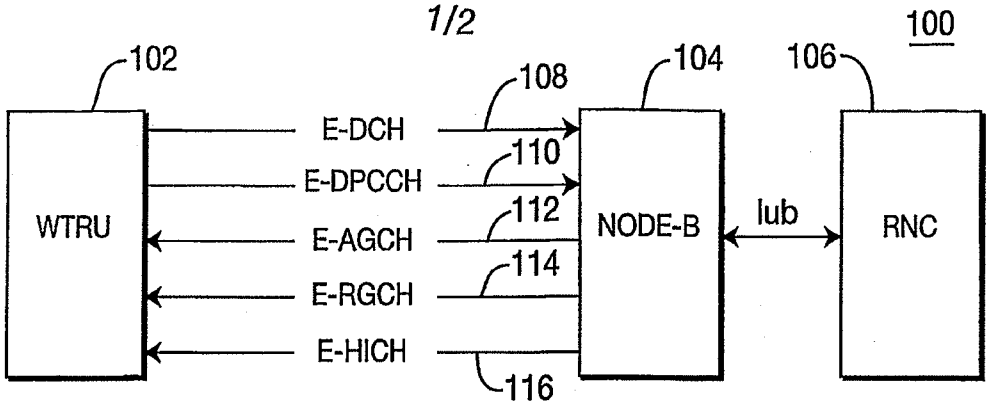


FIG. 1

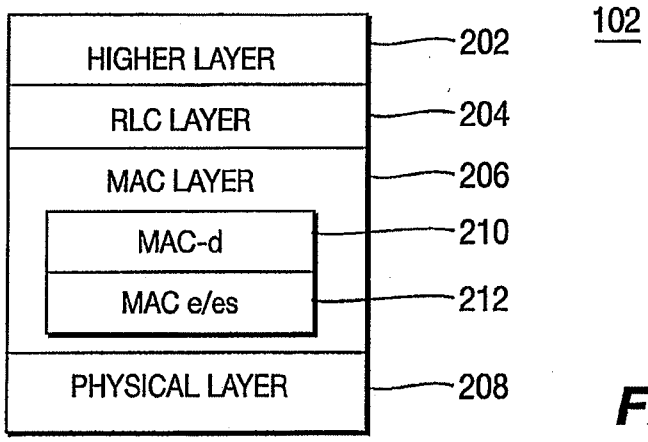


FIG. 2

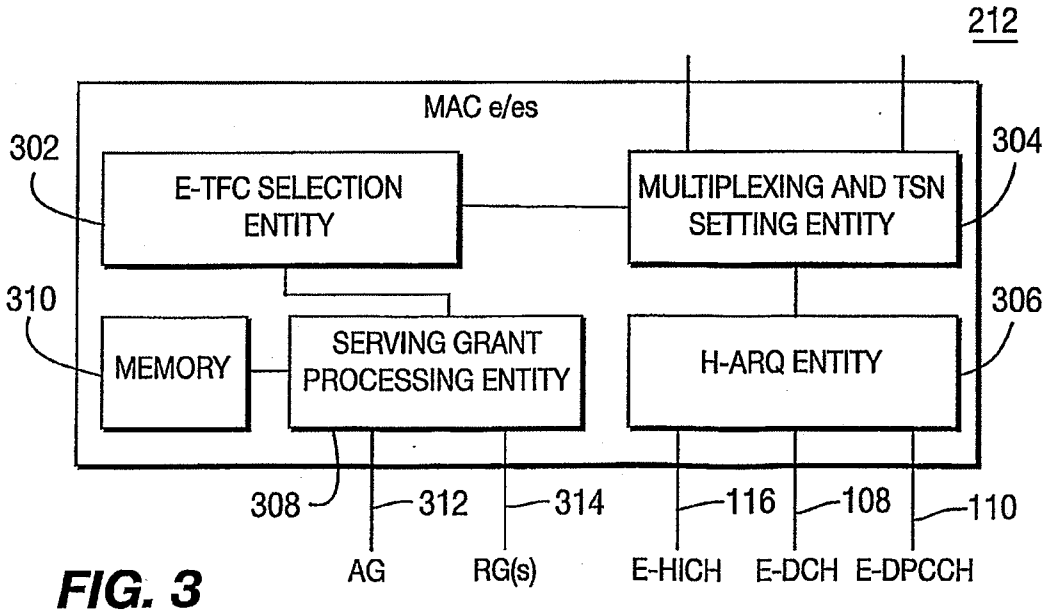


FIG. 3

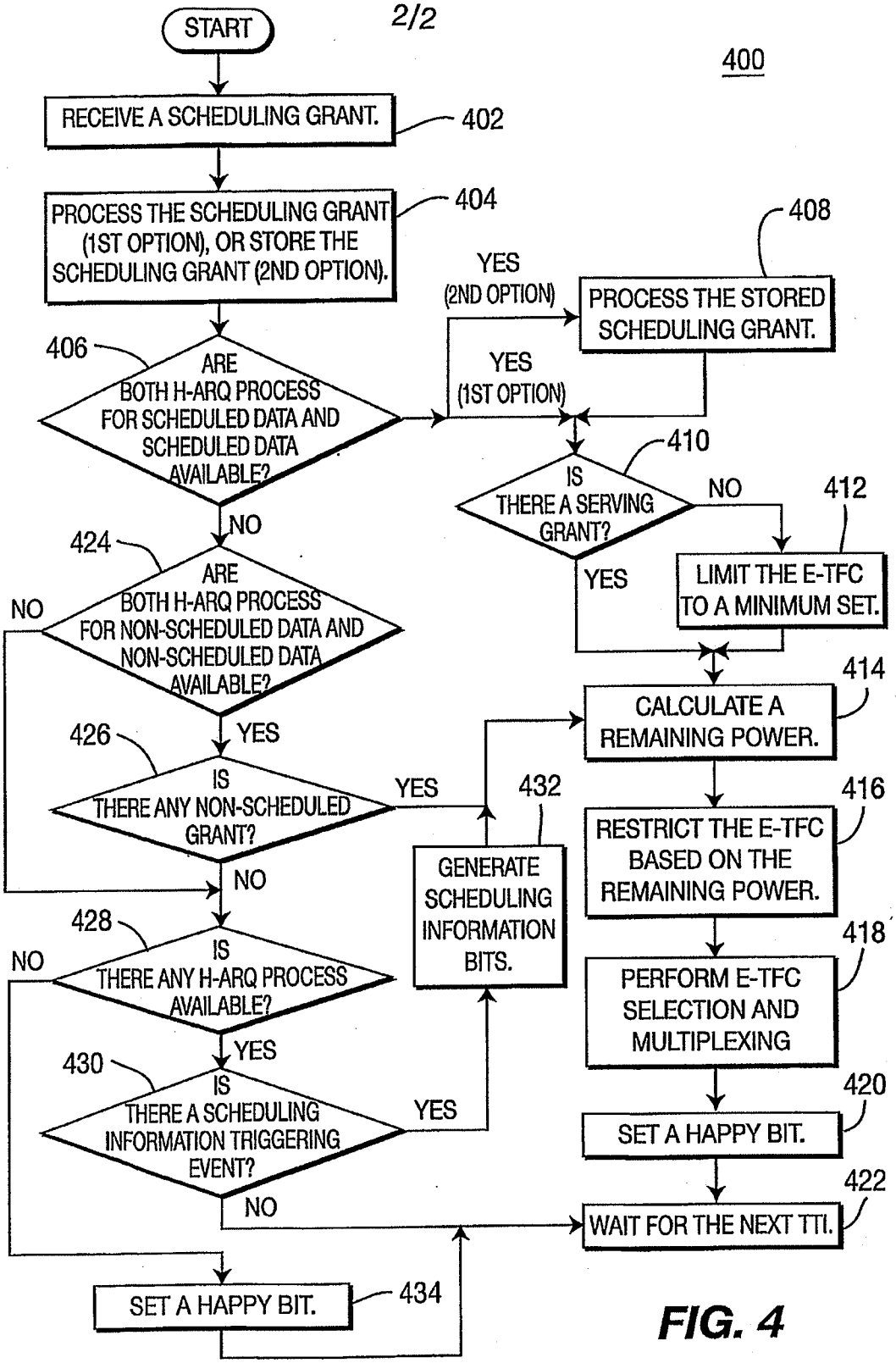

400
START
RECEIVE A SCHEDULING GRANT.
402
PROCESS THE SCHEDULING GRANT (1ST OPTION), OR STORE THE SCHEDULING GRANT (2ND OPTION).
404
406
ARE BOTH H-ARQ PROCESS FOR SCHEDULED DATA AND SCHEDULED DATA AVAILABLE?
YES (2ND OPTION)
408
PROCESS THE STORED SCHEDULING GRANT.
YES (1ST OPTION)
410
IS THERE A SERVING GRANT?
NO
412
LIMIT THE E-TFC TO A MINIMUM SET.
YES
NO
424
ARE BOTH H-ARQ PROCESS FOR NON-SCHEDULED DATA AND NON-SCHEDULED DATA AVAILABLE?
NO
YES
426
IS THERE ANY NON-SCHEDULED GRANT?
YES
432
GENERATE SCHEDULING INFORMATION BITS.
NO
414
CALCULATE A REMAINING POWER.
416
RESTRICT THE E-TFC BASED ON THE REMAINING POWER.
418
PERFORM E-TFC SELECTION AND MULTIPLEXING
420
SET A HAPPY BIT.
422
WAIT FOR THE NEXT TTI.
428
IS THERE ANY H-ARQ PROCESS AVAILABLE?
NO
YES
430
IS THERE A SCHEDULING INFORMATION TRIGGERING EVENT?
YES
NO
SET A HAPPY BIT.
434

FIG. 4