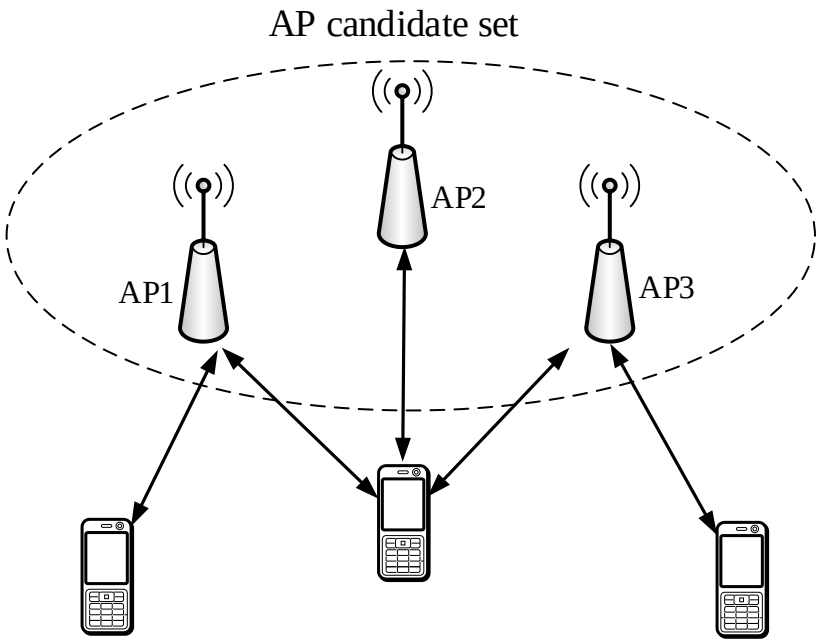

AP candidate set
AP1
AP2
AP3

FIG. 1

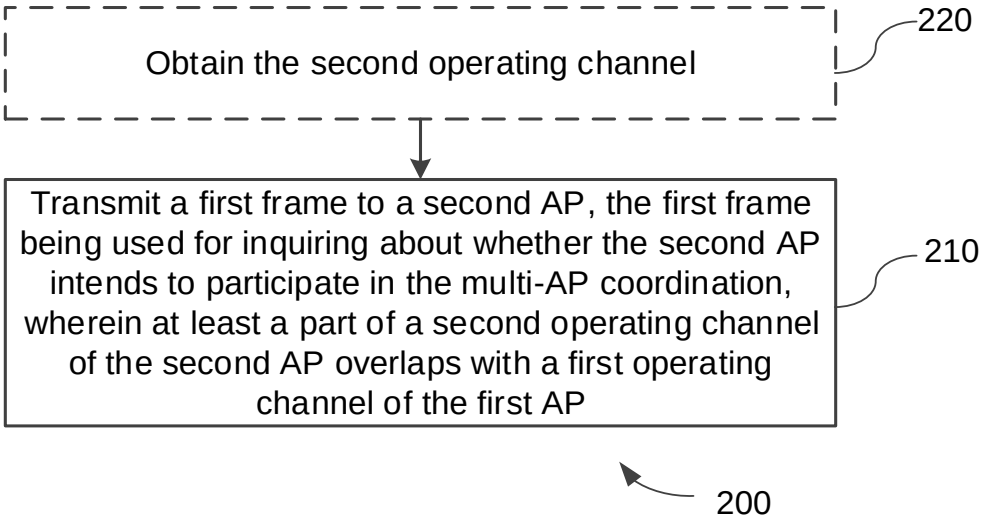

Obtain the second operating channel
220
Transmit a first frame to a second AP, the first frame being used for inquiring about whether the second AP intends to participate in the multi-AP coordination, wherein at least a part of a second operating channel of the second AP overlaps with a first operating channel of the first AP
210
200

FIG. 2

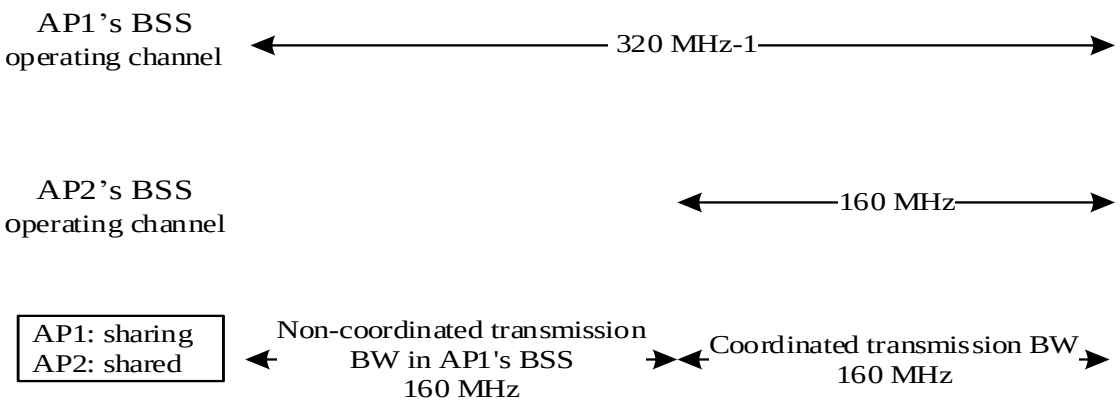


FIG. 3A

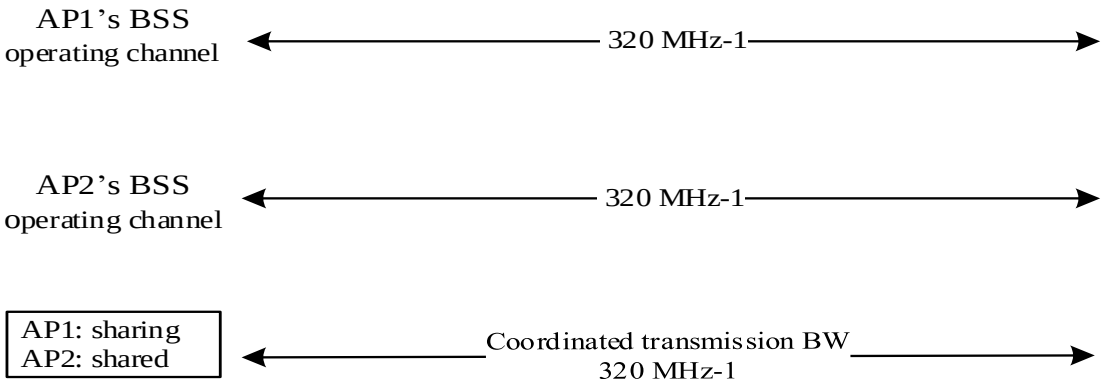


FIG. 3B

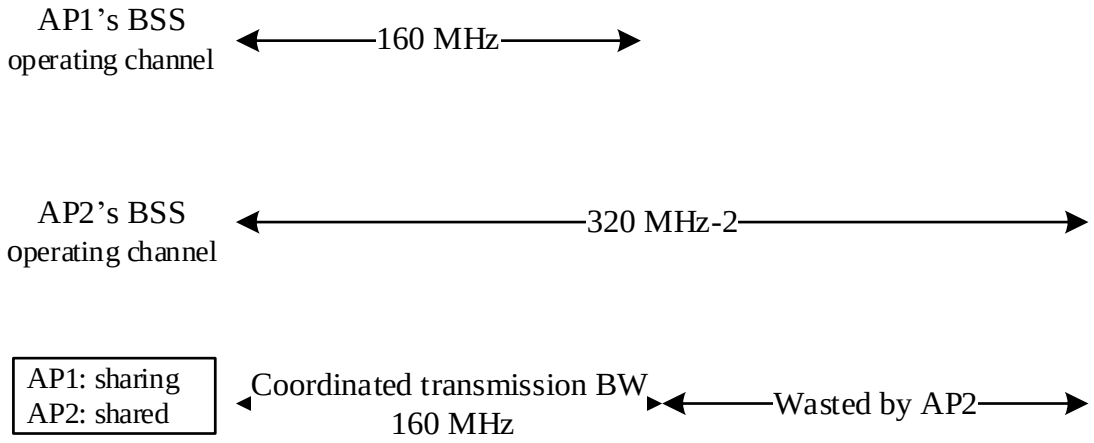


FIG. 3C

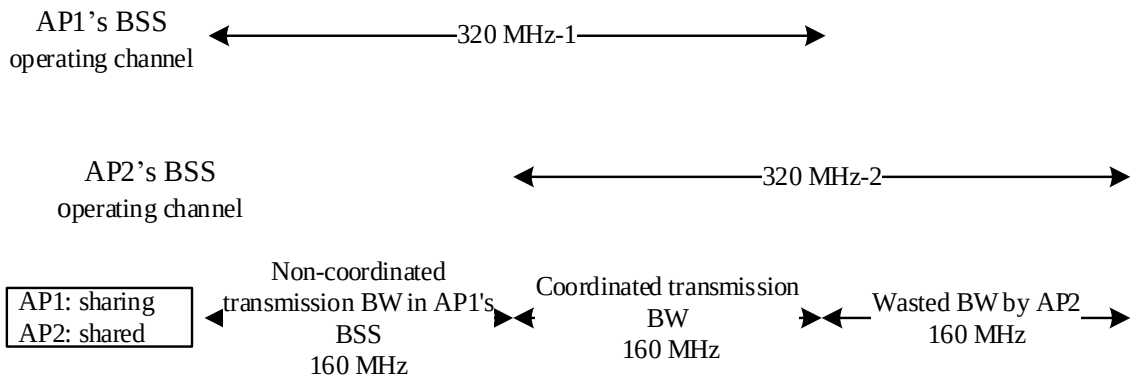

AP1's BSS
operating channel
320 MHz-1
AP2's BSS
operating channel
320 MHz-2
AP1: sharing
AP2: shared
Non-coordinated transmission BW in AP1's BSS
160 MHz
Coordinated transmission BW
160 MHz
Wasted BW by AP2
160 MHz

FIG. 3D

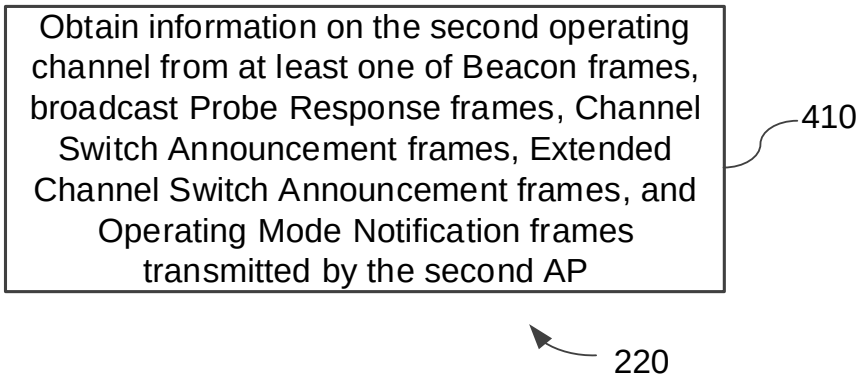

Obtain information on the second operating channel from at least one of Beacon frames, broadcast Probe Response frames, Channel Switch Announcement frames, Extended Channel Switch Announcement frames, and Operating Mode Notification frames transmitted by the second AP
410
220

FIG. 4

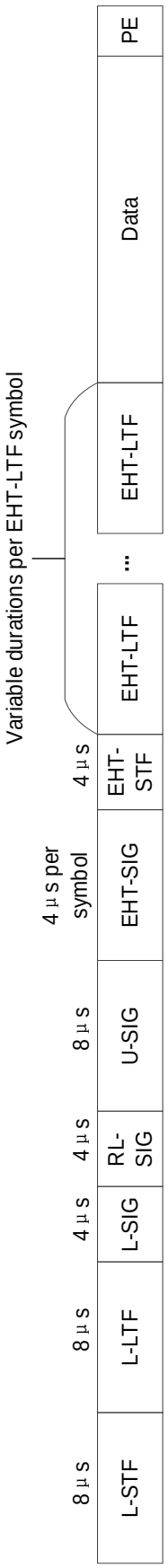

L-STF
8 μs
L-LTF
8 μs
L-SIG
4 μs
RL-SIG
4 μs
U-SIG
8 μs
EHT-SIG
4 μs per symbol
EHT-STF
4 μs
EHT-LTF
...
EHT-LTF
Variable durations per EHT-LTF symbol
Data
PE

FIG. 5A

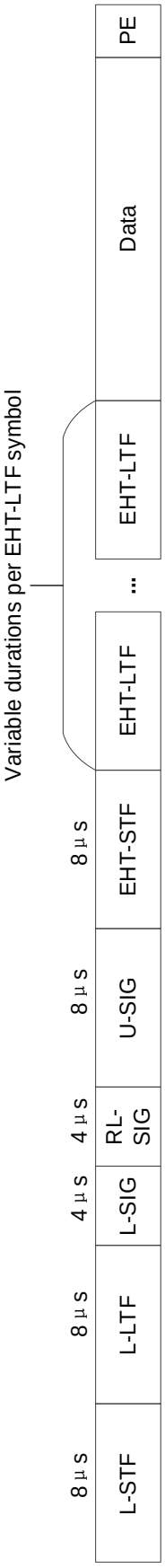

L-STF
8 μs
L-LTF
8 μs
L-SIG
4 μs
RL-SIG
4 μs
U-SIG
8 μs
EHT-STF
8 μs
EHT-LTF
...
EHT-LTF
Variable durations per EHT-LTF symbol
Data
PE

FIG. 5B

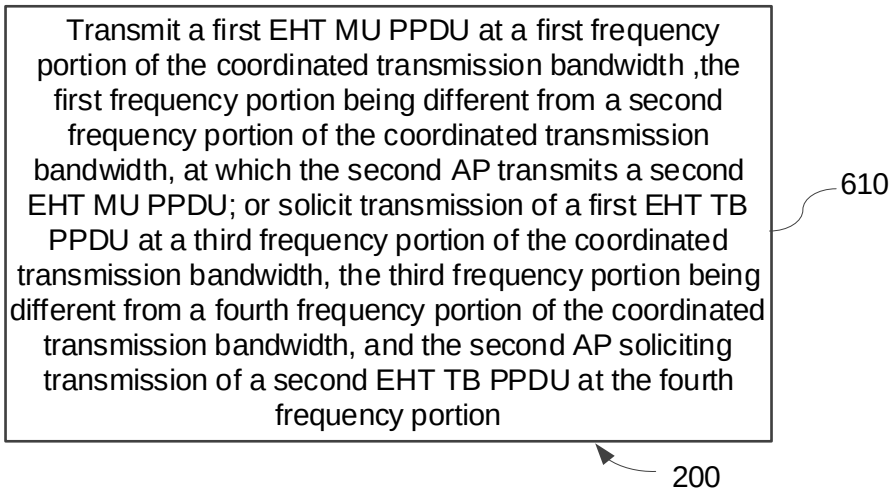


FIG. 6

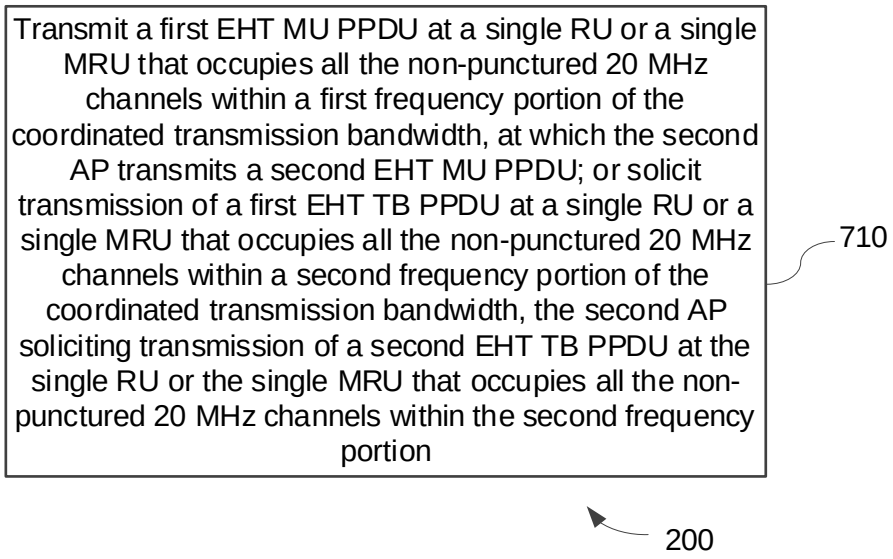


FIG. 7

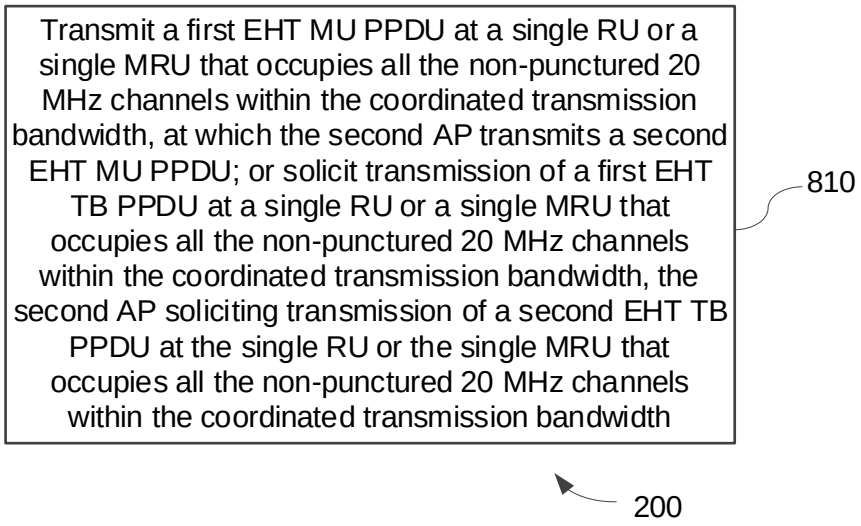


FIG. 8

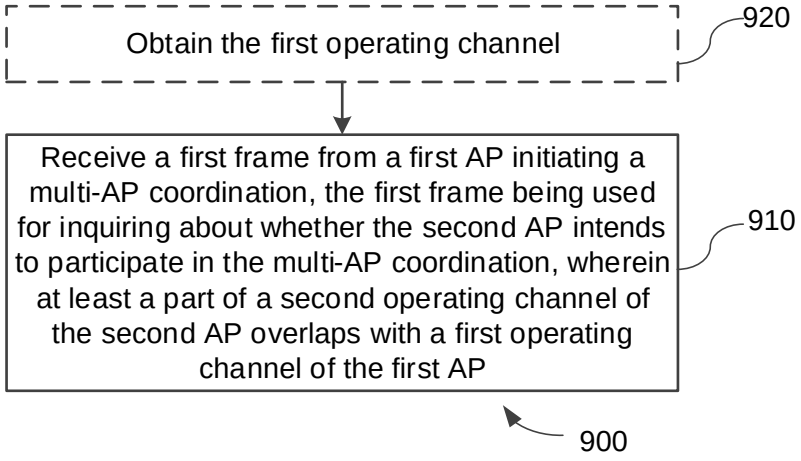


FIG. 9

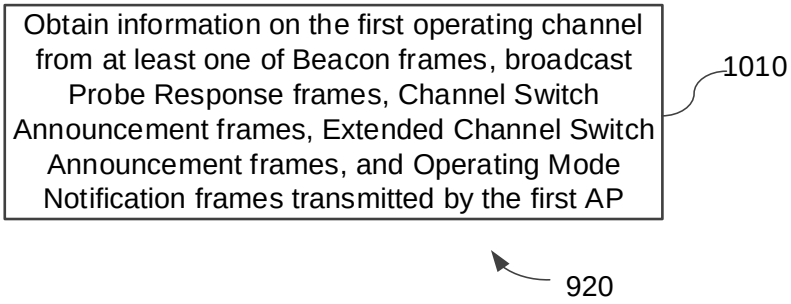


FIG. 10

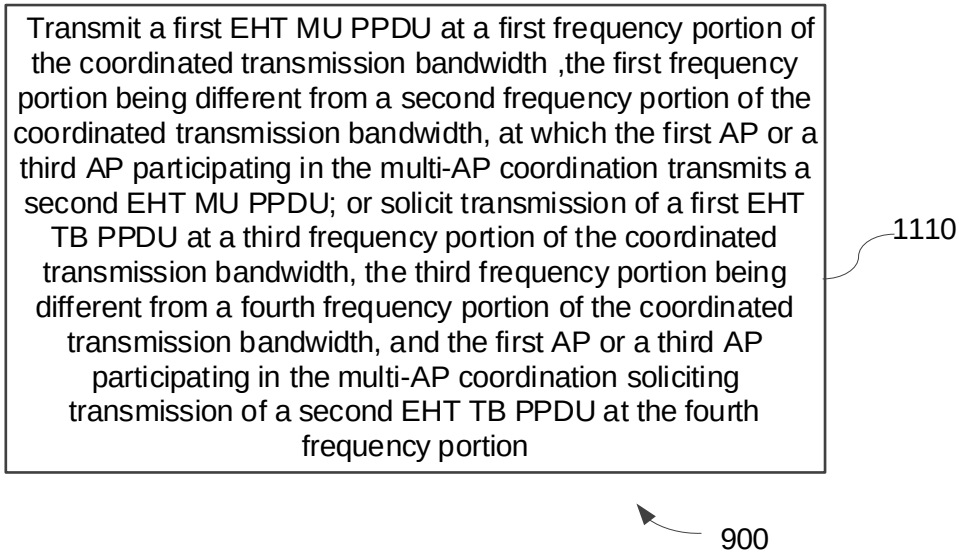


FIG. 11

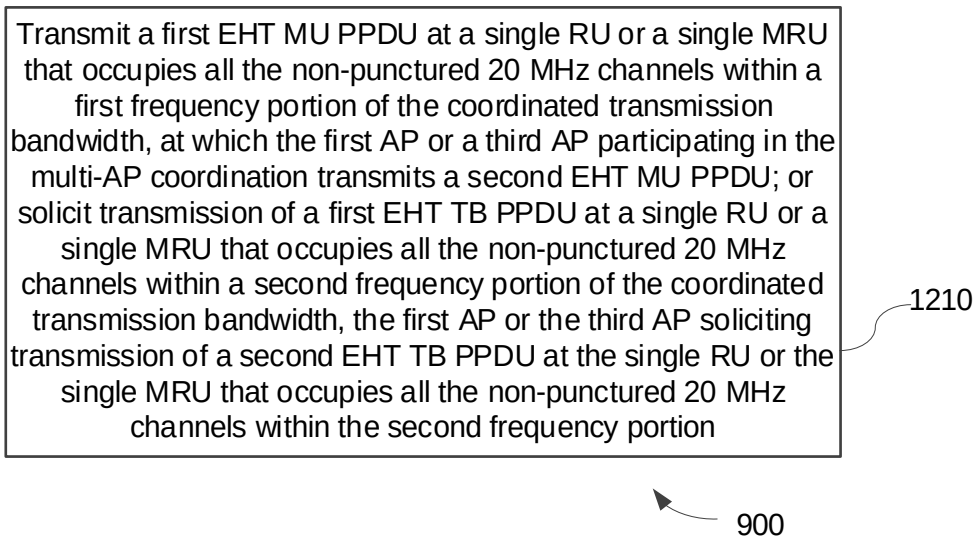


FIG. 12

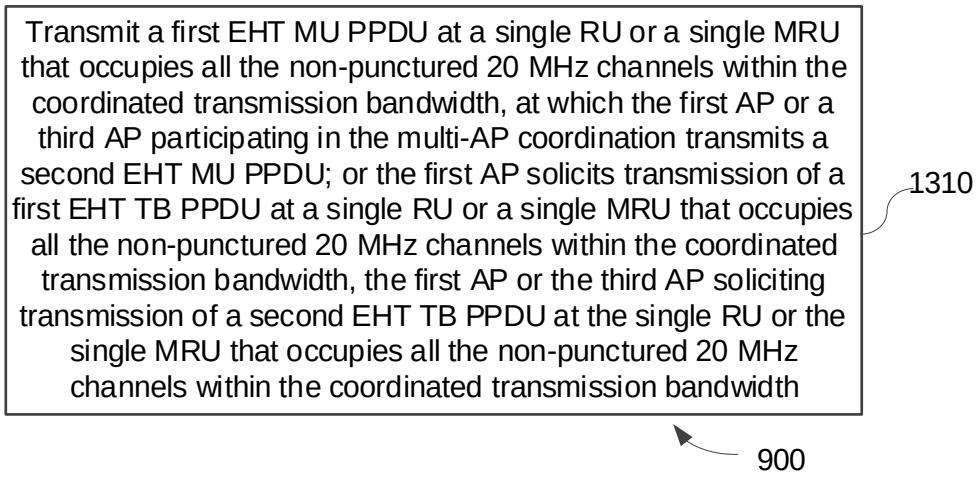


FIG. 13

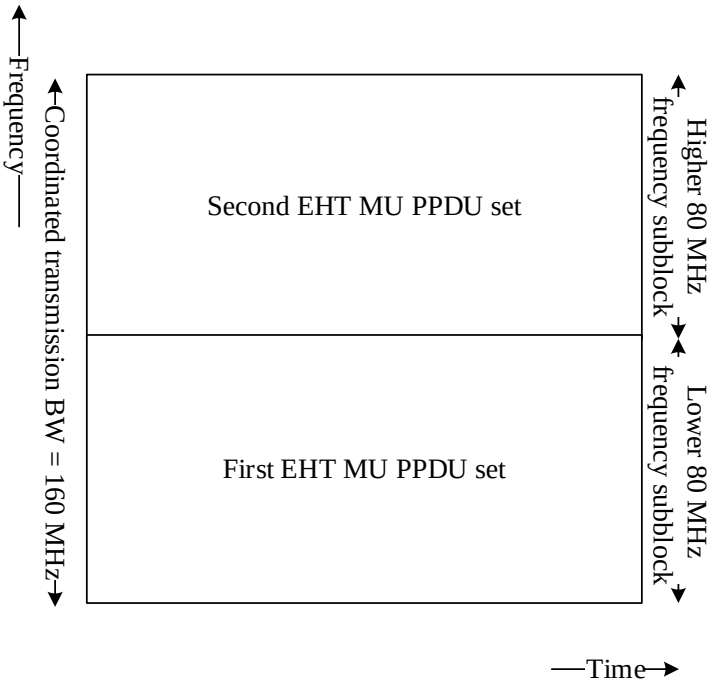


FIG. 14

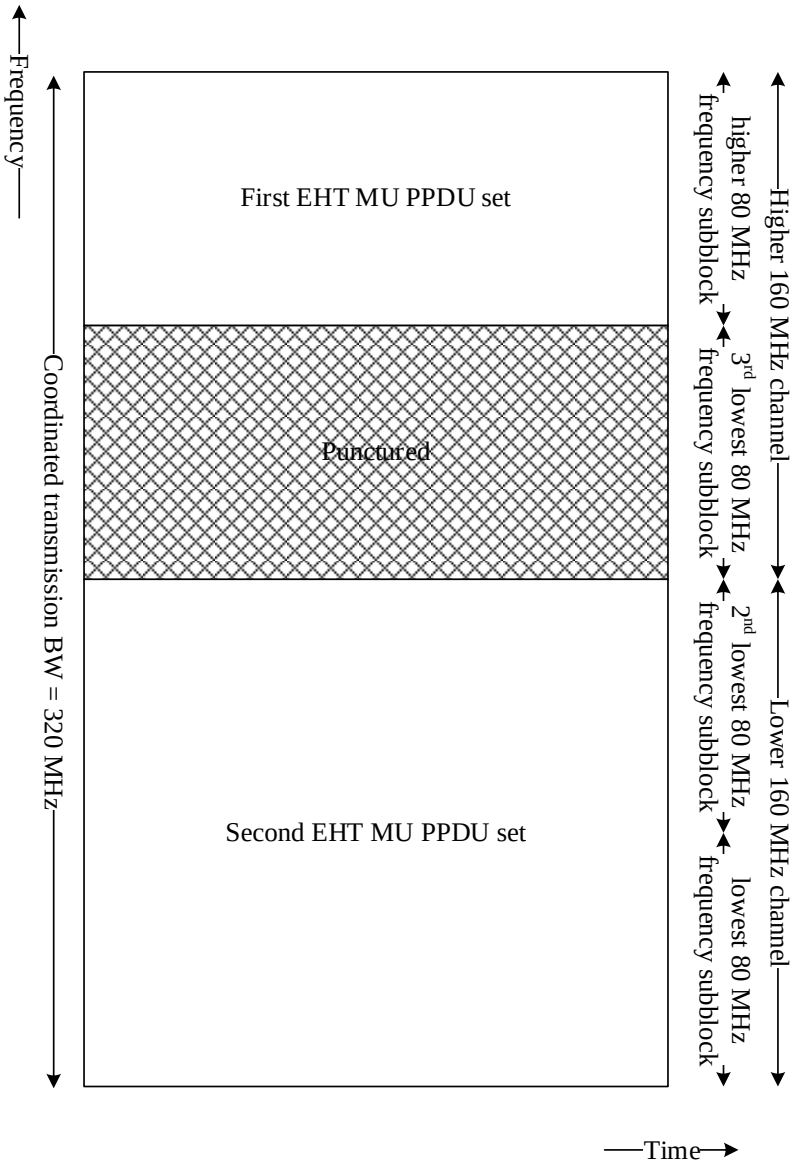

Frequency
Coordinated transmission BW = 320 MHz
First EHT MU PPDU set
Punctured
Second EHT MU PPDU set
Higher 160 MHz channel
Lower 160 MHz channel
higher 80 MHz frequency subblock
3rd lowest 80 MHz frequency subblock
2nd lowest 80 MHz frequency subblock
lowest 80 MHz frequency subblock
Time

FIG. 15A

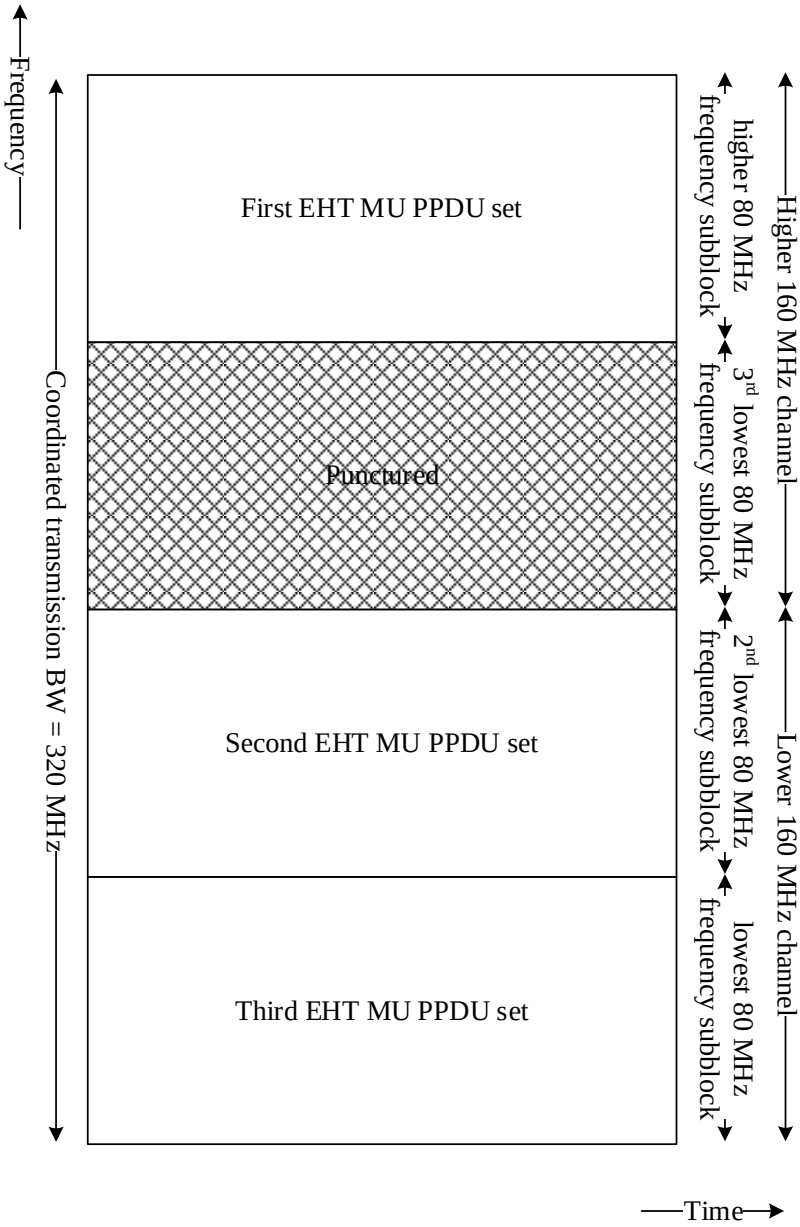

Frequency
Coordinated transmission BW = 320 MHz
First EHT MU PPDU set
Punctured
Second EHT MU PPDU set
Third EHT MU PPDU set
higher 80 MHz frequency subblock
3rd lowest 80 MHz frequency subblock
2nd lowest 80 MHz frequency subblock
lowest 80 MHz frequency subblock
Higher 160 MHz channel
Lower 160 MHz channel
Time

FIG. 15B

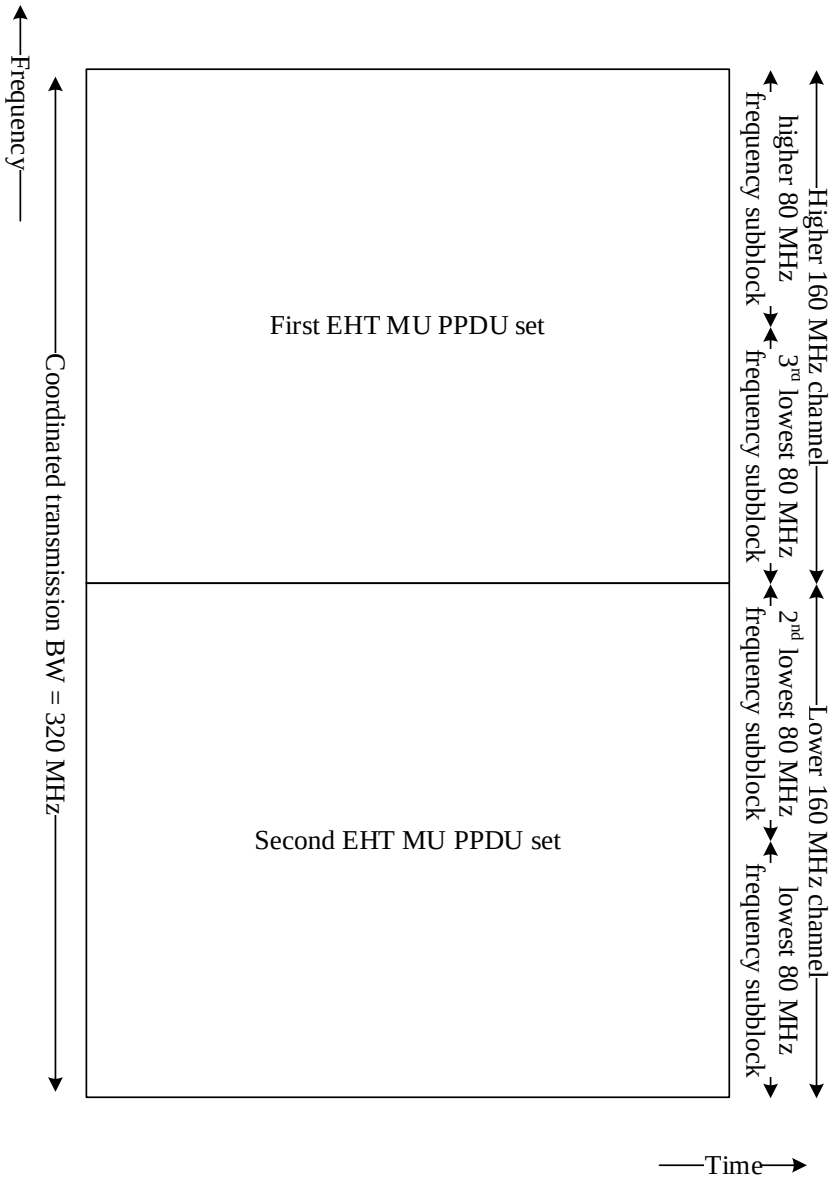

Frequency
Coordinated transmission BW = 320 MHz
First EHT MU PPDU set
Second EHT MU PPDU set
Higher 160 MHz channel
Lower 160 MHz channel
higher 80 MHz frequency subblock
3rd lowest 80 MHz frequency subblock
2nd lowest 80 MHz frequency subblock
lowest 80 MHz frequency subblock
Time

FIG. 15C

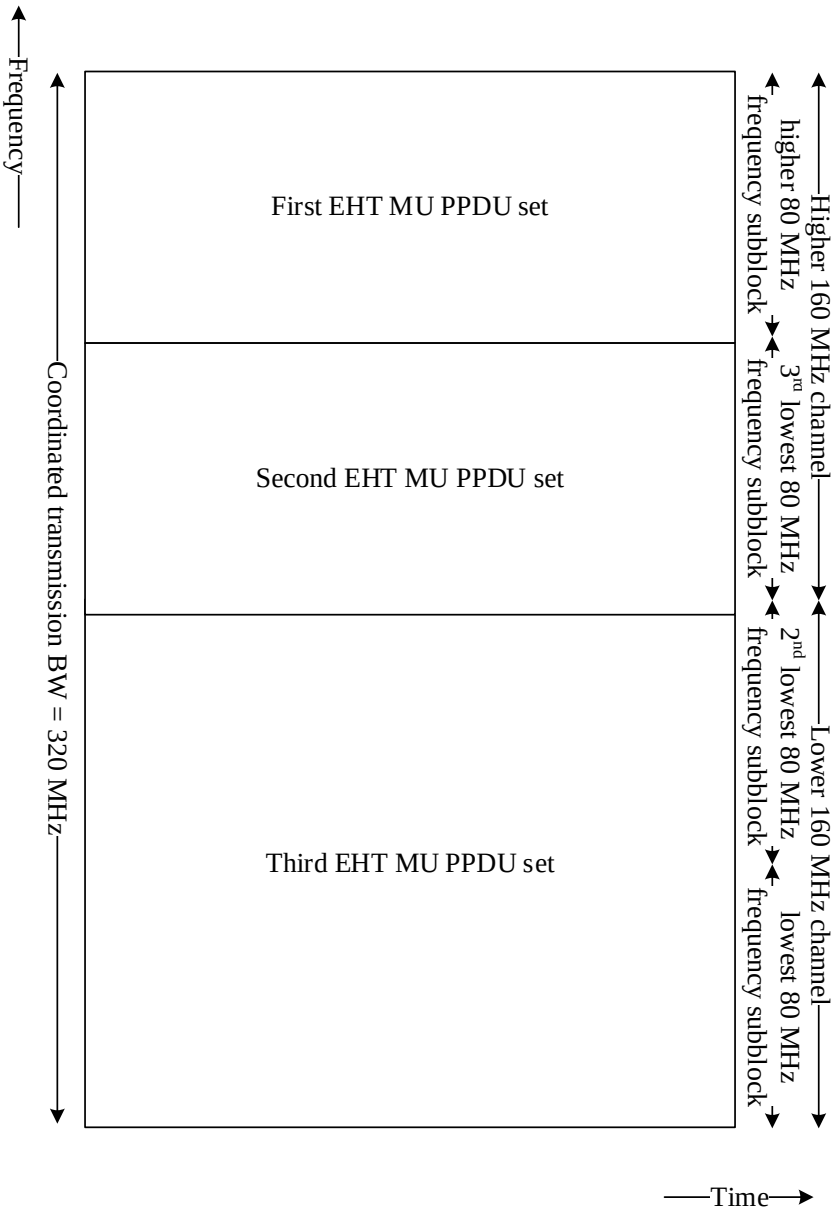

Frequency
Coordinated transmission BW = 320 MHz
First EHT MU PPDU set
Second EHT MU PPDU set
Third EHT MU PPDU set
Higher 160 MHz channel
higher 80 MHz frequency subblock
3rd lowest 80 MHz frequency subblock
Lower 160 MHz channel
2nd lowest 80 MHz frequency subblock
lowest 80 MHz frequency subblock
Time

FIG. 15D

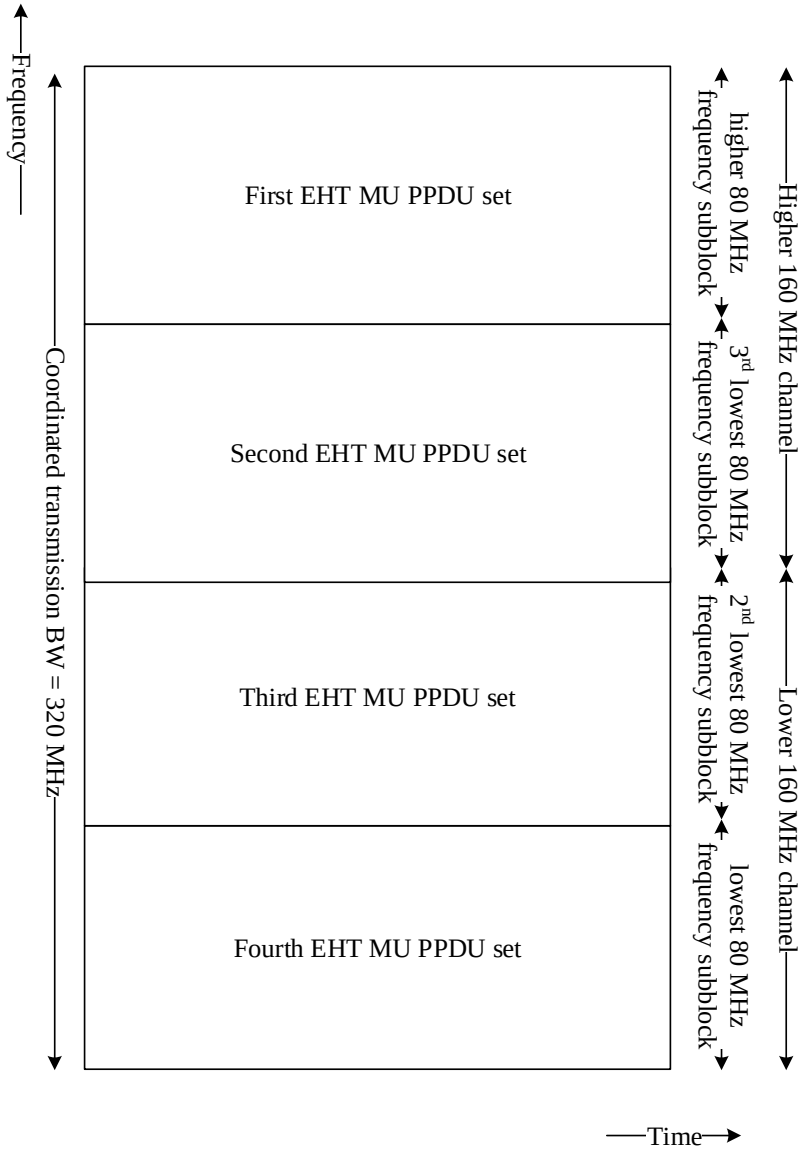

Frequency
Coordinated transmission BW = 320 MHz
First EHT MU PPDU set
Second EHT MU PPDU set
Third EHT MU PPDU set
Fourth EHT MU PPDU set
Higher 160 MHz channel
Lower 160 MHz channel
higher 80 MHz frequency subblock
3rd lowest 80 MHz frequency subblock
2nd lowest 80 MHz frequency subblock
lowest 80 MHz frequency subblock
Time

FIG. 15E

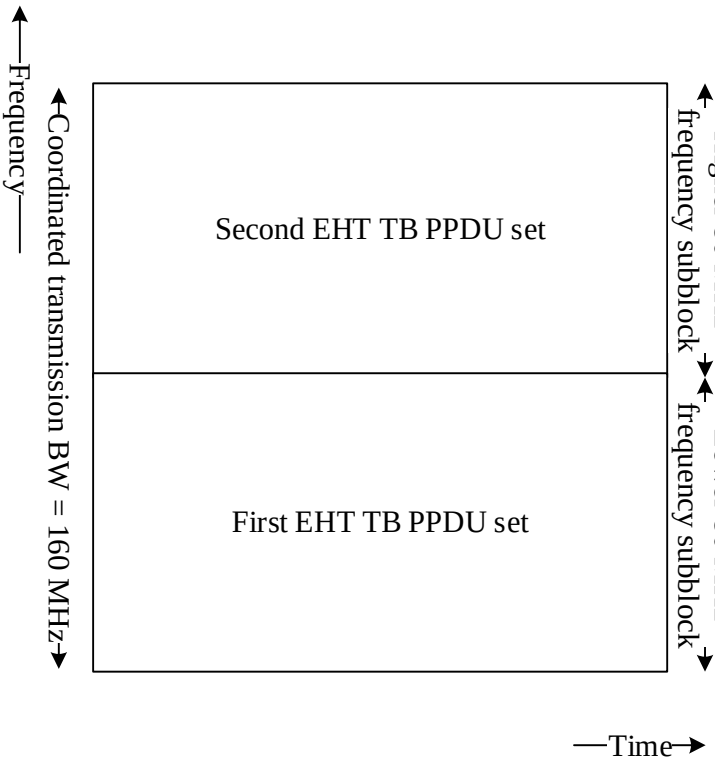

Frequency
Coordinated transmission BW = 160 MHz
Second EHT TB PPDU set
First EHT TB PPDU set
Higher 80 MHz frequency subblock
Lower 80 MHz frequency subblock
Time

FIG. 16

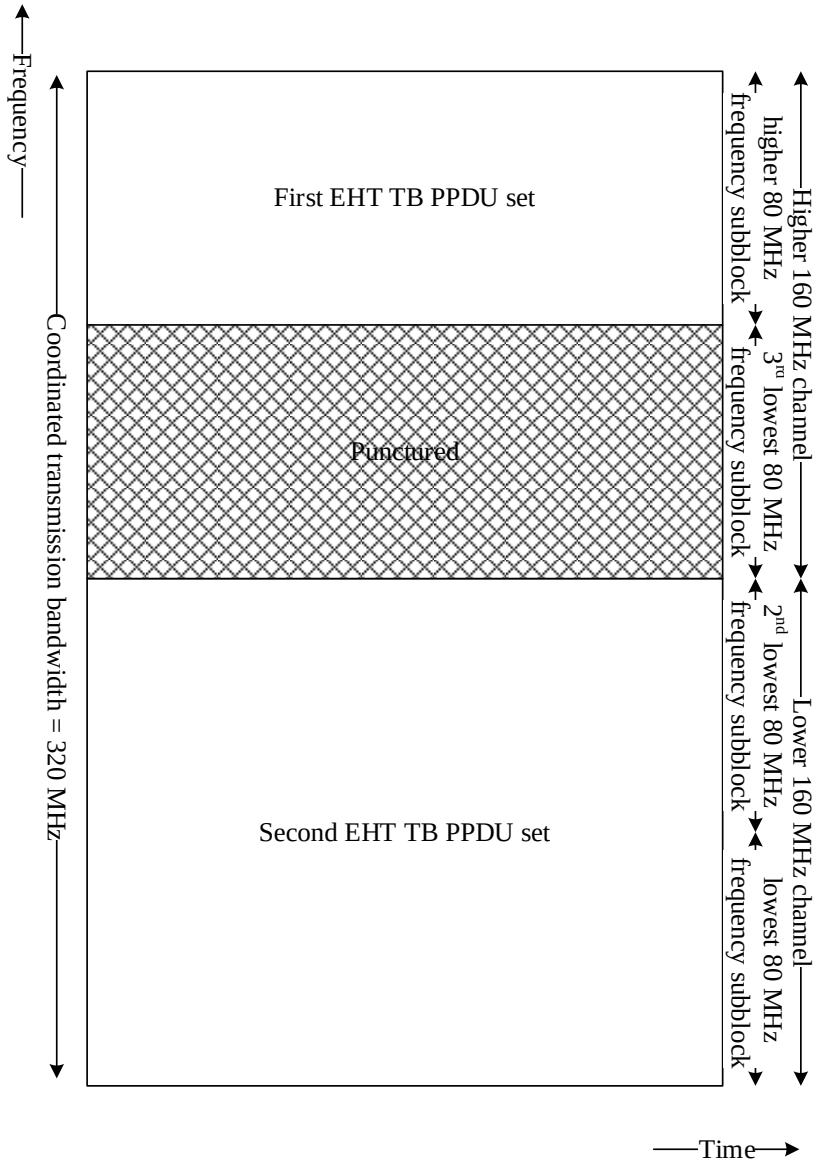

Frequency
Coordinated transmission bandwidth = 320 MHz
First EHT TB PPDU set
Punctured
Second EHT TB PPDU set
Higher 160 MHz channel
Lower 160 MHz channel
higher 80 MHz frequency subblock
3rd lowest 80 MHz frequency subblock
2nd lowest 80 MHz frequency subblock
lowest 80 MHz frequency subblock
Time

FIG. 17A

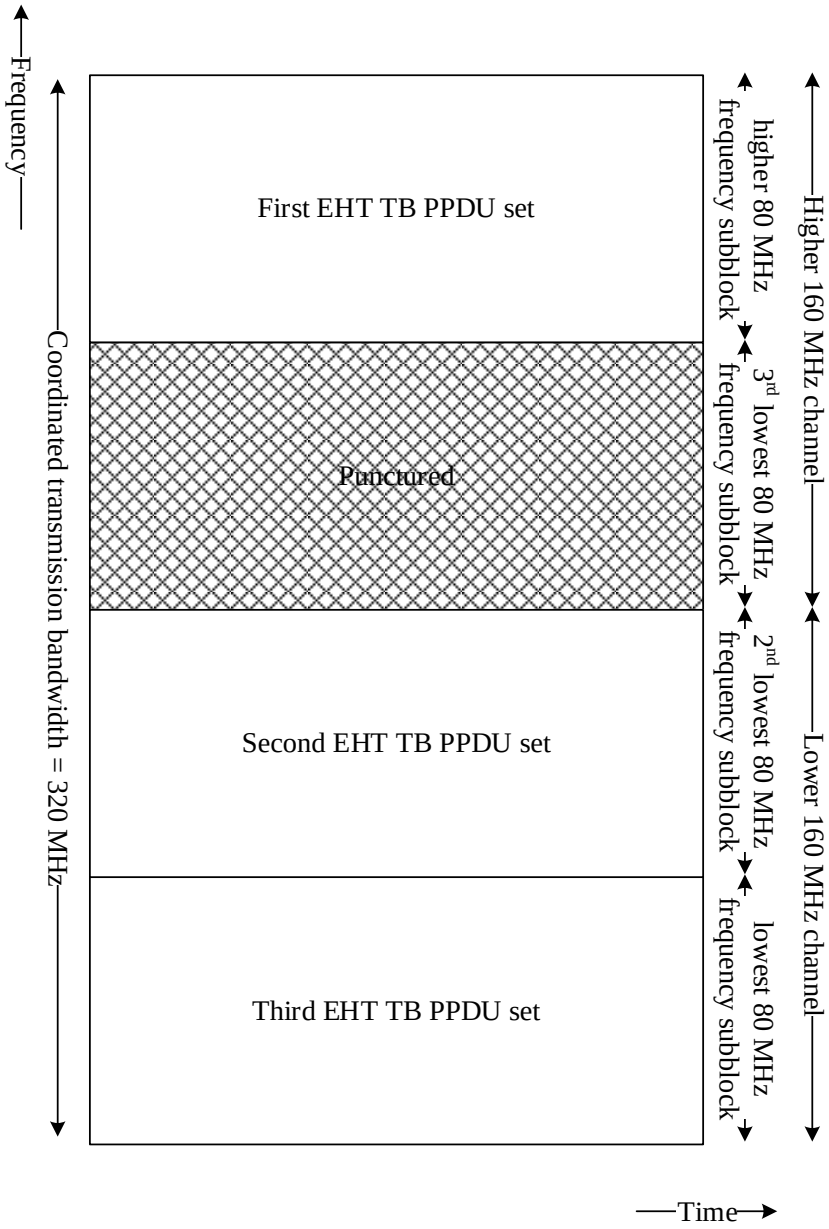

Frequency
Coordinated transmission bandwidth = 320 MHz
First EHT TB PPDU set
Punctured
Second EHT TB PPDU set
Third EHT TB PPDU set
higher 80 MHz frequency subblock
3rd lowest 80 MHz frequency subblock
2nd lowest 80 MHz frequency subblock
lowest 80 MHz frequency subblock
Higher 160 MHz channel
Lower 160 MHz channel
Time

FIG. 17B

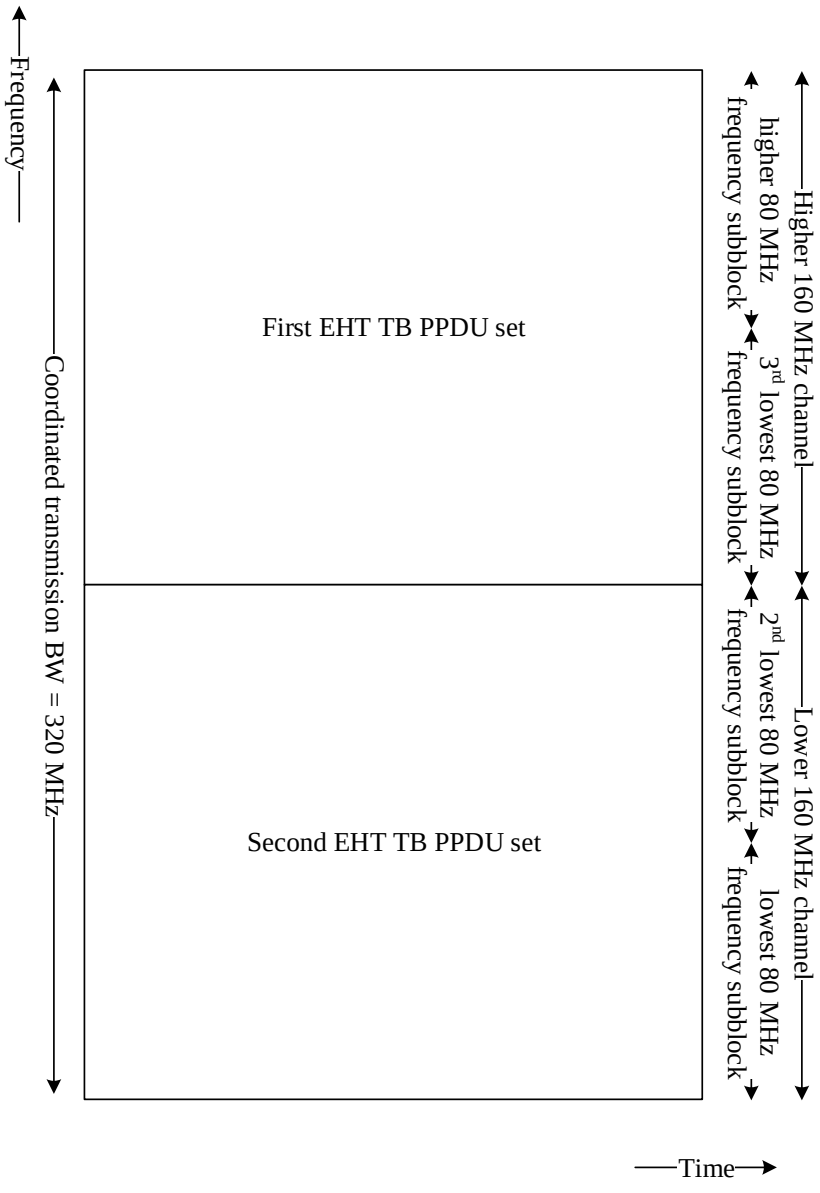

Frequency
Coordinated transmission BW = 320 MHz
Higher 160 MHz channel
Lower 160 MHz channel
higher 80 MHz frequency subblock
3rd lowest 80 MHz frequency subblock
2nd lowest 80 MHz frequency subblock
lowest 80 MHz frequency subblock
First EHT TB PPDU set
Second EHT TB PPDU set
Time

FIG. 17C

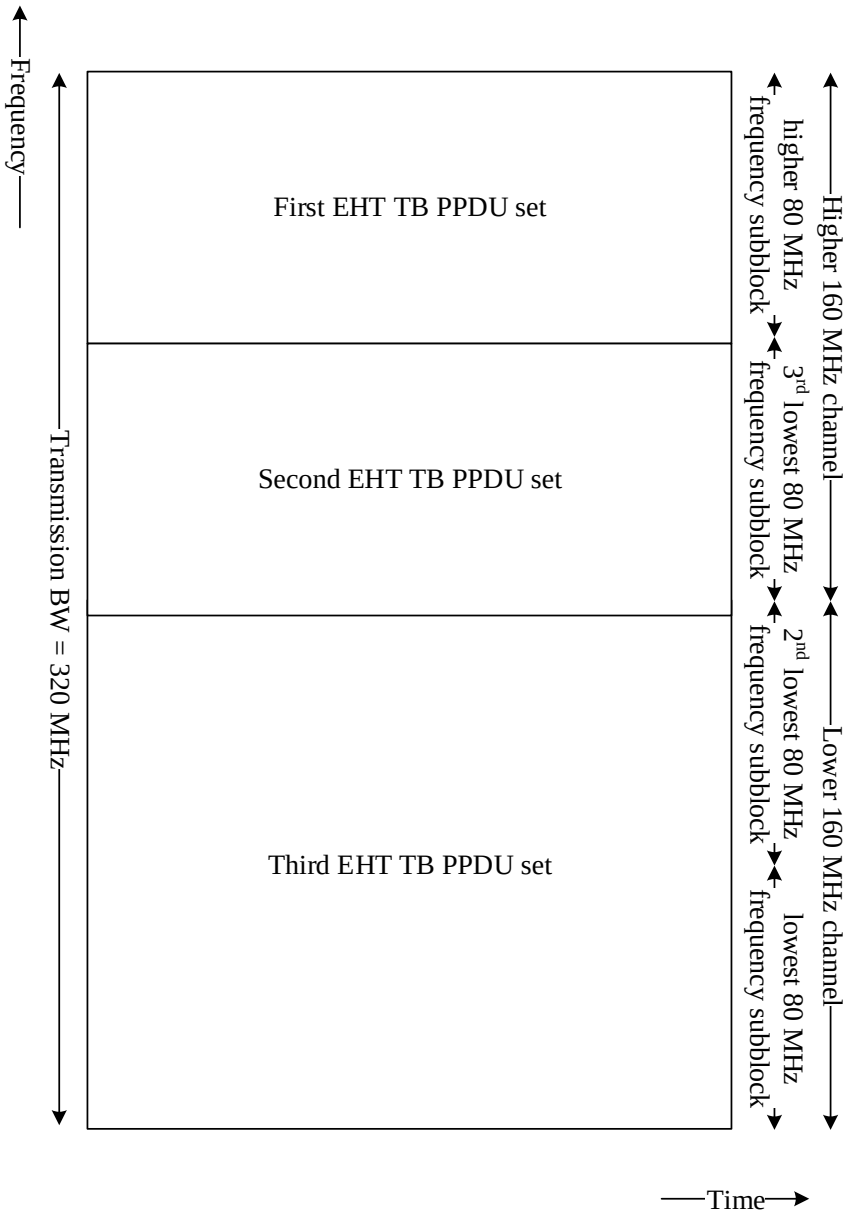

Frequency
Transmission BW = 320 MHz
First EHT TB PPDU set
Second EHT TB PPDU set
Third EHT TB PPDU set
Higher 160 MHz channel
Lower 160 MHz channel
higher 80 MHz frequency subblock
3rd lowest 80 MHz frequency subblock
2nd lowest 80 MHz frequency subblock
lowest 80 MHz frequency subblock
Time

FIG. 17D

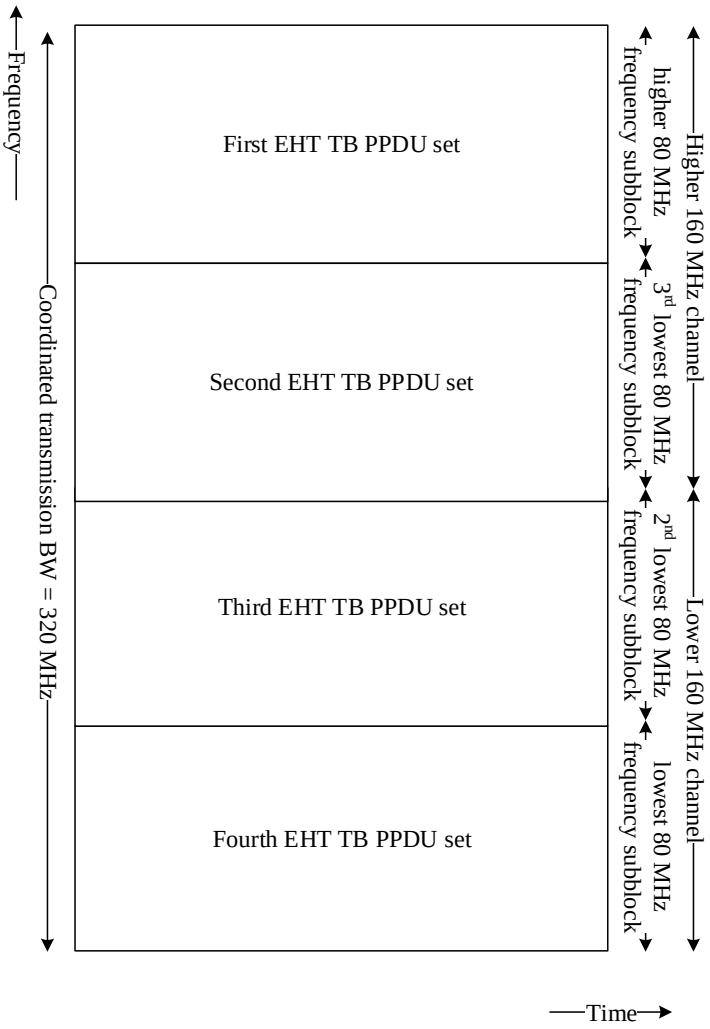
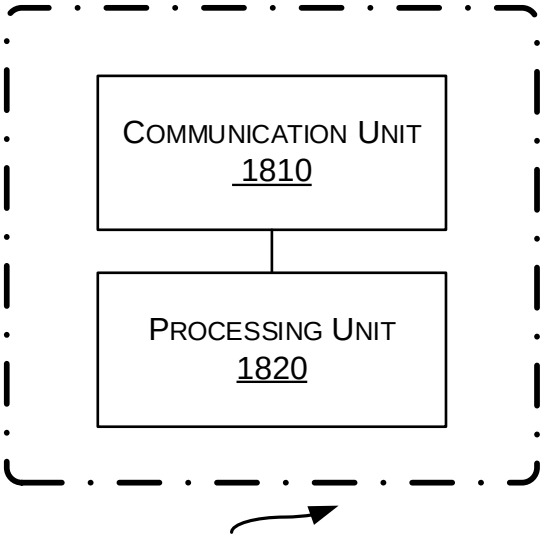
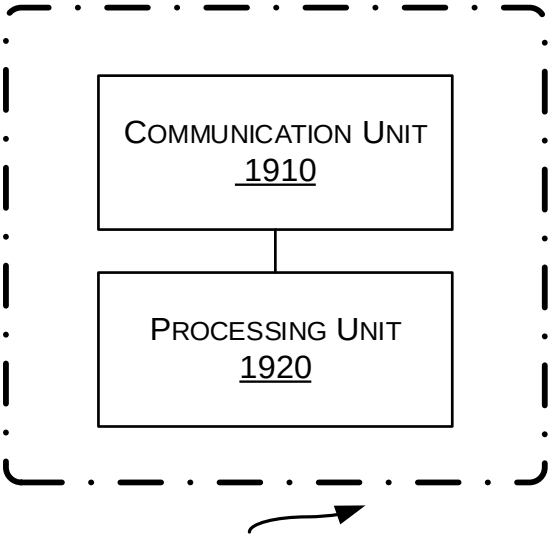

Frequency
Coordinated transmission BW = 320 MHz
First EHT TB PPDU set
Second EHT TB PPDU set
Third EHT TB PPDU set
Fourth EHT TB PPDU set
Higher 160 MHz channel
Lower 160 MHz channel
higher 80 MHz frequency subblock
3rd lowest 80 MHz frequency subblock
2nd lowest 80 MHz frequency subblock
lowest 80 MHz frequency subblock
Time

FIG. 17E



WIRELESS COMMUNICATION APPARATUS
1800

FIG. 18



WIRELESS COMMUNICATION APPARATUS
1900

FIG. 19

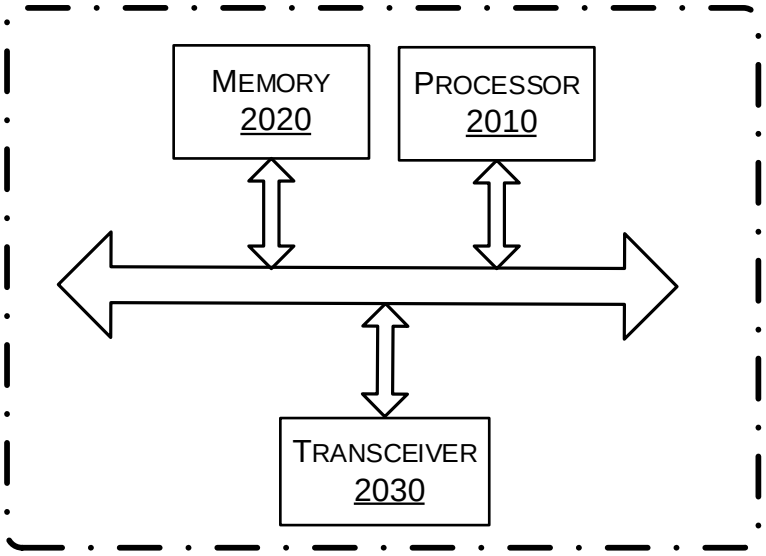

MEMORY
2020
PROCESSOR
2010
TRANSCEIVER
2030
COMMUNICATION DEVICE
2000

FIG. 20

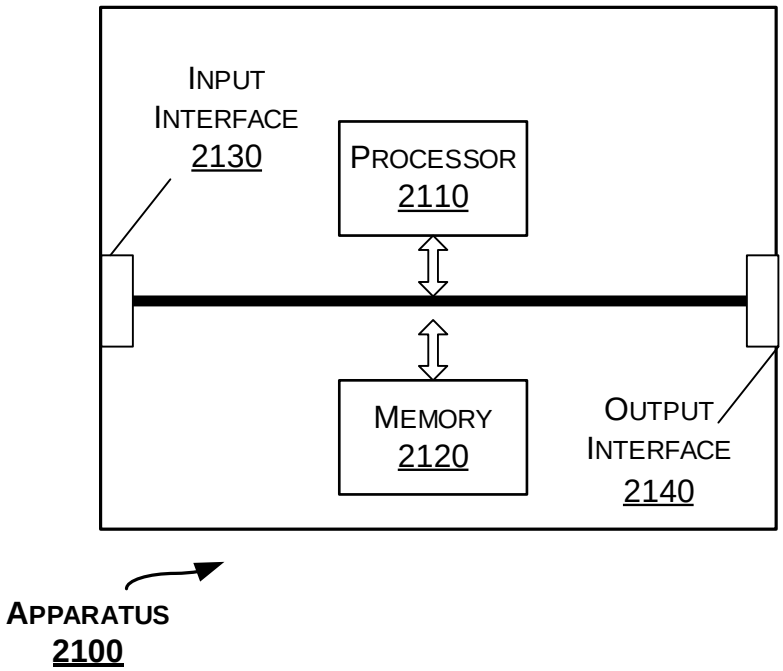

INPUT
INTERFACE
2130
PROCESSOR
2110
MEMORY
2120
OUTPUT
INTERFACE
2140
APPARATUS
2100

FIG. 21

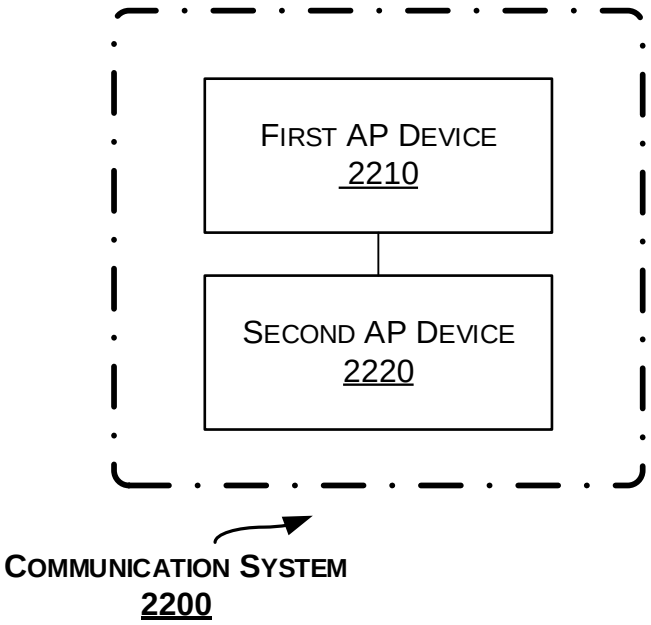

FIRST AP DEVICE
2210
SECOND AP DEVICE
2220
COMMUNICATION SYSTEM
2200

FIG. 22