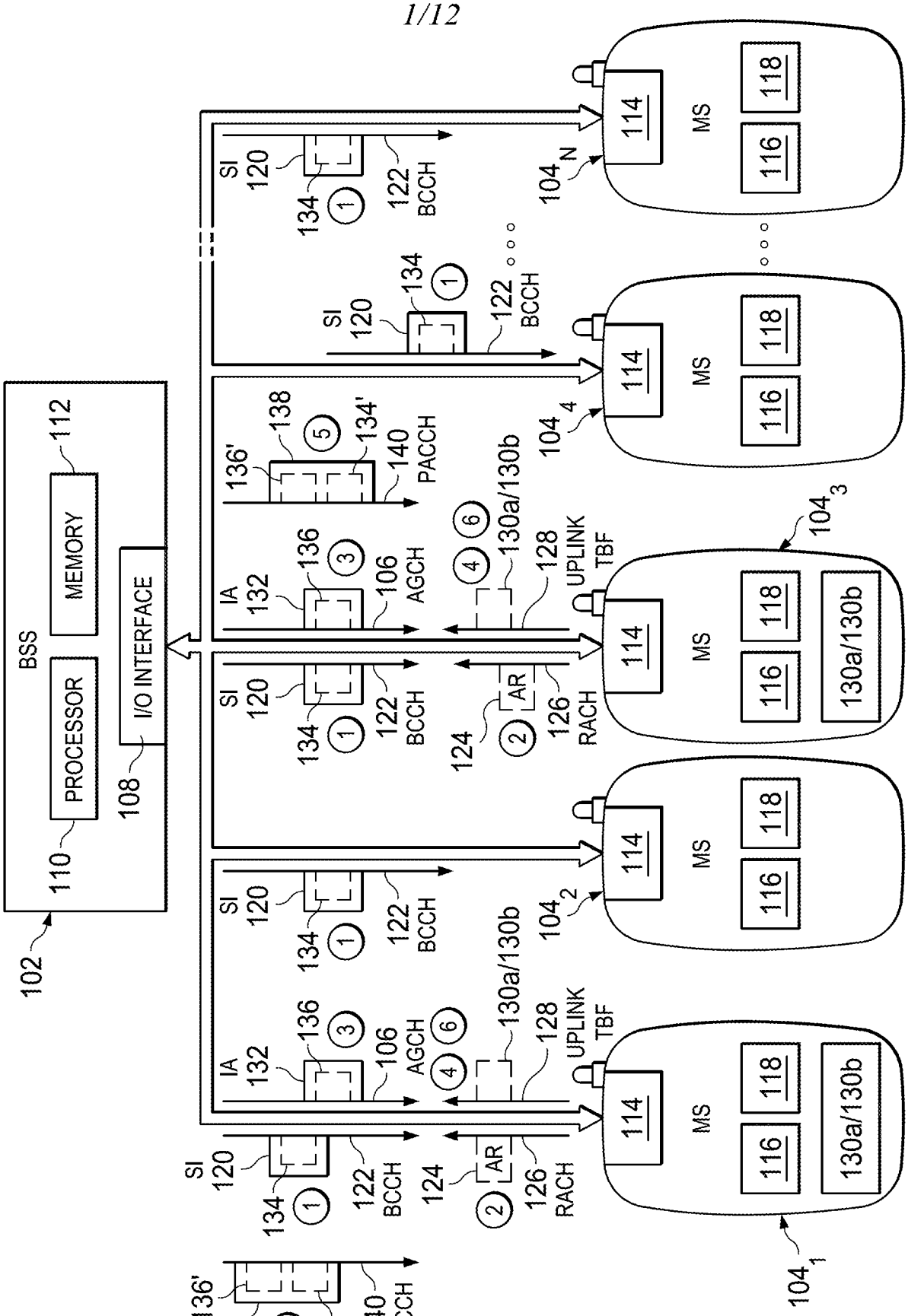
FIG. 1A


BSS
PROCESSOR
MEMORY
I/O INTERFACE
102
110
108
112
MS
114
116
118
130a/130b
SI
120
BCCH
122
134
PACCH
140
136'
138
134'
IA
132
AGCH
106
136
UPLINK TBF
128
130a/130b
RACH
126
AR
124
104_1
104_2
104_3
104_4
104_N

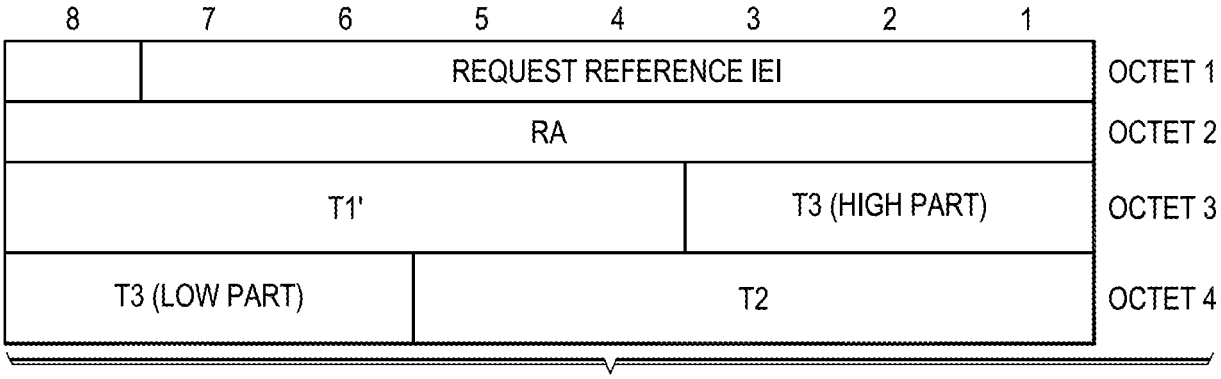


FIG. 1B

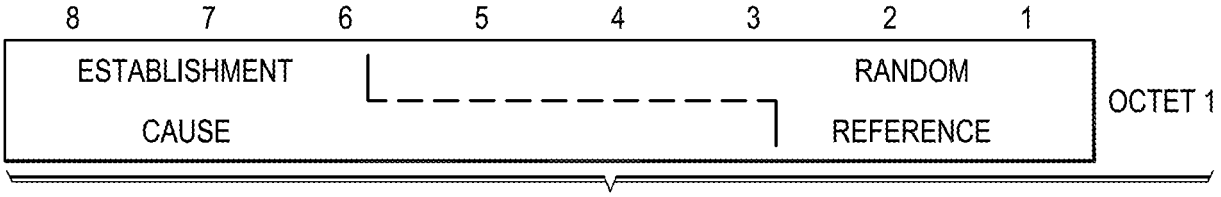


FIG. 1C

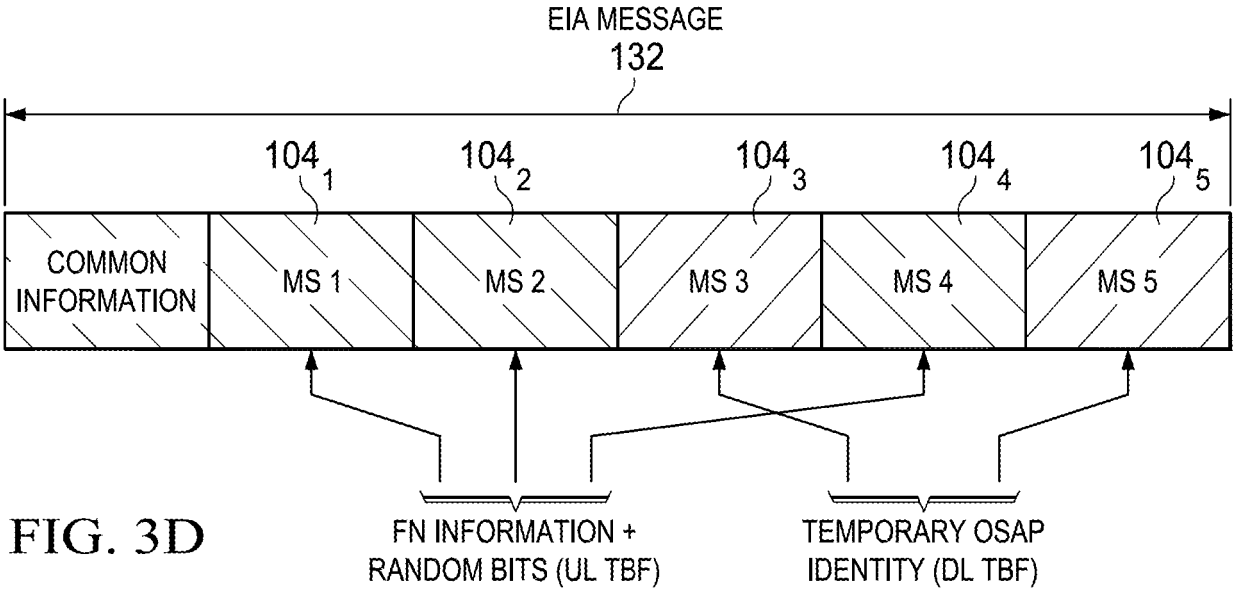


FIG. 3D

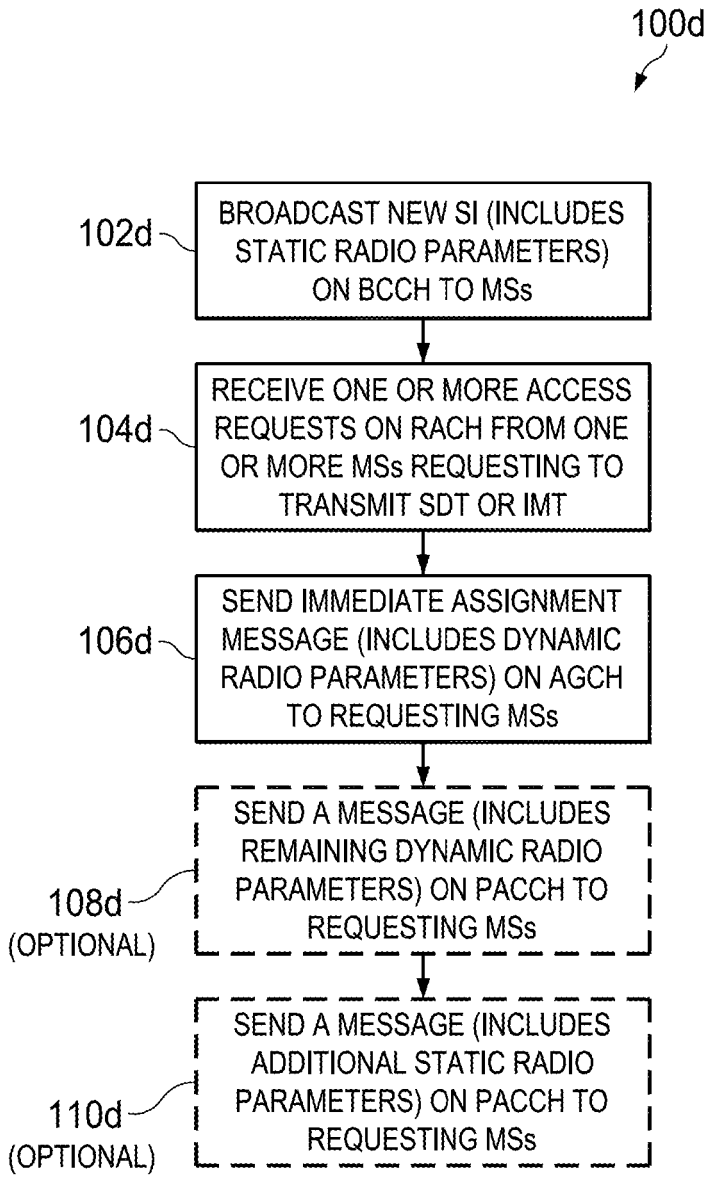

100d
102d
BROADCAST NEW SI (INCLUDES STATIC RADIO PARAMETERS) ON BCCH TO MSs
104d
RECEIVE ONE OR MORE ACCESS REQUESTS ON RACH FROM ONE OR MORE MSs REQUESTING TO TRANSMIT SDT OR IMT
106d
SEND IMMEDIATE ASSIGNMENT MESSAGE (INCLUDES DYNAMIC RADIO PARAMETERS) ON AGCH TO REQUESTING MSs
108d
(OPTIONAL)
SEND A MESSAGE (INCLUDES REMAINING DYNAMIC RADIO PARAMETERS) ON PACCH TO REQUESTING MSs
110d
(OPTIONAL)
SEND A MESSAGE (INCLUDES ADDITIONAL STATIC RADIO PARAMETERS) ON PACCH TO REQUESTING MSs

FIG. 1D

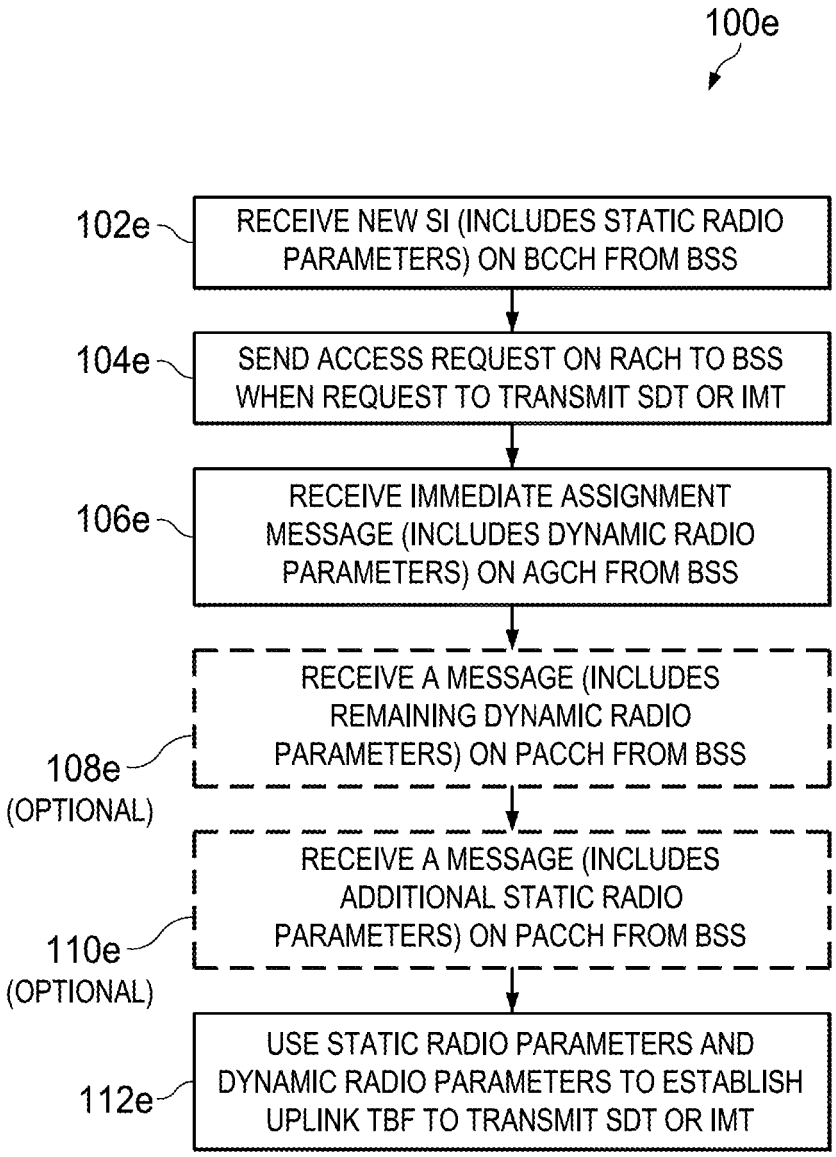
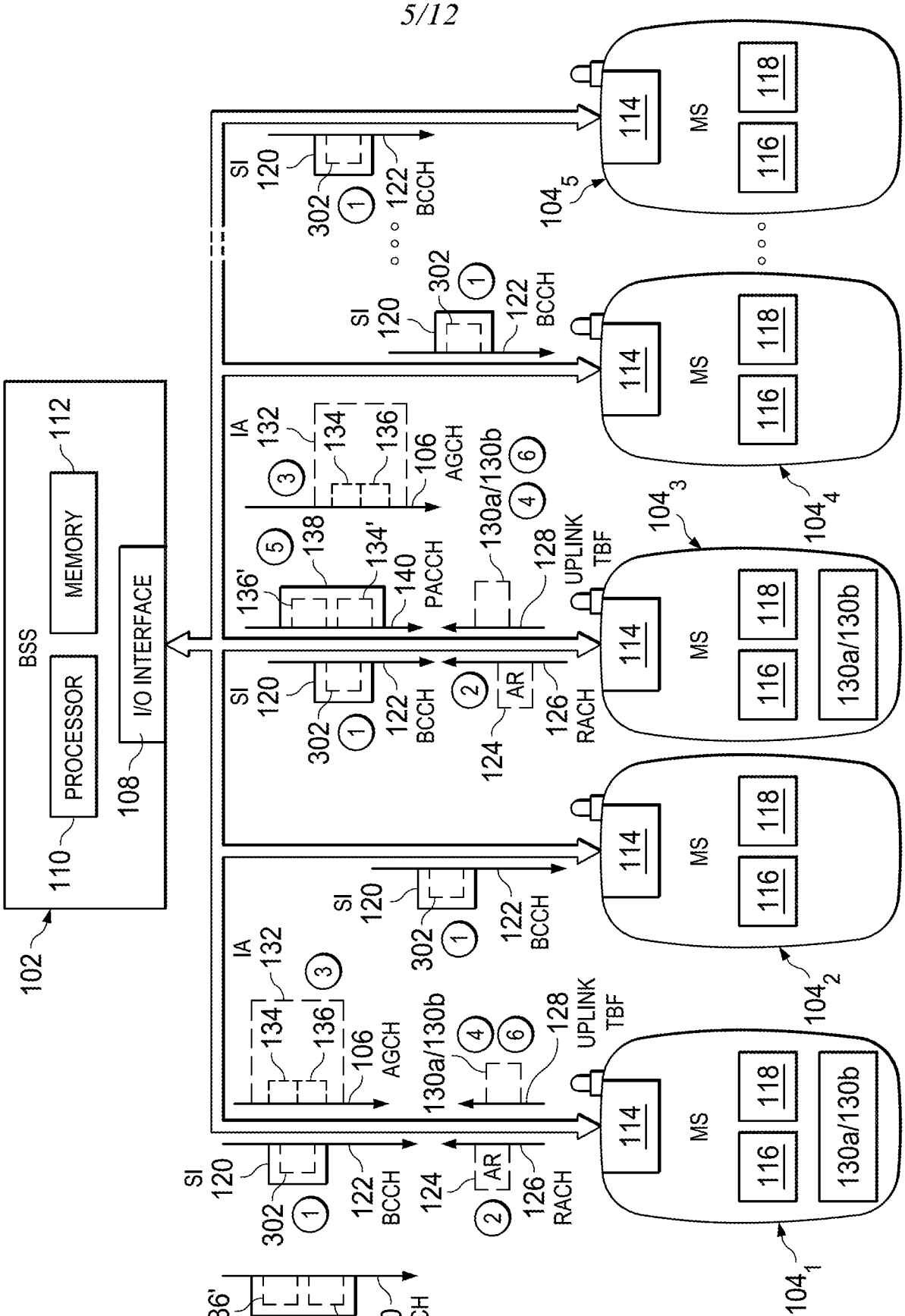

100e
102e
RECEIVE NEW SI (INCLUDES STATIC RADIO PARAMETERS) ON BCCH FROM BSS
104e
SEND ACCESS REQUEST ON RACH TO BSS WHEN REQUEST TO TRANSMIT SDT OR IMT
106e
RECEIVE IMMEDIATE ASSIGNMENT MESSAGE (INCLUDES DYNAMIC RADIO PARAMETERS) ON AGCH FROM BSS
108e
(OPTIONAL)
RECEIVE A MESSAGE (INCLUDES REMAINING DYNAMIC RADIO PARAMETERS) ON PACCH FROM BSS
110e
(OPTIONAL)
RECEIVE A MESSAGE (INCLUDES ADDITIONAL STATIC RADIO PARAMETERS) ON PACCH FROM BSS
112e
USE STATIC RADIO PARAMETERS AND DYNAMIC RADIO PARAMETERS TO ESTABLISH UPLINK TBF TO TRANSMIT SDT OR IMT

FIG. 1E

FIG. 2A


BSS
MEMORY
112
PROCESSOR
110
I/O INTERFACE
108
102
SI
120
302
BCCH
122
IA
132
134
136
106
AGCH
130a/130b
PACCH
140
134'
136'
138
UPLINK TBF
128
RACH
126
AR
124
MS
114
116
118
130a/130b
104 1
104 2
104 3
104 4
104 5

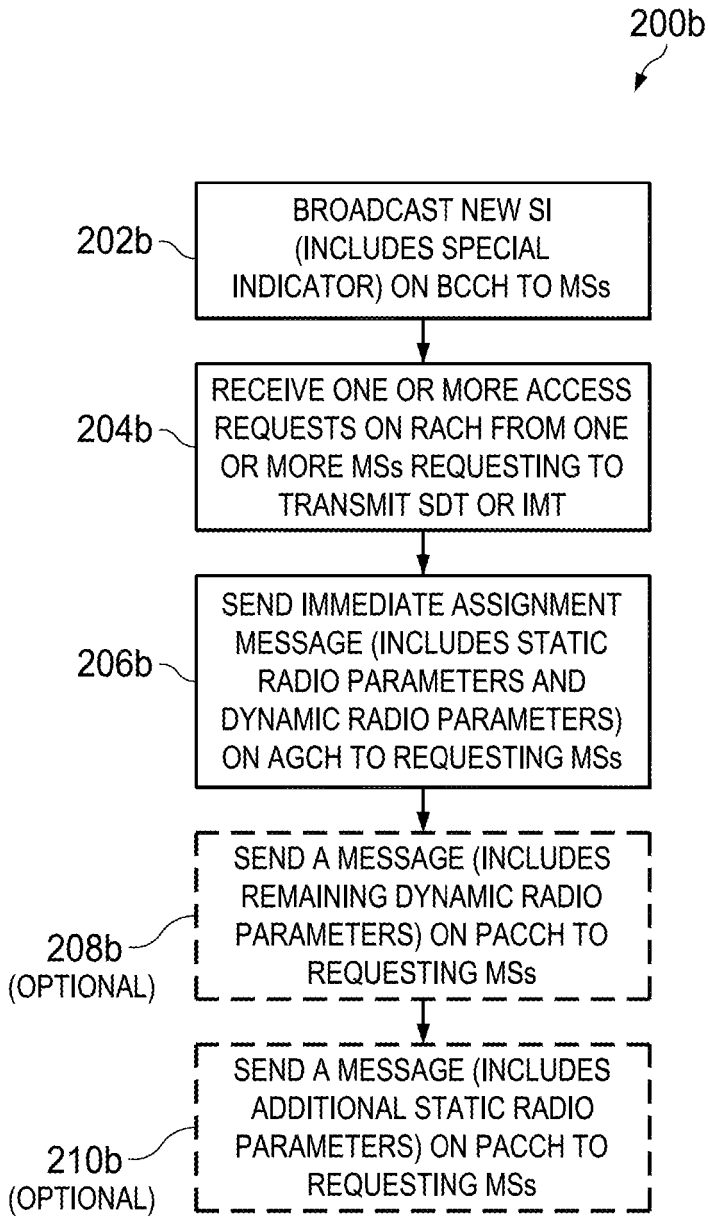

200b
202b
BROADCAST NEW SI (INCLUDES SPECIAL INDICATOR) ON BCCH TO MSs
204b
RECEIVE ONE OR MORE ACCESS REQUESTS ON RACH FROM ONE OR MORE MSs REQUESTING TO TRANSMIT SDT OR IMT
206b
SEND IMMEDIATE ASSIGNMENT MESSAGE (INCLUDES STATIC RADIO PARAMETERS AND DYNAMIC RADIO PARAMETERS) ON AGCH TO REQUESTING MSs
208b
(OPTIONAL)
SEND A MESSAGE (INCLUDES REMAINING DYNAMIC RADIO PARAMETERS) ON PACCH TO REQUESTING MSs
210b
(OPTIONAL)
SEND A MESSAGE (INCLUDES ADDITIONAL STATIC RADIO PARAMETERS) ON PACCH TO REQUESTING MSs

FIG. 2B

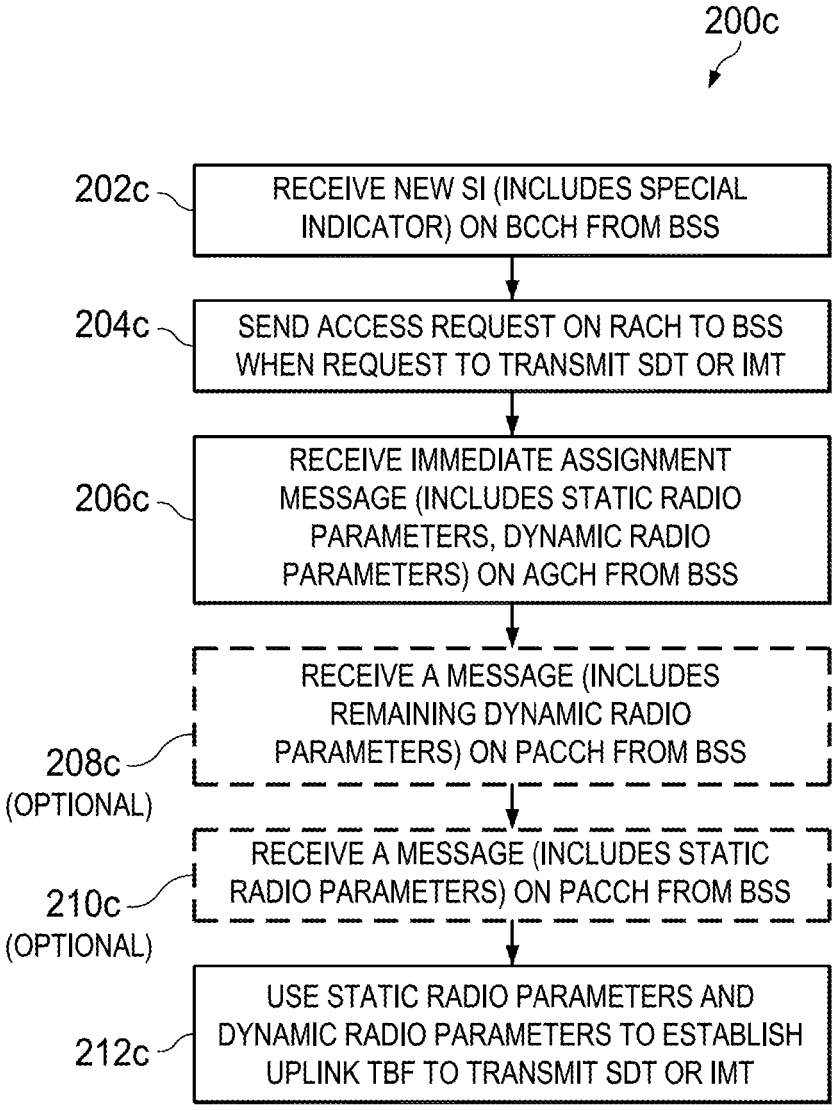

200c
202c
RECEIVE NEW SI (INCLUDES SPECIAL INDICATOR) ON BCCH FROM BSS
204c
SEND ACCESS REQUEST ON RACH TO BSS WHEN REQUEST TO TRANSMIT SDT OR IMT
206c
RECEIVE IMMEDIATE ASSIGNMENT MESSAGE (INCLUDES STATIC RADIO PARAMETERS, DYNAMIC RADIO PARAMETERS) ON AGCH FROM BSS
208c
(OPTIONAL)
RECEIVE A MESSAGE (INCLUDES REMAINING DYNAMIC RADIO PARAMETERS) ON PACCH FROM BSS
210c
(OPTIONAL)
RECEIVE A MESSAGE (INCLUDES STATIC RADIO PARAMETERS) ON PACCH FROM BSS
212c
USE STATIC RADIO PARAMETERS AND DYNAMIC RADIO PARAMETERS TO ESTABLISH UPLINK TBF TO TRANSMIT SDT OR IMT

FIG. 2C

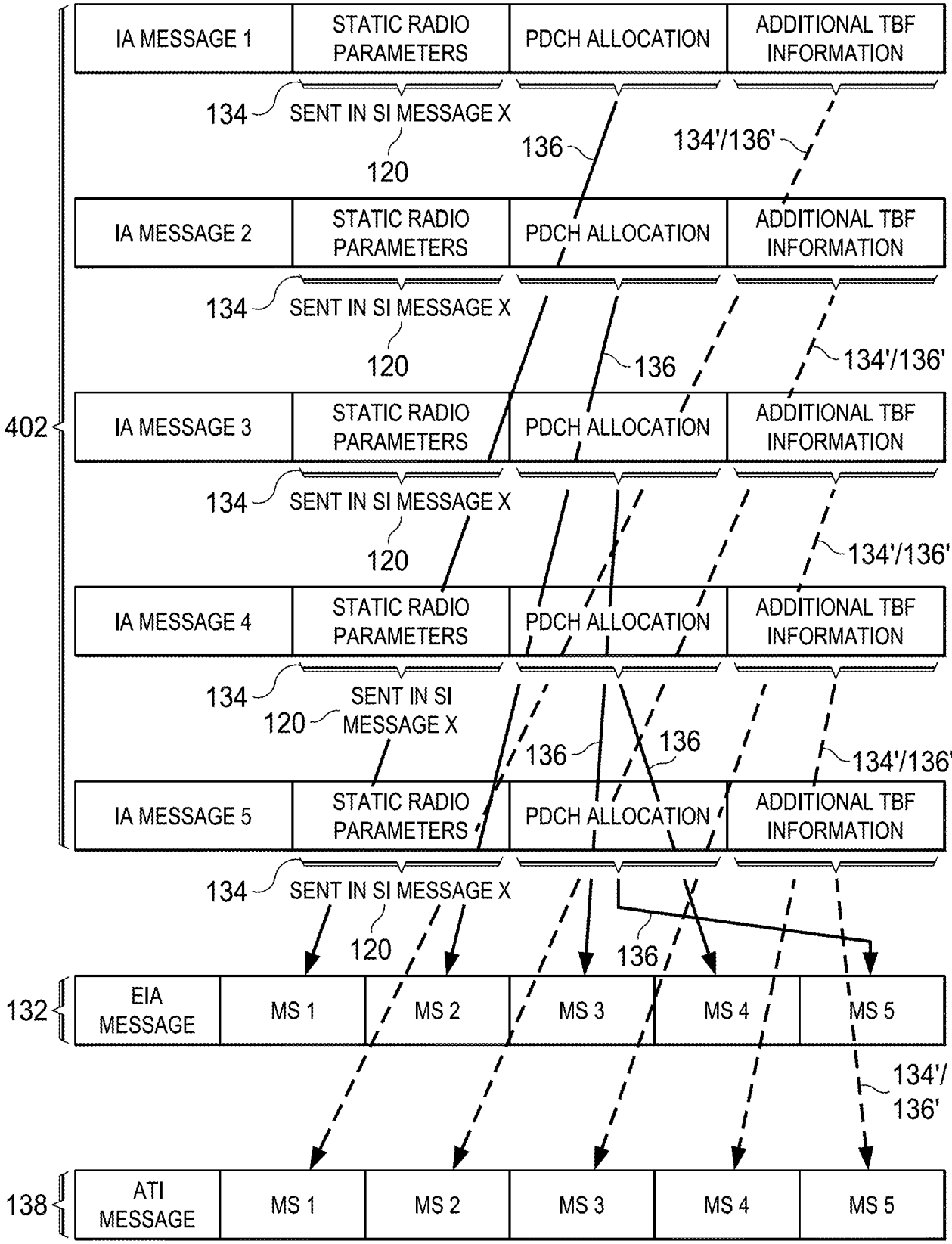

IA MESSAGE 1
STATIC RADIO PARAMETERS
PDCH ALLOCATION
ADDITIONAL TBF INFORMATION
134
SENT IN SI MESSAGE X
120
136
134'/136'
IA MESSAGE 2
IA MESSAGE 3
IA MESSAGE 4
IA MESSAGE 5
402
SENT IN SI MESSAGE X
EIA MESSAGE
MS 1
MS 2
MS 3
MS 4
MS 5
132
ATI MESSAGE
138

FIG. 3A

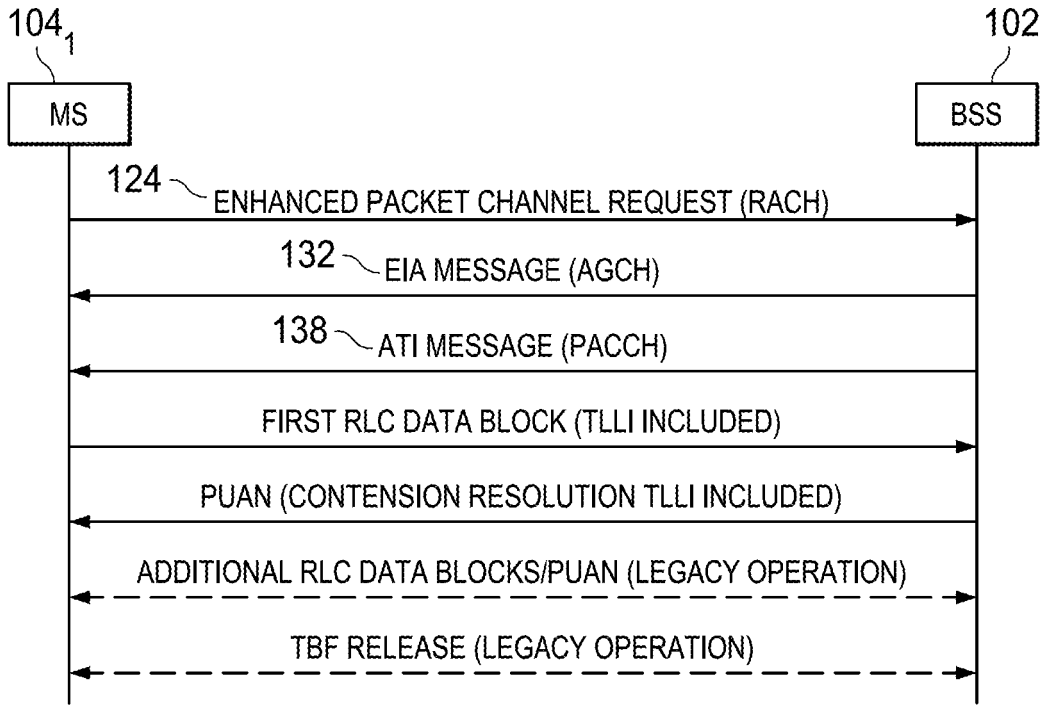

104 1
MS
102
BSS
124
ENHANCED PACKET CHANNEL REQUEST (RACH)
132
EIA MESSAGE (AGCH)
138
ATI MESSAGE (PACCH)
FIRST RLC DATA BLOCK (TLLI INCLUDED)
PUAN (CONTENSION RESOLUTION TLLI INCLUDED)
ADDITIONAL RLC DATA BLOCKS/PUAN (LEGACY OPERATION)
TBF RELEASE (LEGACY OPERATION)

FIG. 3B

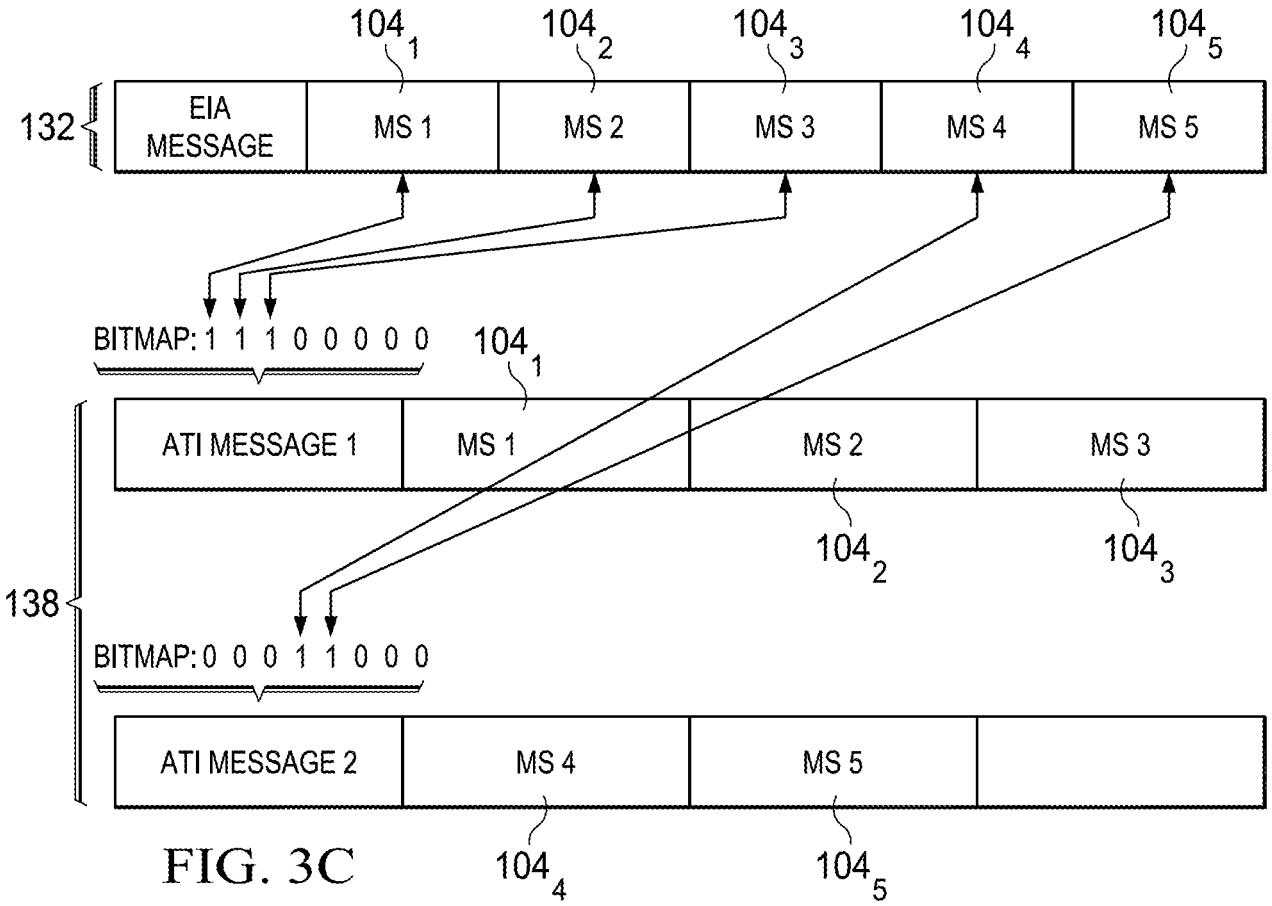

104 1
104 2
104 3
104 4
104 5
132
EIA MESSAGE
MS 1
MS 2
MS 3
MS 4
MS 5
BITMAP: 1 1 1 0 0 0 0 0
104 1
ATI MESSAGE 1
MS 1
MS 2
MS 3
104 2
104 3
138
BITMAP: 0 0 0 1 1 0 0 0
ATI MESSAGE 2
MS 4
MS 5
104 4
104 5

FIG. 3C

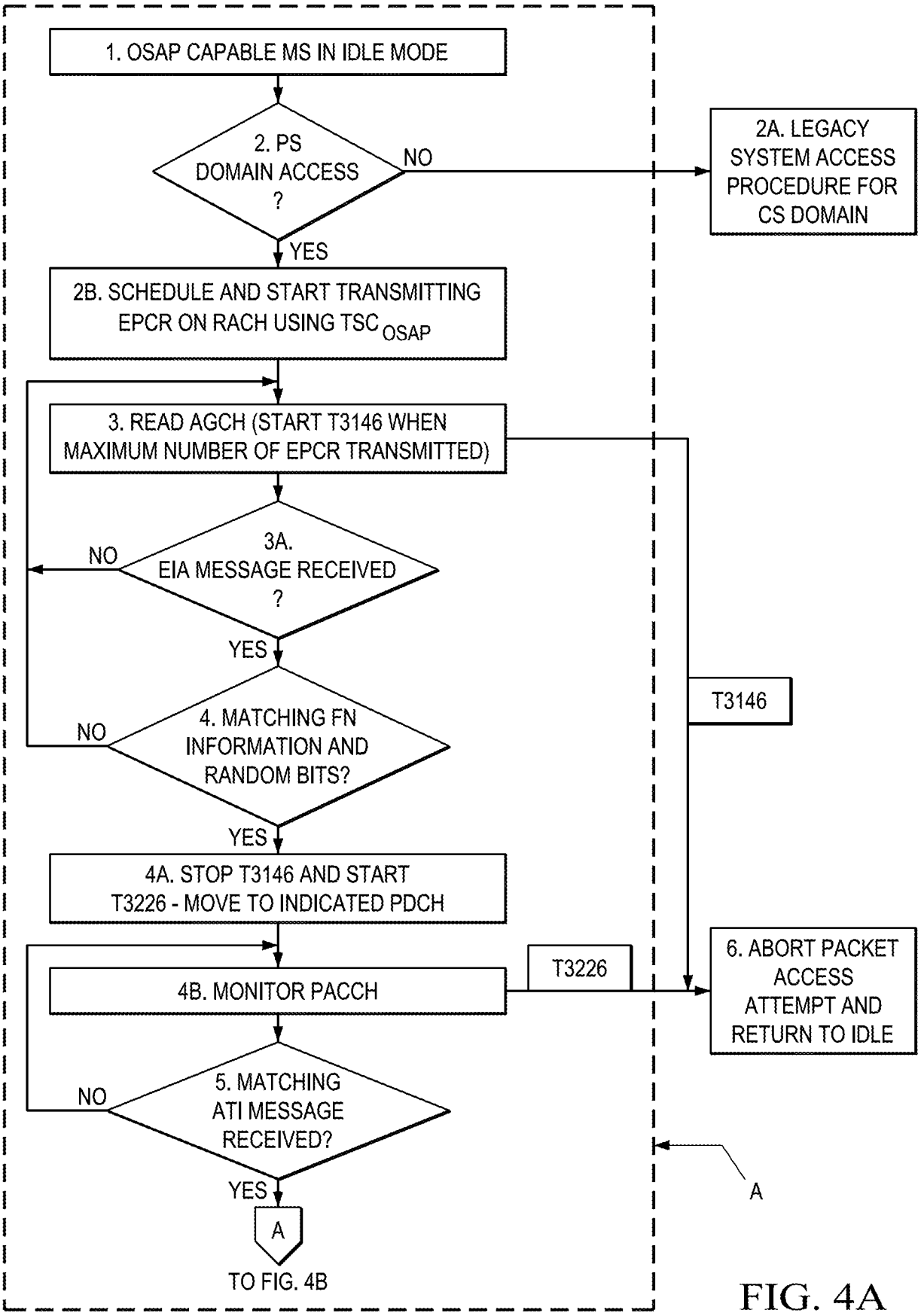

1. OSAP CAPABLE MS IN IDLE MODE
2. PS DOMAIN ACCESS ?
NO
2A. LEGACY SYSTEM ACCESS PROCEDURE FOR CS DOMAIN
YES
2B. SCHEDULE AND START TRANSMITTING EPCR ON RACH USING TSC OSAP
3. READ AGCH (START T3146 WHEN MAXIMUM NUMBER OF EPCR TRANSMITTED)
3A. EIA MESSAGE RECEIVED ?
NO
YES
4. MATCHING FN INFORMATION AND RANDOM BITS?
NO
YES
T3146
4A. STOP T3146 AND START T3226 - MOVE TO INDICATED PDCH
4B. MONITOR PACCH
T3226
6. ABORT PACKET ACCESS ATTEMPT AND RETURN TO IDLE
5. MATCHING ATI MESSAGE RECEIVED?
NO
YES
A
TO FIG. 4B
A

FIG. 4A

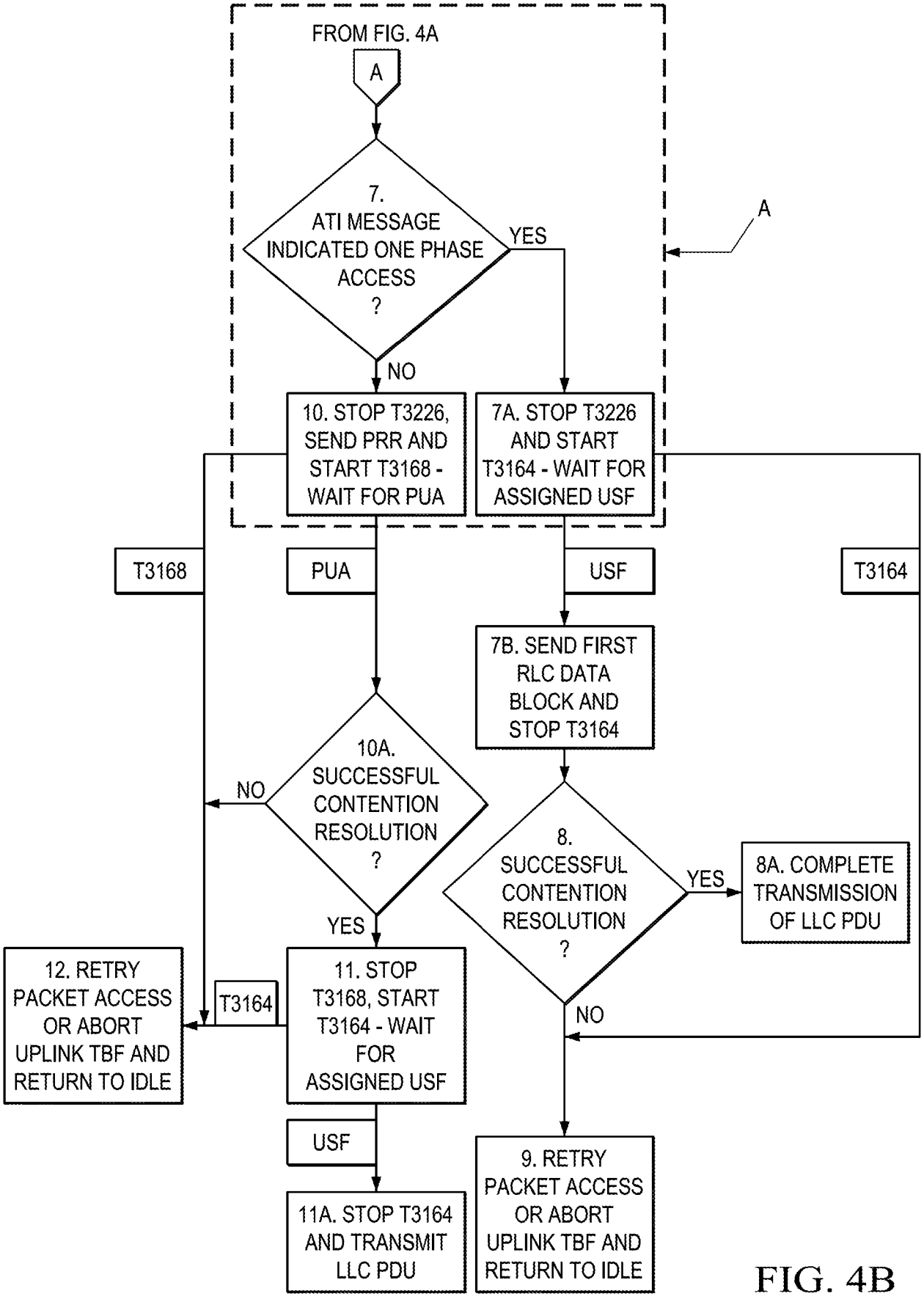

FROM FIG. 4A
A
7. ATI MESSAGE INDICATED ONE PHASE ACCESS ?
YES
NO
A
10. STOP T3226, SEND PRR AND START T3168 - WAIT FOR PUA
7A. STOP T3226 AND START T3164 - WAIT FOR ASSIGNED USF
T3168
PUA
USF
T3164
7B. SEND FIRST RLC DATA BLOCK AND STOP T3164
10A. SUCCESSFUL CONTENTION RESOLUTION ?
NO
YES
8. SUCCESSFUL CONTENTION RESOLUTION ?
YES
8A. COMPLETE TRANSMISSION OF LLC PDU
NO
12. RETRY PACKET ACCESS OR ABORT UPLINK TBF AND RETURN TO IDLE
T3164
11. STOP T3168, START T3164 - WAIT FOR ASSIGNED USF
USF
11A. STOP T3164 AND TRANSMIT LLC PDU
9. RETRY PACKET ACCESS OR ABORT UPLINK TBF AND RETURN TO IDLE

FIG. 4B

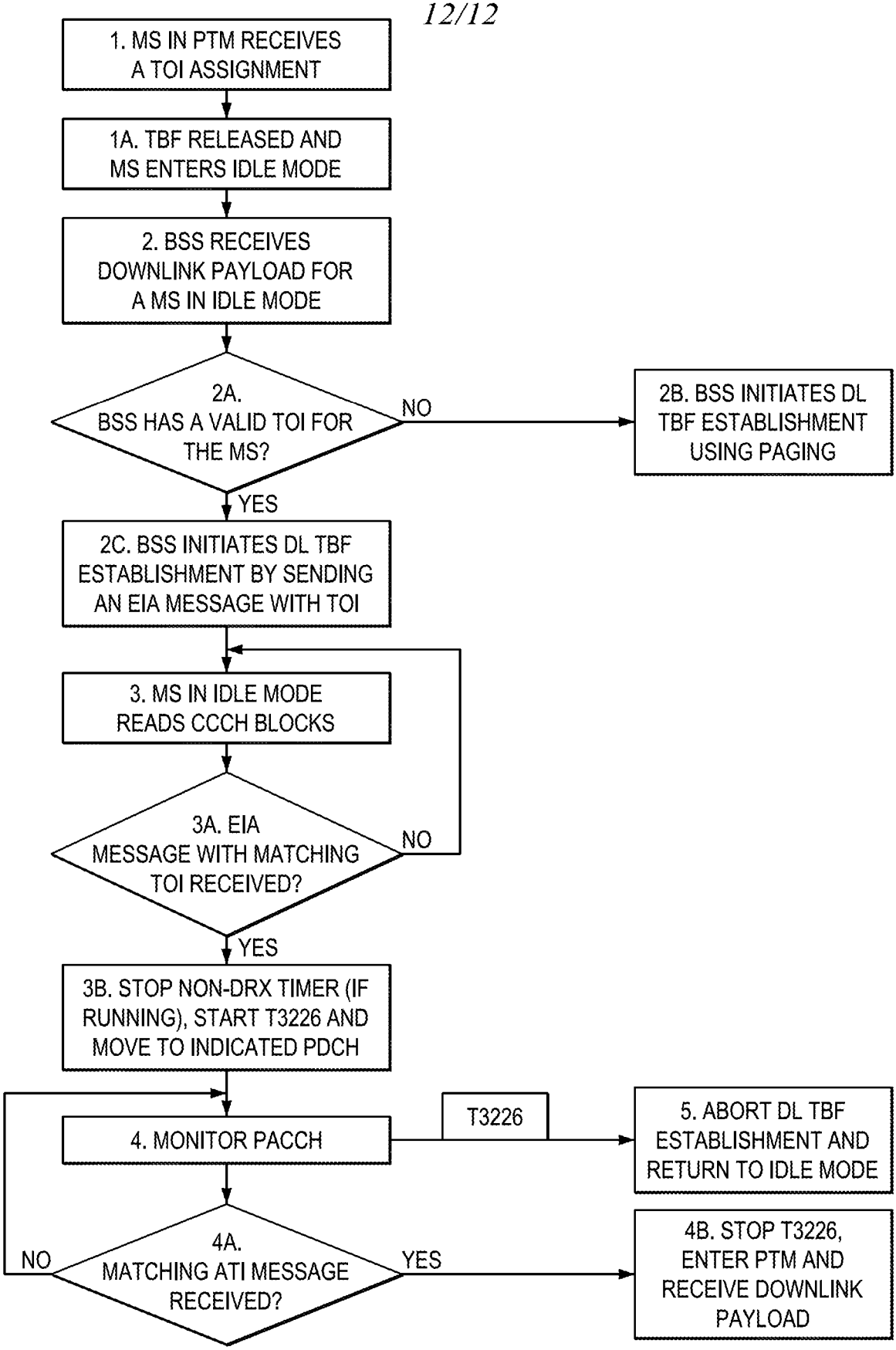

1. MS IN PTM RECEIVES A TOI ASSIGNMENT
1A. TBF RELEASED AND MS ENTERS IDLE MODE
2. BSS RECEIVES DOWNLINK PAYLOAD FOR A MS IN IDLE MODE
2A. BSS HAS A VALID TOI FOR THE MS?
NO
2B. BSS INITIATES DL TBF ESTABLISHMENT USING PAGING
YES
2C. BSS INITIATES DL TBF ESTABLISHMENT BY SENDING AN EIA MESSAGE WITH TOI
3. MS IN IDLE MODE READS CCCH BLOCKS
3A. EIA MESSAGE WITH MATCHING TOI RECEIVED?
NO
YES
3B. STOP NON-DRX TIMER (IF RUNNING), START T3226 AND MOVE TO INDICATED PDCH
4. MONITOR PACCH
T3226
5. ABORT DL TBF ESTABLISHMENT AND RETURN TO IDLE MODE
4A. MATCHING ATI MESSAGE RECEIVED?
NO
YES
4B. STOP T3226, ENTER PTM AND RECEIVE DOWNLINK PAYLOAD

FIG. 4C