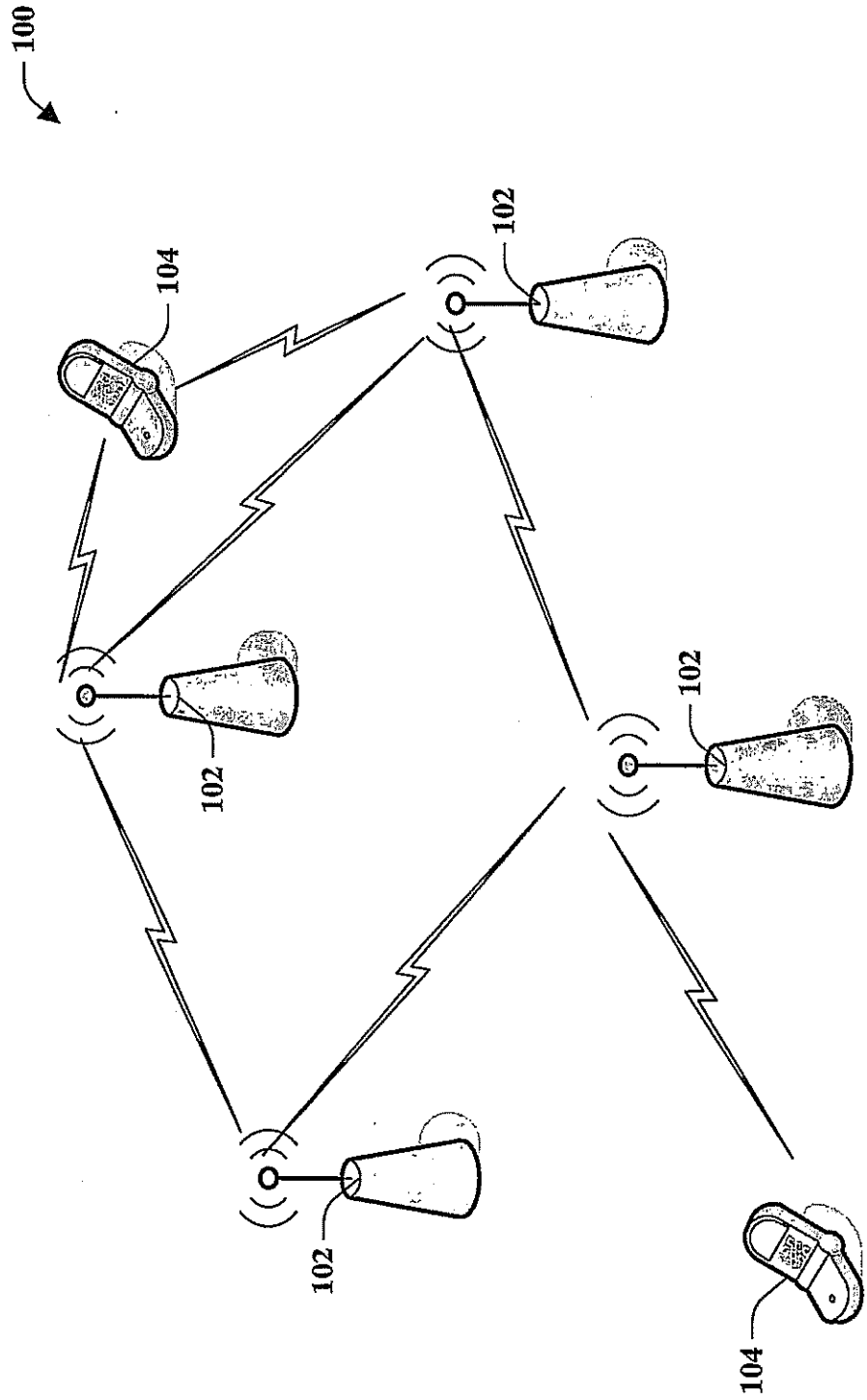


FIG. 1

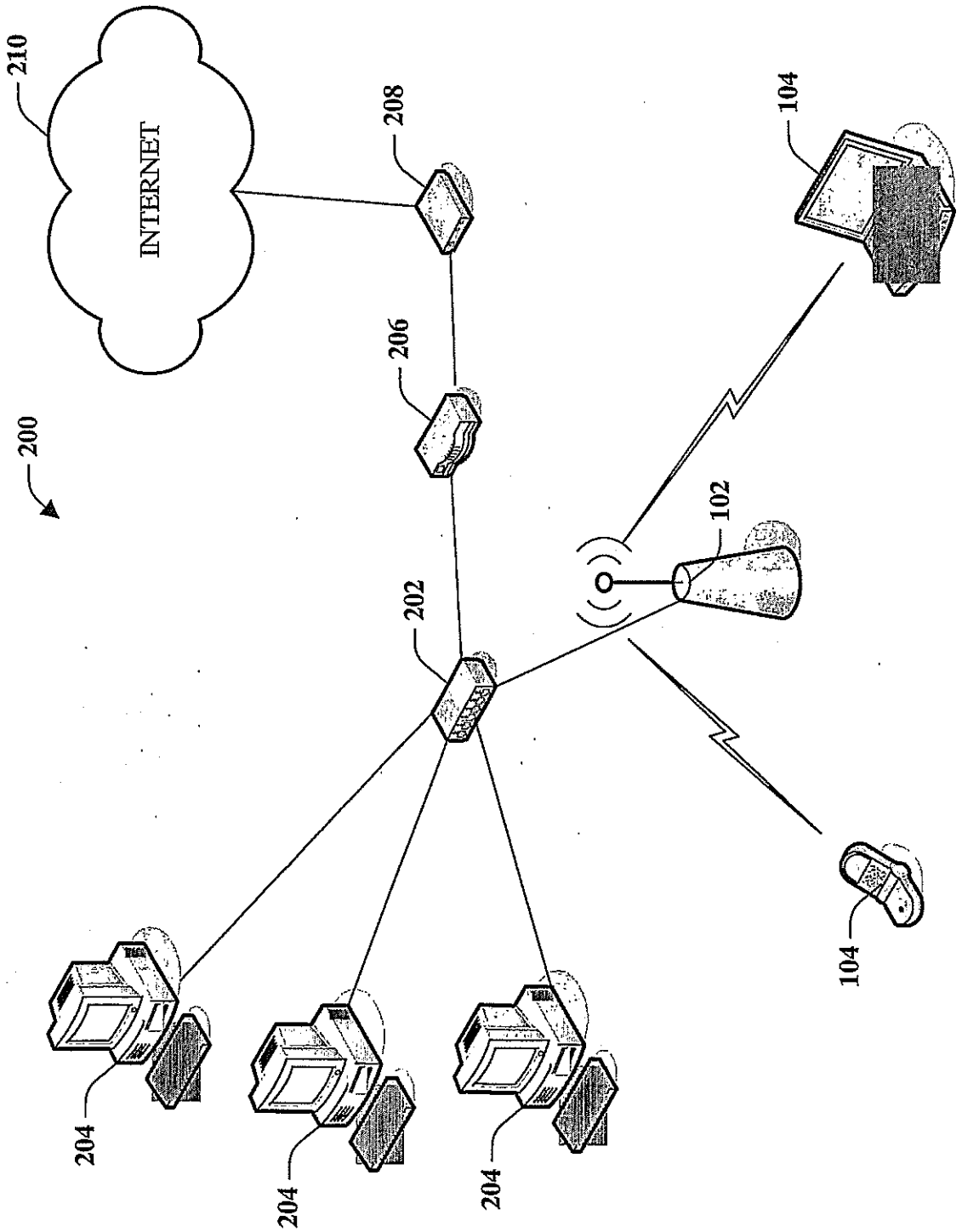


FIG. 2

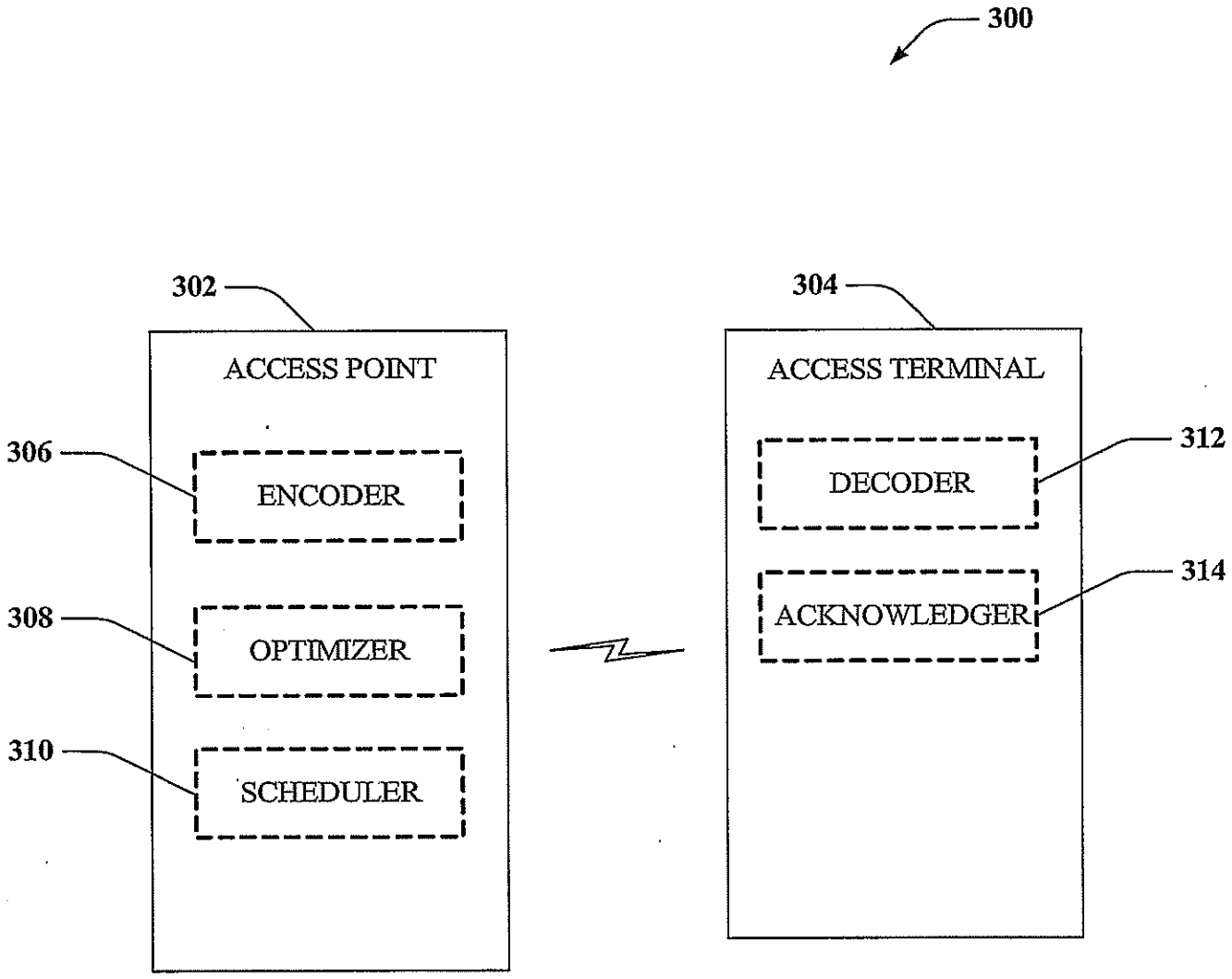

300
302
ACCESS POINT
306
ENCODER
308
OPTIMIZER
310
SCHEDULER
304
ACCESS TERMINAL
312
DECODER
314
ACKNOWLEDGER

FIG. 3

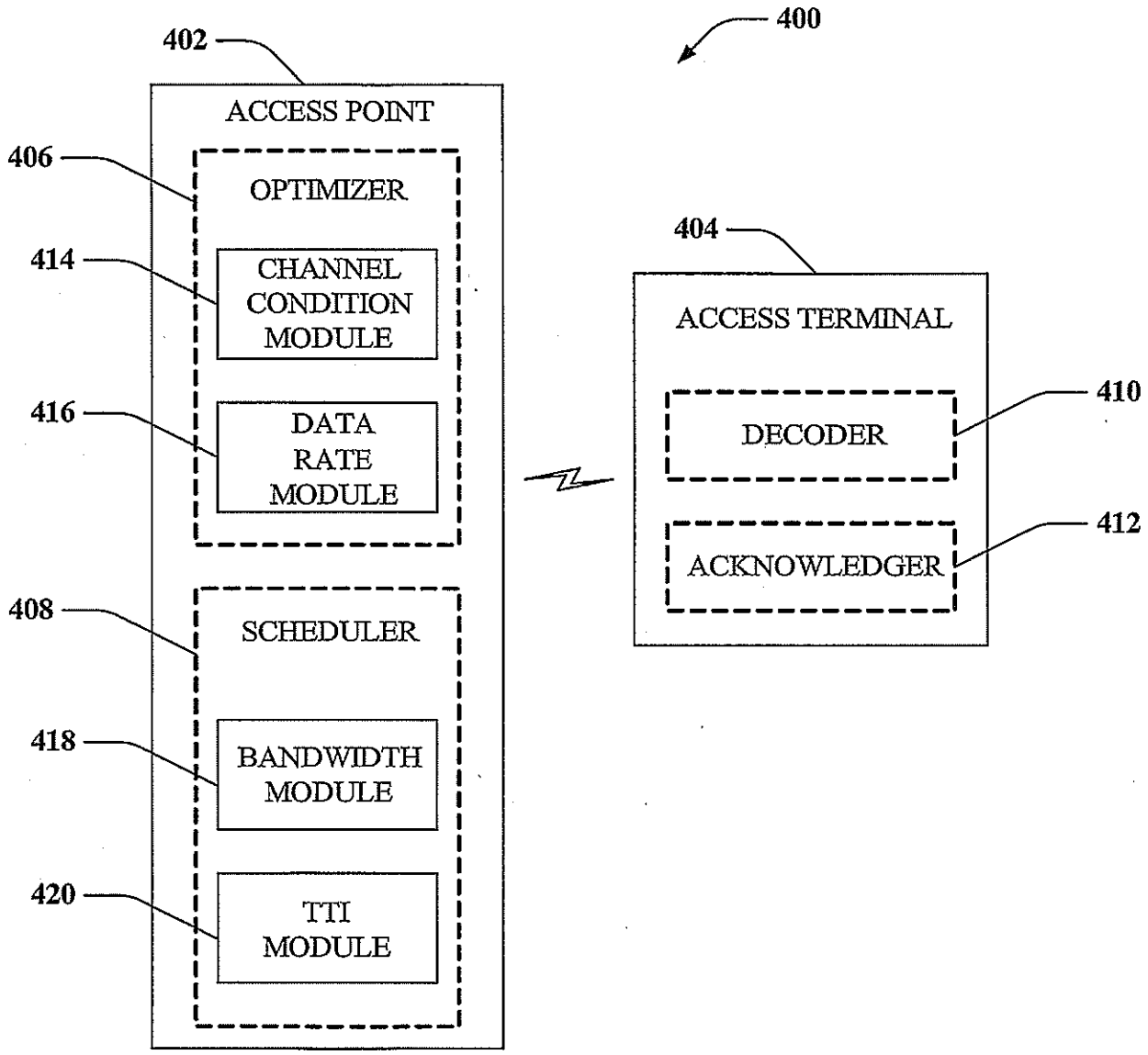

400
402
ACCESS POINT
406
OPTIMIZER
414
CHANNEL CONDITION MODULE
416
DATA RATE MODULE
408
SCHEDULER
418
BANDWIDTH MODULE
420
TTI MODULE
404
ACCESS TERMINAL
410
DECODER
412
ACKNOWLEDGER

FIG. 4

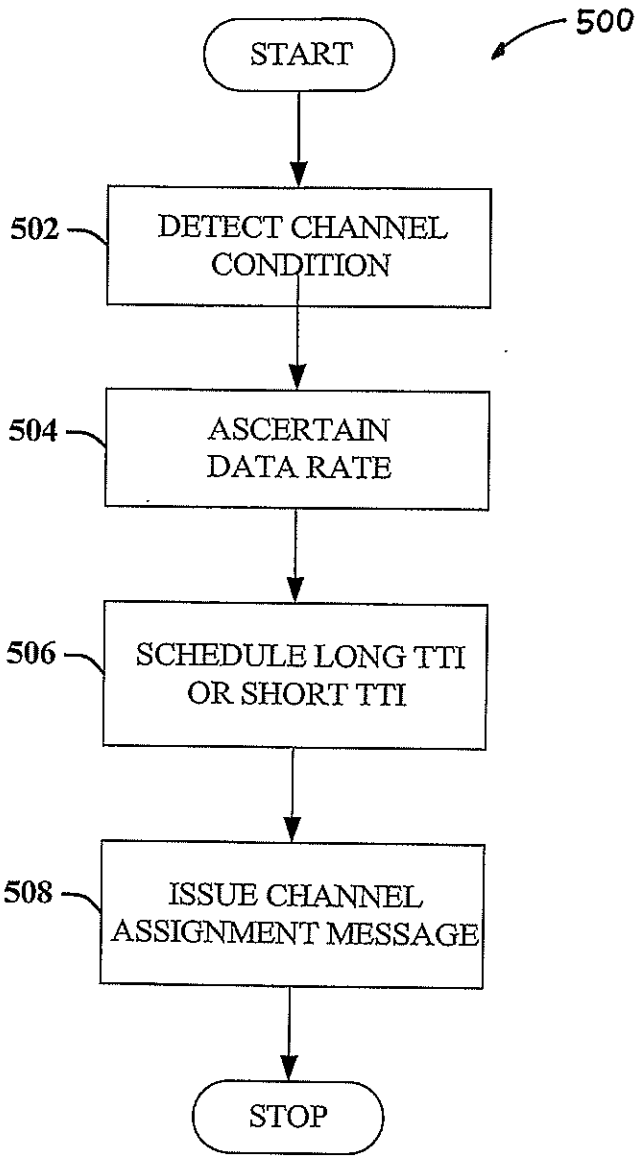

500
START
502
DETECT CHANNEL CONDITION
504
ASCERTAIN DATA RATE
506
SCHEDULE LONG TTI OR SHORT TTI
508
ISSUE CHANNEL ASSIGNMENT MESSAGE
STOP

FIG. 5

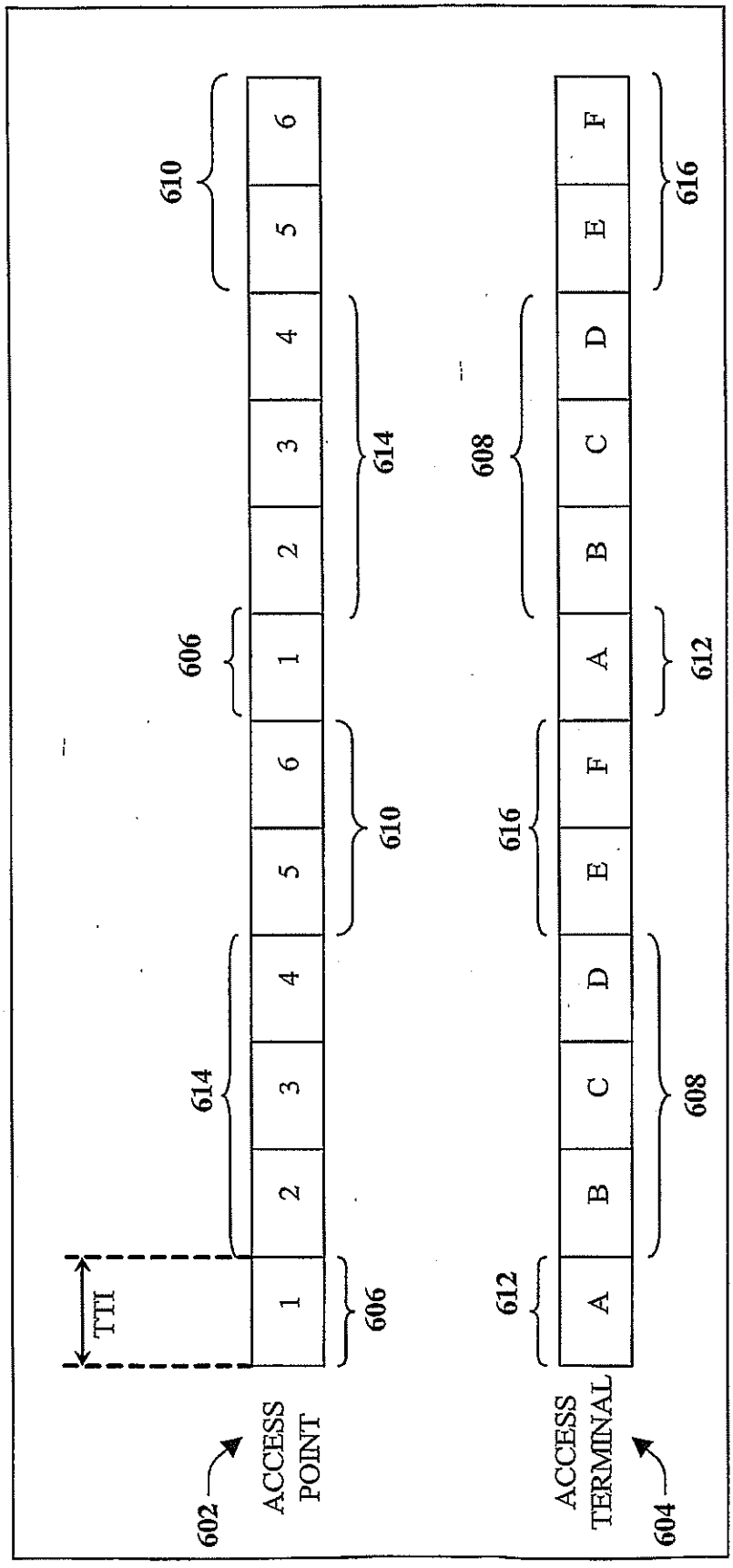

602
ACCESS POINT
604
ACCESS TERMINAL
TTI
1
2
3
4
5
6
A
B
C
D
E
F
606
608
610
612
614
616

FIG. 6

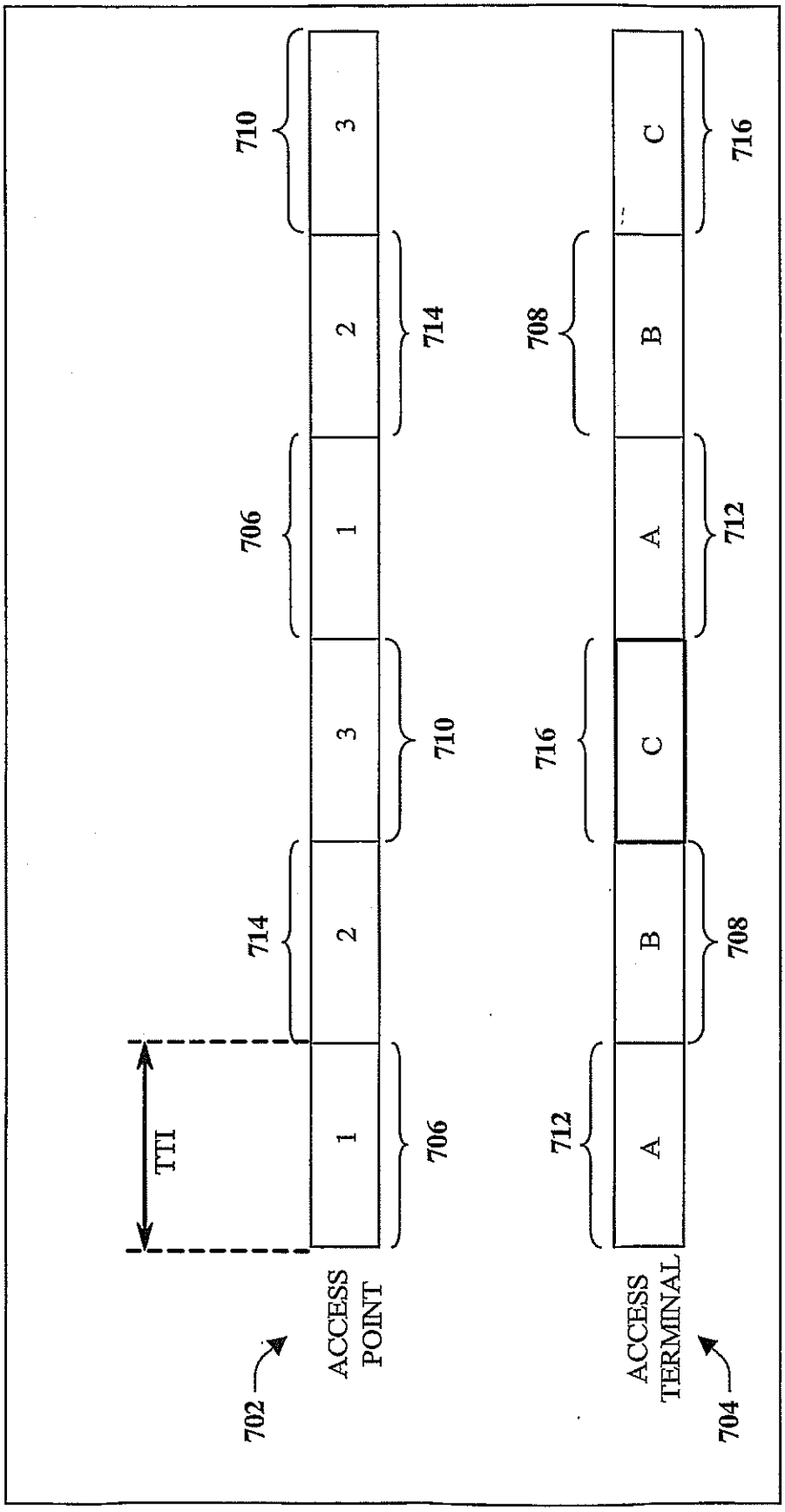

TTI
1
2
3
A
B
C
706
714
710
712
708
716
ACCESS POINT
ACCESS TERMINAL
702
704

FIG. 7

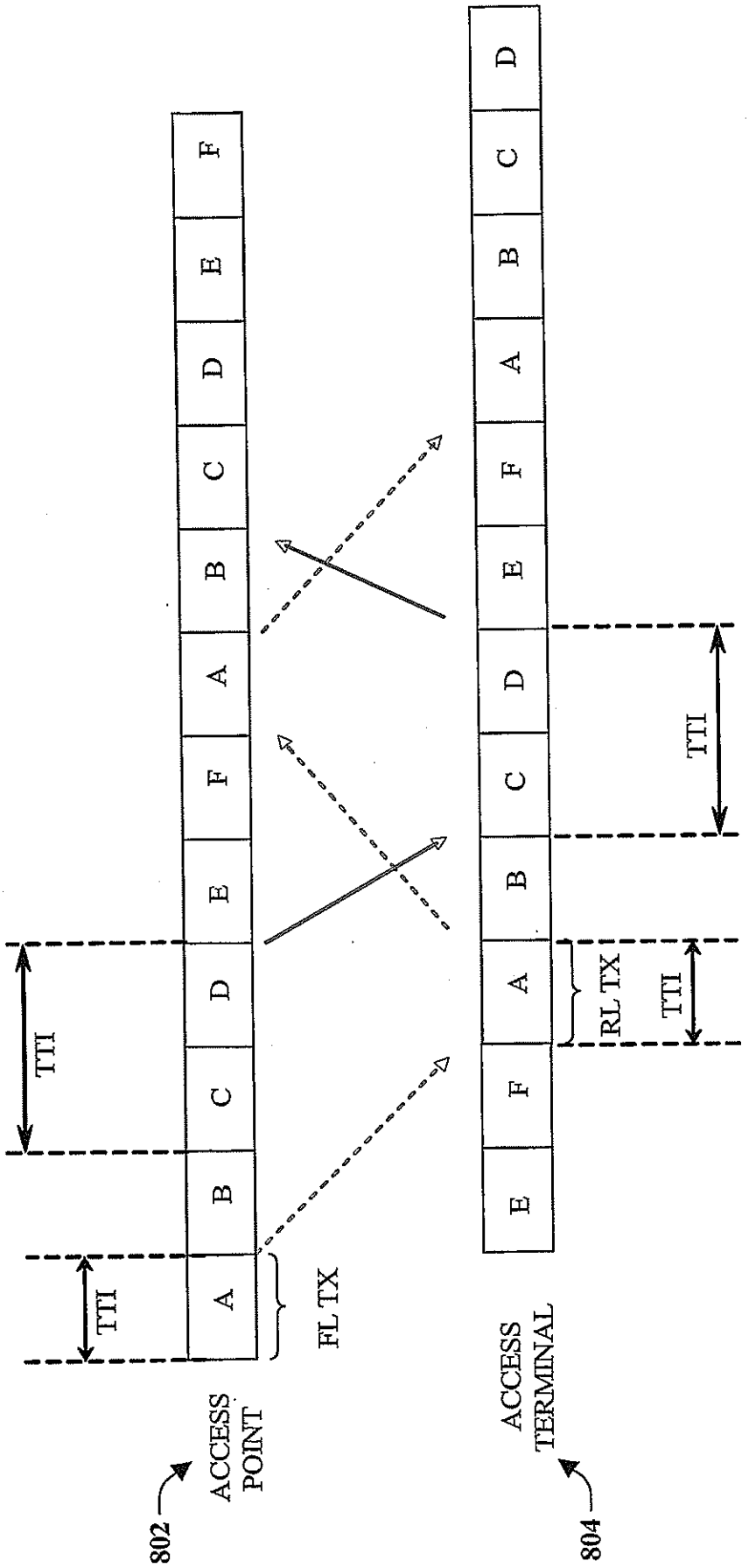

A
B
C
D
E
F
TTI
TTI
FL TX
RL TX
TTI
ACCESS POINT
802
ACCESS TERMINAL
804

FIG. 8

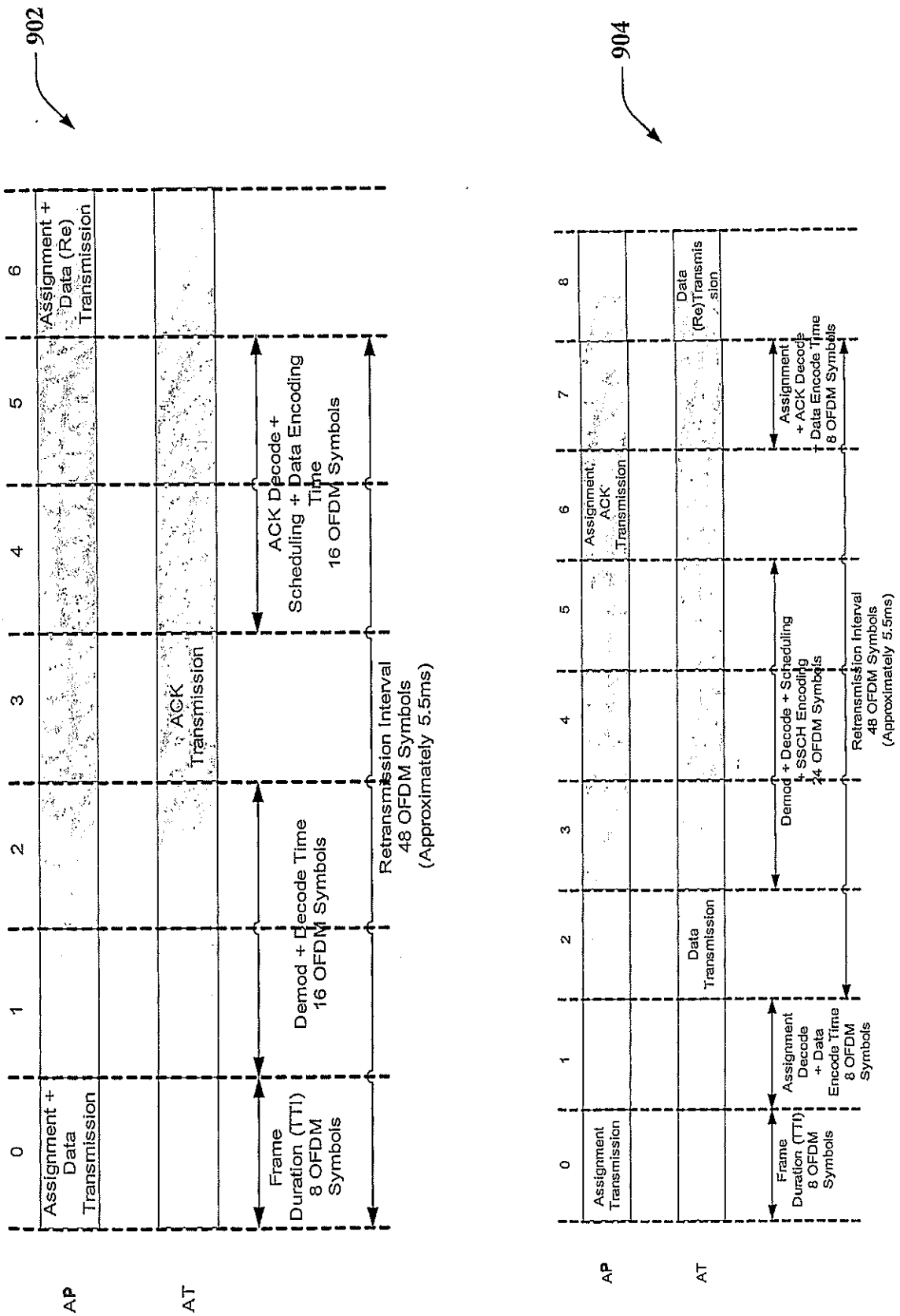

902
AP
AT
0
1
2
3
4
5
6
Assignment + Data Transmission
Assignment + Data (Re) Transmission
ACK Transmission
Frame Duration (TTI) 8 OFDM Symbols
Demod + Decode Time 16 OFDM Symbols
ACK Decode + Scheduling + Data Encoding Time 16 OFDM Symbols
Retransmission Interval 48 OFDM Symbols (Approximately 5.5ms)
904
AP
AT
0
1
2
3
4
5
6
7
8
Assignment Transmission
Data Transmission
Assignment, ACK Transmission
Data (Re)Transmis sion
Frame Duration (TTI) 8 OFDM Symbols
Assignment Decode + Data Encode Time 8 OFDM Symbols
Demod + Decode + Scheduling + SSCH Encoding 24 OFDM Symbols
Assignment + ACK Decode + Data Encode Time 8 OFDM Symbols
Retransmission Interval 48 OFDM Symbols (Approximately 5.5ms)

FIG. 9

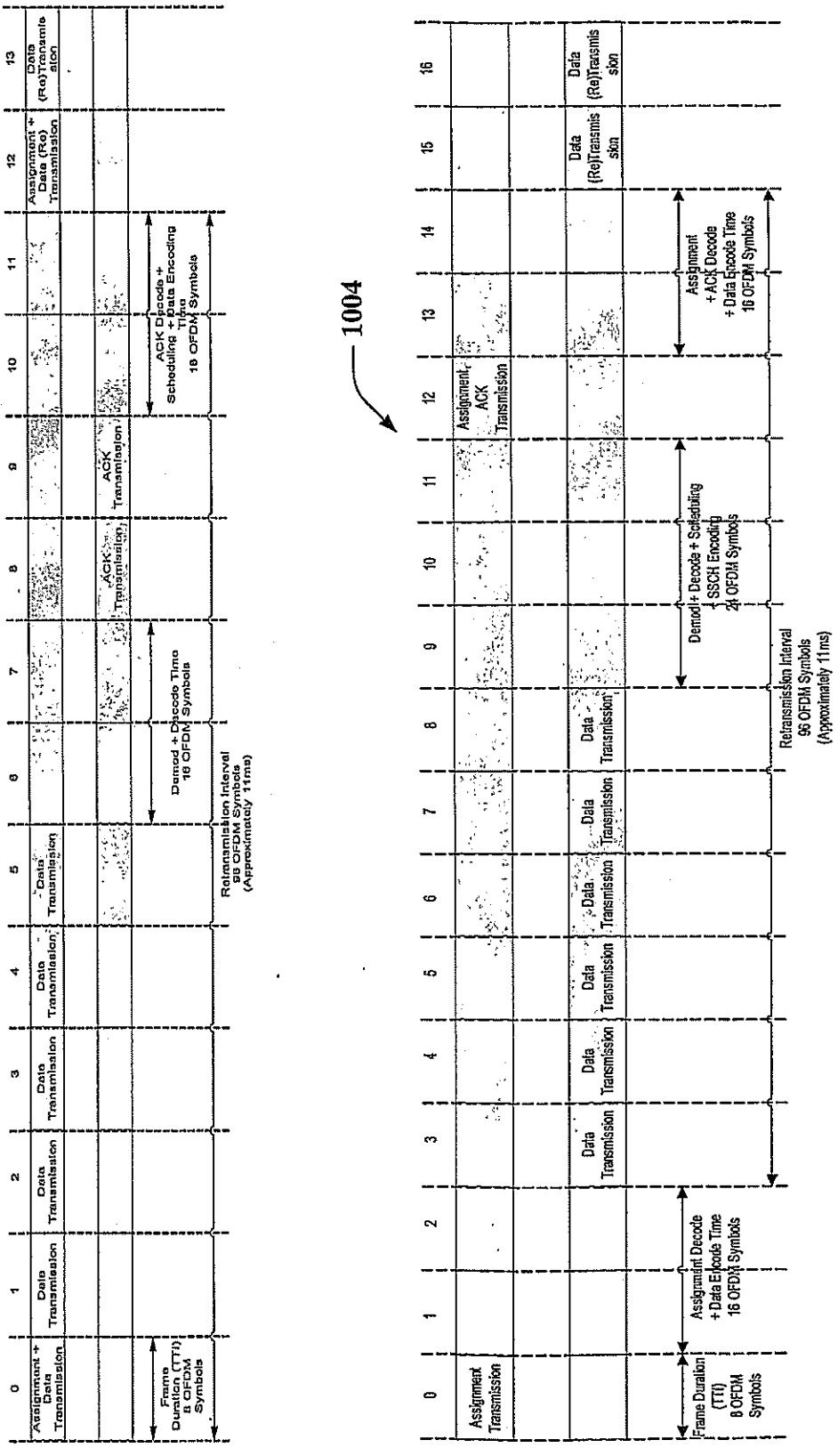

1002
1004
AN
AT
Assignment + Data Transmission
Data Transmission
ACK Transmission
Assignment ACK Transmission
Assignment + Data (Re) Transmission
Data (Re)Transmission
Frame Duration (TTI) 8 OFDM Symbols
Demod + Decode Time 16 OFDM Symbols
Retransmission Interval 96 OFDM Symbols (Approximately 11ms)
ACK Decode + Scheduling + Data Encoding Time 16 OFDM Symbols
Assignment Decode + Data Encode Time 16 OFDM Symbols
Demod + Decode + Scheduling + SSCH Encoding 24 OFDM Symbols
Assignment + ACK Decode + Data Encode Time 16 OFDM Symbols

FIG. 10

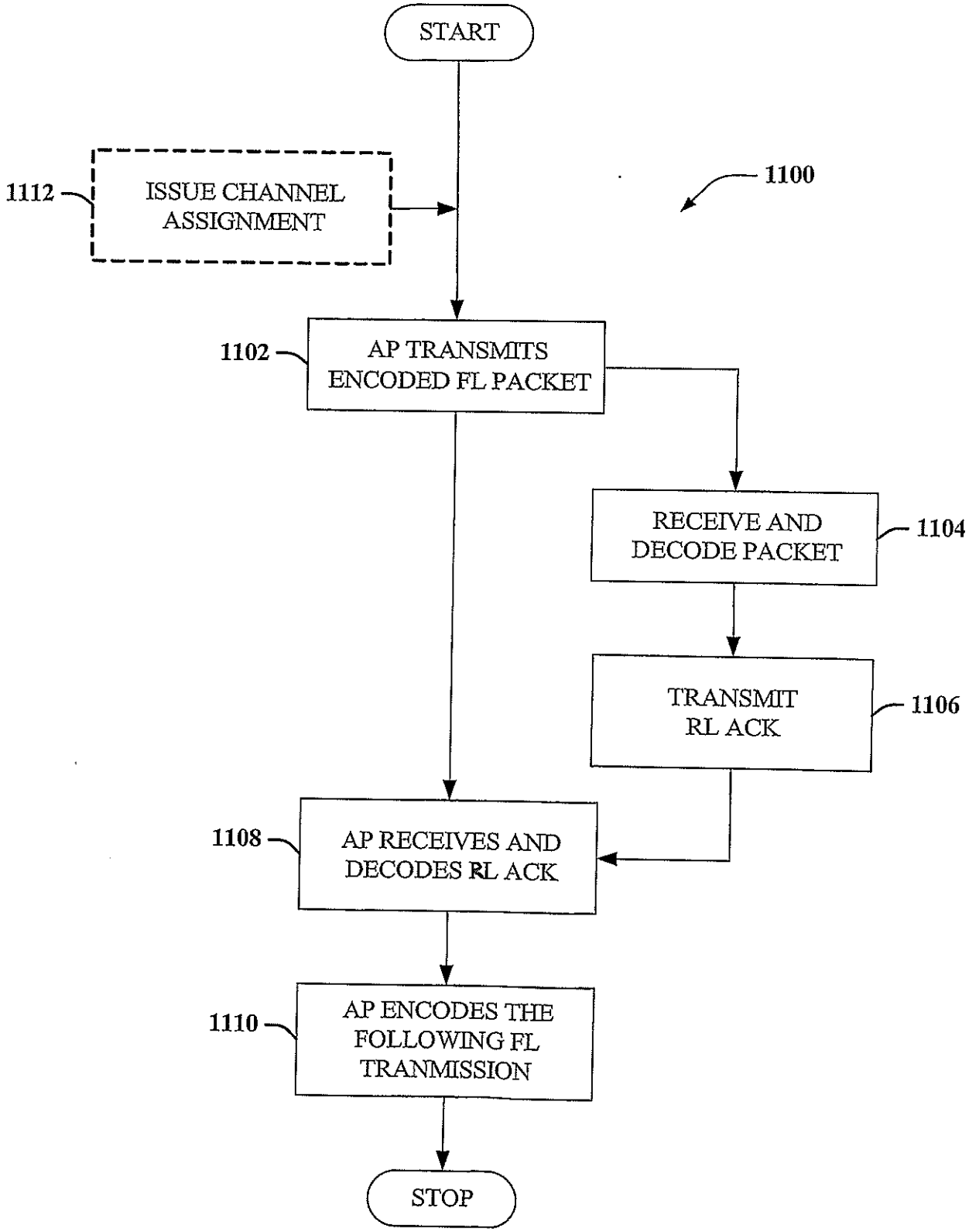

START
1112
ISSUE CHANNEL ASSIGNMENT
1100
1102
AP TRANSMITS ENCODED FL PACKET
RECEIVE AND DECODE PACKET
1104
TRANSMIT RL ACK
1106
1108
AP RECEIVES AND DECODES RL ACK
1110
AP ENCODES THE FOLLOWING FL TRANMISSION
STOP

FIG. 11

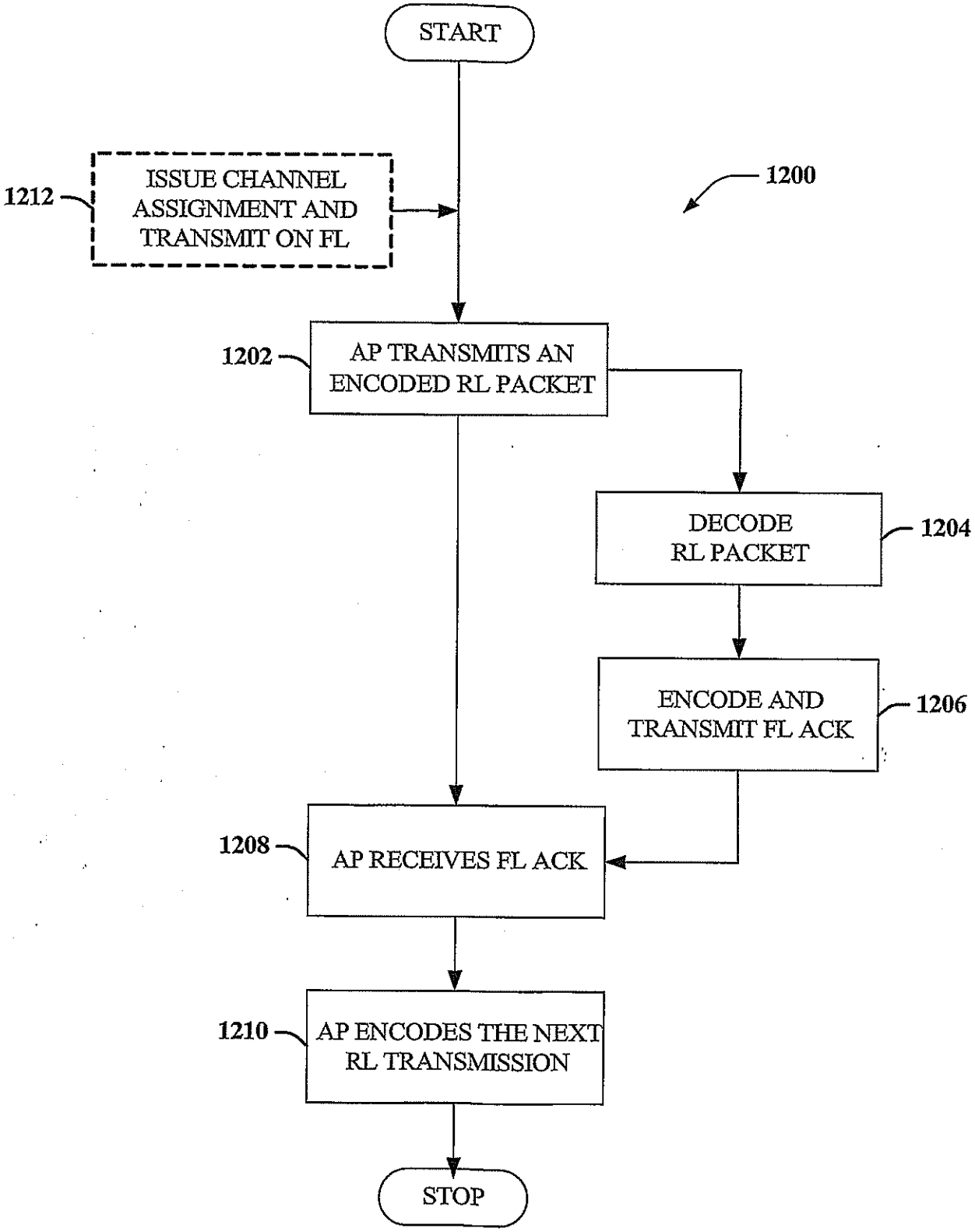

START
1212
ISSUE CHANNEL ASSIGNMENT AND TRANSMIT ON FL
1200
1202
AP TRANSMITS AN ENCODED RL PACKET
DECODE RL PACKET
1204
ENCODE AND TRANSMIT FL ACK
1206
1208
AP RECEIVES FL ACK
1210
AP ENCODES THE NEXT RL TRANSMISSION
STOP

FIG. 12

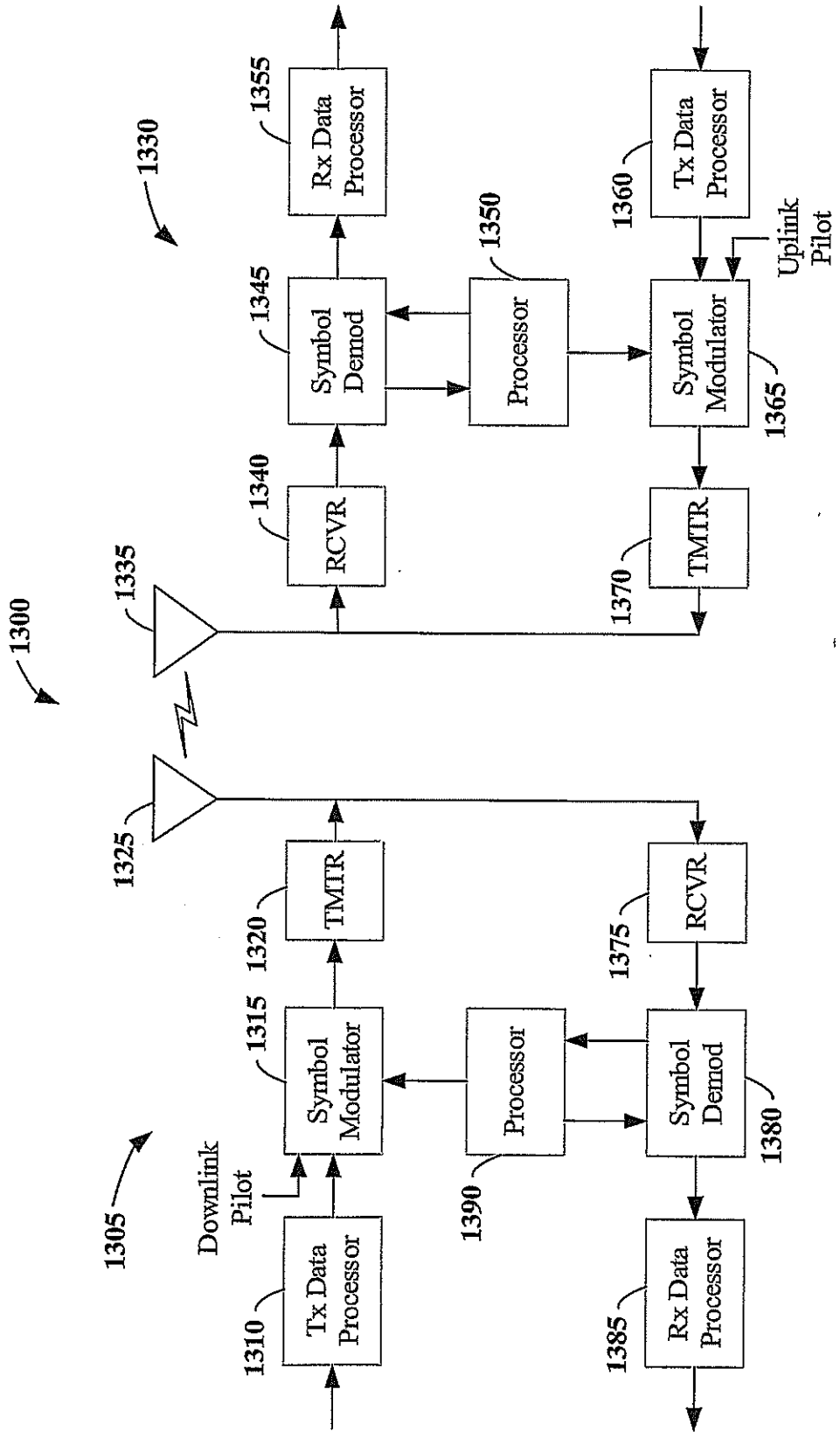

1300
1305
1310
Tx Data Processor
Downlink Pilot
1315
Symbol Modulator
1320
TMTR
1325
1330
1335
1340
RCVR
1345
Symbol Demod
1350
Processor
1355
Rx Data Processor
1360
Tx Data Processor
Uplink Pilot
1365
Symbol Modulator
1370
TMTR
1375
RCVR
1380
Symbol Demod
1385
Rx Data Processor
1390
Processor

FIG. 13