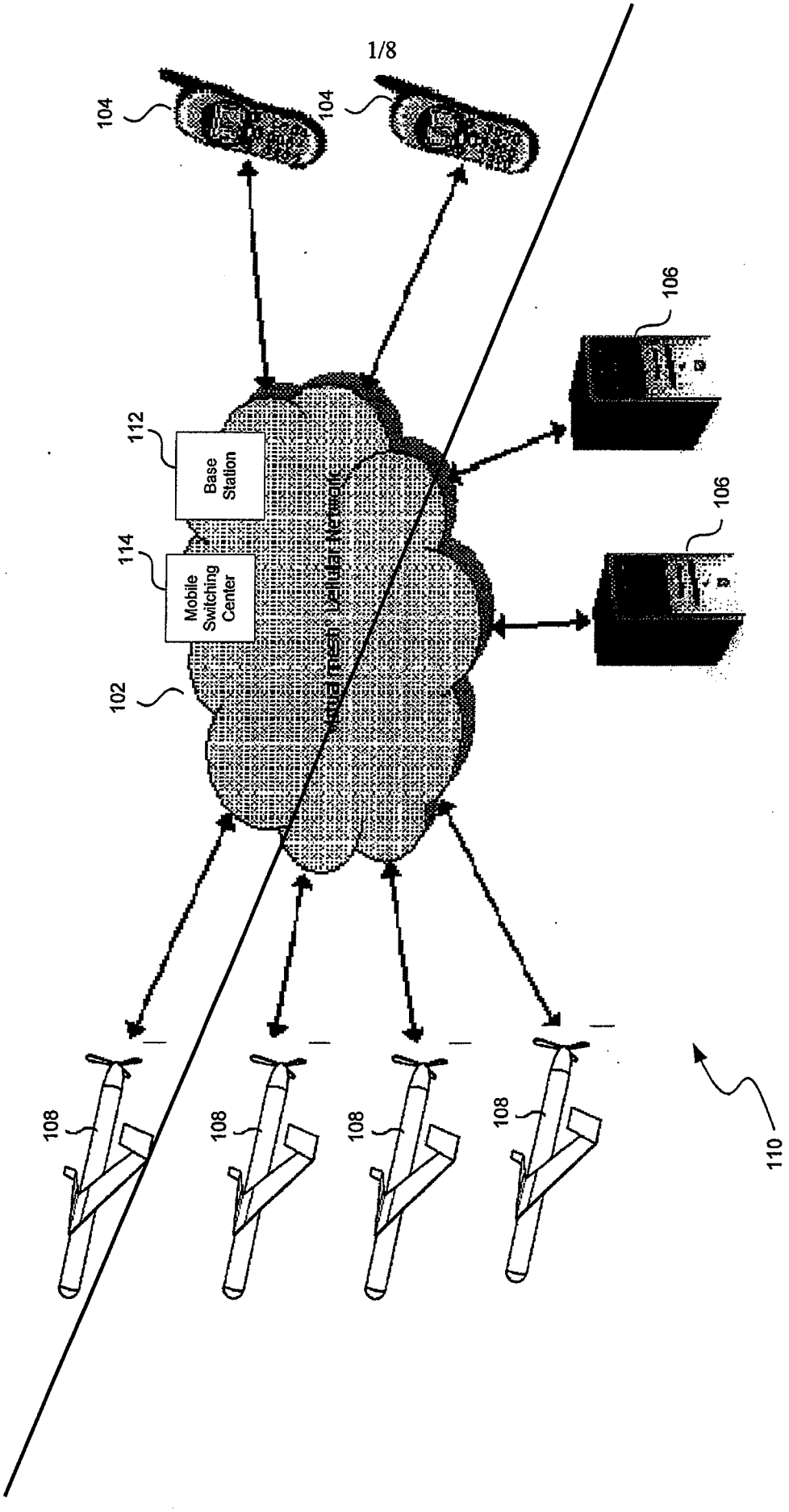

104
104
106
106
112
Base Station
114
Mobile Switching Center
102
108
108
108
108
110

FIG. 1

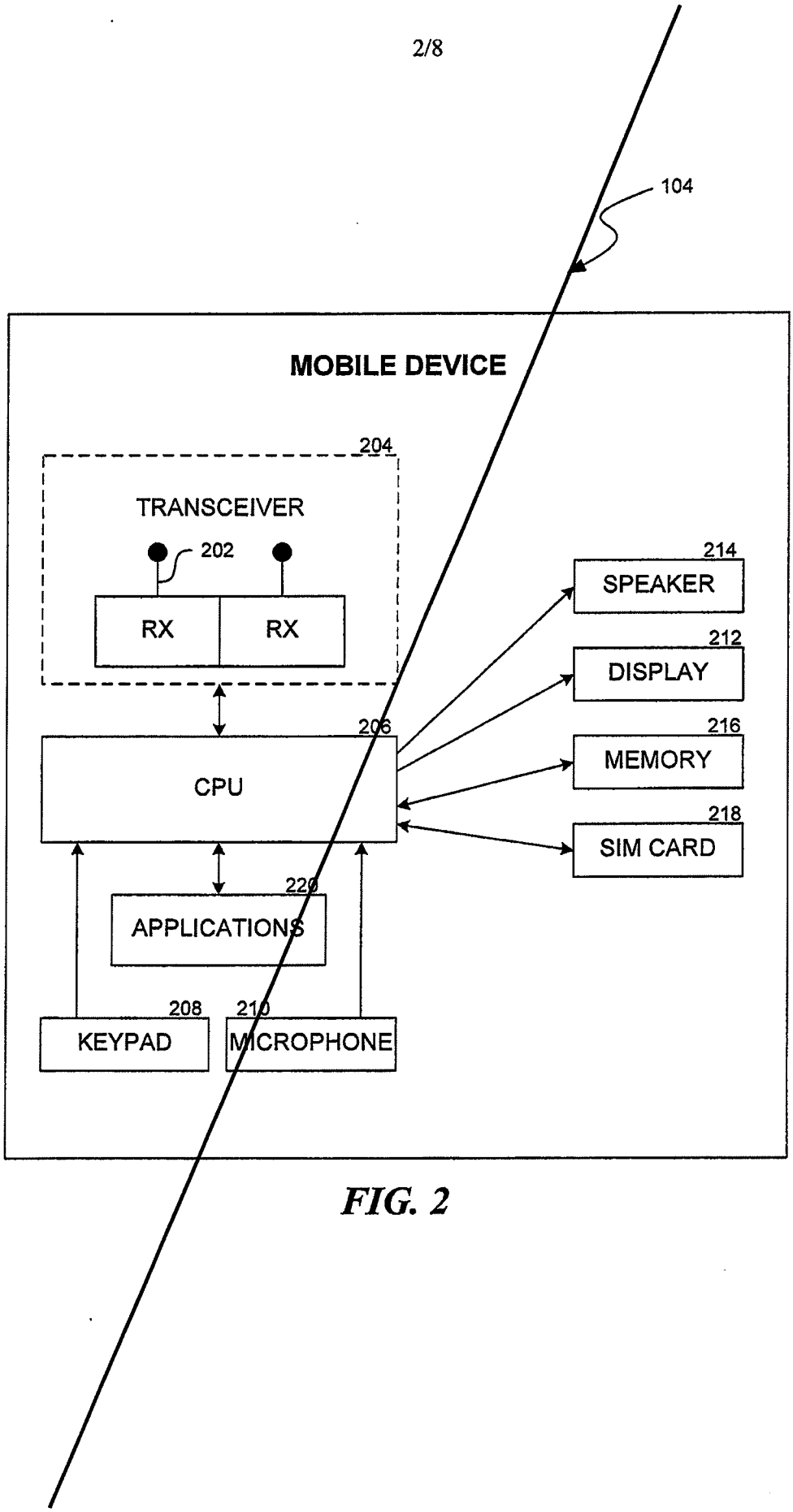

104
MOBILE DEVICE
204
TRANSCEIVER
202
RX
RX
214
SPEAKER
212
DISPLAY
216
MEMORY
218
SIM CARD
206
CPU
220
APPLICATIONS
208
KEYPAD
210
MICROPHONE

FIG. 2

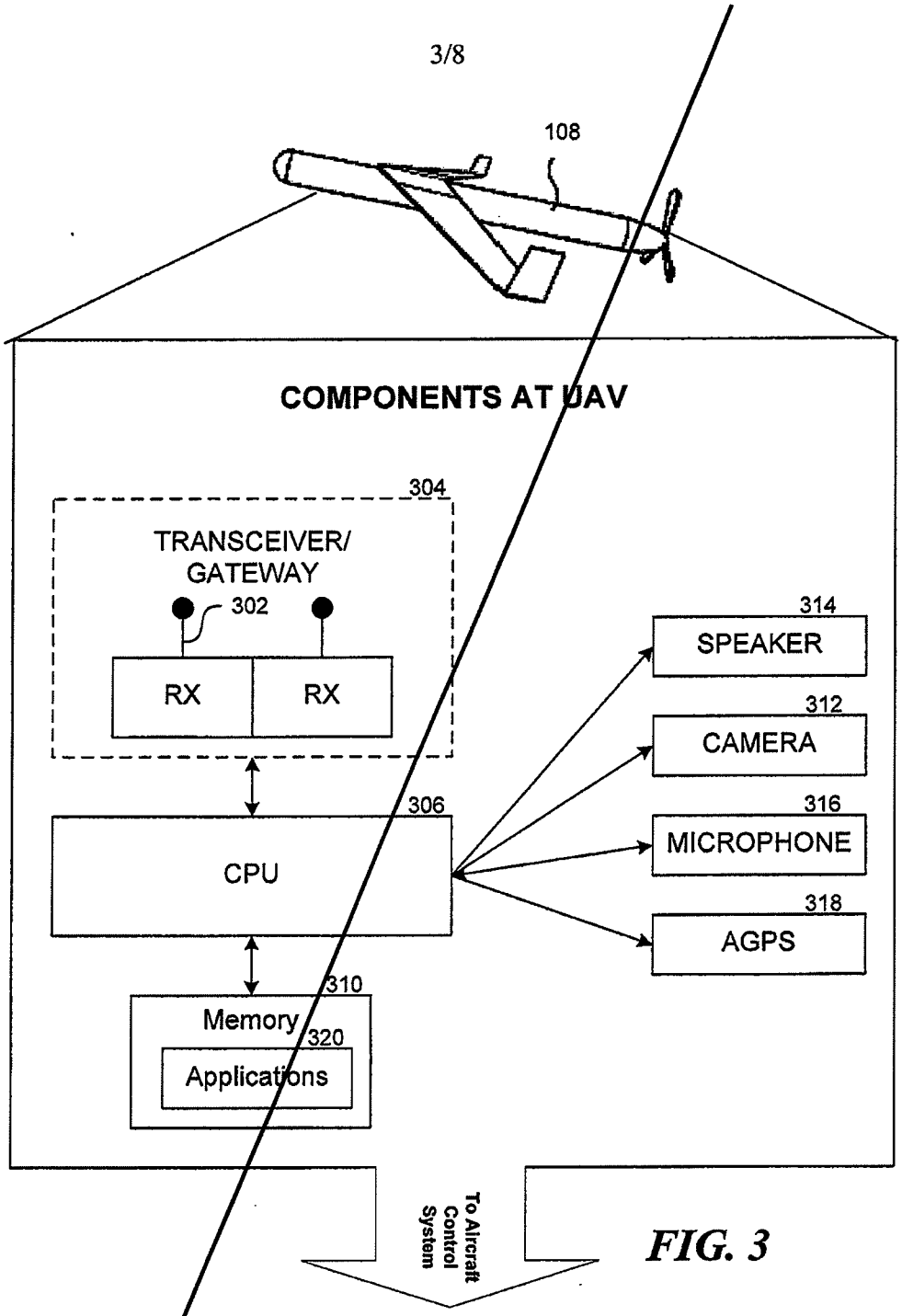

108
COMPONENTS AT UAV
304
TRANSCEIVER/
GATEWAY
302
RX
RX
306
CPU
310
Memory
320
Applications
314
SPEAKER
312
CAMERA
316
MICROPHONE
318
AGPS
To Aircraft
Control
System

FIG. 3

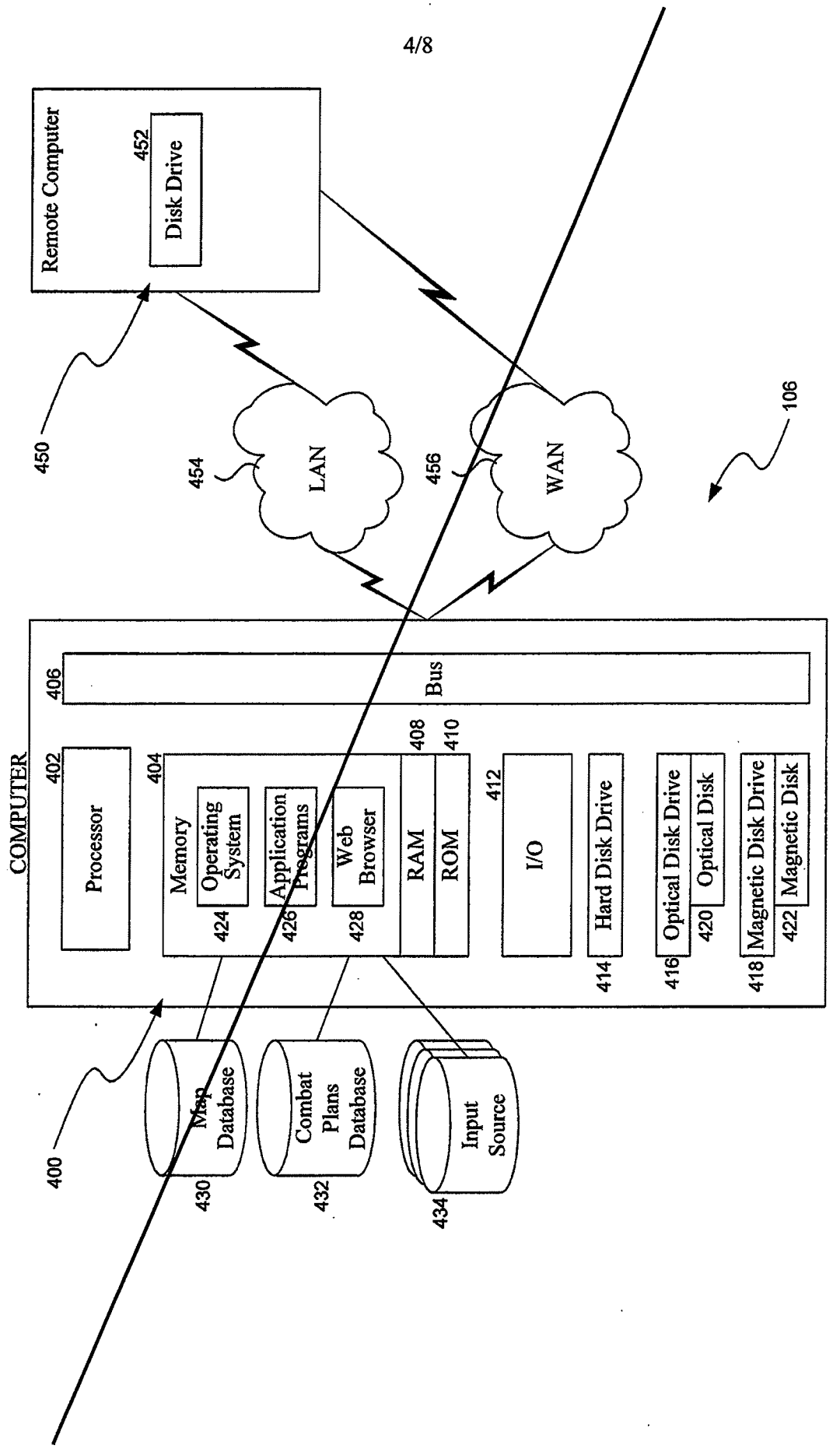

Remote Computer
452
Disk Drive
450
454
LAN
456
WAN
106
COMPUTER
406
Bus
402
Processor
404
Memory
Operating System
424
Application Programs
426
Web Browser
428
408
RAM
410
ROM
412
I/O
Hard Disk Drive
414
Optical Disk Drive
416
Optical Disk
420
Magnetic Disk Drive
418
Magnetic Disk
422
400
Map Database
430
Combat Plans Database
432
Input Source
434

FIG. 4

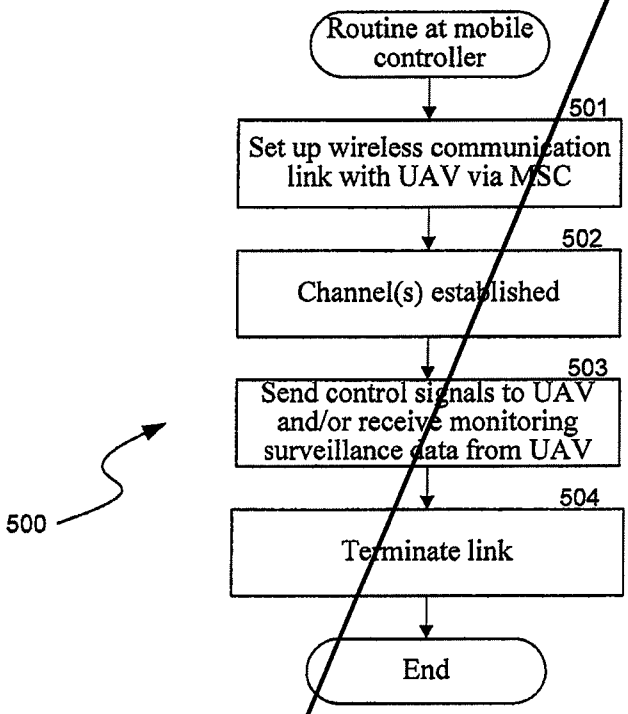

Routine at mobile controller
501
Set up wireless communication link with UAV via MSC
502
Channel(s) established
503
Send control signals to UAV and/or receive monitoring surveillance data from UAV
504
Terminate link
End
500

FIG. 5

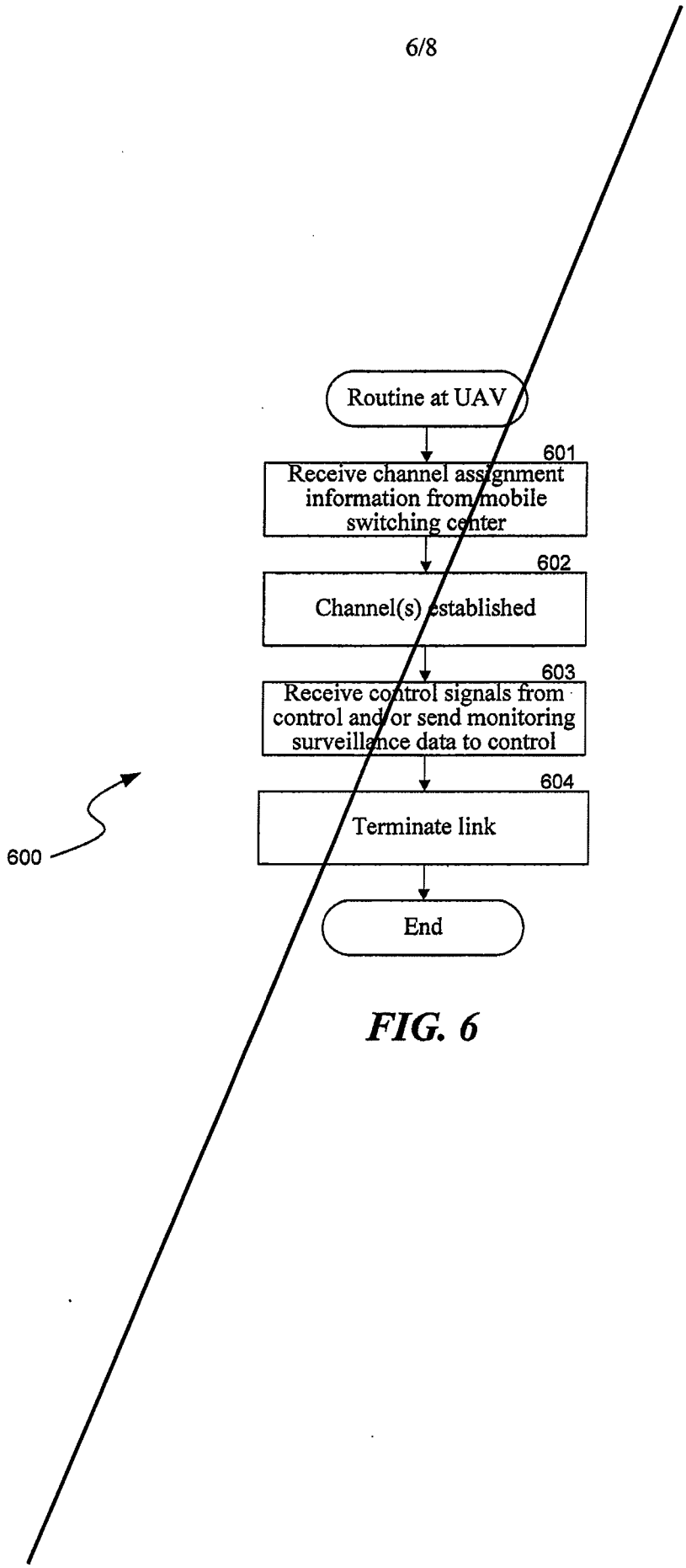

Routine at UAV
601
Receive channel assignment information from mobile switching center
602
Channel(s) established
603
Receive control signals from control and/or send monitoring surveillance data to control
604
Terminate link
End
600

FIG. 6

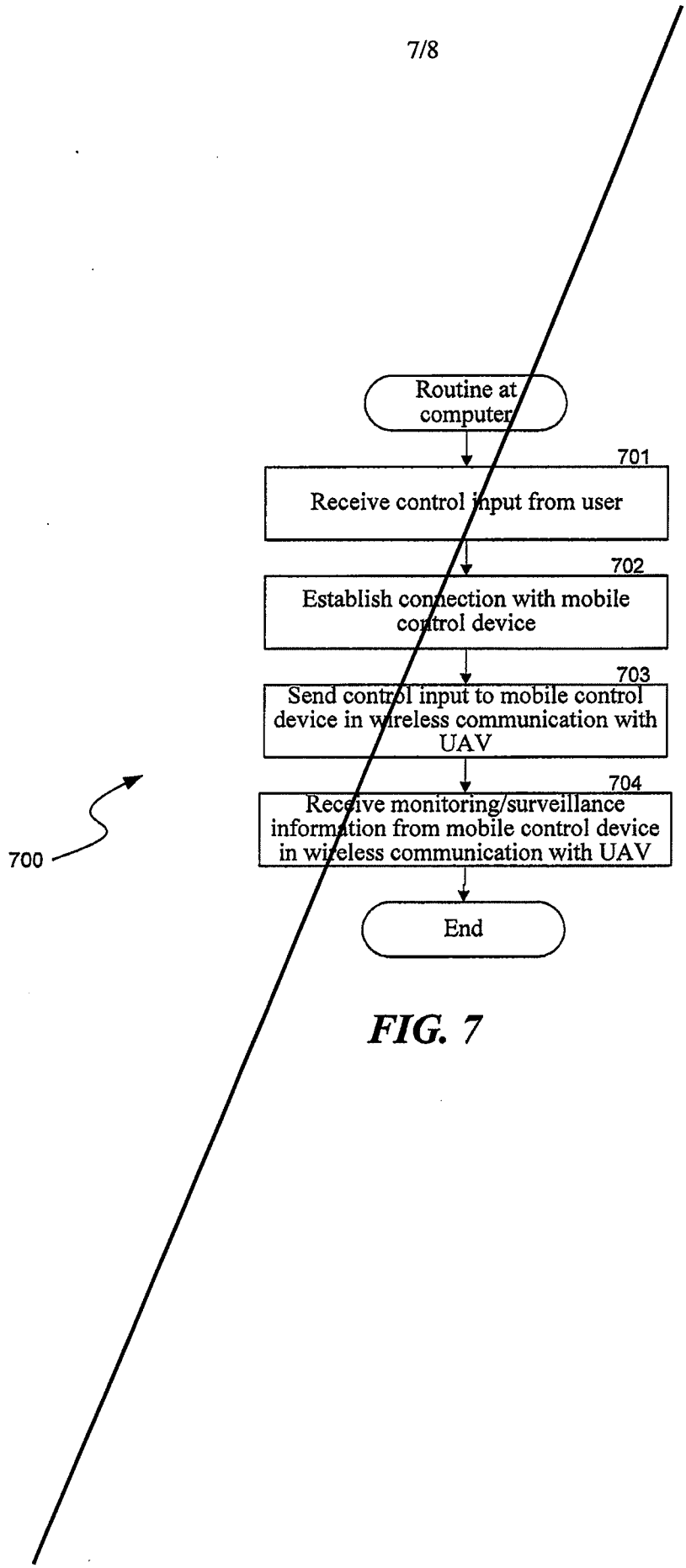

Routine at computer
701
Receive control input from user
702
Establish connection with mobile control device
703
Send control input to mobile control device in wireless communication with UAV
704
Receive monitoring/surveillance information from mobile control device in wireless communication with UAV
End
700

FIG. 7

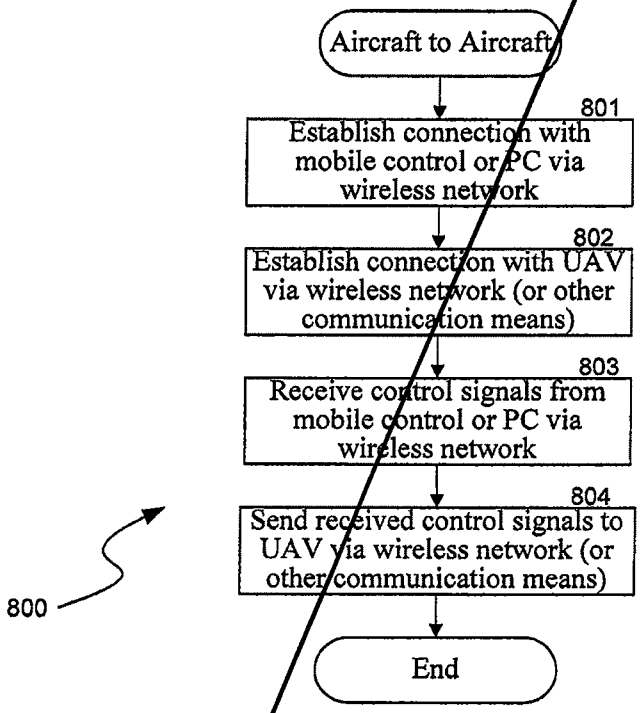
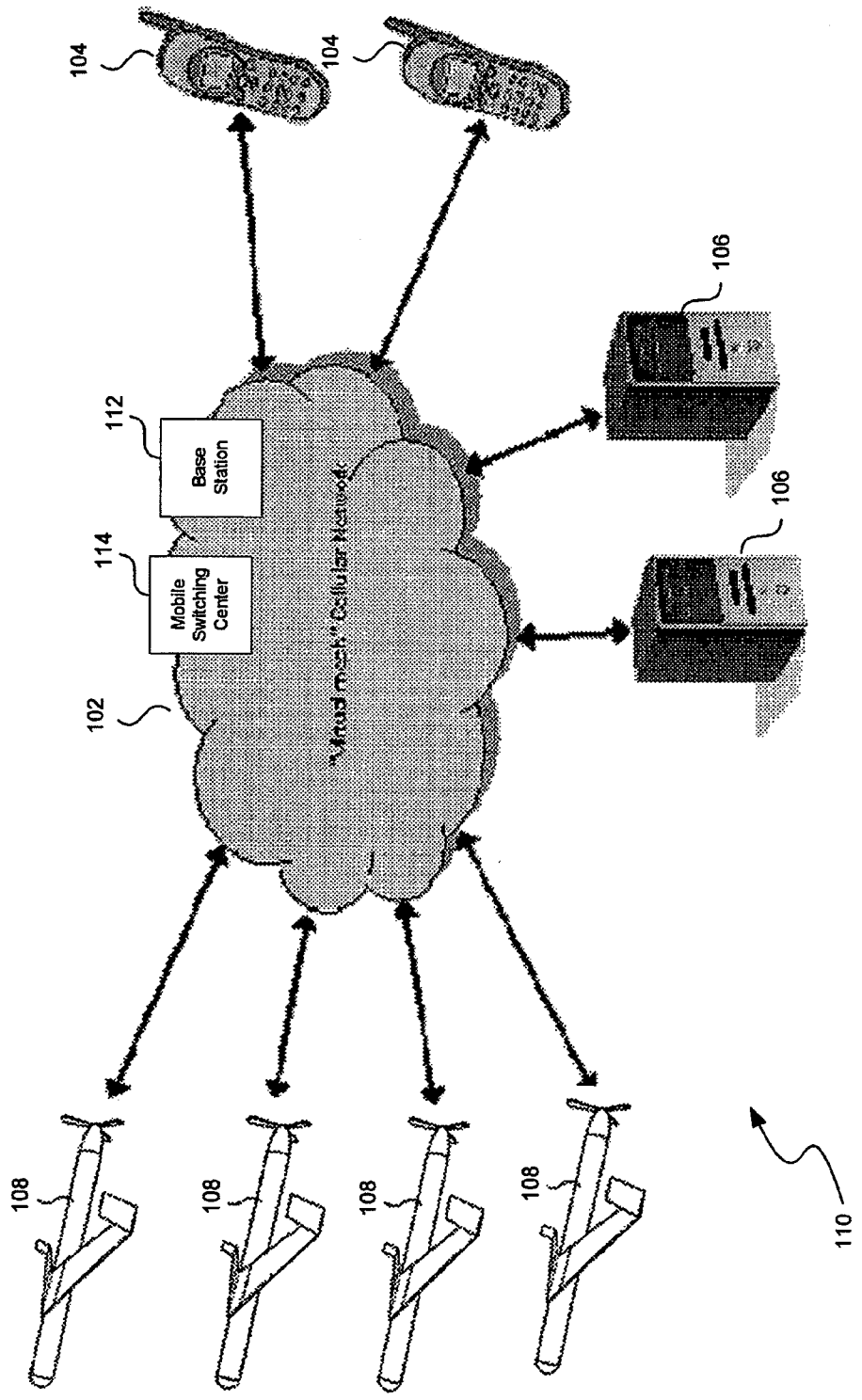

Aircraft to Aircraft
801
Establish connection with mobile control or PC via wireless network
802
Establish connection with UAV via wireless network (or other communication means)
803
Receive control signals from mobile control or PC via wireless network
804
Send received control signals to UAV via wireless network (or other communication means)
End
800

FIG. 8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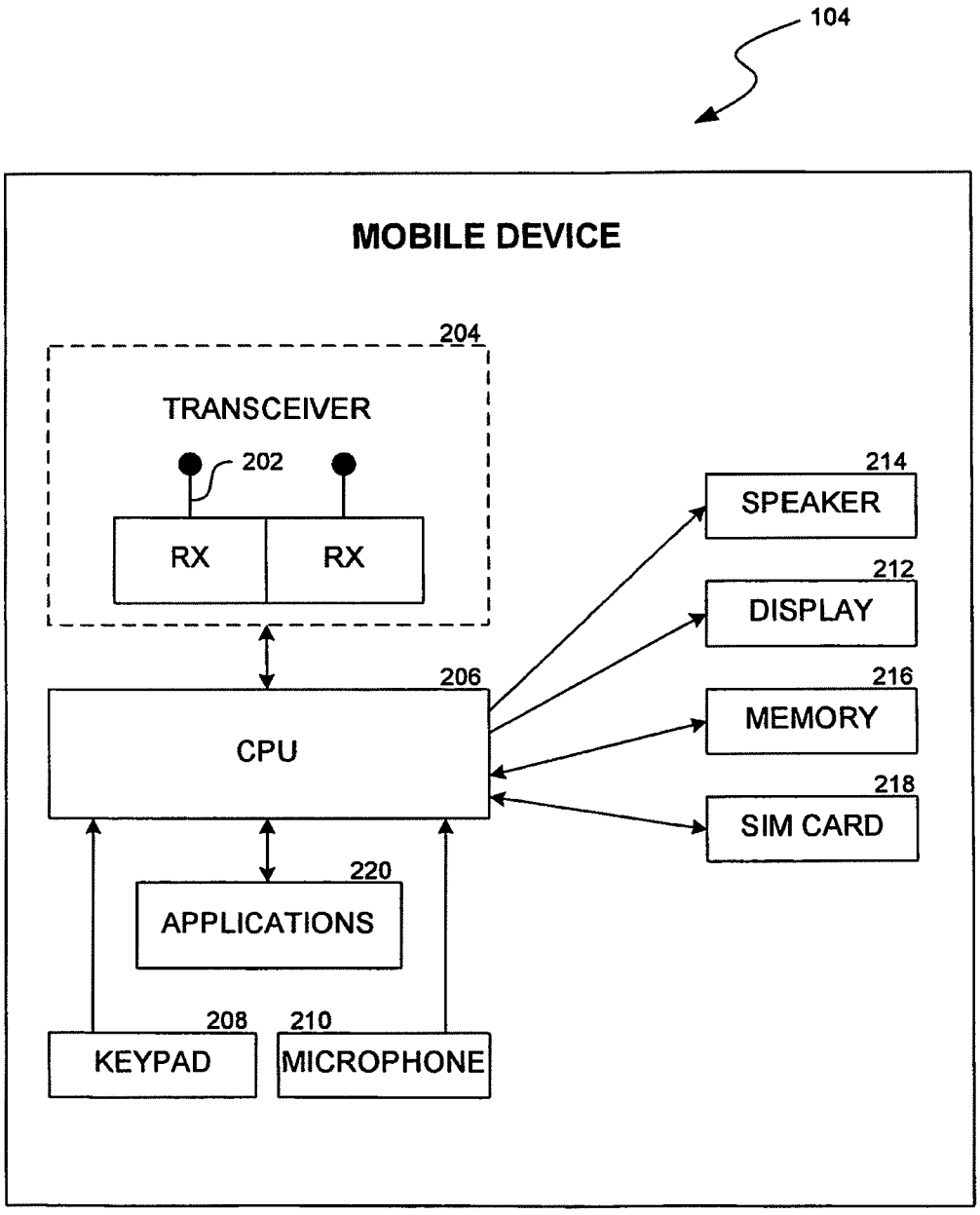
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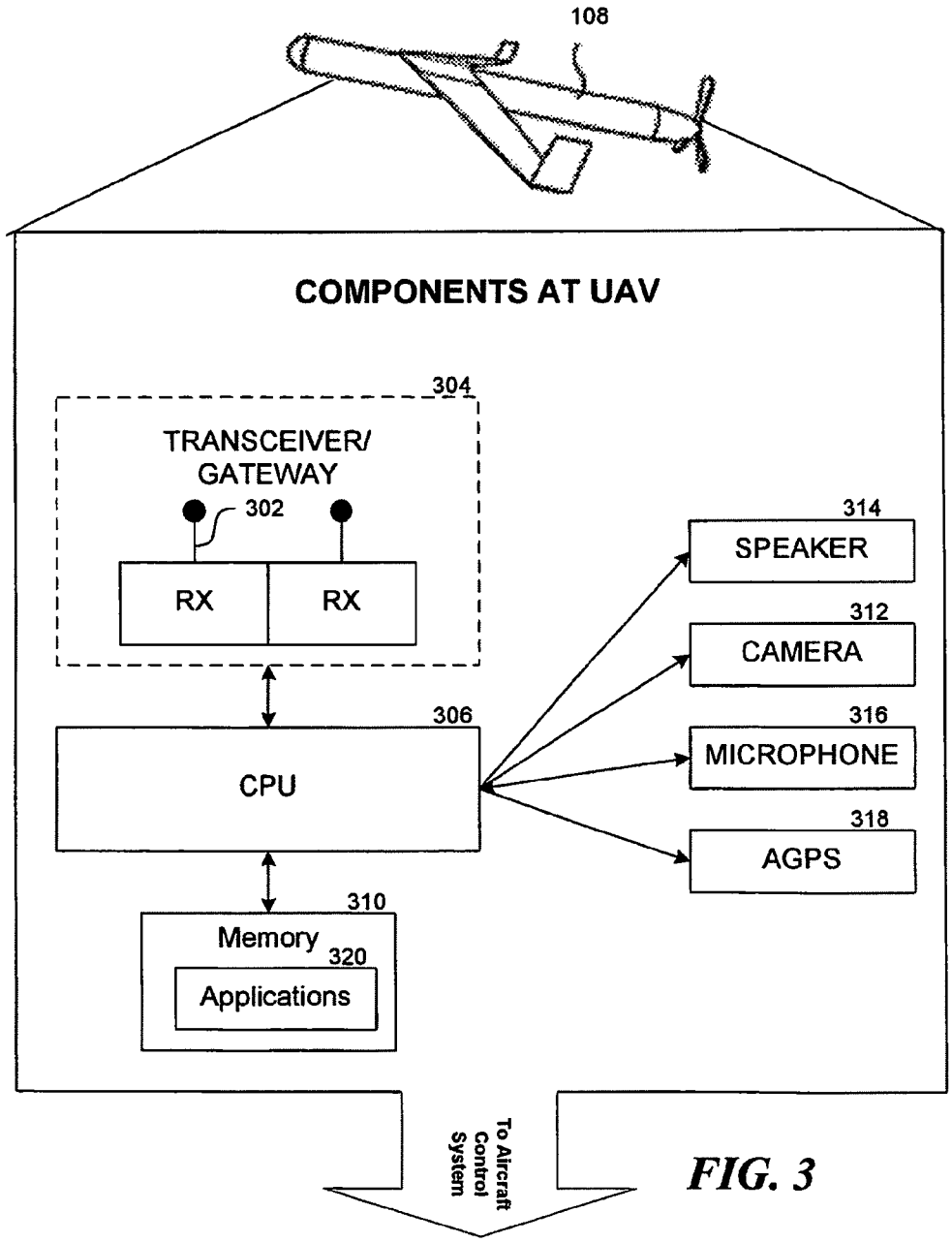
FIG. 2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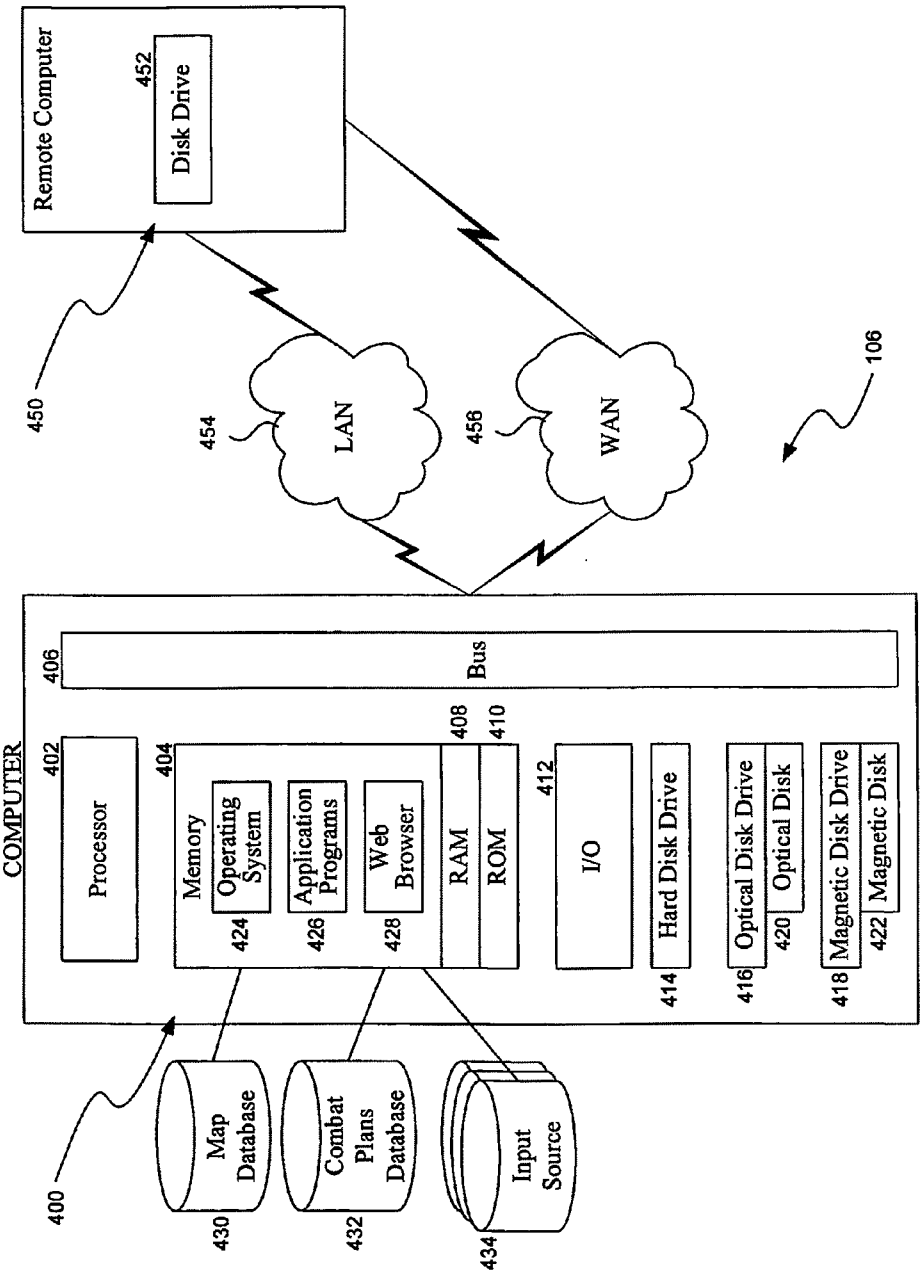
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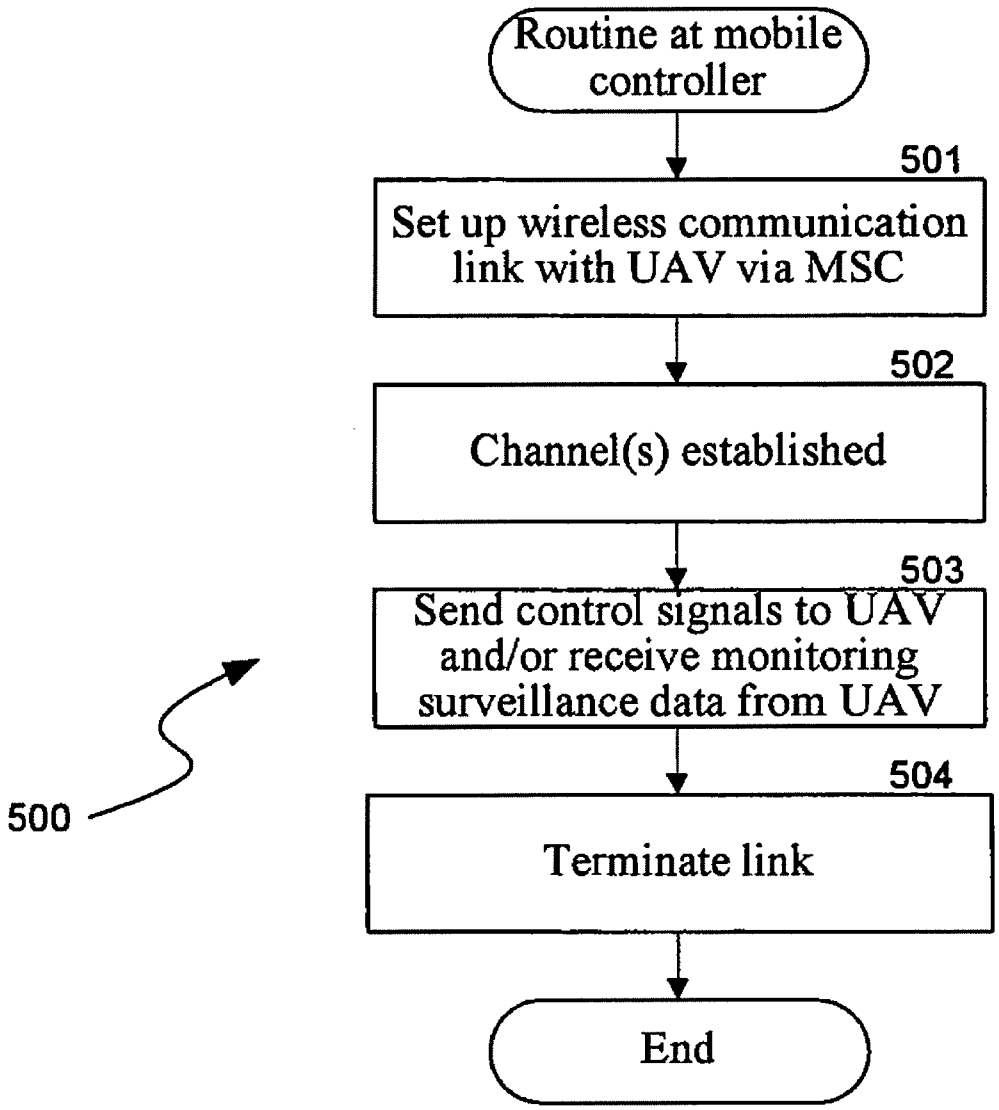
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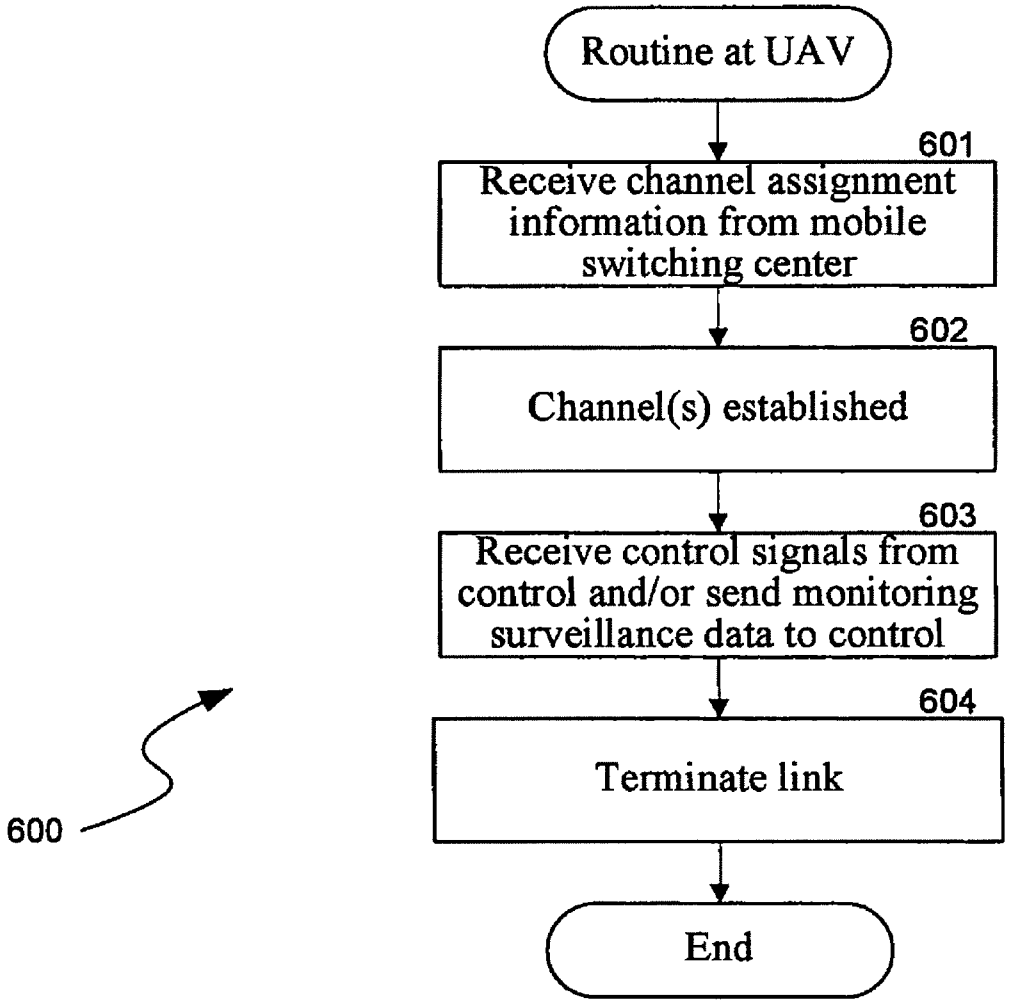
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End
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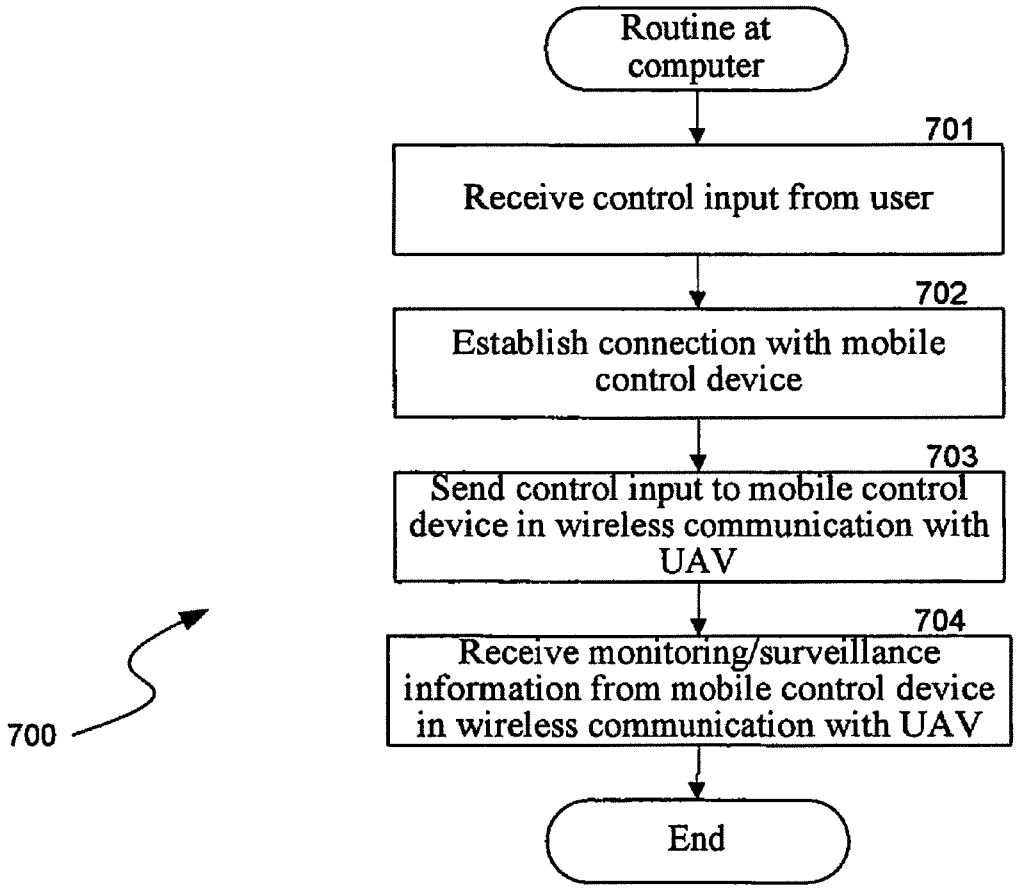
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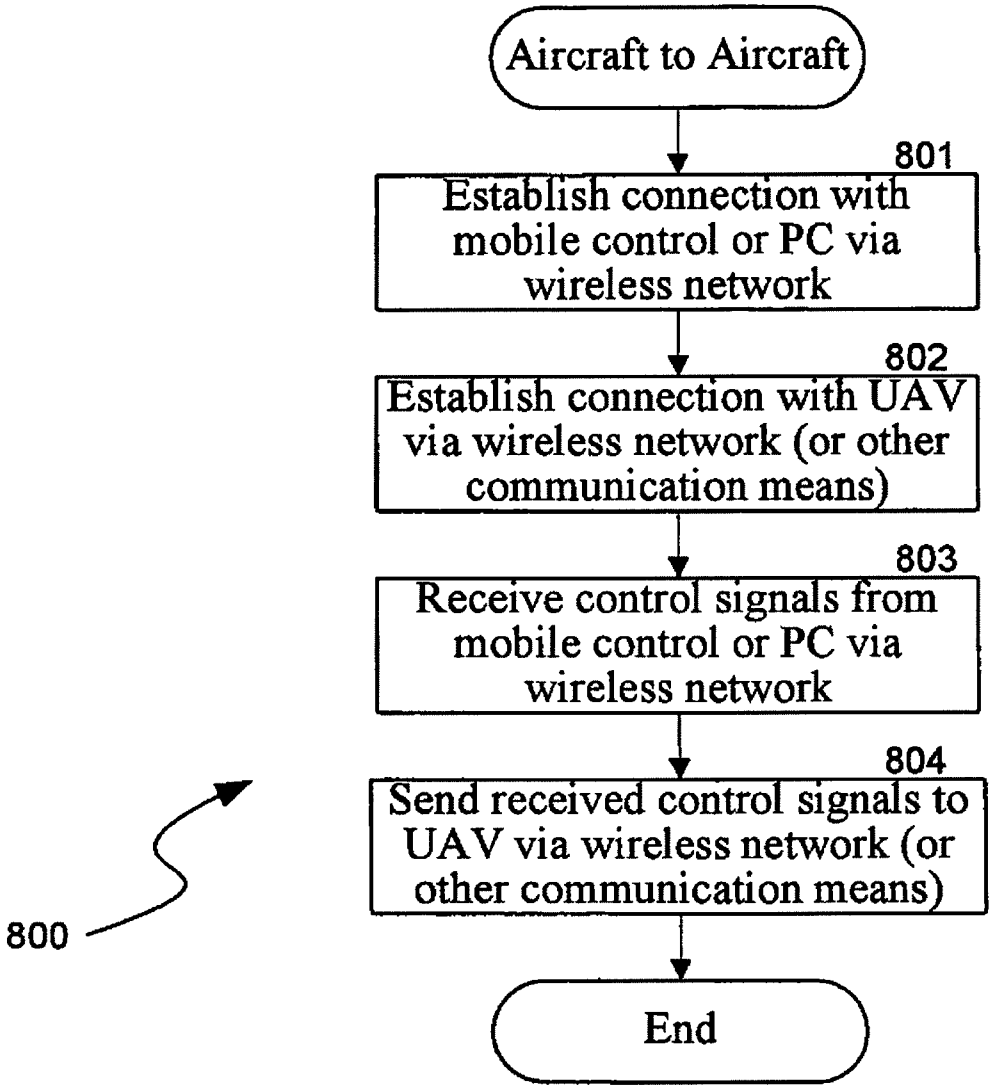
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