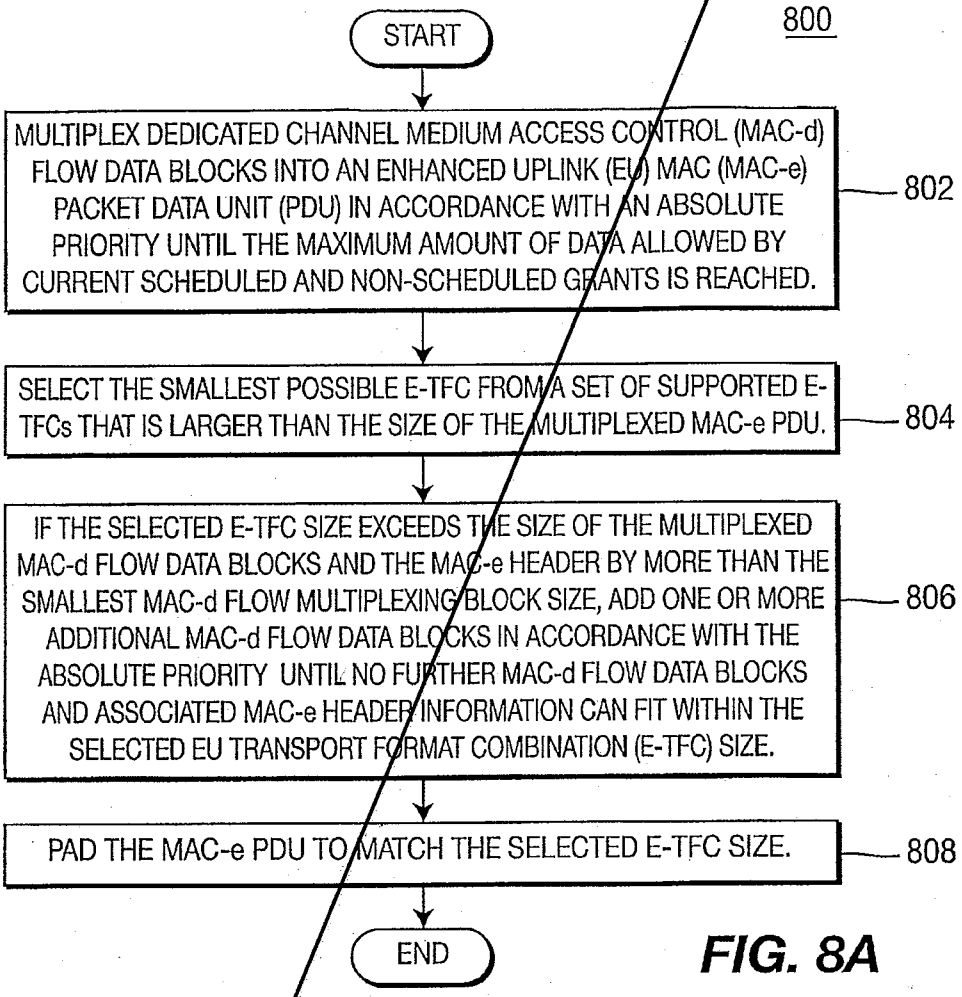

800
START
MULTIPLEX DEDICATED CHANNEL MEDIUM ACCESS CONTROL (MAC-d) FLOW DATA BLOCKS INTO AN ENHANCED UPLINK (EU) MAC (MAC-e) PACKET DATA UNIT (PDU) IN ACCORDANCE WITH AN ABSOLUTE PRIORITY UNTIL THE MAXIMUM AMOUNT OF DATA ALLOWED BY CURRENT SCHEDULED AND NON-SCHEDULED GRANTS IS REACHED.
802
SELECT THE SMALLEST POSSIBLE E-TFC FROM A SET OF SUPPORTED E-TFCs THAT IS LARGER THAN THE SIZE OF THE MULTIPLEXED MAC-e PDU.
804
IF THE SELECTED E-TFC SIZE EXCEEDS THE SIZE OF THE MULTIPLEXED MAC-d FLOW DATA BLOCKS AND THE MAC-e HEADER BY MORE THAN THE SMALLEST MAC-d FLOW MULTIPLEXING BLOCK SIZE, ADD ONE OR MORE ADDITIONAL MAC-d FLOW DATA BLOCKS IN ACCORDANCE WITH THE ABSOLUTE PRIORITY UNTIL NO FURTHER MAC-d FLOW DATA BLOCKS AND ASSOCIATED MAC-e HEADER INFORMATION CAN FIT WITHIN THE SELECTED EU TRANSPORT FORMAT COMBINATION (E-TFC) SIZE.
806
PAD THE MAC-e PDU TO MATCH THE SELECTED E-TFC SIZE.
808
END

FIG. 8A

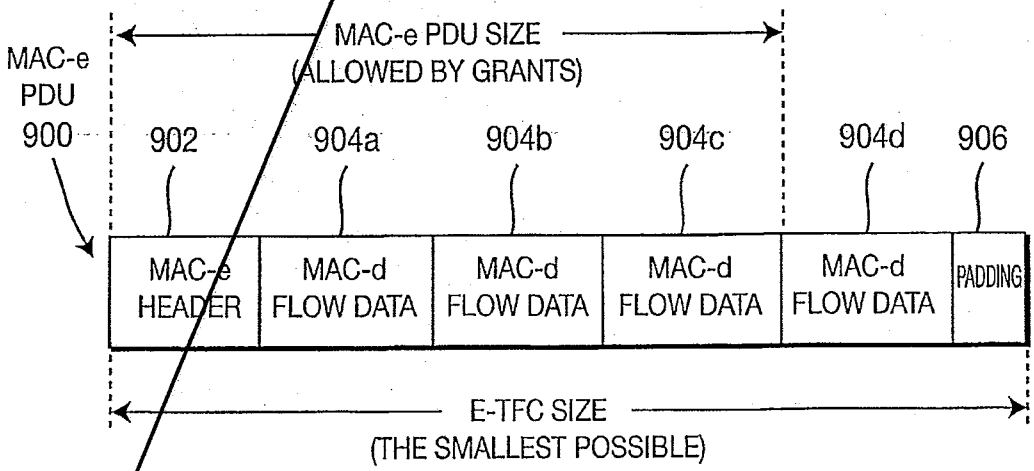

MAC-e PDU SIZE
(ALLOWED BY GRANTS)
MAC-e PDU
900
902
904a
904b
904c
904d
906
MAC-e HEADER
MAC-d FLOW DATA
MAC-d FLOW DATA
MAC-d FLOW DATA
MAC-d FLOW DATA
PADDING
E-TFC SIZE
(THE SMALLEST POSSIBLE)

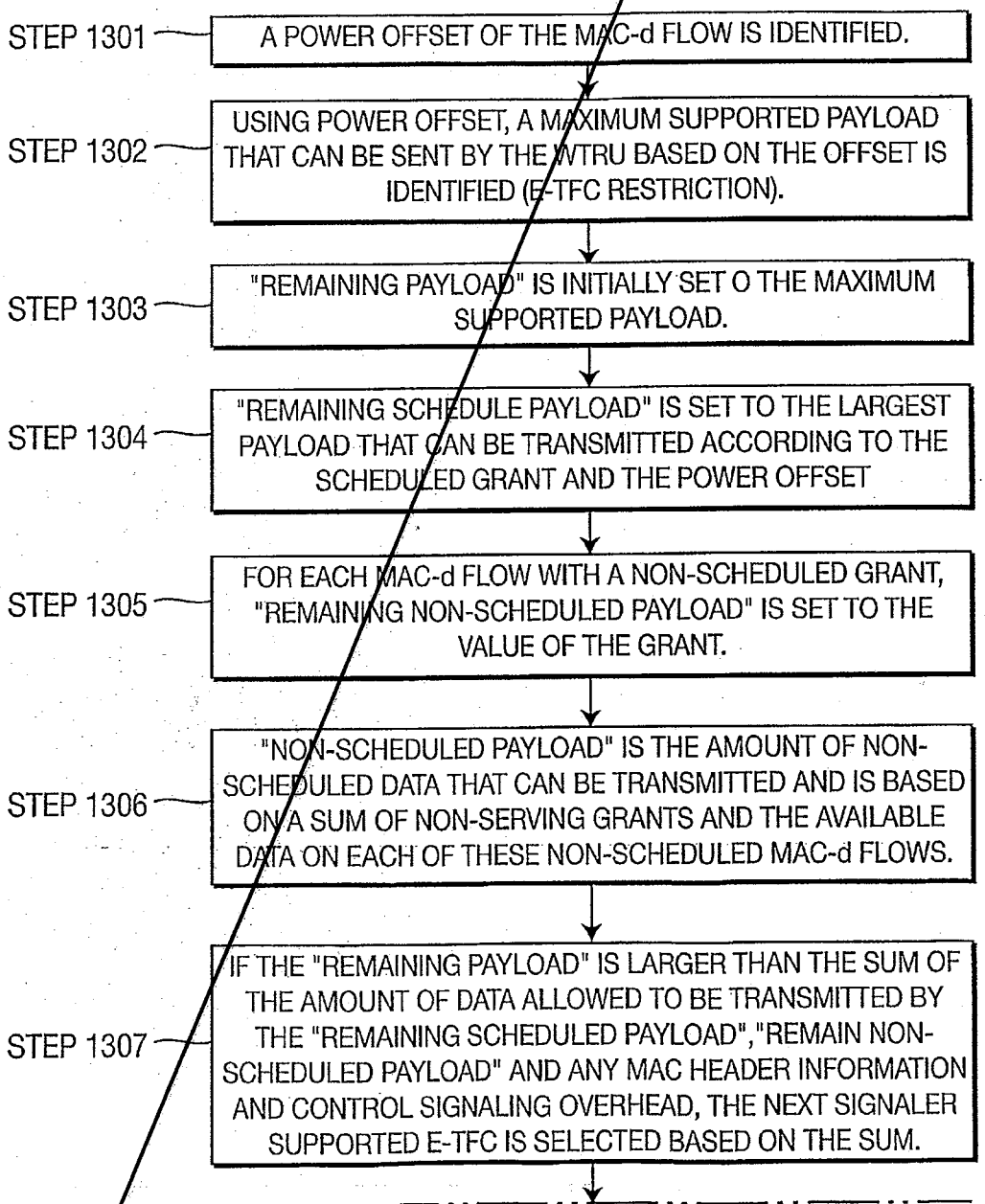
FIG. 9

FIG. 11

FIG. 11A

FIG. 11B

FIG. 11A



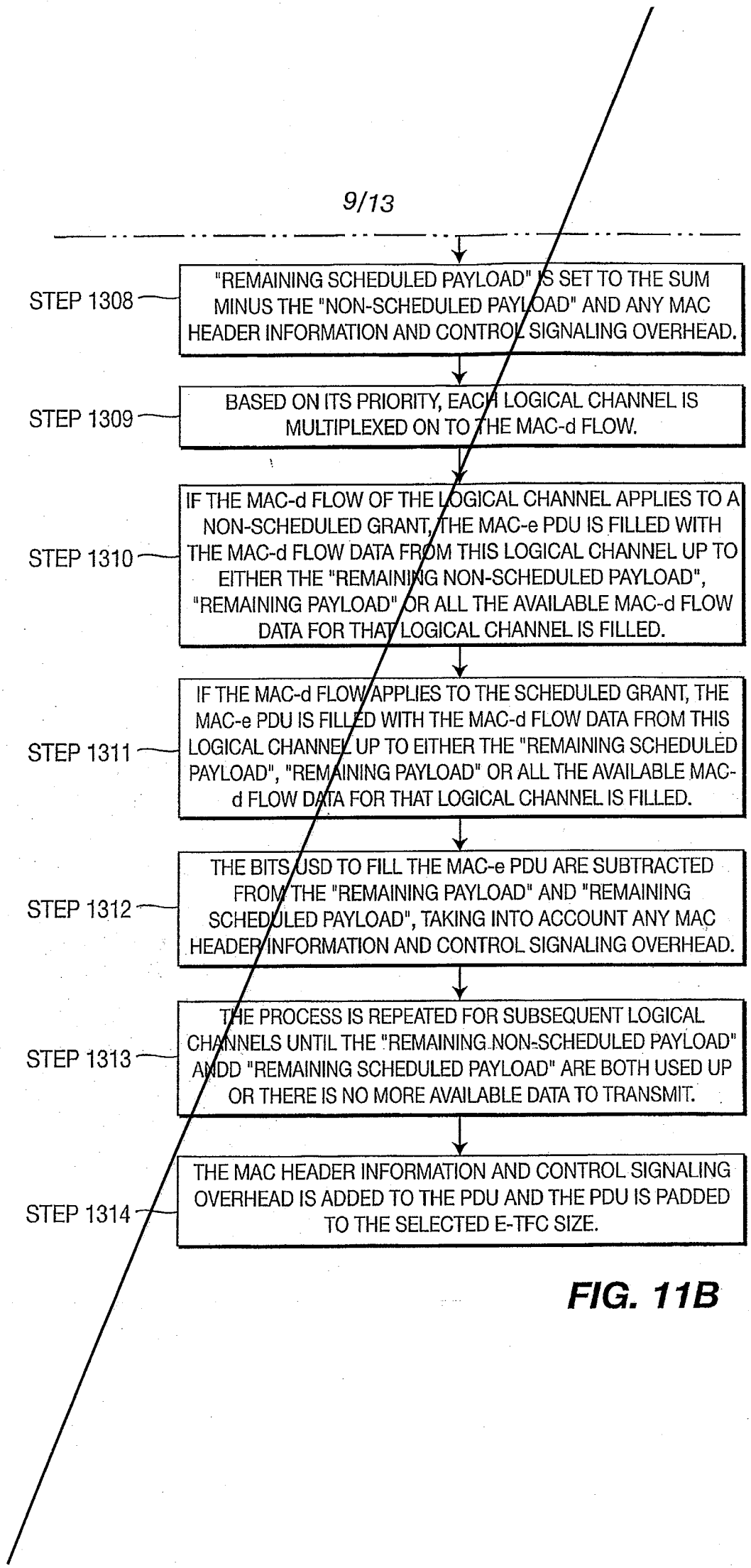

STEP 1308
"REMAINING SCHEDULED PAYLOAD" IS SET TO THE SUM MINUS THE "NON-SCHEDULED PAYLOAD" AND ANY MAC HEADER INFORMATION AND CONTROL SIGNALING OVERHEAD.
STEP 1309
BASED ON ITS PRIORITY, EACH LOGICAL CHANNEL IS MULTIPLEXED ON TO THE MAC-d FLOW.
STEP 1310
IF THE MAC-d FLOW OF THE LOGICAL CHANNEL APPLIES TO A NON-SCHEDULED GRANT, THE MAC-e PDU IS FILLED WITH THE MAC-d FLOW DATA FROM THIS LOGICAL CHANNEL UP TO EITHER THE "REMAINING NON-SCHEDULED PAYLOAD", "REMAINING PAYLOAD" OR ALL THE AVAILABLE MAC-d FLOW DATA FOR THAT LOGICAL CHANNEL IS FILLED.
STEP 1311
IF THE MAC-d FLOW APPLIES TO THE SCHEDULED GRANT, THE MAC-e PDU IS FILLED WITH THE MAC-d FLOW DATA FROM THIS LOGICAL CHANNEL UP TO EITHER THE "REMAINING SCHEDULED PAYLOAD", "REMAINING PAYLOAD" OR ALL THE AVAILABLE MAC-d FLOW DATA FOR THAT LOGICAL CHANNEL IS FILLED.
STEP 1312
THE BITS USD TO FILL THE MAC-e PDU ARE SUBTRACTED FROM THE "REMAINING PAYLOAD" AND "REMAINING SCHEDULED PAYLOAD", TAKING INTO ACCOUNT ANY MAC HEADER INFORMATION AND CONTROL SIGNALING OVERHEAD.
STEP 1313
THE PROCESS IS REPEATED FOR SUBSEQUENT LOGICAL CHANNELS UNTIL THE "REMAINING NON-SCHEDULED PAYLOAD" ANDD "REMAINING SCHEDULED PAYLOAD" ARE BOTH USED UP OR THERE IS NO MORE AVAILABLE DATA TO TRANSMIT.
STEP 1314
THE MAC HEADER INFORMATION AND CONTROL SIGNALING OVERHEAD IS ADDED TO THE PDU AND THE PDU IS PADDED TO THE SELECTED E-TFC SIZE.

FIG. 11B

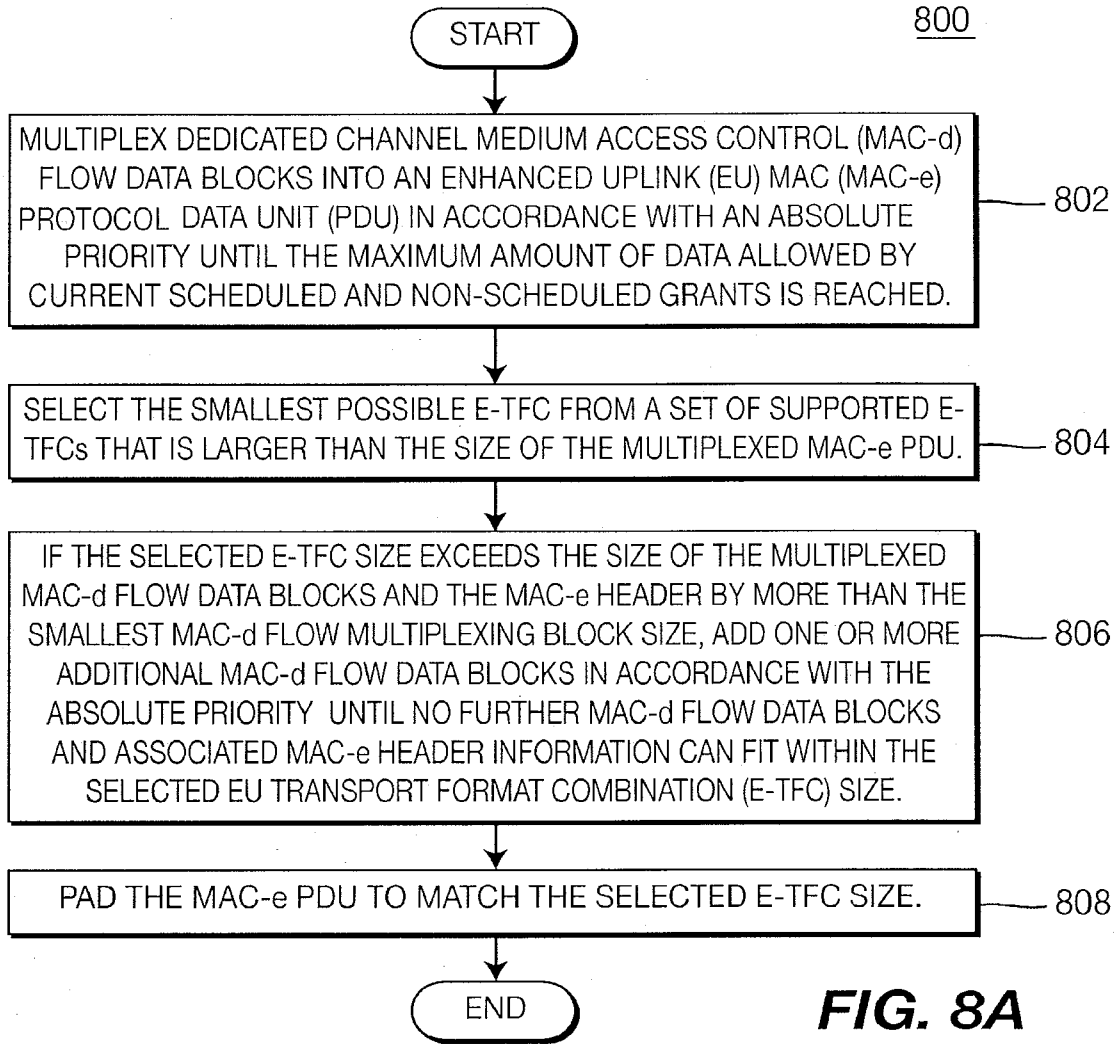

800
START
MULTIPLEX DEDICATED CHANNEL MEDIUM ACCESS CONTROL (MAC-d) FLOW DATA BLOCKS INTO AN ENHANCED UPLINK (EU) MAC (MAC-e) PROTOCOL DATA UNIT (PDU) IN ACCORDANCE WITH AN ABSOLUTE PRIORITY UNTIL THE MAXIMUM AMOUNT OF DATA ALLOWED BY CURRENT SCHEDULED AND NON-SCHEDULED GRANTS IS REACHED.
802
SELECT THE SMALLEST POSSIBLE E-TFC FROM A SET OF SUPPORTED E-TFCs THAT IS LARGER THAN THE SIZE OF THE MULTIPLEXED MAC-e PDU.
804
IF THE SELECTED E-TFC SIZE EXCEEDS THE SIZE OF THE MULTIPLEXED MAC-d FLOW DATA BLOCKS AND THE MAC-e HEADER BY MORE THAN THE SMALLEST MAC-d FLOW MULTIPLEXING BLOCK SIZE, ADD ONE OR MORE ADDITIONAL MAC-d FLOW DATA BLOCKS IN ACCORDANCE WITH THE ABSOLUTE PRIORITY UNTIL NO FURTHER MAC-d FLOW DATA BLOCKS AND ASSOCIATED MAC-e HEADER INFORMATION CAN FIT WITHIN THE SELECTED EU TRANSPORT FORMAT COMBINATION (E-TFC) SIZE.
806
PAD THE MAC-e PDU TO MATCH THE SELECTED E-TFC SIZE.
808
END

FIG. 8A

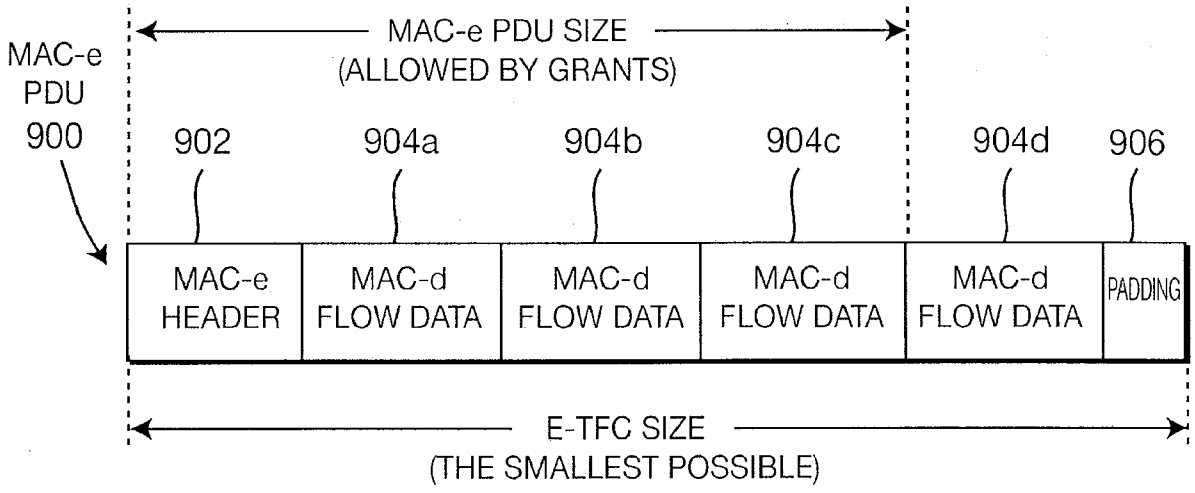
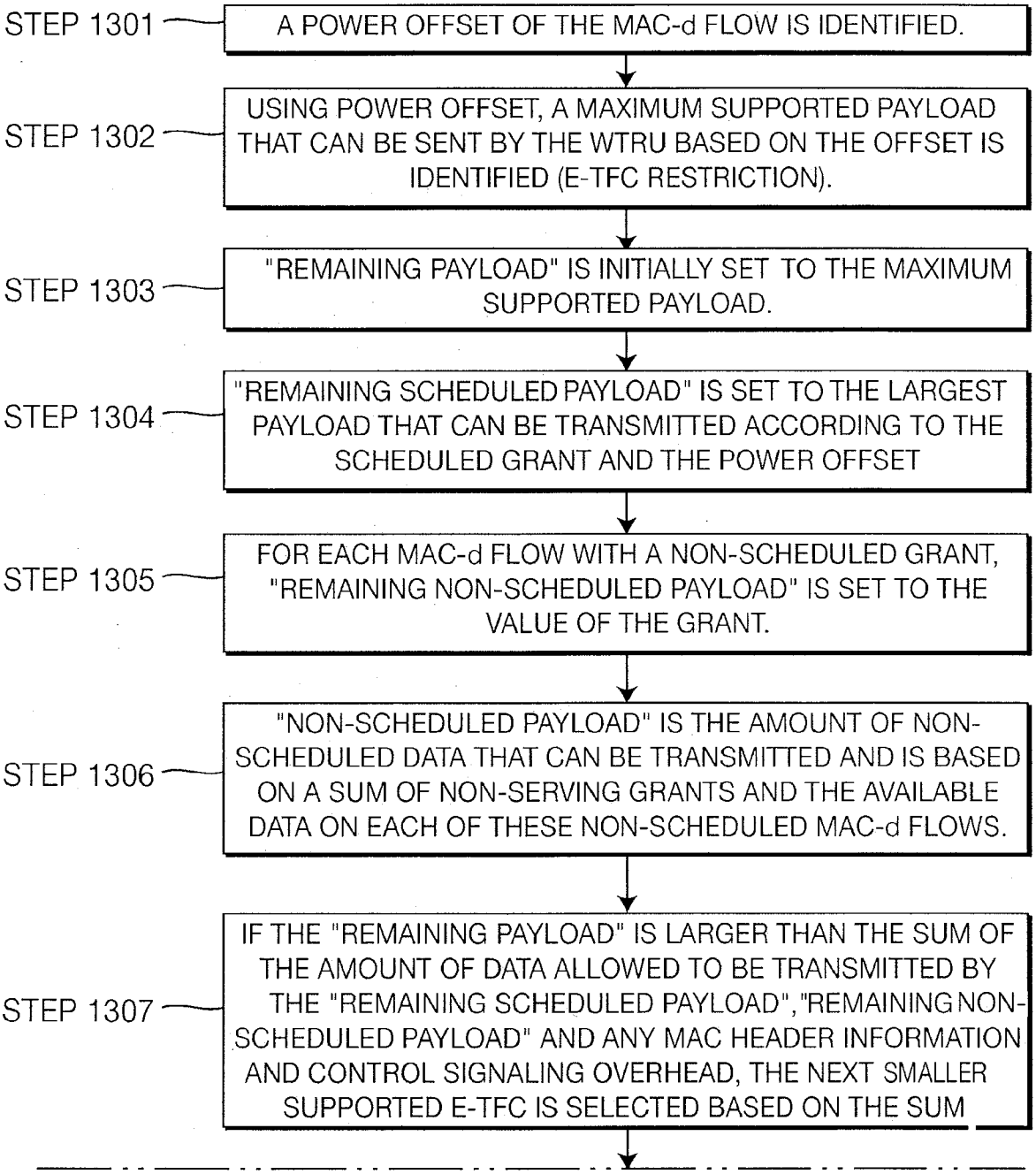

MAC-e PDU 900
MAC-e PDU SIZE
(ALLOWED BY GRANTS)
902
904a
904b
904c
904d
906
MAC-e HEADER
MAC-d FLOW DATA
MAC-d FLOW DATA
MAC-d FLOW DATA
MAC-d FLOW DATA
PADDING
E-TFC SIZE
(THE SMALLEST POSSIBLE)

FIG. 9

FIG. 11

FIG. 11A
FIG. 11B

FIG. 11A



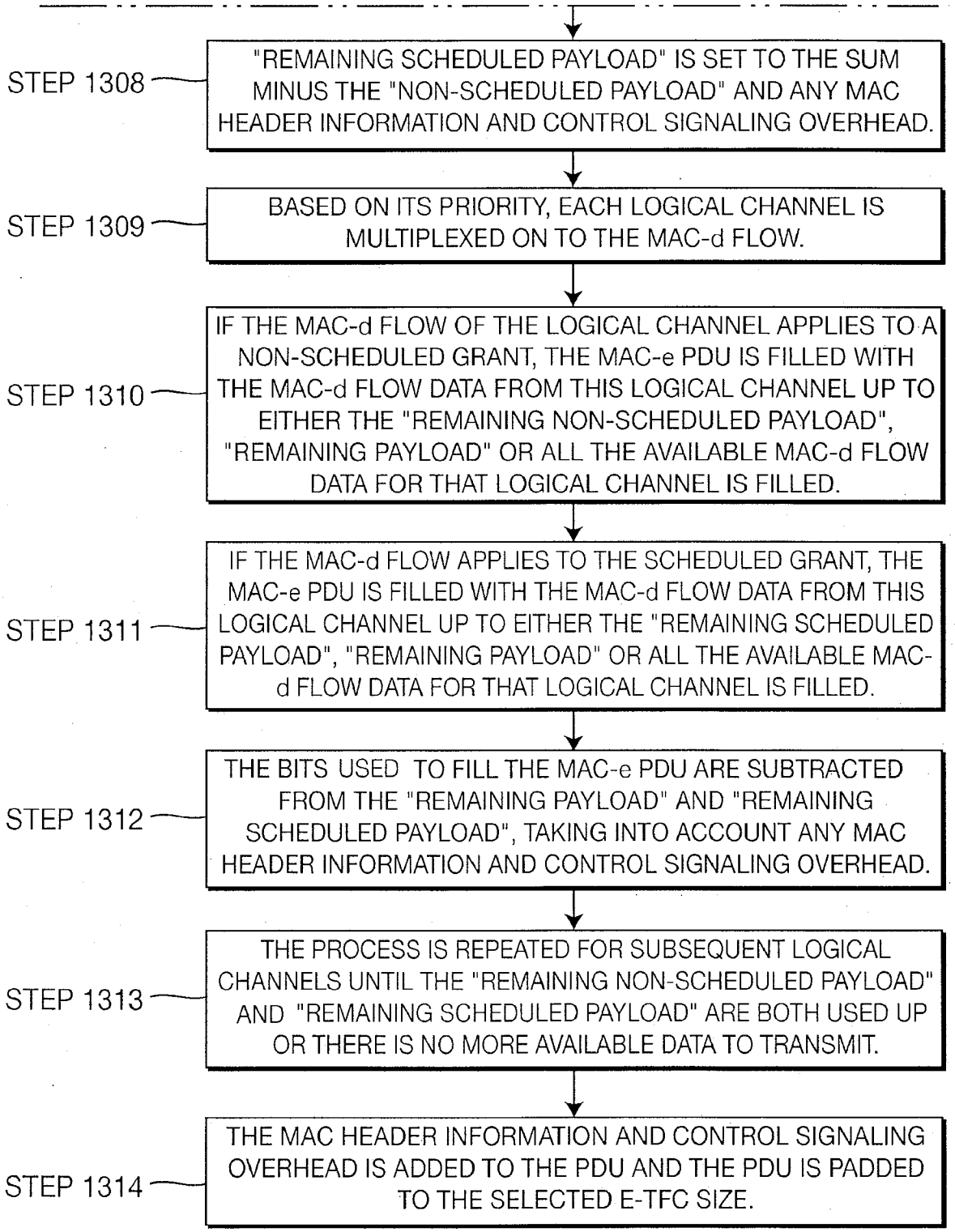

STEP 1308
"REMAINING SCHEDULED PAYLOAD" IS SET TO THE SUM MINUS THE "NON-SCHEDULED PAYLOAD" AND ANY MAC HEADER INFORMATION AND CONTROL SIGNALING OVERHEAD.
STEP 1309
BASED ON ITS PRIORITY, EACH LOGICAL CHANNEL IS MULTIPLEXED ON TO THE MAC-d FLOW.
STEP 1310
IF THE MAC-d FLOW OF THE LOGICAL CHANNEL APPLIES TO A NON-SCHEDULED GRANT, THE MAC-e PDU IS FILLED WITH THE MAC-d FLOW DATA FROM THIS LOGICAL CHANNEL UP TO EITHER THE "REMAINING NON-SCHEDULED PAYLOAD", "REMAINING PAYLOAD" OR ALL THE AVAILABLE MAC-d FLOW DATA FOR THAT LOGICAL CHANNEL IS FILLED.
STEP 1311
IF THE MAC-d FLOW APPLIES TO THE SCHEDULED GRANT, THE MAC-e PDU IS FILLED WITH THE MAC-d FLOW DATA FROM THIS LOGICAL CHANNEL UP TO EITHER THE "REMAINING SCHEDULED PAYLOAD", "REMAINING PAYLOAD" OR ALL THE AVAILABLE MAC-d FLOW DATA FOR THAT LOGICAL CHANNEL IS FILLED.
STEP 1312
THE BITS USED TO FILL THE MAC-e PDU ARE SUBTRACTED FROM THE "REMAINING PAYLOAD" AND "REMAINING SCHEDULED PAYLOAD", TAKING INTO ACCOUNT ANY MAC HEADER INFORMATION AND CONTROL SIGNALING OVERHEAD.
STEP 1313
THE PROCESS IS REPEATED FOR SUBSEQUENT LOGICAL CHANNELS UNTIL THE "REMAINING NON-SCHEDULED PAYLOAD" AND "REMAINING SCHEDULED PAYLOAD" ARE BOTH USED UP OR THERE IS NO MORE AVAILABLE DATA TO TRANSMIT.
STEP 1314
THE MAC HEADER INFORMATION AND CONTROL SIGNALING OVERHEAD IS ADDED TO THE PDU AND THE PDU IS PADDED TO THE SELECTED E-TFC SIZE.

FIG. 11B