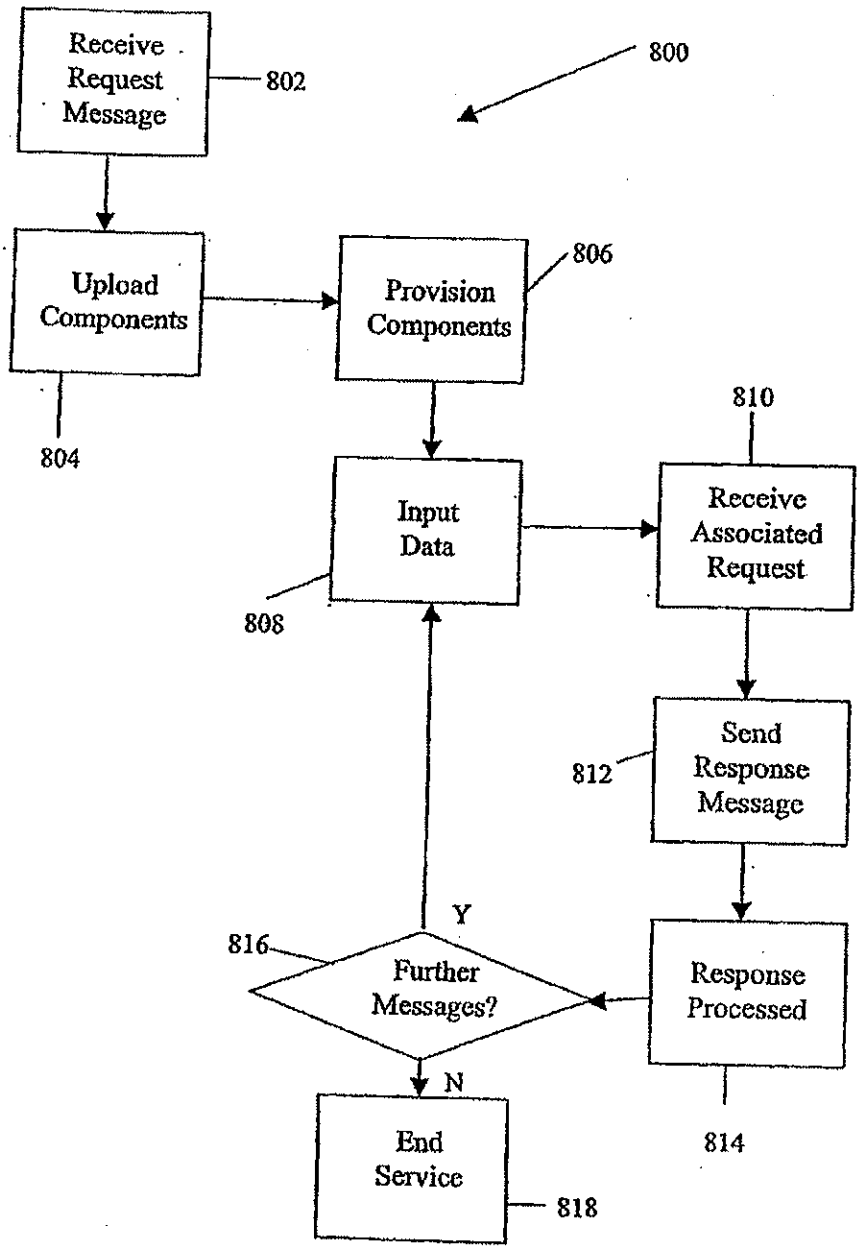

Receive Request Message
802
800
Upload Components
804
Provision Components
806
Input Data
808
810
Receive Associated Request
Send Response Message
812
Response Processed
814
Y
816
Further Messages?
N
End Service
818

Figure 6

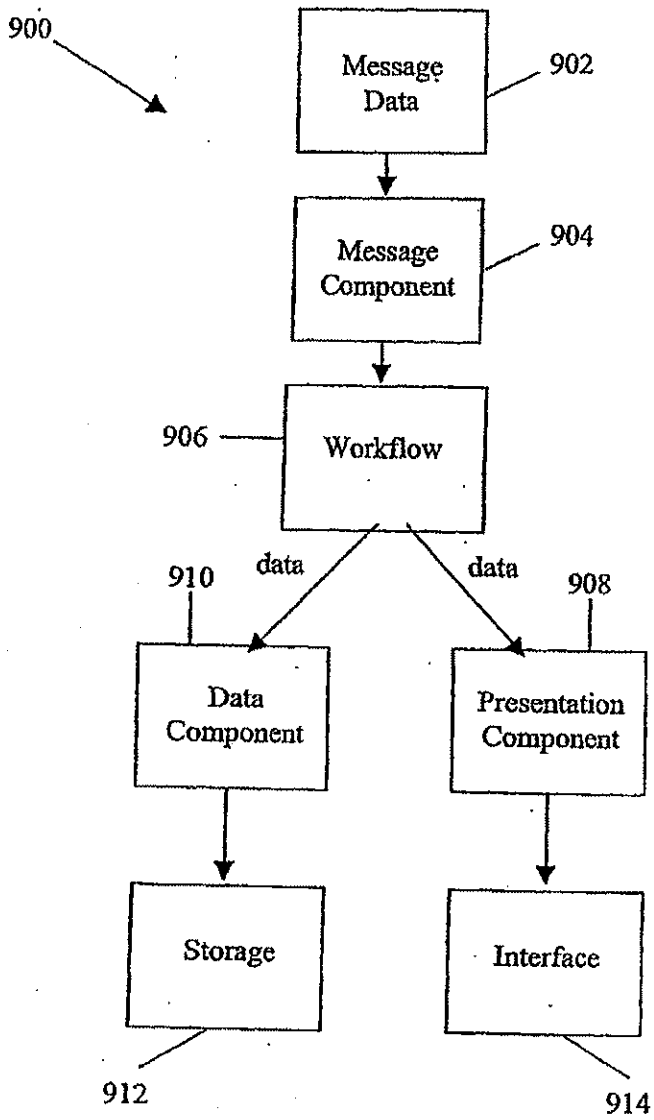

900
Message Data
902
Message Component
904
906
Workflow
910
data
data
908
Data Component
Presentation Component
Storage
Interface
912
914

Figure 7

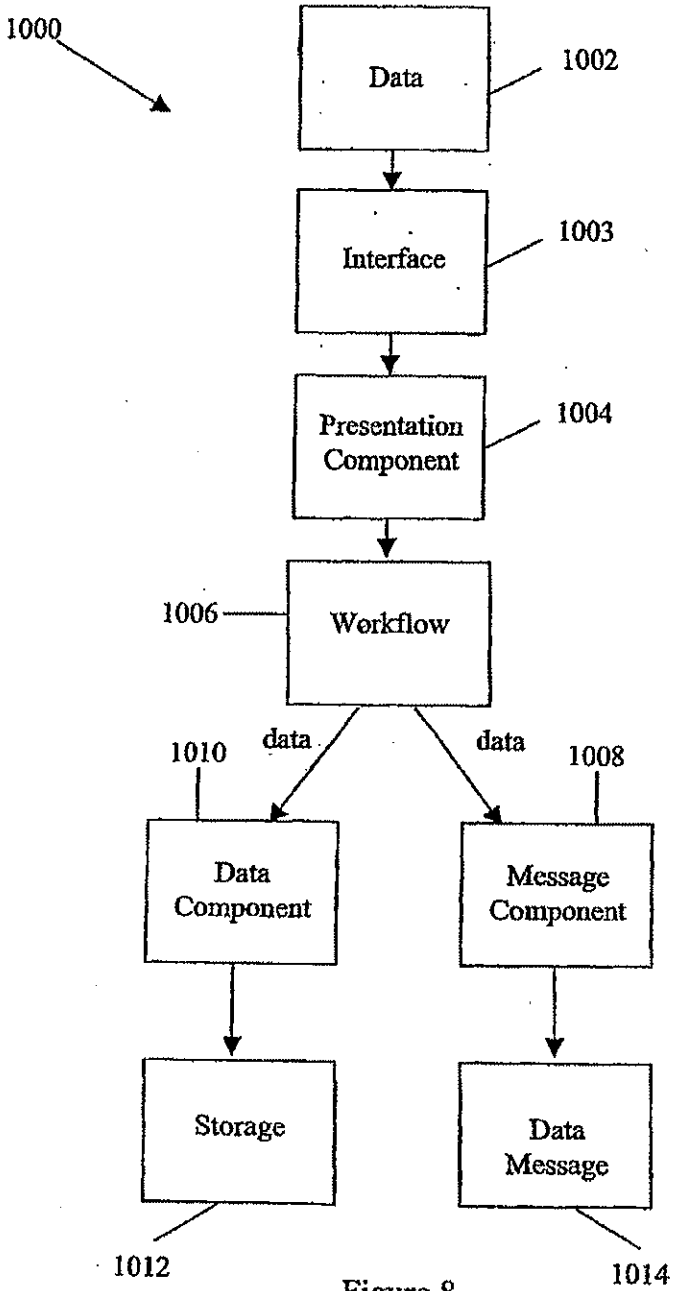

1000
Data
1002
Interface
1003
Presentation Component
1004
1006
Workflow
data
data
1010
1008
Data Component
Message Component
Storage
Data Message
1012
1014

Figure 8

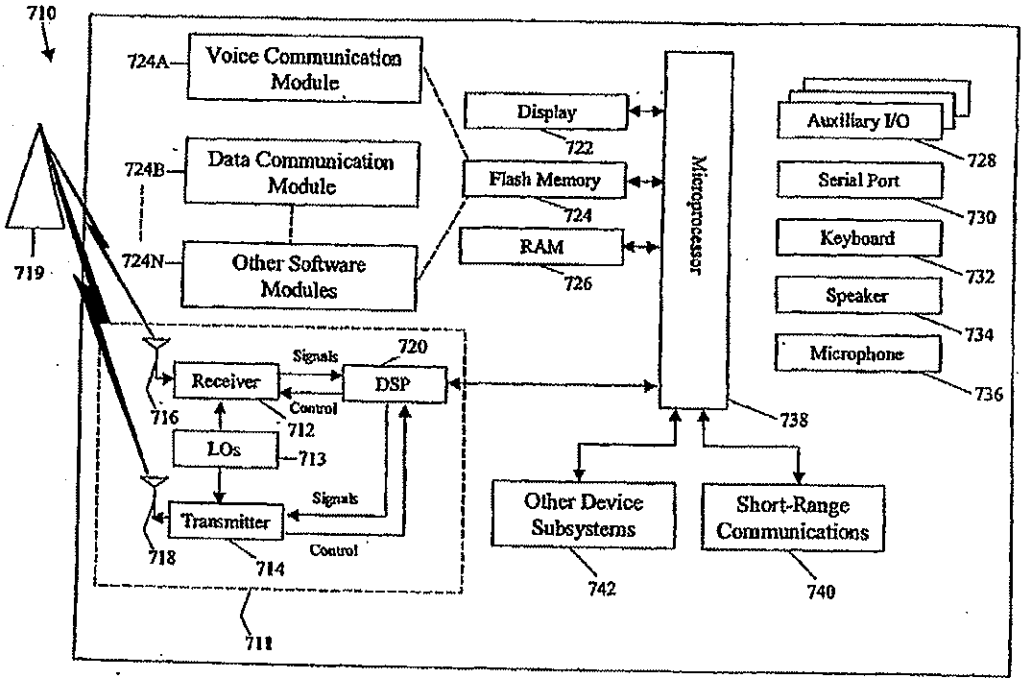

710
724A
Voice Communication Module
724B
Data Communication Module
724N
Other Software Modules
719
Display
722
Flash Memory
724
RAM
726
Microprocessor
Auxiliary I/O
728
Serial Port
730
Keyboard
732
Speaker
734
Microphone
736
738
Signals
720
Receiver
DSP
Control
712
716
LOs
713
Signals
Transmitter
Control
718
714
711
Other Device Subsystems
742
Short-Range Communications
740

Figure 9