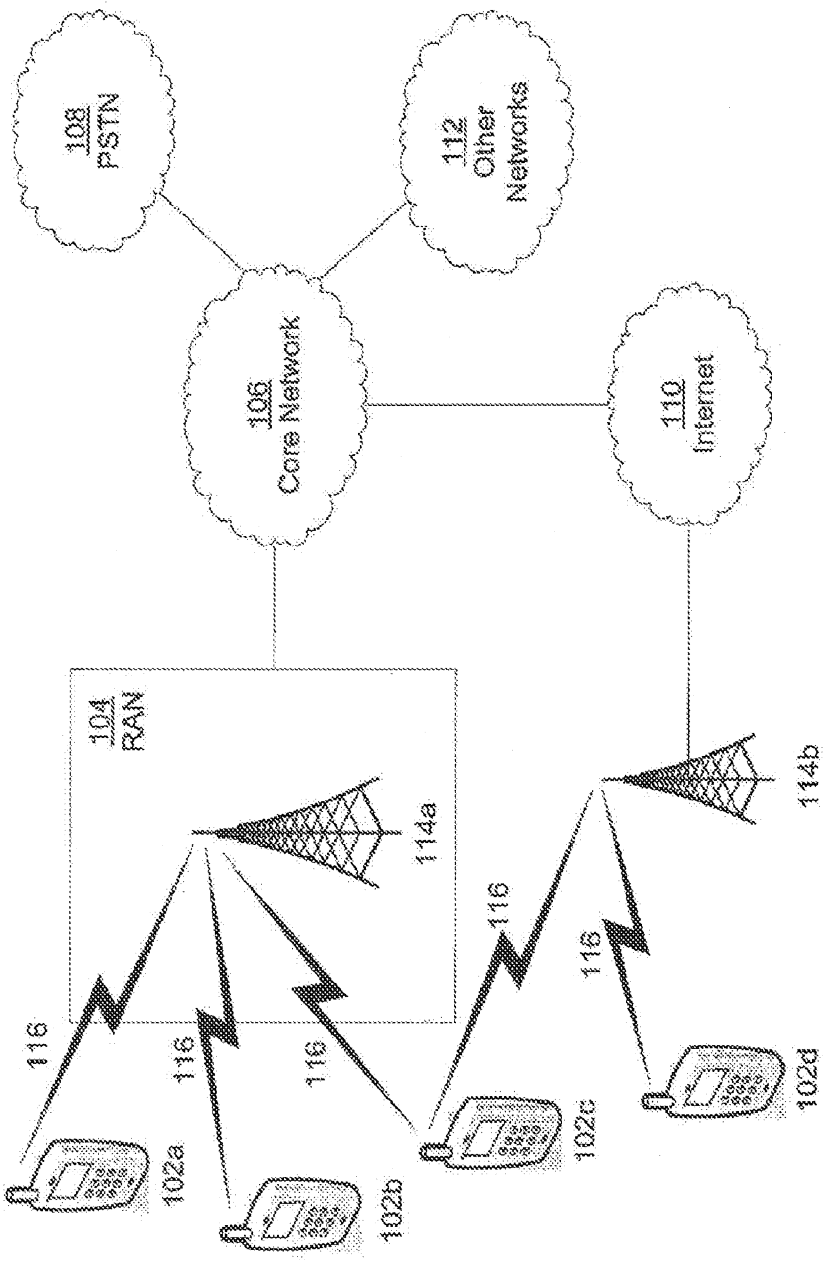

100
108
PSTN
112
Other
Networks
106
Core Network
110
Internet
104
RAN
114a
114b
116
102a
102b
102c
102d

Figure 1A

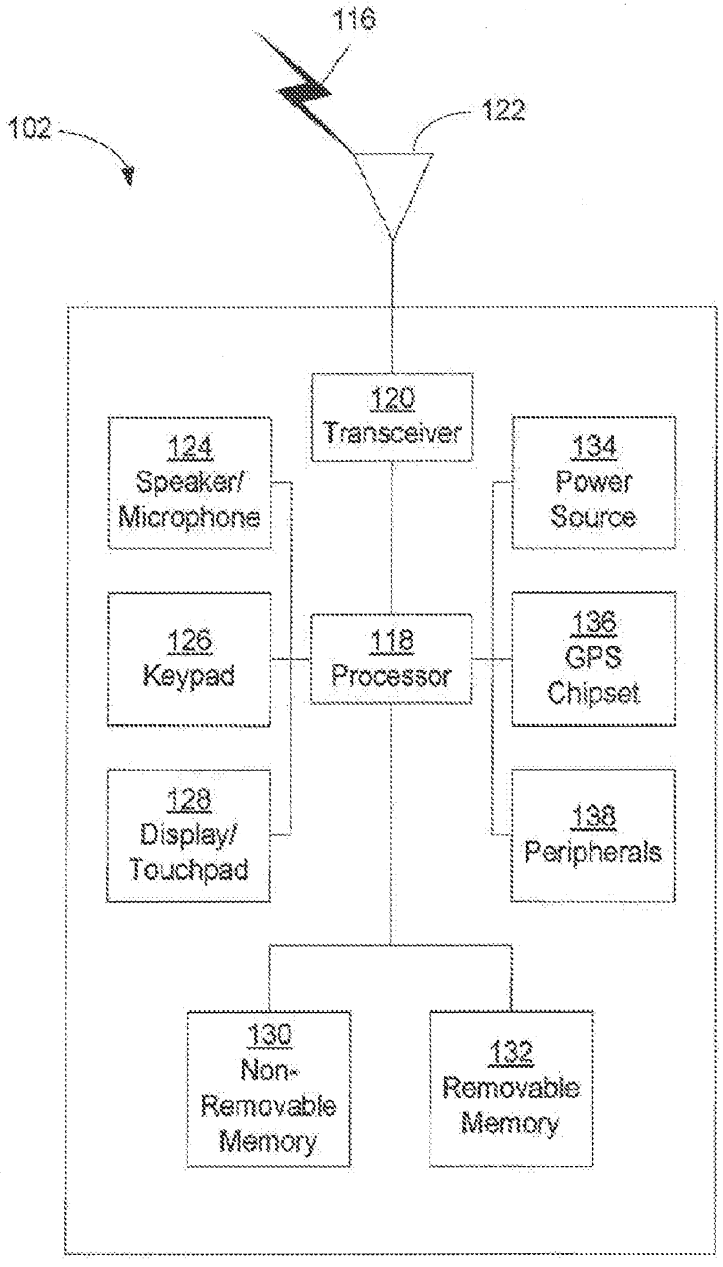

116
122
102
120
Transceiver
124
Speaker/
Microphone
134
Power
Source
126
Keypad
118
Processor
136
GPS
Chipset
128
Display/
Touchpad
138
Peripherals
130
Non-
Removable
Memory
132
Removable
Memory

Figure 1B

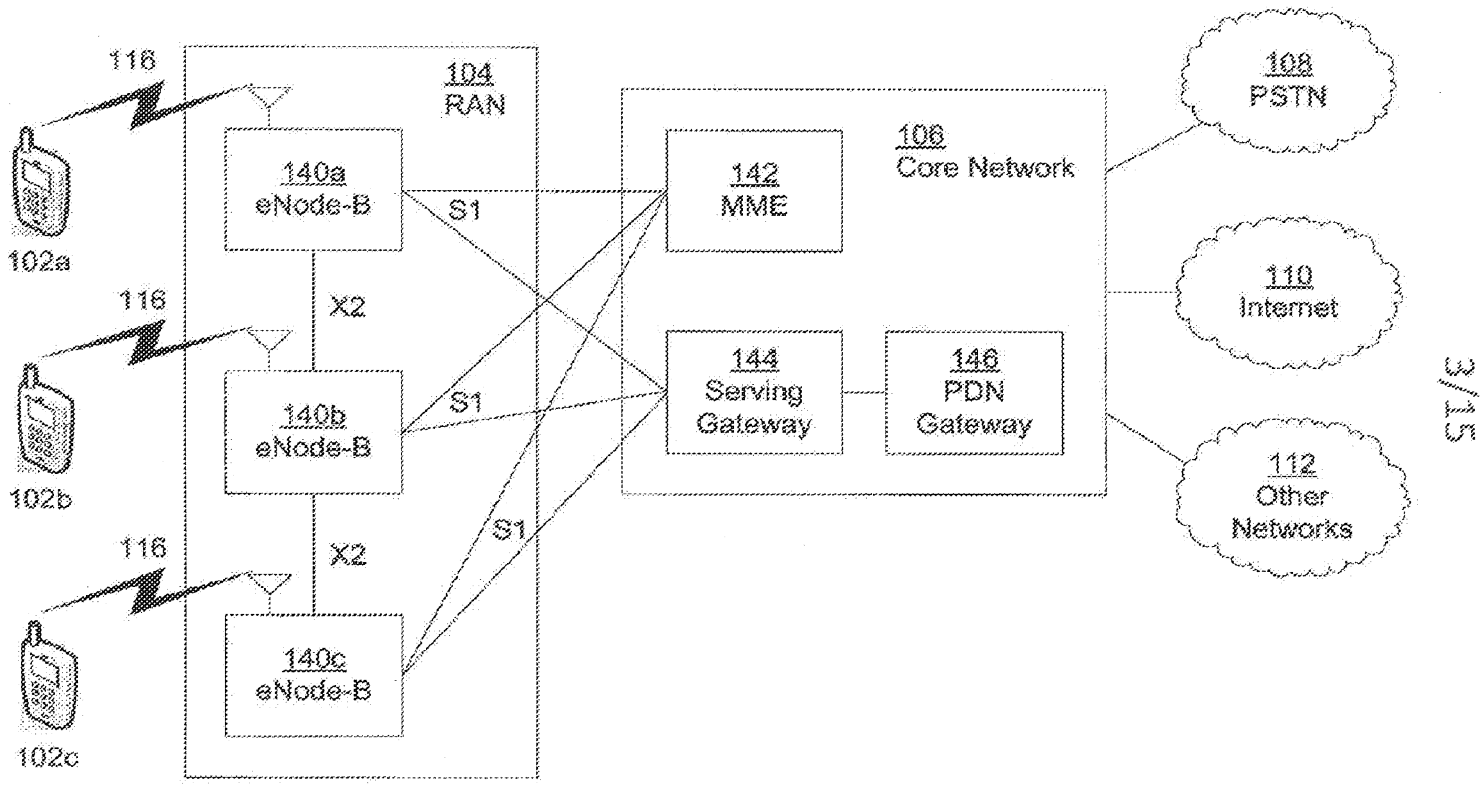

116
104
RAN
140a
eNode-B
S1
102a
116
X2
140b
eNode-B
S1
102b
116
X2
S1
140c
eNode-B
102c
142
MME
106
Core Network
144
Serving
Gateway
146
PDN
Gateway
108
PSTN
110
Internet
112
Other
Networks

Figure 1C

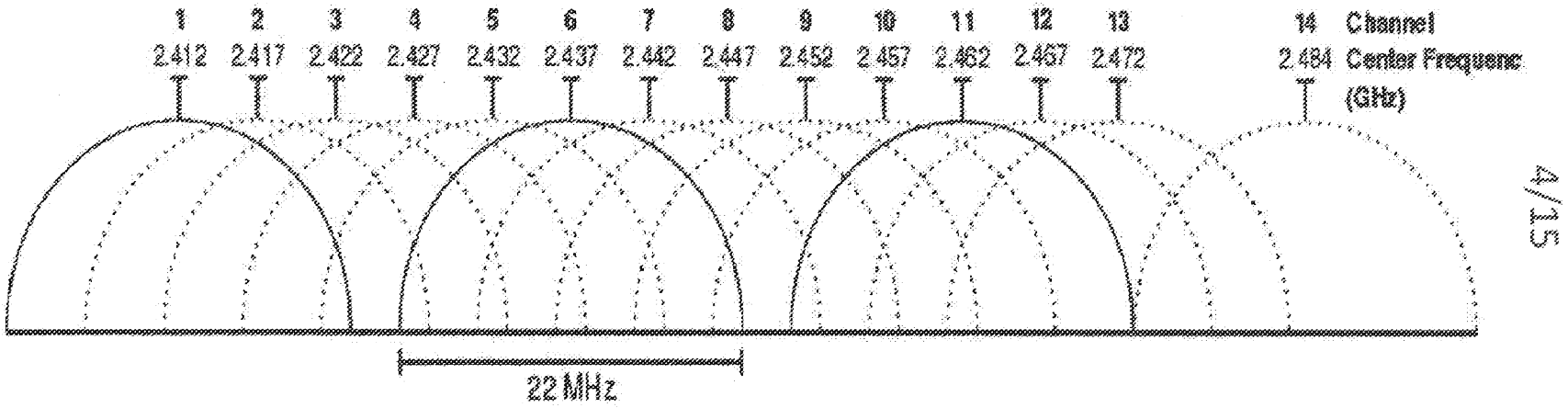

1 2 3 4 5 6 7 8 9 10 11 12 13 14 Channel
2.412 2.417 2.422 2.427 2.432 2.437 2.442 2.447 2.452 2.457 2.462 2.467 2.472 2.484 Center Frequenc
(GHz)
22 MHz

Figure 2

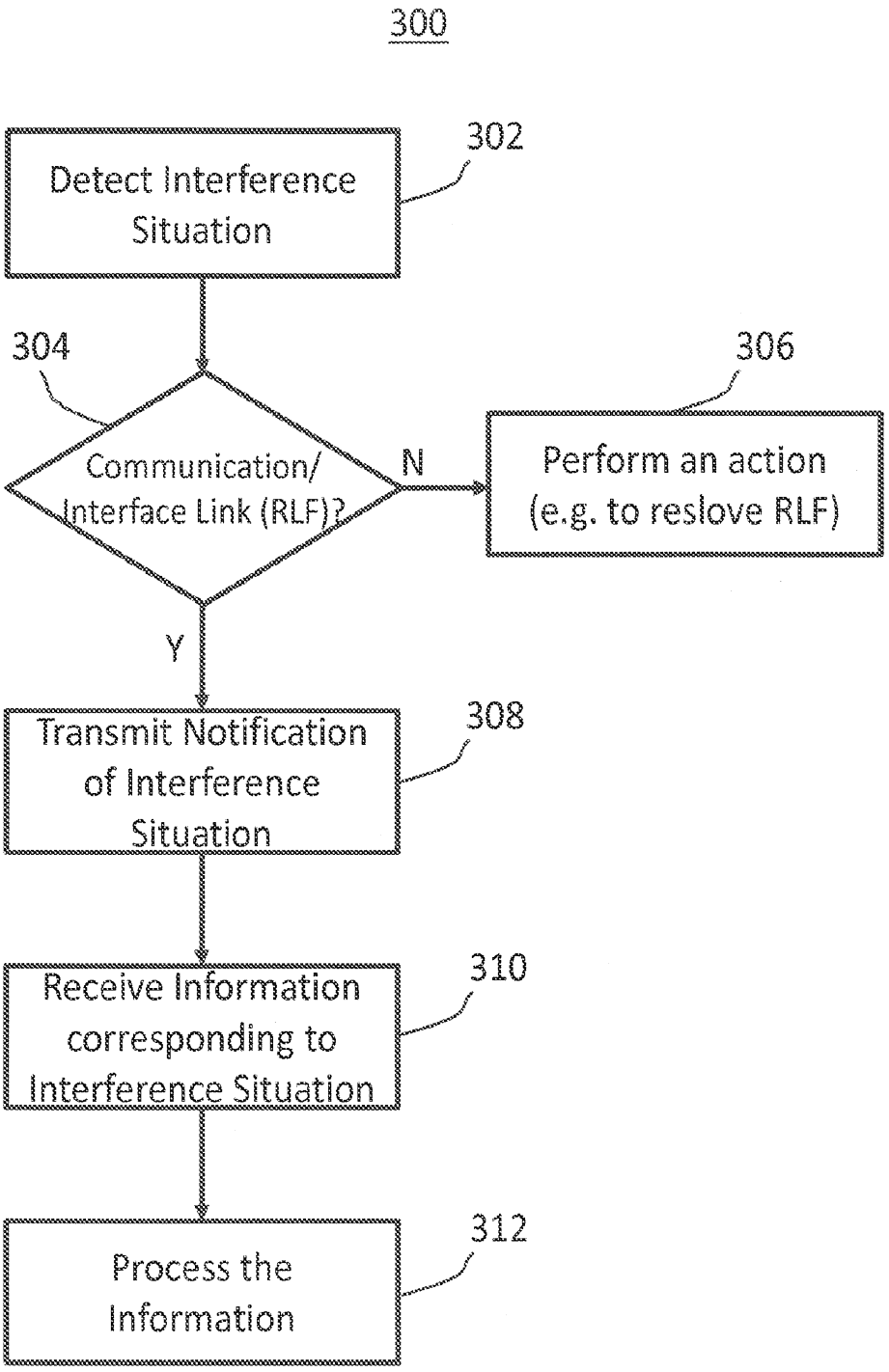

300
Detect Interference Situation
302
304
Communication/ Interface Link (RLF)?
N
306
Perform an action (e.g. to reslove RLF)
Y
Transmit Notification of Interference Situation
308
Receive Information corresponding to Interference Situation
310
Process the Information
312

Figure 3

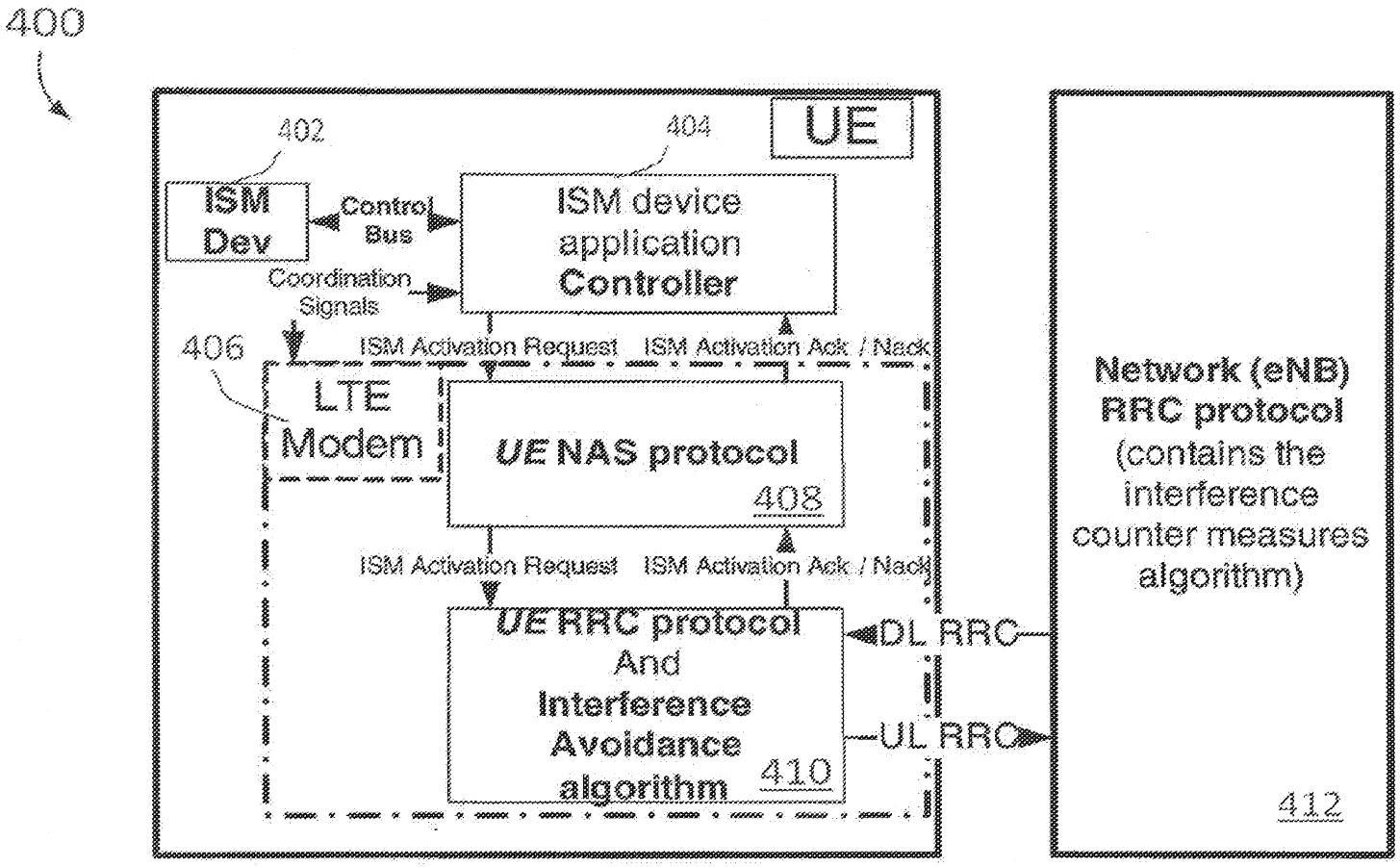

400
UE
402
404
ISM Dev
Control Bus
ISM device application Controller
Coordination Signals
406
ISM Activation Request
ISM Activation Ack / Nack
LTE Modem
UE NAS protocol
408
ISM Activation Request
ISM Activation Ack / Nack
UE RRC protocol And Interference Avoidance algorithm
410
DL RRC
UL RRC
Network (eNB) RRC protocol (contains the interference counter measures algorithm)
412

Figure 4

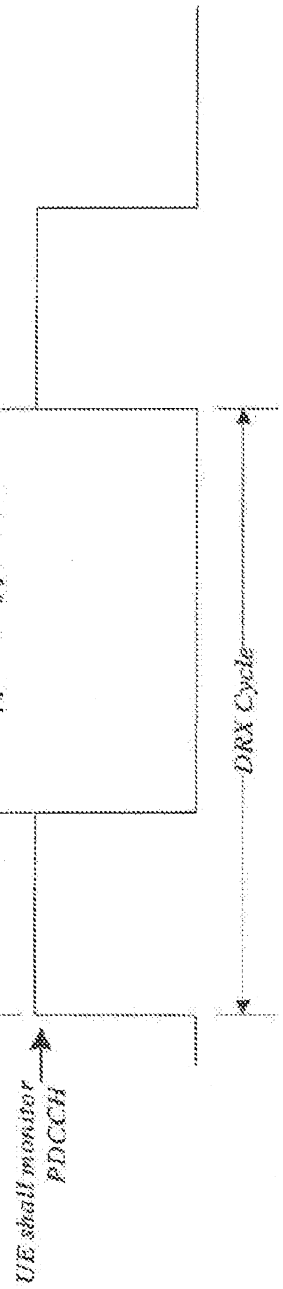

UE shall monitor PDCCH
On Duration
Opportunity for DRX
DRX Cycle

Figure 5

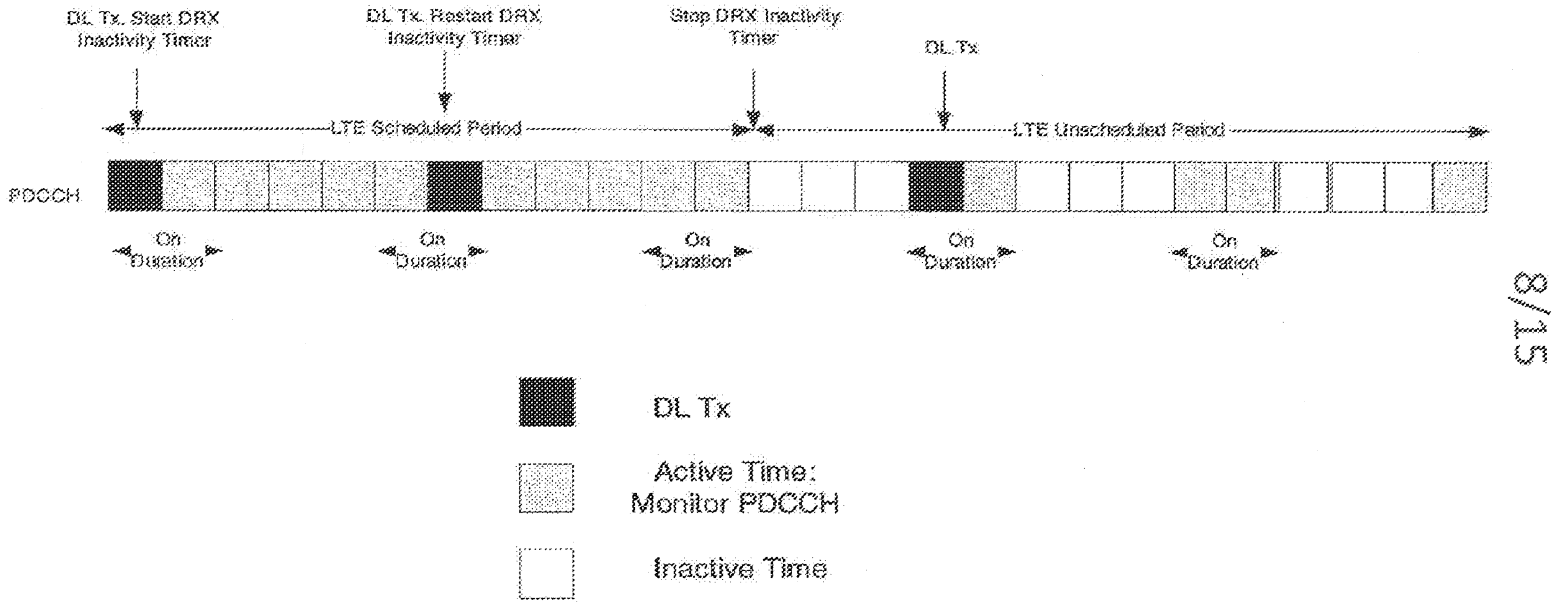

DL Tx. Start DRX Inactivity Timer
DL Tx. Restart DRX Inactivity Timer
Stop DRX Inactivity Timer
DL Tx
LTE Scheduled Period
LTE Unscheduled Period
PDCCH
On Duration
On Duration
On Duration
On Duration
On Duration
DL Tx
Active Time: Monitor PDCCH
Inactive Time

Figure 6

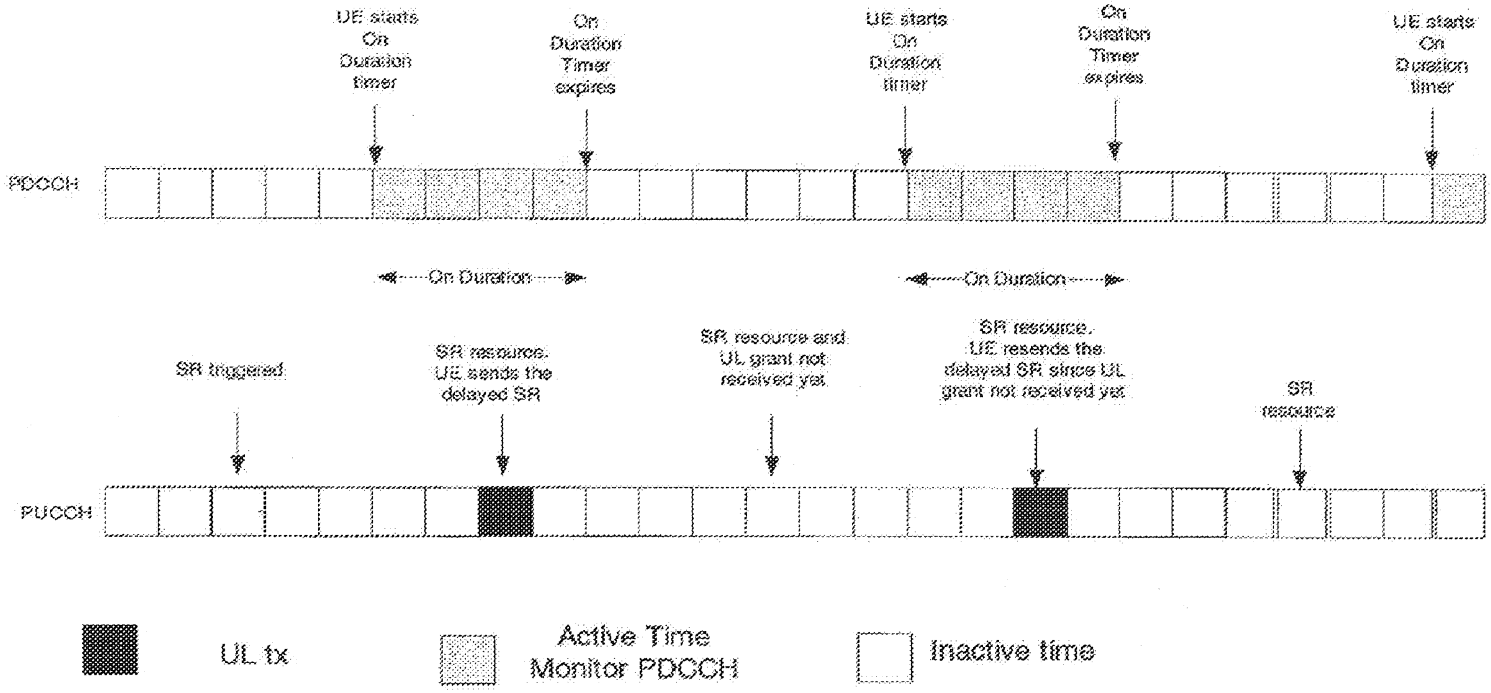

UE starts On Duration timer
On Duration Timer expires
UE starts On Duration timer
On Duration Timer expires
UE starts On Duration timer
PDCCH
On Duration
On Duration
SR triggered
SR resource. UE sends the delayed SR
SR resource and UL grant not received yet
SR resource. UE resends the delayed SR since UL grant not received yet
SR resource
PUCCH
UL tx
Active Time Monitor PDCCH
Inactive time

Figure 7

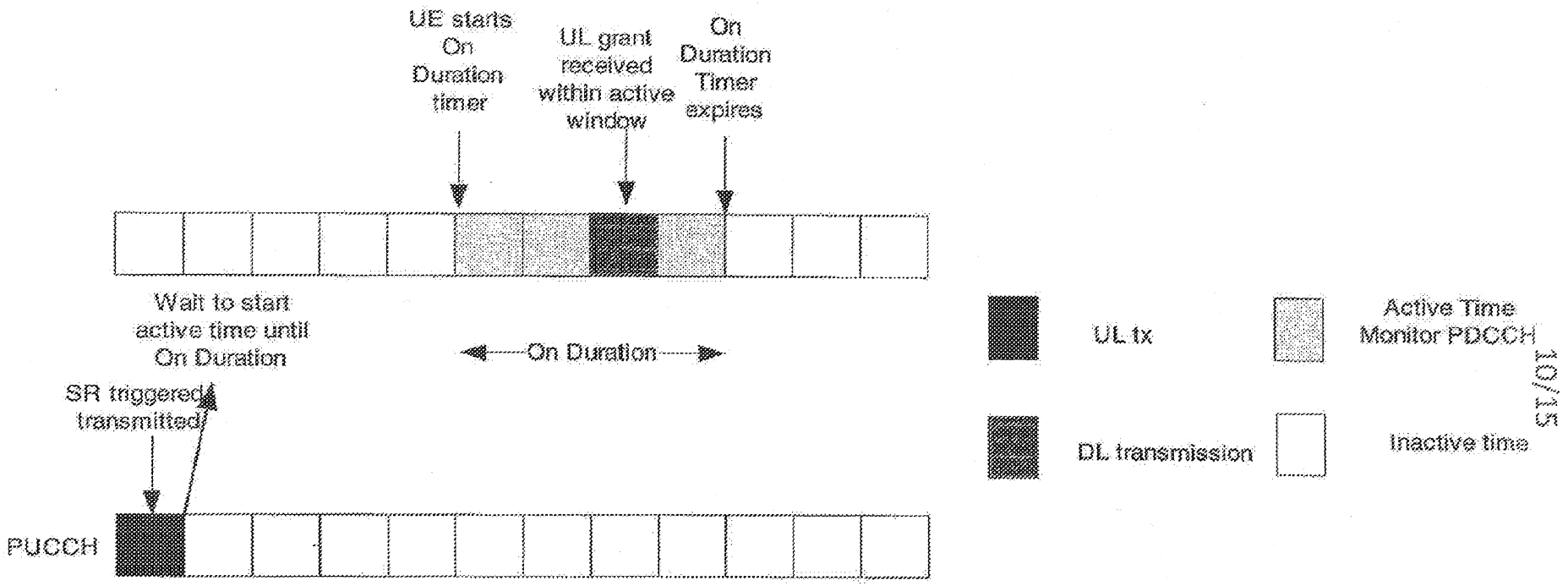

UE starts On Duration timer
UL grant received within active window
On Duration Timer expires
Wait to start active time until On Duration
On Duration
SR triggered transmitted
PUCCH
UL tx
Active Time Monitor PDCCH
DL transmission
Inactive time

Figure 8

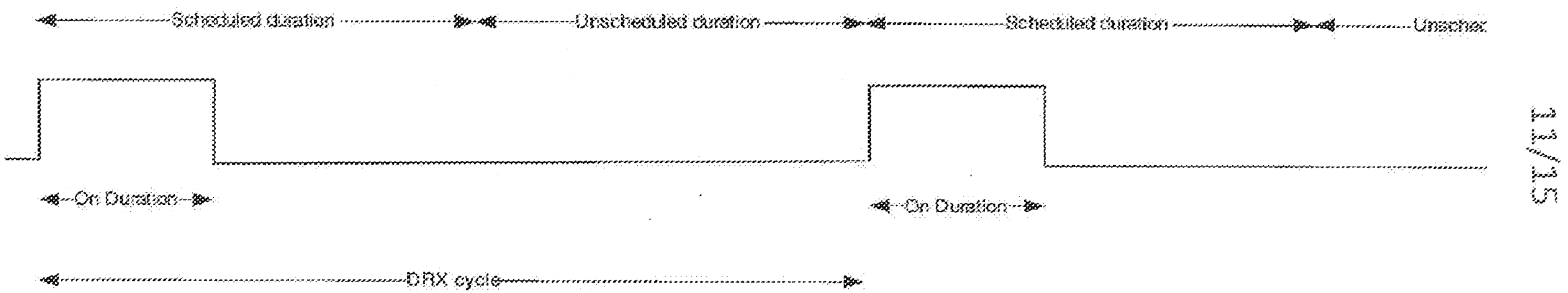

Scheduled duration
Unscheduled duration
Scheduled duration
Unsched
On Duration
On Duration
DRX cycle

Figure 9

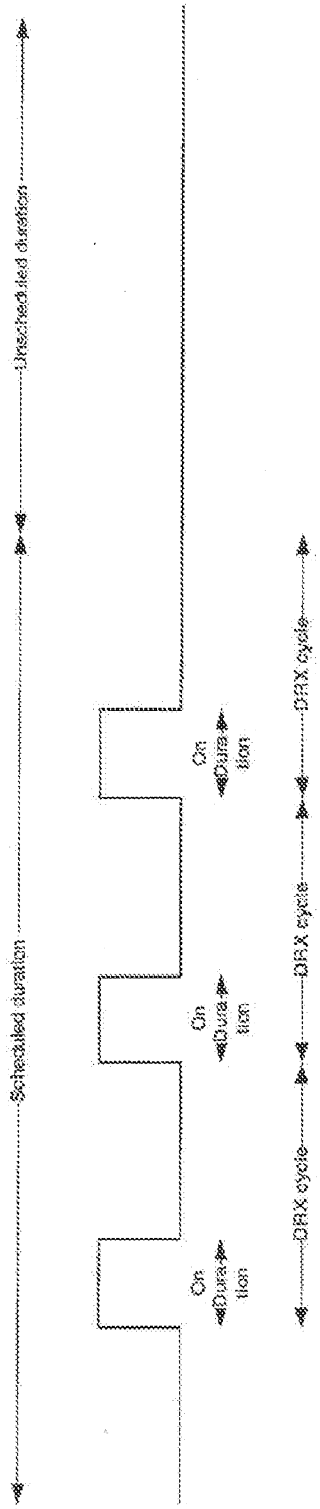

Unscheduled duration
Scheduled duration
On Duration
On Duration
On Duration
DRX cycle
DRX cycle

Figure 10

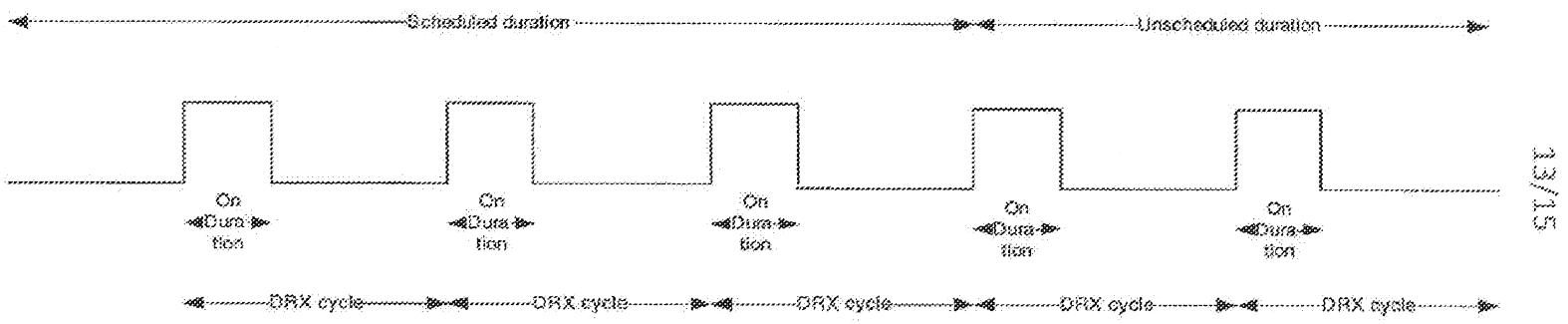
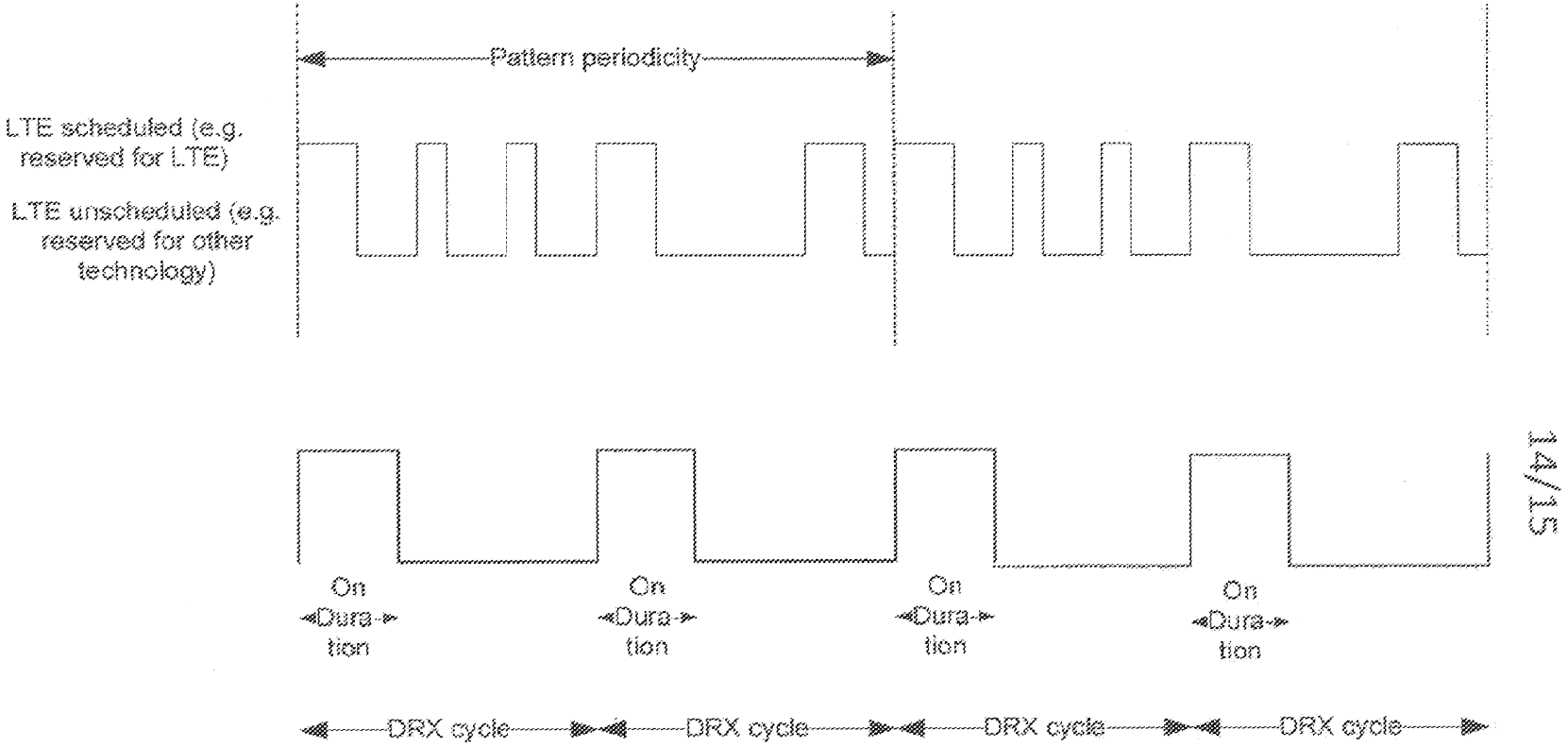

Scheduled duration
Unscheduled duration
On Duration
On Duration
On Duration
On Duration
On Duration
DRX cycle
DRX cycle
DRX cycle
DRX cycle
DRX cycle

Figure 11



14/15

Figure 12

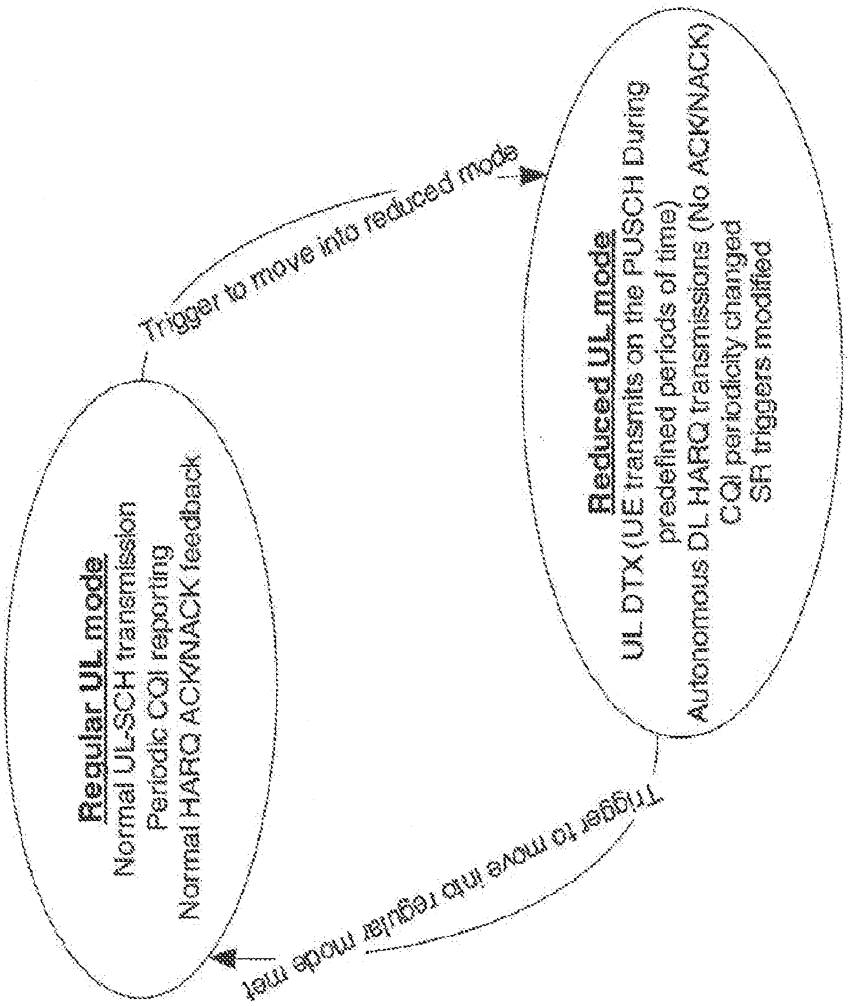

Regular UL mode
Normal UL-SCH transmission
Periodic CQI reporting
Normal HARQ ACK/NACK feedback
Trigger to move into reduced mode
Reduced UL mode
UL DTX (UE transmits on the PUSCH During predefined periods of time)
Autonomous DL HARQ transmissions (No ACK/NACK)
CQI periodicity changed
SR triggers modified
Trigger to move into regular mode met

Figure 13