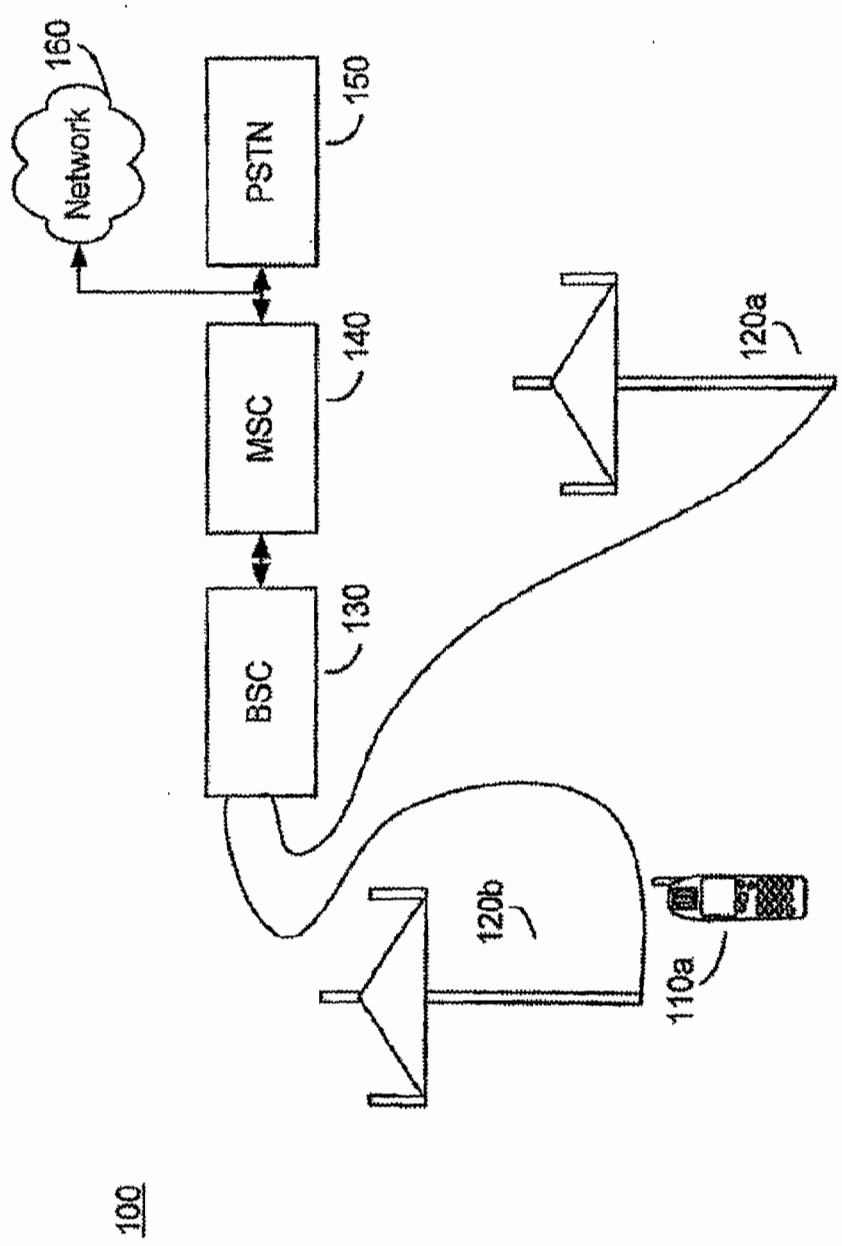


FIG. 1

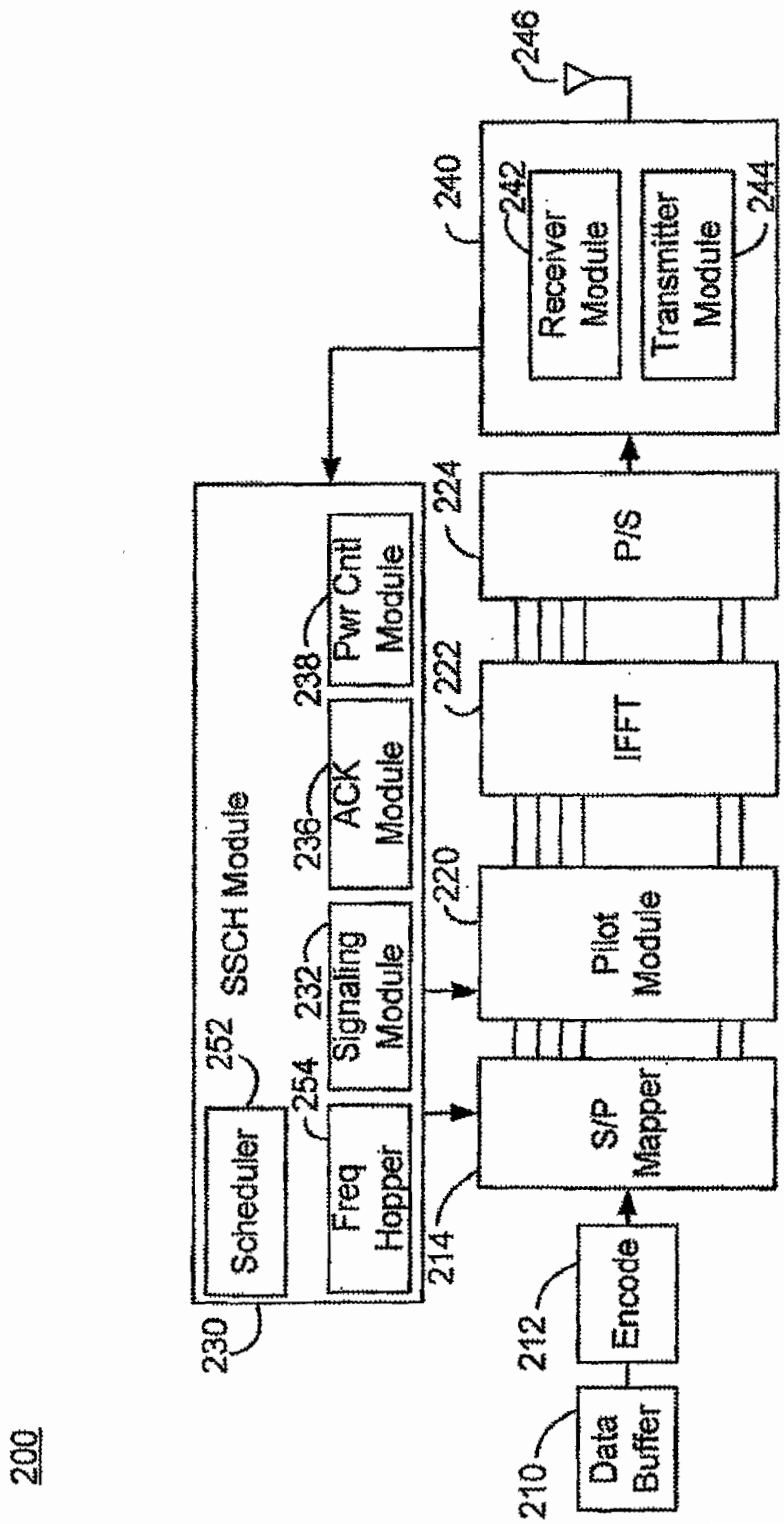
200
Data Buffer
210
Encode
212
S/P Mapper
214
Pilot Module
220
IFFT
222
P/S
224
SSCH Module
Scheduler
230
252
Freq Hopper
254
Signaling Module
232
ACK Module
236
Pwr Cntl Module
238
240
Receiver Module
242
Transmitter Module
244
246

FIG. 2

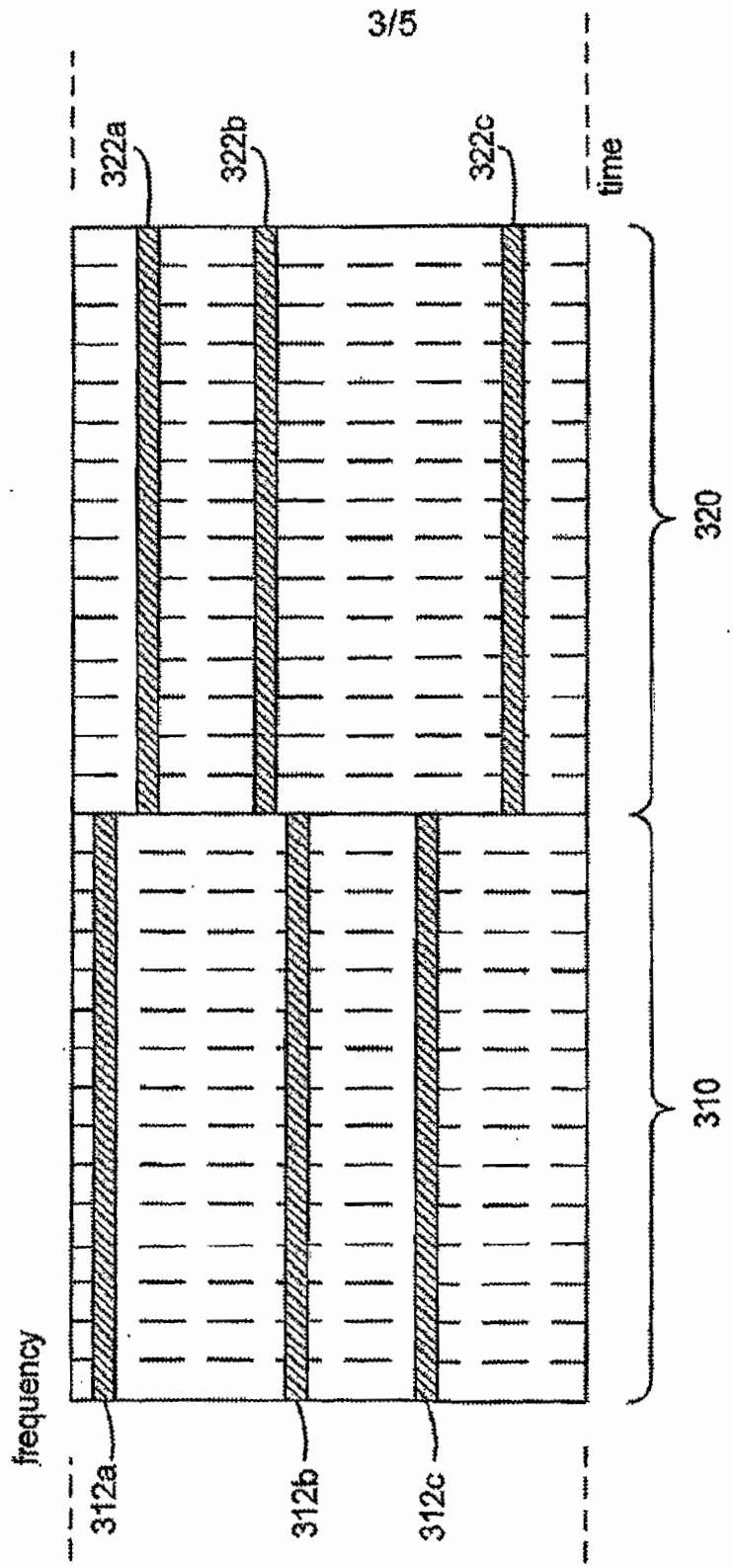


FIG. 3

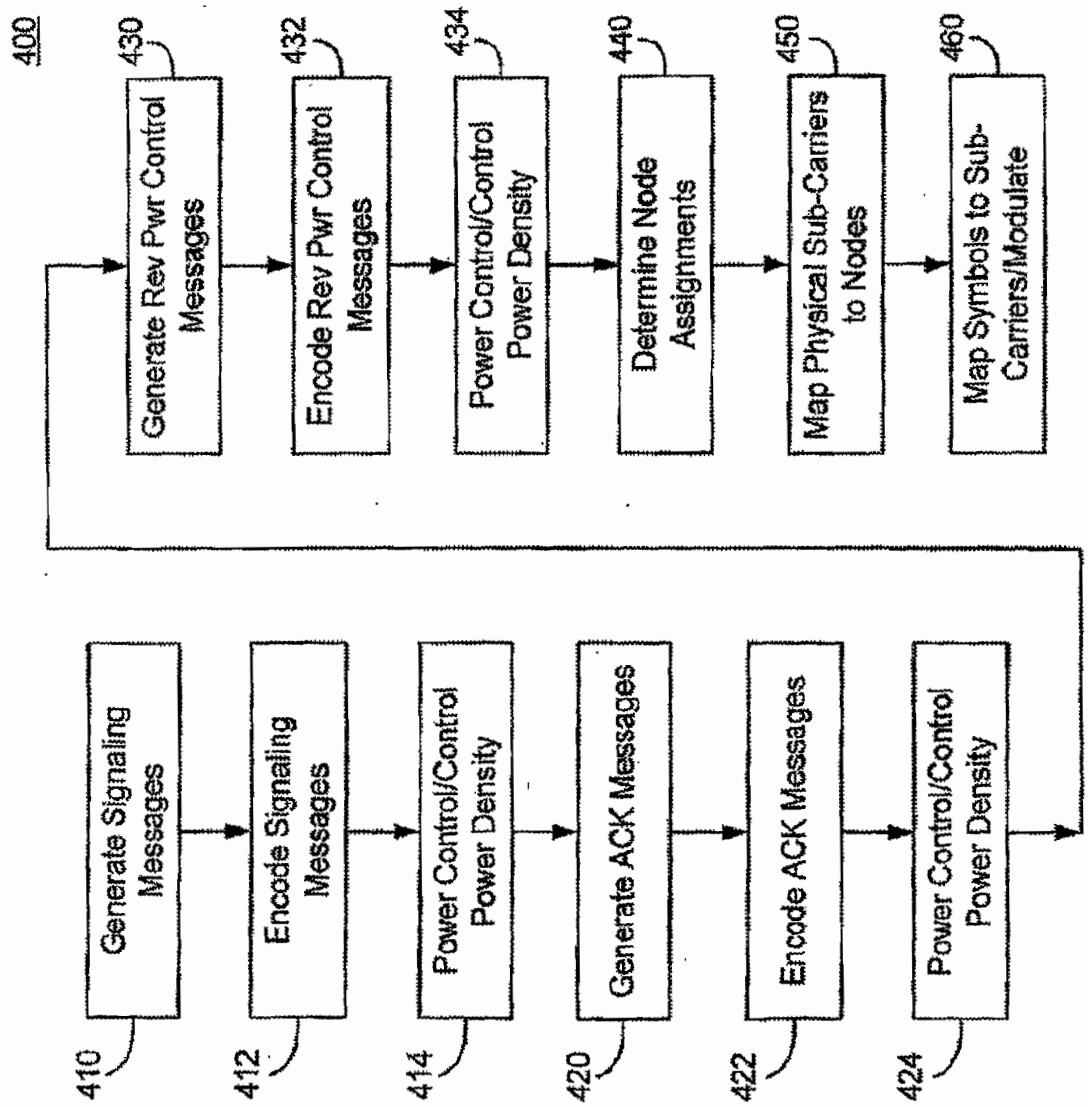
400
410
Generate Signaling Messages
412
Encode Signaling Messages
414
Power Control/Control Power Density
420
Generate ACK Messages
422
Encode ACK Messages
424
Power Control/Control Power Density
430
Generate Rev Pwr Control Messages
432
Encode Rev Pwr Control Messages
434
Power Control/Control Power Density
440
Determine Node Assignments
450
Map Physical Sub-Carriers to Nodes
460
Map Symbols to Sub-Carriers/Modulate

FIG 4

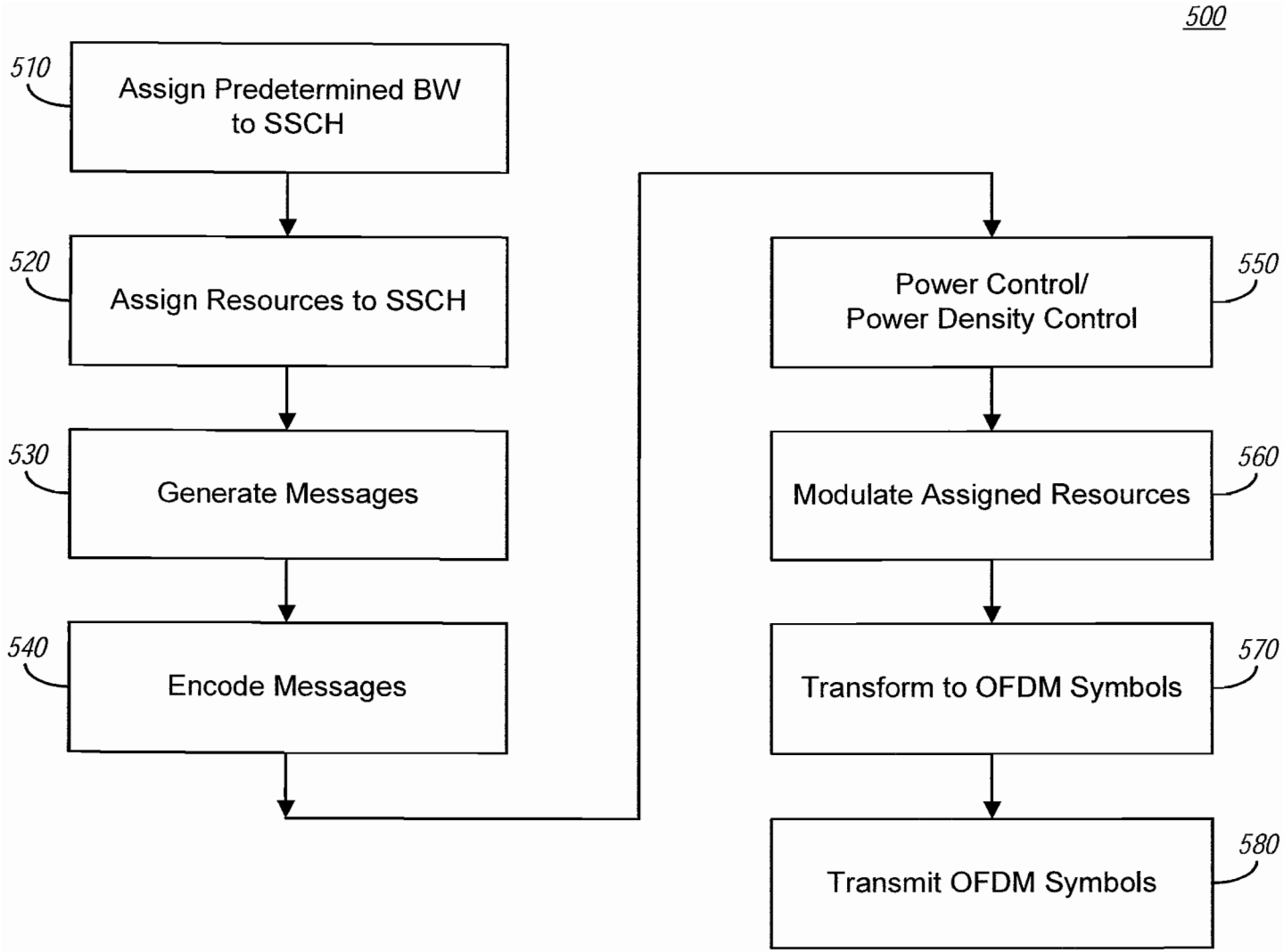
500
510
Assign Predetermined BW to SSCH
520
Assign Resources to SSCH
530
Generate Messages
540
Encode Messages
550
Power Control/ Power Density Control
560
Modulate Assigned Resources
570
Transform to OFDM Symbols
580
Transmit OFDM Symbols

FIG. 5