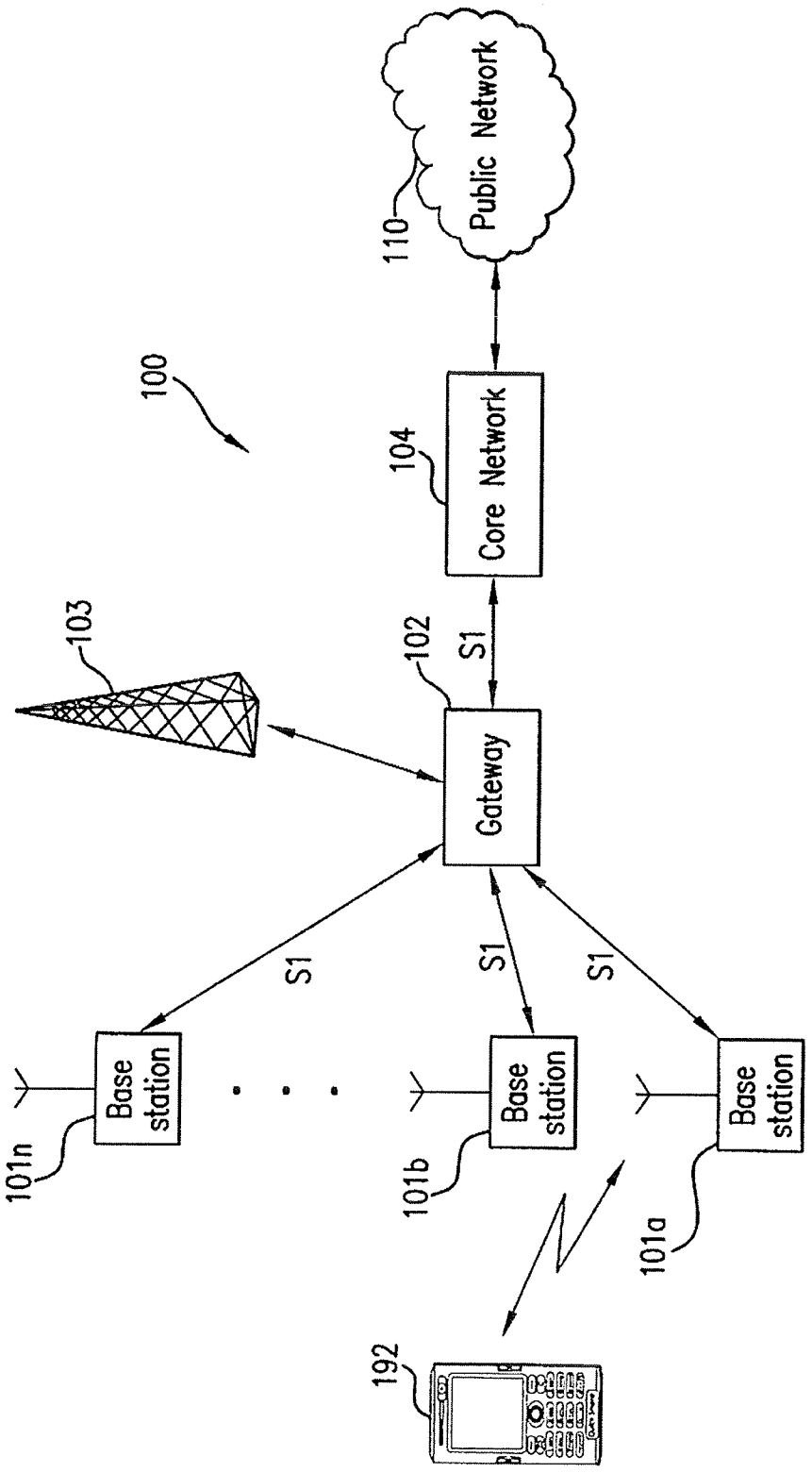

100
110
Public Network
104
Core Network
103
102
S1
Gateway
S1
S1
S1
Base station
101n
Base station
101b
Base station
101a
192

FIG. 1

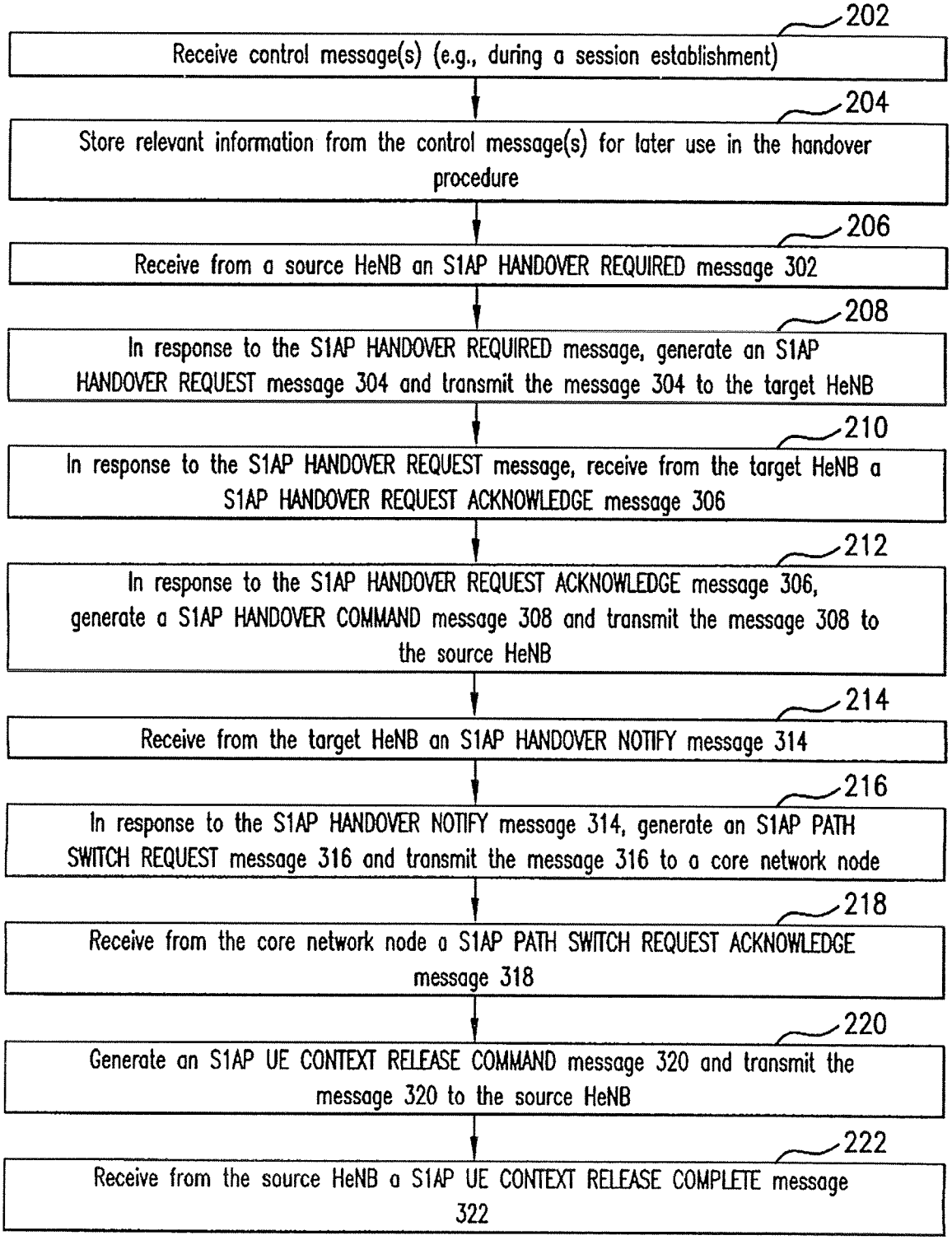

202
Receive control message(s) (e.g., during a session establishment)
204
Store relevant information from the control message(s) for later use in the handover procedure
206
Receive from a source HeNB an S1AP HANDOVER REQUIRED message 302
208
In response to the S1AP HANDOVER REQUIRED message, generate an S1AP HANDOVER REQUEST message 304 and transmit the message 304 to the target HeNB
210
In response to the S1AP HANDOVER REQUEST message, receive from the target HeNB a S1AP HANDOVER REQUEST ACKNOWLEDGE message 306
212
In response to the S1AP HANDOVER REQUEST ACKNOWLEDGE message 306, generate a S1AP HANDOVER COMMAND message 308 and transmit the message 308 to the source HeNB
214
Receive from the target HeNB an S1AP HANDOVER NOTIFY message 314
216
In response to the S1AP HANDOVER NOTIFY message 314, generate an S1AP PATH SWITCH REQUEST message 316 and transmit the message 316 to a core network node
218
Receive from the core network node a S1AP PATH SWITCH REQUEST ACKNOWLEDGE message 318
220
Generate an S1AP UE CONTEXT RELEASE COMMAND message 320 and transmit the message 320 to the source HeNB
222
Receive from the source HeNB a S1AP UE CONTEXT RELEASE COMPLETE message 322

FIG.2

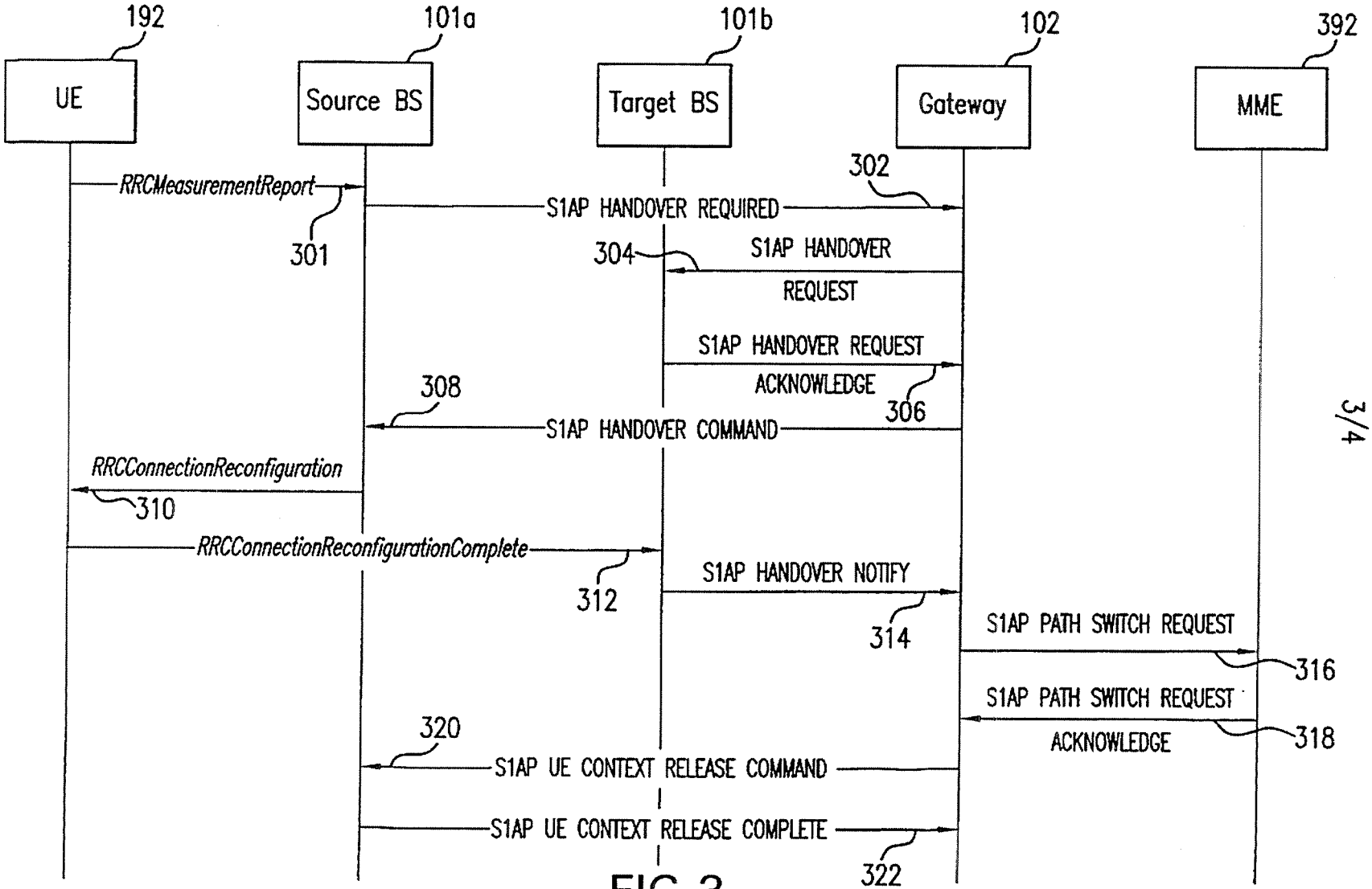

192
UE
101a
Source BS
101b
Target BS
102
Gateway
392
MME
RRCMeasurementReport
301
302
S1AP HANDOVER REQUIRED
304
S1AP HANDOVER
REQUEST
S1AP HANDOVER REQUEST
ACKNOWLEDGE
306
308
S1AP HANDOVER COMMAND
RRCConnectionReconfiguration
310
RRCConnectionReconfigurationComplete
312
S1AP HANDOVER NOTIFY
314
S1AP PATH SWITCH REQUEST
316
S1AP PATH SWITCH REQUEST
ACKNOWLEDGE
318
320
S1AP UE CONTEXT RELEASE COMMAND
S1AP UE CONTEXT RELEASE COMPLETE
322

FIG.3

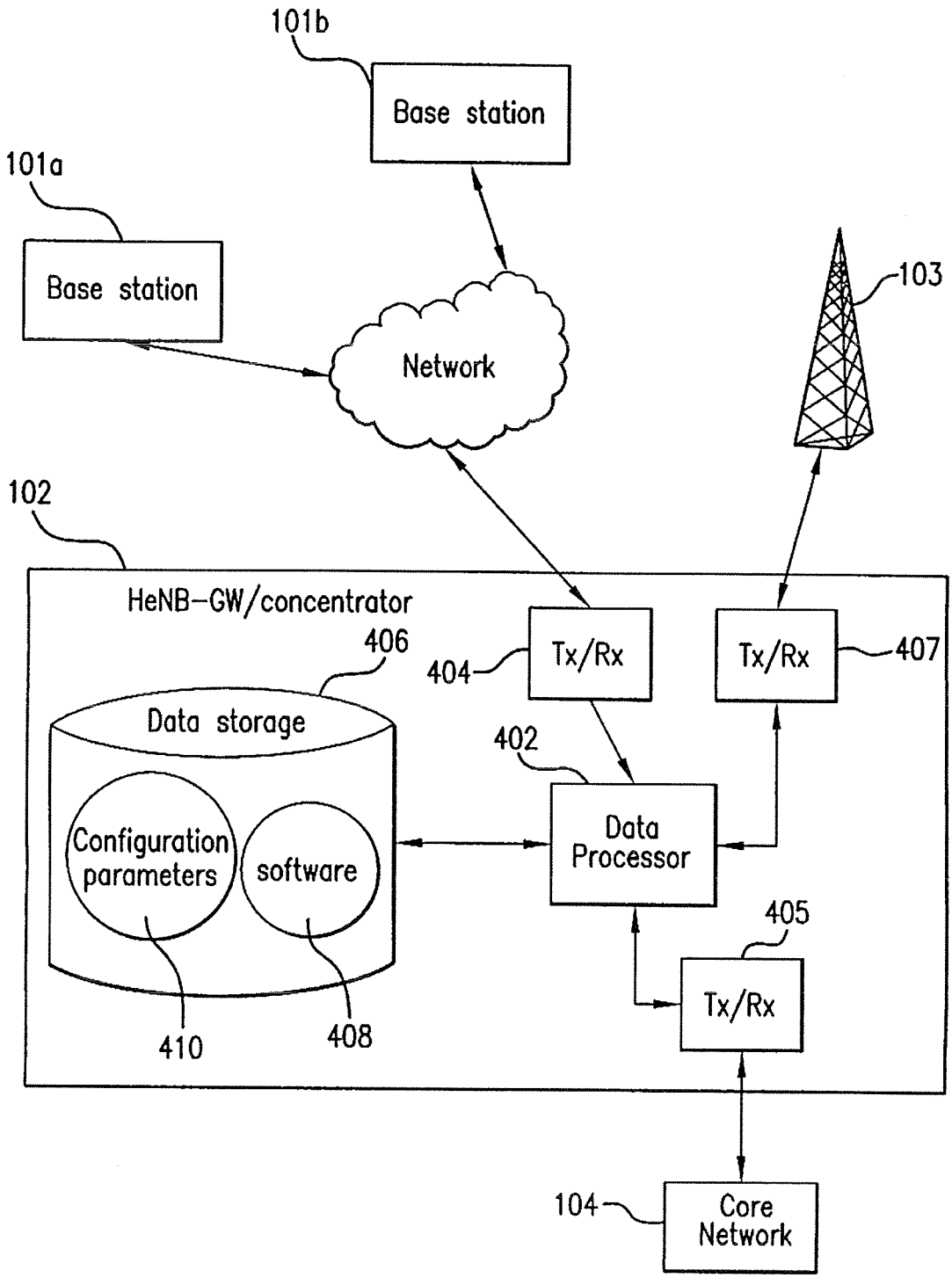

101b
Base station
101a
Base station
Network
103
102
HeNB–GW/concentrator
406
Data storage
Configuration parameters
software
410
408
404
Tx/Rx
Tx/Rx
407
402
Data Processor
405
Tx/Rx
104
Core Network

FIG.4