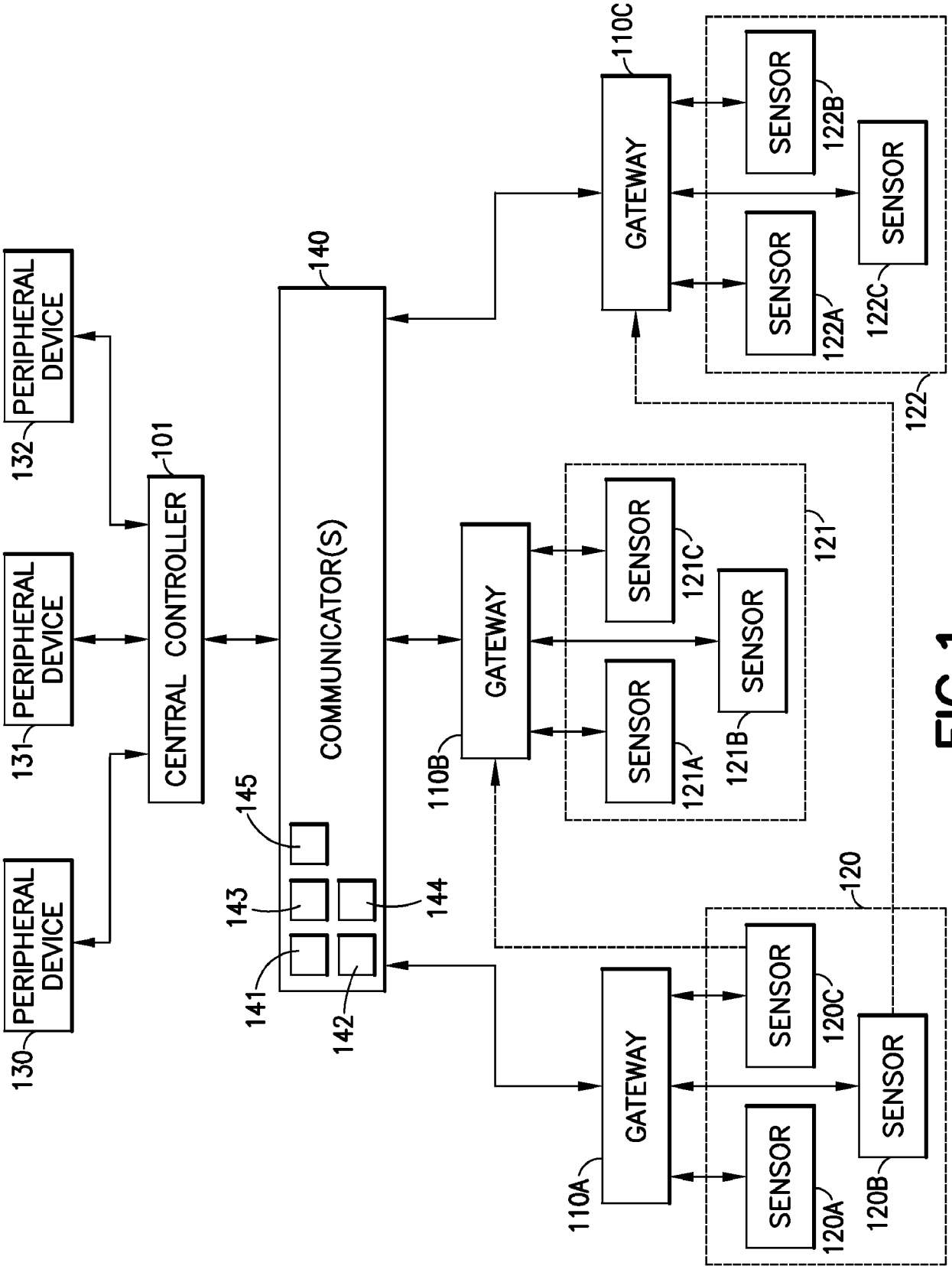

PERIPHERAL DEVICE
132
PERIPHERAL DEVICE
131
PERIPHERAL DEVICE
130
CENTRAL CONTROLLER
101
COMMUNICATOR(S)
140
145
143
144
141
142
GATEWAY
110C
GATEWAY
110B
GATEWAY
110A
SENSOR
122B
SENSOR
122A
SENSOR
122C
122
SENSOR
121C
SENSOR
121B
SENSOR
121A
121
SENSOR
120C
SENSOR
120A
SENSOR
120B
120

FIG. 1

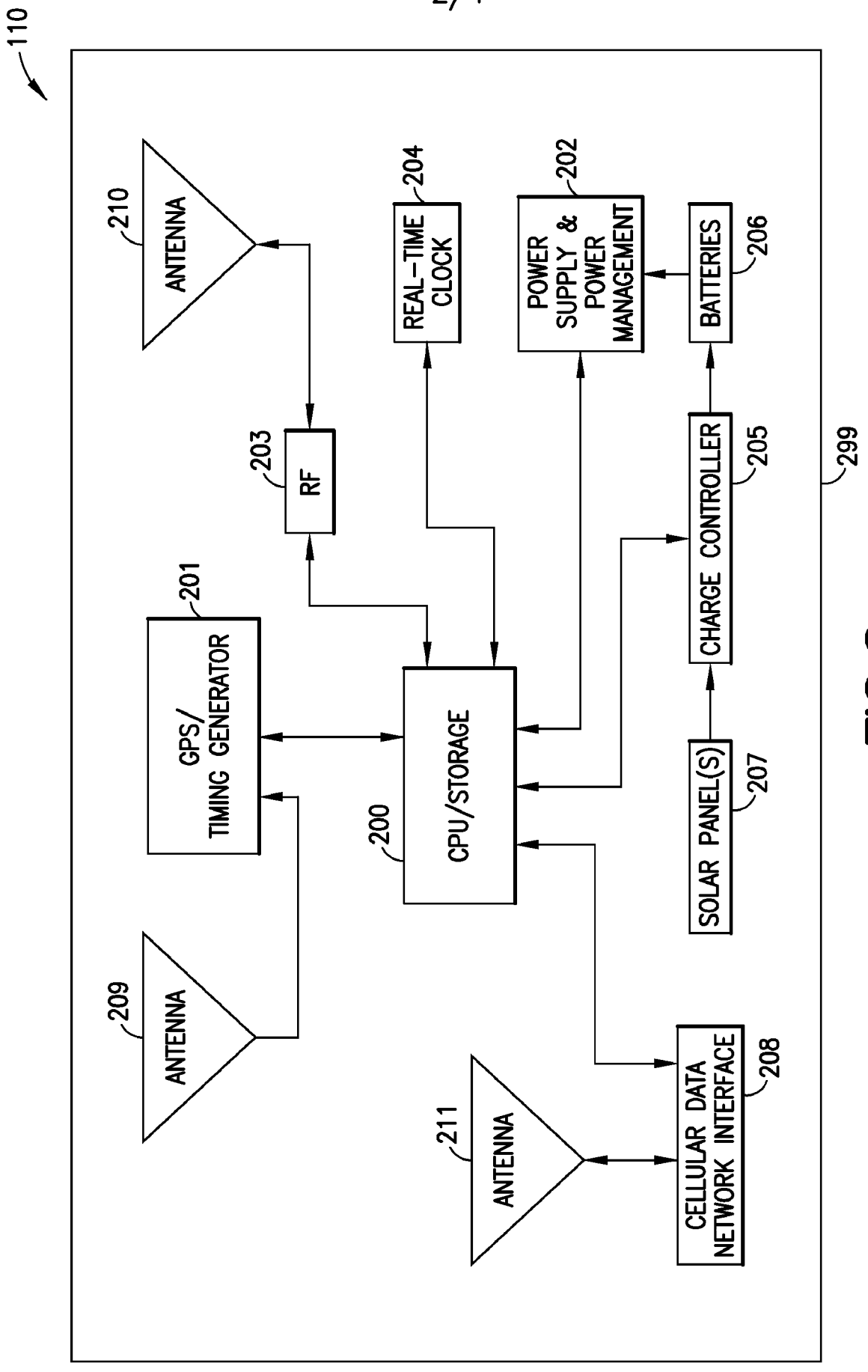

110
299
210
ANTENNA
204
REAL-TIME CLOCK
202
POWER SUPPLY & POWER MANAGEMENT
206
BATTERIES
203
RF
205
CHARGE CONTROLLER
201
GPS/ TIMING GENERATOR
200
CPU/STORAGE
207
SOLAR PANEL(S)
209
ANTENNA
211
ANTENNA
208
CELLULAR DATA NETWORK INTERFACE

FIG.2

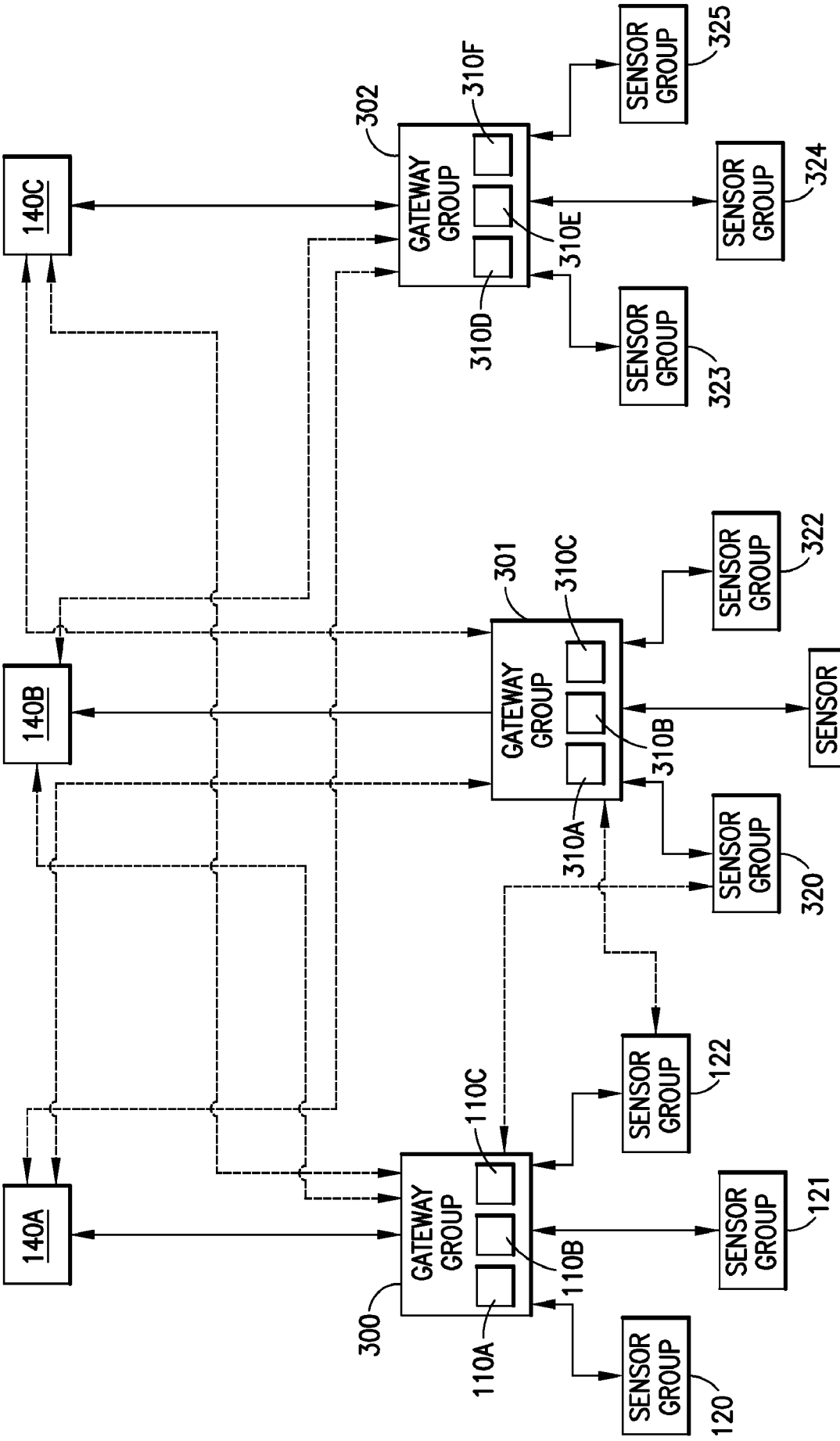

140C
140B
140A
GATEWAY GROUP
302
310F
310E
310D
301
310C
310B
310A
300
110C
110B
110A
SENSOR GROUP
325
324
323
322
321
320
122
121
120

FIG.3

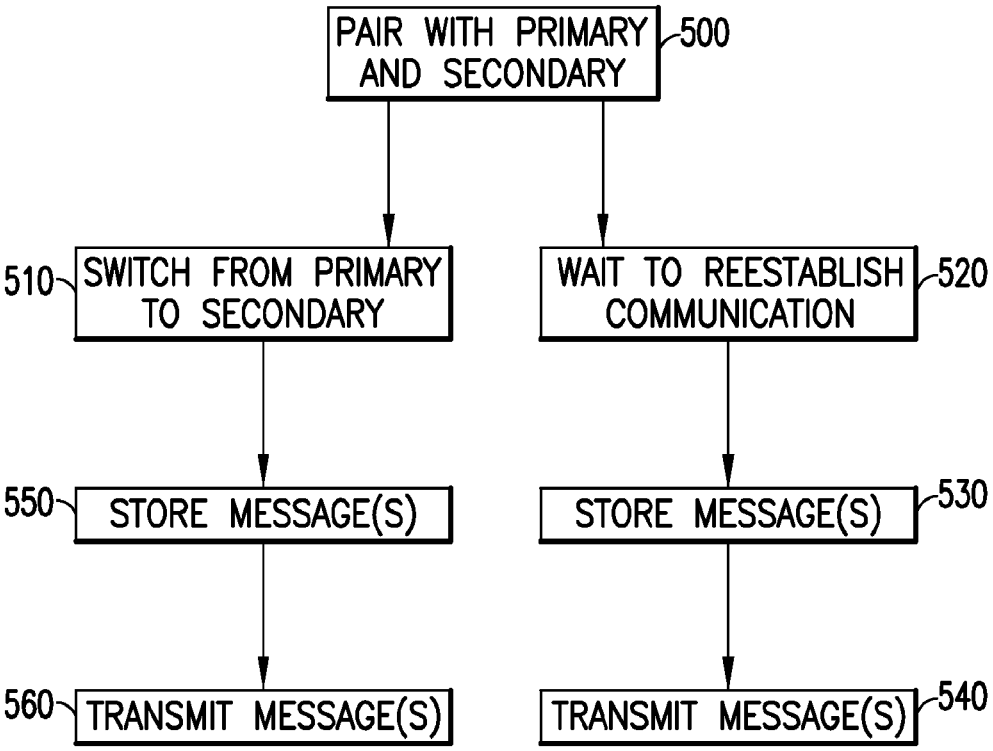

PAIR WITH PRIMARY AND SECONDARY
500
510
SWITCH FROM PRIMARY TO SECONDARY
WAIT TO REESTABLISH COMMUNICATION
520
550
STORE MESSAGE(S)
STORE MESSAGE(S)
530
560
TRANSMIT MESSAGE(S)
TRANSMIT MESSAGE(S)
540

FIG.4