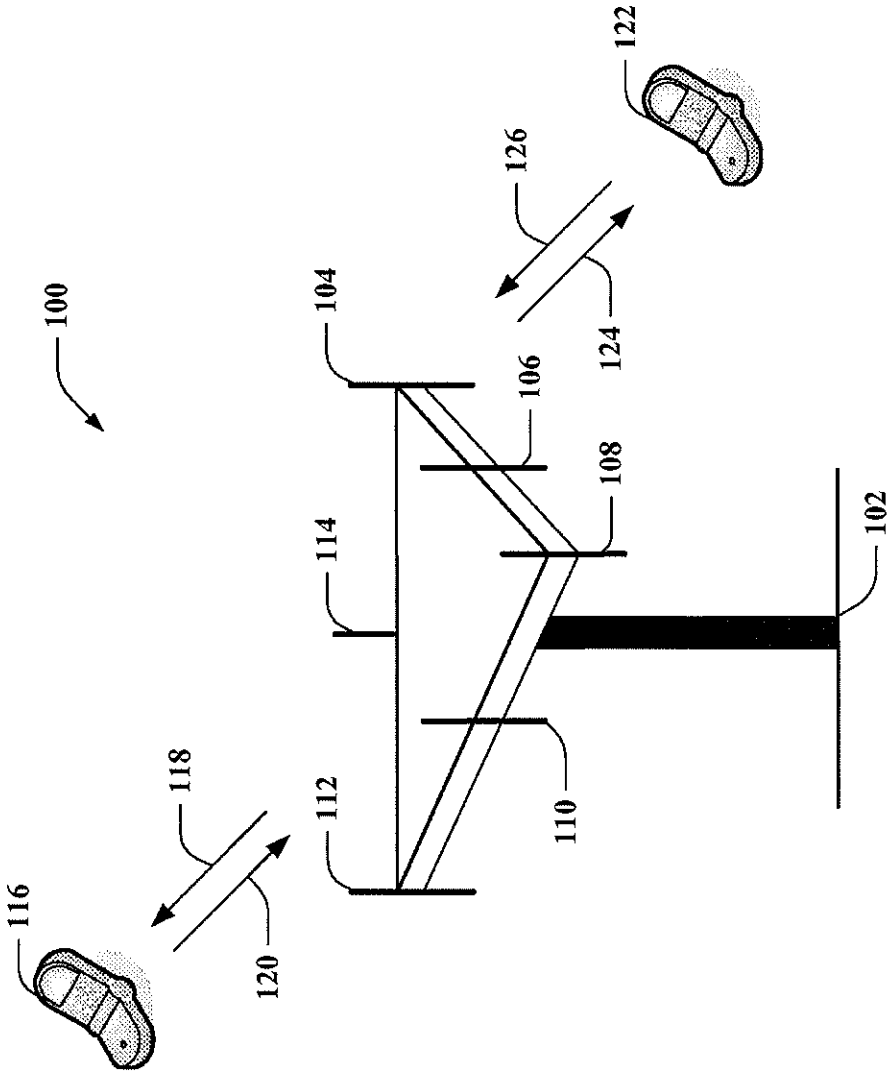


FIG. 1

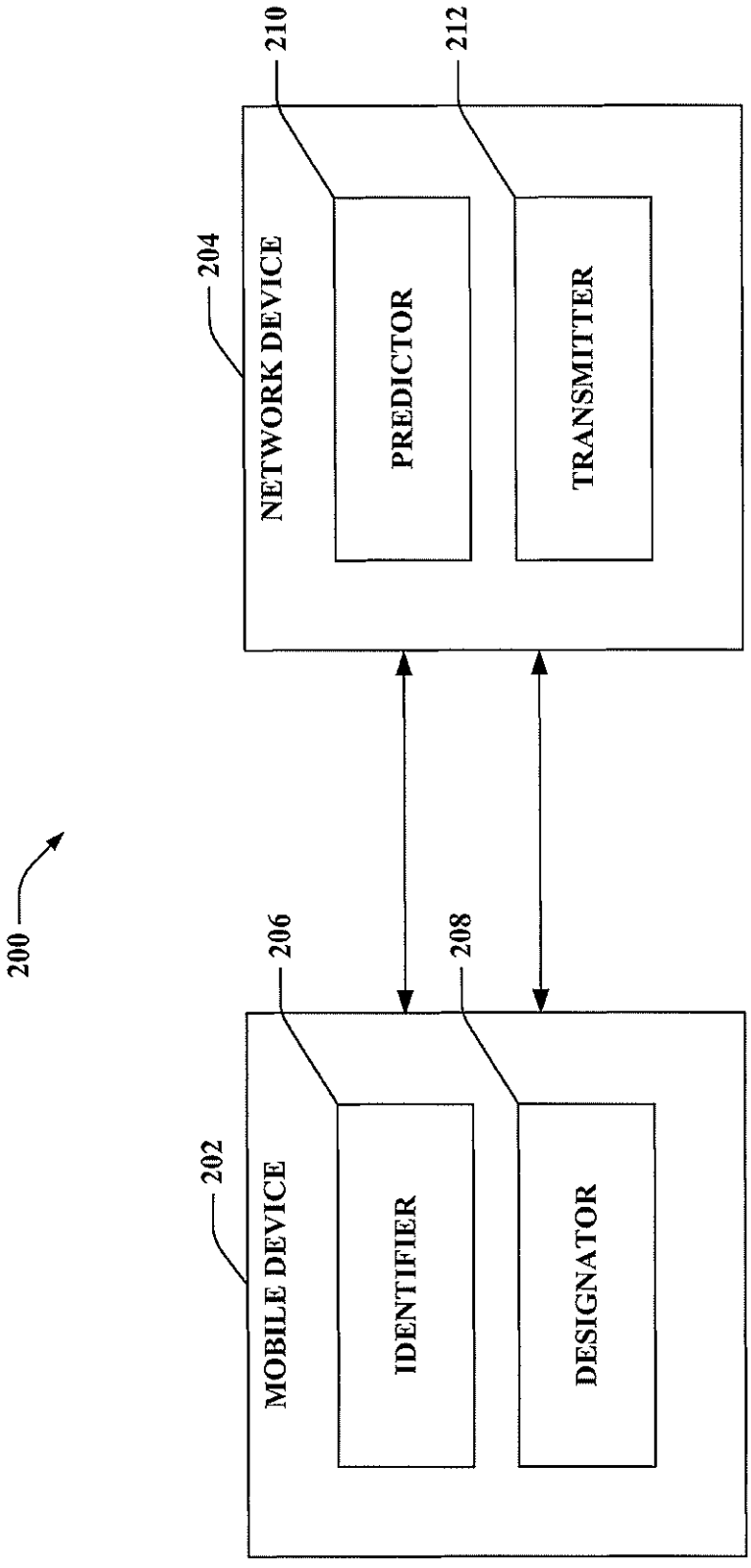

200
202
MOBILE DEVICE
IDENTIFIER
DESIGNATOR
204
NETWORK DEVICE
PREDICTOR
TRANSMITTER
206
208
210
212

FIG. 2

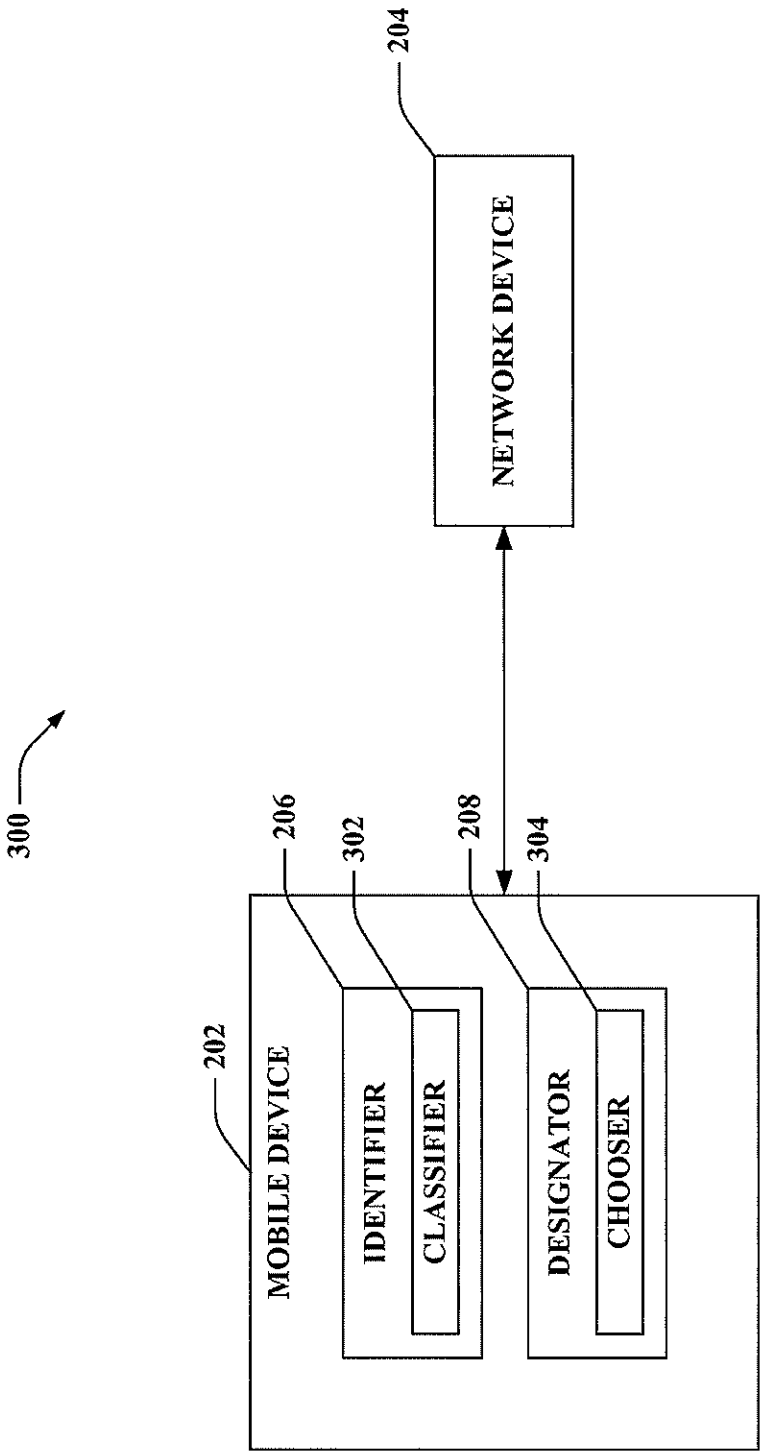

300
204
NETWORK DEVICE
206
302
208
304
202
MOBILE DEVICE
IDENTIFIER
CLASSIFIER
DESIGNATOR
CHOOSER

FIG. 3

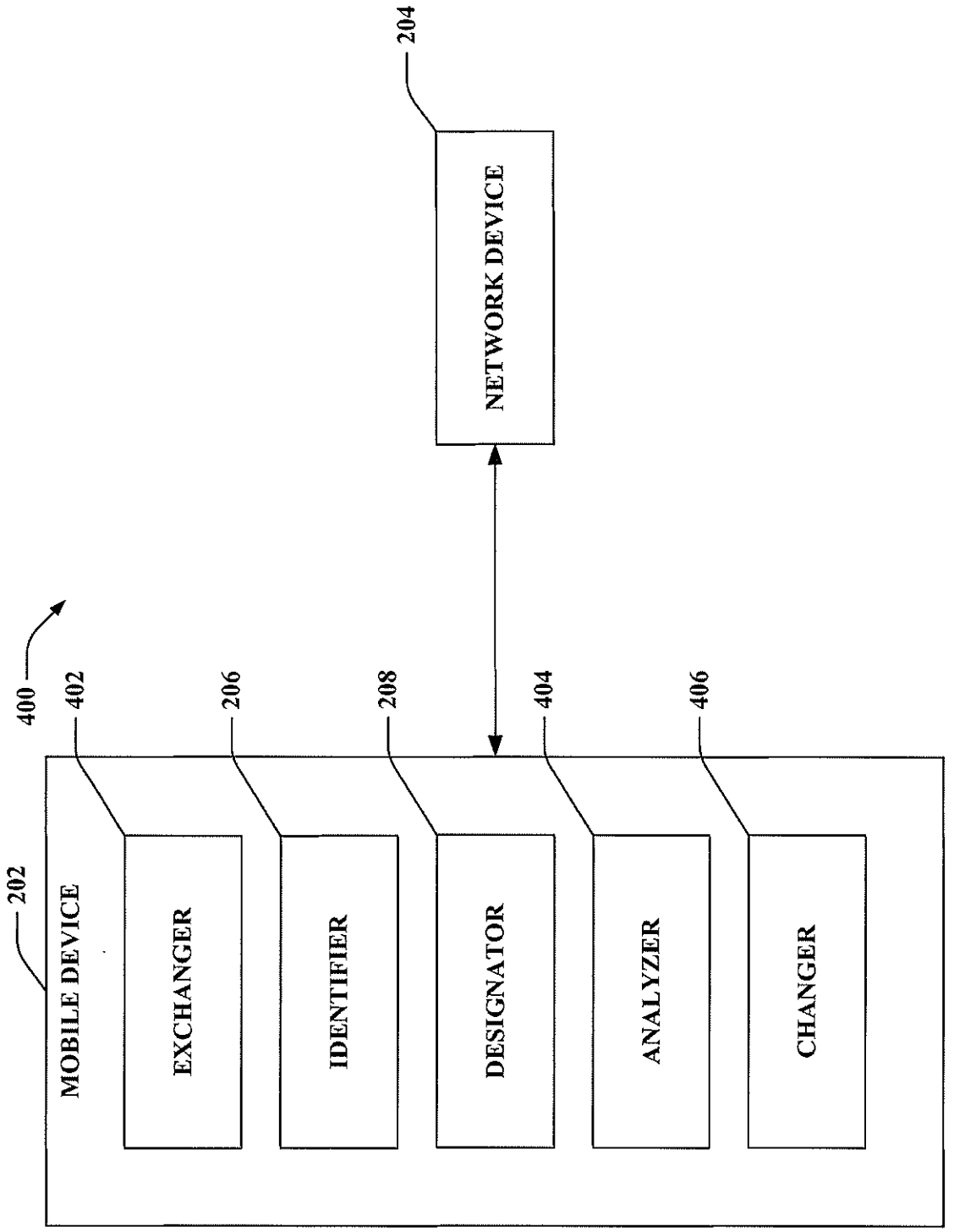

204
NETWORK DEVICE
400
402
206
208
404
406
202
MOBILE DEVICE
EXCHANGER
IDENTIFIER
DESIGNATOR
ANALYZER
CHANGER

FIG. 4

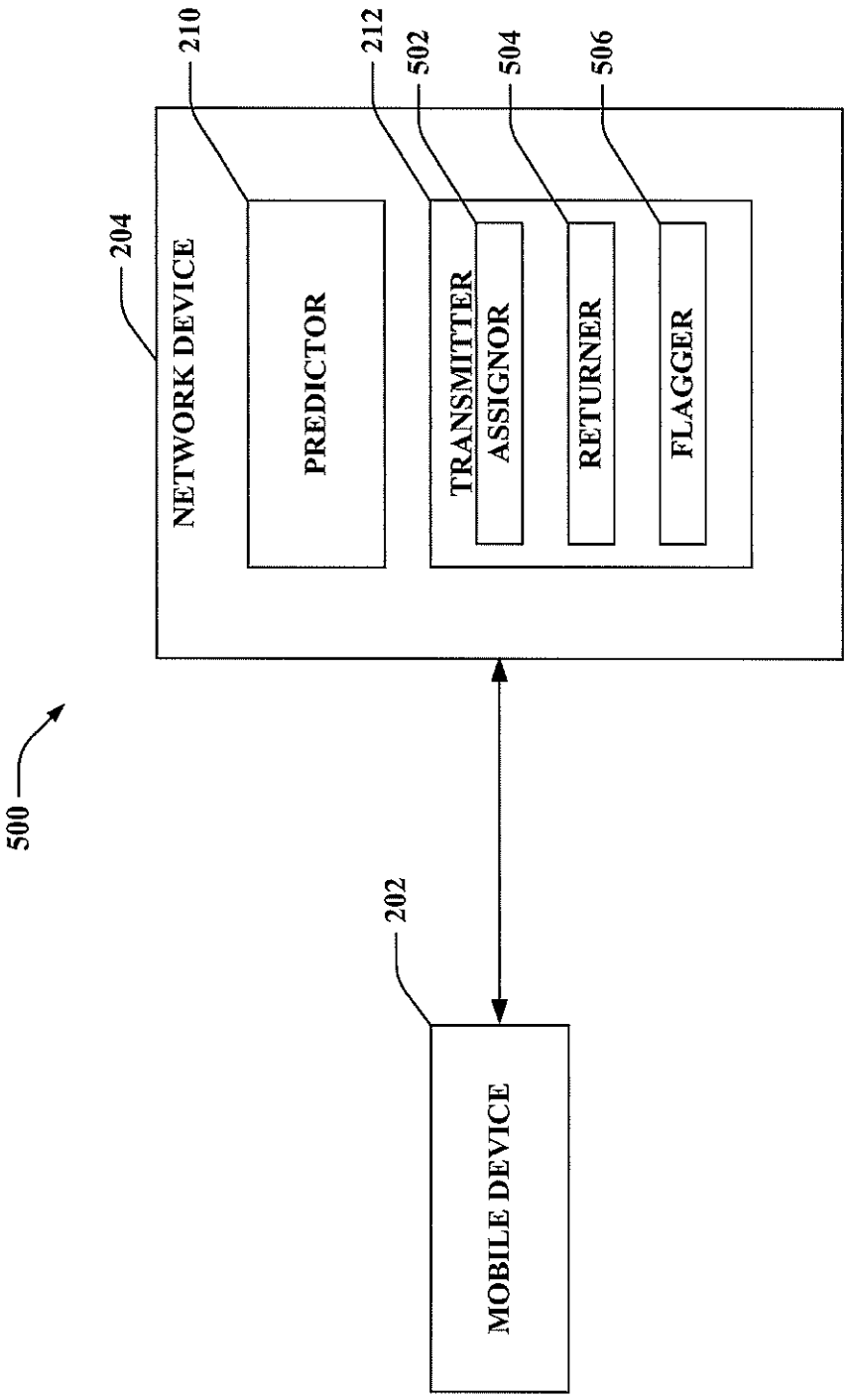

500
202
MOBILE DEVICE
204
NETWORK DEVICE
210
PREDICTOR
212
TRANSMITTER
502
ASSIGNOR
504
RETURNER
506
FLAGGER

FIG. 5

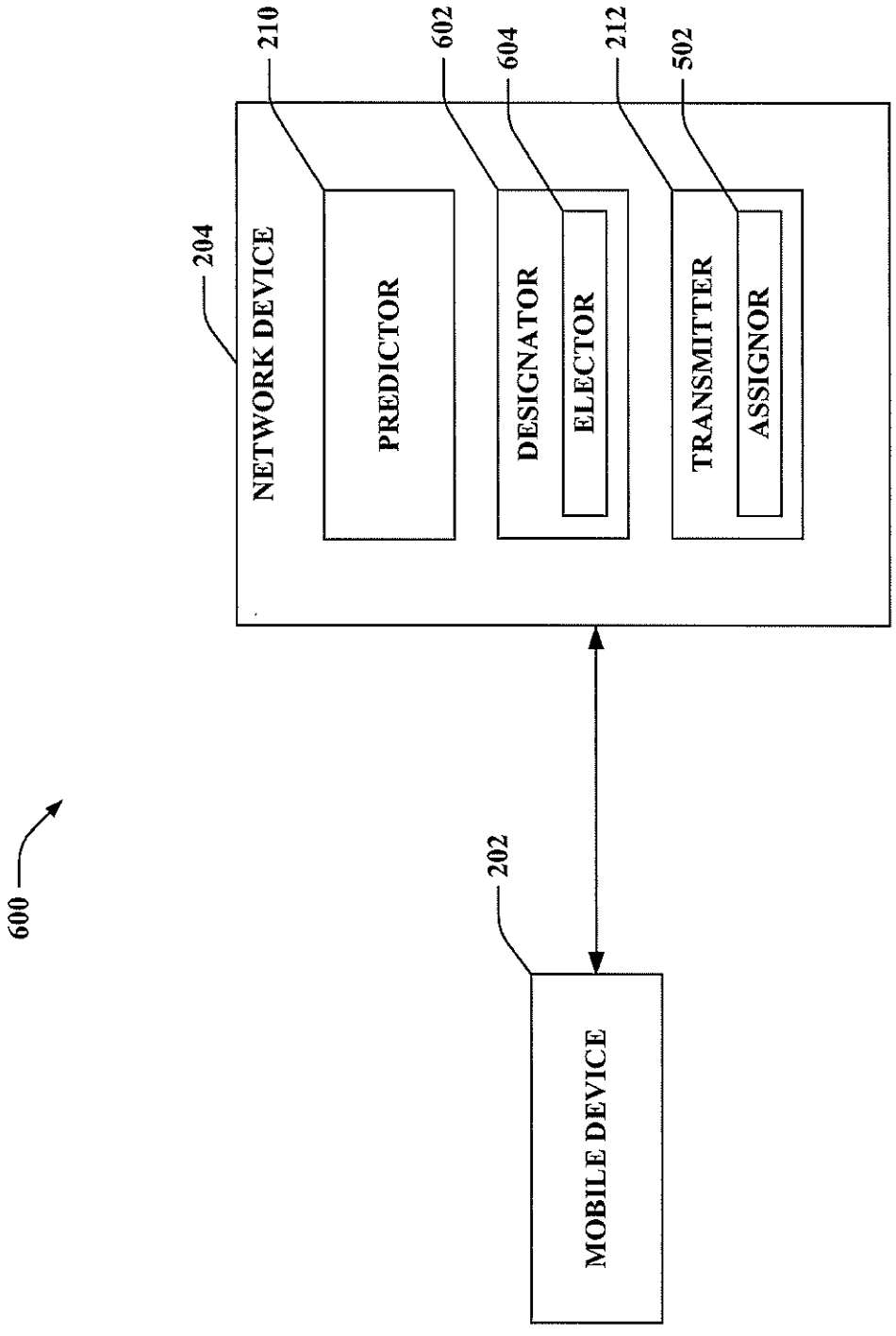

600
202
MOBILE DEVICE
204
NETWORK DEVICE
210
PREDICTOR
602
604
DESIGNATOR
ELECTOR
212
502
TRANSMITTER
ASSIGNOR

FIG. 6

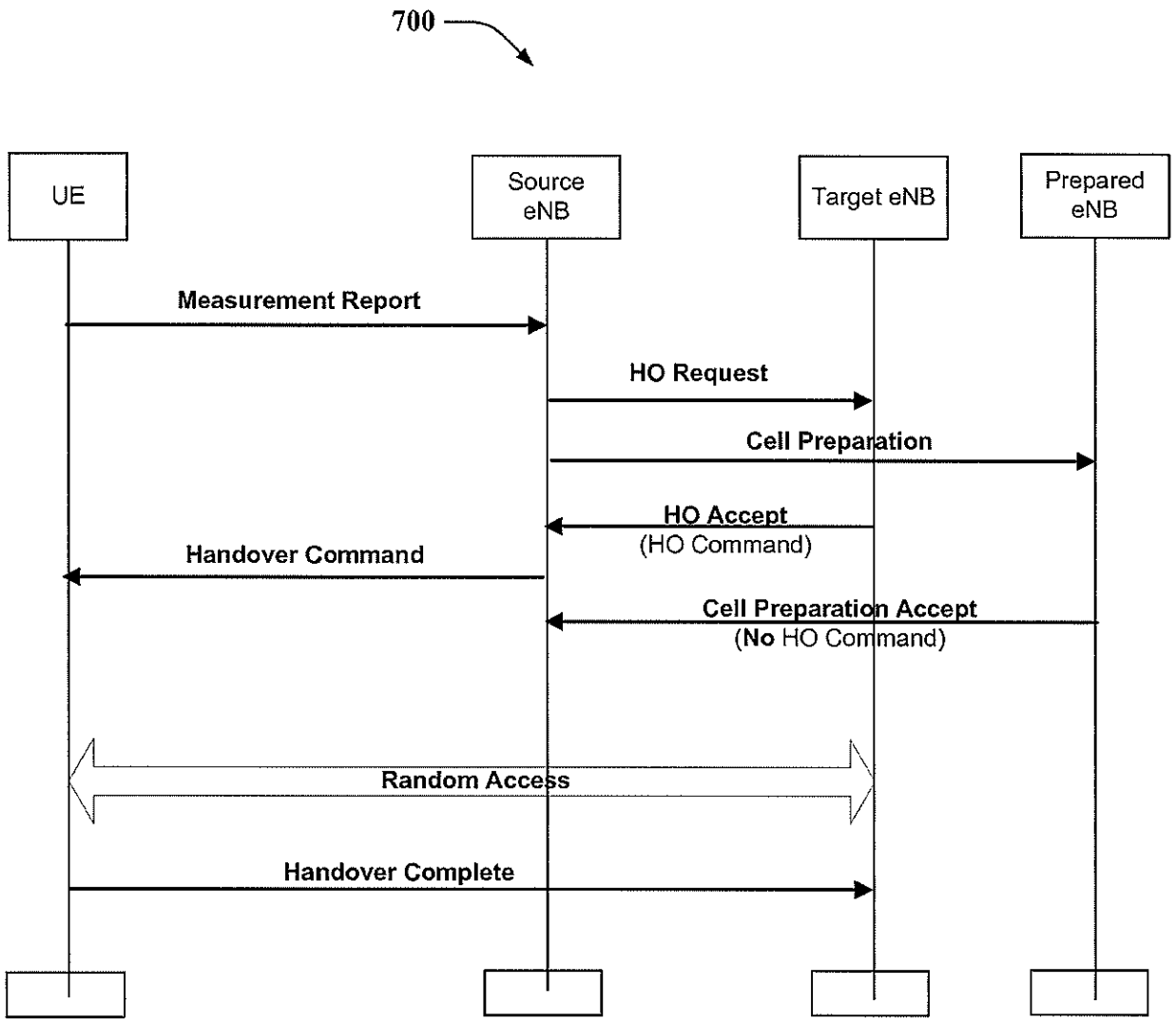

700
UE
Source eNB
Target eNB
Prepared eNB
Measurement Report
HO Request
Cell Preparation
HO Accept
(HO Command)
Handover Command
Cell Preparation Accept
(No HO Command)
Random Access
Handover Complete

FIG. 7

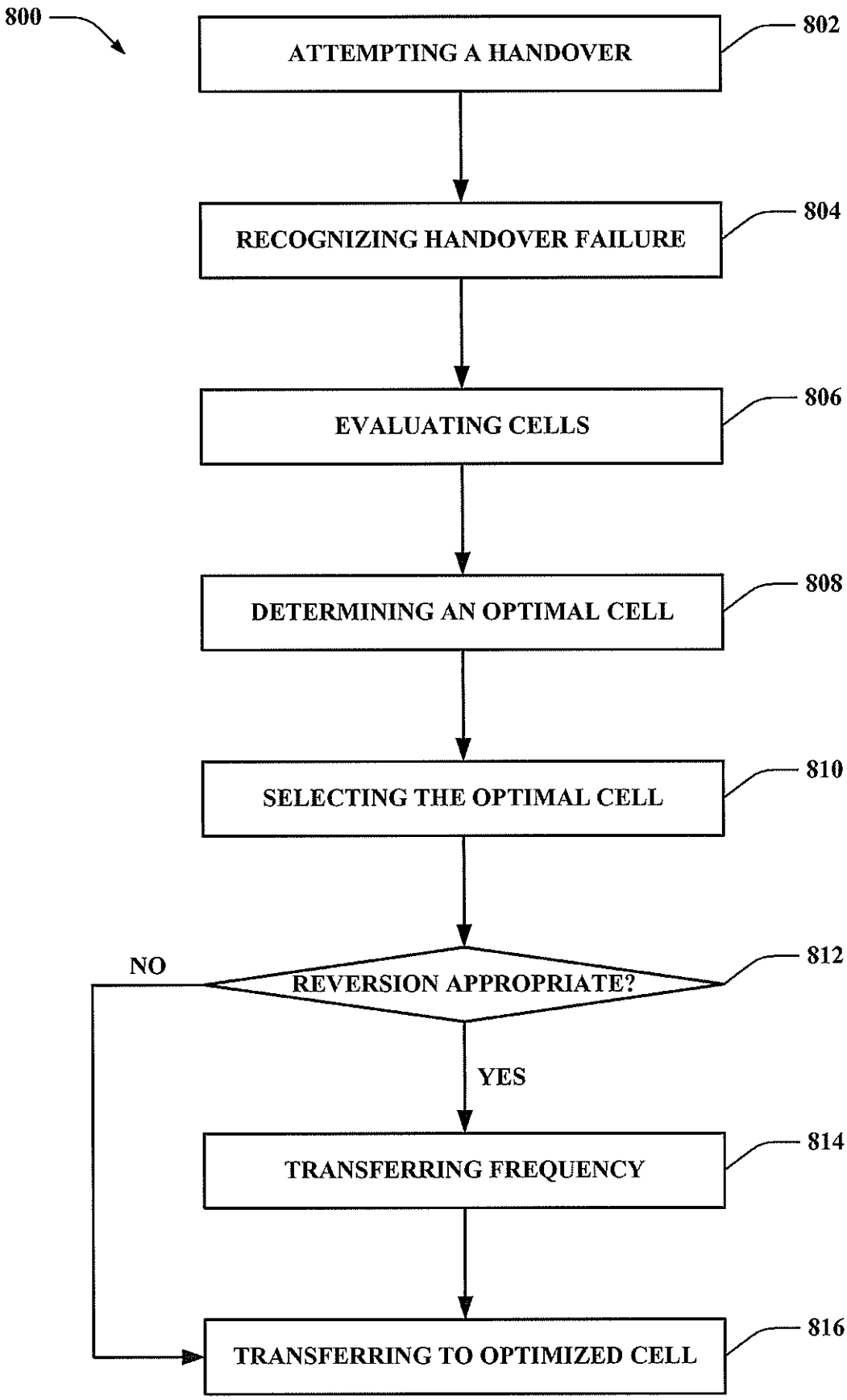

800
ATTEMPTING A HANDOVER
802
RECOGNIZING HANDOVER FAILURE
804
EVALUATING CELLS
806
DETERMINING AN OPTIMAL CELL
808
SELECTING THE OPTIMAL CELL
810
NO
REVERSION APPROPRIATE?
812
YES
TRANSFERRING FREQUENCY
814
TRANSFERRING TO OPTIMIZED CELL
816

FIG. 8

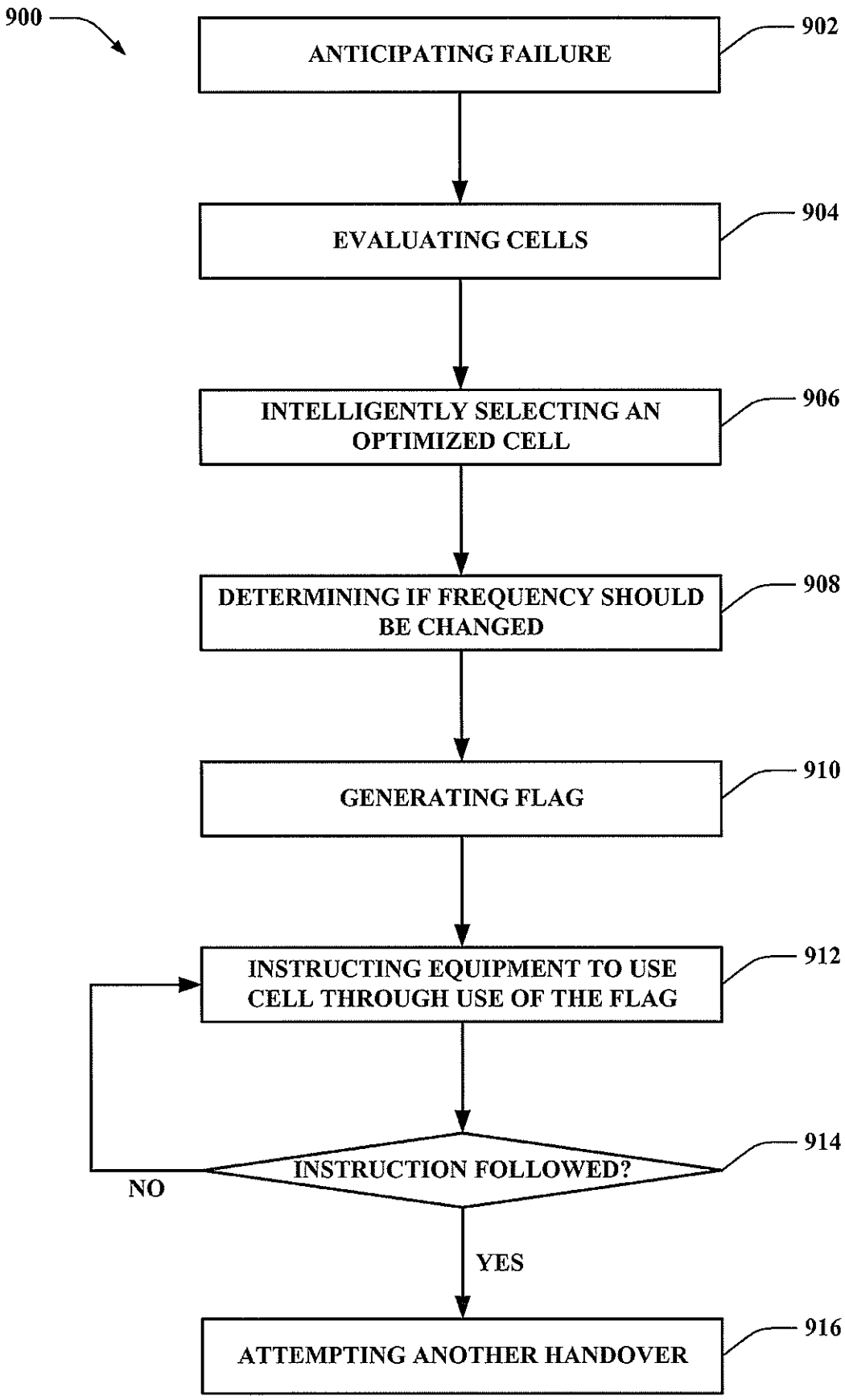

900
ANTICIPATING FAILURE
902
EVALUATING CELLS
904
INTELLIGENTLY SELECTING AN OPTIMIZED CELL
906
DETERMINING IF FREQUENCY SHOULD BE CHANGED
908
GENERATING FLAG
910
INSTRUCTING EQUIPMENT TO USE CELL THROUGH USE OF THE FLAG
912
INSTRUCTION FOLLOWED?
914
NO
YES
ATTEMPTING ANOTHER HANDOVER
916

FIG. 9

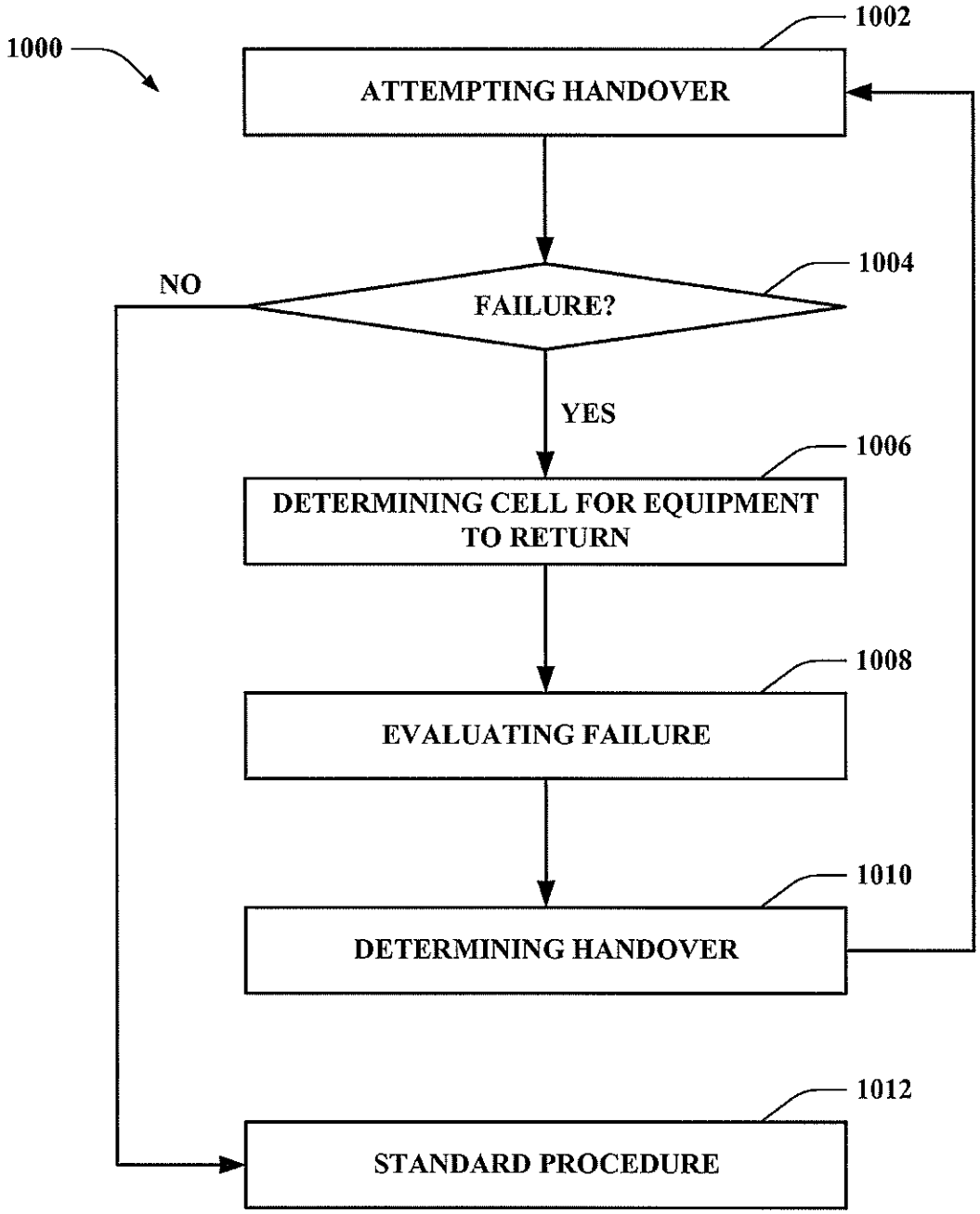

1000
1002
ATTEMPTING HANDOVER
1004
FAILURE?
NO
YES
1006
DETERMINING CELL FOR EQUIPMENT TO RETURN
1008
EVALUATING FAILURE
1010
DETERMINING HANDOVER
1012
STANDARD PROCEDURE

FIG. 10

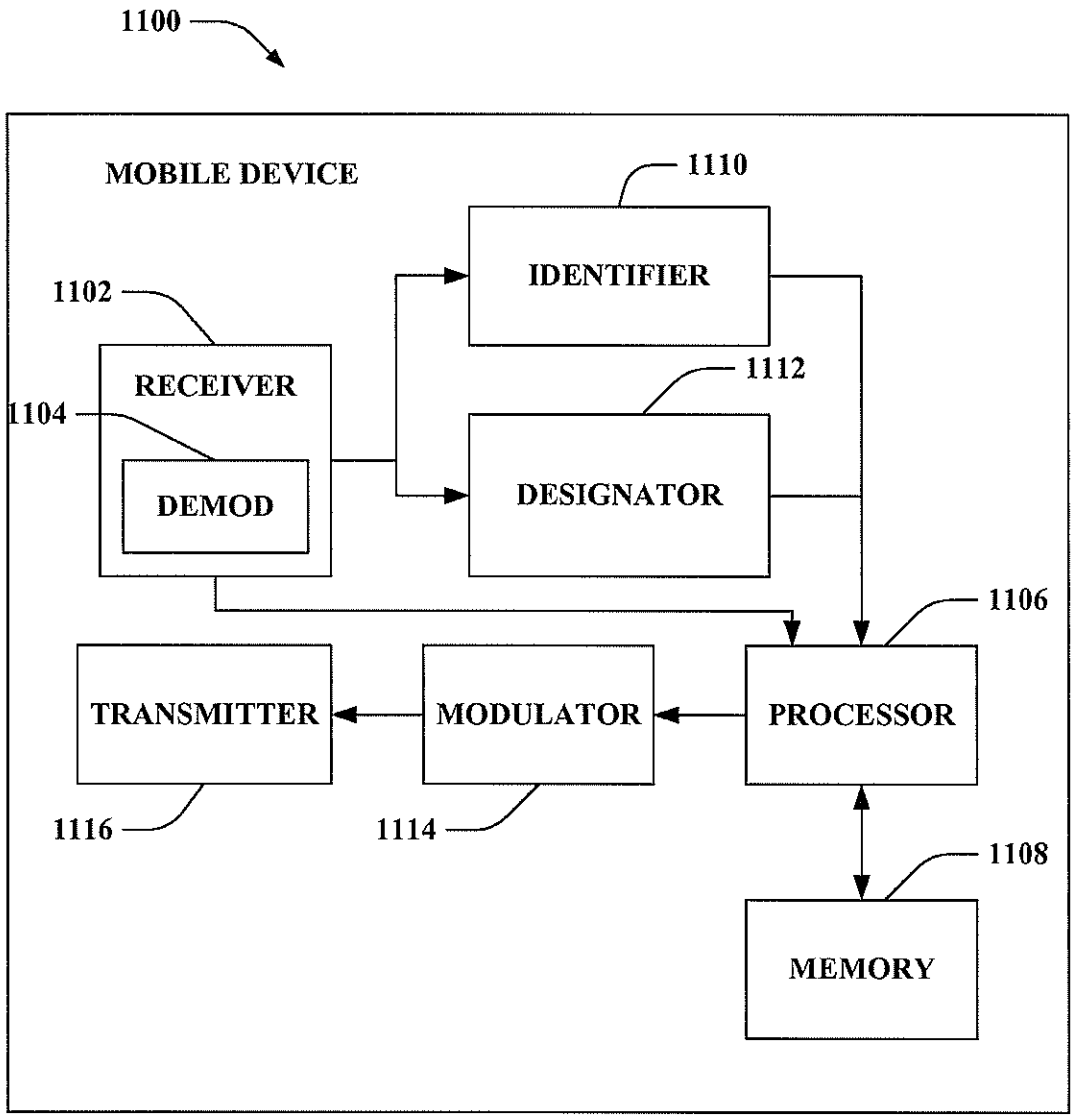

1100
MOBILE DEVICE
1110
IDENTIFIER
1102
RECEIVER
1104
DEMOD
1112
DESIGNATOR
1106
TRANSMITTER
MODULATOR
PROCESSOR
1116
1114
1108
MEMORY

FIG. 11

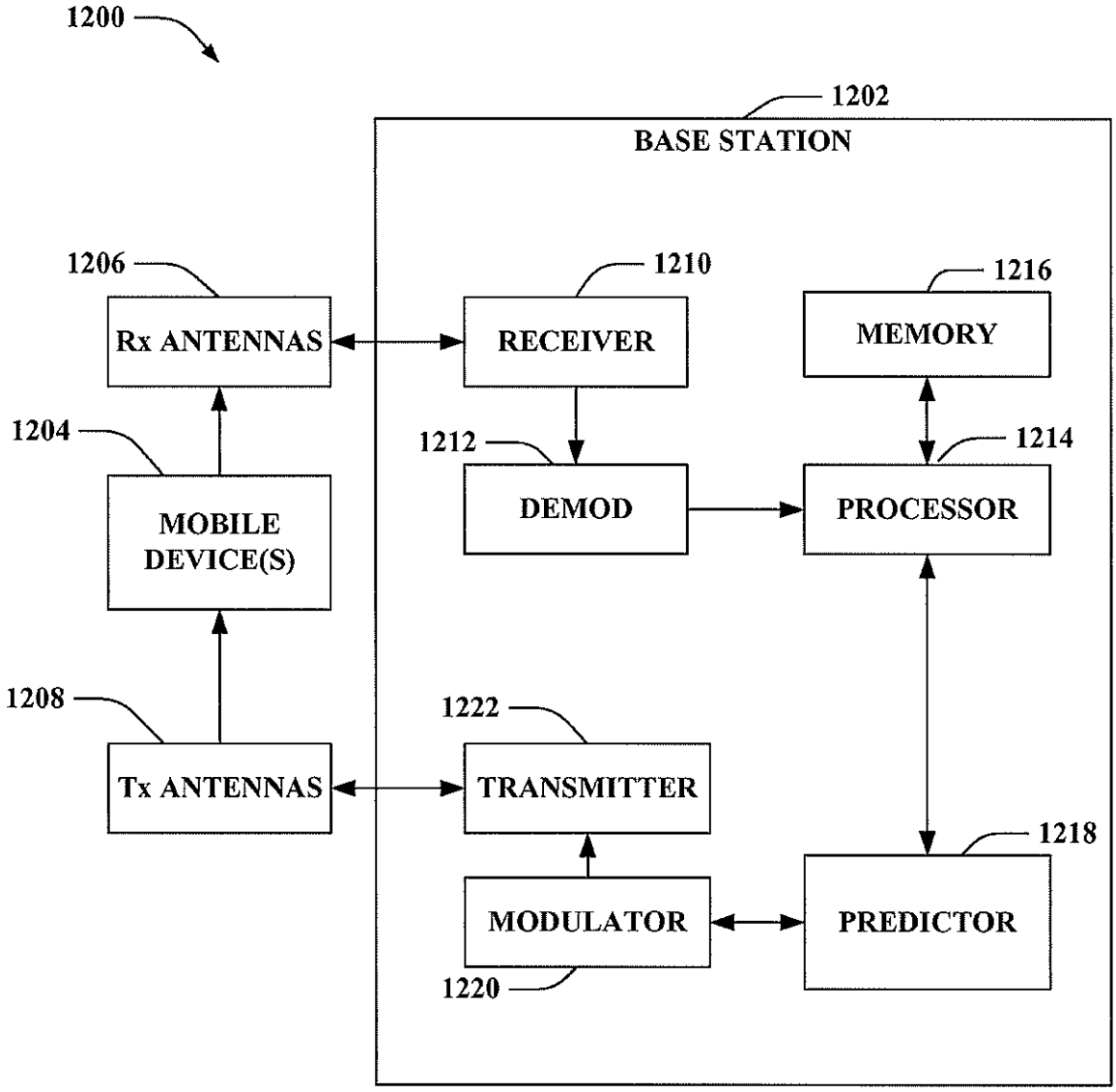

1200
1202
BASE STATION
1206
Rx ANTENNAS
1210
RECEIVER
1216
MEMORY
1204
MOBILE DEVICE(S)
1212
DEMOD
1214
PROCESSOR
1208
Tx ANTENNAS
1222
TRANSMITTER
1218
MODULATOR
PREDICTOR
1220

FIG. 12

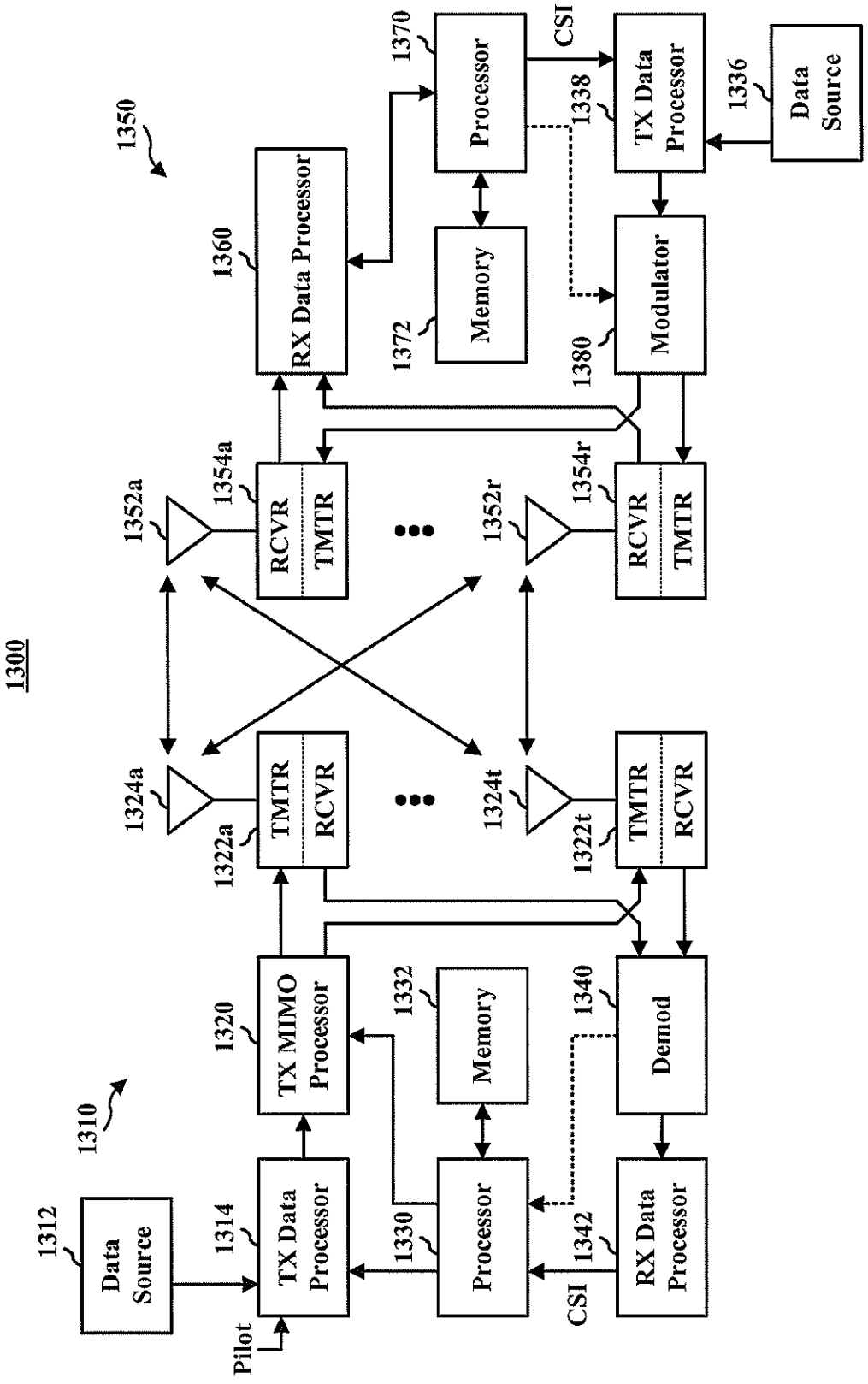

1300
1310
1312
Data Source
1314
TX Data Processor
Pilot
1320
TX MIMO Processor
1322a
TMTR
RCVR
1322t
TMTR
RCVR
1324a
1324t
1330
Processor
1332
Memory
1340
Demod
1342
RX Data Processor
CSI
1350
1352a
1352r
1354a
RCVR
TMTR
1354r
RCVR
TMTR
1360
RX Data Processor
1370
Processor
1372
Memory
1380
Modulator
1338
CSI
TX Data Processor
1336
Data Source

FIG. 13

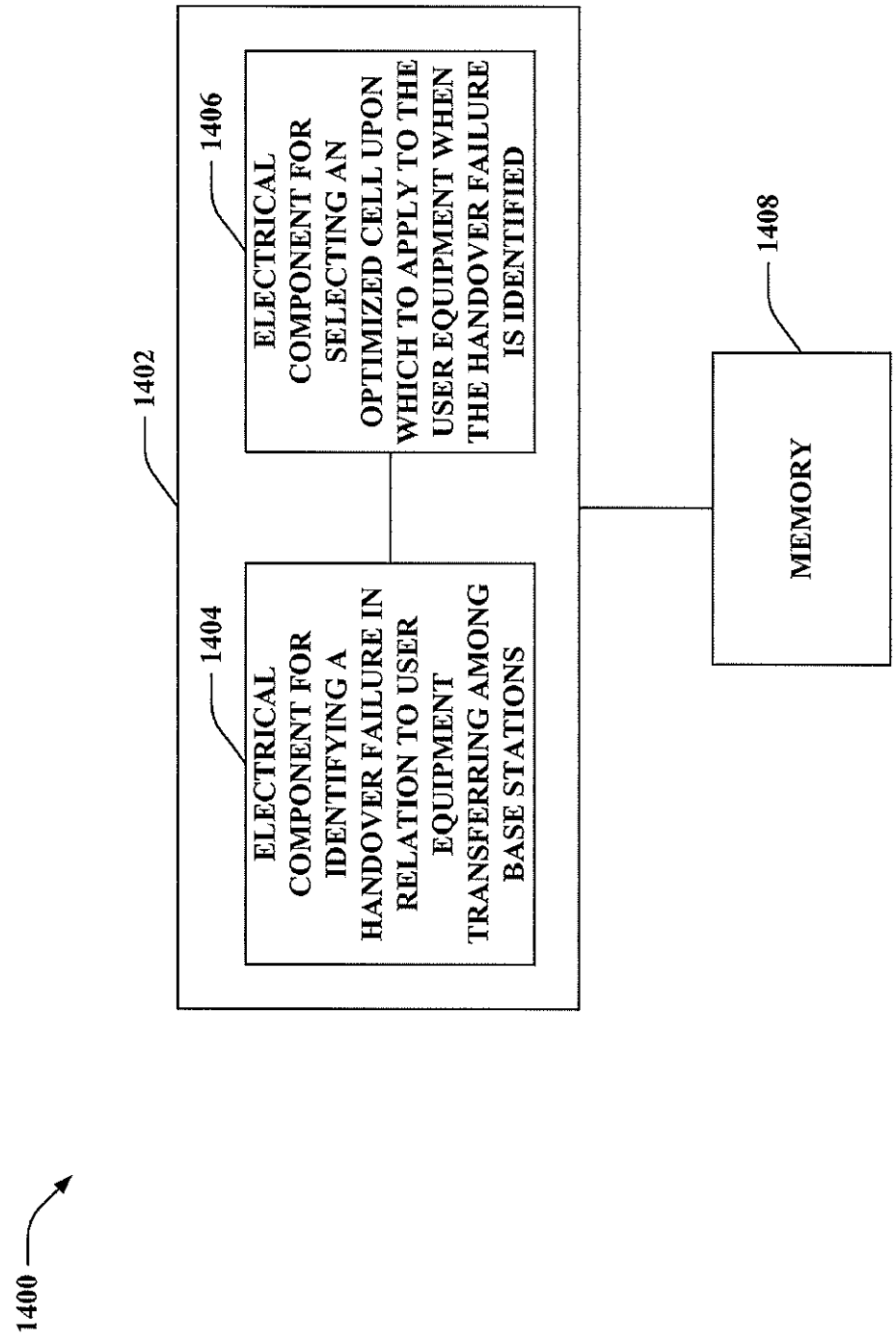

1400
1402
1404
ELECTRICAL COMPONENT FOR IDENTIFYING A HANDOVER FAILURE IN RELATION TO USER EQUIPMENT TRANSFERRING AMONG BASE STATIONS
1406
ELECTRICAL COMPONENT FOR SELECTING AN OPTIMIZED CELL UPON WHICH TO APPLY TO THE USER EQUIPMENT WHEN THE HANDOVER FAILURE IS IDENTIFIED
1408
MEMORY

FIG. 14

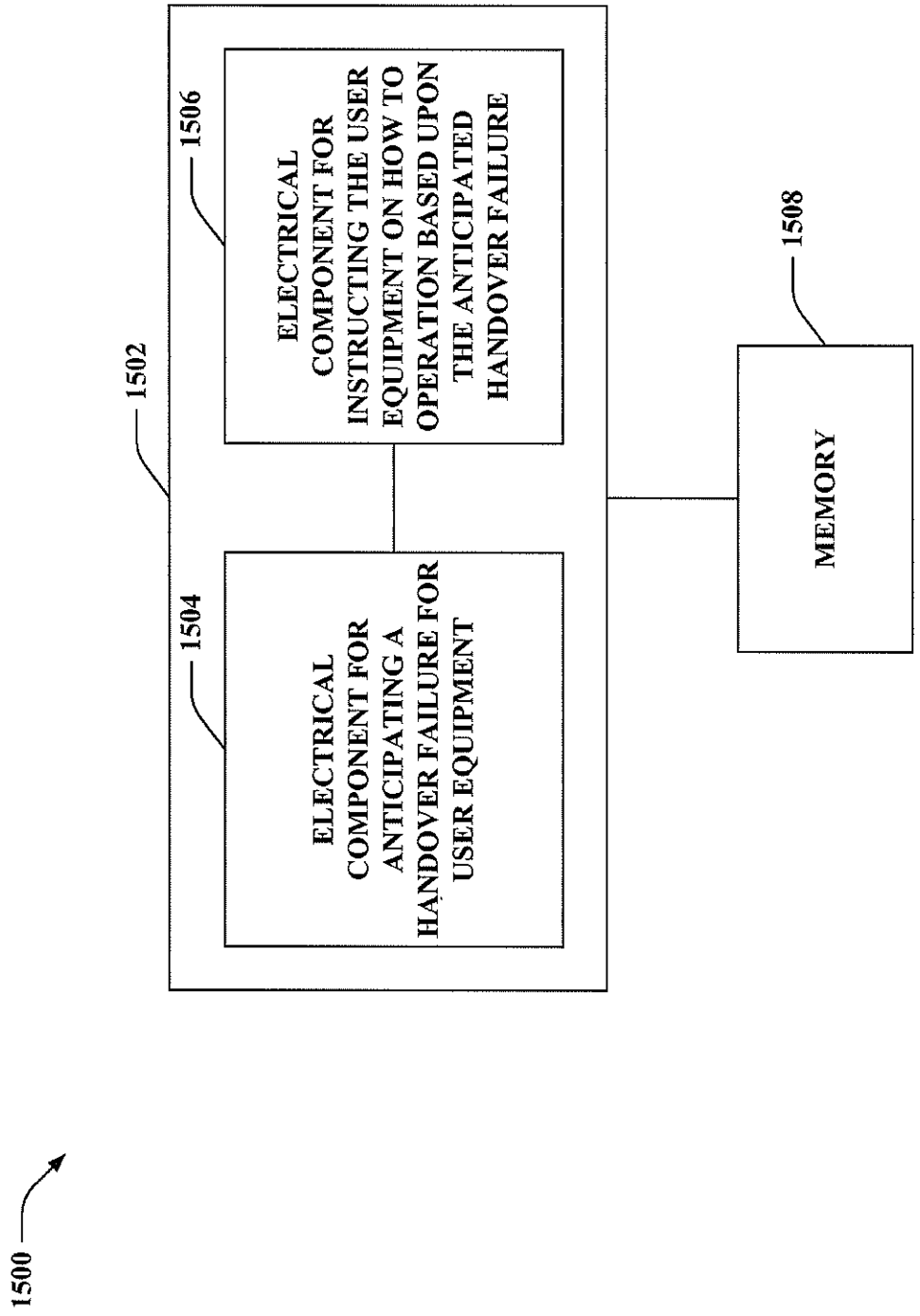

1500
1502
1504
ELECTRICAL COMPONENT FOR ANTICIPATING A HANDOVER FAILURE FOR USER EQUIPMENT
1506
ELECTRICAL COMPONENT FOR INSTRUCTING THE USER EQUIPMENT ON HOW TO OPERATION BASED UPON THE ANTICIPATED HANDOVER FAILURE
1508
MEMORY

FIG. 15