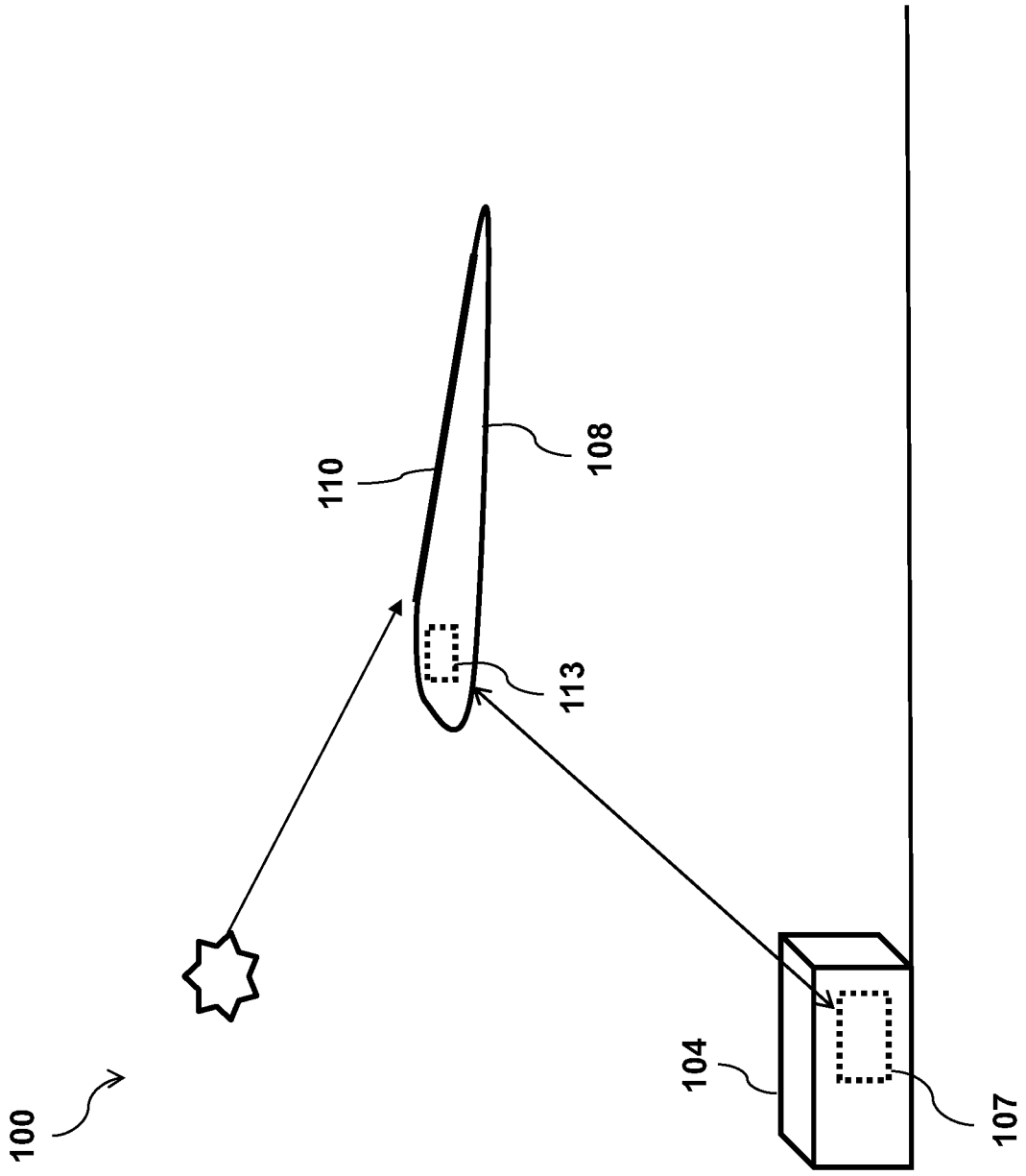

FIG. 1

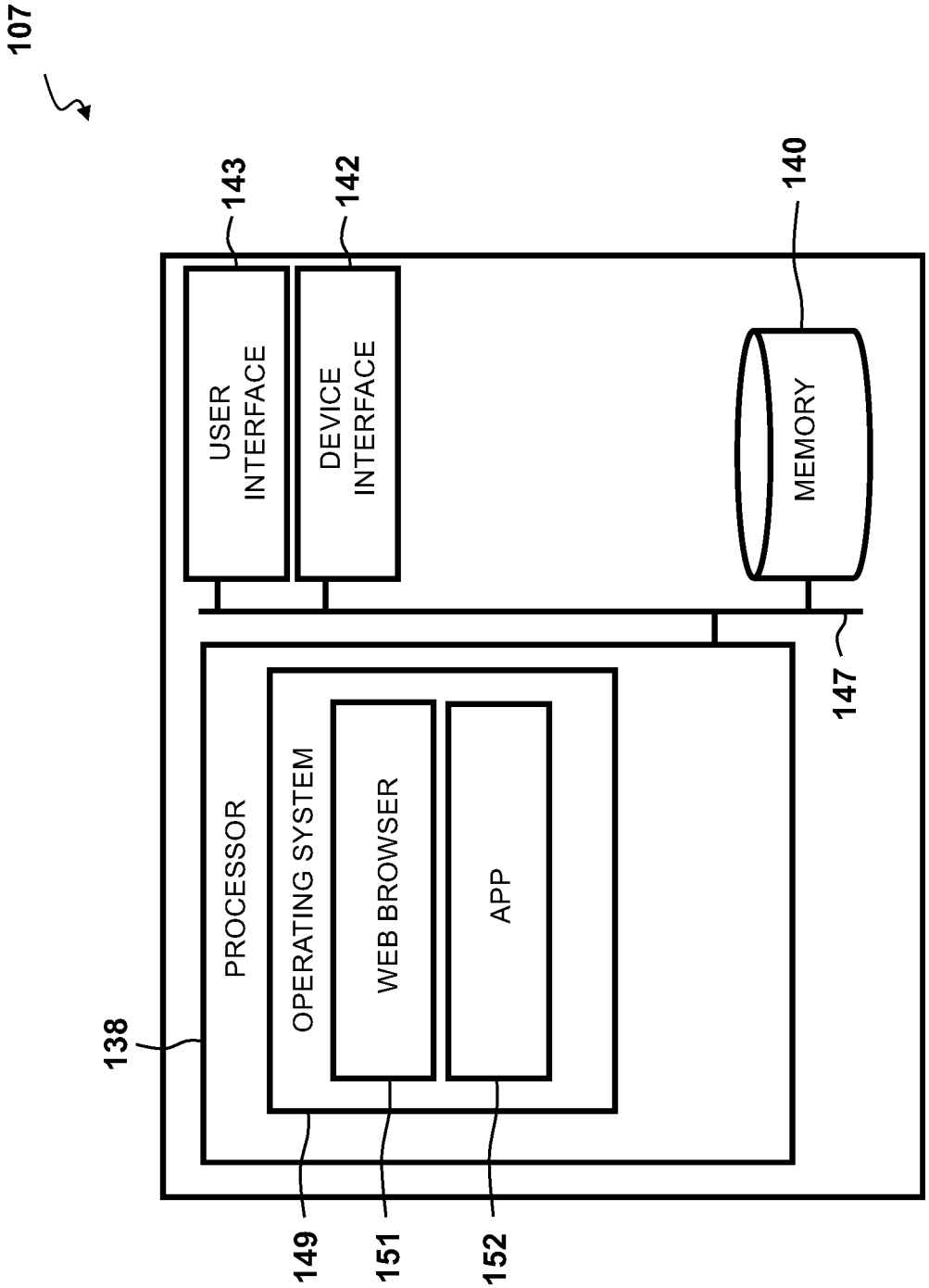
107
143
142
140
USER INTERFACE
DEVICE INTERFACE
MEMORY
147
PROCESSOR
OPERATING SYSTEM
WEB BROWSER
APP
138
149
151
152

FIG. 2

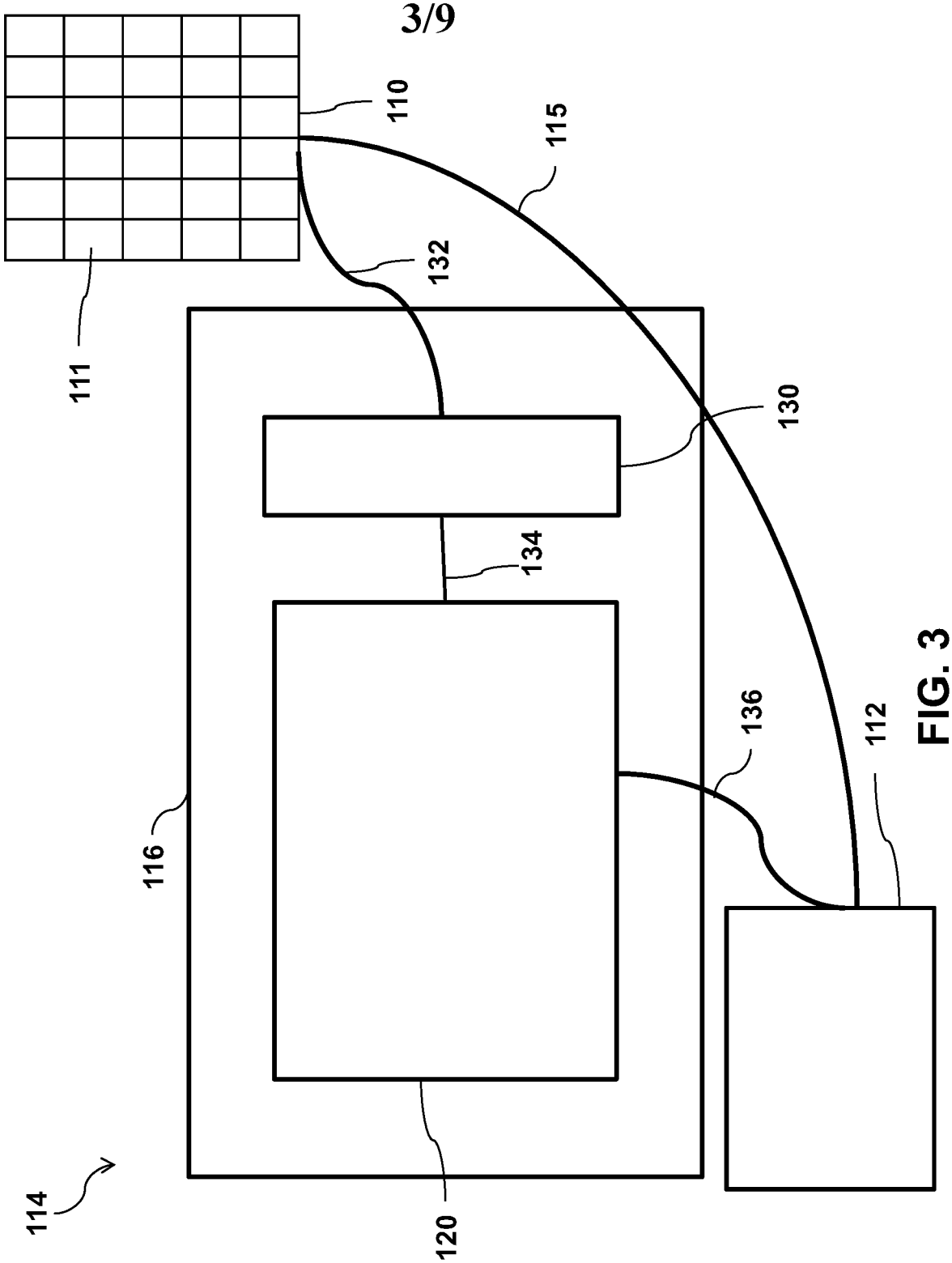

FIG. 3

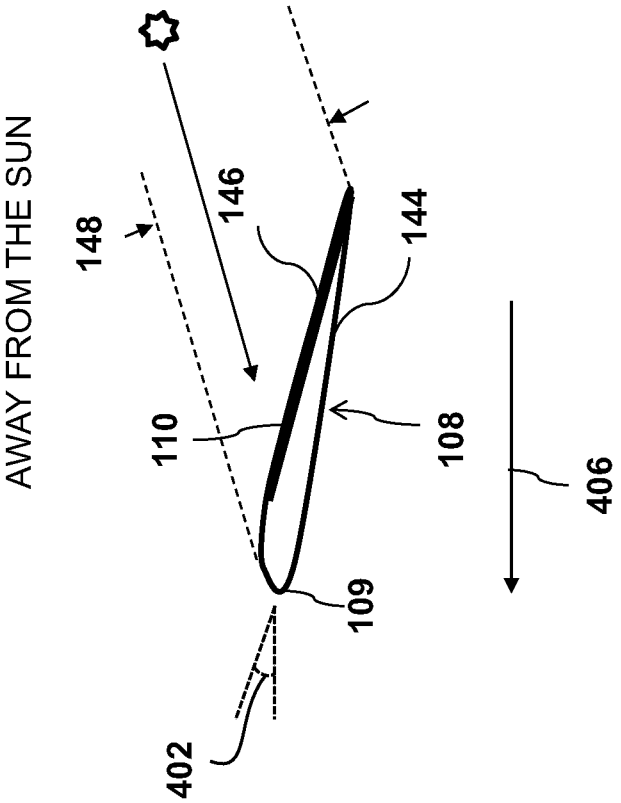
AWAY FROM THE SUN
148
146
144
110
108
109
406
402

FIG. 4B

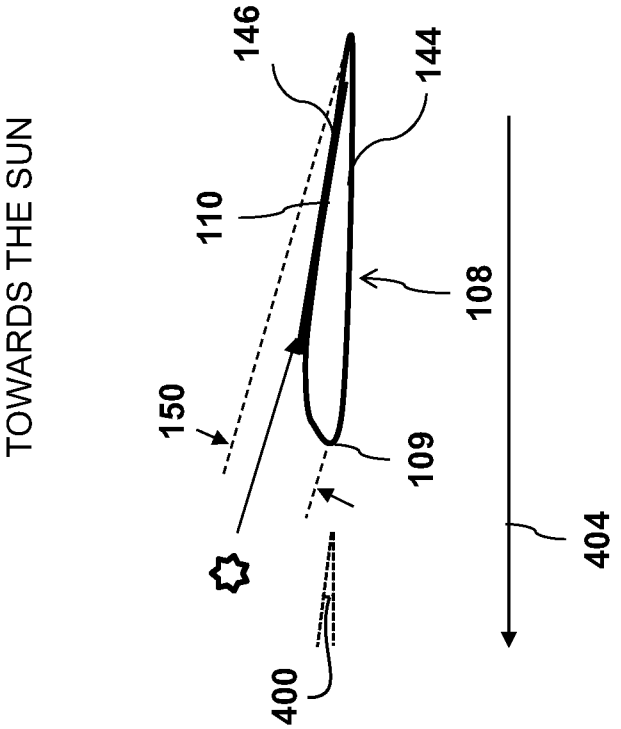
TOWARDS THE SUN
146
144
110
108
150
109
404
400

FIG. 4A

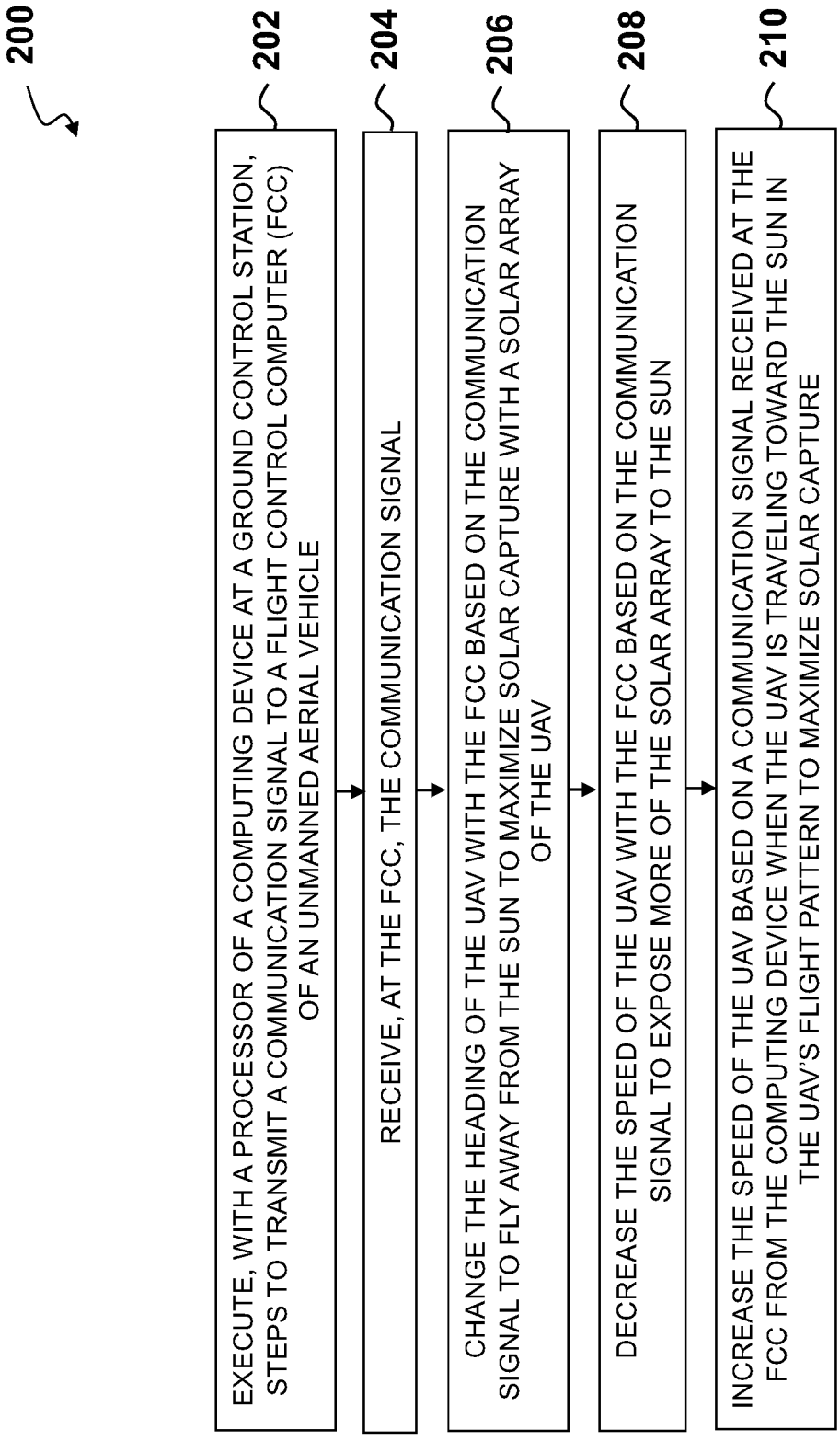
200
202
EXECUTE, WITH A PROCESSOR OF A COMPUTING DEVICE AT A GROUND CONTROL STATION, STEPS TO TRANSMIT A COMMUNICATION SIGNAL TO A FLIGHT CONTROL COMPUTER (FCC) OF AN UNMANNED AERIAL VEHICLE
204
RECEIVE, AT THE FCC, THE COMMUNICATION SIGNAL
206
CHANGE THE HEADING OF THE UAV WITH THE FCC BASED ON THE COMMUNICATION SIGNAL TO FLY AWAY FROM THE SUN TO MAXIMIZE SOLAR CAPTURE WITH A SOLAR ARRAY OF THE UAV
208
DECREASE THE SPEED OF THE UAV WITH THE FCC BASED ON THE COMMUNICATION SIGNAL TO EXPOSE MORE OF THE SOLAR ARRAY TO THE SUN
210
INCREASE THE SPEED OF THE UAV BASED ON A COMMUNICATION SIGNAL RECEIVED AT THE FCC FROM THE COMPUTING DEVICE WHEN THE UAV IS TRAVELING TOWARD THE SUN IN THE UAV'S FLIGHT PATTERN TO MAXIMIZE SOLAR CAPTURE

FIG. 5

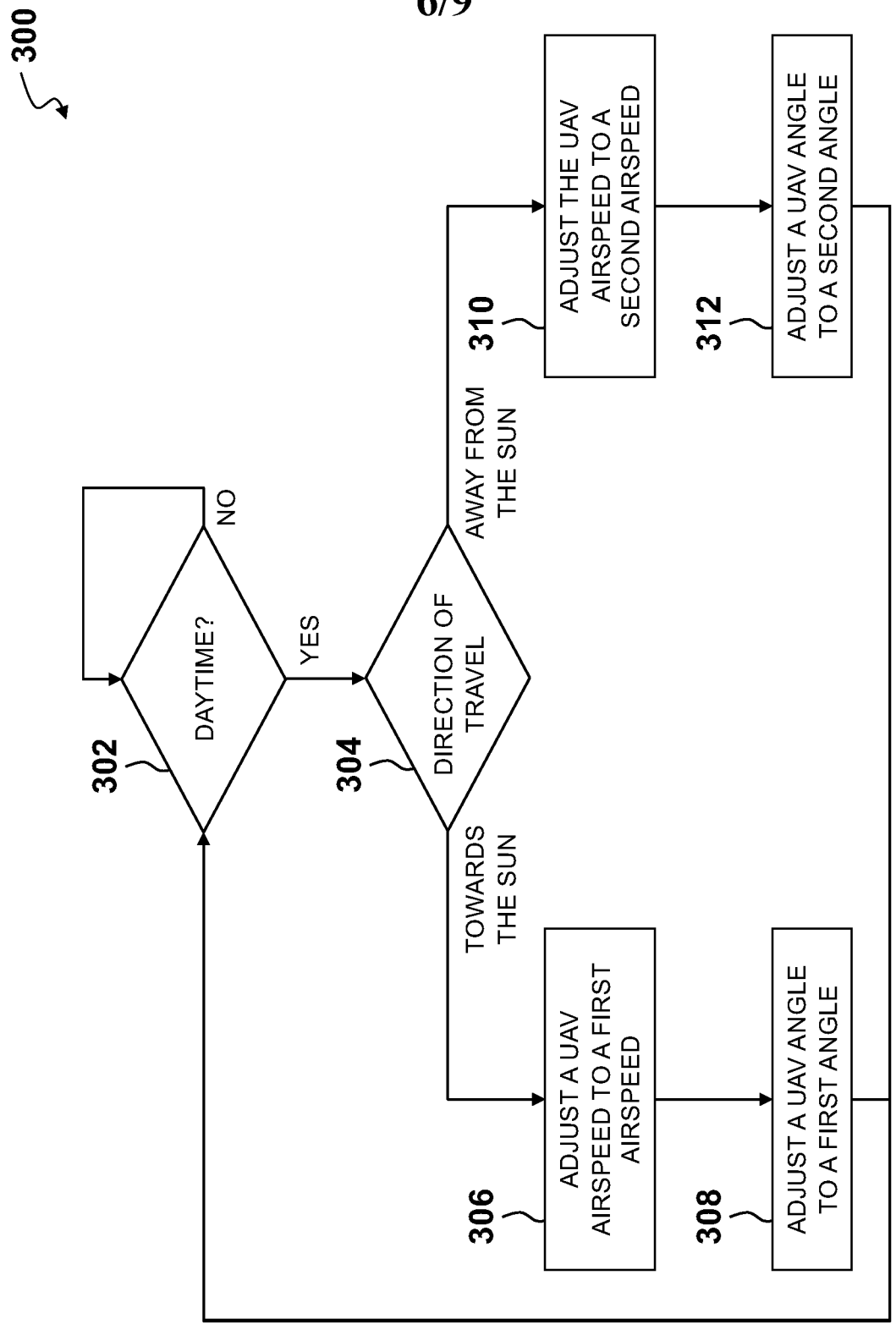
300
302
DAYTIME?
NO
YES
304
DIRECTION OF TRAVEL
AWAY FROM THE SUN
TOWARDS THE SUN
310
ADJUST THE UAV AIRSPEED TO A SECOND AIRSPEED
312
ADJUST A UAV ANGLE TO A SECOND ANGLE
306
ADJUST A UAV AIRSPEED TO A FIRST AIRSPEED
308
ADJUST A UAV ANGLE TO A FIRST ANGLE

FIG. 6

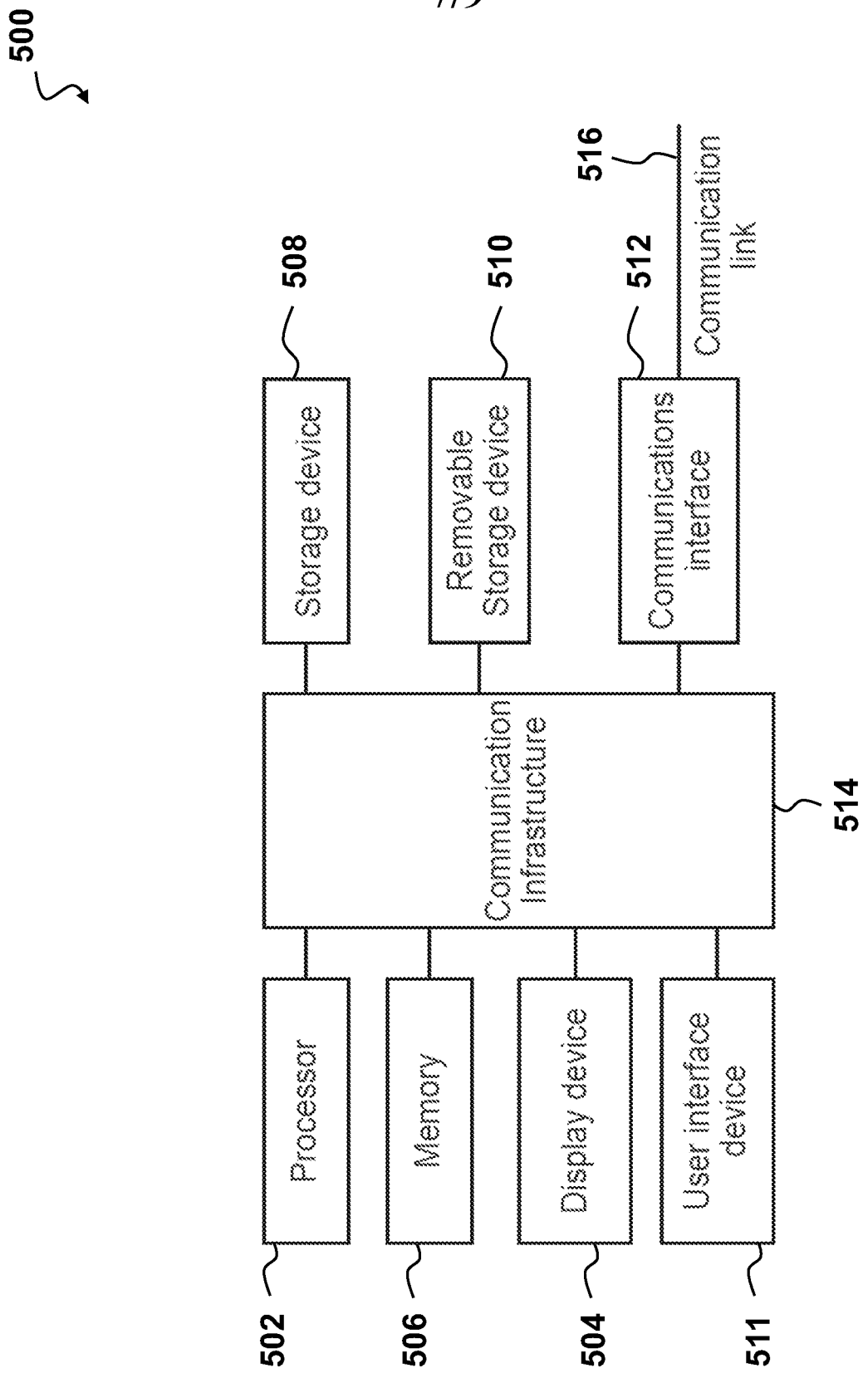
500
516
Communication link
508
510
512
Storage device
Removable Storage device
Communications interface
Communication Infrastructure
514
Processor
Memory
Display device
User interface device
502
506
504
511

FIG. 7

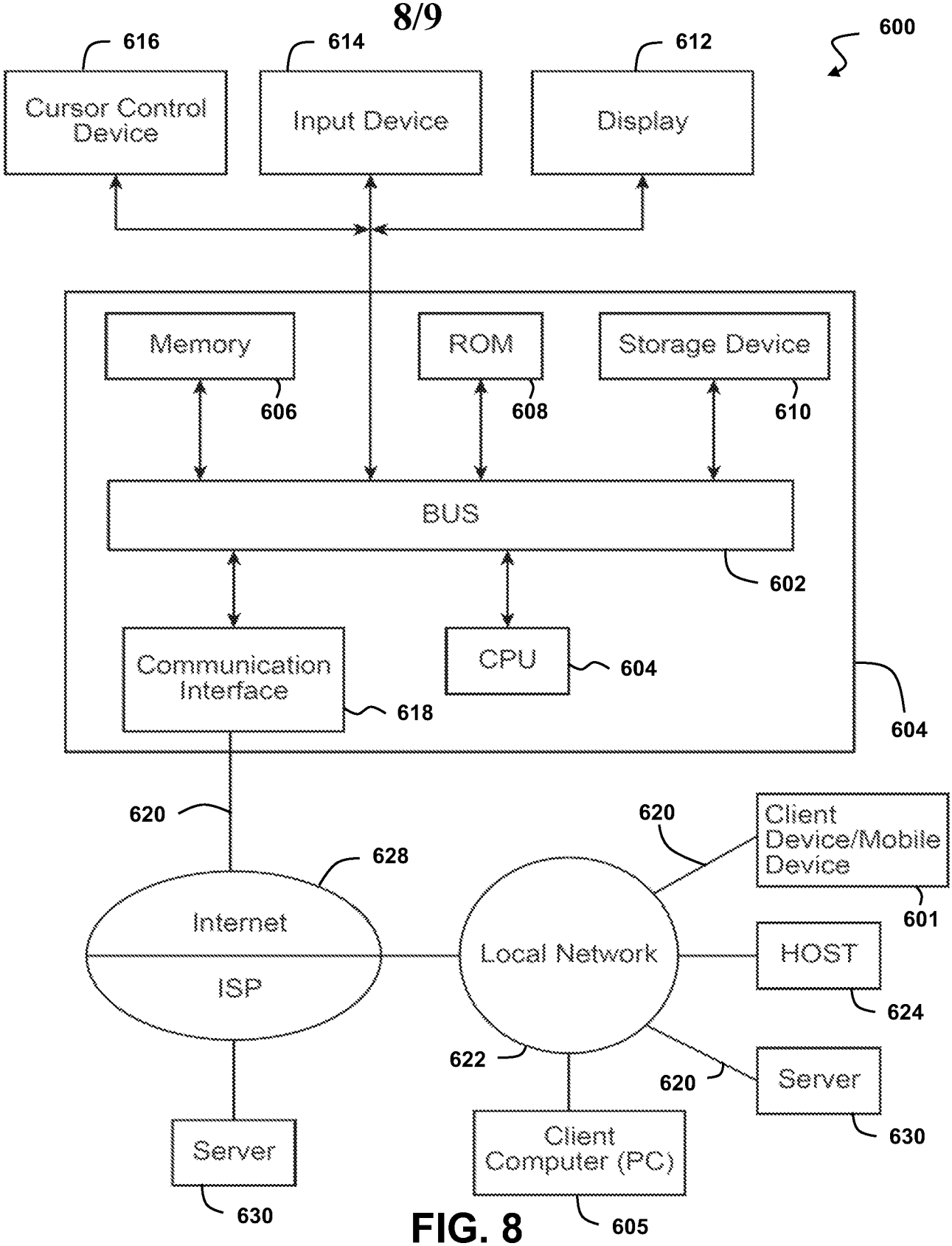
600
616
Cursor Control Device
614
Input Device
612
Display
Memory
606
ROM
608
Storage Device
610
BUS
602
Communication Interface
618
CPU
604
604
620
628
Internet
ISP
620
Client Device/Mobile Device
601
Local Network
HOST
624
622
620
Server
630
Server
630
Client Computer (PC)
605

FIG. 8

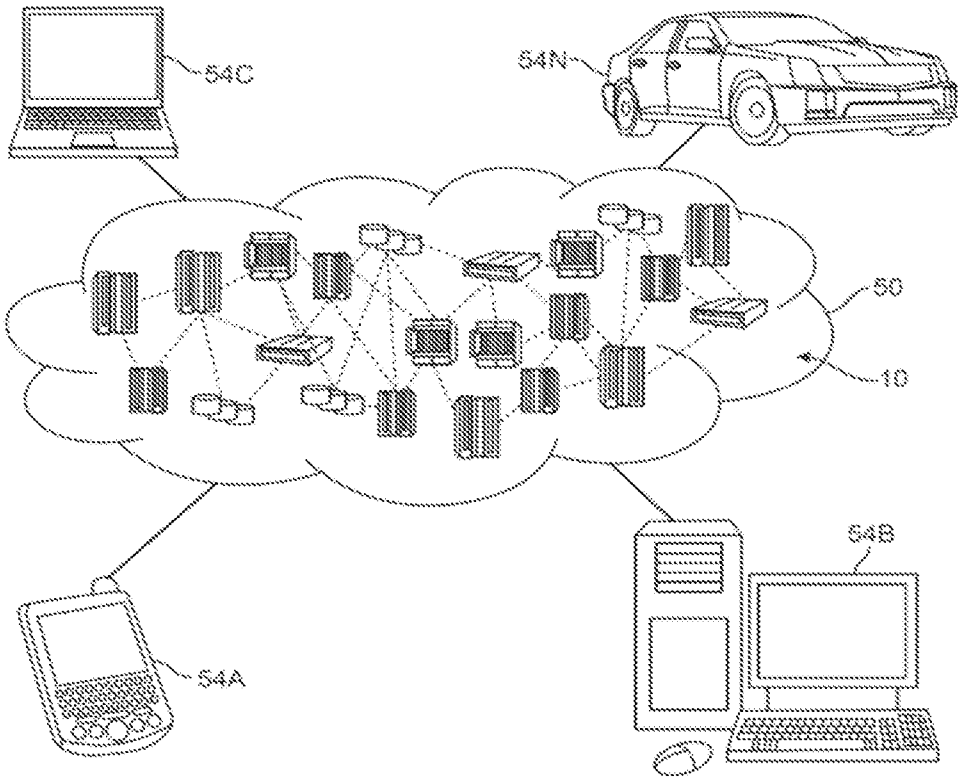

FIG. 9