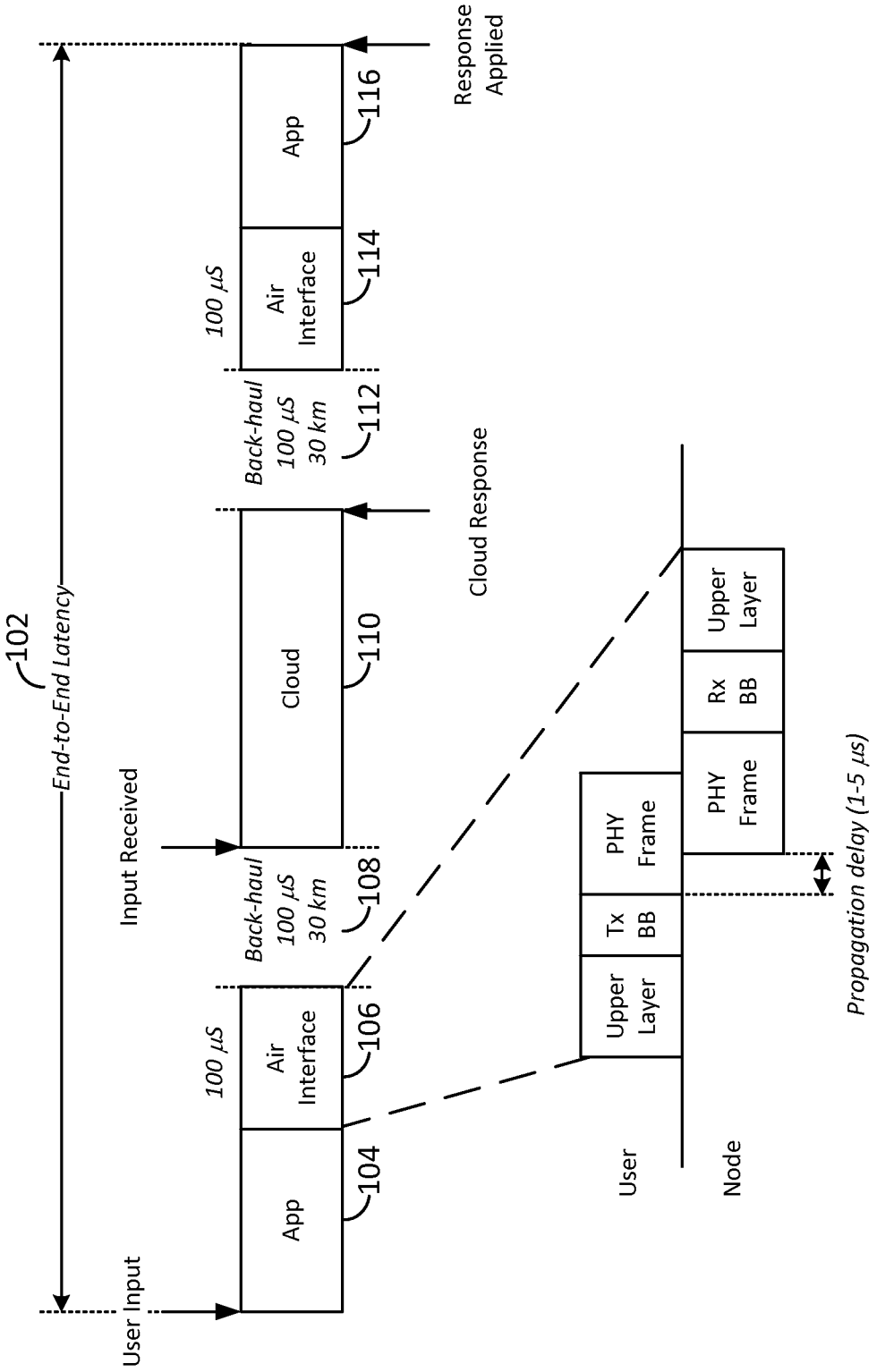
102
End-to-End Latency
User Input
App
104
100 µS
Air Interface
106
Back-haul
100 µS
30 km
108
Input Received
Cloud
110
Cloud Response
Back-haul
100 µS
30 km
112
100 µS
Air Interface
114
App
116
Response Applied
User
Upper Layer
Tx BB
PHY Frame
Node
PHY Frame
Rx BB
Upper Layer
Propagation delay (1-5 µs)

FIG. 1

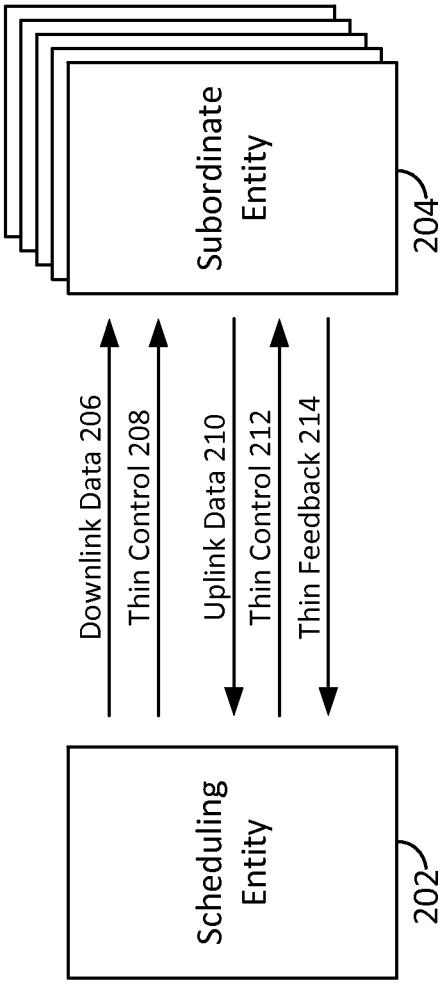
Subordinate Entity
204
Downlink Data 206
Thin Control 208
Uplink Data 210
Thin Control 212
Thin Feedback 214
Scheduling Entity
202

FIG. 2

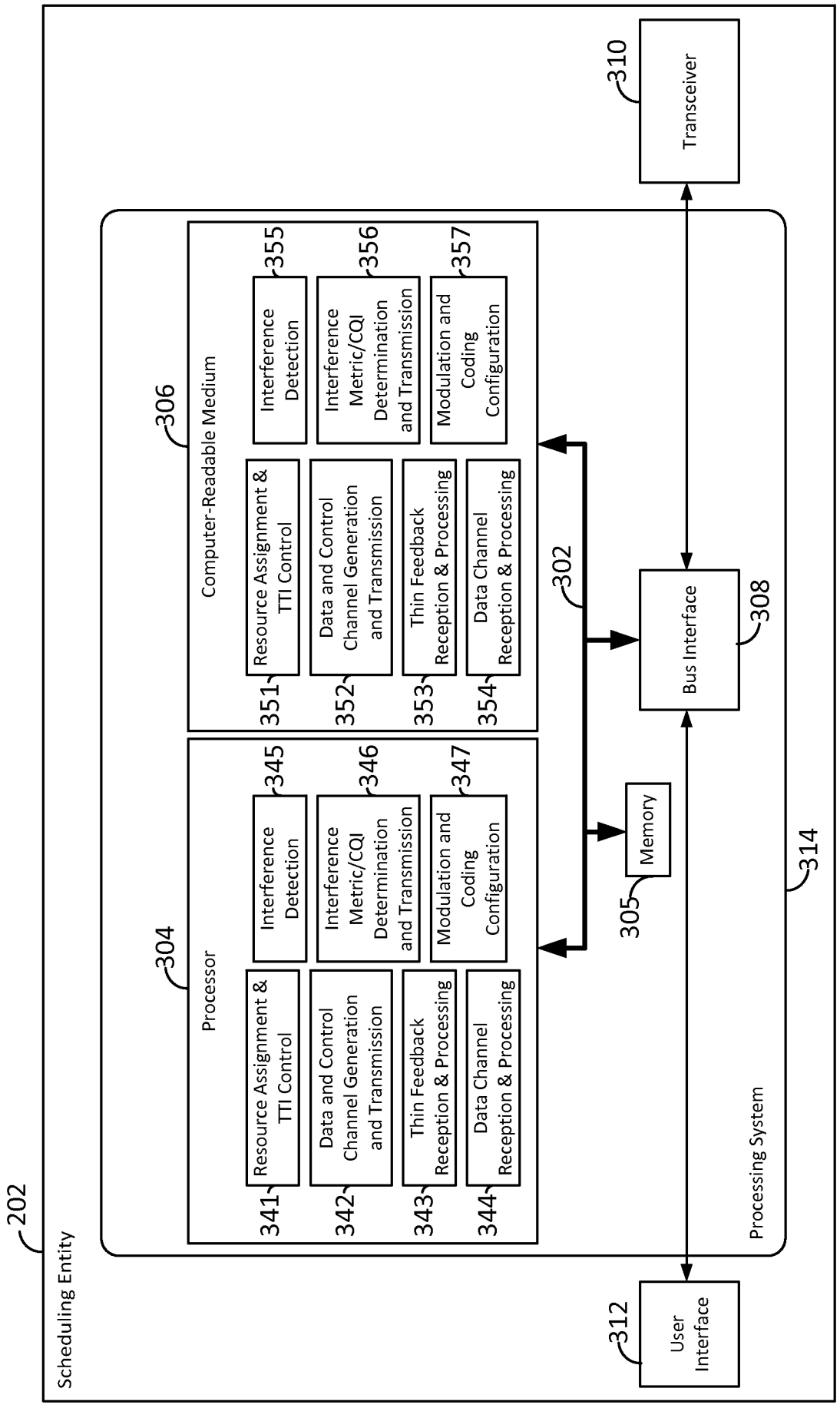
202
Scheduling Entity
Processing System
314
Transceiver
310
User Interface
312
Bus Interface
308
302
Memory
305
Processor
304
Resource Assignment & TTI Control
341
Data and Control Channel Generation and Transmission
342
Thin Feedback Reception & Processing
343
Data Channel Reception & Processing
344
Interference Detection
345
Interference Metric/CQI Determination and Transmission
346
Modulation and Coding Configuration
347
Computer-Readable Medium
306
Resource Assignment & TTI Control
351
Data and Control Channel Generation and Transmission
352
Thin Feedback Reception & Processing
353
Data Channel Reception & Processing
354
Interference Detection
355
Interference Metric/CQI Determination and Transmission
356
Modulation and Coding Configuration
357

FIG. 3

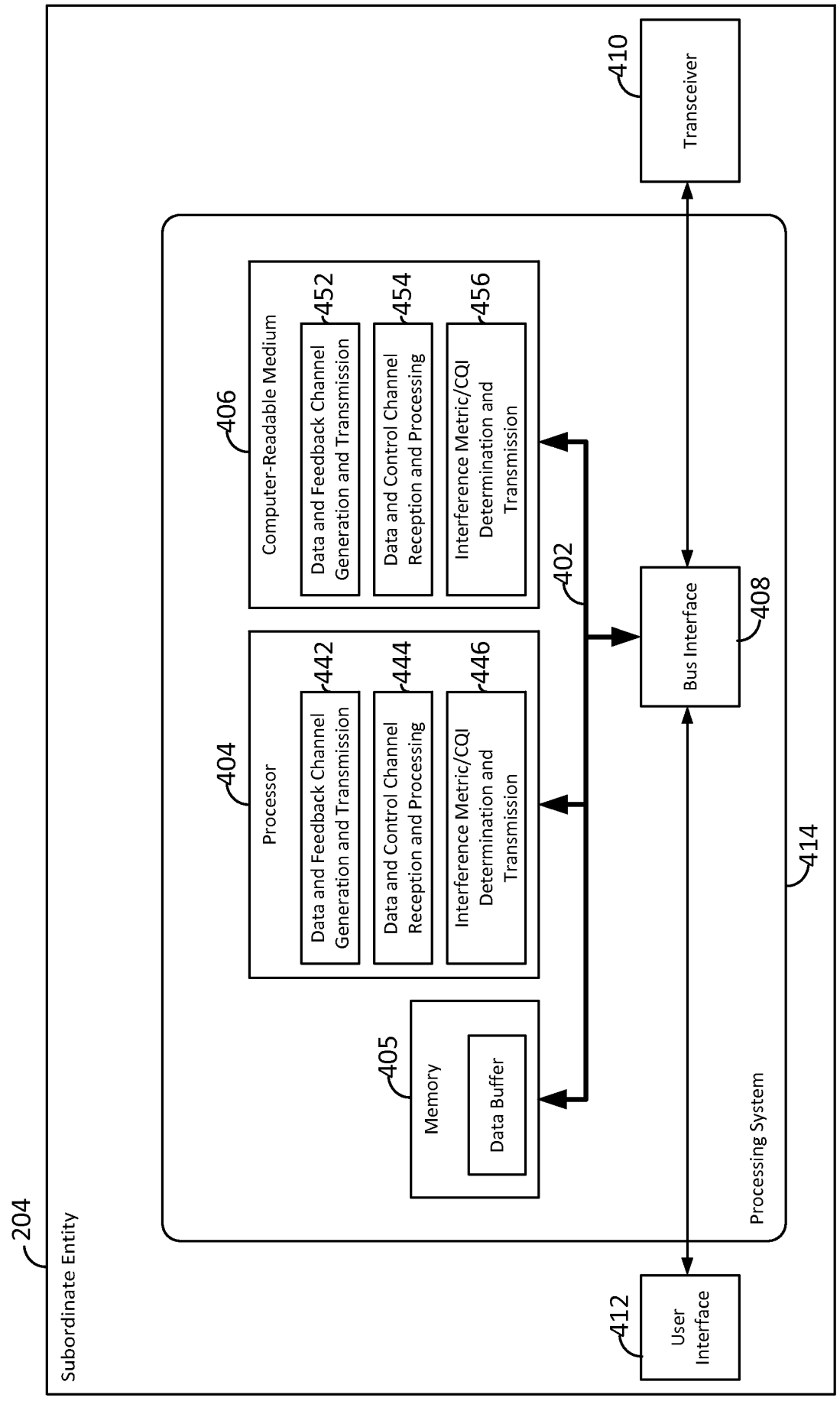
204
Subordinate Entity
410
Transceiver
406
Computer-Readable Medium
452
Data and Feedback Channel Generation and Transmission
454
Data and Control Channel Reception and Processing
456
Interference Metric/CQI Determination and Transmission
402
404
Processor
442
Data and Feedback Channel Generation and Transmission
444
Data and Control Channel Reception and Processing
446
Interference Metric/CQI Determination and Transmission
408
Bus Interface
405
Memory
Data Buffer
414
Processing System
412
User Interface

FIG. 4

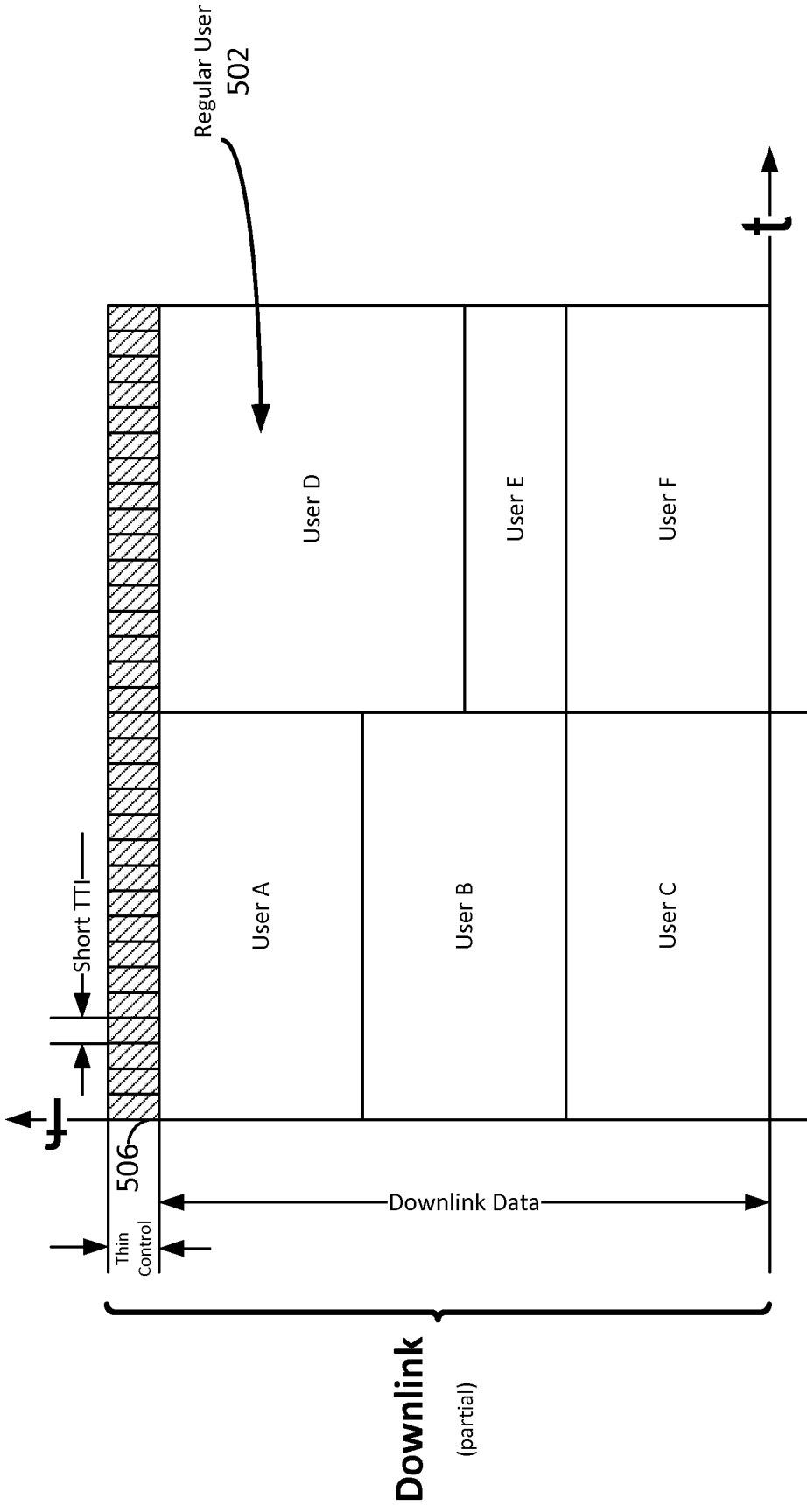

FIG. 5
DL Channel Structure

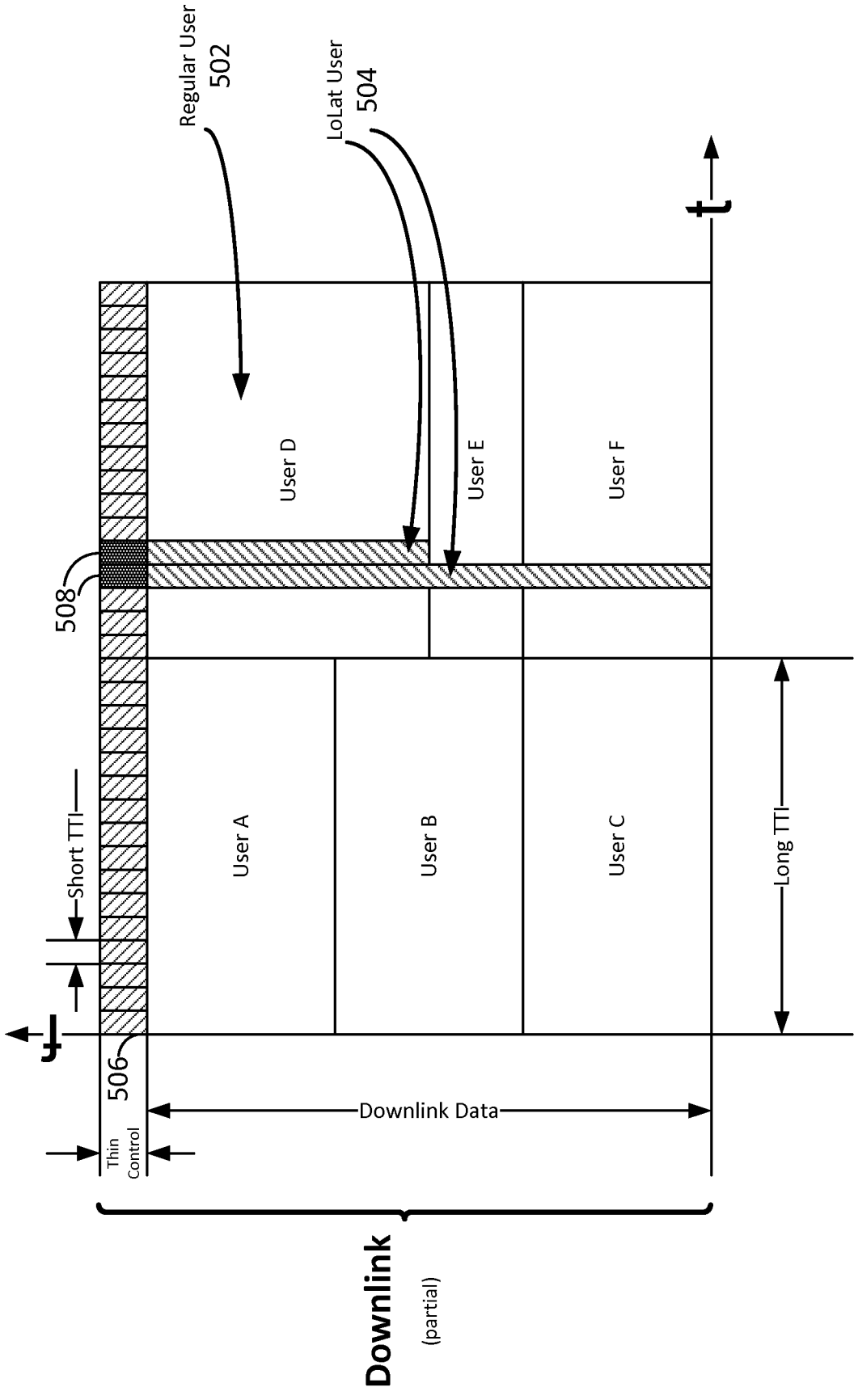

FIG. 6
DL/DL Multiplexing

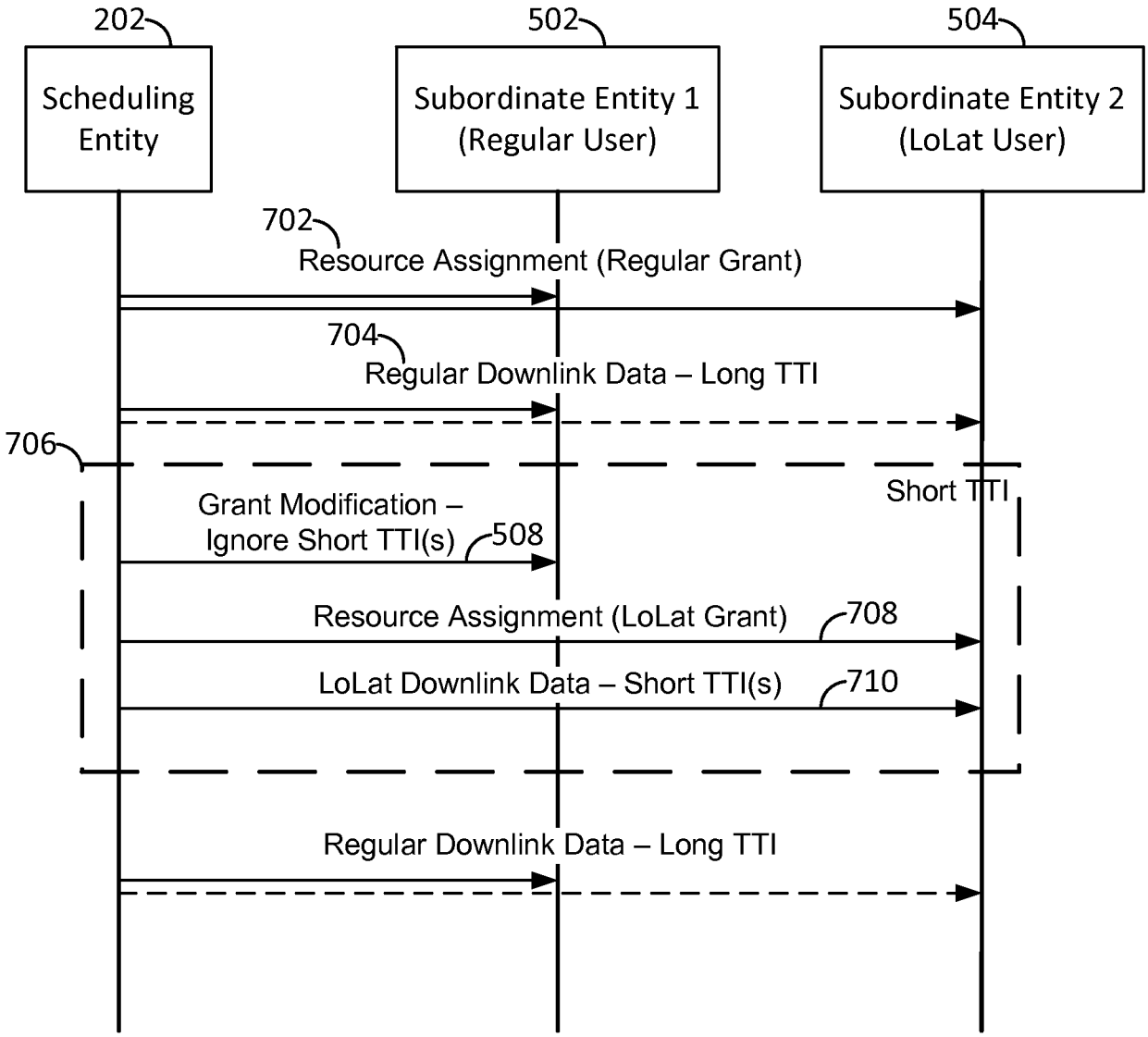

FIG. 7
DL/DL Multiplexing

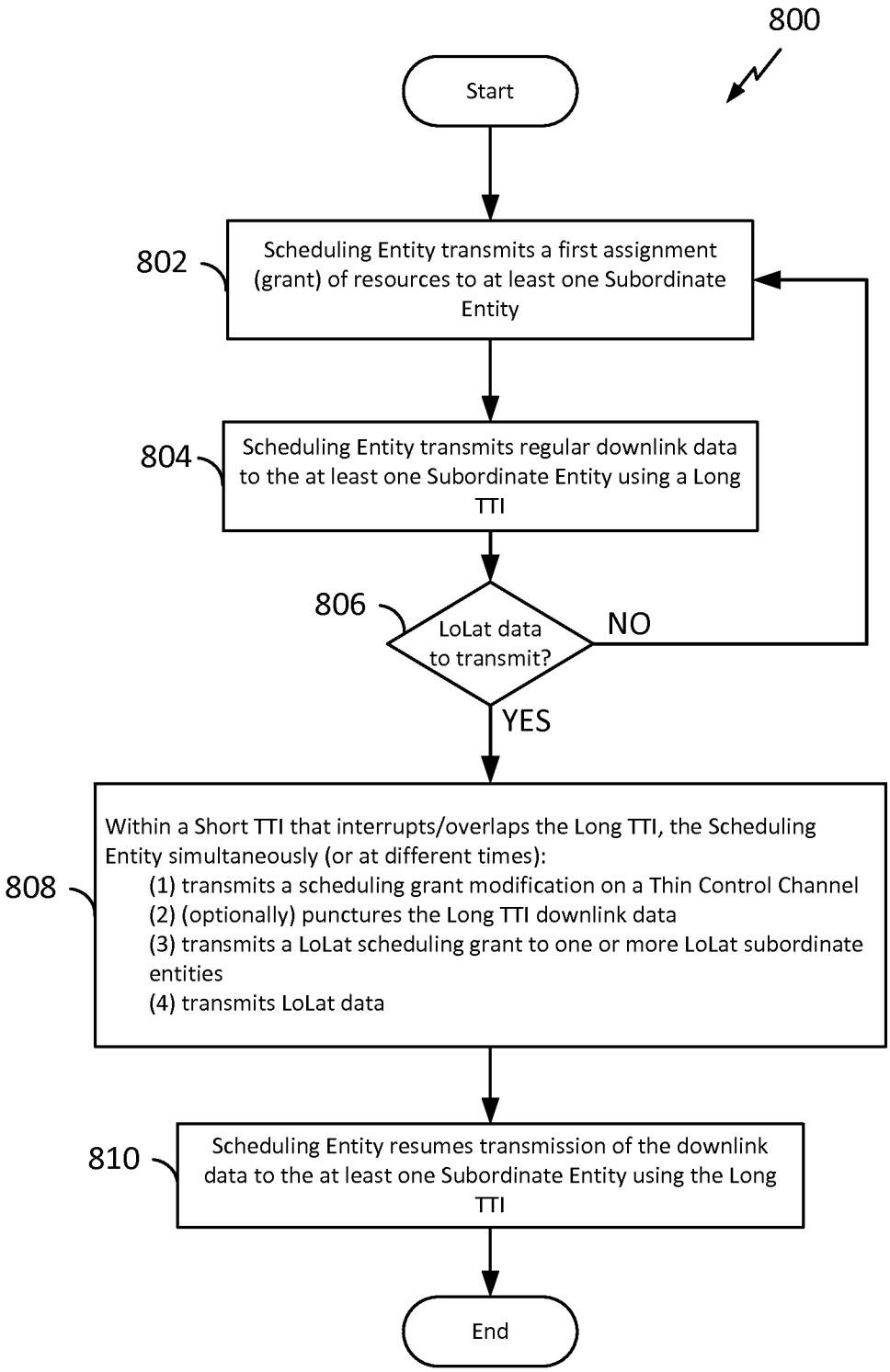

FIG. 8
DL/DL Multiplexing,
Scheduling Entity POV

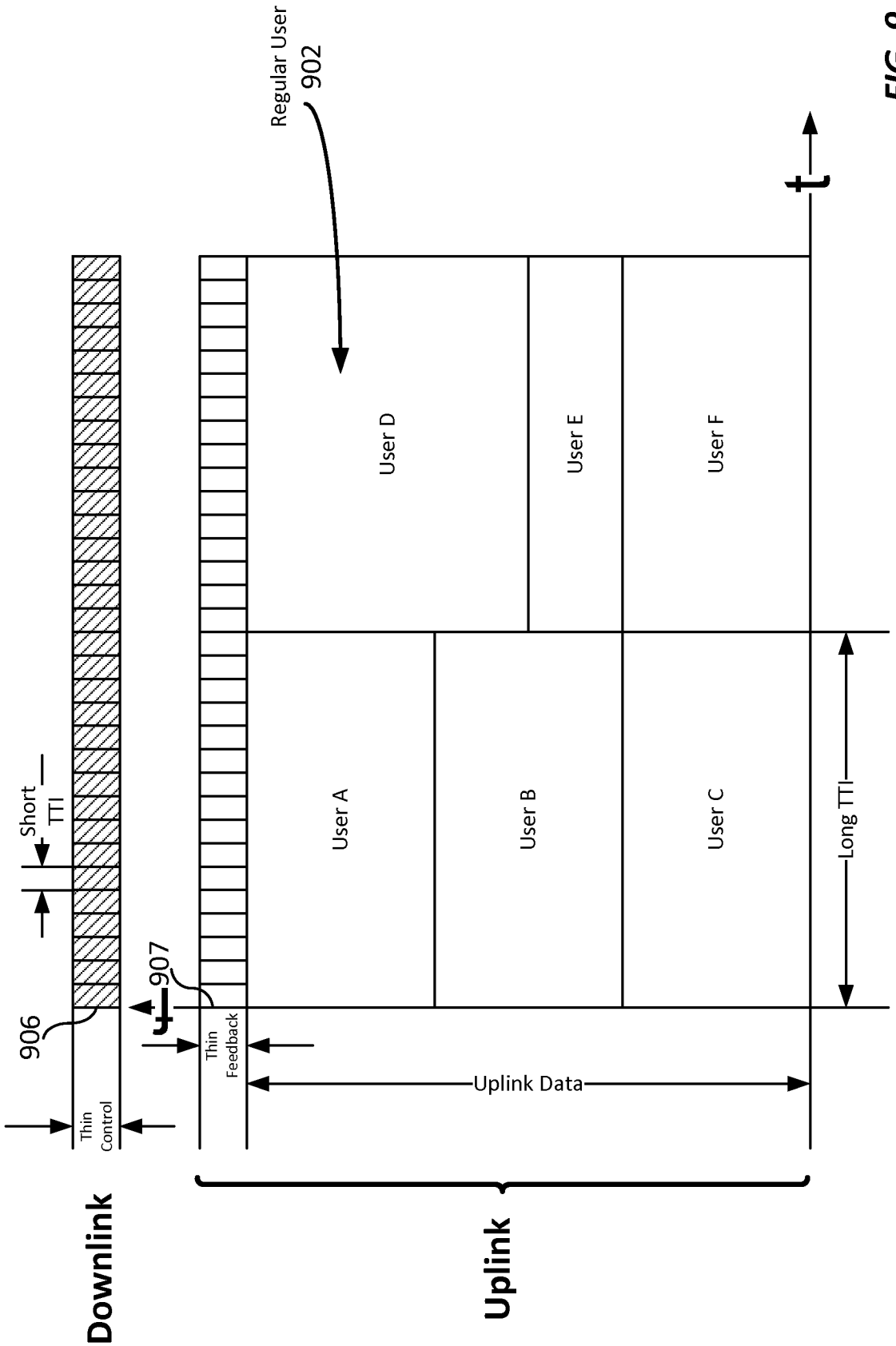

FIG. 9
UL Channel Structure

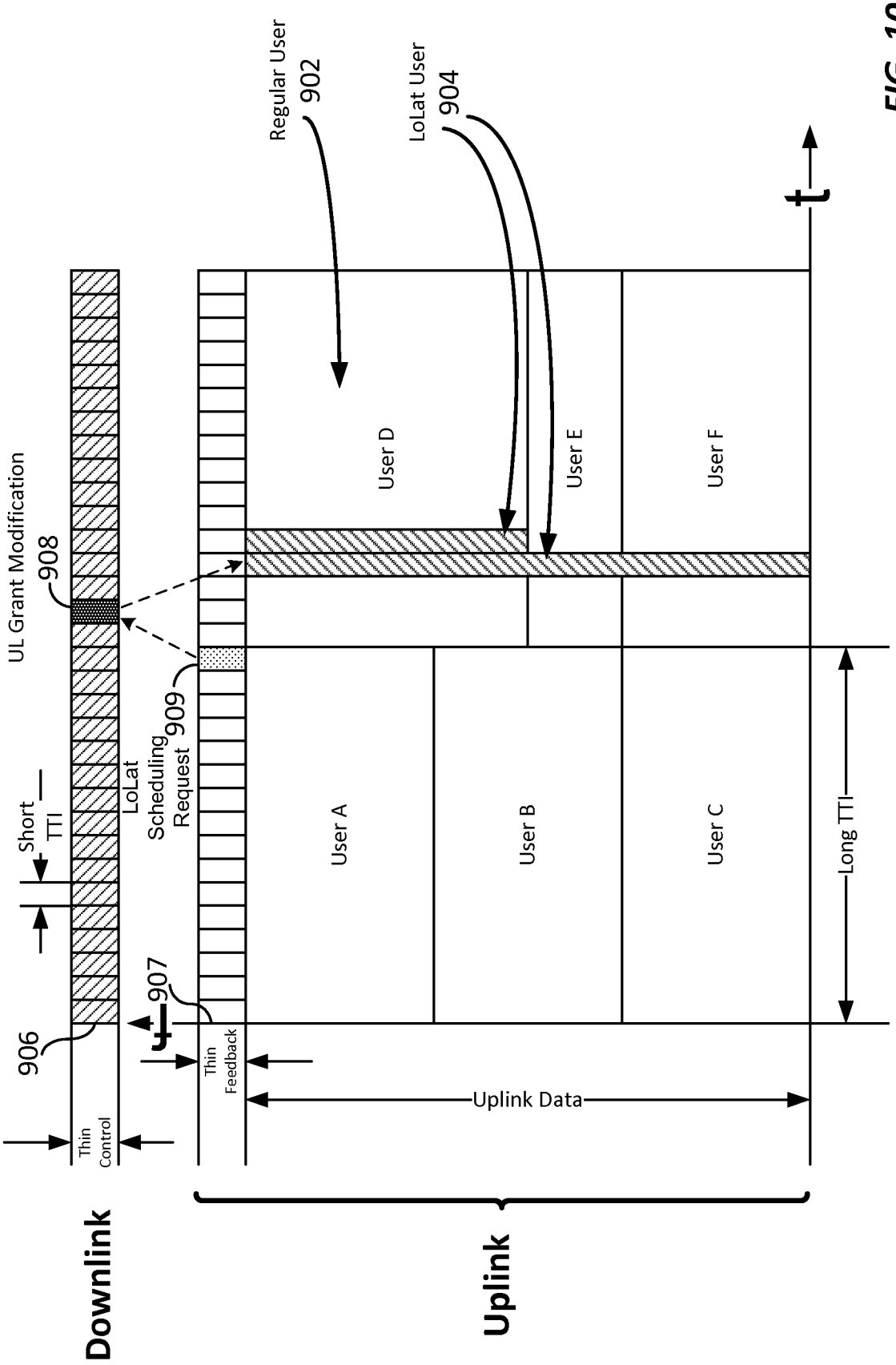

FIG. 10
UL/UL Multiplexing

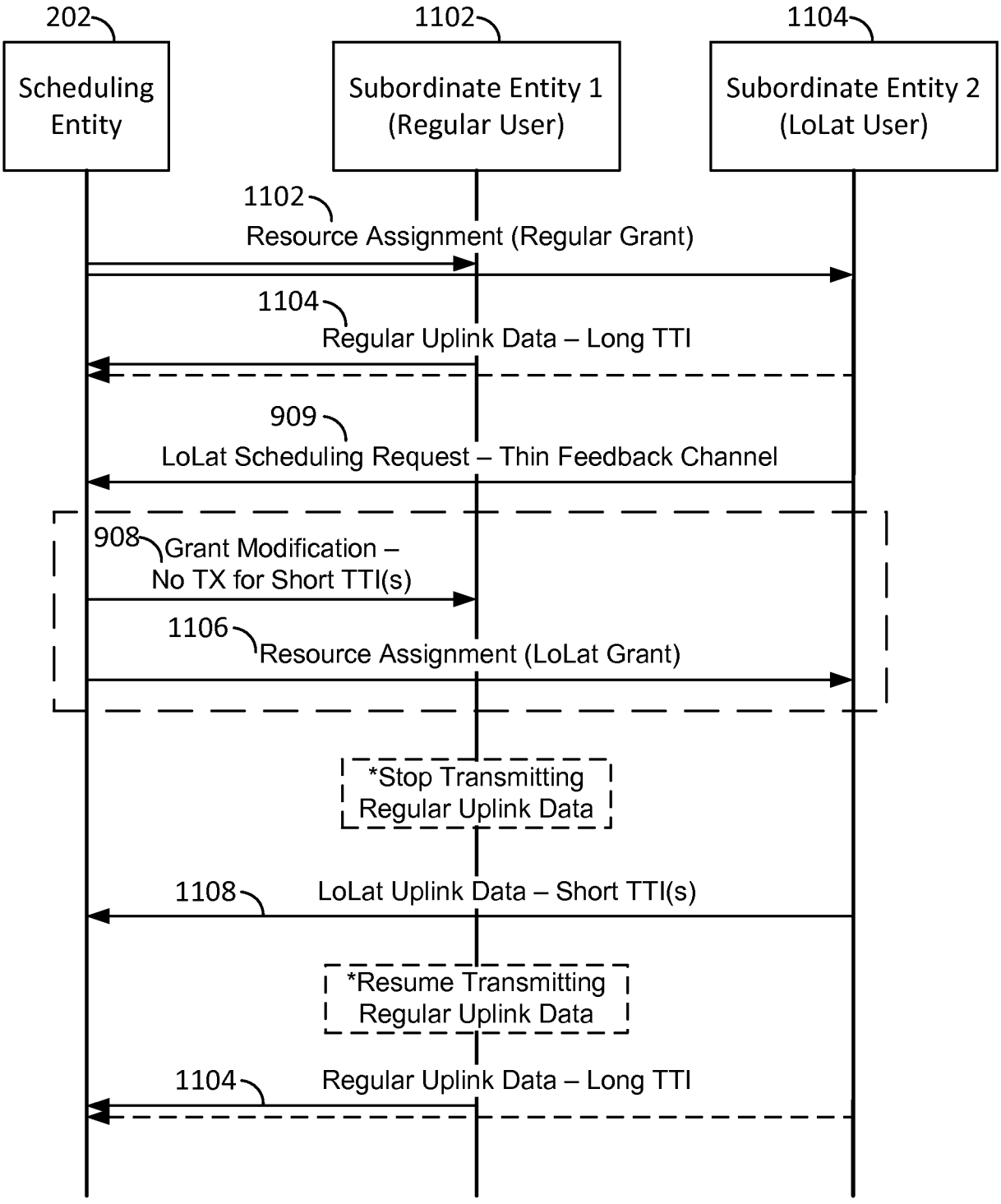

FIG. 11
UL/UL Multiplexing

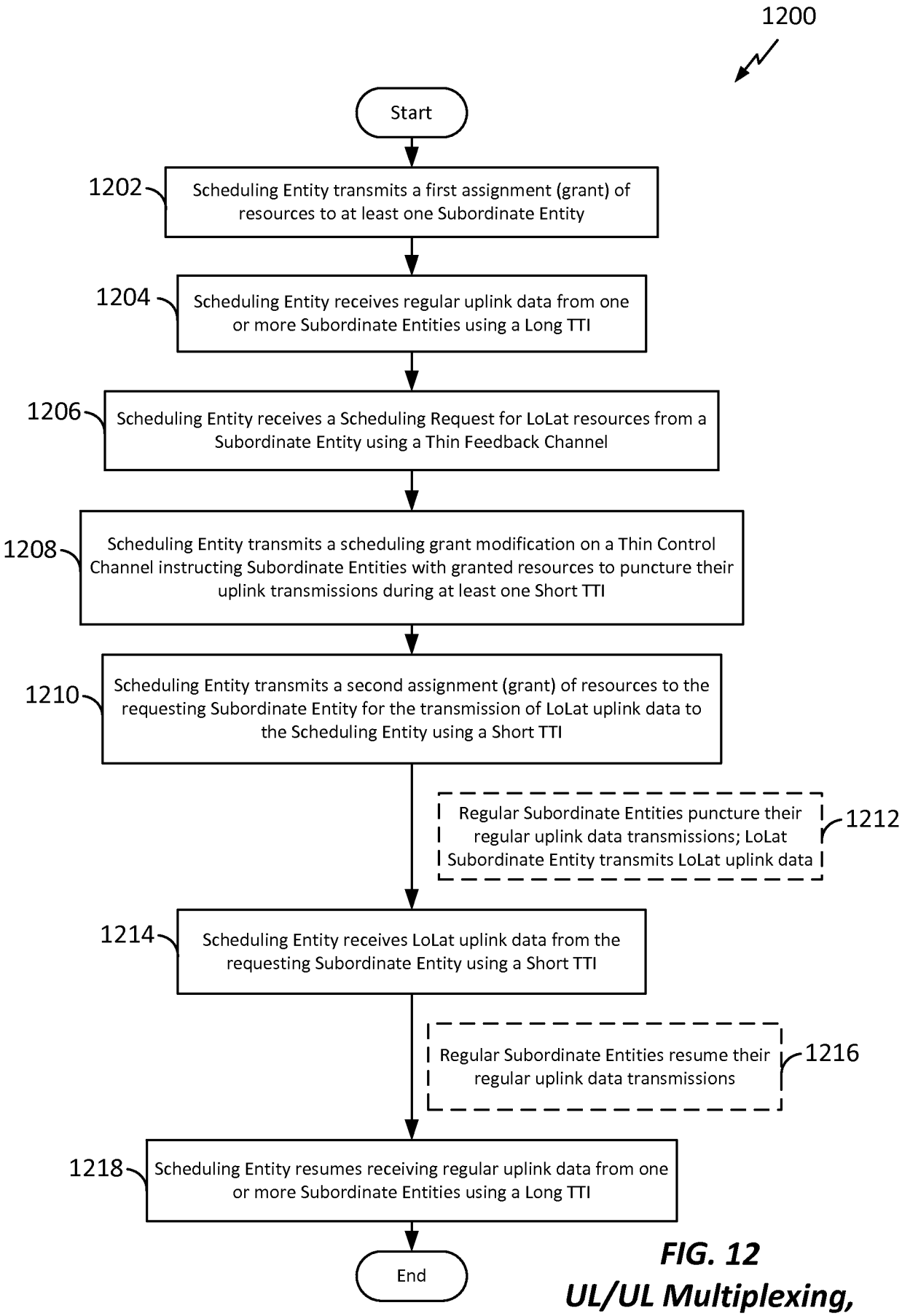

FIG. 12
UL/UL Multiplexing, Scheduling Entity POV

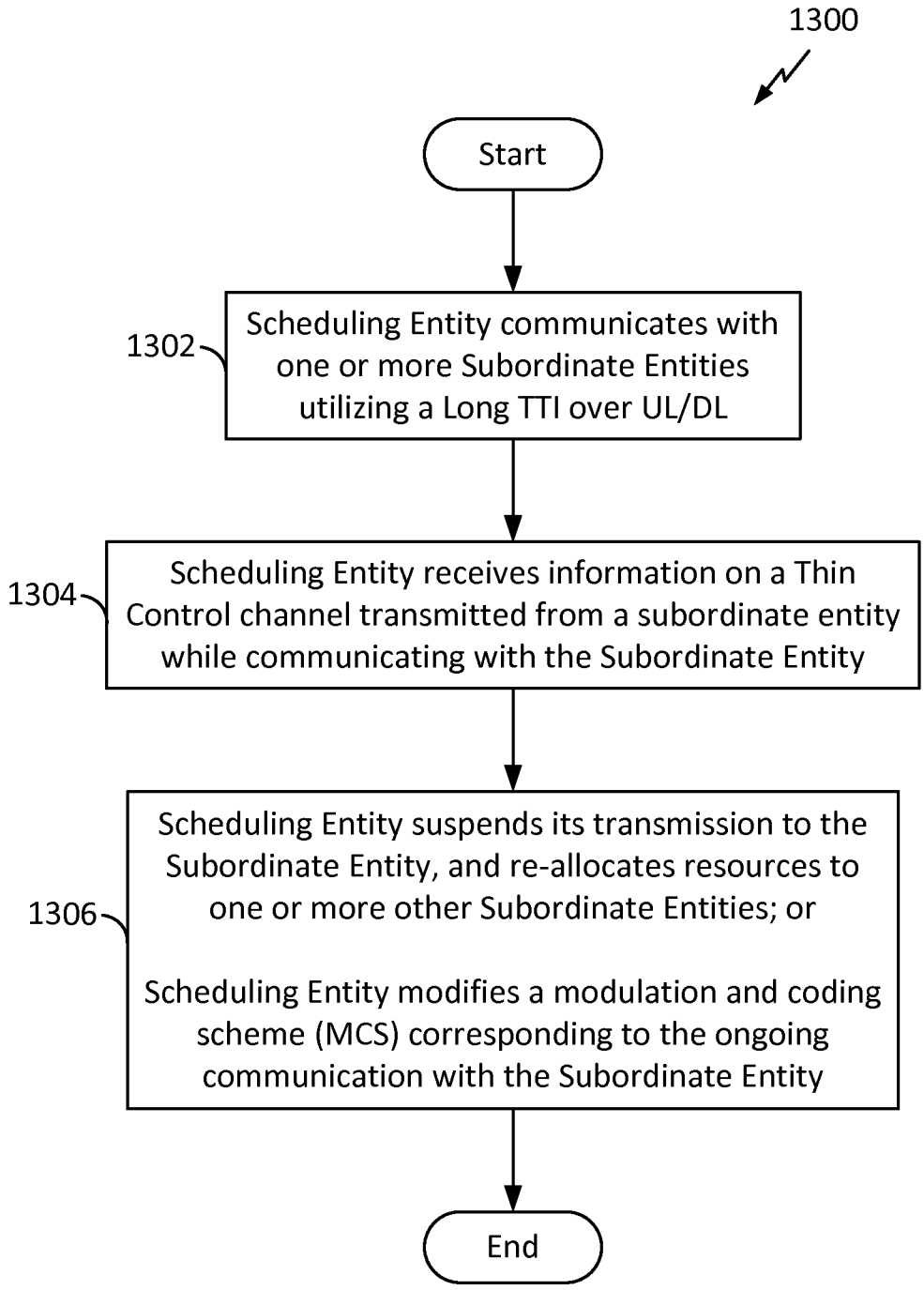

FIG. 13
Interference Management