

FIG. 1
PRIOR ART

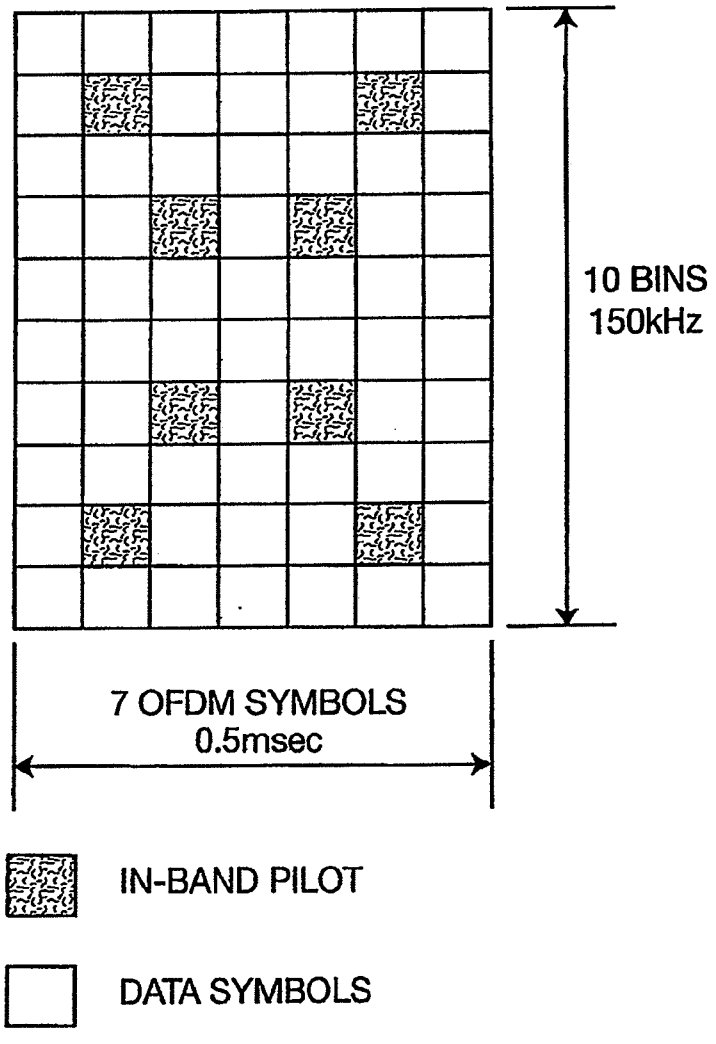


FIG. 2
PRIOR ART

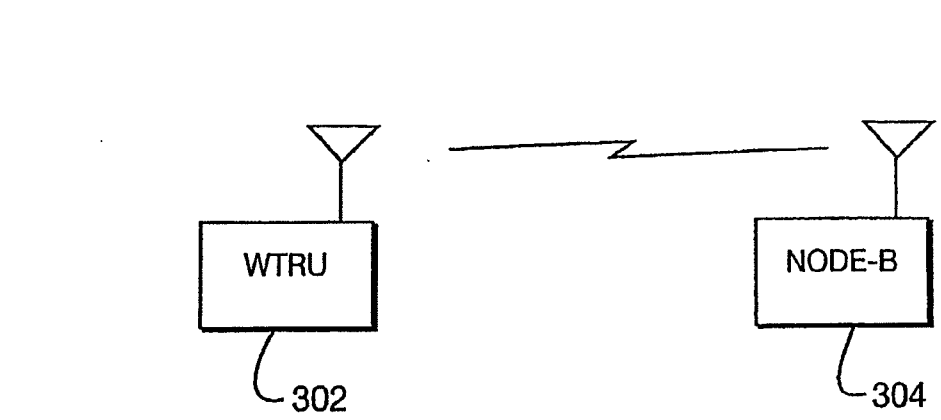

300
WTRU
NODE-B
302
304

FIG. 3

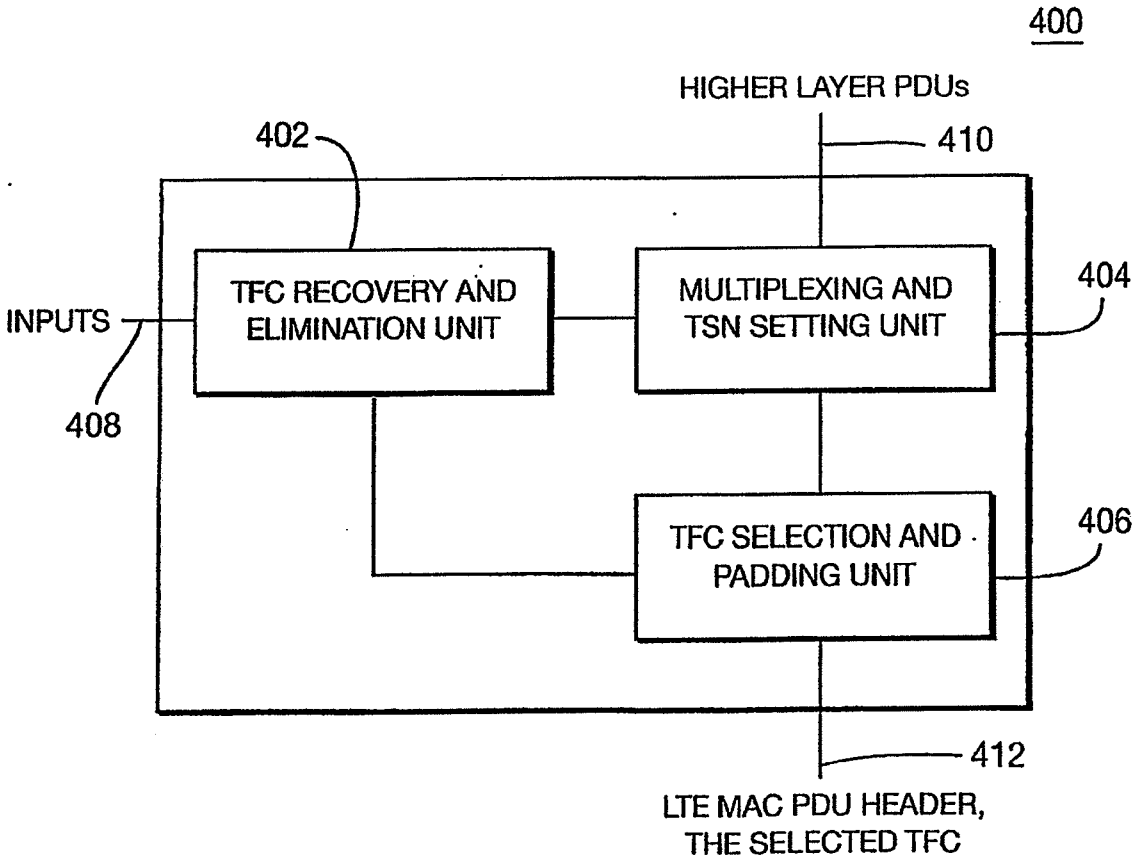

400
HIGHER LAYER PDUs
402
410
TFC RECOVERY AND ELIMINATION UNIT
MULTIPLEXING AND TSN SETTING UNIT
404
INPUTS
408
TFC SELECTION AND PADDING UNIT
406
412
LTE MAC PDU HEADER, THE SELECTED TFC

FIG. 4

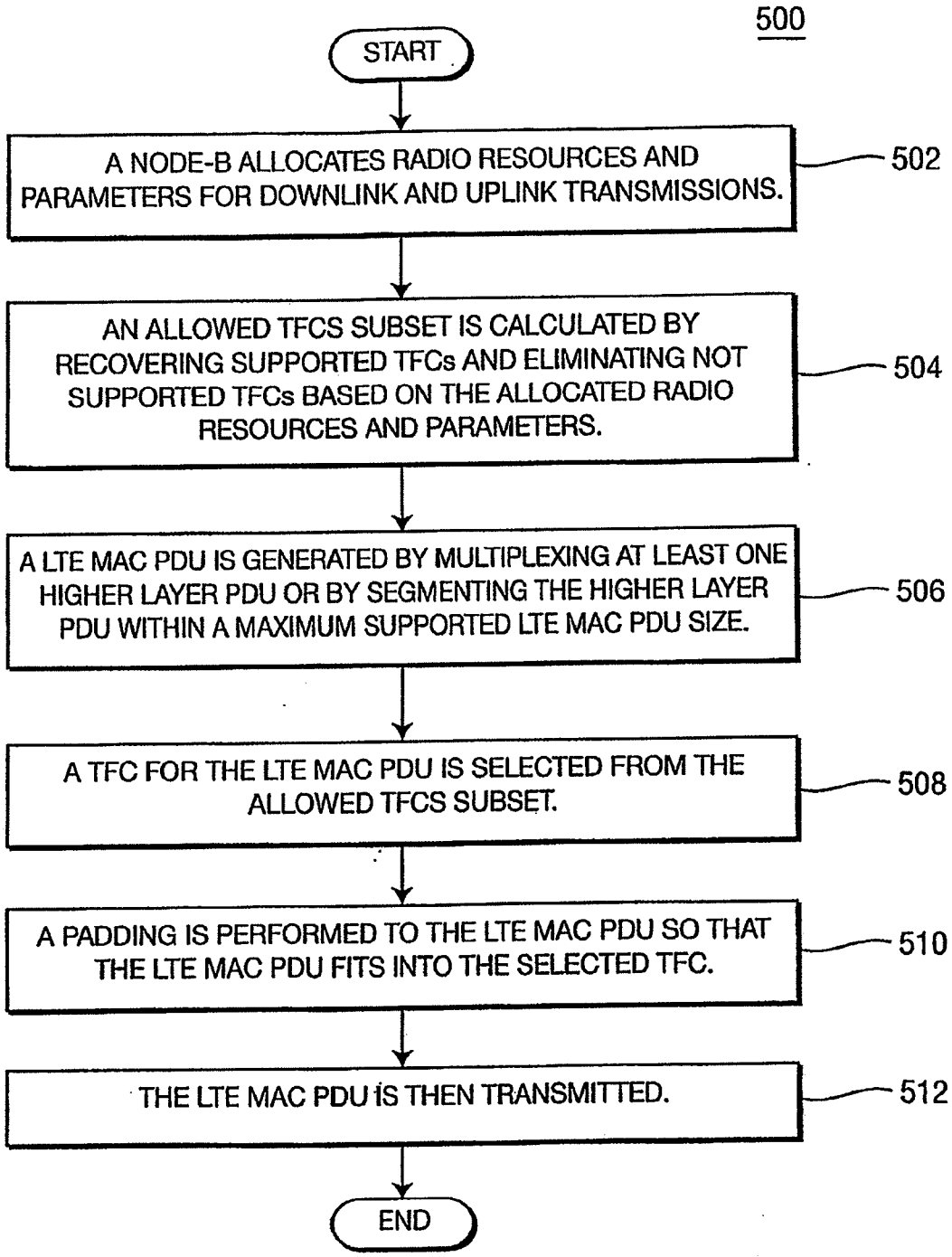

500
START
A NODE-B ALLOCATES RADIO RESOURCES AND PARAMETERS FOR DOWNLINK AND UPLINK TRANSMISSIONS.
502
AN ALLOWED TFCS SUBSET IS CALCULATED BY RECOVERING SUPPORTED TFCs AND ELIMINATING NOT SUPPORTED TFCs BASED ON THE ALLOCATED RADIO RESOURCES AND PARAMETERS.
504
A LTE MAC PDU IS GENERATED BY MULTIPLEXING AT LEAST ONE HIGHER LAYER PDU OR BY SEGMENTING THE HIGHER LAYER PDU WITHIN A MAXIMUM SUPPORTED LTE MAC PDU SIZE.
506
A TFC FOR THE LTE MAC PDU IS SELECTED FROM THE ALLOWED TFCS SUBSET.
508
A PADDING IS PERFORMED TO THE LTE MAC PDU SO THAT THE LTE MAC PDU FITS INTO THE SELECTED TFC.
510
THE LTE MAC PDU IS THEN TRANSMITTED.
512
END

FIG. 5