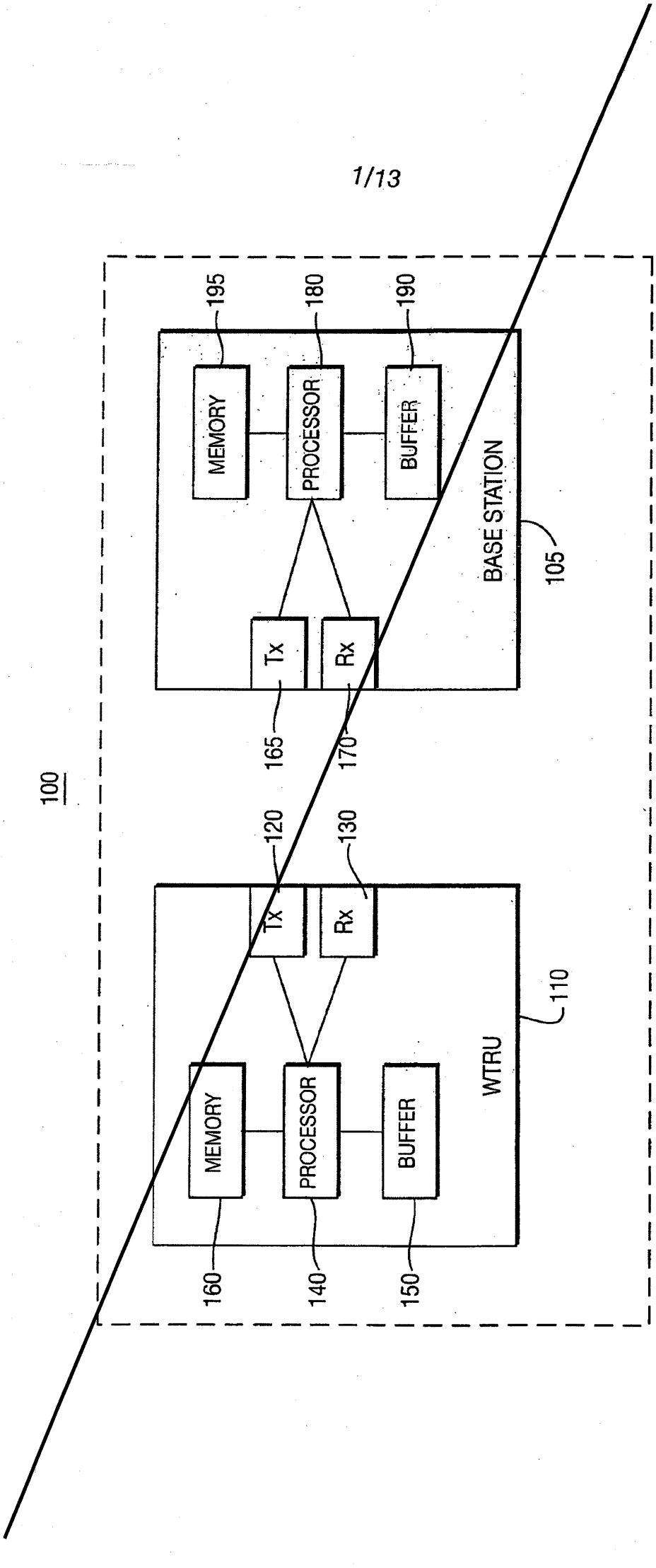

100
BASE STATION
105
MEMORY
PROCESSOR
BUFFER
195
180
190
Tx
Rx
165
170
120
130
WTRU
110
MEMORY
PROCESSOR
BUFFER
160
140
150

FIG. 1

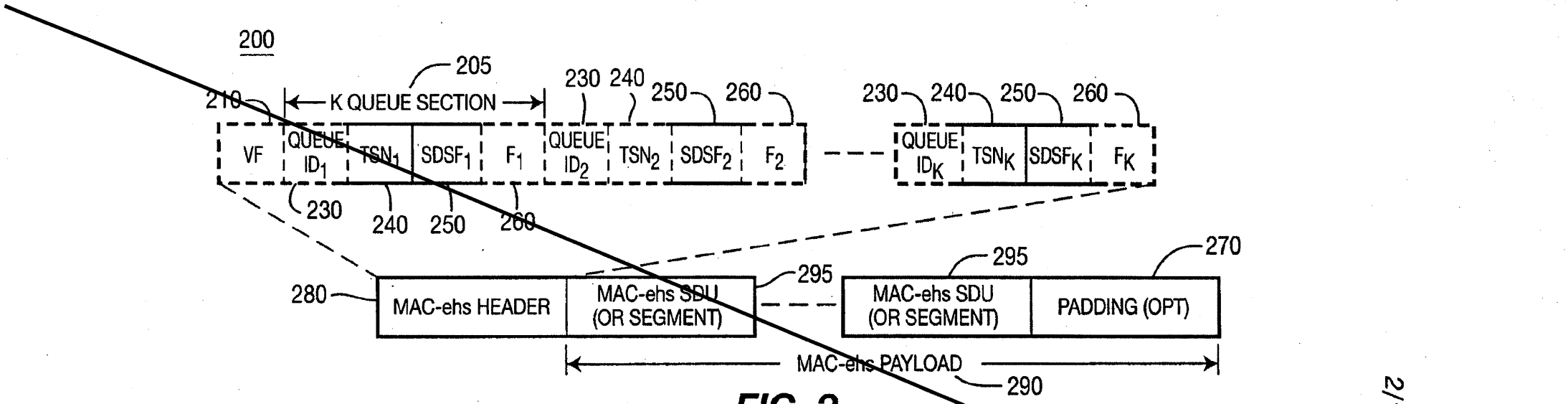

200
205
210
K QUEUE SECTION
230
240
250
260
VF
QUEUE ID1
TSN1
SDSF1
F1
QUEUE ID2
TSN2
SDSF2
F2
QUEUE IDK
TSNK
SDSFK
FK
280
MAC-ehs HEADER
MAC-ehs SDU (OR SEGMENT)
295
MAC-ehs SDU (OR SEGMENT)
PADDING (OPT)
270
MAC-ehs PAYLOAD
290

FIG. 2

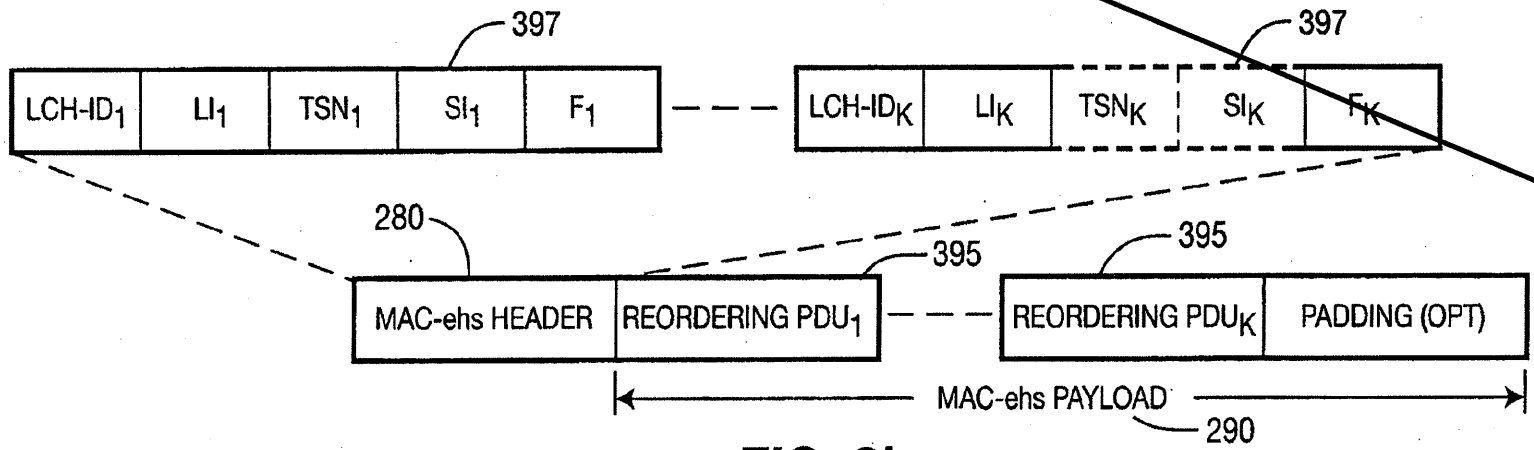

397
LCH-ID1
LI1
TSN1
SI1
F1
LCH-IDK
LIK
TSNK
SIK
FK
280
MAC-ehs HEADER
395
REORDERING PDU1
REORDERING PDUK
PADDING (OPT)
MAC-ehs PAYLOAD
290

FIG. 3b

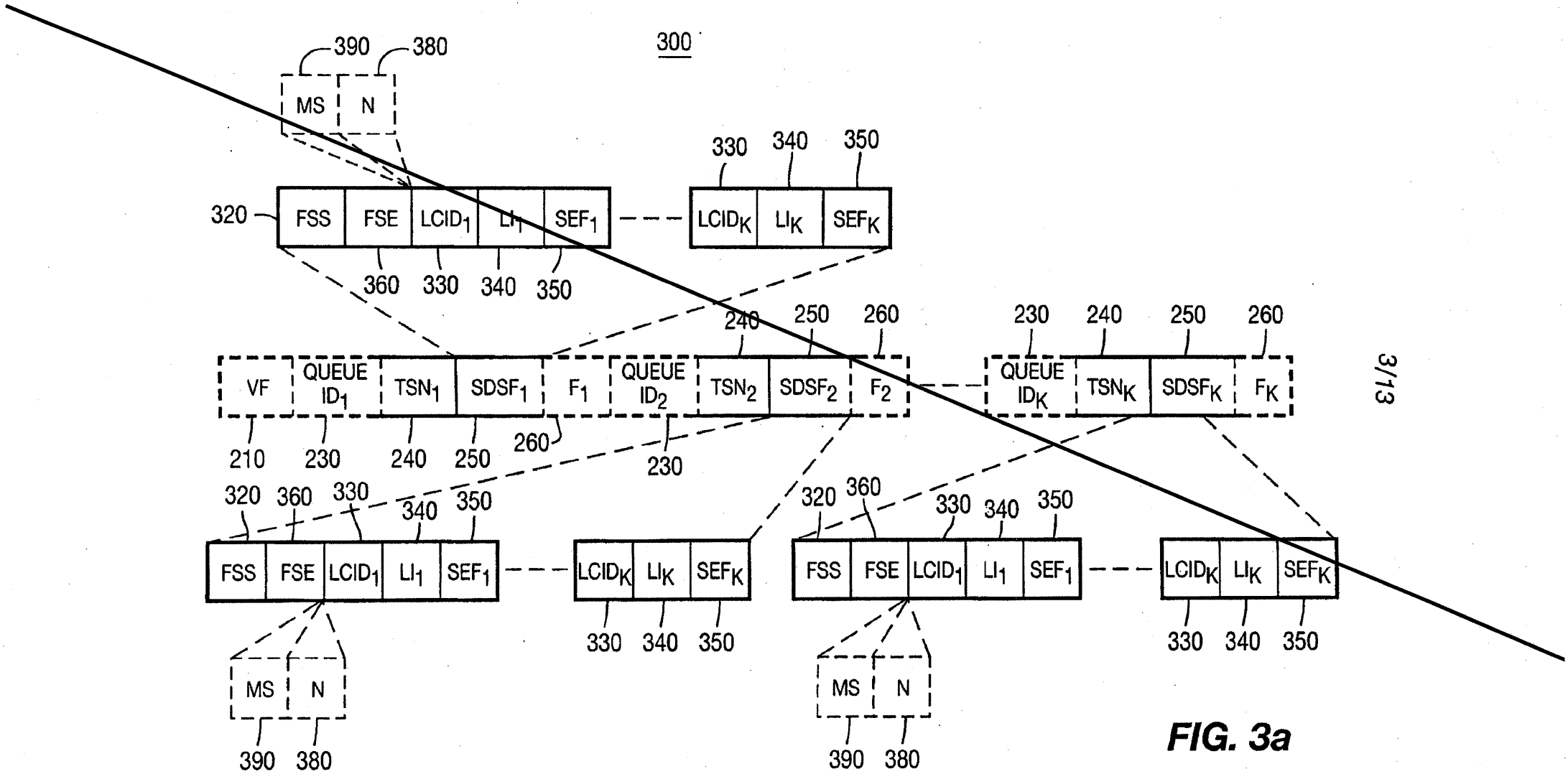

300
390
380
MS
N
320
FSS
FSE
LCID1
LI1
SEF1
LCIDK
LIK
SEFK
330
340
350
360
VF
QUEUE ID1
TSN1
SDSF1
F1
QUEUE ID2
TSN2
SDSF2
F2
QUEUE IDK
TSNK
SDSFK
FK
210
230
240
250
260

FIG. 3a

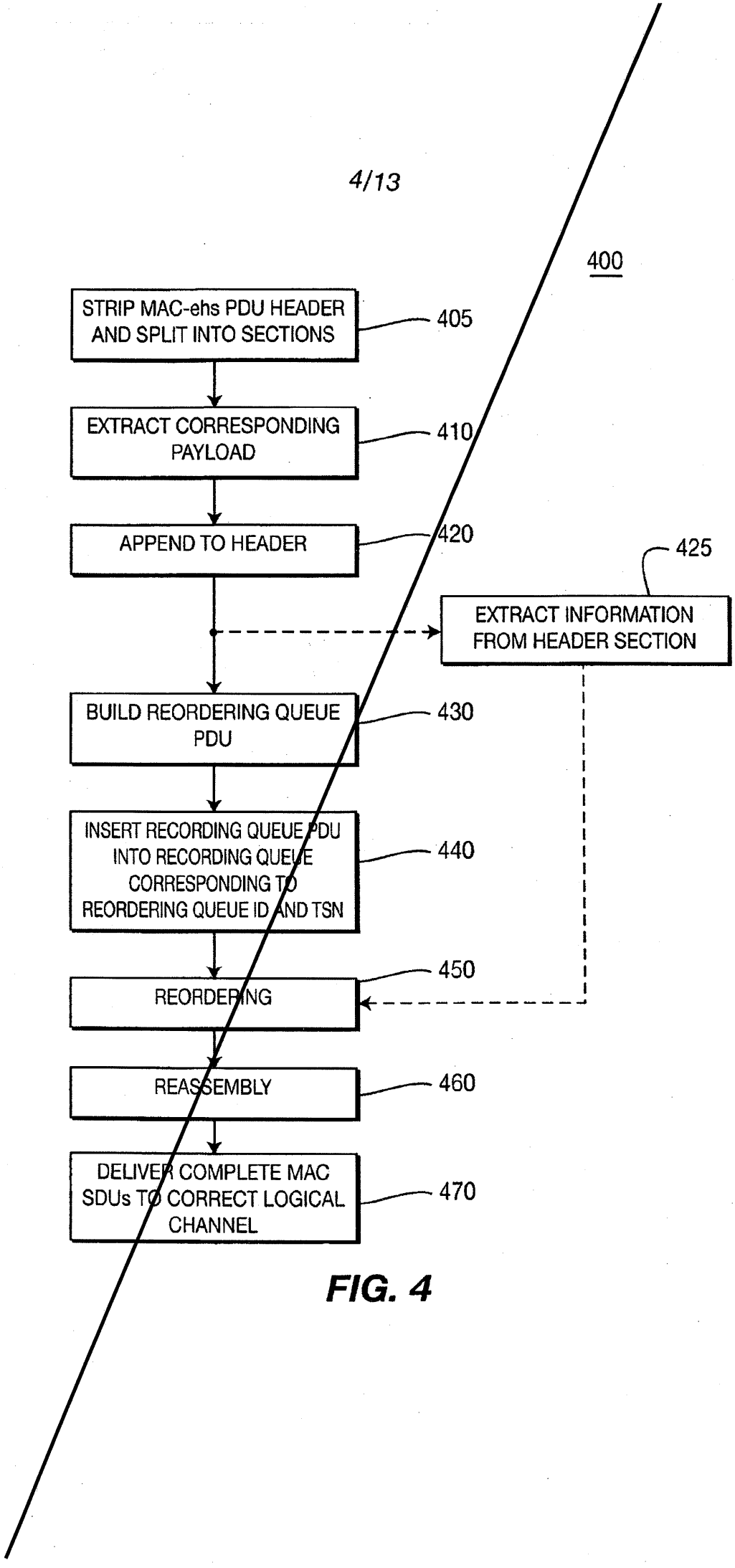

400
STRIP MAC-ehs PDU HEADER AND SPLIT INTO SECTIONS
405
EXTRACT CORRESPONDING PAYLOAD
410
APPEND TO HEADER
420
425
EXTRACT INFORMATION FROM HEADER SECTION
BUILD REORDERING QUEUE PDU
430
INSERT RECORDING QUEUE PDU INTO RECORDING QUEUE CORRESPONDING TO REORDERING QUEUE ID AND TSN
440
REORDERING
450
REASSEMBLY
460
DELIVER COMPLETE MAC SDUs TO CORRECT LOGICAL CHANNEL
470

FIG. 4

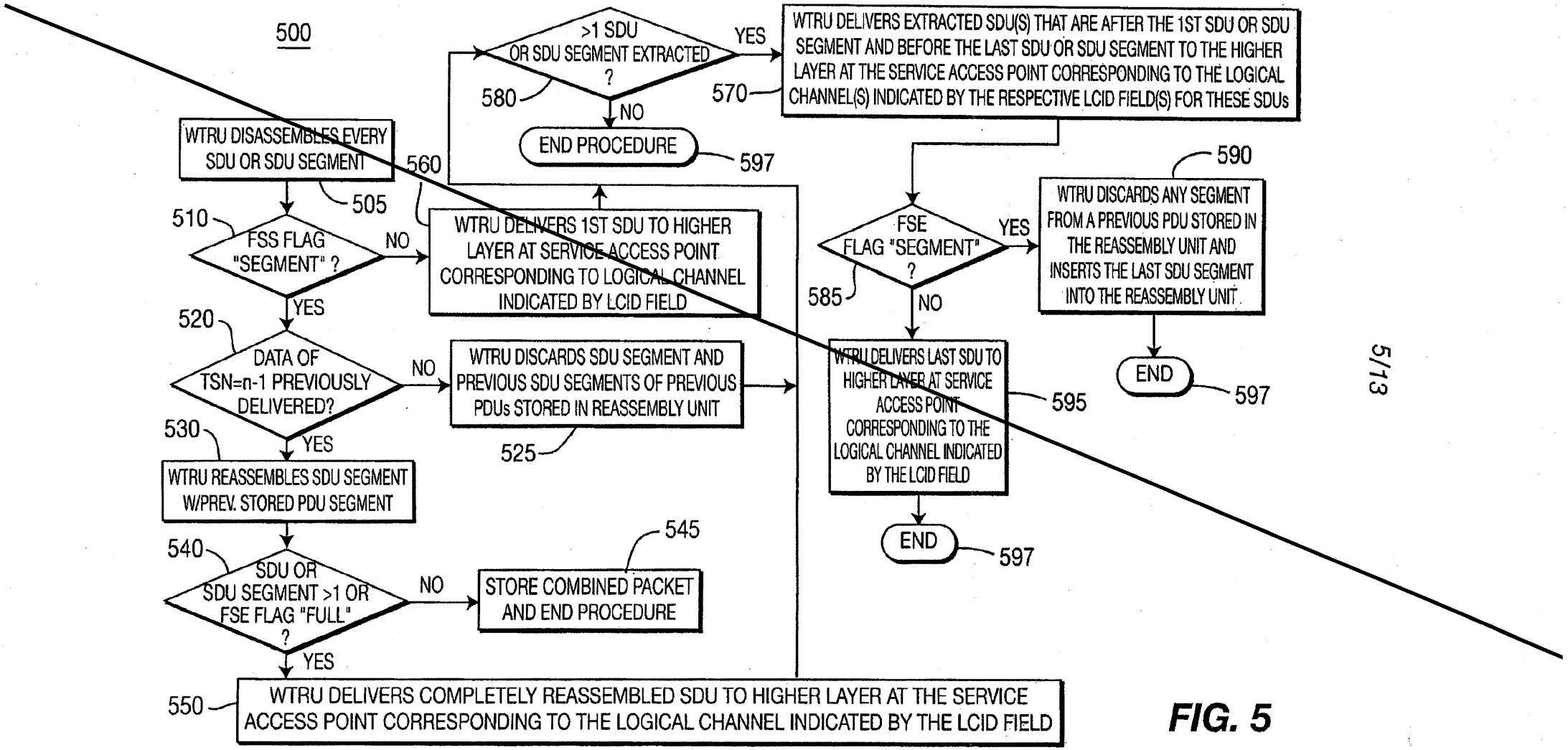

500
WTRU DISASSEMBLES EVERY SDU OR SDU SEGMENT
505
510
FSS FLAG "SEGMENT" ?
NO
YES
520
DATA OF TSN=n-1 PREVIOUSLY DELIVERED?
NO
YES
530
WTRU REASSEMBLES SDU SEGMENT W/PREV. STORED PDU SEGMENT
540
SDU OR SDU SEGMENT >1 OR FSE FLAG "FULL" ?
NO
YES
545
STORE COMBINED PACKET AND END PROCEDURE
550
WTRU DELIVERS COMPLETELY REASSEMBLED SDU TO HIGHER LAYER AT THE SERVICE ACCESS POINT CORRESPONDING TO THE LOGICAL CHANNEL INDICATED BY THE LCID FIELD
560
WTRU DELIVERS 1ST SDU TO HIGHER LAYER AT SERVICE ACCESS POINT CORRESPONDING TO LOGICAL CHANNEL INDICATED BY LCID FIELD
525
WTRU DISCARDS SDU SEGMENT AND PREVIOUS SDU SEGMENTS OF PREVIOUS PDUs STORED IN REASSEMBLY UNIT
580
>1 SDU OR SDU SEGMENT EXTRACTED ?
YES
NO
END PROCEDURE
597
570
WTRU DELIVERS EXTRACTED SDU(S) THAT ARE AFTER THE 1ST SDU OR SDU SEGMENT AND BEFORE THE LAST SDU OR SDU SEGMENT TO THE HIGHER LAYER AT THE SERVICE ACCESS POINT CORRESPONDING TO THE LOGICAL CHANNEL(S) INDICATED BY THE RESPECTIVE LCID FIELD(S) FOR THESE SDUs
585
FSE FLAG "SEGMENT" ?
YES
NO
590
WTRU DISCARDS ANY SEGMENT FROM A PREVIOUS PDU STORED IN THE REASSEMBLY UNIT AND INSERTS THE LAST SDU SEGMENT INTO THE REASSEMBLY UNIT
END
597
595
WTRU DELIVERS LAST SDU TO HIGHER LAYER AT SERVICE ACCESS POINT CORRESPONDING TO THE LOGICAL CHANNEL INDICATED BY THE LCID FIELD
END
597

FIG. 5

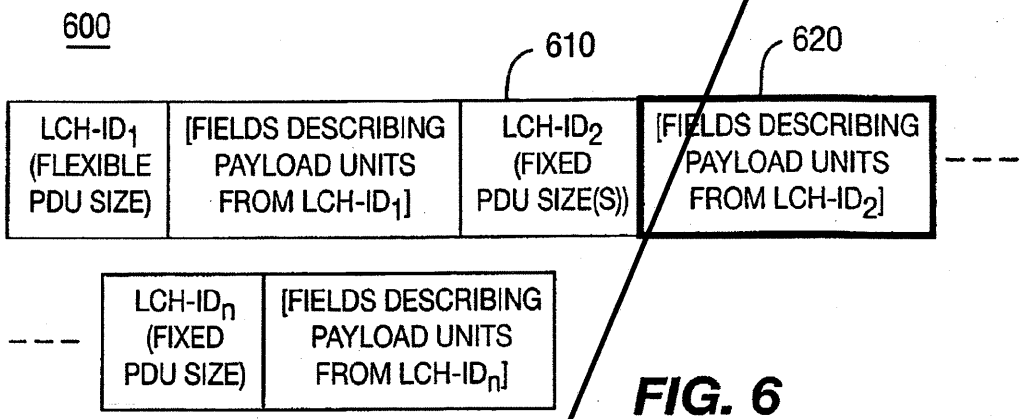


FIG. 6

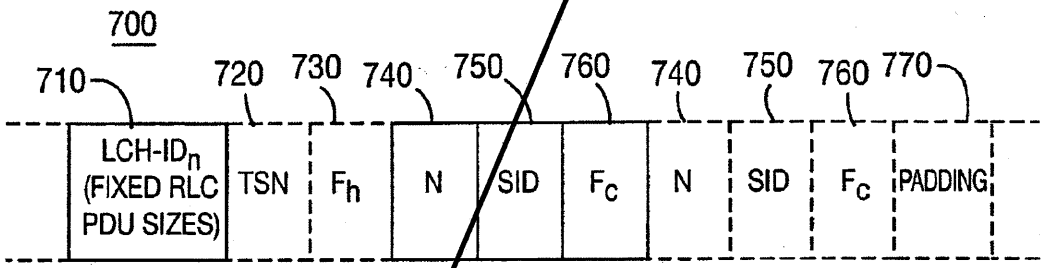


FIG. 7

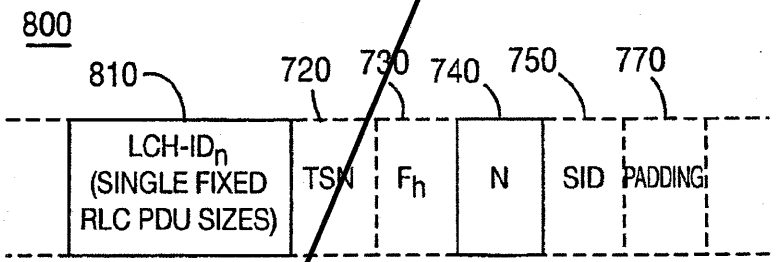


FIG. 8

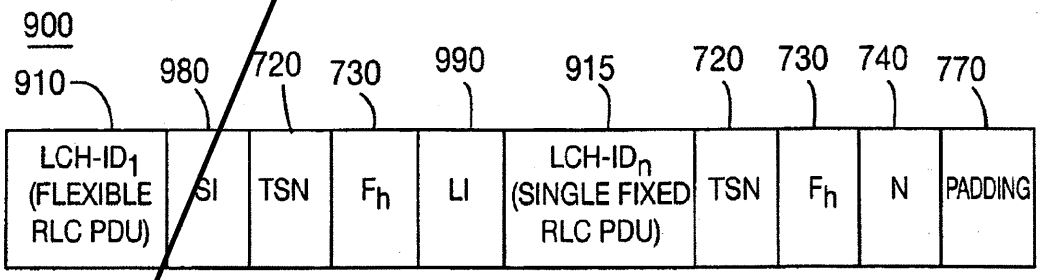


FIG. 9

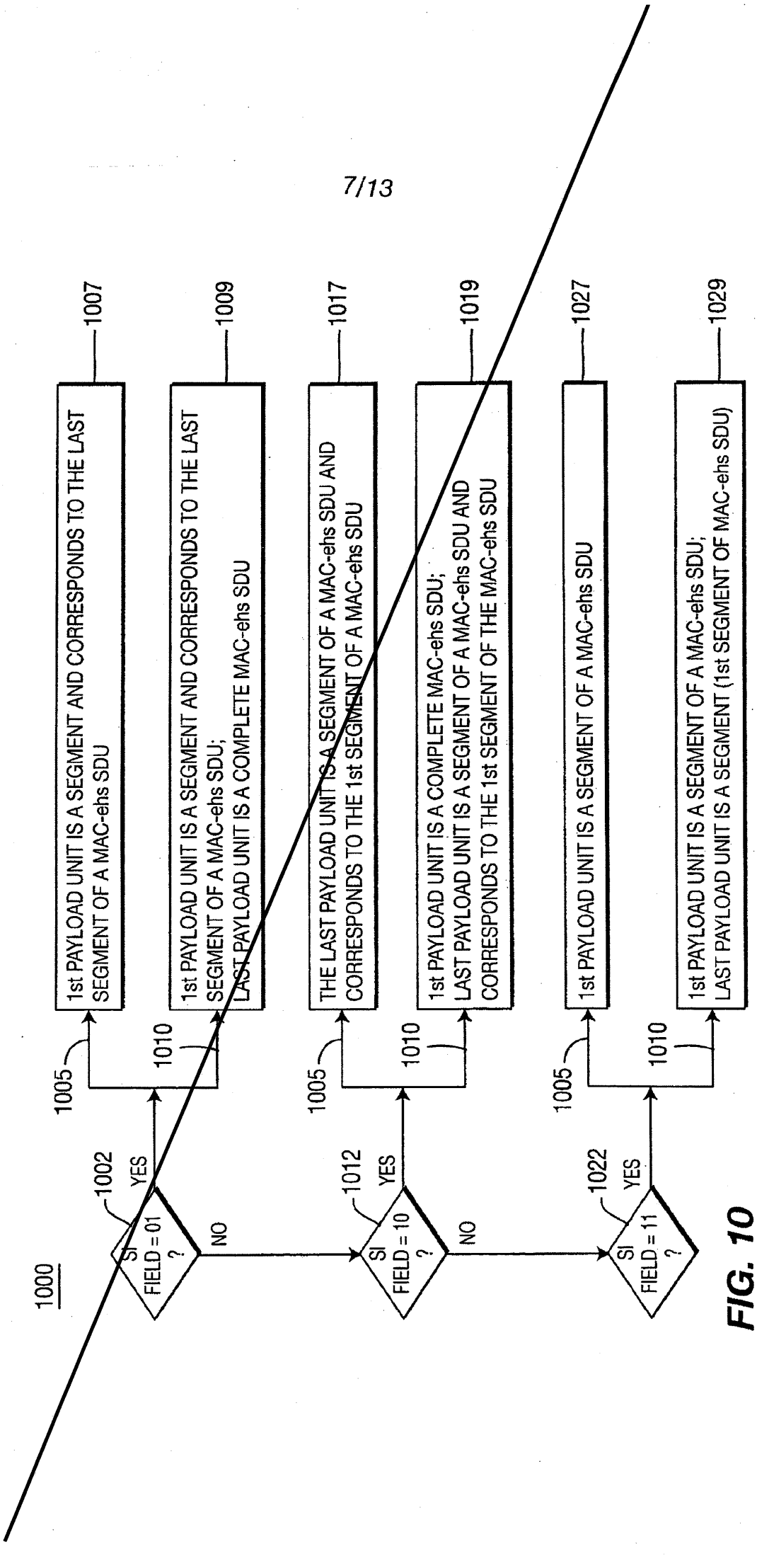

1000
SI FIELD = 01 ?
1002
YES
NO
1005
1007
1st PAYLOAD UNIT IS A SEGMENT AND CORRESPONDS TO THE LAST SEGMENT OF A MAC-ehs SDU
1010
1009
1st PAYLOAD UNIT IS A SEGMENT AND CORRESPONDS TO THE LAST SEGMENT OF A MAC-ehs SDU;
LAST PAYLOAD UNIT IS A COMPLETE MAC-ehs SDU
SI FIELD = 10 ?
1012
YES
NO
1005
1017
THE LAST PAYLOAD UNIT IS A SEGMENT OF A MAC-ehs SDU AND CORRESPONDS TO THE 1st SEGMENT OF A MAC-ehs SDU
1010
1019
1st PAYLOAD UNIT IS A COMPLETE MAC-ehs SDU;
LAST PAYLOAD UNIT IS A SEGMENT OF A MAC-ehs SDU AND CORRESPONDS TO THE 1st SEGMENT OF THE MAC-ehs SDU
SI FIELD = 11 ?
1022
YES
1005
1027
1st PAYLOAD UNIT IS A SEGMENT OF A MAC-ehs SDU
1010
1029
1st PAYLOAD UNIT IS A SEGMENT OF A MAC-ehs SDU;
LAST PAYLOAD UNIT IS A SEGMENT (1st SEGMENT OF MAC-ehs SDU)

FIG. 10

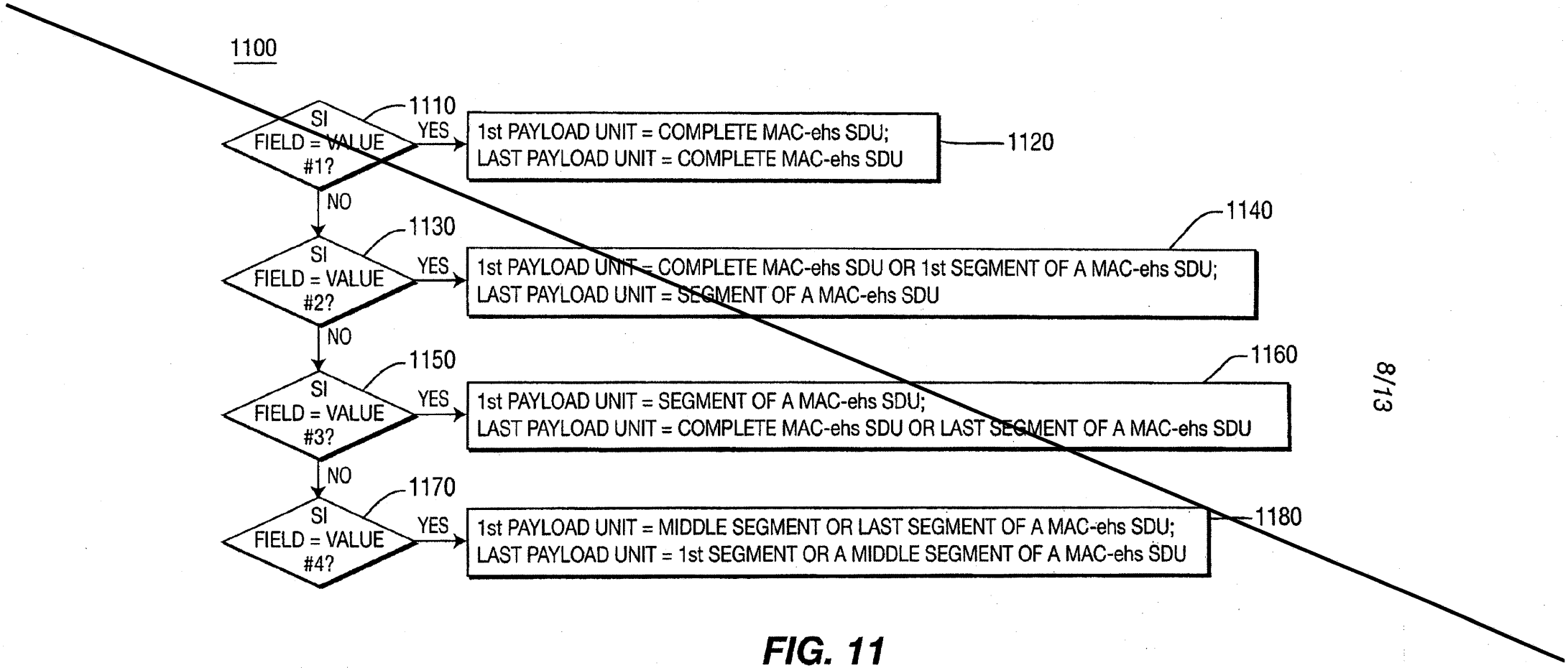

1100
SI FIELD = VALUE #1?
1110
YES
1st PAYLOAD UNIT = COMPLETE MAC-ehs SDU;
LAST PAYLOAD UNIT = COMPLETE MAC-ehs SDU
1120
NO
SI FIELD = VALUE #2?
1130
YES
1st PAYLOAD UNIT = COMPLETE MAC-ehs SDU OR 1st SEGMENT OF A MAC-ehs SDU;
LAST PAYLOAD UNIT = SEGMENT OF A MAC-ehs SDU
1140
NO
SI FIELD = VALUE #3?
1150
YES
1st PAYLOAD UNIT = SEGMENT OF A MAC-ehs SDU;
LAST PAYLOAD UNIT = COMPLETE MAC-ehs SDU OR LAST SEGMENT OF A MAC-ehs SDU
1160
NO
SI FIELD = VALUE #4?
1170
YES
1st PAYLOAD UNIT = MIDDLE SEGMENT OR LAST SEGMENT OF A MAC-ehs SDU;
LAST PAYLOAD UNIT = 1st SEGMENT OR A MIDDLE SEGMENT OF A MAC-ehs SDU
1180

FIG. 11

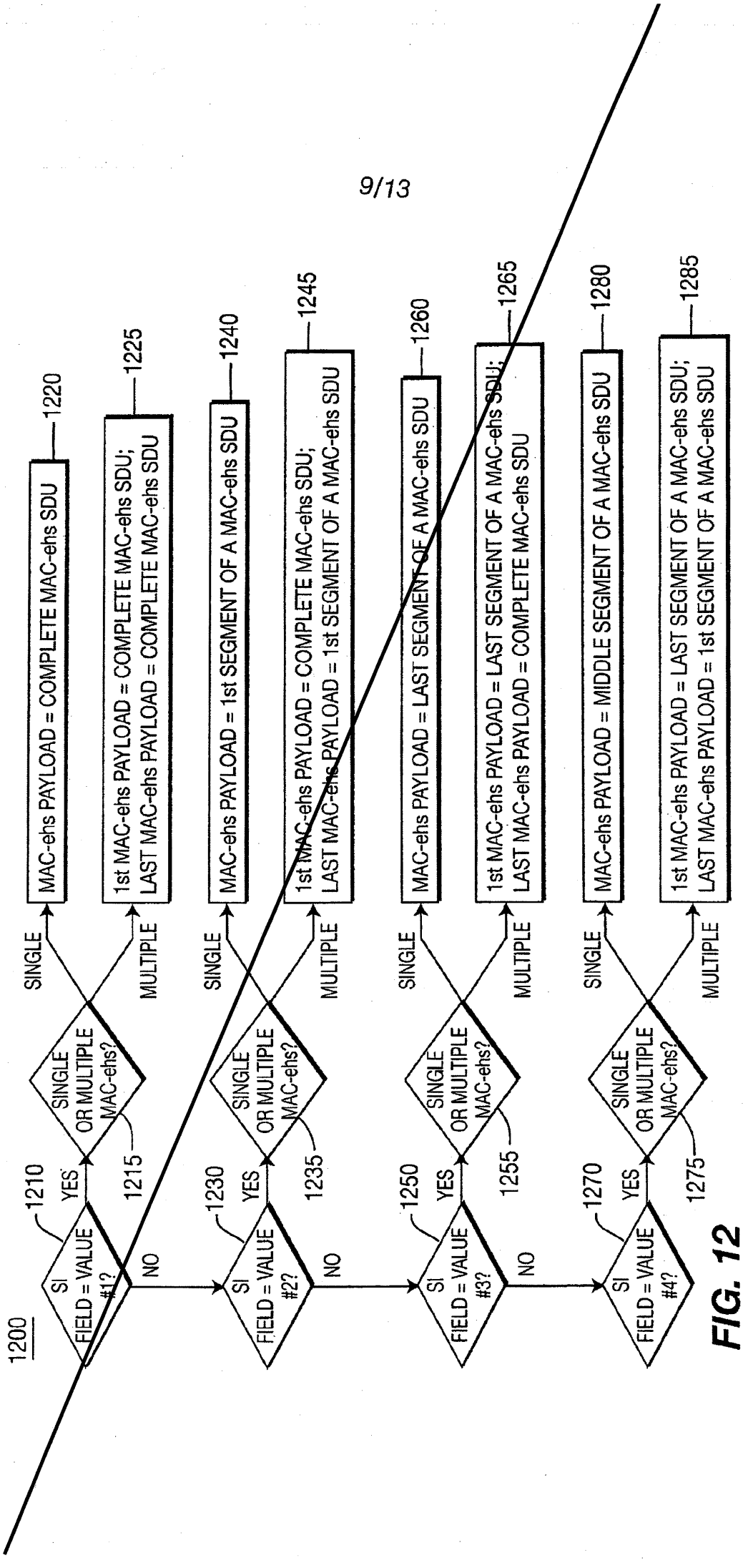

1200
SI FIELD = VALUE #1?
1210
YES
SINGLE OR MULTIPLE MAC-ehs?
1215
SINGLE
MAC-ehs PAYLOAD = COMPLETE MAC-ehs SDU
1220
MULTIPLE
1st MAC-ehs PAYLOAD = COMPLETE MAC-ehs SDU; LAST MAC-ehs PAYLOAD = COMPLETE MAC-ehs SDU
1225
NO
SI FIELD = VALUE #2?
1230
YES
SINGLE OR MULTIPLE MAC-ehs?
1235
SINGLE
MAC-ehs PAYLOAD = 1st SEGMENT OF A MAC-ehs SDU
1240
MULTIPLE
1st MAC-ehs PAYLOAD = COMPLETE MAC-ehs SDU; LAST MAC-ehs PAYLOAD = 1st SEGMENT OF A MAC-ehs SDU
1245
NO
SI FIELD = VALUE #3?
1250
YES
SINGLE OR MULTIPLE MAC-ehs?
1255
SINGLE
MAC-ehs PAYLOAD = LAST SEGMENT OF A MAC-ehs SDU
1260
MULTIPLE
1st MAC-ehs PAYLOAD = LAST SEGMENT OF A MAC-ehs SDU; LAST MAC-ehs PAYLOAD = COMPLETE MAC-ehs SDU
1265
NO
SI FIELD = VALUE #4?
1270
YES
SINGLE OR MULTIPLE MAC-ehs?
1275
SINGLE
MAC-ehs PAYLOAD = MIDDLE SEGMENT OF A MAC-ehs SDU
1280
MULTIPLE
1st MAC-ehs PAYLOAD = LAST SEGMENT OF A MAC-ehs SDU; LAST MAC-ehs PAYLOAD = 1st SEGMENT OF A MAC-ehs SDU
1285

FIG. 12

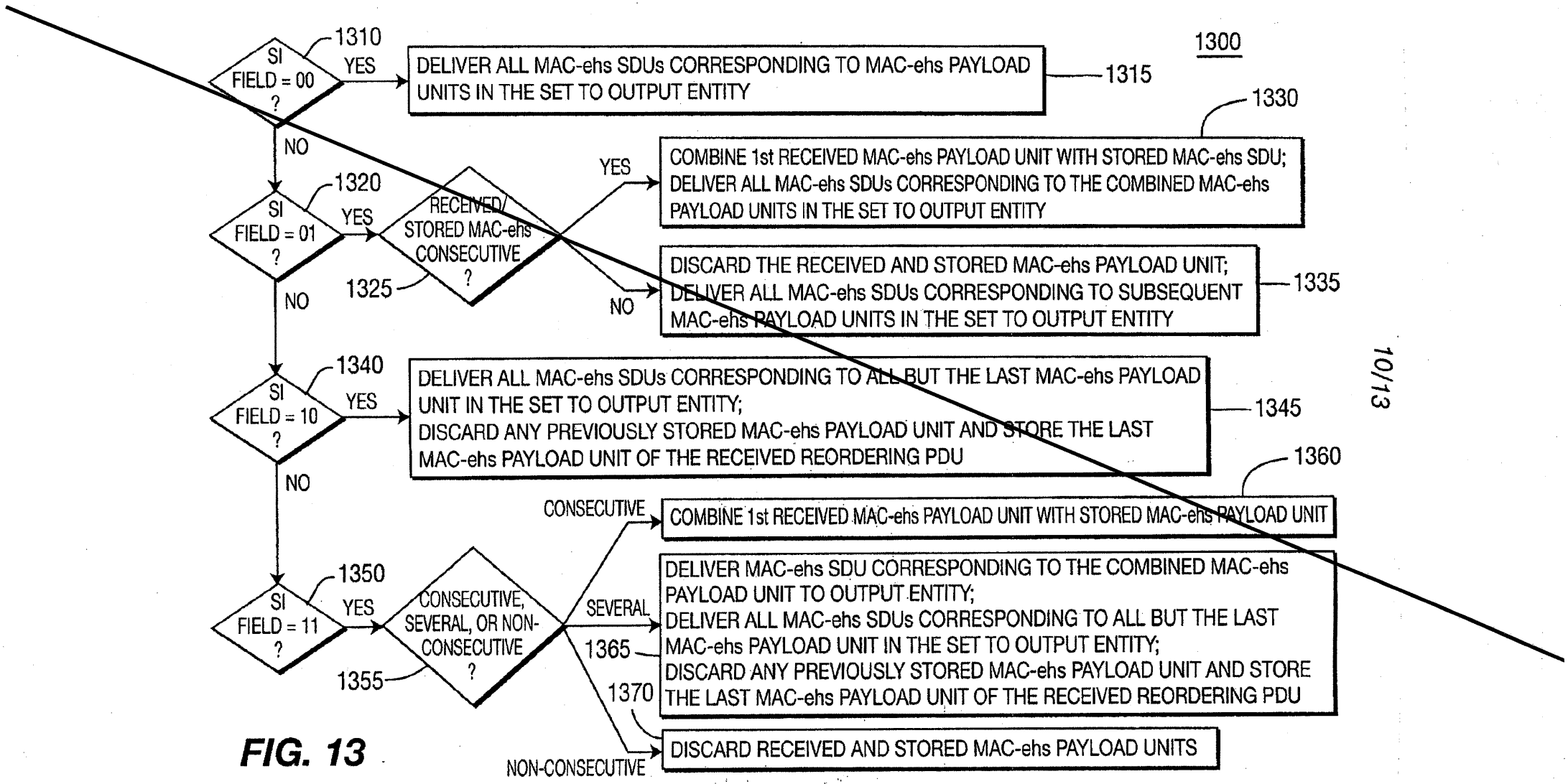

1300
SI FIELD = 00 ?
1310
YES
DELIVER ALL MAC-ehs SDUs CORRESPONDING TO MAC-ehs PAYLOAD UNITS IN THE SET TO OUTPUT ENTITY
1315
NO
SI FIELD = 01 ?
1320
YES
RECEIVED/ STORED MAC-ehs CONSECUTIVE ?
1325
YES
COMBINE 1st RECEIVED MAC-ehs PAYLOAD UNIT WITH STORED MAC-ehs SDU; DELIVER ALL MAC-ehs SDUs CORRESPONDING TO THE COMBINED MAC-ehs PAYLOAD UNITS IN THE SET TO OUTPUT ENTITY
1330
NO
DISCARD THE RECEIVED AND STORED MAC-ehs PAYLOAD UNIT; DELIVER ALL MAC-ehs SDUs CORRESPONDING TO SUBSEQUENT MAC-ehs PAYLOAD UNITS IN THE SET TO OUTPUT ENTITY
1335
NO
SI FIELD = 10 ?
1340
YES
DELIVER ALL MAC-ehs SDUs CORRESPONDING TO ALL BUT THE LAST MAC-ehs PAYLOAD UNIT IN THE SET TO OUTPUT ENTITY; DISCARD ANY PREVIOUSLY STORED MAC-ehs PAYLOAD UNIT AND STORE THE LAST MAC-ehs PAYLOAD UNIT OF THE RECEIVED REORDERING PDU
1345
NO
SI FIELD = 11 ?
1350
YES
CONSECUTIVE, SEVERAL, OR NON-CONSECUTIVE ?
1355
CONSECUTIVE
COMBINE 1st RECEIVED MAC-ehs PAYLOAD UNIT WITH STORED MAC-ehs PAYLOAD UNIT
1360
SEVERAL
DELIVER MAC-ehs SDU CORRESPONDING TO THE COMBINED MAC-ehs PAYLOAD UNIT TO OUTPUT ENTITY; DELIVER ALL MAC-ehs SDUs CORRESPONDING TO ALL BUT THE LAST MAC-ehs PAYLOAD UNIT IN THE SET TO OUTPUT ENTITY; DISCARD ANY PREVIOUSLY STORED MAC-ehs PAYLOAD UNIT AND STORE THE LAST MAC-ehs PAYLOAD UNIT OF THE RECEIVED REORDERING PDU
1365
NON-CONSECUTIVE
1370
DISCARD RECEIVED AND STORED MAC-ehs PAYLOAD UNITS

FIG. 13

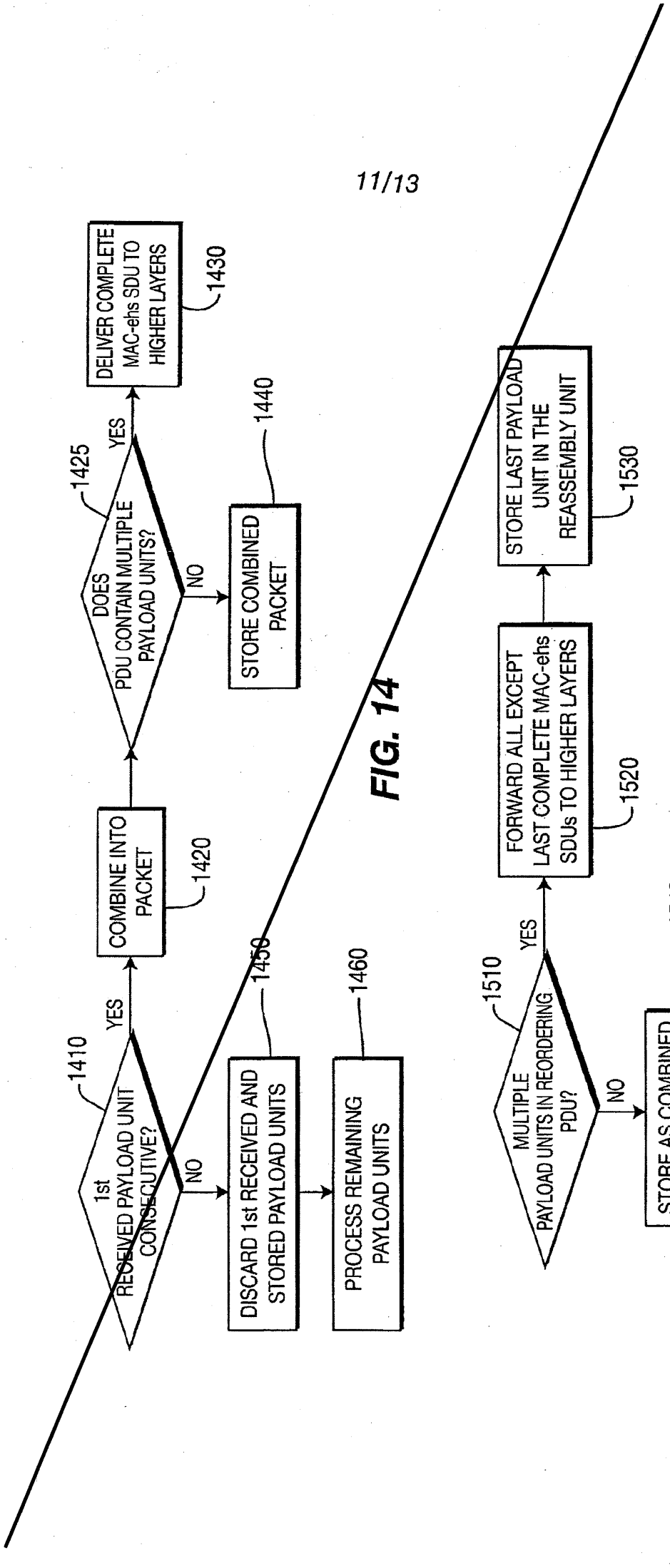

1st RECEIVED PAYLOAD UNIT CONSECUTIVE?
1410
YES
NO
COMBINE INTO PACKET
1420
DISCARD 1st RECEIVED AND STORED PAYLOAD UNITS
1450
PROCESS REMAINING PAYLOAD UNITS
1460
DOES PDU CONTAIN MULTIPLE PAYLOAD UNITS?
1425
YES
NO
DELIVER COMPLETE MAC-ehs SDU TO HIGHER LAYERS
1430
STORE COMBINED PACKET
1440
MULTIPLE PAYLOAD UNITS IN REORDERING PDU?
1510
YES
NO
FORWARD ALL EXCEPT LAST COMPLETE MAC-ehs SDUs TO HIGHER LAYERS
1520
STORE LAST PAYLOAD UNIT IN THE REASSEMBLY UNIT
1530
STORE AS COMBINED PACKET
1540

FIG. 14

FIG. 15

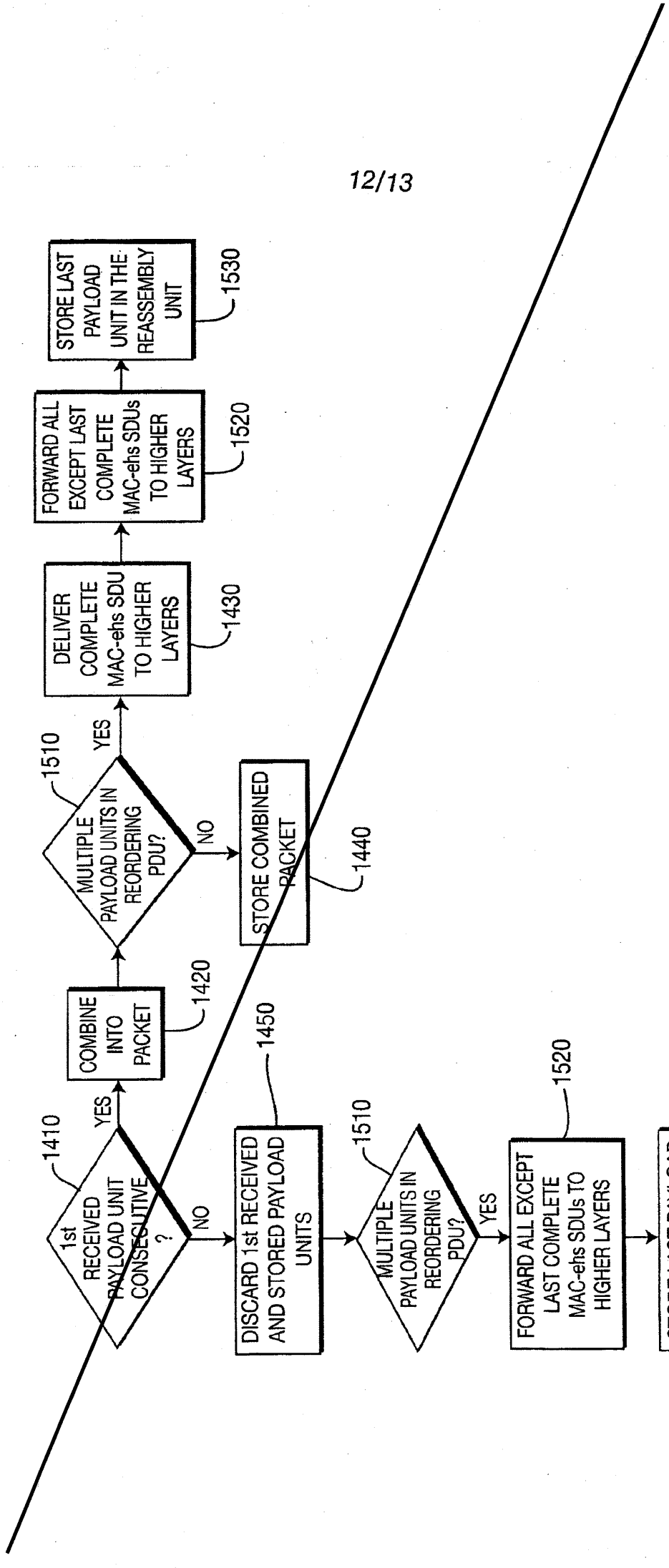

1410
1st RECEIVED PAYLOAD UNIT CONSECUTIVE ?
YES
NO
COMBINE INTO PACKET
1420
DISCARD 1st RECEIVED AND STORED PAYLOAD UNITS
1450
MULTIPLE PAYLOAD UNITS IN REORDERING PDU?
1510
YES
NO
DELIVER COMPLETE MAC-ehs SDU TO HIGHER LAYERS
1430
STORE COMBINED PACKET
1440
MULTIPLE PAYLOAD UNITS IN REORDERING PDU?
1510
YES
NO
FORWARD ALL EXCEPT LAST COMPLETE MAC-ehs SDUs TO HIGHER LAYERS
1520
STORE LAST PAYLOAD UNIT IN THE REASSEMBLY UNIT
1530
FORWARD ALL EXCEPT LAST COMPLETE MAC-ehs SDUs TO HIGHER LAYERS
1520
STORE LAST PAYLOAD UNIT IN THE REASSEMBLY UNIT
1530

FIG. 16

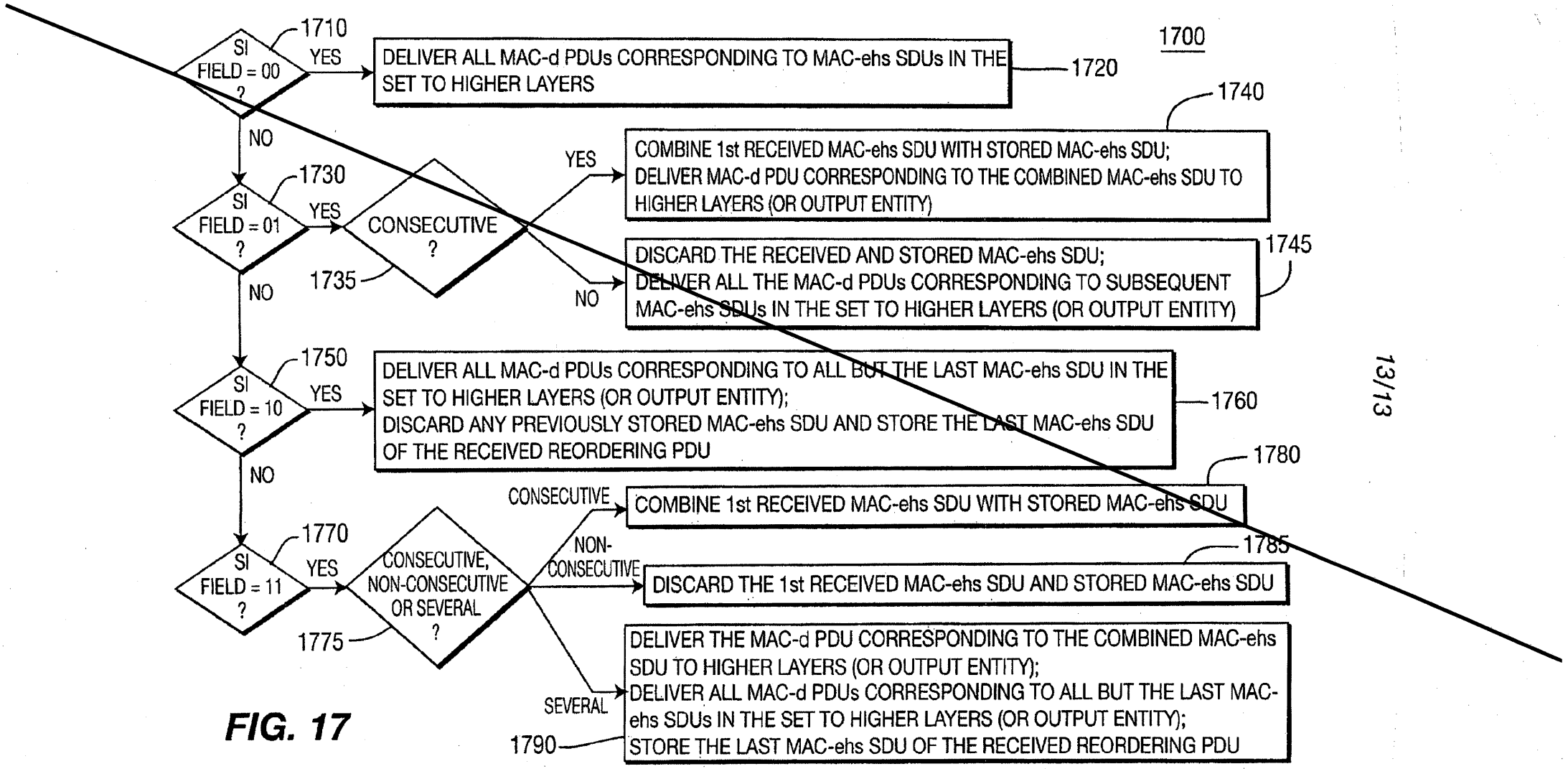

1700
1710
SI FIELD = 00 ?
YES
DELIVER ALL MAC-d PDUs CORRESPONDING TO MAC-ehs SDUs IN THE SET TO HIGHER LAYERS
1720
NO
1730
SI FIELD = 01 ?
YES
CONSECUTIVE ?
1735
YES
COMBINE 1st RECEIVED MAC-ehs SDU WITH STORED MAC-ehs SDU; DELIVER MAC-d PDU CORRESPONDING TO THE COMBINED MAC-ehs SDU TO HIGHER LAYERS (OR OUTPUT ENTITY)
1740
NO
DISCARD THE RECEIVED AND STORED MAC-ehs SDU; DELIVER ALL THE MAC-d PDUs CORRESPONDING TO SUBSEQUENT MAC-ehs SDUs IN THE SET TO HIGHER LAYERS (OR OUTPUT ENTITY)
1745
NO
1750
SI FIELD = 10 ?
YES
DELIVER ALL MAC-d PDUs CORRESPONDING TO ALL BUT THE LAST MAC-ehs SDU IN THE SET TO HIGHER LAYERS (OR OUTPUT ENTITY); DISCARD ANY PREVIOUSLY STORED MAC-ehs SDU AND STORE THE LAST MAC-ehs SDU OF THE RECEIVED REORDERING PDU
1760
NO
1770
SI FIELD = 11 ?
YES
CONSECUTIVE, NON-CONSECUTIVE OR SEVERAL ?
1775
CONSECUTIVE
COMBINE 1st RECEIVED MAC-ehs SDU WITH STORED MAC-ehs SDU
1780
NON-CONSECUTIVE
DISCARD THE 1st RECEIVED MAC-ehs SDU AND STORED MAC-ehs SDU
1785
SEVERAL
DELIVER THE MAC-d PDU CORRESPONDING TO THE COMBINED MAC-ehs SDU TO HIGHER LAYERS (OR OUTPUT ENTITY); DELIVER ALL MAC-d PDUs CORRESPONDING TO ALL BUT THE LAST MAC-ehs SDUs IN THE SET TO HIGHER LAYERS (OR OUTPUT ENTITY); STORE THE LAST MAC-ehs SDU OF THE RECEIVED REORDERING PDU
1790

FIG. 17

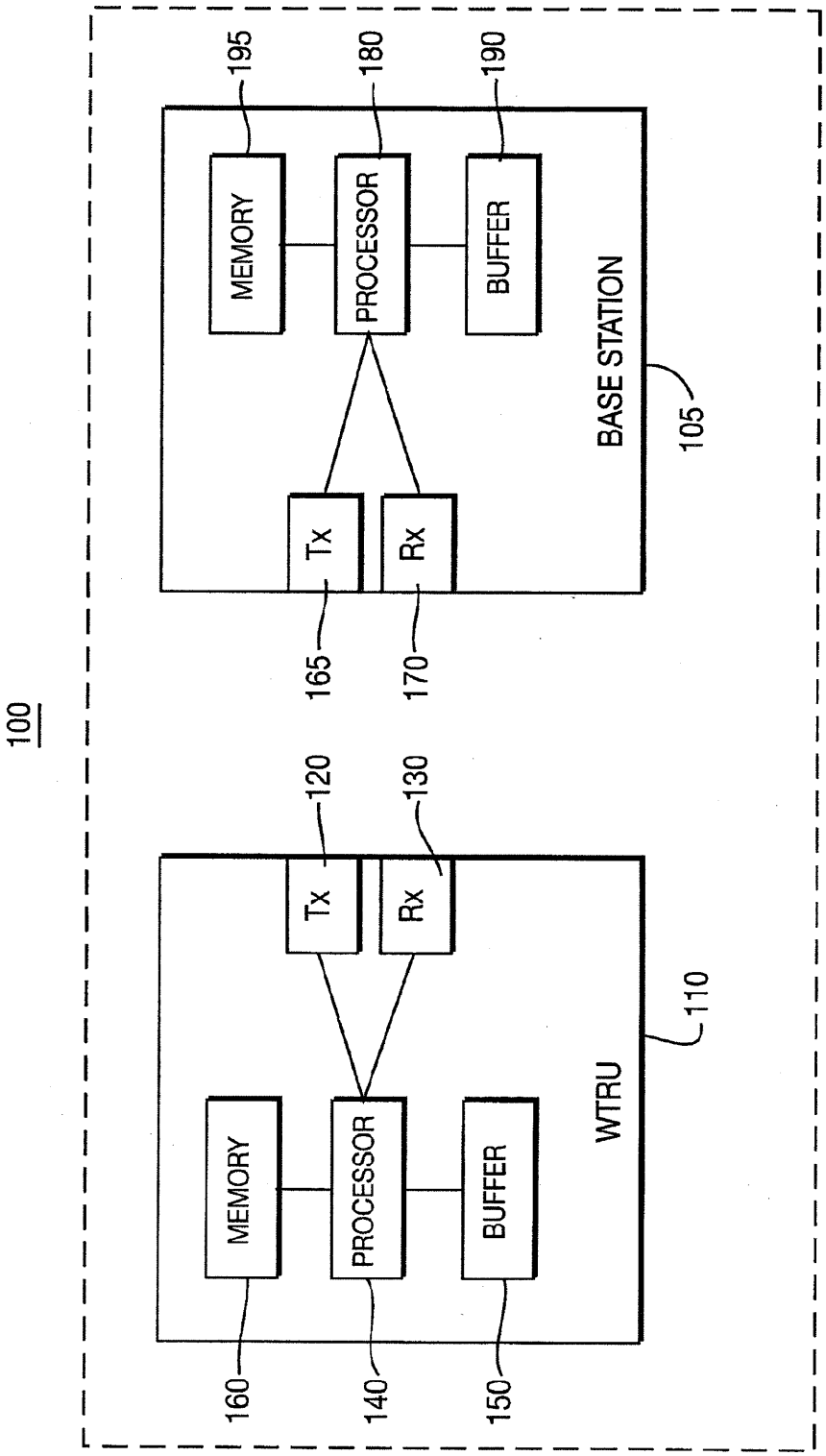

100
195
180
190
MEMORY
PROCESSOR
BUFFER
BASE STATION
105
Tx
Rx
165
170
120
130
Tx
Rx
110
WTRU
MEMORY
PROCESSOR
BUFFER
160
140
150

FIG. 1

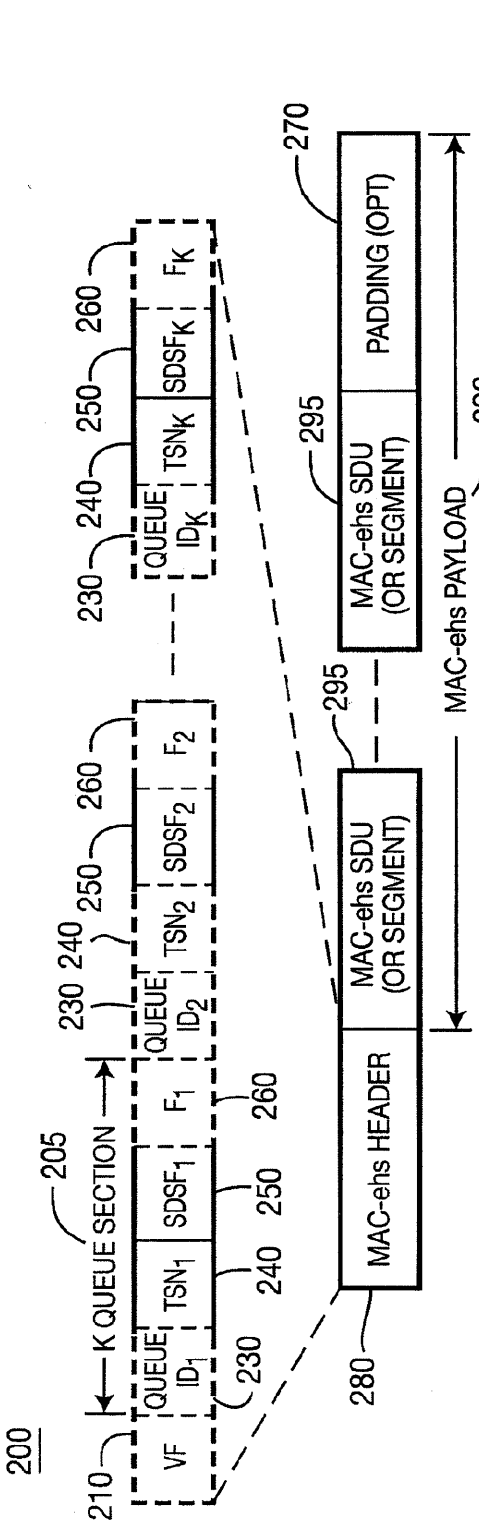

200
210
205
K QUEUE SECTION
VF
QUEUE ID1
TSN1
SDSF1
F1
QUEUE ID2
TSN2
SDSF2
F2
QUEUE IDK
TSNK
SDSFK
FK
230
240
250
260
270
280
290
295
MAC-ehs HEADER
MAC-ehs SDU (OR SEGMENT)
PADDING (OPT)
MAC-ehs PAYLOAD

FIG. 2

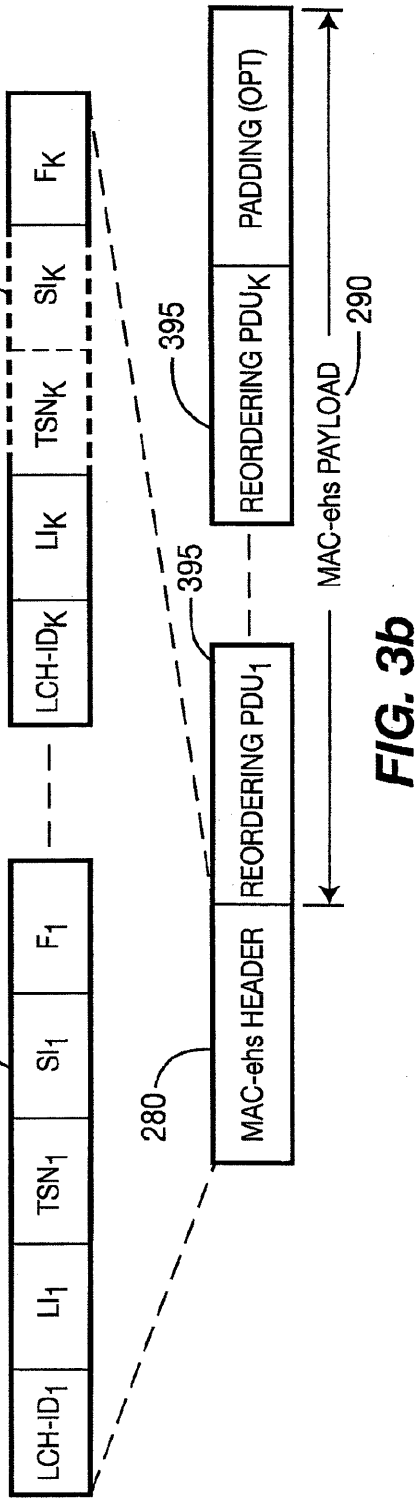

LCH-ID1
LI1
TSN1
SI1
F1
LCH-IDK
LIK
TSNK
SIK
FK
397
395
280
290
MAC-ehs HEADER
REORDERING PDU1
REORDERING PDUK
PADDING (OPT)
MAC-ehs PAYLOAD

FIG. 3b

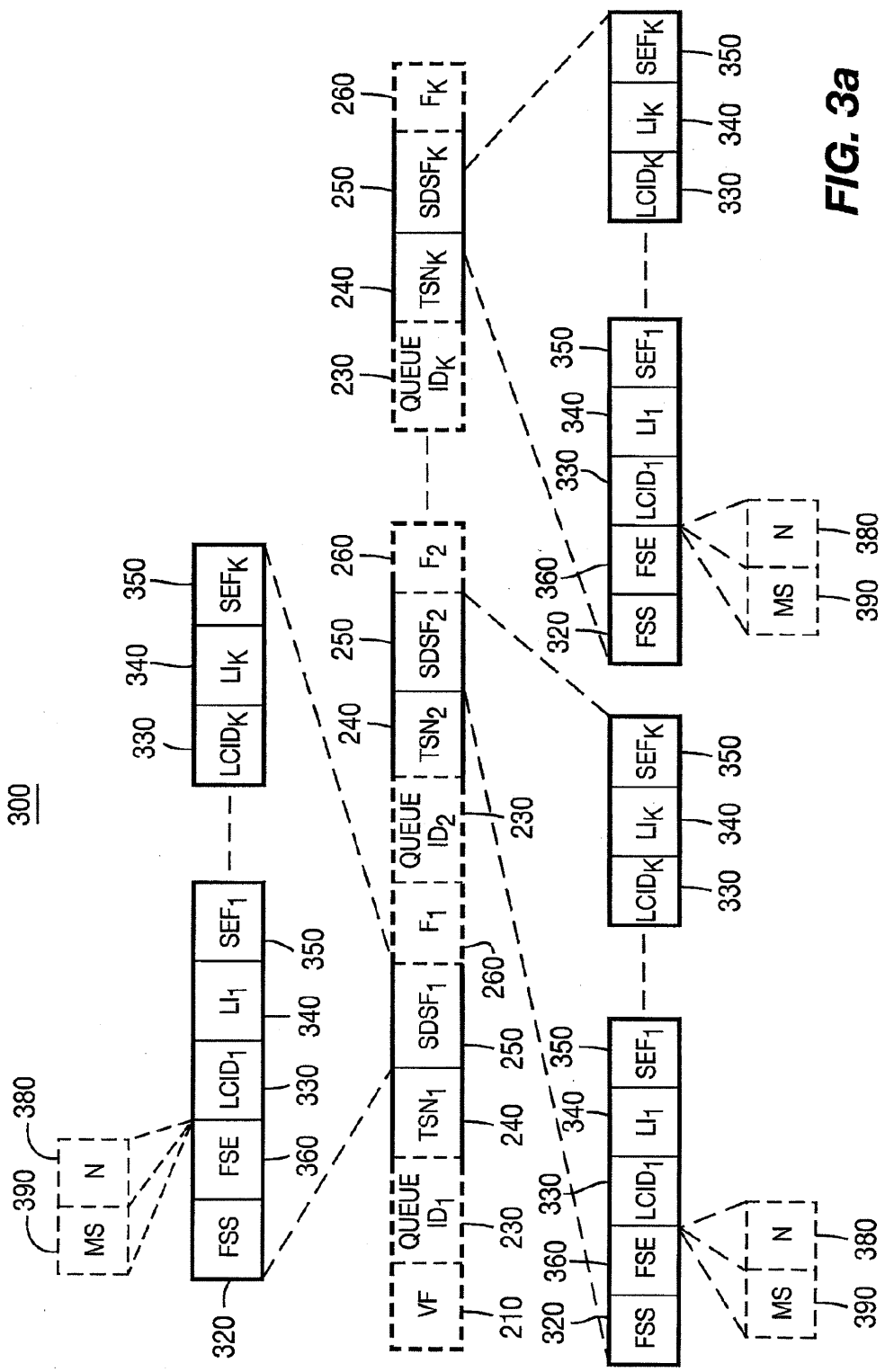

300
VF
QUEUE ID1
TSN1
SDSF1
F1
QUEUE ID2
TSN2
SDSF2
F2
QUEUE IDK
TSNK
SDSFK
FK
FSS
FSE
LCID1
LI1
SEF1
LCIDK
LIK
SEFK
MS
N
210
220
230
240
250
260
320
330
340
350
360
380
390

FIG. 3a

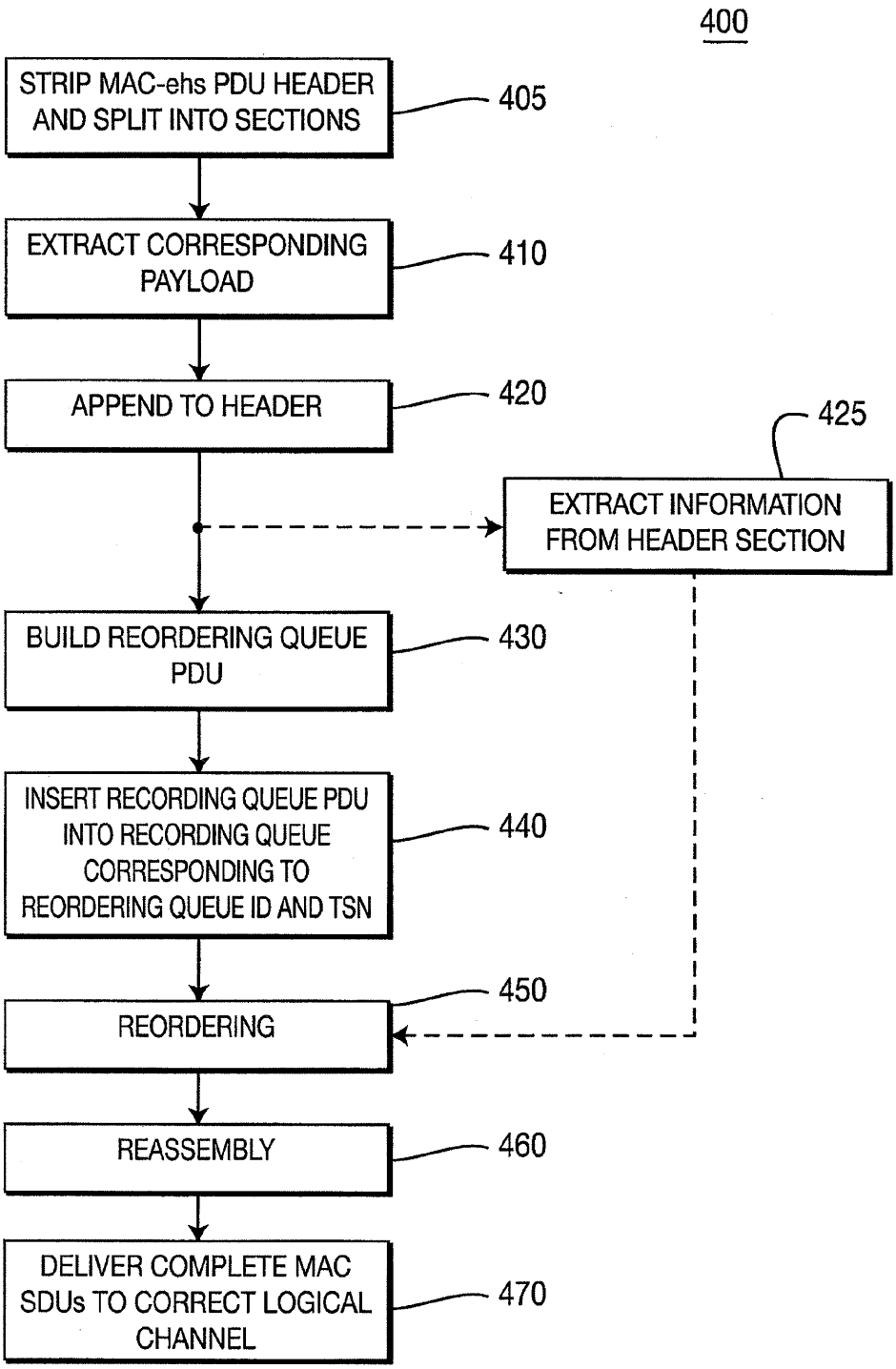

400
STRIP MAC-ehs PDU HEADER AND SPLIT INTO SECTIONS
405
EXTRACT CORRESPONDING PAYLOAD
410
APPEND TO HEADER
420
425
EXTRACT INFORMATION FROM HEADER SECTION
BUILD REORDERING QUEUE PDU
430
INSERT RECORDING QUEUE PDU INTO RECORDING QUEUE CORRESPONDING TO REORDERING QUEUE ID AND TSN
440
REORDERING
450
REASSEMBLY
460
DELIVER COMPLETE MAC SDUs TO CORRECT LOGICAL CHANNEL
470

FIG. 4

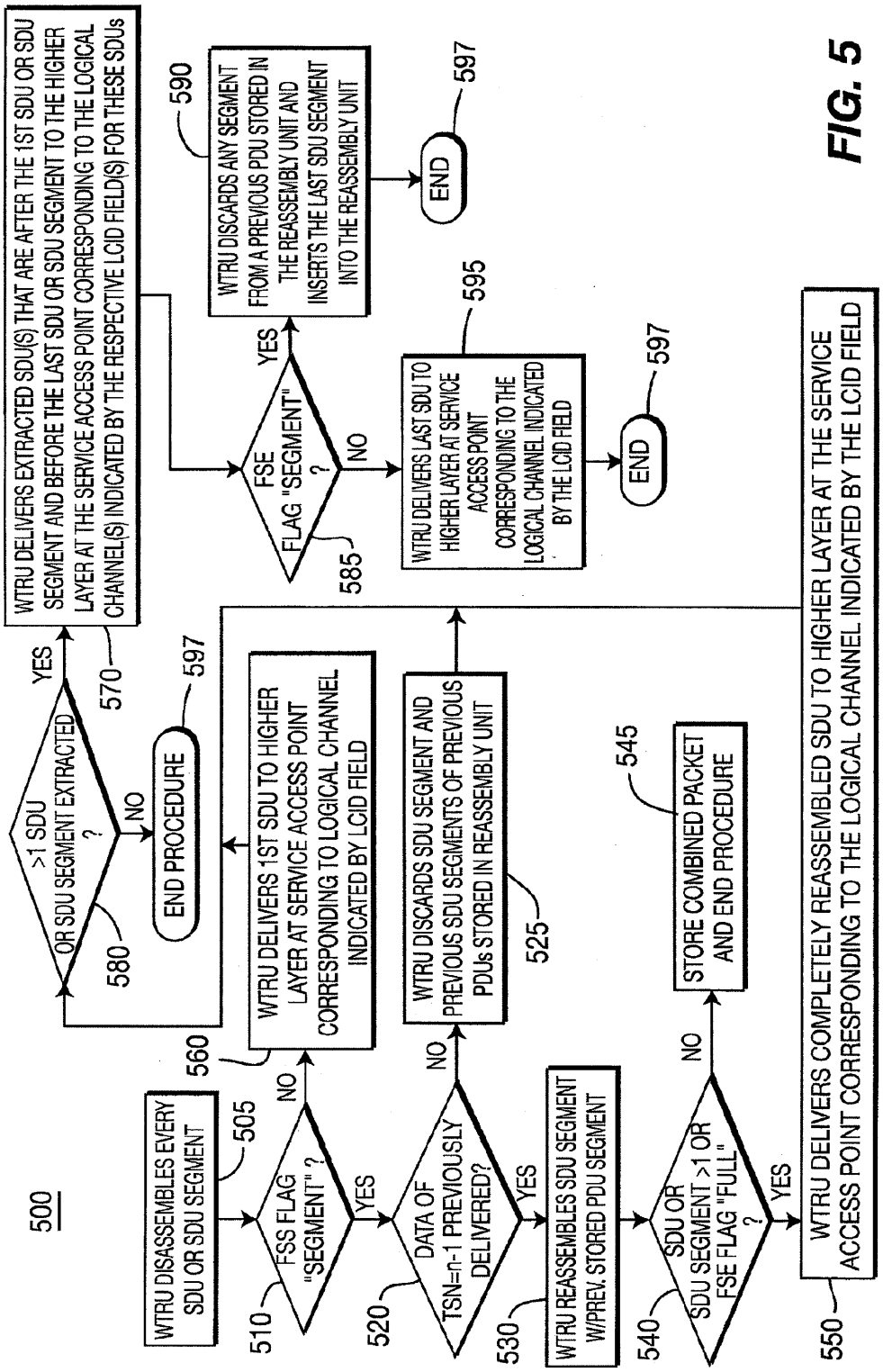

500
WTRU DISASSEMBLES EVERY SDU OR SDU SEGMENT
505
FSS FLAG "SEGMENT" ?
510
YES
NO
DATA OF TSN=n-1 PREVIOUSLY DELIVERED?
520
YES
NO
WTRU REASSEMBLES SDU SEGMENT W/PREV. STORED PDU SEGMENT
530
SDU OR SDU SEGMENT >1 OR FSE FLAG "FULL" ?
540
YES
NO
WTRU DELIVERS COMPLETELY REASSEMBLED SDU TO HIGHER LAYER AT THE SERVICE ACCESS POINT CORRESPONDING TO THE LOGICAL CHANNEL INDICATED BY THE LCID FIELD
550
STORE COMBINED PACKET AND END PROCEDURE
545
WTRU DISCARDS SDU SEGMENT AND PREVIOUS SDU SEGMENTS OF PREVIOUS PDUs STORED IN REASSEMBLY UNIT
525
WTRU DELIVERS 1ST SDU TO HIGHER LAYER AT SERVICE ACCESS POINT CORRESPONDING TO LOGICAL CHANNEL INDICATED BY LCID FIELD
560
>1 SDU OR SDU SEGMENT EXTRACTED ?
580
YES
NO
END PROCEDURE
597
WTRU DELIVERS EXTRACTED SDU(S) THAT ARE AFTER THE 1ST SDU OR SDU SEGMENT AND BEFORE THE LAST SDU OR SDU SEGMENT TO THE HIGHER LAYER AT THE SERVICE ACCESS POINT CORRESPONDING TO THE LOGICAL CHANNEL(S) INDICATED BY THE RESPECTIVE LCID FIELD(S) FOR THESE SDUs
570
FSE FLAG "SEGMENT" ?
585
YES
NO
WTRU DISCARDS ANY SEGMENT FROM A PREVIOUS PDU STORED IN THE REASSEMBLY UNIT AND INSERTS THE LAST SDU SEGMENT INTO THE REASSEMBLY UNIT
590
END
597
WTRU DELIVERS LAST SDU TO HIGHER LAYER AT SERVICE ACCESS POINT CORRESPONDING TO THE LOGICAL CHANNEL INDICATED BY THE LCID FIELD
595
END
597

FIG. 5

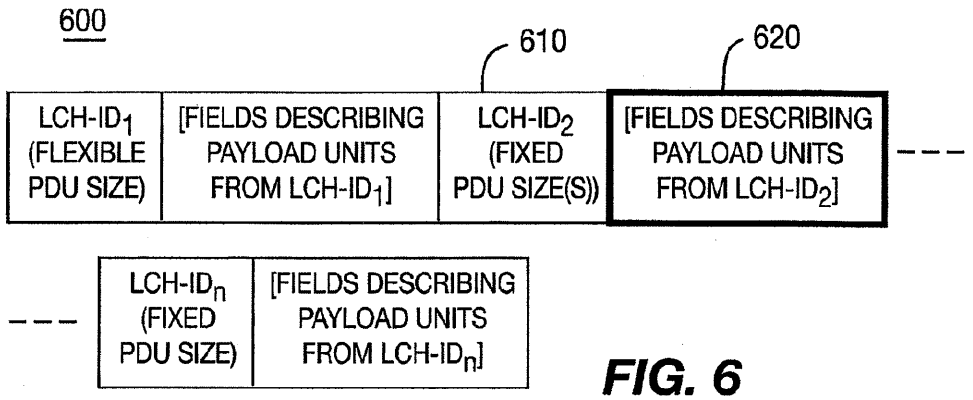


FIG. 6

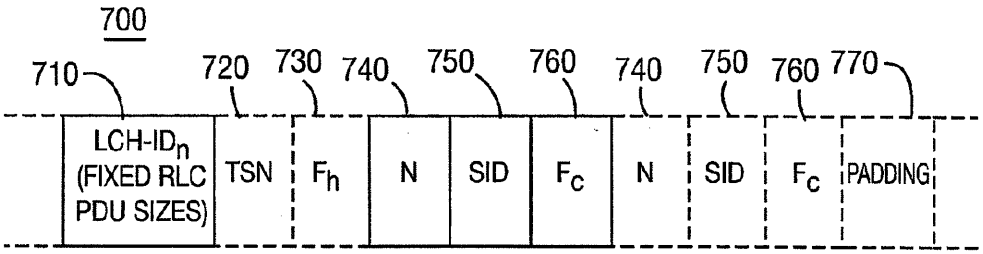


FIG. 7

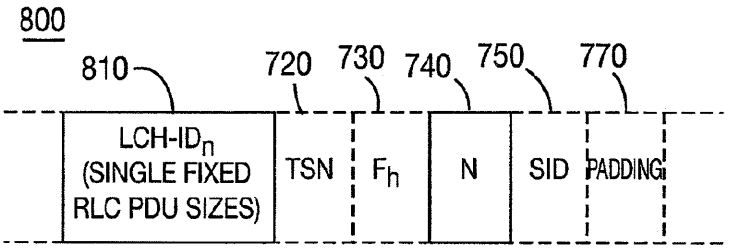


FIG. 8

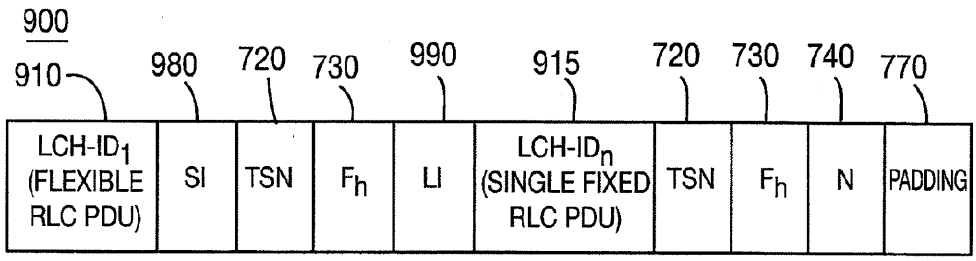


FIG. 9

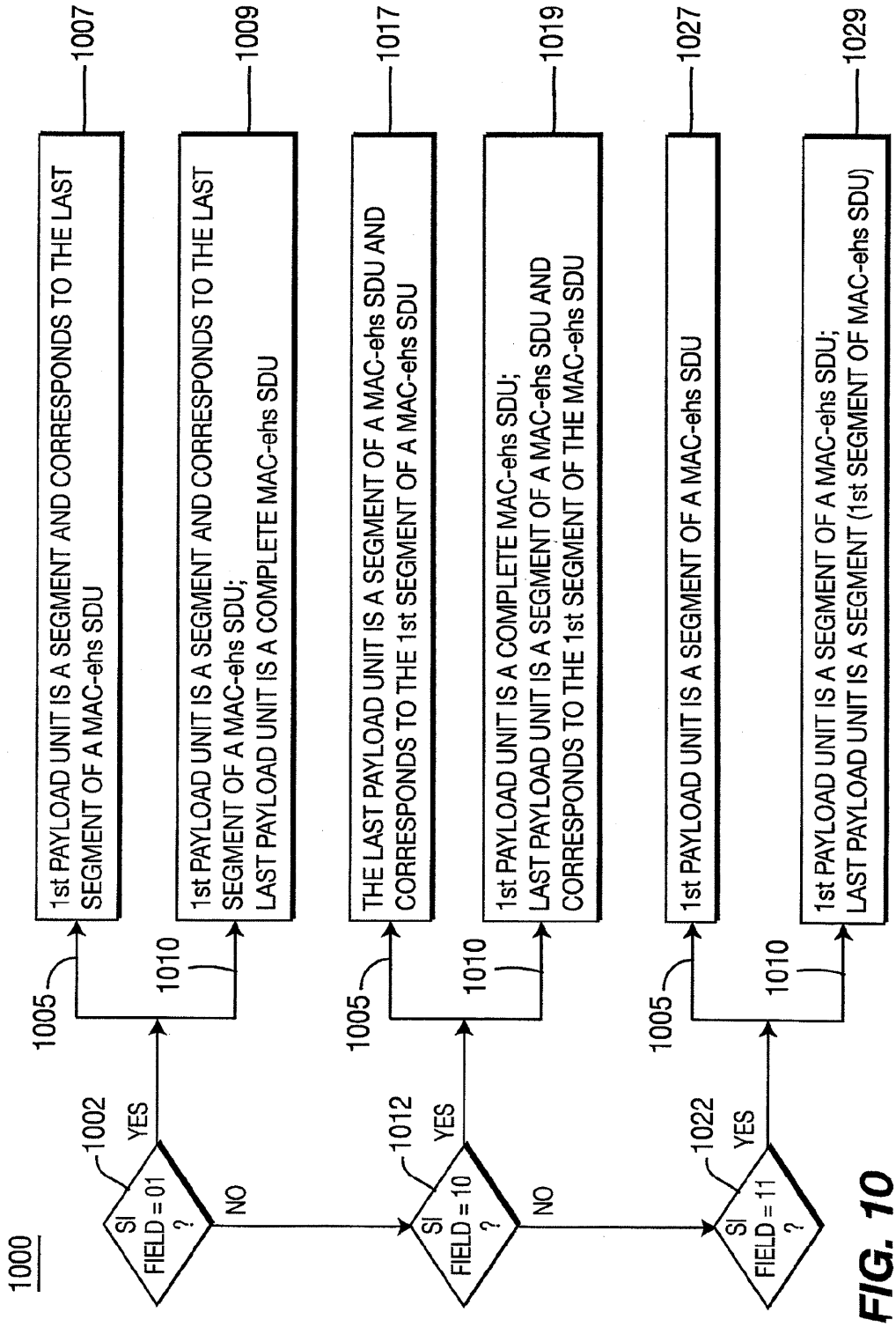

1000
SI FIELD = 01 ?
1002
YES
NO
1005
1010
1st PAYLOAD UNIT IS A SEGMENT AND CORRESPONDS TO THE LAST SEGMENT OF A MAC-ehs SDU
1007
1st PAYLOAD UNIT IS A SEGMENT AND CORRESPONDS TO THE LAST SEGMENT OF A MAC-ehs SDU; LAST PAYLOAD UNIT IS A COMPLETE MAC-ehs SDU
1009
SI FIELD = 10 ?
1012
YES
NO
1005
1010
THE LAST PAYLOAD UNIT IS A SEGMENT OF A MAC-ehs SDU AND CORRESPONDS TO THE 1st SEGMENT OF A MAC-ehs SDU
1017
1st PAYLOAD UNIT IS A COMPLETE MAC-ehs SDU; LAST PAYLOAD UNIT IS A SEGMENT OF A MAC-ehs SDU AND CORRESPONDS TO THE 1st SEGMENT OF THE MAC-ehs SDU
1019
SI FIELD = 11 ?
1022
YES
1005
1010
1st PAYLOAD UNIT IS A SEGMENT OF A MAC-ehs SDU
1027
1st PAYLOAD UNIT IS A SEGMENT OF A MAC-ehs SDU; LAST PAYLOAD UNIT IS A SEGMENT (1st SEGMENT OF MAC-ehs SDU)
1029

FIG. 10

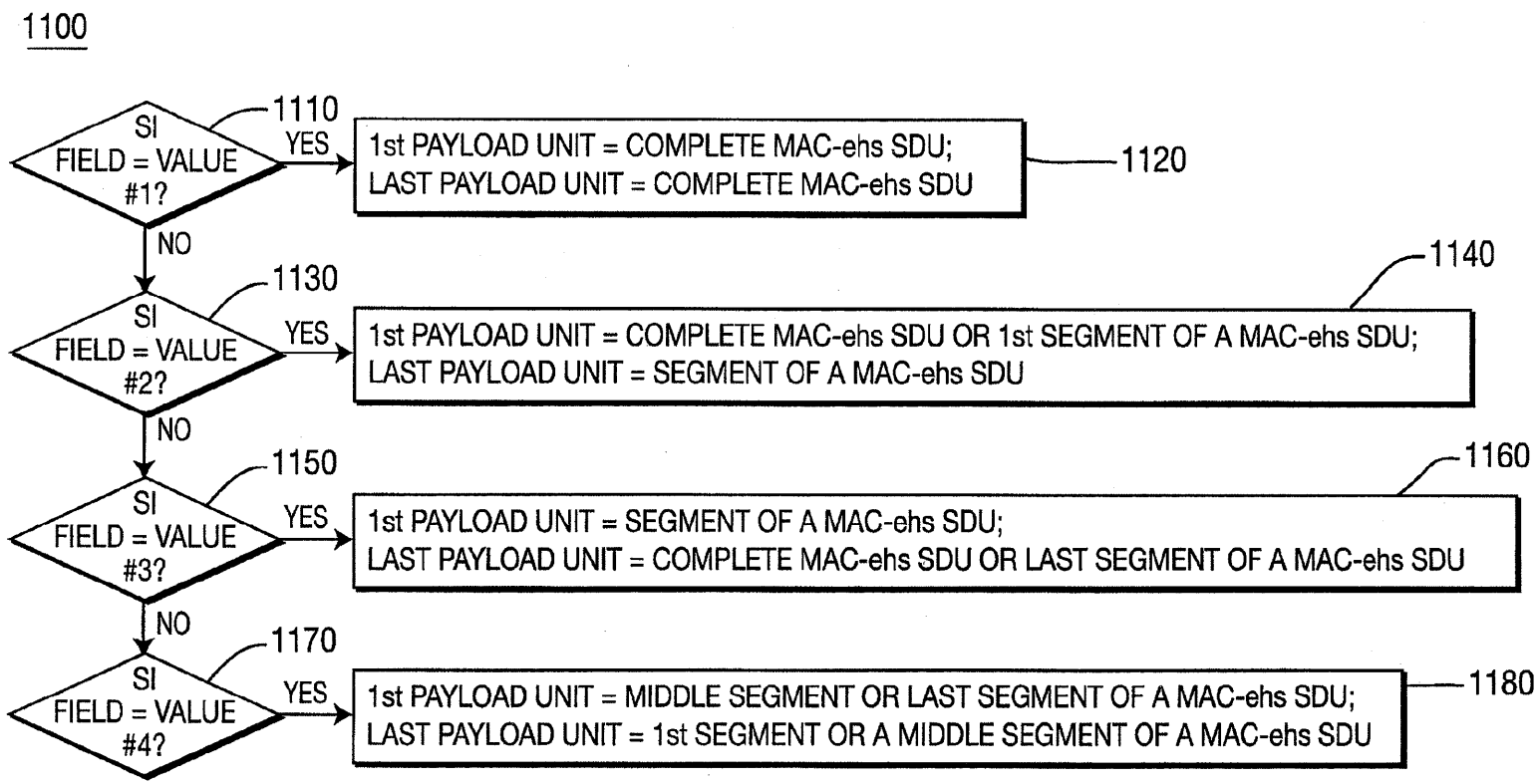

1100
SI FIELD = VALUE #1?
1110
YES
1st PAYLOAD UNIT = COMPLETE MAC-ehs SDU;
LAST PAYLOAD UNIT = COMPLETE MAC-ehs SDU
1120
NO
SI FIELD = VALUE #2?
1130
YES
1st PAYLOAD UNIT = COMPLETE MAC-ehs SDU OR 1st SEGMENT OF A MAC-ehs SDU;
LAST PAYLOAD UNIT = SEGMENT OF A MAC-ehs SDU
1140
NO
SI FIELD = VALUE #3?
1150
YES
1st PAYLOAD UNIT = SEGMENT OF A MAC-ehs SDU;
LAST PAYLOAD UNIT = COMPLETE MAC-ehs SDU OR LAST SEGMENT OF A MAC-ehs SDU
1160
NO
SI FIELD = VALUE #4?
1170
YES
1st PAYLOAD UNIT = MIDDLE SEGMENT OR LAST SEGMENT OF A MAC-ehs SDU;
LAST PAYLOAD UNIT = 1st SEGMENT OR A MIDDLE SEGMENT OF A MAC-ehs SDU
1180

FIG. 11

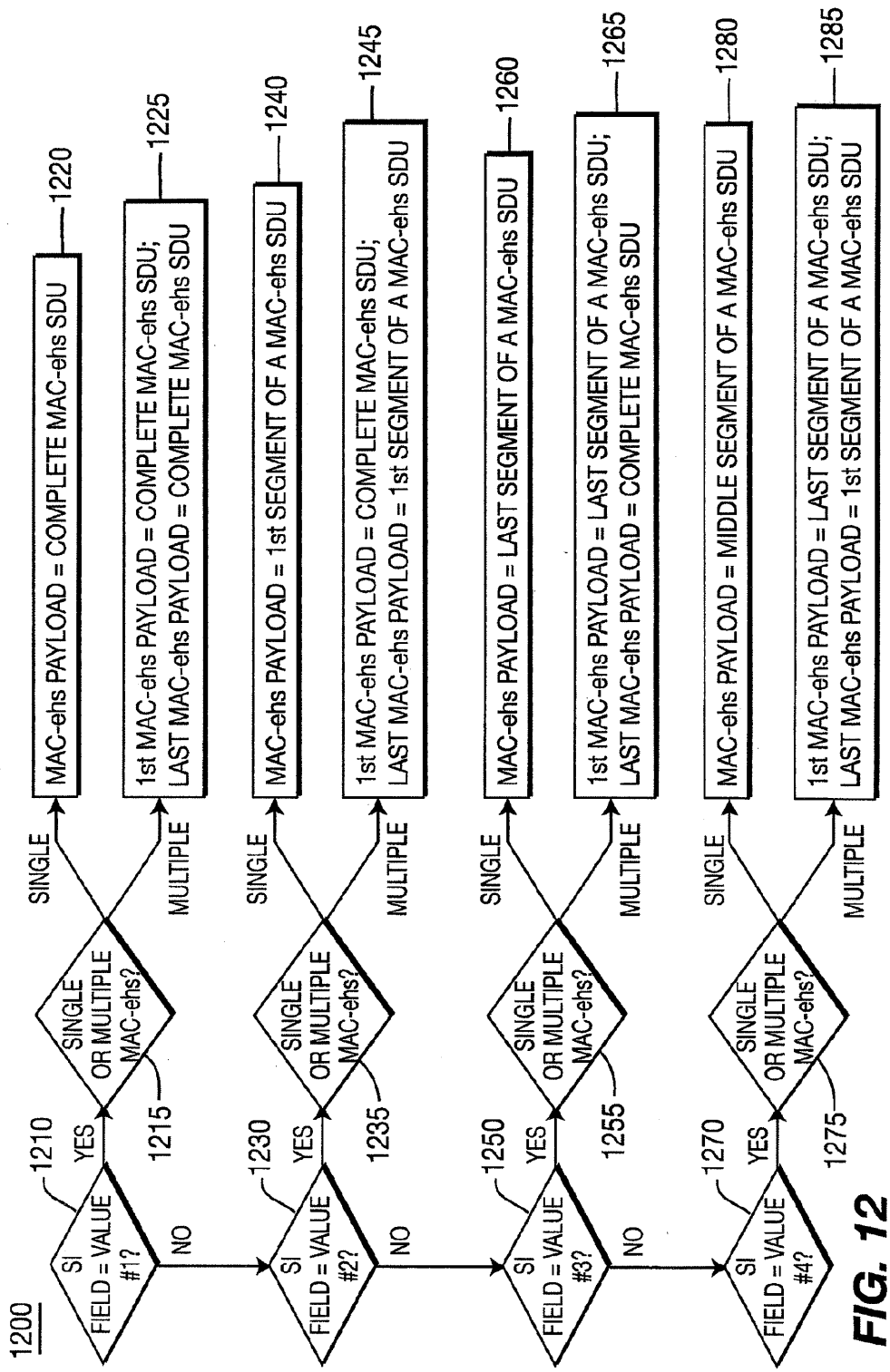

1200
SI FIELD = VALUE #1?
1210
YES
SINGLE OR MULTIPLE MAC-ehs?
1215
SINGLE
MAC-ehs PAYLOAD = COMPLETE MAC-ehs SDU
1220
MULTIPLE
1st MAC-ehs PAYLOAD = COMPLETE MAC-ehs SDU; LAST MAC-ehs PAYLOAD = COMPLETE MAC-ehs SDU
1225
NO
SI FIELD = VALUE #2?
1230
YES
SINGLE OR MULTIPLE MAC-ehs?
1235
SINGLE
MAC-ehs PAYLOAD = 1st SEGMENT OF A MAC-ehs SDU
1240
MULTIPLE
1st MAC-ehs PAYLOAD = COMPLETE MAC-ehs SDU; LAST MAC-ehs PAYLOAD = 1st SEGMENT OF A MAC-ehs SDU
1245
NO
SI FIELD = VALUE #3?
1250
YES
SINGLE OR MULTIPLE MAC-ehs?
1255
SINGLE
MAC-ehs PAYLOAD = LAST SEGMENT OF A MAC-ehs SDU
1260
MULTIPLE
1st MAC-ehs PAYLOAD = LAST SEGMENT OF A MAC-ehs SDU; LAST MAC-ehs PAYLOAD = COMPLETE MAC-ehs SDU
1265
NO
SI FIELD = VALUE #4?
1270
YES
SINGLE OR MULTIPLE MAC-ehs?
1275
SINGLE
MAC-ehs PAYLOAD = MIDDLE SEGMENT OF A MAC-ehs SDU
1280
MULTIPLE
1st MAC-ehs PAYLOAD = LAST SEGMENT OF A MAC-ehs SDU; LAST MAC-ehs PAYLOAD = 1st SEGMENT OF A MAC-ehs SDU
1285

FIG. 12

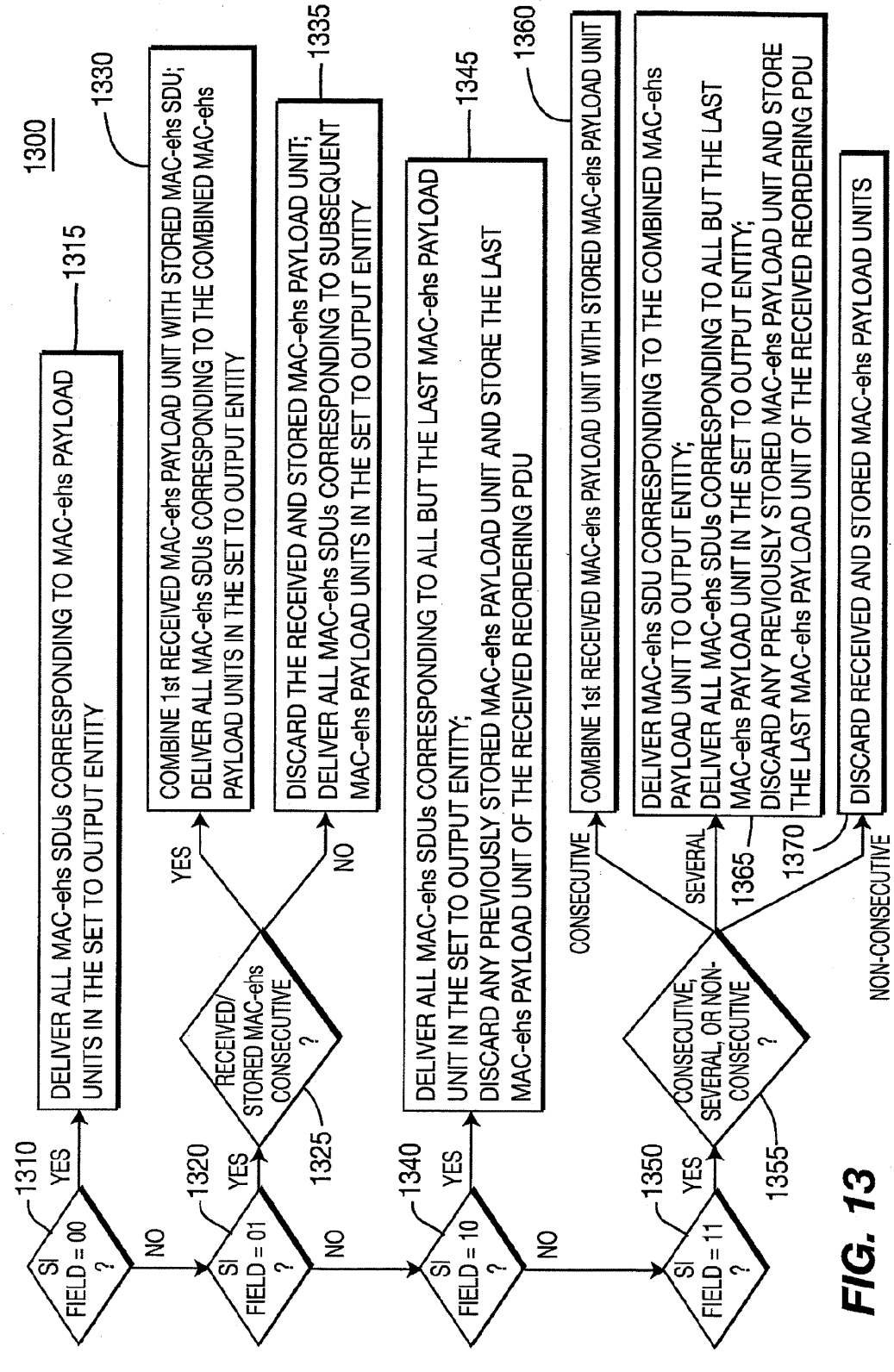

1300
SI FIELD = 00 ?
1310
YES
DELIVER ALL MAC-ehs SDUs CORRESPONDING TO MAC-ehs PAYLOAD UNITS IN THE SET TO OUTPUT ENTITY
1315
NO
SI FIELD = 01 ?
1320
YES
RECEIVED/ STORED MAC-ehs CONSECUTIVE ?
1325
YES
COMBINE 1st RECEIVED MAC-ehs PAYLOAD UNIT WITH STORED MAC-ehs SDU; DELIVER ALL MAC-ehs SDUs CORRESPONDING TO THE COMBINED MAC-ehs PAYLOAD UNITS IN THE SET TO OUTPUT ENTITY
1330
NO
DISCARD THE RECEIVED AND STORED MAC-ehs PAYLOAD UNIT; DELIVER ALL MAC-ehs SDUs CORRESPONDING TO SUBSEQUENT MAC-ehs PAYLOAD UNITS IN THE SET TO OUTPUT ENTITY
1335
NO
SI FIELD = 10 ?
1340
YES
DELIVER ALL MAC-ehs SDUs CORRESPONDING TO ALL BUT THE LAST MAC-ehs PAYLOAD UNIT IN THE SET TO OUTPUT ENTITY; DISCARD ANY PREVIOUSLY STORED MAC-ehs PAYLOAD UNIT AND STORE THE LAST MAC-ehs PAYLOAD UNIT OF THE RECEIVED REORDERING PDU
1345
CONSECUTIVE
COMBINE 1st RECEIVED MAC-ehs PAYLOAD UNIT WITH STORED MAC-ehs PAYLOAD UNIT
1360
NO
SI FIELD = 11 ?
1350
YES
CONSECUTIVE, SEVERAL, OR NON-CONSECUTIVE ?
1355
SEVERAL
DELIVER MAC-ehs SDU CORRESPONDING TO THE COMBINED MAC-ehs PAYLOAD UNIT TO OUTPUT ENTITY; DELIVER ALL MAC-ehs SDUs CORRESPONDING TO ALL BUT THE LAST MAC-ehs PAYLOAD UNIT IN THE SET TO OUTPUT ENTITY; DISCARD ANY PREVIOUSLY STORED MAC-ehs PAYLOAD UNIT AND STORE THE LAST MAC-ehs PAYLOAD UNIT OF THE RECEIVED REORDERING PDU
1365
1370
NON-CONSECUTIVE
DISCARD RECEIVED AND STORED MAC-ehs PAYLOAD UNITS

FIG. 13

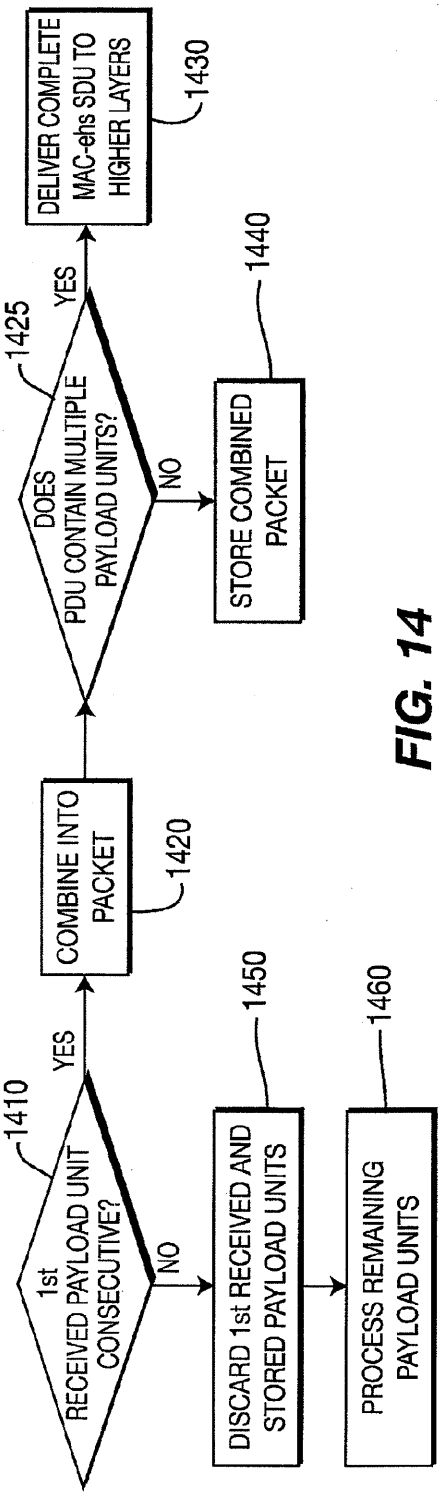

1410
1st RECEIVED PAYLOAD UNIT CONSECUTIVE?
YES
NO
COMBINE INTO PACKET
1420
DISCARD 1st RECEIVED AND STORED PAYLOAD UNITS
1450
PROCESS REMAINING PAYLOAD UNITS
1460
1425
DOES PDU CONTAIN MULTIPLE PAYLOAD UNITS?
YES
NO
DELIVER COMPLETE MAC-ehs SDU TO HIGHER LAYERS
1430
STORE COMBINED PACKET
1440

FIG. 14

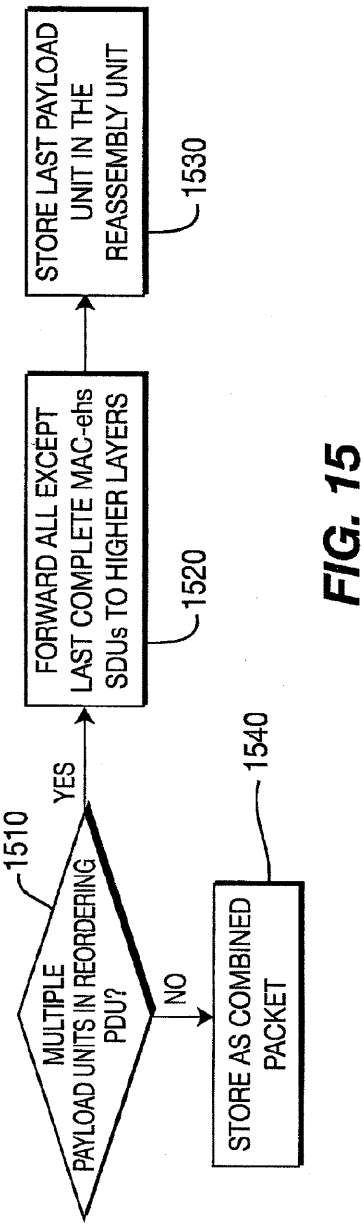

1510
MULTIPLE PAYLOAD UNITS IN REORDERING PDU?
YES
NO
FORWARD ALL EXCEPT LAST COMPLETE MAC-ehs SDUs TO HIGHER LAYERS
1520
STORE AS COMBINED PACKET
1540
STORE LAST PAYLOAD UNIT IN THE REASSEMBLY UNIT
1530

FIG. 15

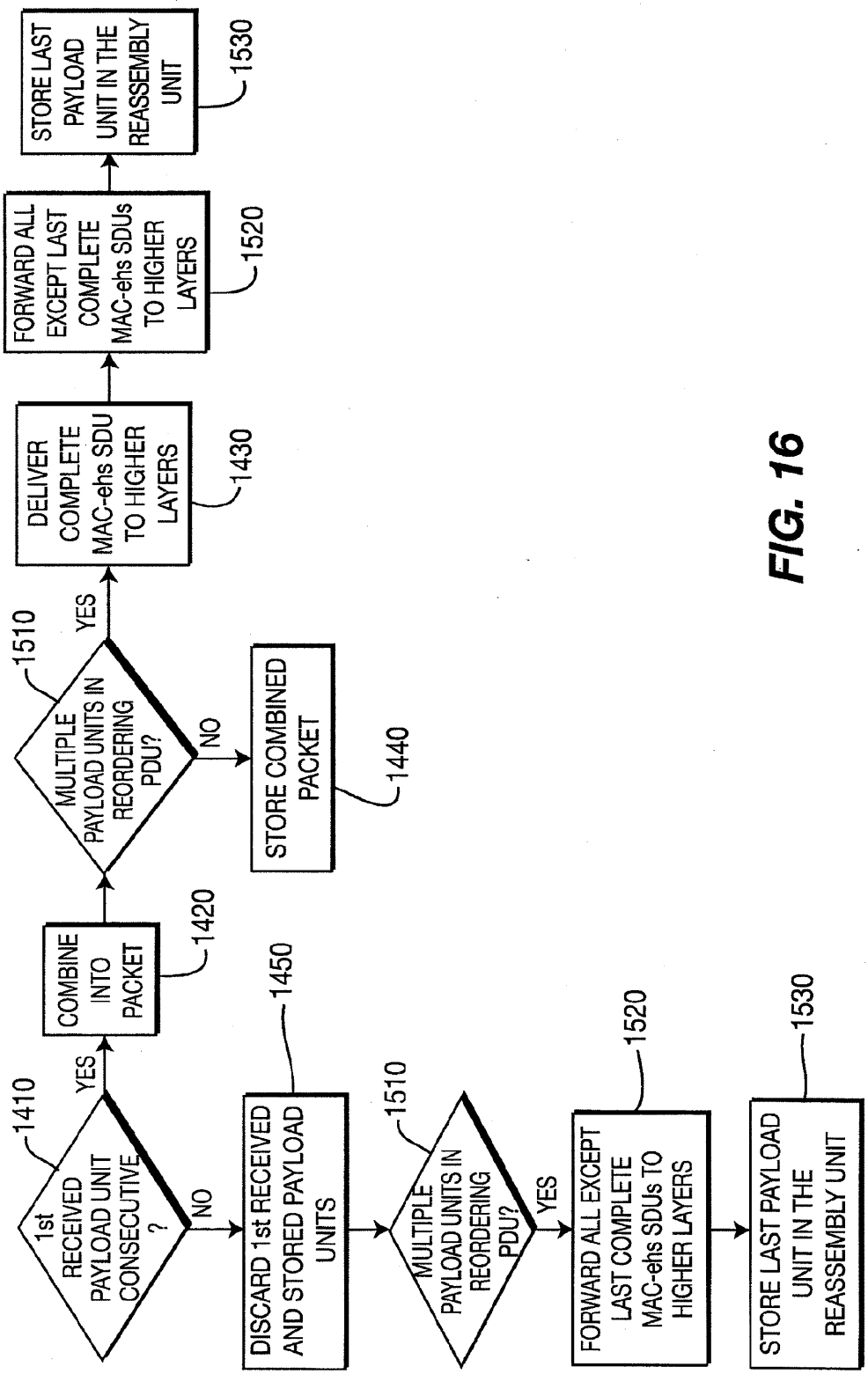

1st RECEIVED PAYLOAD UNIT CONSECUTIVE ?
1410
YES
NO
COMBINE INTO PACKET
1420
DISCARD 1st RECEIVED AND STORED PAYLOAD UNITS
1450
MULTIPLE PAYLOAD UNITS IN REORDERING PDU?
1510
YES
NO
DELIVER COMPLETE MAC-ehs SDU TO HIGHER LAYERS
1430
STORE COMBINED PACKET
1440
FORWARD ALL EXCEPT LAST COMPLETE MAC-ehs SDUs TO HIGHER LAYERS
1520
STORE LAST PAYLOAD UNIT IN THE REASSEMBLY UNIT
1530

FIG. 16

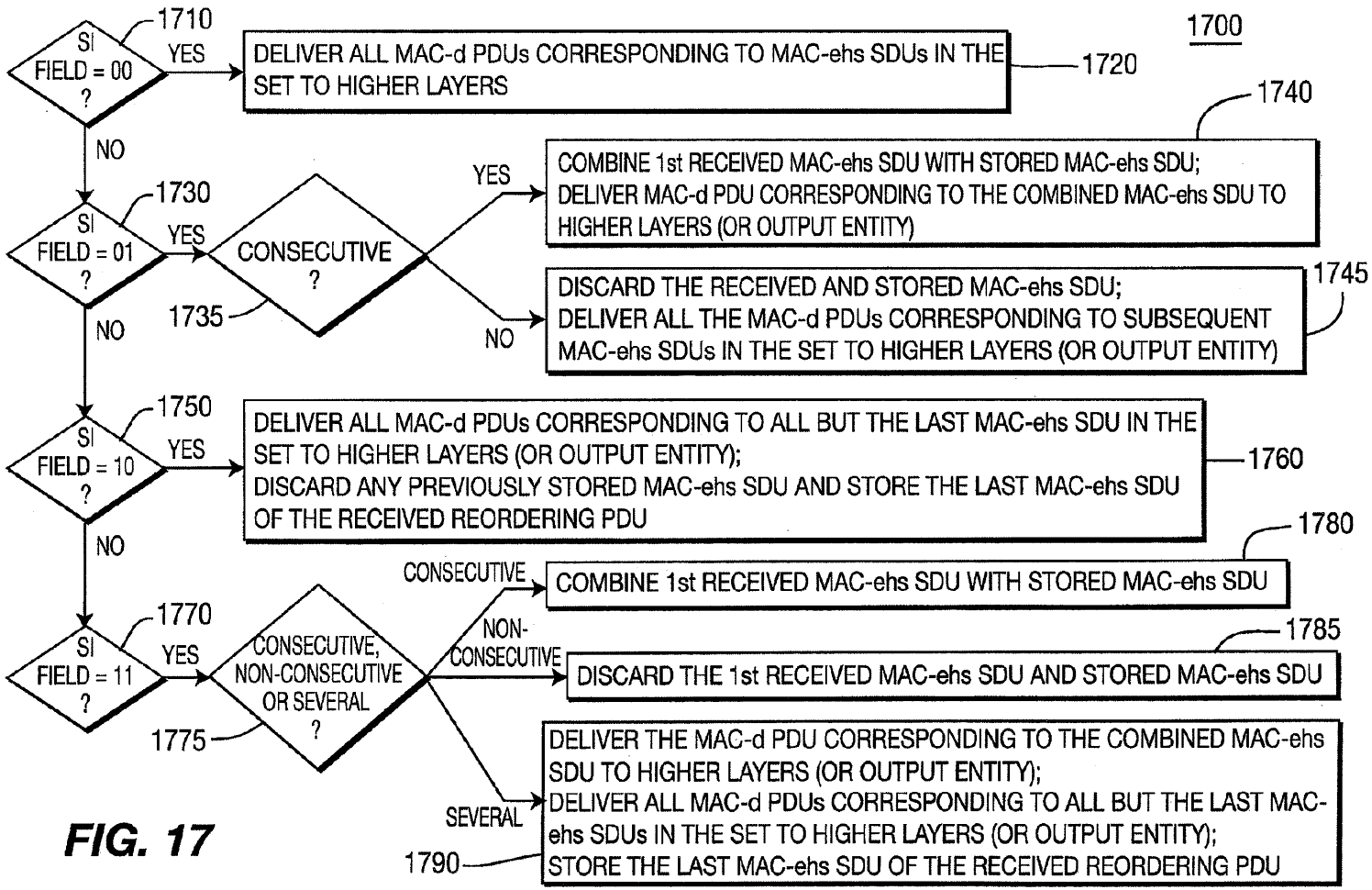

1700
1710
SI FIELD = 00 ?
YES
DELIVER ALL MAC-d PDUs CORRESPONDING TO MAC-ehs SDUs IN THE SET TO HIGHER LAYERS
1720
NO
1730
SI FIELD = 01 ?
YES
CONSECUTIVE ?
1735
YES
COMBINE 1st RECEIVED MAC-ehs SDU WITH STORED MAC-ehs SDU; DELIVER MAC-d PDU CORRESPONDING TO THE COMBINED MAC-ehs SDU TO HIGHER LAYERS (OR OUTPUT ENTITY)
1740
NO
DISCARD THE RECEIVED AND STORED MAC-ehs SDU; DELIVER ALL THE MAC-d PDUs CORRESPONDING TO SUBSEQUENT MAC-ehs SDUs IN THE SET TO HIGHER LAYERS (OR OUTPUT ENTITY)
1745
NO
1750
SI FIELD = 10 ?
YES
DELIVER ALL MAC-d PDUs CORRESPONDING TO ALL BUT THE LAST MAC-ehs SDU IN THE SET TO HIGHER LAYERS (OR OUTPUT ENTITY); DISCARD ANY PREVIOUSLY STORED MAC-ehs SDU AND STORE THE LAST MAC-ehs SDU OF THE RECEIVED REORDERING PDU
1760
NO
1770
SI FIELD = 11 ?
YES
CONSECUTIVE, NON-CONSECUTIVE OR SEVERAL ?
1775
CONSECUTIVE
COMBINE 1st RECEIVED MAC-ehs SDU WITH STORED MAC-ehs SDU
1780
NON-CONSECUTIVE
DISCARD THE 1st RECEIVED MAC-ehs SDU AND STORED MAC-ehs SDU
1785
SEVERAL
DELIVER THE MAC-d PDU CORRESPONDING TO THE COMBINED MAC-ehs SDU TO HIGHER LAYERS (OR OUTPUT ENTITY); DELIVER ALL MAC-d PDUs CORRESPONDING TO ALL BUT THE LAST MAC-ehs SDUs IN THE SET TO HIGHER LAYERS (OR OUTPUT ENTITY); STORE THE LAST MAC-ehs SDU OF THE RECEIVED REORDERING PDU
1790

FIG. 17