400
404
RECEIVER
402
TRANSMITTER
406
FIRST ACQUISITION PILOT GENERATOR
408
SECOND ACQUISITION PILOT GENERATOR
410
THIRD ACQUISITION PILOT GENERATOR
412
COMMUNICATOR
414
MEMORY
416
PROCESSOR

FIG. 4

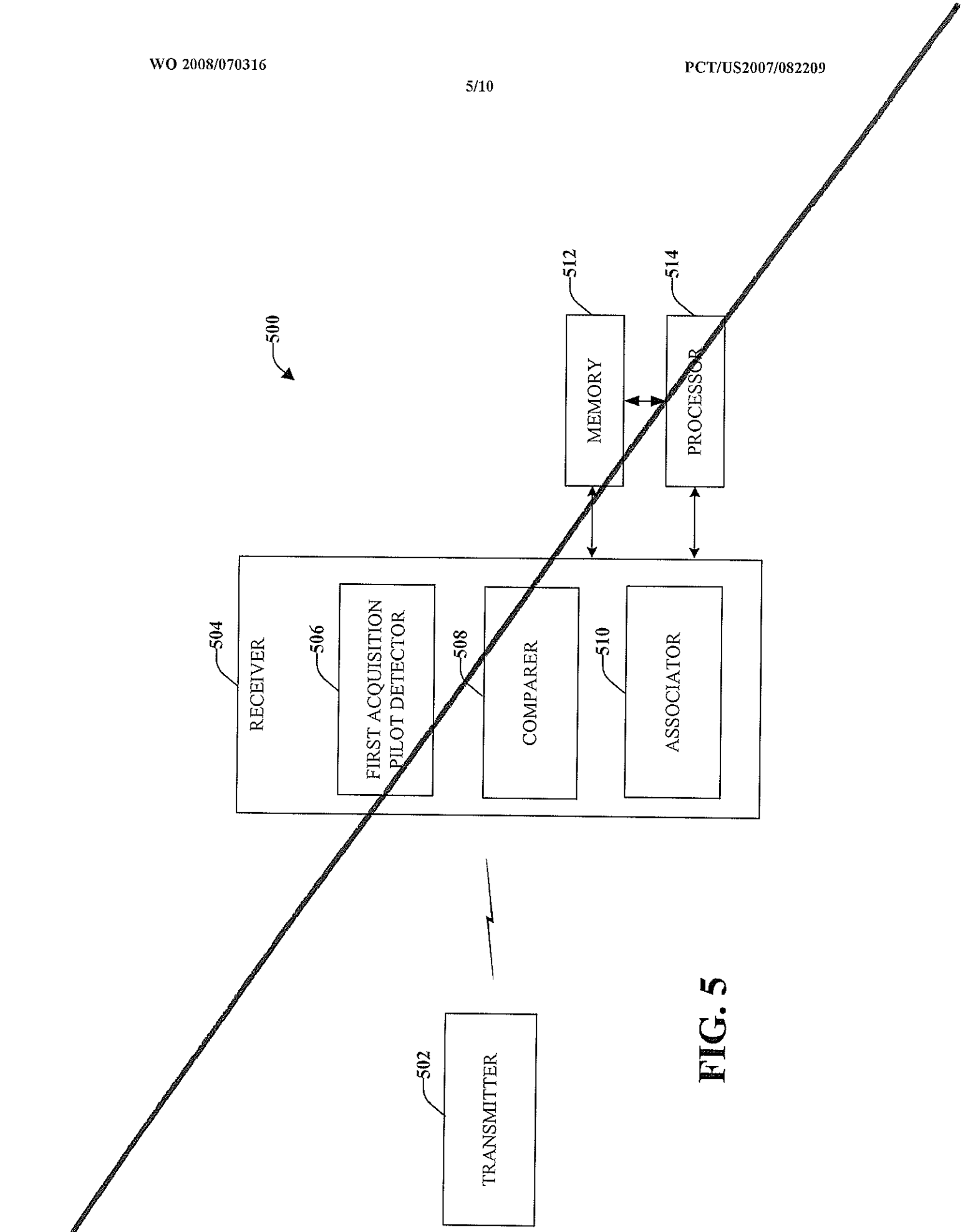

500
512
MEMORY
514
PROCESSOR
504
RECEIVER
506
FIRST ACQUISITION PILOT DETECTOR
508
COMPARER
510
ASSOCIATOR
502
TRANSMITTER

FIG. 5

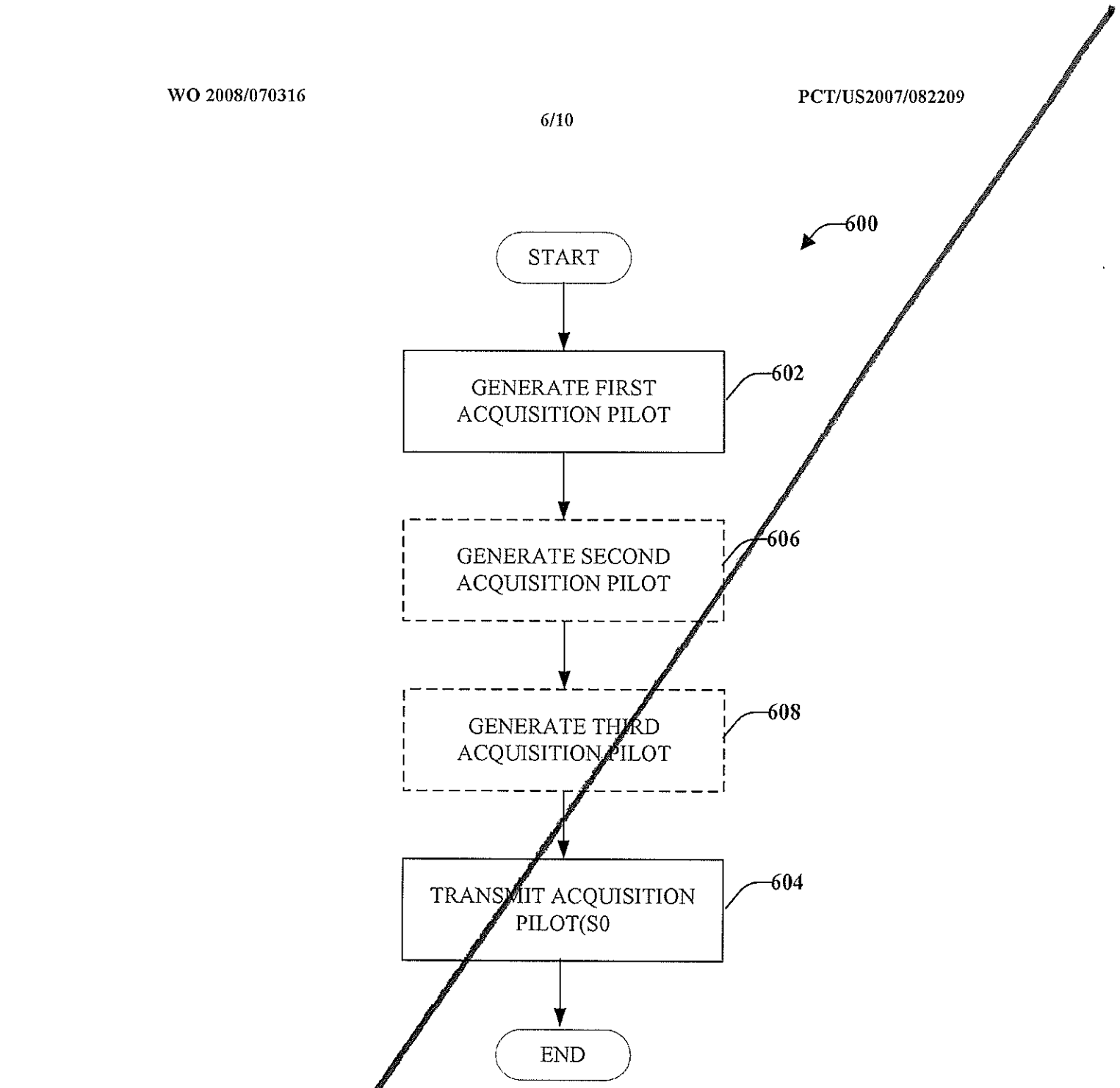

600
START
GENERATE FIRST ACQUISITION PILOT
602
GENERATE SECOND ACQUISITION PILOT
606
GENERATE THIRD ACQUISITION PILOT
608
TRANSMIT ACQUISITION PILOT(S0
604
END

FIG. 6

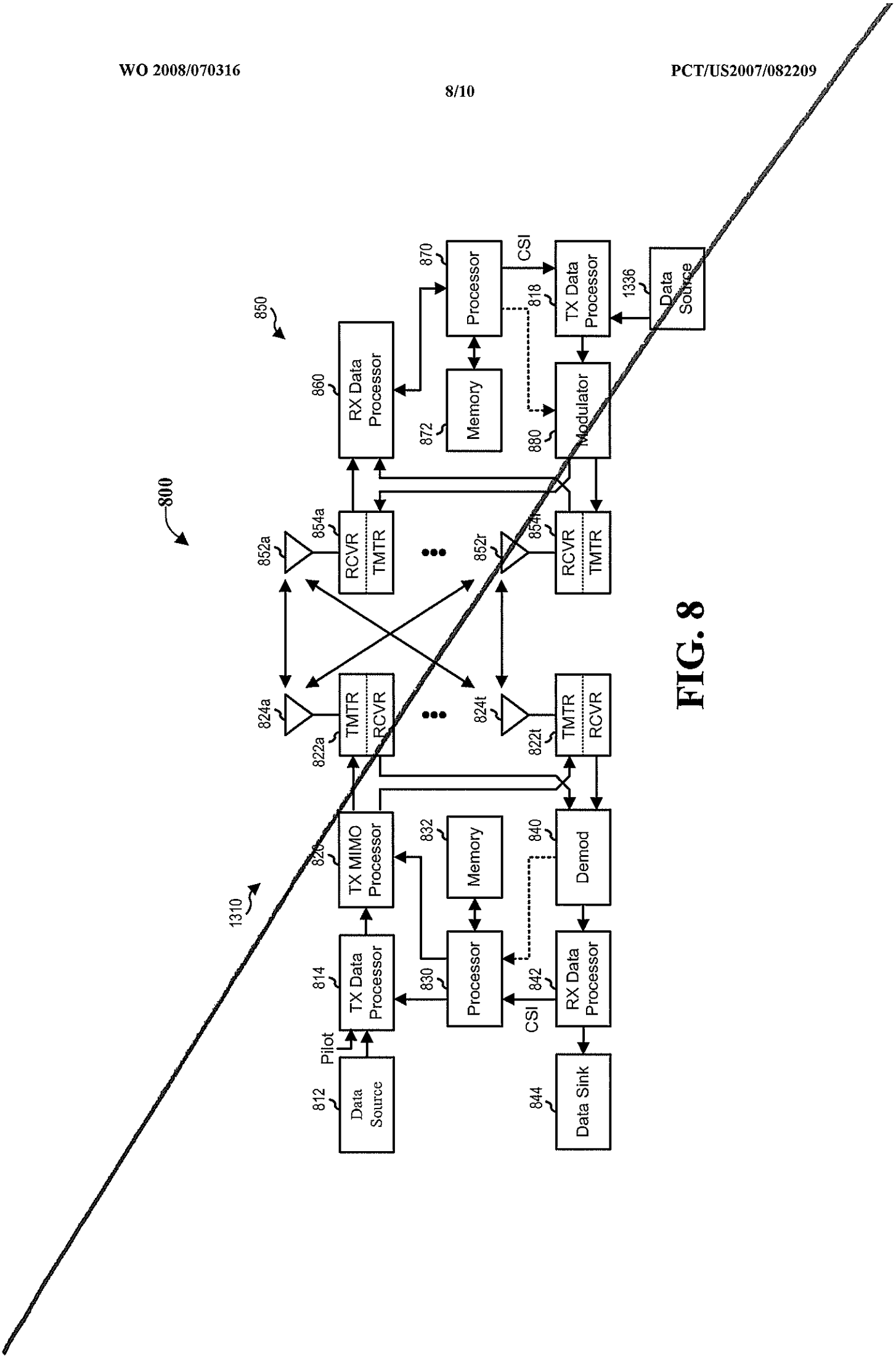

800
850
1310
RX Data Processor
860
Processor
870
Memory
872
CSI
TX Data Processor
818
Modulator
880
Data Source
1336
852a
854a
RCVR
TMTR
852r
854r
824a
822a
TMTR
RCVR
824t
822t
TX MIMO Processor
820
Memory
832
Demod
840
TX Data Processor
814
Processor
830
RX Data Processor
842
Pilot
CSI
Data Source
812
Data Sink
844

FIG. 8

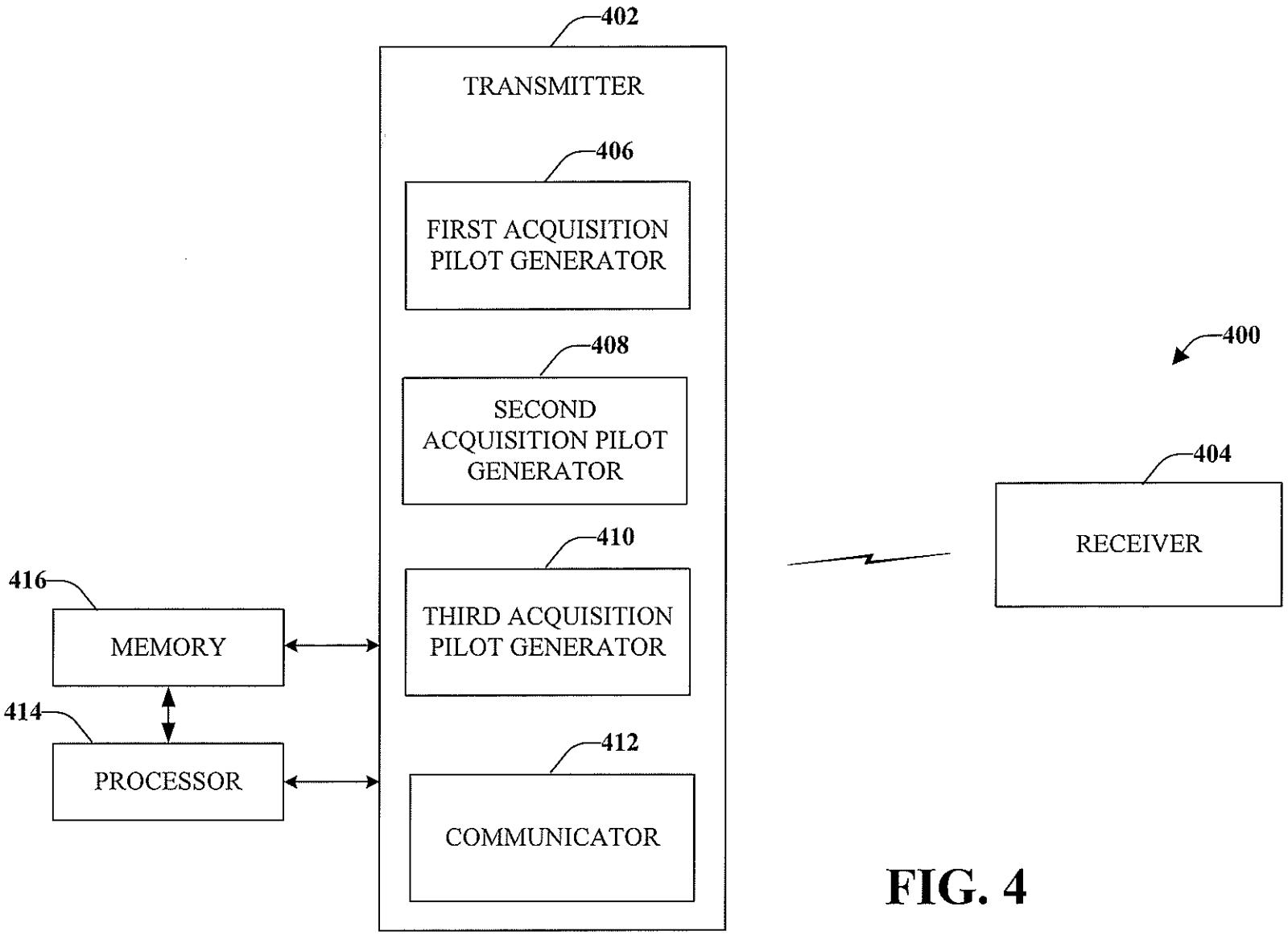

402
TRANSMITTER
406
FIRST ACQUISITION PILOT GENERATOR
408
SECOND ACQUISITION PILOT GENERATOR
410
THIRD ACQUISITION PILOT GENERATOR
412
COMMUNICATOR
416
MEMORY
414
PROCESSOR
400
404
RECEIVER

FIG. 4

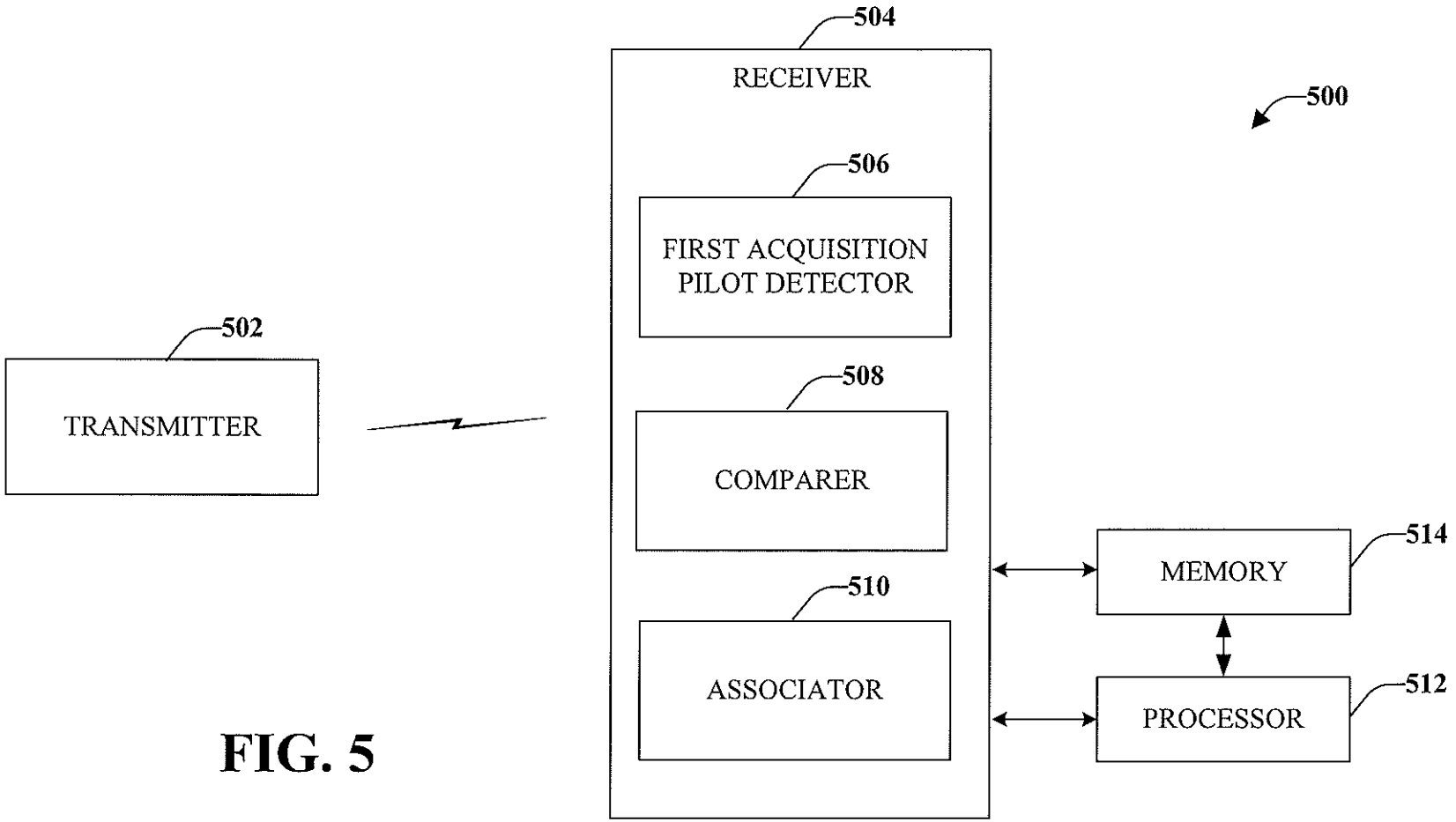

504
RECEIVER
500
506
FIRST ACQUISITION PILOT DETECTOR
502
TRANSMITTER
508
COMPARER
514
MEMORY
510
ASSOCIATOR
512
PROCESSOR

FIG. 5

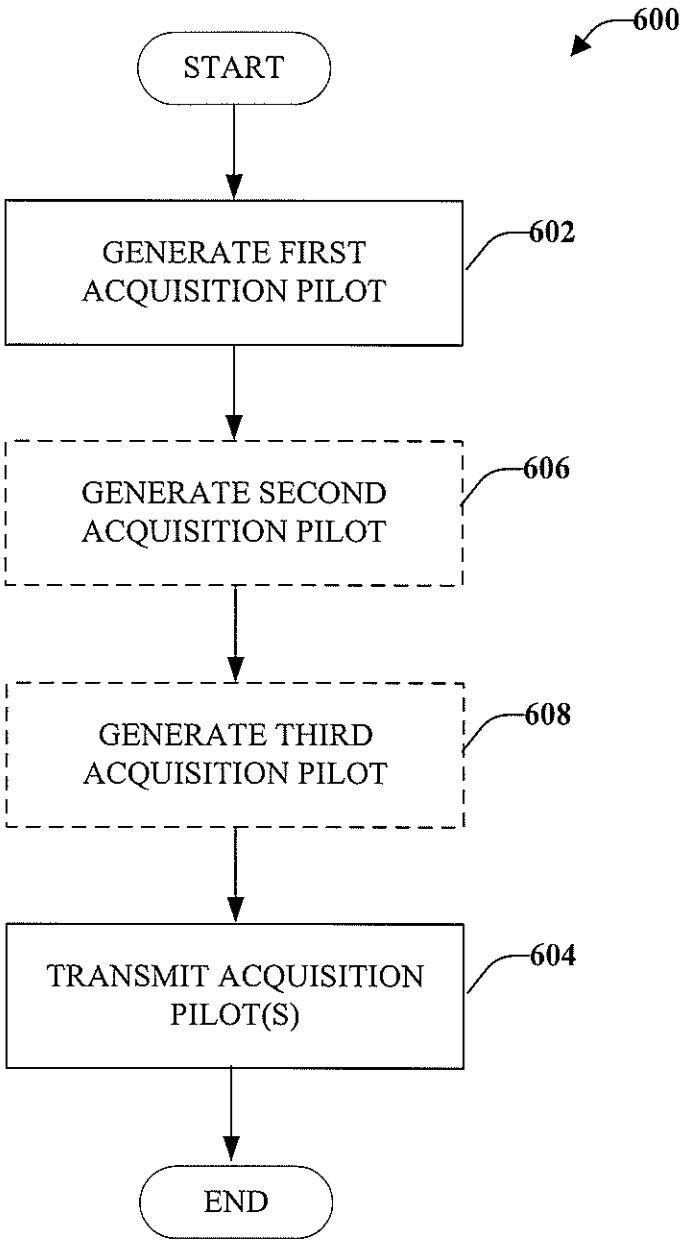

600
START
GENERATE FIRST ACQUISITION PILOT
602
GENERATE SECOND ACQUISITION PILOT
606
GENERATE THIRD ACQUISITION PILOT
608
TRANSMIT ACQUISITION PILOT(S)
604
END

FIG. 6

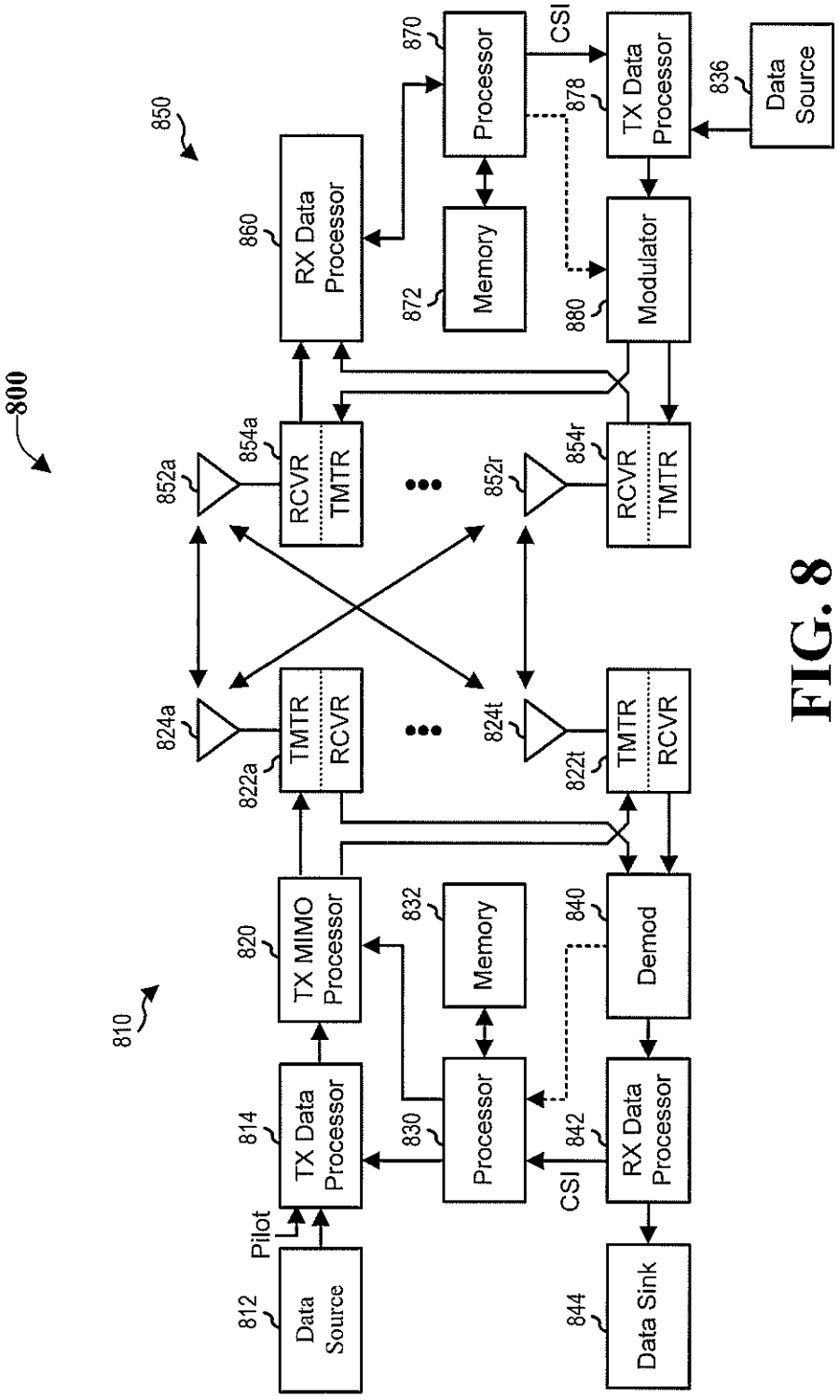

800
810
812
Data Source
Pilot
814
TX Data Processor
820
TX MIMO Processor
822a
TMTR
RCVR
824a
852a
854a
RCVR
TMTR
830
Processor
832
Memory
840
Demod
842
RX Data Processor
CSI
844
Data Sink
822t
TMTR
RCVR
824t
852r
854r
RCVR
TMTR
850
860
RX Data Processor
870
Processor
872
Memory
878
CSI
880
Modulator
TX Data Processor
836
Data Source

FIG. 8