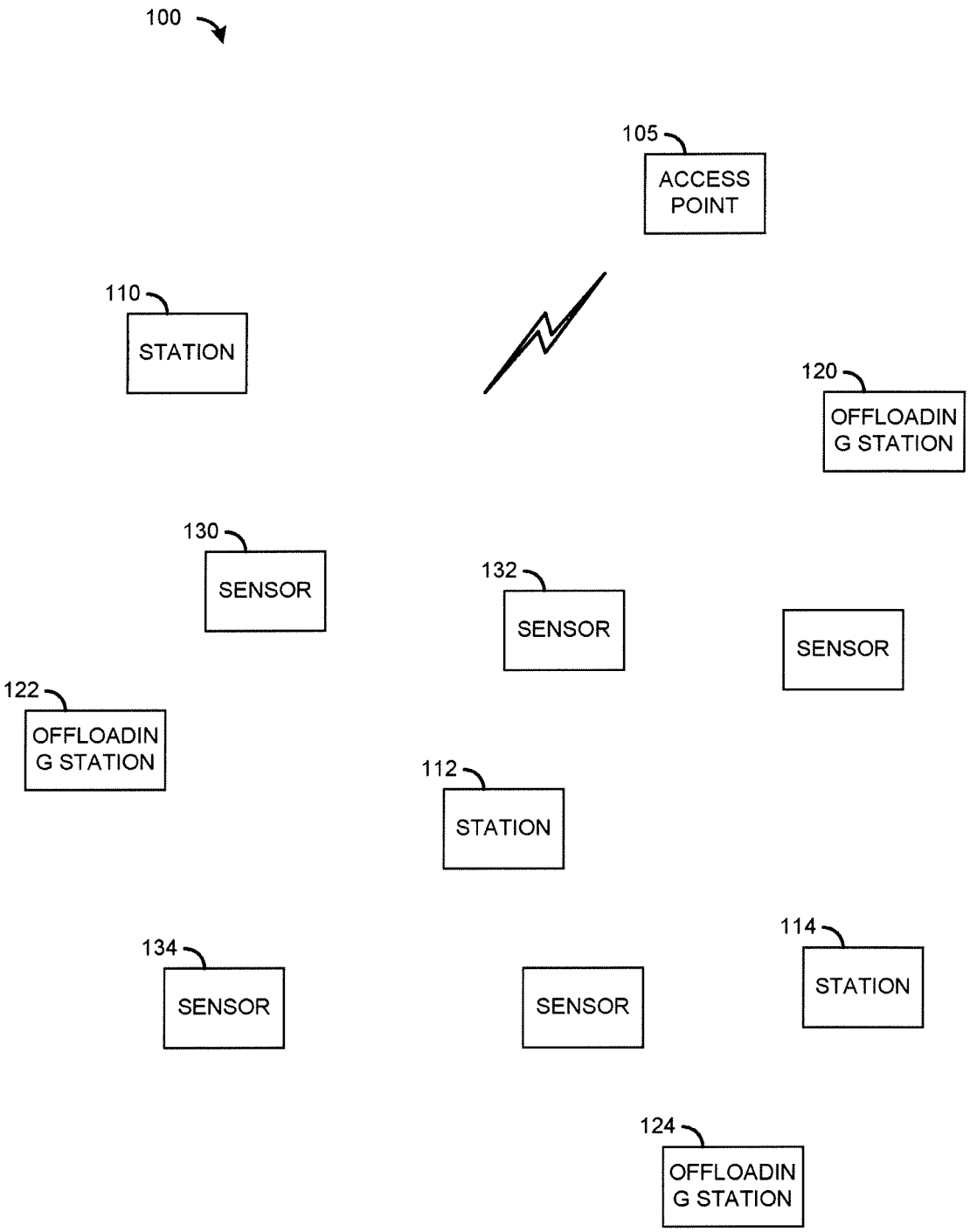
100
105
ACCESS POINT
110
STATION
120
OFFLOADING STATION
130
SENSOR
132
SENSOR
SENSOR
122
OFFLOADING STATION
112
STATION
134
SENSOR
SENSOR
114
STATION
124
OFFLOADING STATION

Fig. 1

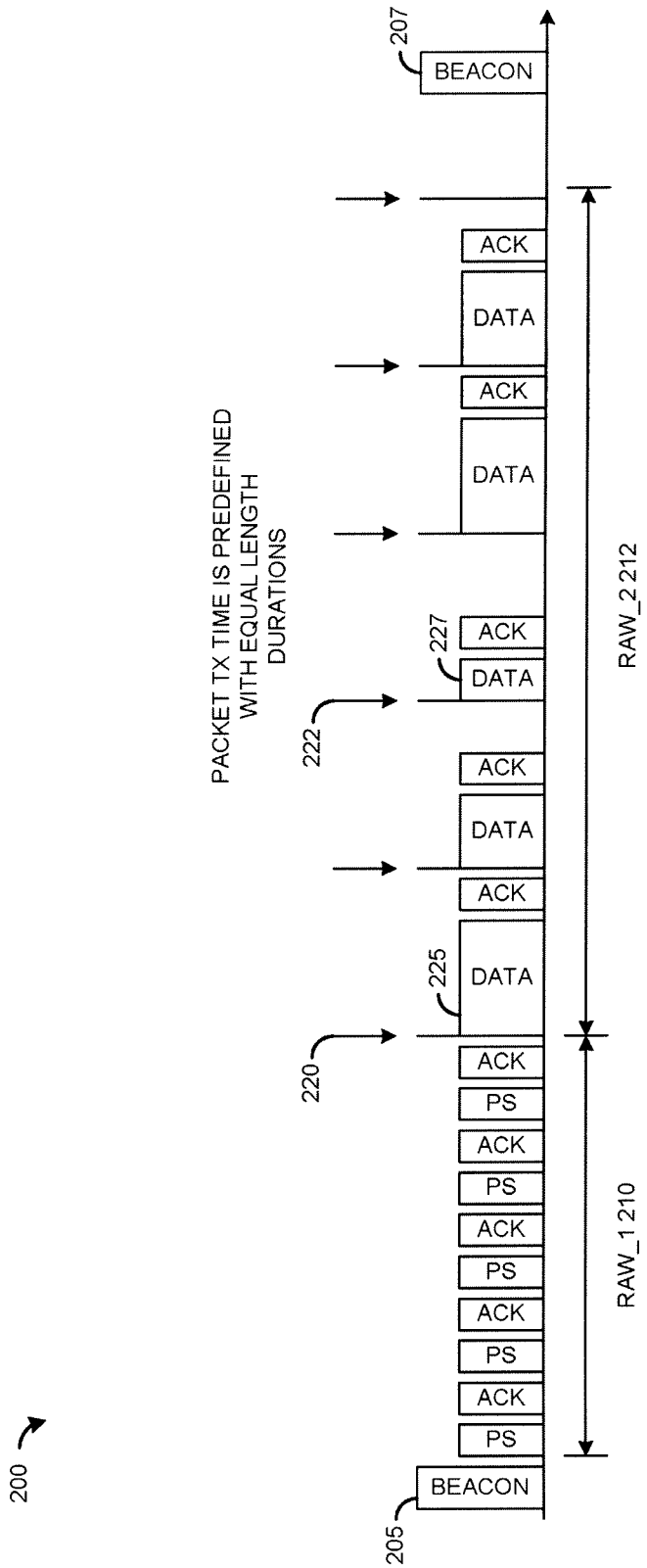
200
205
BEACON
207
ACK
DATA
ACK
DATA
ACK
DATA
227
ACK
DATA
222
ACK
DATA
ACK
225
DATA
220
ACK
PS
ACK
PS
ACK
PS
ACK
PS
ACK
PS
BEACON
PACKET TX TIME IS PREDEFINED WITH EQUAL LENGTH DURATIONS
RAW_2 212
RAW_1 210

Fig. 2

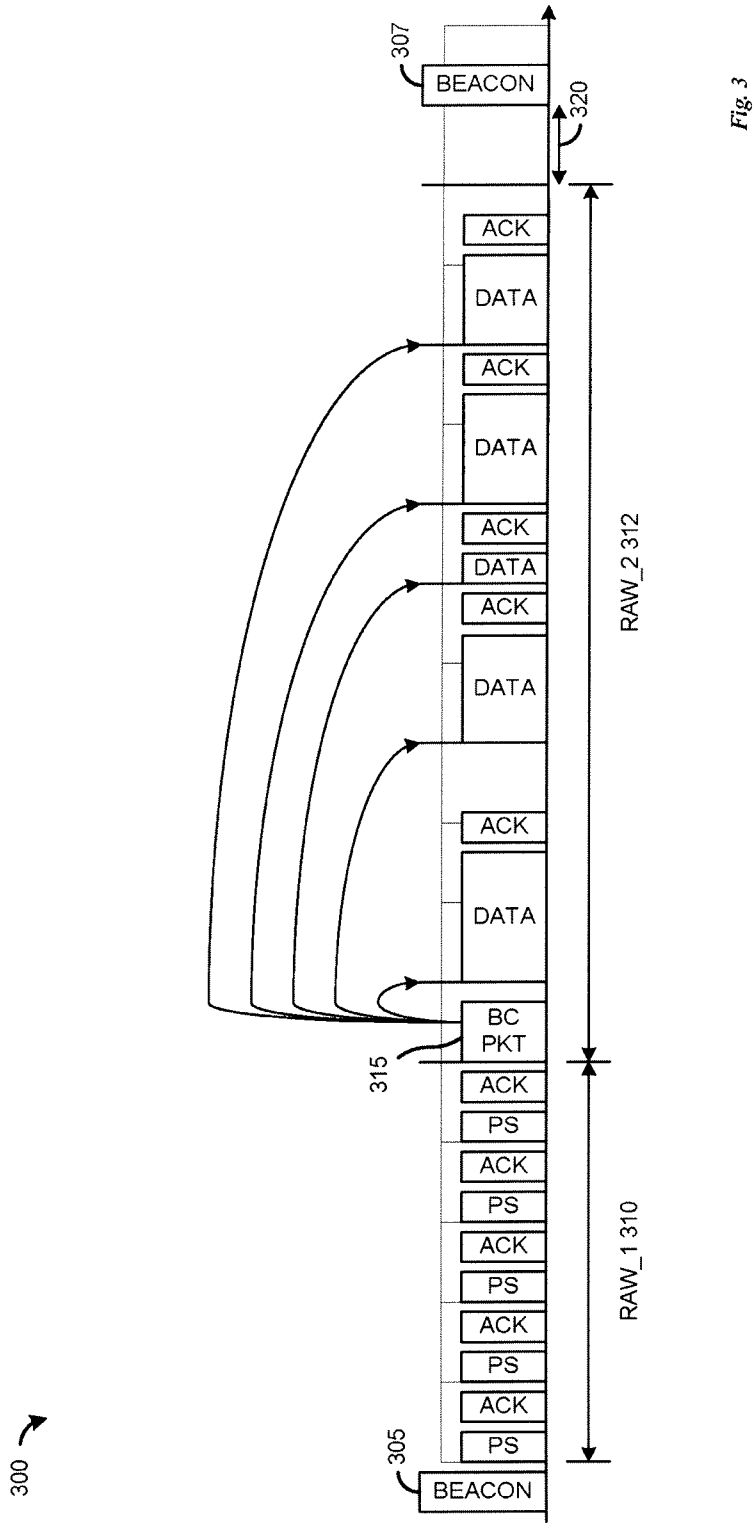
300
307
BEACON
320
ACK
DATA
ACK
DATA
ACK
DATA
ACK
DATA
ACK
DATA
RAW_2 312
BC
PKT
315
ACK
PS
ACK
PS
ACK
PS
ACK
PS
ACK
PS
RAW_1 310
305
BEACON

Fig. 3

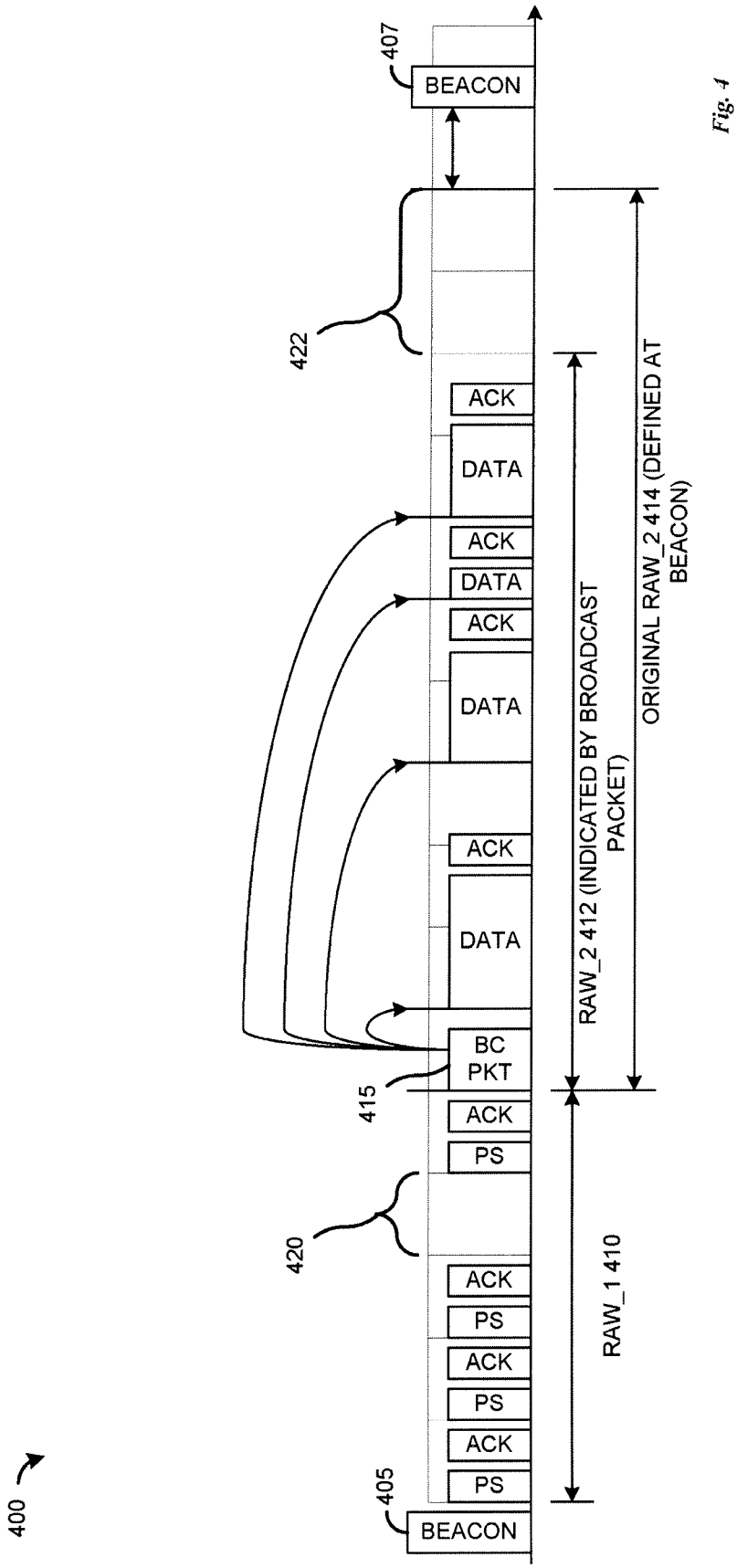
400
405
BEACON
420
ACK
PS
ACK
PS
ACK
PS
ACK
PS
415
BC
PKT
ACK
DATA
ACK
DATA
ACK
DATA
ACK
DATA
422
407
BEACON
RAW_1 410
RAW_2 412 (INDICATED BY BROADCAST PACKET)
ORIGINAL RAW_2 414 (DEFINED AT BEACON)

Fig. 4

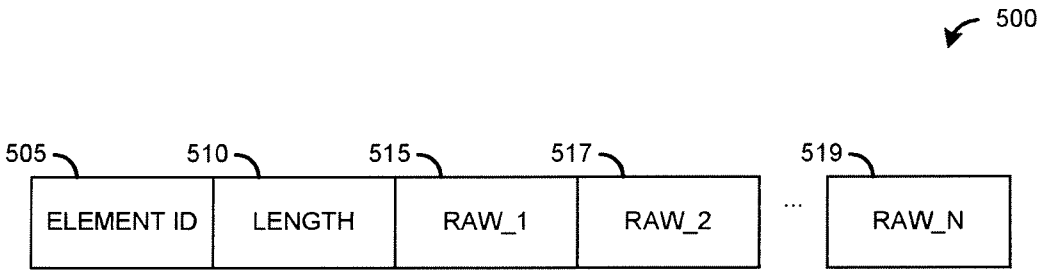

Fig. 5

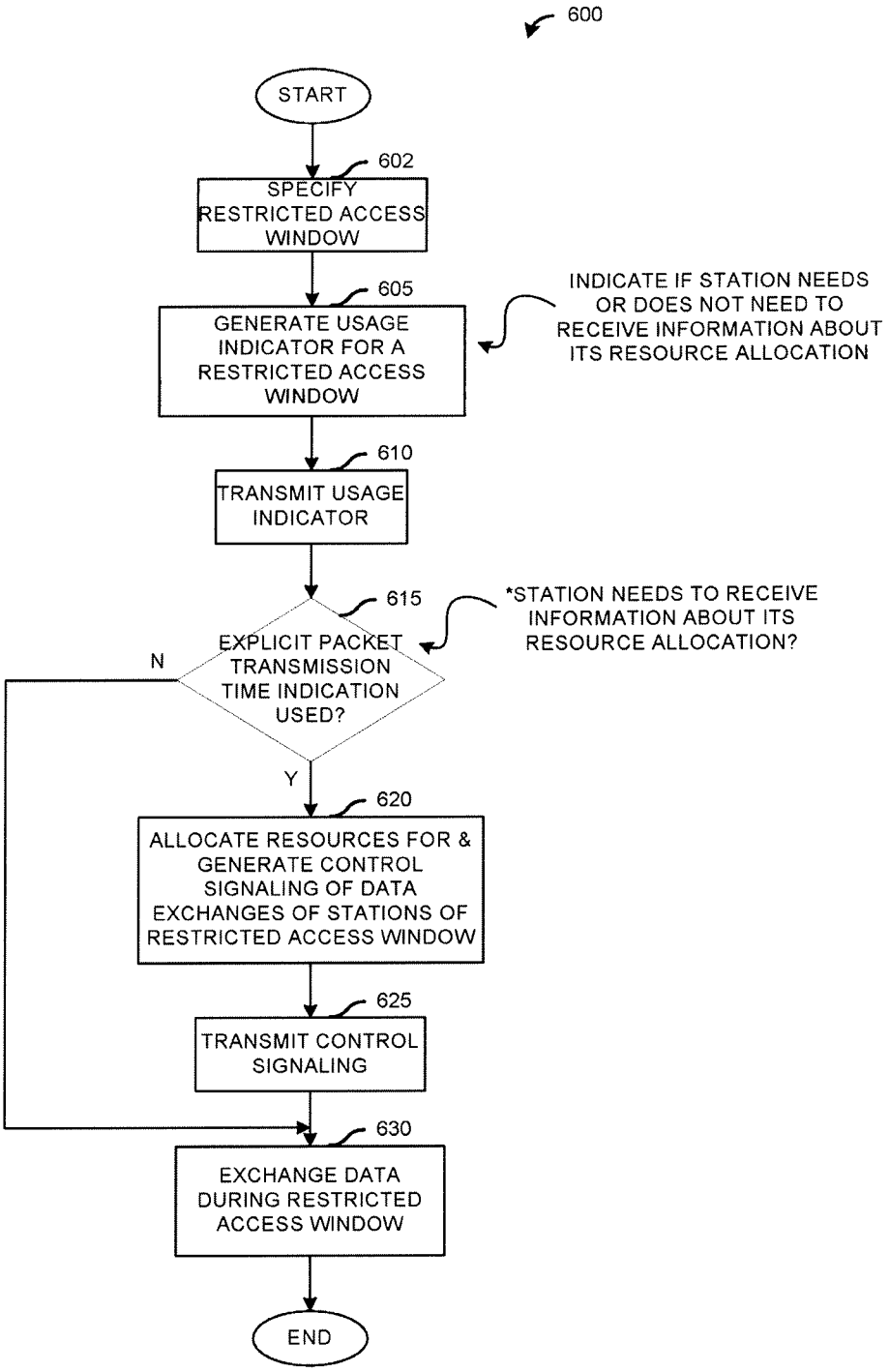
600
START
602
SPECIFY RESTRICTED ACCESS WINDOW
605
GENERATE USAGE INDICATOR FOR A RESTRICTED ACCESS WINDOW
INDICATE IF STATION NEEDS OR DOES NOT NEED TO RECEIVE INFORMATION ABOUT ITS RESOURCE ALLOCATION
610
TRANSMIT USAGE INDICATOR
615
EXPLICIT PACKET TRANSMISSION TIME INDICATION USED?
*STATION NEEDS TO RECEIVE INFORMATION ABOUT ITS RESOURCE ALLOCATION?
N
Y
620
ALLOCATE RESOURCES FOR & GENERATE CONTROL SIGNALING OF DATA EXCHANGES OF STATIONS OF RESTRICTED ACCESS WINDOW
625
TRANSMIT CONTROL SIGNALING
630
EXCHANGE DATA DURING RESTRICTED ACCESS WINDOW
END

Fig. 6

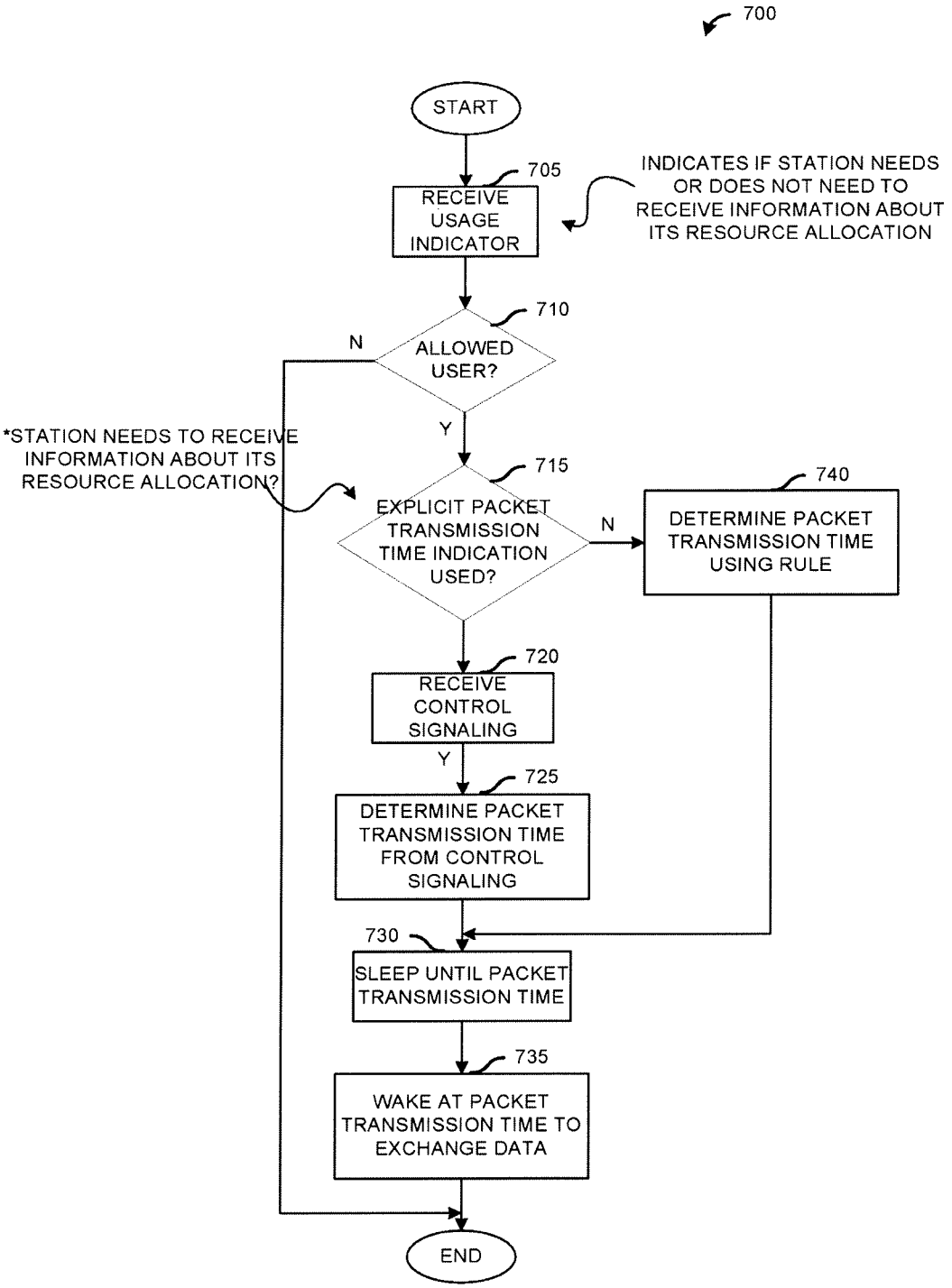
700
START
705
RECEIVE USAGE INDICATOR
INDICATES IF STATION NEEDS OR DOES NOT NEED TO RECEIVE INFORMATION ABOUT ITS RESOURCE ALLOCATION
710
ALLOWED USER?
N
Y
*STATION NEEDS TO RECEIVE INFORMATION ABOUT ITS RESOURCE ALLOCATION?
715
EXPLICIT PACKET TRANSMISSION TIME INDICATION USED?
N
740
DETERMINE PACKET TRANSMISSION TIME USING RULE
720
RECEIVE CONTROL SIGNALING
Y
725
DETERMINE PACKET TRANSMISSION TIME FROM CONTROL SIGNALING
730
SLEEP UNTIL PACKET TRANSMISSION TIME
735
WAKE AT PACKET TRANSMISSION TIME TO EXCHANGE DATA
END

Fig. 7

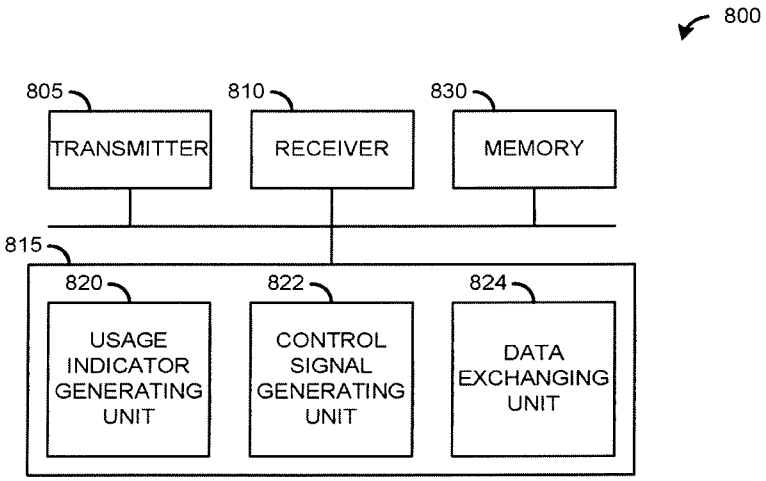
800
805
TRANSMITTER
810
RECEIVER
830
MEMORY
815
820
USAGE INDICATOR GENERATING UNIT
822
CONTROL SIGNAL GENERATING UNIT
824
DATA EXCHANGING UNIT

Fig. 8

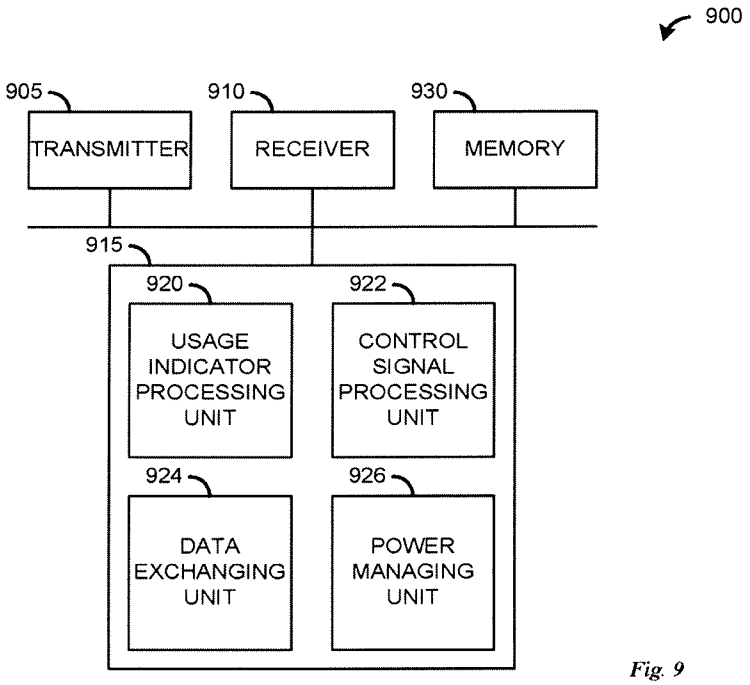
900
905
TRANSMITTER
910
RECEIVER
930
MEMORY
915
920
USAGE INDICATOR PROCESSING UNIT
922
CONTROL SIGNAL PROCESSING UNIT
924
DATA EXCHANGING UNIT
926
POWER MANAGING UNIT

Fig. 9