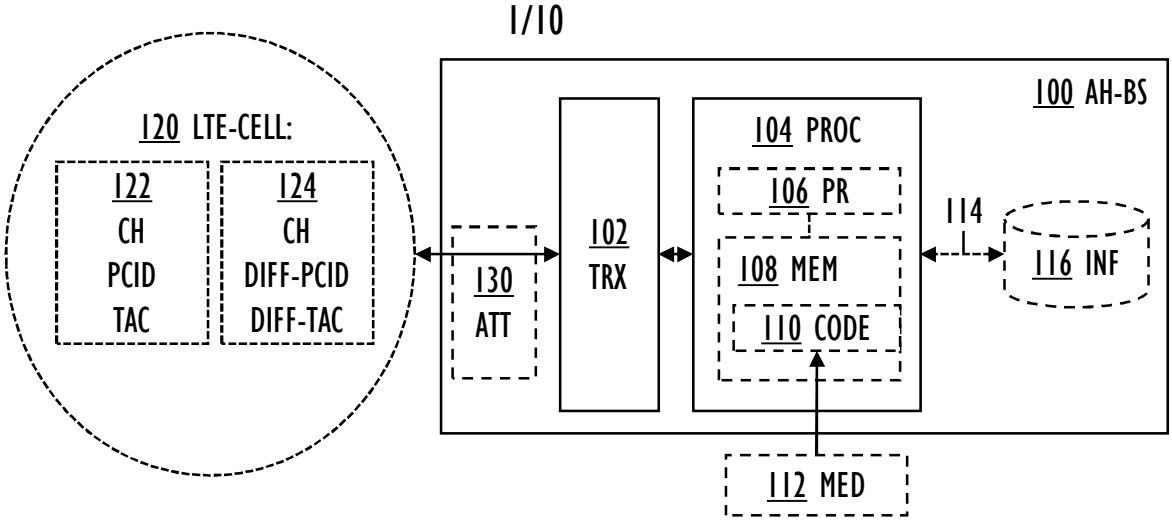

120 LTE-CELL:
122
CH
PCID
TAC
124
CH
DIFF-PCID
DIFF-TAC
100 AH-BS
130
ATT
102
TRX
104 PROC
106 PR
108 MEM
110 CODE
114
116 INF
112 MED

FIG. 1A

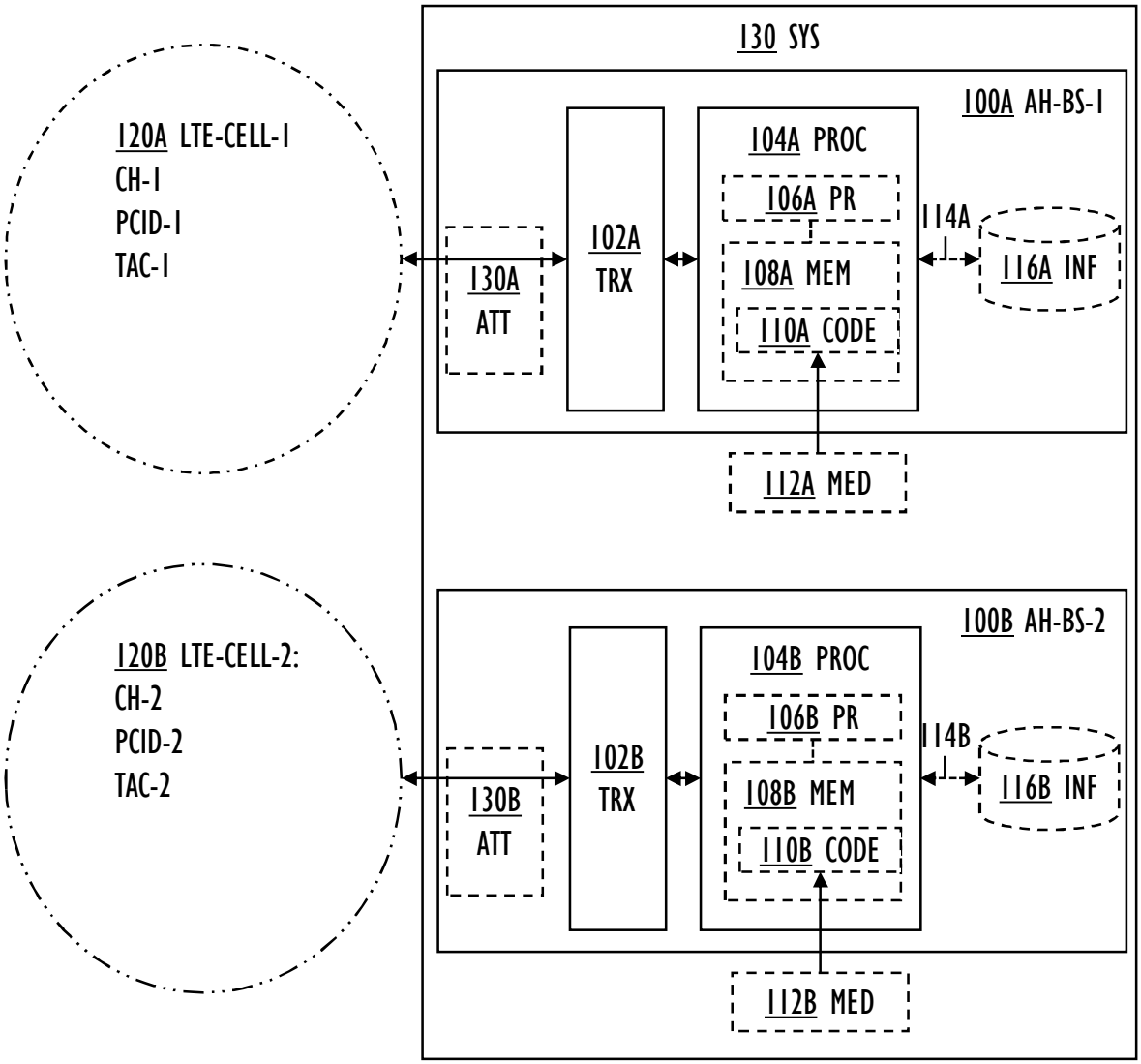

130 SYS
120A LTE-CELL-1
CH-1
PCID-1
TAC-1
100A AH-BS-1
130A
ATT
102A
TRX
104A PROC
106A PR
108A MEM
110A CODE
114A
116A INF
112A MED
120B LTE-CELL-2:
CH-2
PCID-2
TAC-2
100B AH-BS-2
130B
ATT
102B
TRX
104B PROC
106B PR
108B MEM
110B CODE
114B
116B INF
112B MED

FIG. 1B

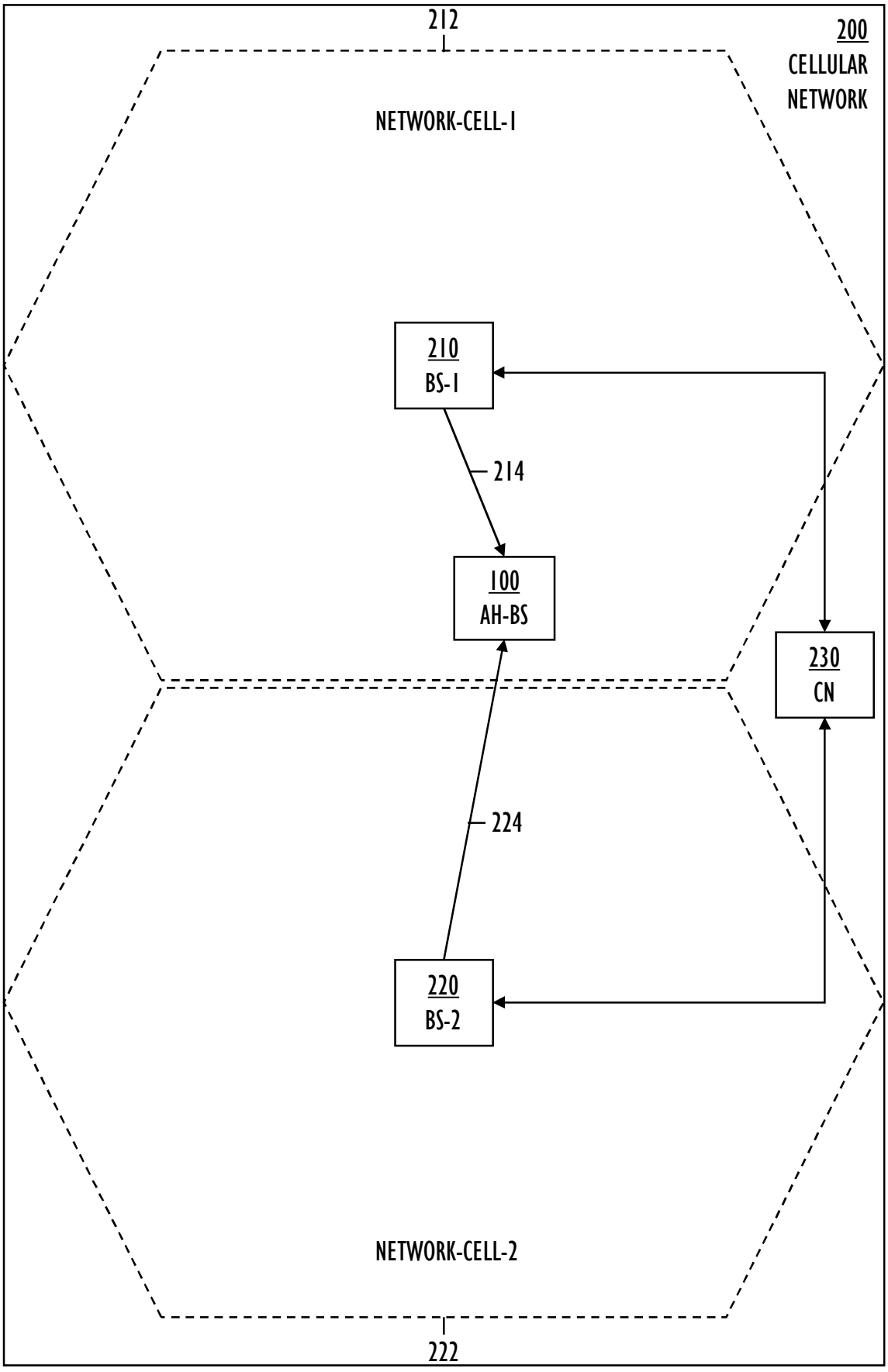

212
200
CELLULAR
NETWORK
NETWORK-CELL-1
210
BS-1
214
100
AH-BS
230
CN
224
220
BS-2
NETWORK-CELL-2
222

FIG. 2A

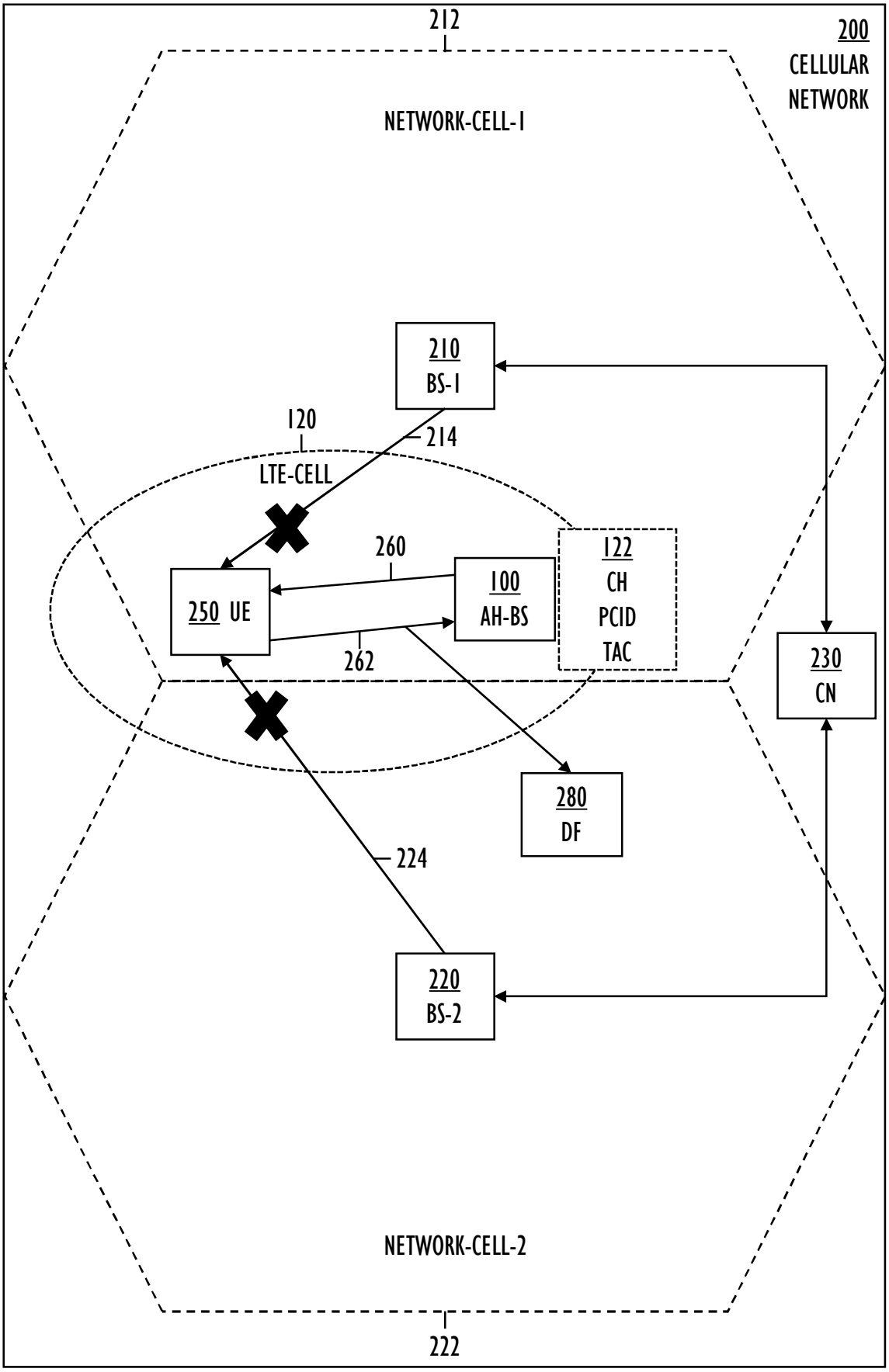

212
200
CELLULAR
NETWORK
NETWORK-CELL-1
210
BS-1
120
214
LTE-CELL
260
122
CH
PCID
TAC
250 UE
100
AH-BS
230
CN
262
280
DF
224
220
BS-2
NETWORK-CELL-2
222

FIG. 2B

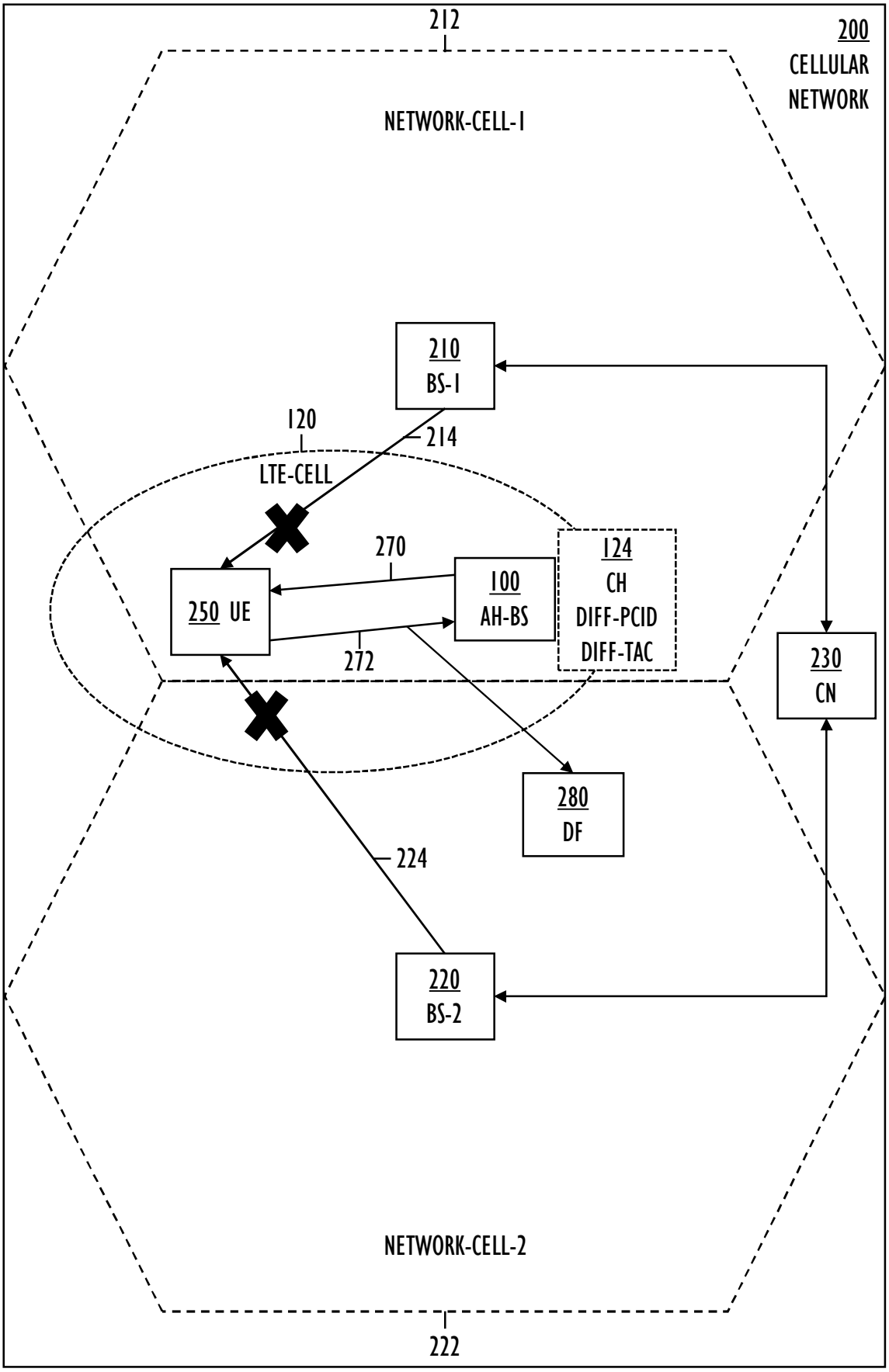

212
200
CELLULAR
NETWORK
NETWORK-CELL-1
210
BS-1
120
214
LTE-CELL
270
124
CH
DIFF-PCID
DIFF-TAC
250 UE
100
AH-BS
272
230
CN
280
DF
224
220
BS-2
NETWORK-CELL-2
222

FIG. 2C

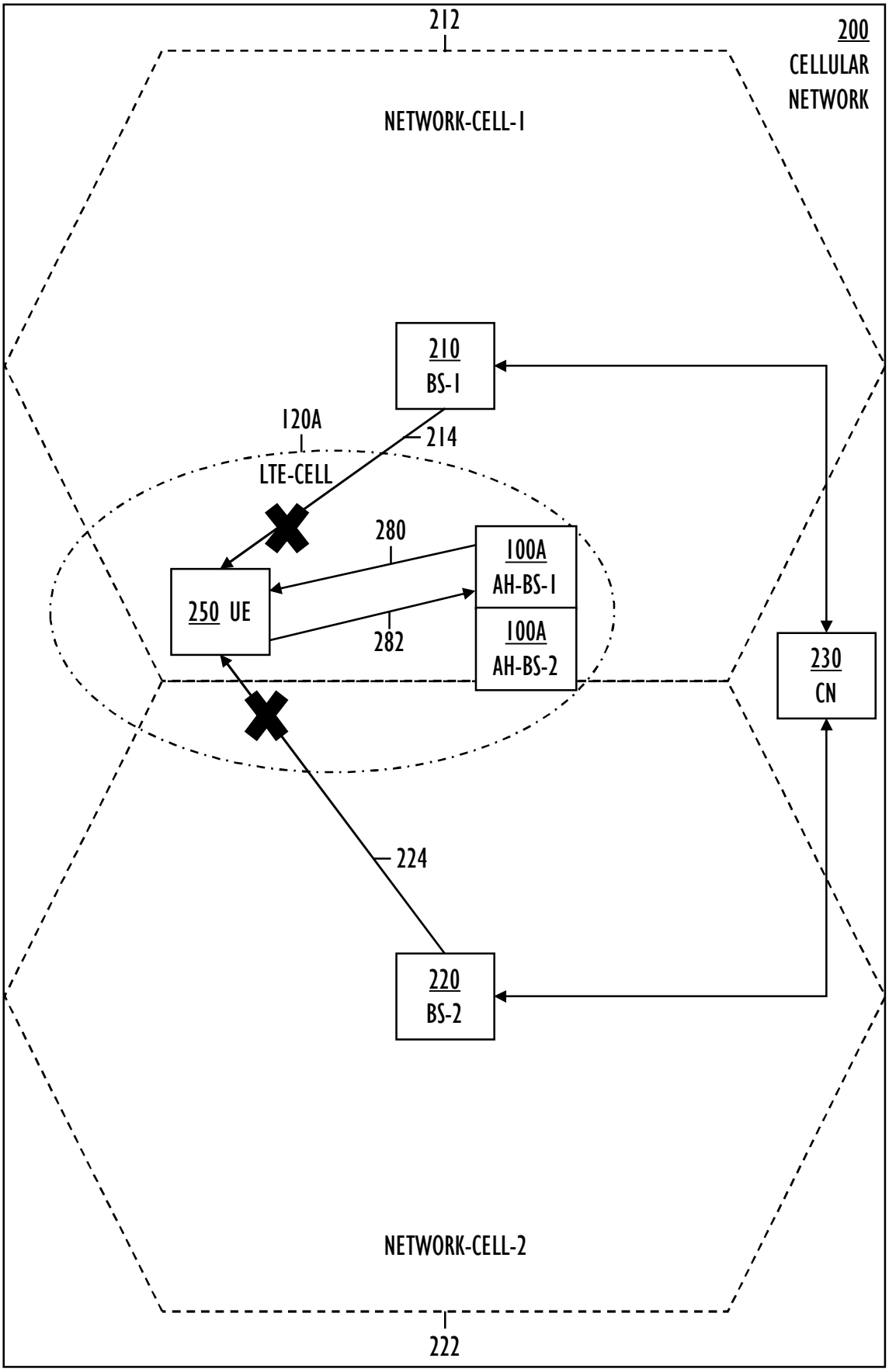

212
200
CELLULAR
NETWORK
NETWORK-CELL-1
210
BS-1
120A
214
LTE-CELL
280
100A
AH-BS-1
250 UE
100A
AH-BS-2
282
230
CN
224
220
BS-2
NETWORK-CELL-2
222

FIG. 2D

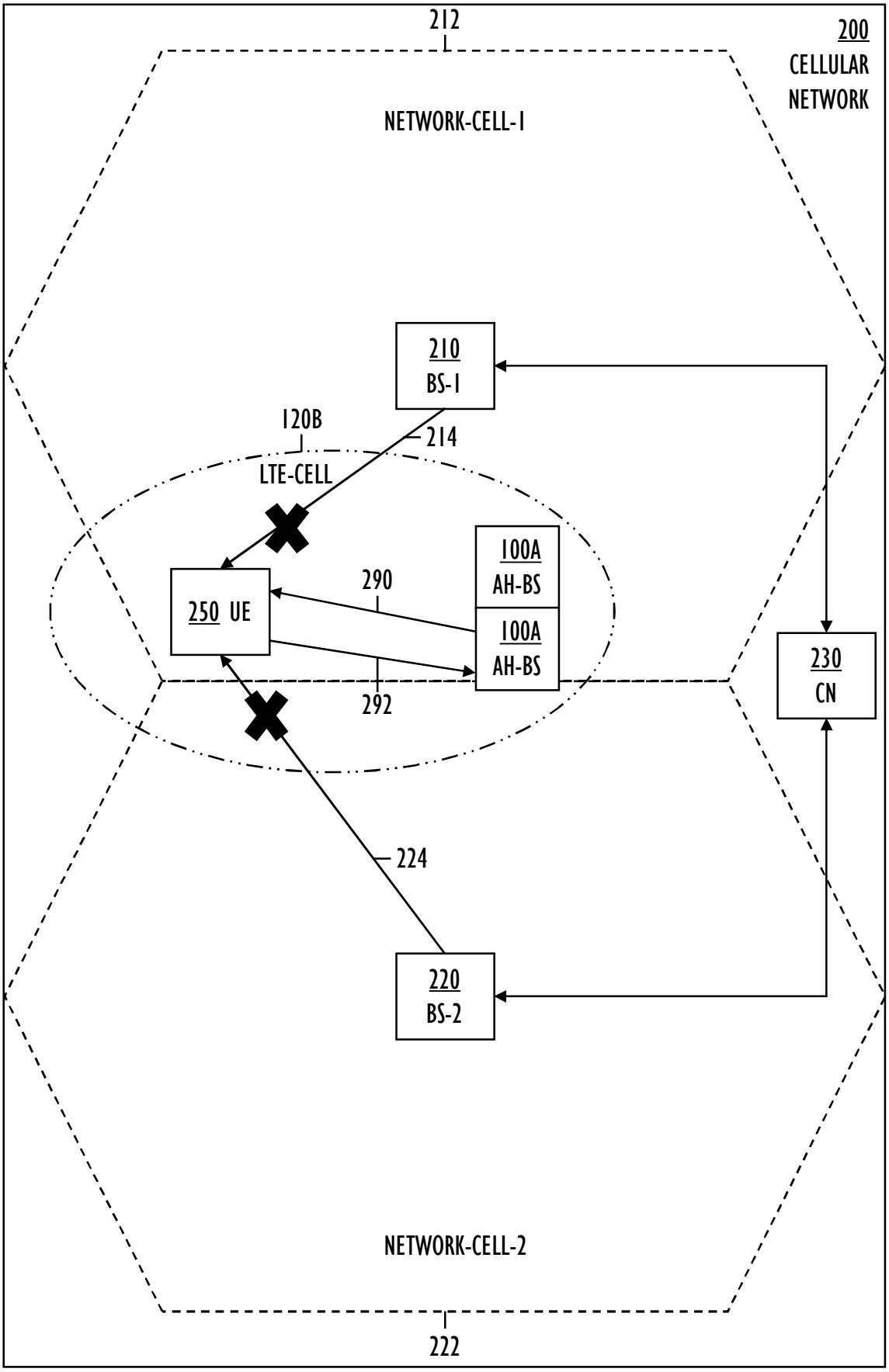

212
200
CELLULAR
NETWORK
NETWORK-CELL-1
210
BS-1
120B
214
LTE-CELL
100A
AH-BS
290
250 UE
100A
AH-BS
230
CN
292
224
220
BS-2
NETWORK-CELL-2
222

FIG. 2E

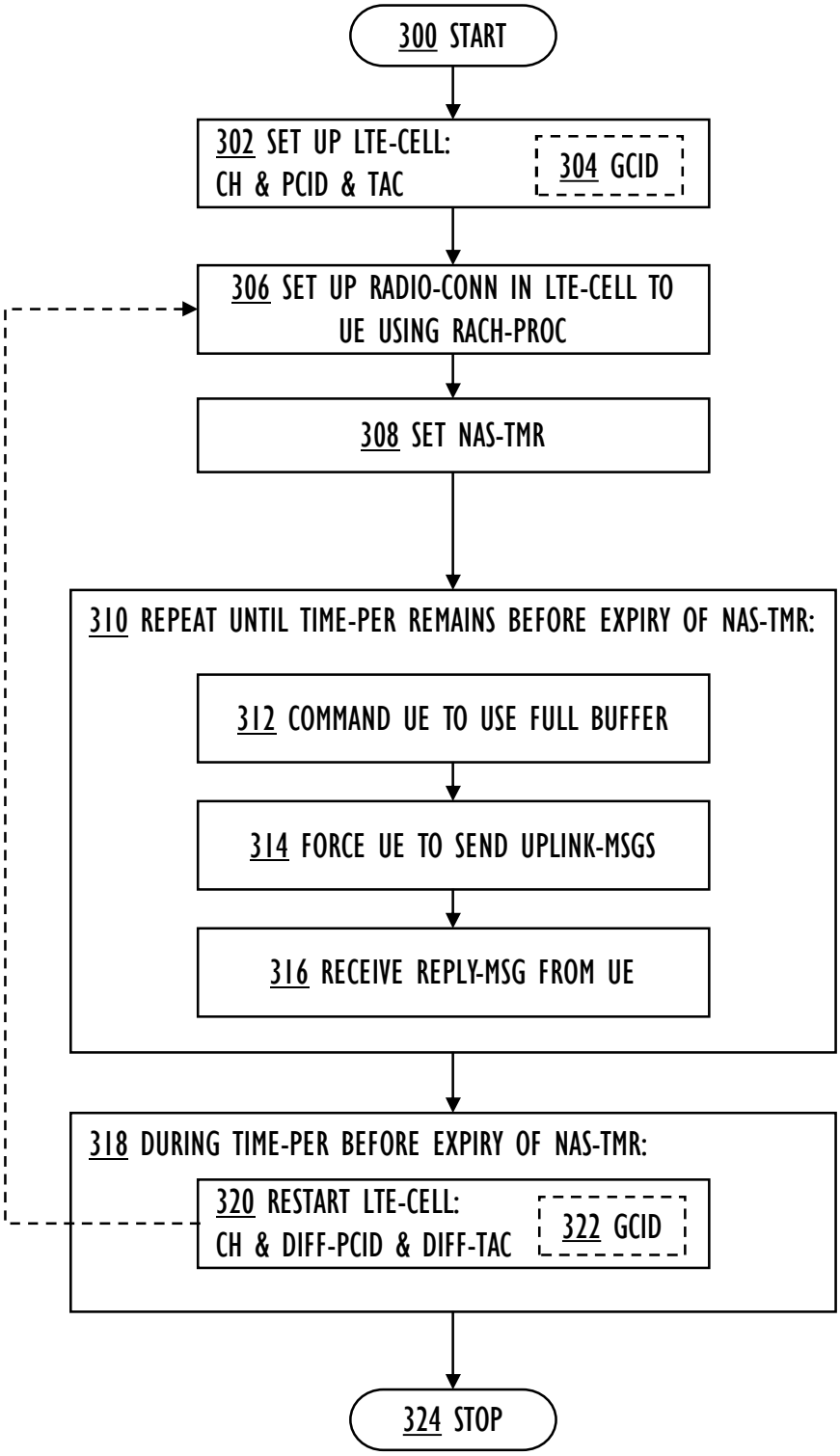

300 START
302 SET UP LTE-CELL: CH & PCID & TAC
304 GCID
306 SET UP RADIO-CONN IN LTE-CELL TO UE USING RACH-PROC
308 SET NAS-TMR
310 REPEAT UNTIL TIME-PER REMAINS BEFORE EXPIRY OF NAS-TMR:
312 COMMAND UE TO USE FULL BUFFER
314 FORCE UE TO SEND UPLINK-MSGS
316 RECEIVE REPLY-MSG FROM UE
318 DURING TIME-PER BEFORE EXPIRY OF NAS-TMR:
320 RESTART LTE-CELL: CH & DIFF-PCID & DIFF-TAC
322 GCID
324 STOP

FIG. 3A

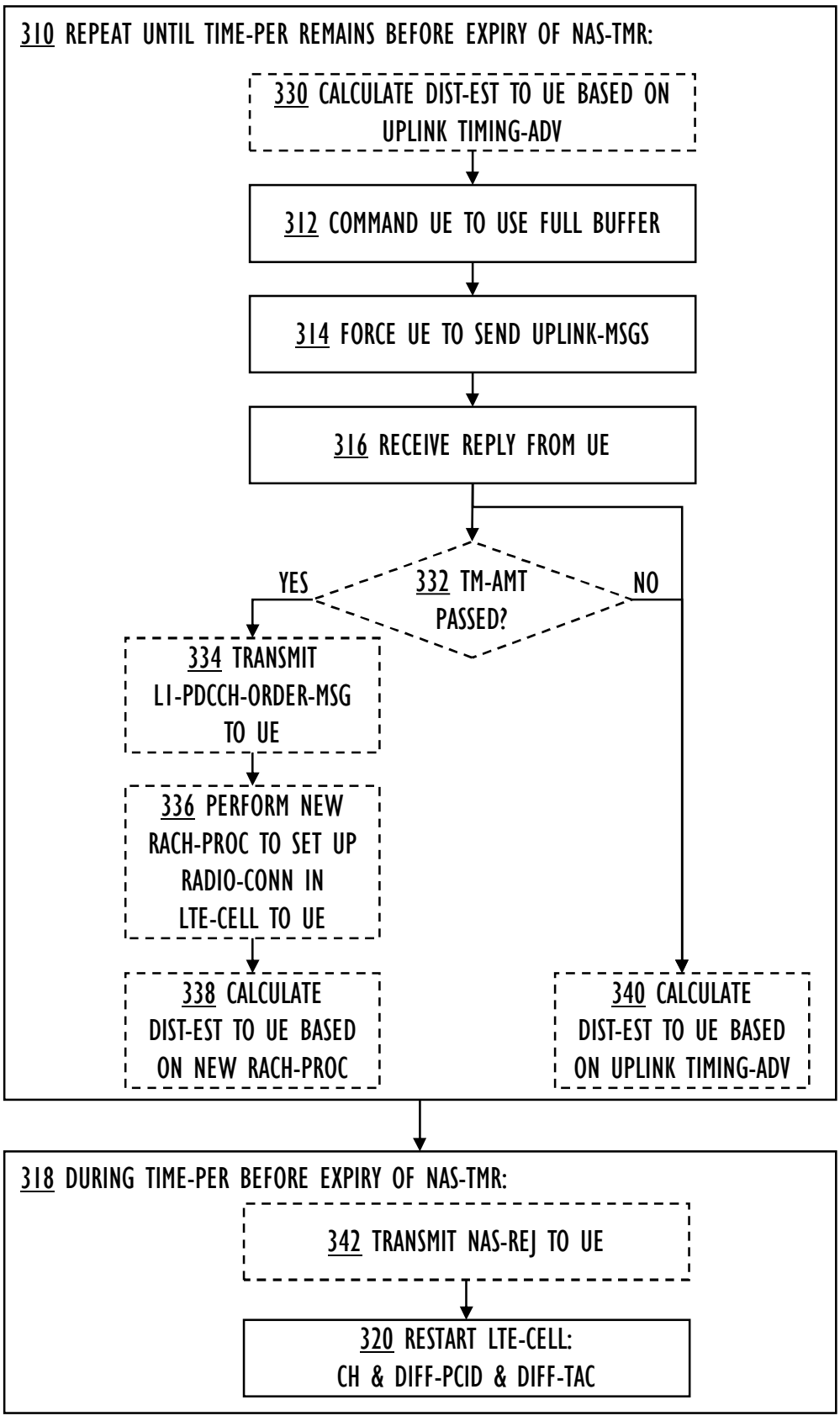

310 REPEAT UNTIL TIME-PER REMAINS BEFORE EXPIRY OF NAS-TMR:
330 CALCULATE DIST-EST TO UE BASED ON UPLINK TIMING-ADV
312 COMMAND UE TO USE FULL BUFFER
314 FORCE UE TO SEND UPLINK-MSGS
316 RECEIVE REPLY FROM UE
332 TM-AMT PASSED?
YES
NO
334 TRANSMIT L1-PDCCH-ORDER-MSG TO UE
336 PERFORM NEW RACH-PROC TO SET UP RADIO-CONN IN LTE-CELL TO UE
338 CALCULATE DIST-EST TO UE BASED ON NEW RACH-PROC
340 CALCULATE DIST-EST TO UE BASED ON UPLINK TIMING-ADV
318 DURING TIME-PER BEFORE EXPIRY OF NAS-TMR:
342 TRANSMIT NAS-REJ TO UE
320 RESTART LTE-CELL: CH & DIFF-PCID & DIFF-TAC

FIG. 3B

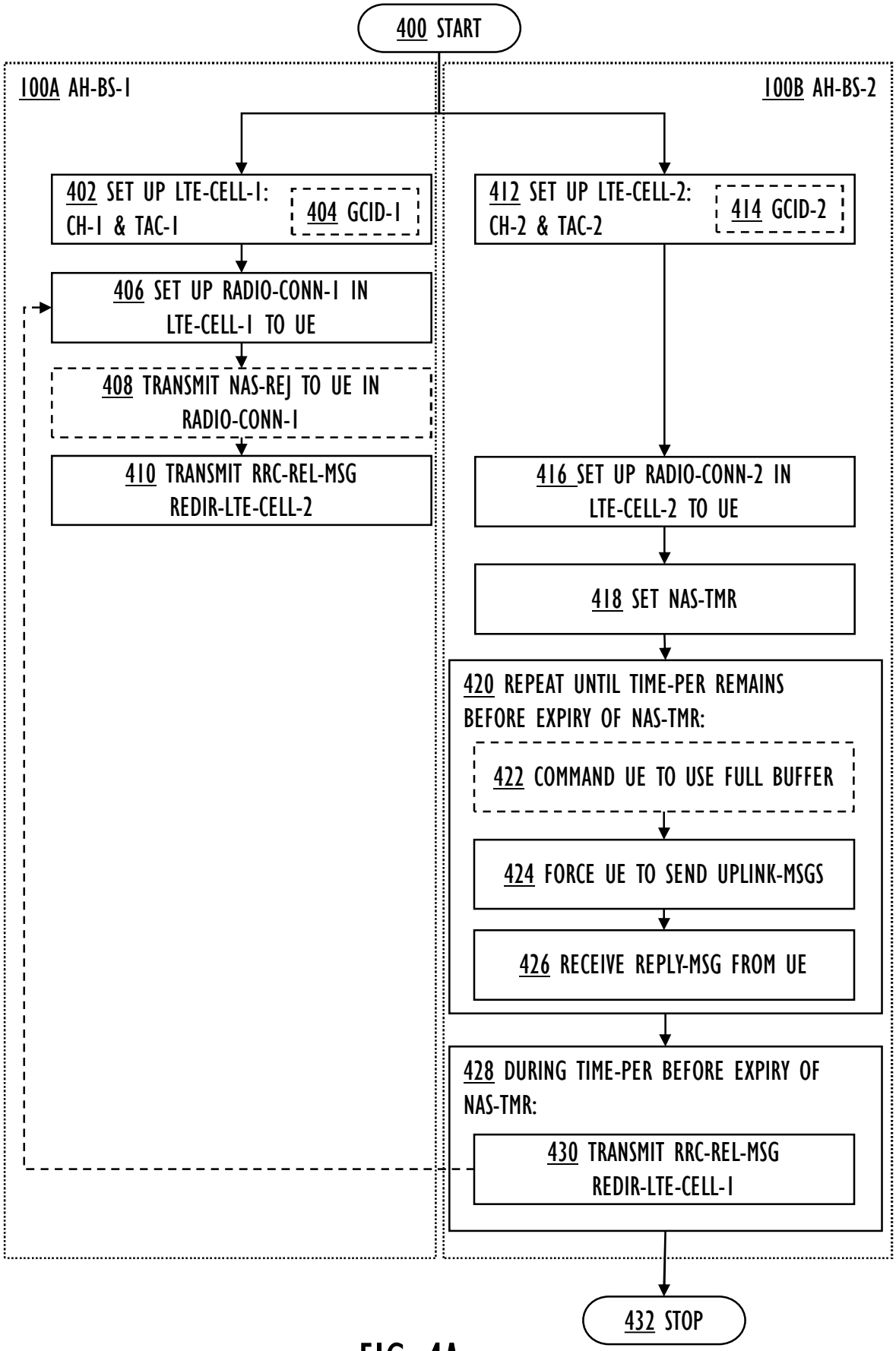

400 START
100A AH-BS-1
100B AH-BS-2
402 SET UP LTE-CELL-1: CH-1 & TAC-1
404 GCID-1
406 SET UP RADIO-CONN-1 IN LTE-CELL-1 TO UE
408 TRANSMIT NAS-REJ TO UE IN RADIO-CONN-1
410 TRANSMIT RRC-REL-MSG REDIR-LTE-CELL-2
412 SET UP LTE-CELL-2: CH-2 & TAC-2
414 GCID-2
416 SET UP RADIO-CONN-2 IN LTE-CELL-2 TO UE
418 SET NAS-TMR
420 REPEAT UNTIL TIME-PER REMAINS BEFORE EXPIRY OF NAS-TMR:
422 COMMAND UE TO USE FULL BUFFER
424 FORCE UE TO SEND UPLINK-MSGS
426 RECEIVE REPLY-MSG FROM UE
428 DURING TIME-PER BEFORE EXPIRY OF NAS-TMR:
430 TRANSMIT RRC-REL-MSG REDIR-LTE-CELL-1
432 STOP

FIG. 4A

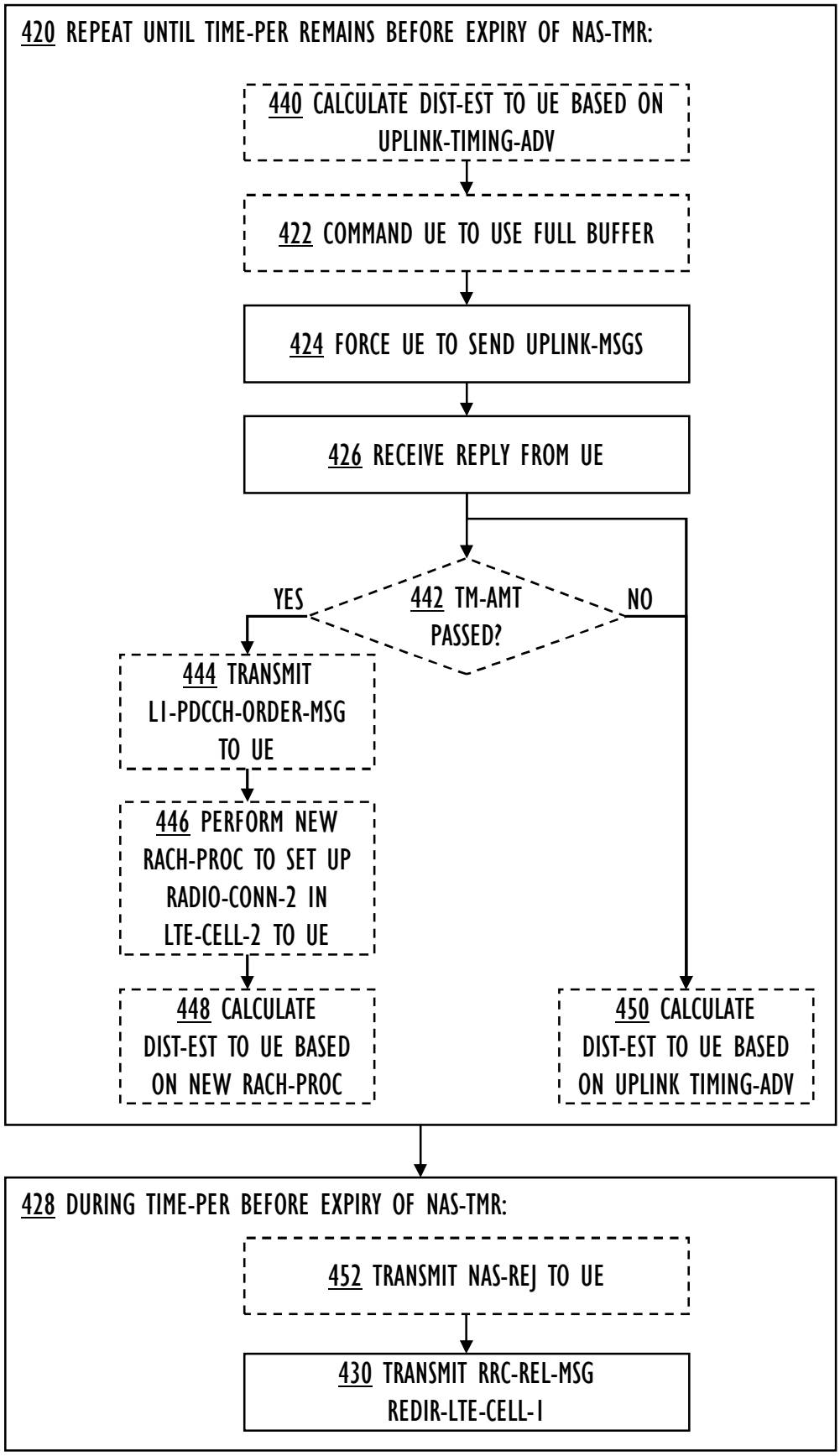

420 REPEAT UNTIL TIME-PER REMAINS BEFORE EXPIRY OF NAS-TMR:
440 CALCULATE DIST-EST TO UE BASED ON UPLINK-TIMING-ADV
422 COMMAND UE TO USE FULL BUFFER
424 FORCE UE TO SEND UPLINK-MSGS
426 RECEIVE REPLY FROM UE
442 TM-AMT PASSED?
YES
NO
444 TRANSMIT L1-PDCCH-ORDER-MSG TO UE
446 PERFORM NEW RACH-PROC TO SET UP RADIO-CONN-2 IN LTE-CELL-2 TO UE
448 CALCULATE DIST-EST TO UE BASED ON NEW RACH-PROC
450 CALCULATE DIST-EST TO UE BASED ON UPLINK TIMING-ADV
428 DURING TIME-PER BEFORE EXPIRY OF NAS-TMR:
452 TRANSMIT NAS-REJ TO UE
430 TRANSMIT RRC-REL-MSG REDIR-LTE-CELL-1

FIG. 4B