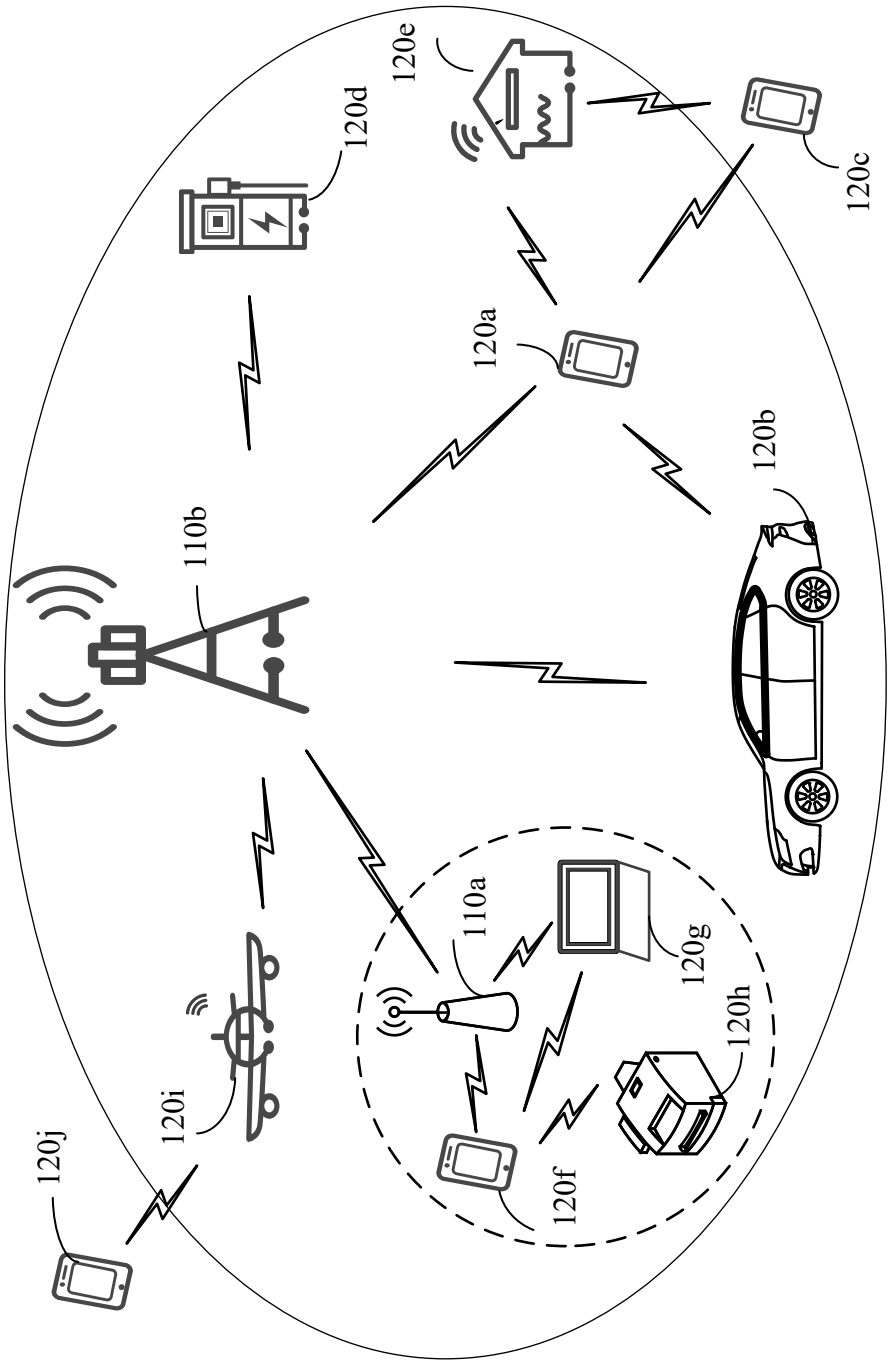

100
120e
120d
120c
120a
120b
110b
110a
120g
120h
120f
120i
120j

FIG. 1

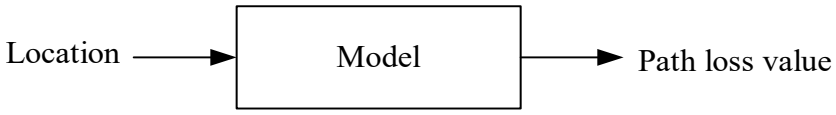

Location
Model
Path loss value

FIG. 2

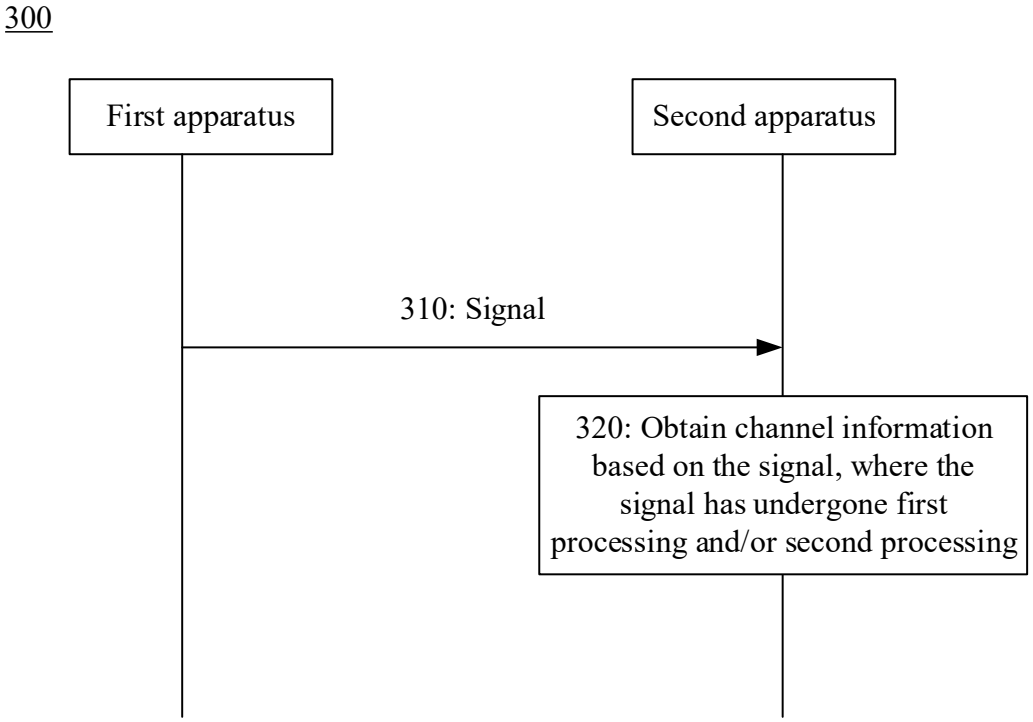

300
First apparatus
Second apparatus
310: Signal
320: Obtain channel information based on the signal, where the signal has undergone first processing and/or second processing

FIG. 3

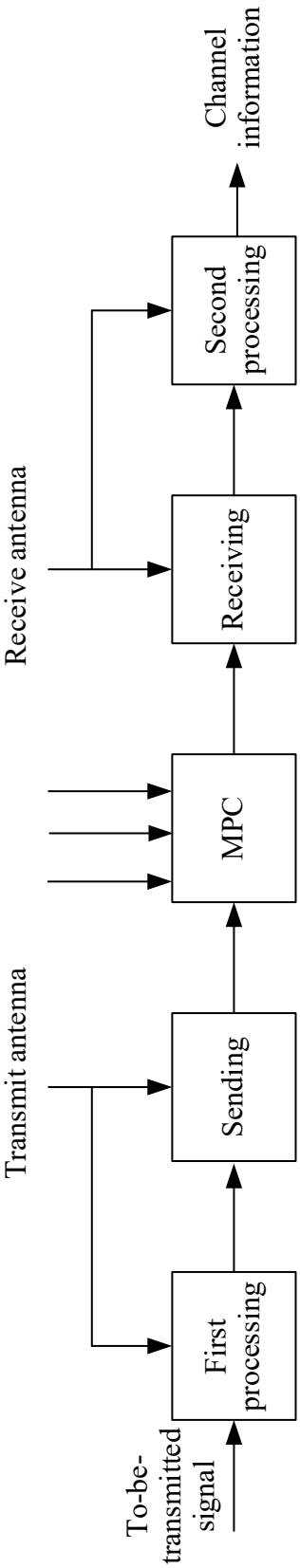

To-be-transmitted signal
First processing
Transmit antenna
Sending
MPC
Receive antenna
Receiving
Second processing
Channel information

FIG. 4

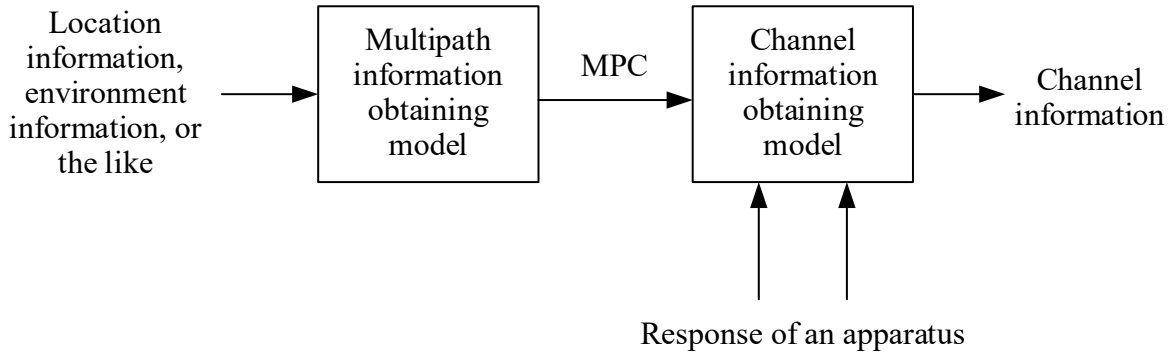

Location information, environment information, or the like
Multipath information obtaining model
MPC
Channel information obtaining model
Channel information
Response of an apparatus

FIG. 5

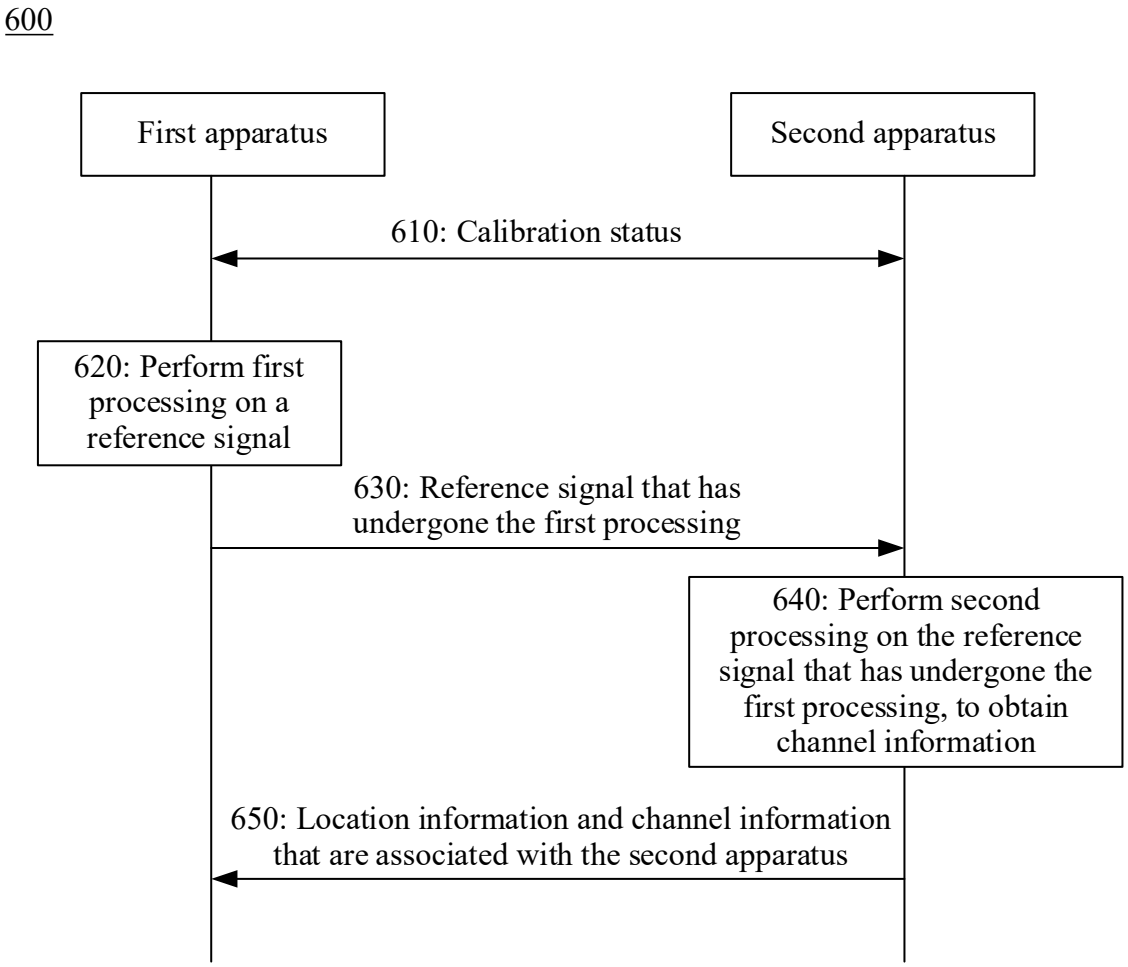

600
First apparatus
Second apparatus
610: Calibration status
620: Perform first processing on a reference signal
630: Reference signal that has undergone the first processing
640: Perform second processing on the reference signal that has undergone the first processing, to obtain channel information
650: Location information and channel information that are associated with the second apparatus

FIG. 6

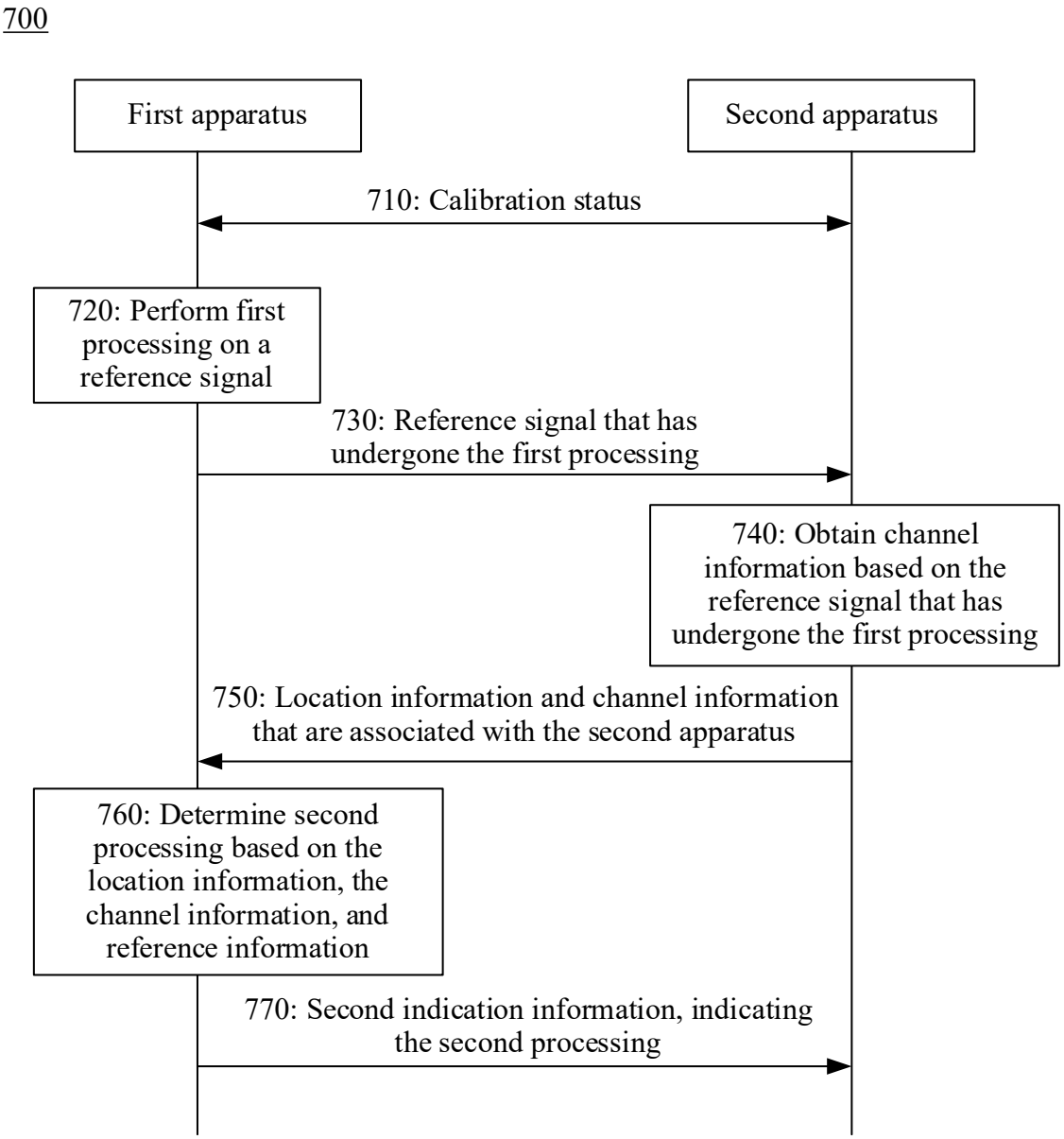

700
First apparatus
Second apparatus
710: Calibration status
720: Perform first processing on a reference signal
730: Reference signal that has undergone the first processing
740: Obtain channel information based on the reference signal that has undergone the first processing
750: Location information and channel information that are associated with the second apparatus
760: Determine second processing based on the location information, the channel information, and reference information
770: Second indication information, indicating the second processing

FIG. 7

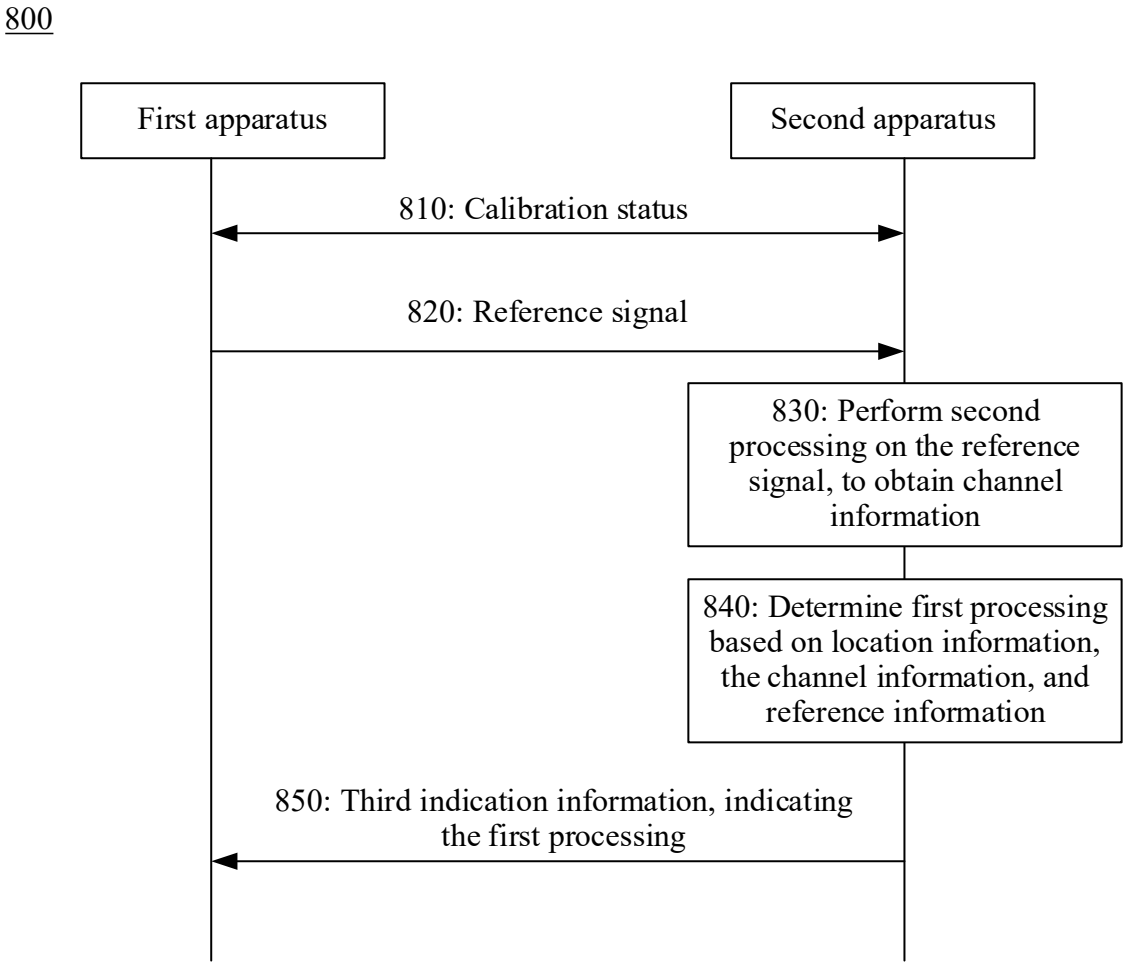

800
First apparatus
Second apparatus
810: Calibration status
820: Reference signal
830: Perform second processing on the reference signal, to obtain channel information
840: Determine first processing based on location information, the channel information, and reference information
850: Third indication information, indicating the first processing

FIG. 8

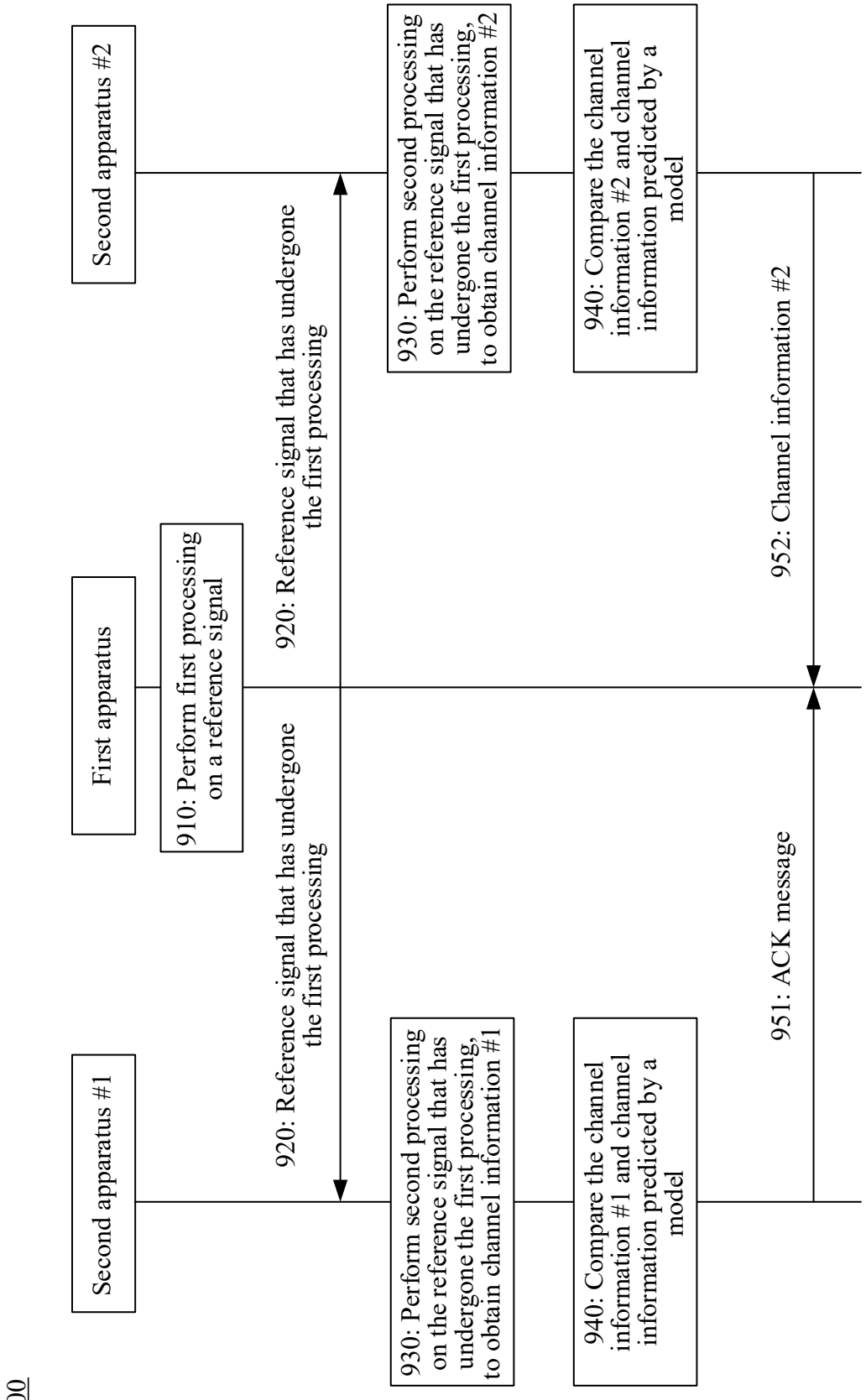

900
Second apparatus #1
First apparatus
Second apparatus #2
910: Perform first processing on a reference signal
920: Reference signal that has undergone the first processing
920: Reference signal that has undergone the first processing
930: Perform second processing on the reference signal that has undergone the first processing, to obtain channel information #1
930: Perform second processing on the reference signal that has undergone the first processing, to obtain channel information #2
940: Compare the channel information #1 and channel information predicted by a model
940: Compare the channel information #2 and channel information predicted by a model
951: ACK message
952: Channel information #2

FIG. 9

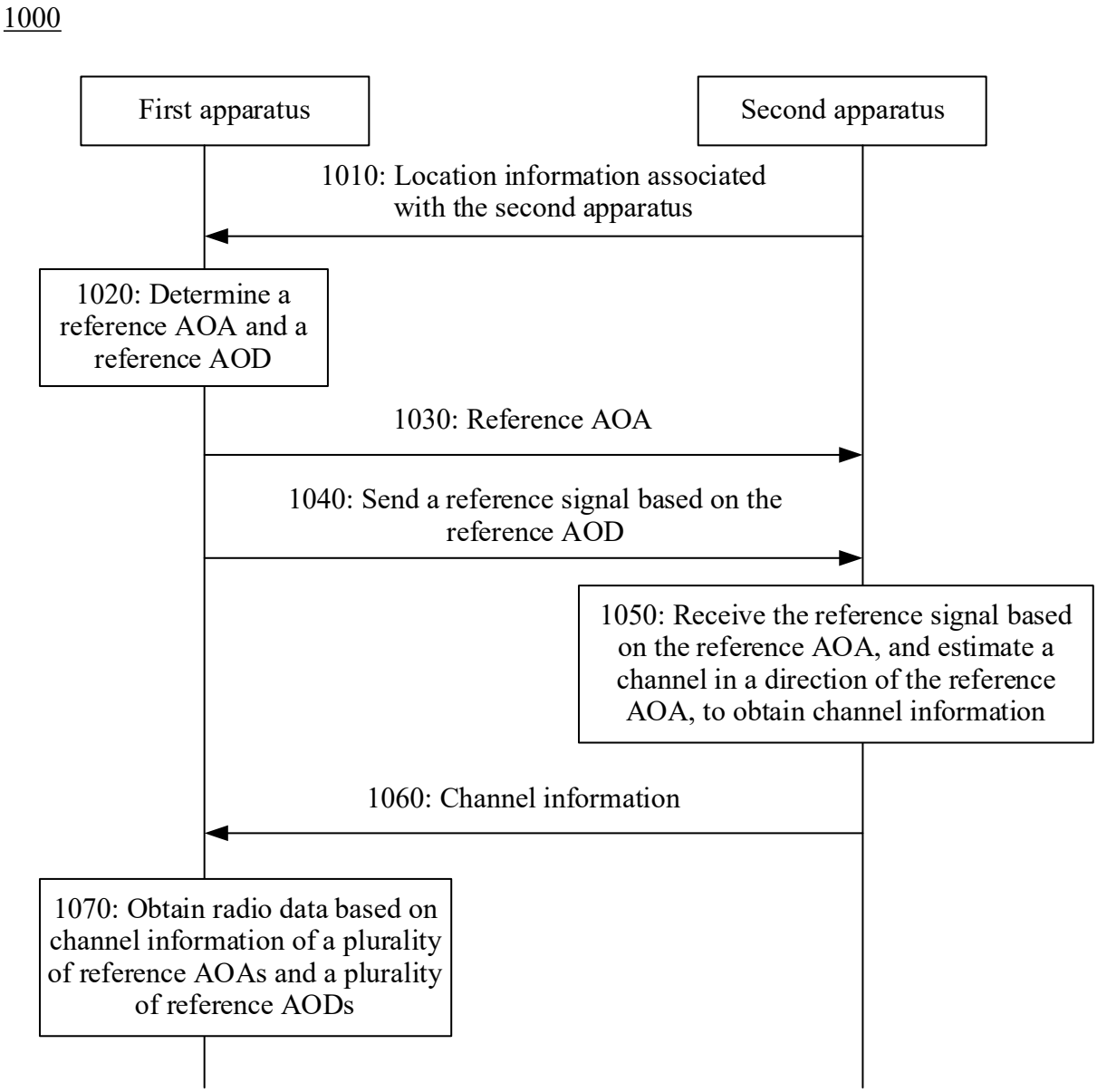

1000
First apparatus
Second apparatus
1010: Location information associated with the second apparatus
1020: Determine a reference AOA and a reference AOD
1030: Reference AOA
1040: Send a reference signal based on the reference AOD
1050: Receive the reference signal based on the reference AOA, and estimate a channel in a direction of the reference AOA, to obtain channel information
1060: Channel information
1070: Obtain radio data based on channel information of a plurality of reference AOAs and a plurality of reference AODs

FIG. 10

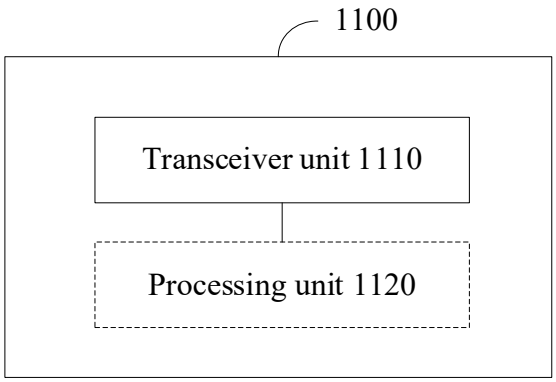

1100
Transceiver unit 1110
Processing unit 1120

FIG. 11

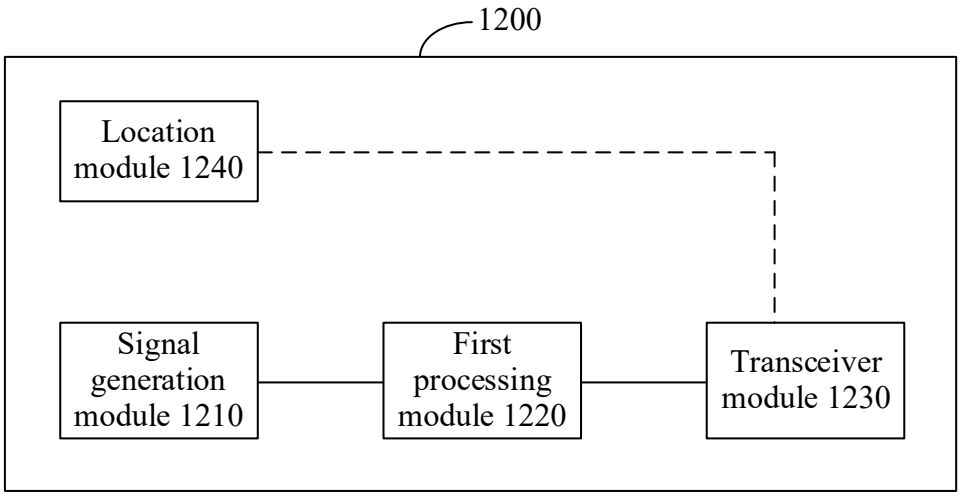

1200
Location module 1240
Signal generation module 1210
First processing module 1220
Transceiver module 1230

FIG. 12

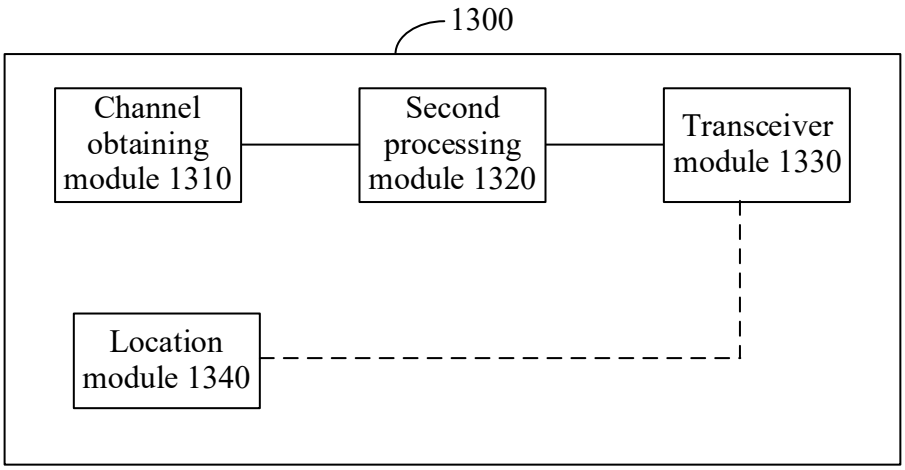

1300
Channel obtaining module 1310
Second processing module 1320
Transceiver module 1330
Location module 1340

FIG. 13

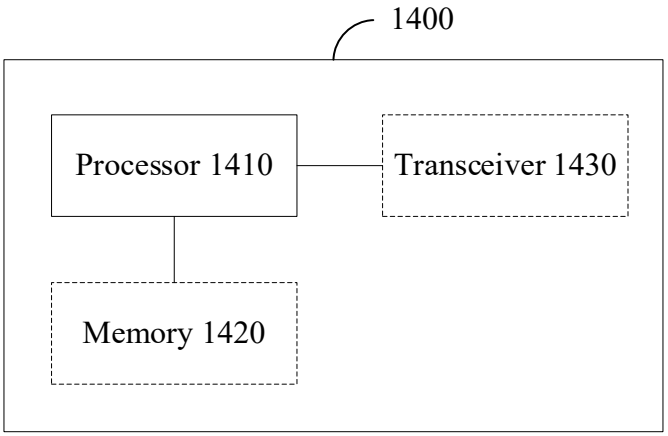

1400
Processor 1410
Transceiver 1430
Memory 1420

FIG. 14

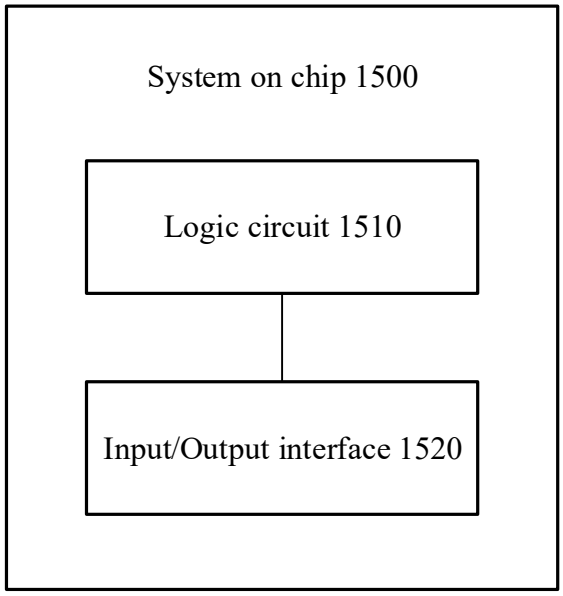

System on chip 1500
Logic circuit 1510
Input/Output interface 1520

FIG. 15