FIG. 1

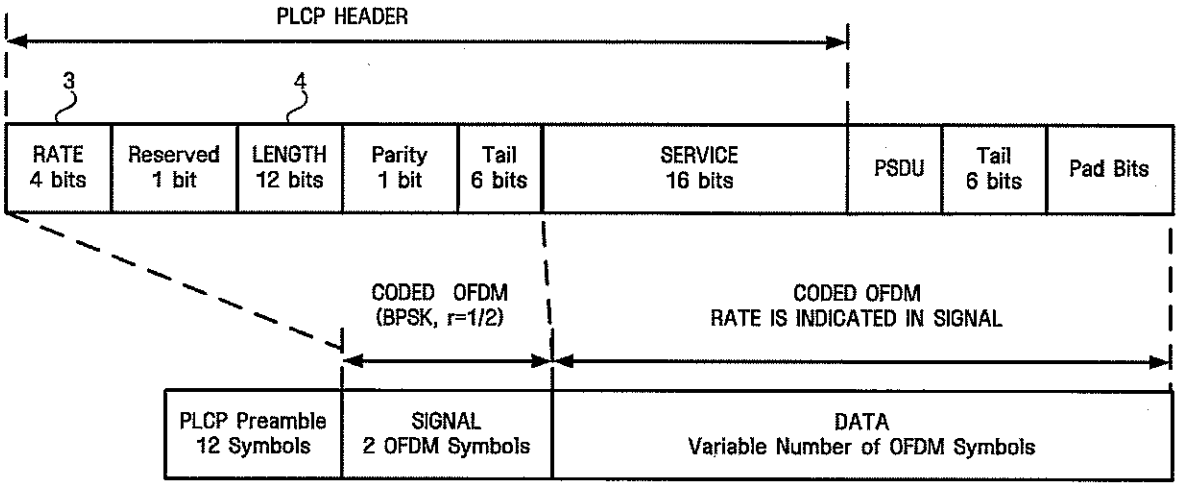

PLCP HEADER
3
4
RATE
4 bits
Reserved
1 bit
LENGTH
12 bits
Parity
1 bit
Tail
6 bits
SERVICE
16 bits
PSDU
Tail
6 bits
Pad Bits
CODED OFDM
(BPSK, r=1/2)
CODED OFDM
RATE IS INDICATED IN SIGNAL
PLCP Preamble
12 Symbols
SIGNAL
2 OFDM Symbols
DATA
Variable Number of OFDM Symbols

FIG. 2

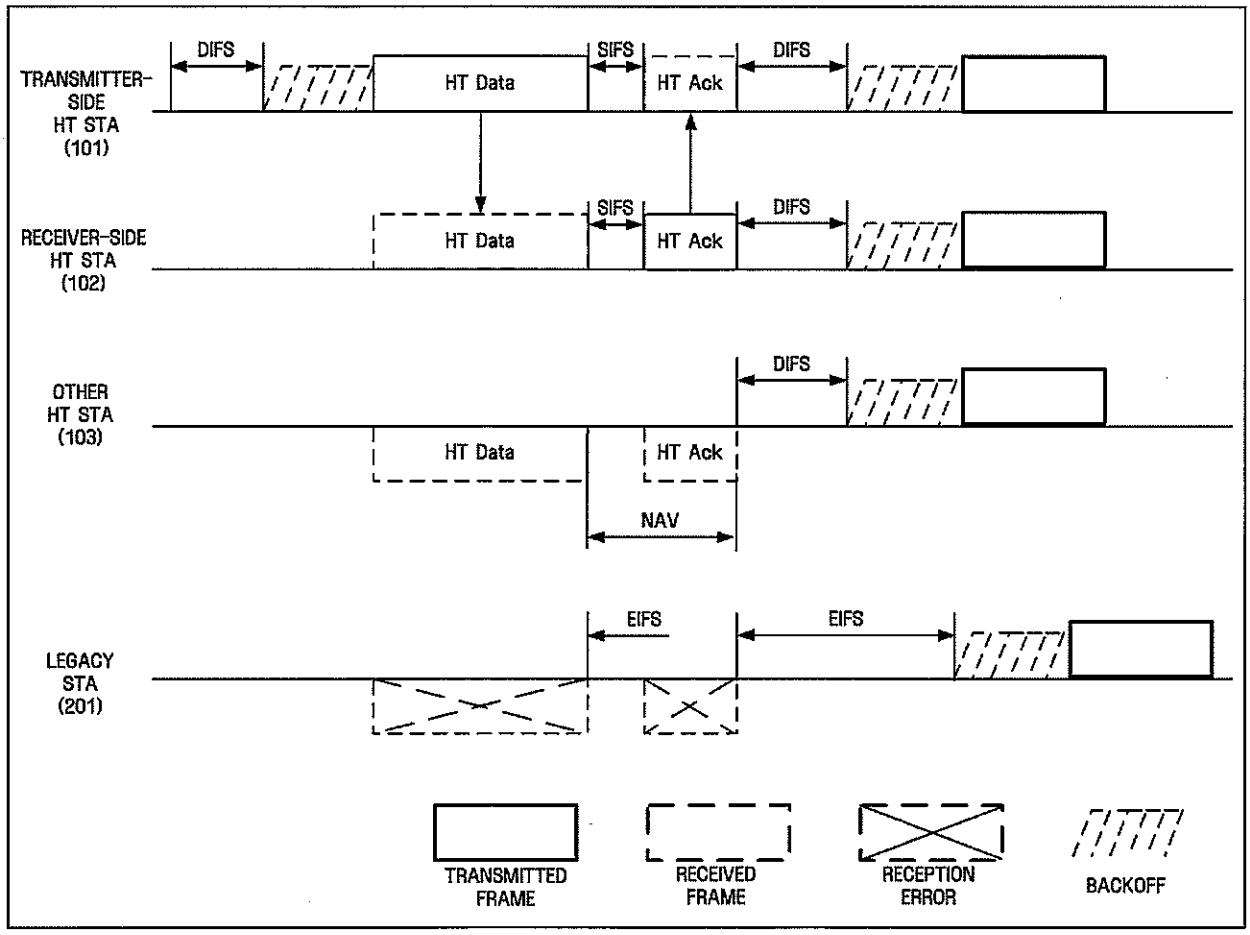

TRANSMITTER-SIDE HT STA (101)
DIFS
HT Data
SIFS
HT Ack
DIFS
RECEIVER-SIDE HT STA (102)
SIFS
HT Data
HT Ack
DIFS
OTHER HT STA (103)
DIFS
HT Data
HT Ack
NAV
LEGACY STA (201)
EIFS
EIFS
TRANSMITTED FRAME
RECEIVED FRAME
RECEPTION ERROR
BACKOFF

FIG. 3

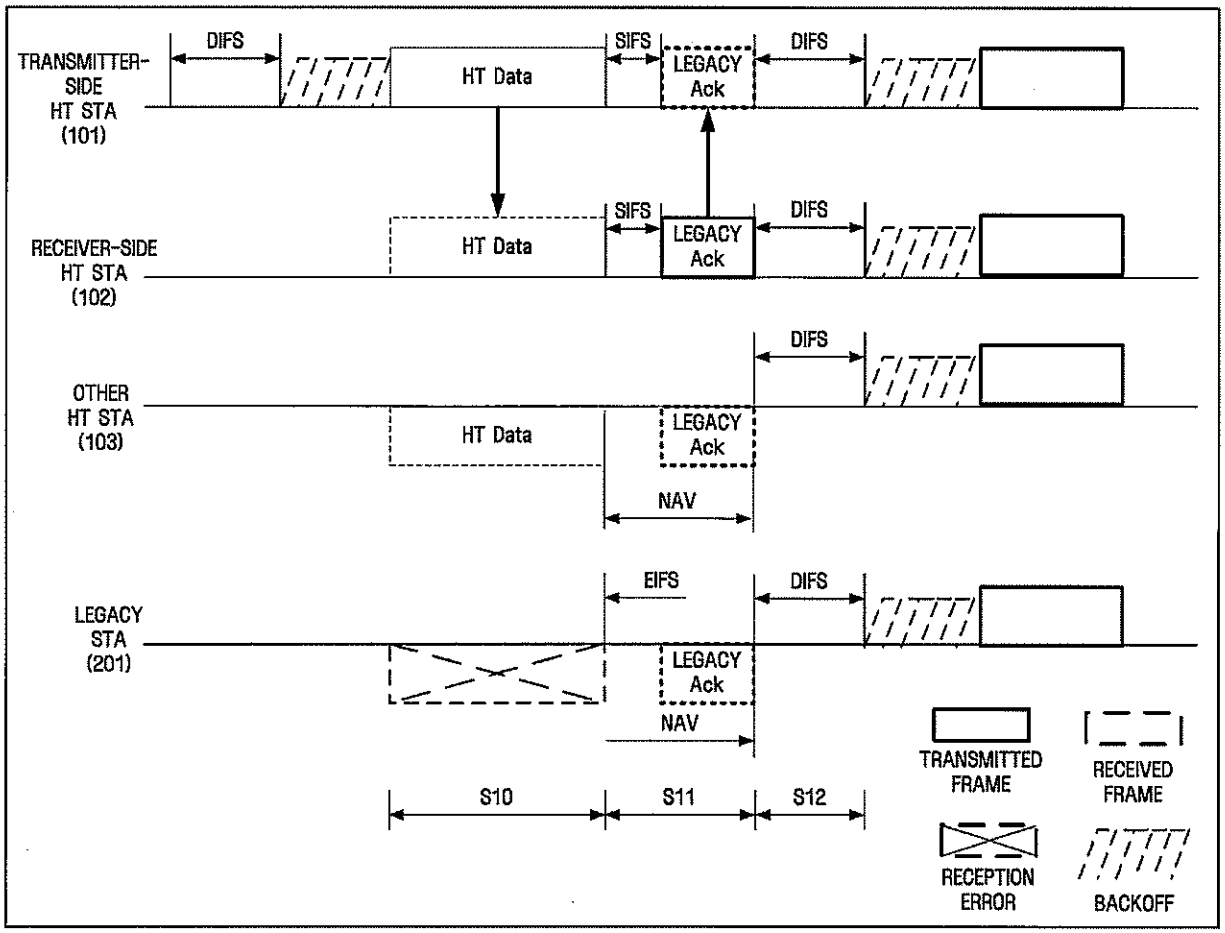

TRANSMITTER-SIDE HT STA (101)
DIFS
HT Data
SIFS
LEGACY Ack
DIFS
RECEIVER-SIDE HT STA (102)
HT Data
SIFS
LEGACY Ack
DIFS
OTHER HT STA (103)
DIFS
HT Data
LEGACY Ack
NAV
LEGACY STA (201)
EIFS
DIFS
LEGACY Ack
NAV
S10
S11
S12
TRANSMITTED FRAME
RECEIVED FRAME
RECEPTION ERROR
BACKOFF

FIG. 4

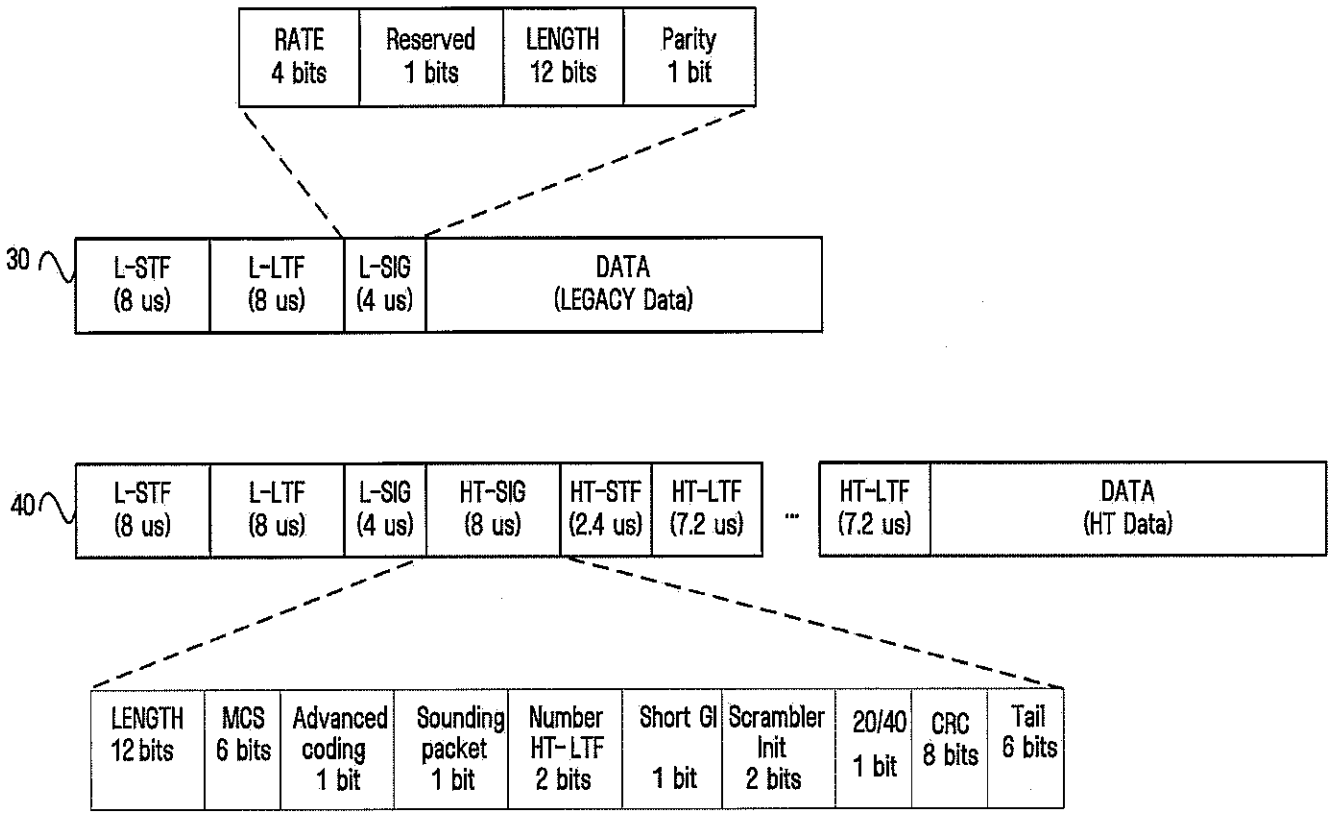

RATE
4 bits
Reserved
1 bits
LENGTH
12 bits
Parity
1 bit
30
L-STF
(8 us)
L-LTF
(8 us)
L-SIG
(4 us)
DATA
(LEGACY Data)
40
L-STF
(8 us)
L-LTF
(8 us)
L-SIG
(4 us)
HT-SIG
(8 us)
HT-STF
(2.4 us)
HT-LTF
(7.2 us)
...
HT-LTF
(7.2 us)
DATA
(HT Data)
LENGTH
12 bits
MCS
6 bits
Advanced
coding
1 bit
Sounding
packet
1 bit
Number
HT-LTF
2 bits
Short GI
1 bit
Scrambler
Init
2 bits
20/40
1 bit
CRC
8 bits
Tail
6 bits

FIG. 5

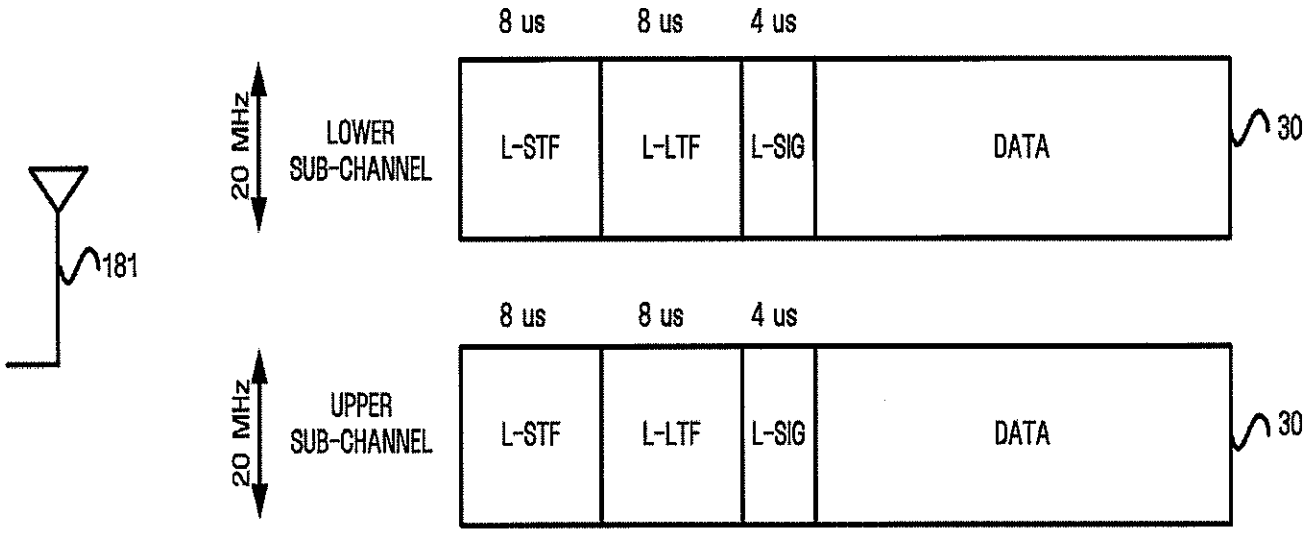

8 us
8 us
4 us
20 MHz
LOWER SUB-CHANNEL
L-STF
L-LTF
L-SIG
DATA
30
181
8 us
8 us
4 us
20 MHz
UPPER SUB-CHANNEL
L-STF
L-LTF
L-SIG
DATA
30

FIG. 6

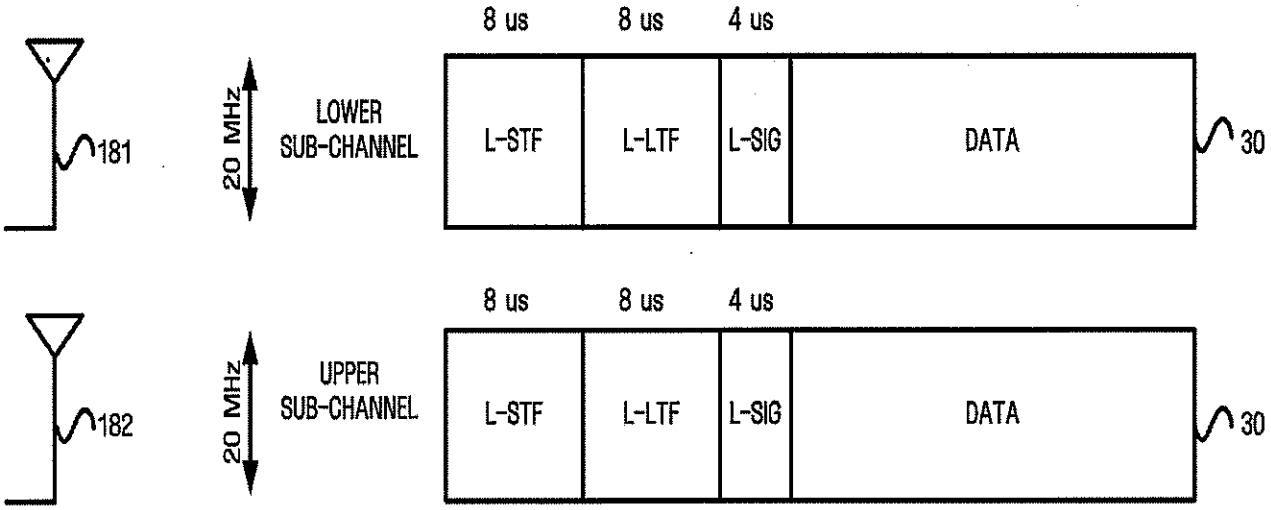

8 us
8 us
4 us
181
20 MHz
LOWER
SUB-CHANNEL
L-STF
L-LTF
L-SIG
DATA
30
8 us
8 us
4 us
182
20 MHz
UPPER
SUB-CHANNEL
L-STF
L-LTF
L-SIG
DATA
30

FIG. 7

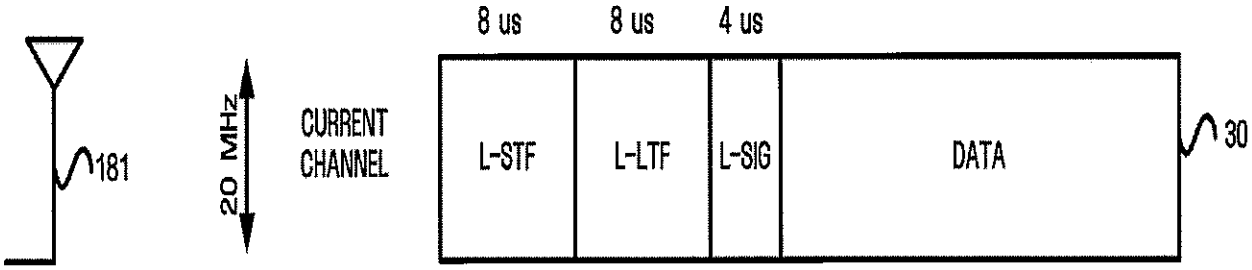


FIG. 8

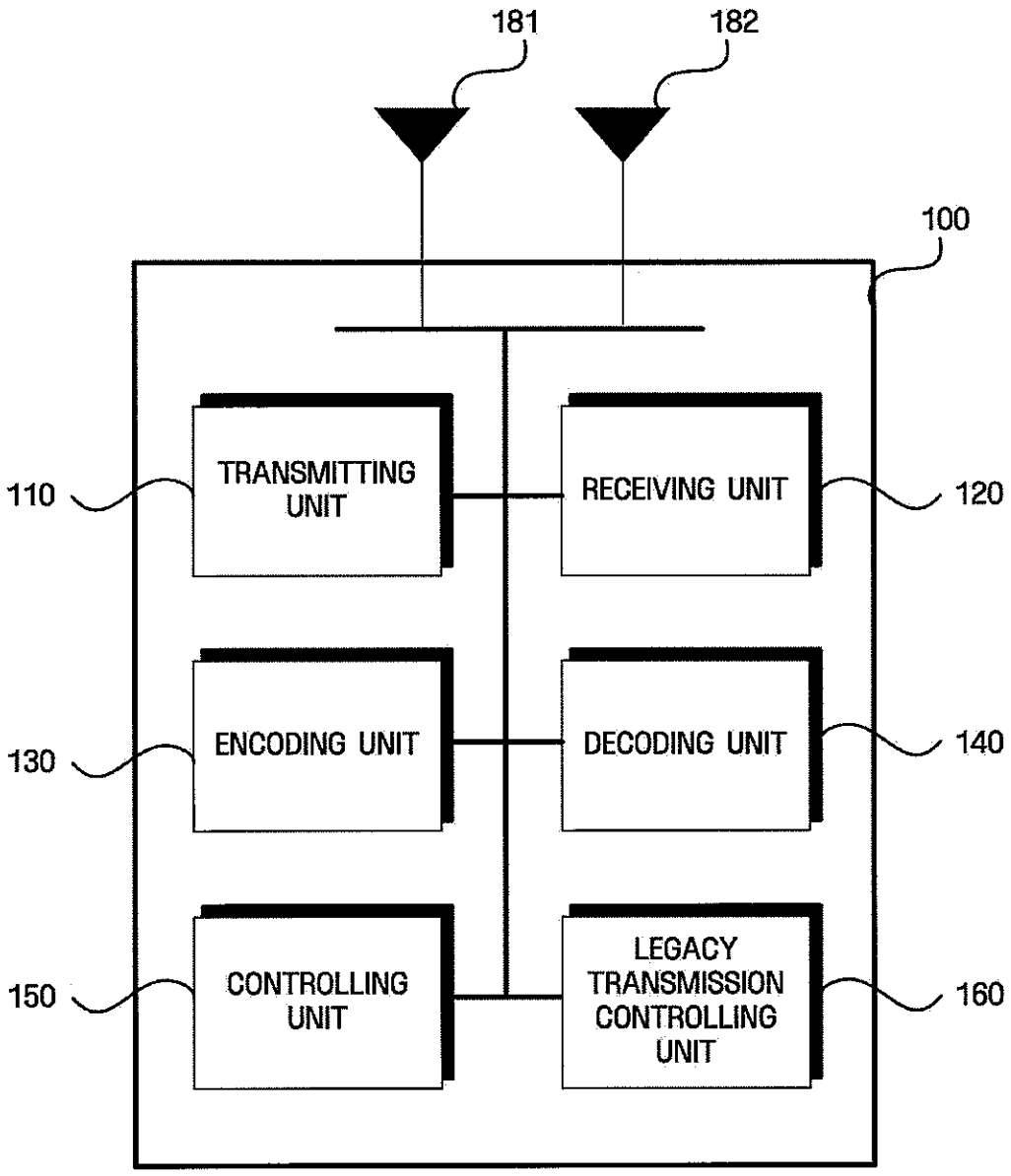
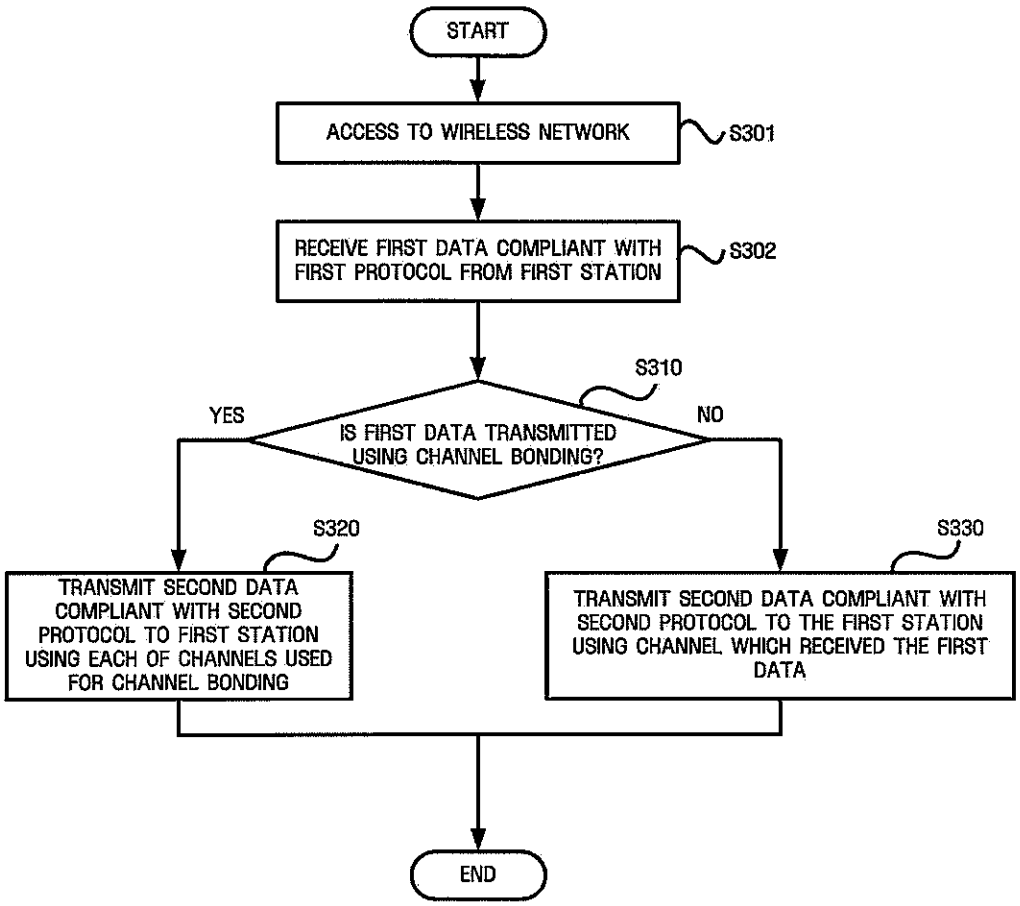

181
182
100
TRANSMITTING UNIT
110
RECEIVING UNIT
120
ENCODING UNIT
130
DECODING UNIT
140
CONTROLLING UNIT
150
LEGACY TRANSMISSION CONTROLLING UNIT
160

FIG. 9


START
ACCESS TO WIRELESS NETWORK
S301
RECEIVE FIRST DATA COMPLIANT WITH FIRST PROTOCOL FROM FIRST STATION
S302
S310
YES
IS FIRST DATA TRANSMITTED USING CHANNEL BONDING?
NO
S320
TRANSMIT SECOND DATA COMPLIANT WITH SECOND PROTOCOL TO FIRST STATION USING EACH OF CHANNELS USED FOR CHANNEL BONDING
S330
TRANSMIT SECOND DATA COMPLIANT WITH SECOND PROTOCOL TO THE FIRST STATION USING CHANNEL WHICH RECEIVED THE FIRST DATA
END