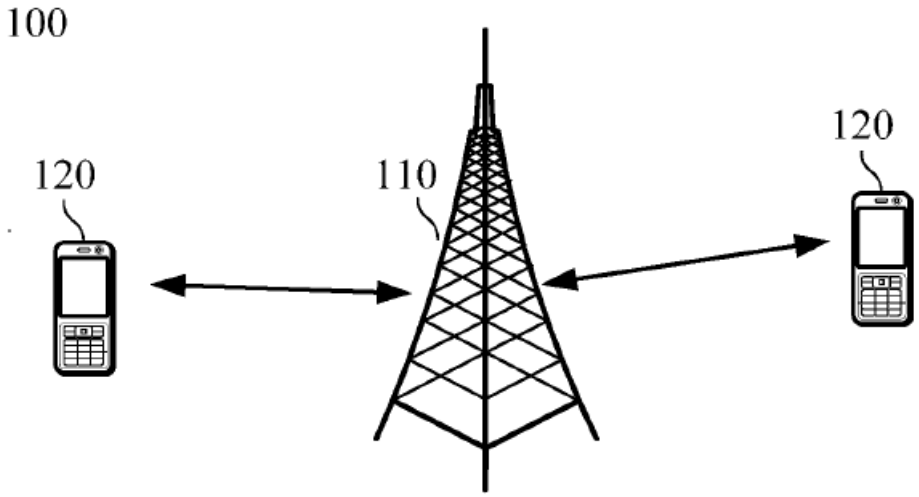

FIG. 1

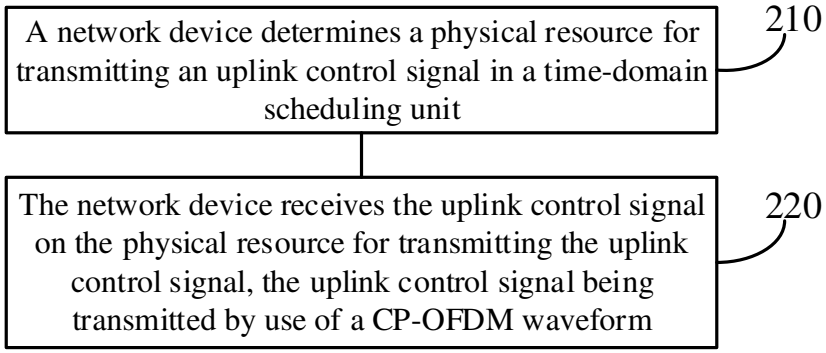

FIG. 2

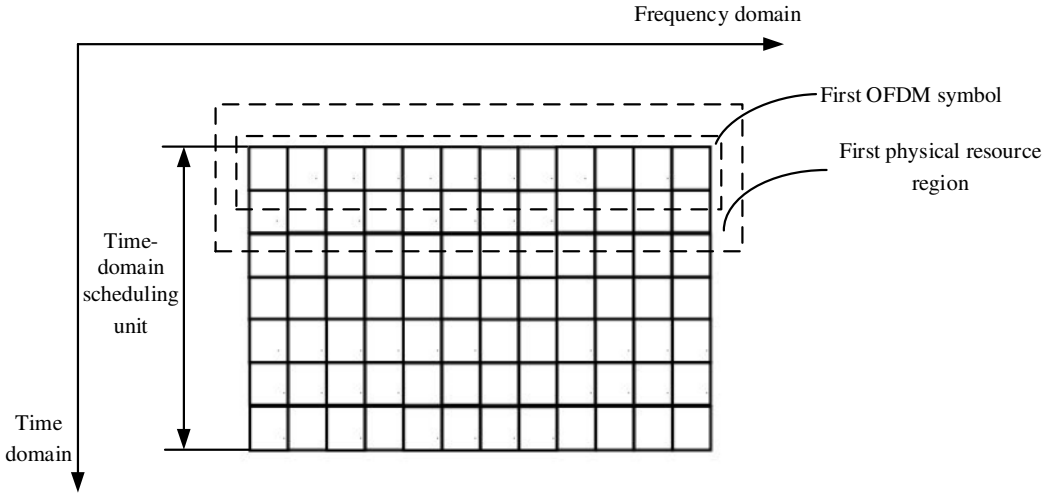

FIG. 3

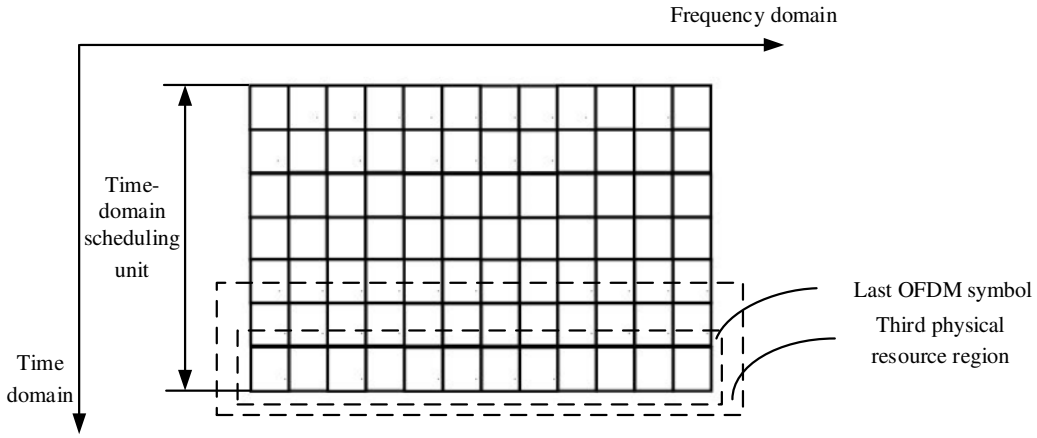
Frequency domain
Time-domain scheduling unit
Time domain
Last OFDM symbol
Third physical resource region

FIG. 4

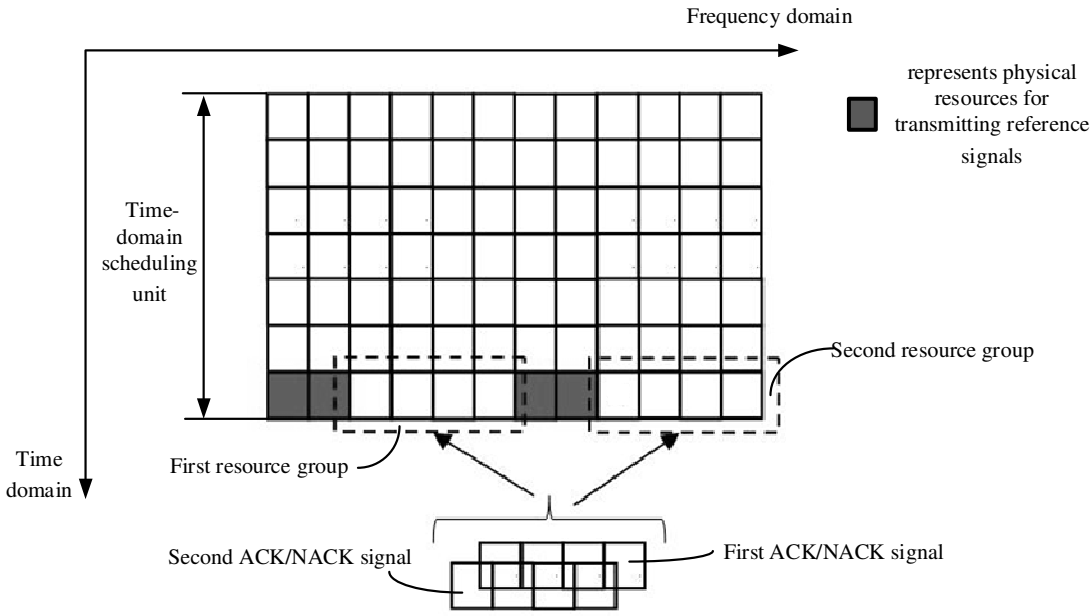
Frequency domain
represents physical resources for transmitting reference signals
Time-domain scheduling unit
Second resource group
Time domain
First resource group
Second ACK/NACK signal
First ACK/NACK signal

FIG. 5

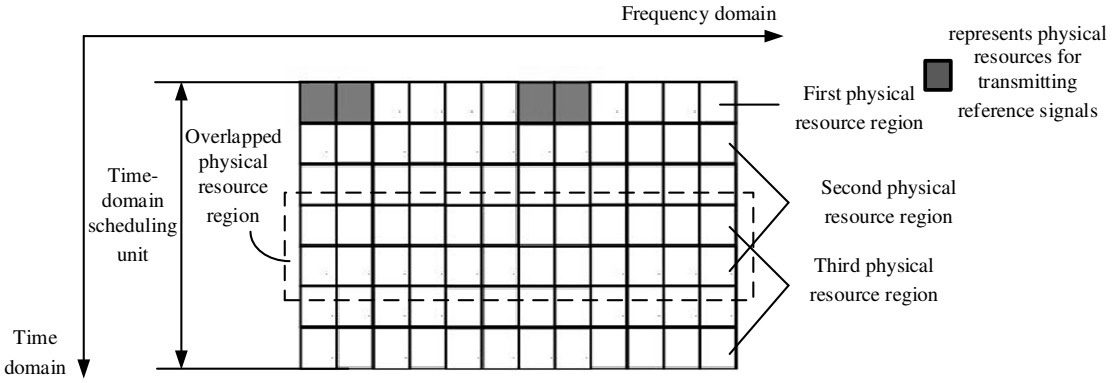

FIG. 6

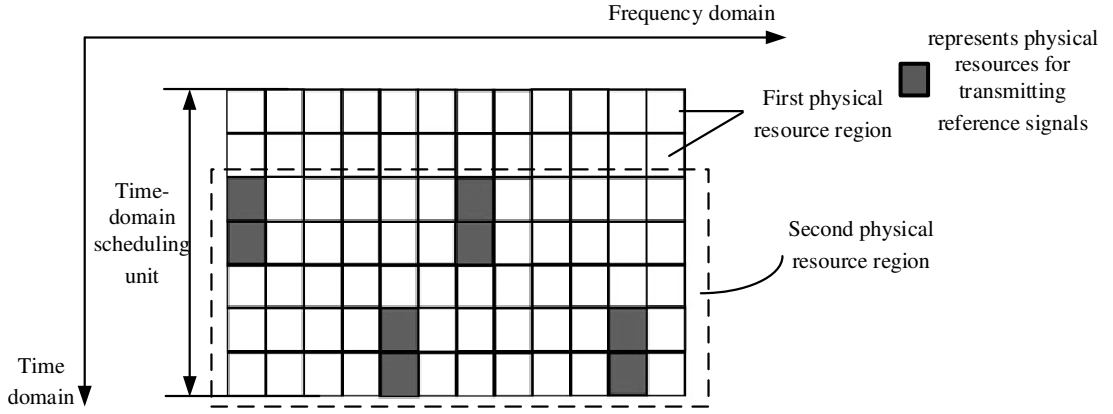

FIG. 7

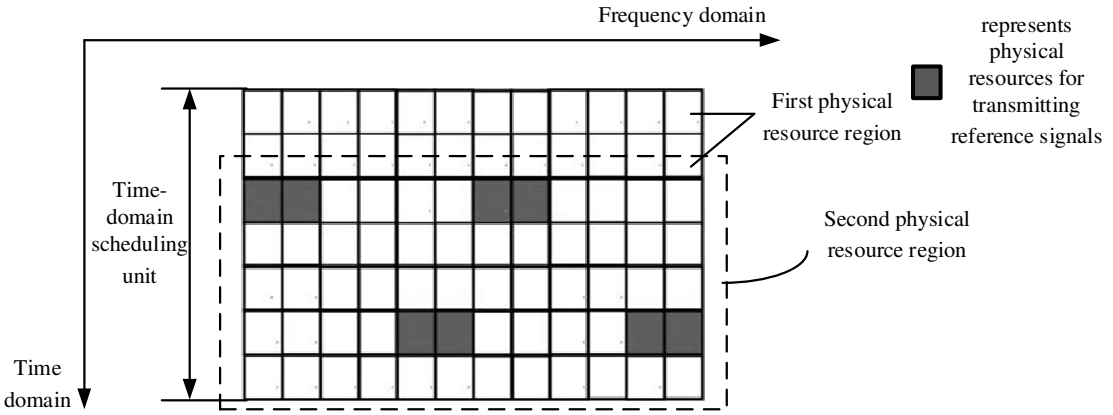

FIG. 8

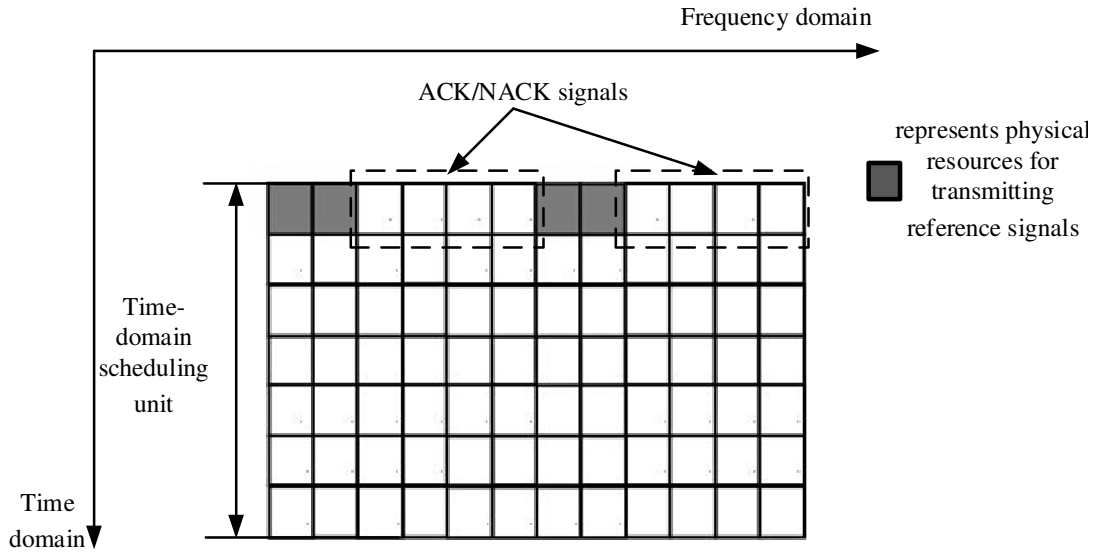
Frequency domain
ACK/NACK signals
represents physical resources for transmitting reference signals
Time-domain scheduling unit
Time domain

FIG. 9

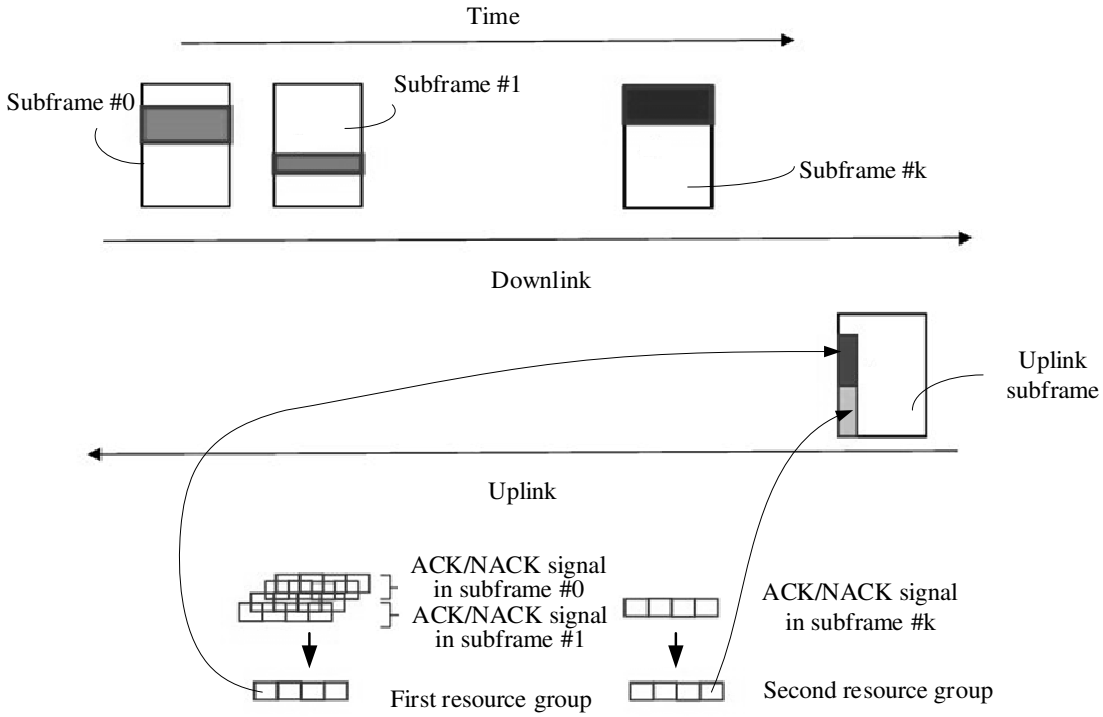
Time
Subframe #0
Subframe #1
Subframe #k
Downlink
Uplink subframe
Uplink
ACK/NACK signal in subframe #0
ACK/NACK signal in subframe #1
ACK/NACK signal in subframe #k
First resource group
Second resource group

FIG. 10

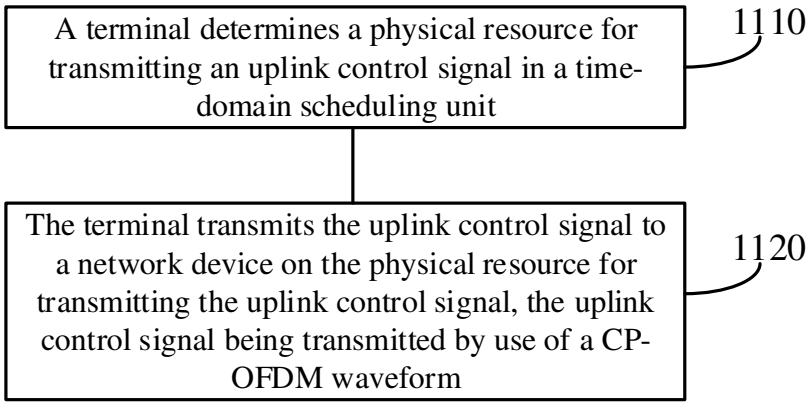

FIG. 11

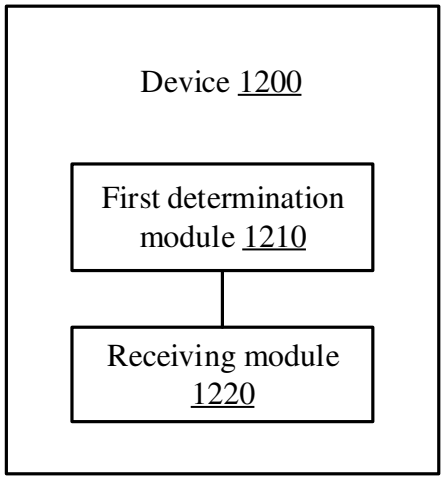

FIG. 12

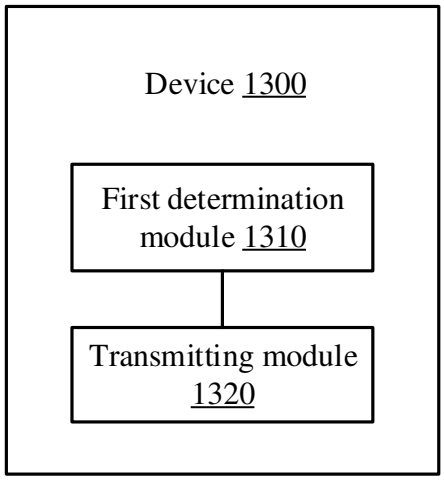

FIG. 13

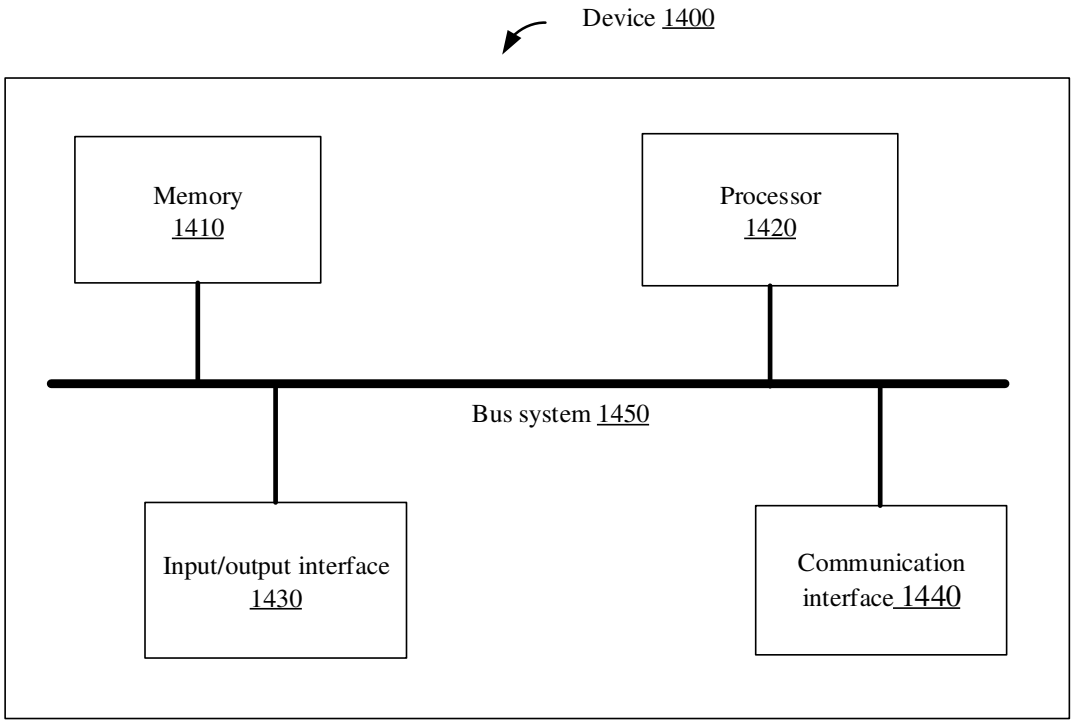
Device 1400
Memory
1410
Processor
1420
Bus system 1450
Input/output interface
1430
Communication
interface 1440

FIG. 14

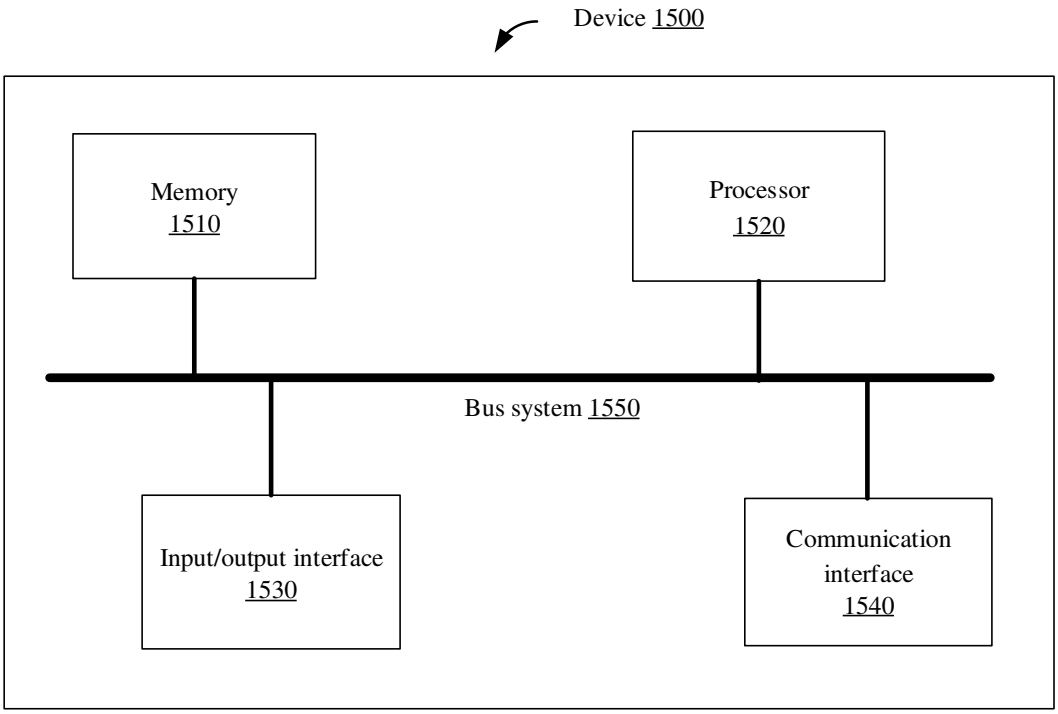
Device 1500
Memory
1510
Processor
1520
Bus system 1550
Input/output interface
1530
Communication
interface
1540

FIG. 15