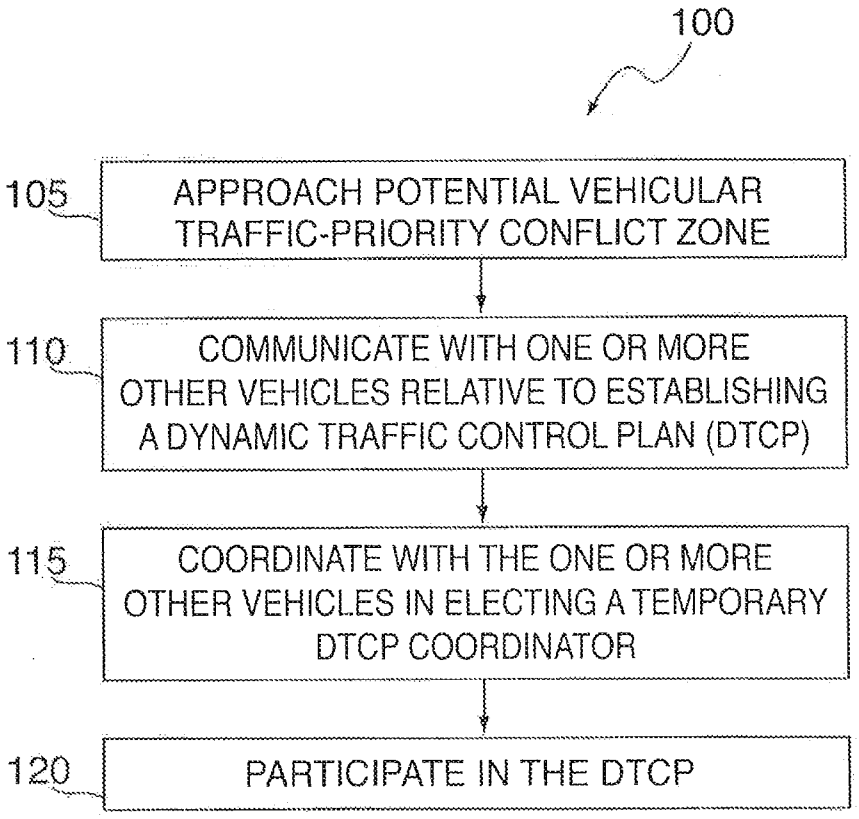

100
105
APPROACH POTENTIAL VEHICULAR TRAFFIC-PRIORITY CONFLICT ZONE
110
COMMUNICATE WITH ONE OR MORE OTHER VEHICLES RELATIVE TO ESTABLISHING A DYNAMIC TRAFFIC CONTROL PLAN (DTCP)
115
COORDINATE WITH THE ONE OR MORE OTHER VEHICLES IN ELECTING A TEMPORARY DTCP COORDINATOR
120
PARTICIPATE IN THE DTCP

FIG. 1

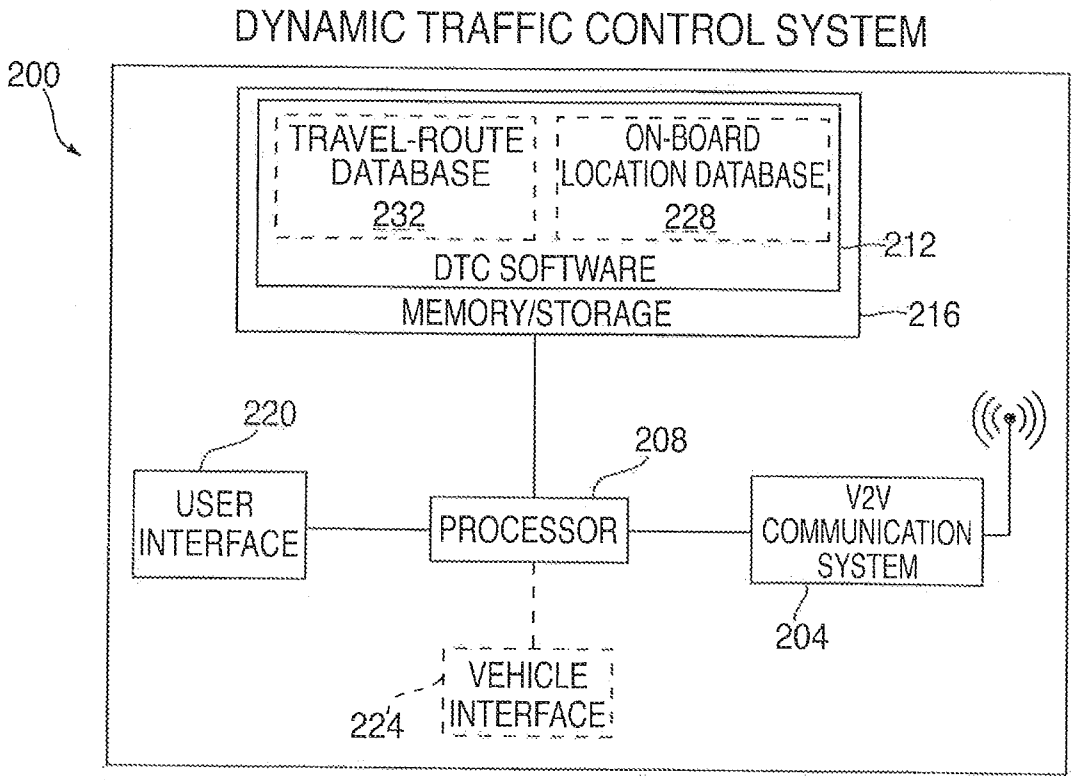

DYNAMIC TRAFFIC CONTROL SYSTEM
200
TRAVEL-ROUTE DATABASE
232
ON-BOARD LOCATION DATABASE
228
DTC SOFTWARE
212
MEMORY/STORAGE
216
220
USER INTERFACE
208
PROCESSOR
V2V COMMUNICATION SYSTEM
204
VEHICLE INTERFACE
224

FIG. 2

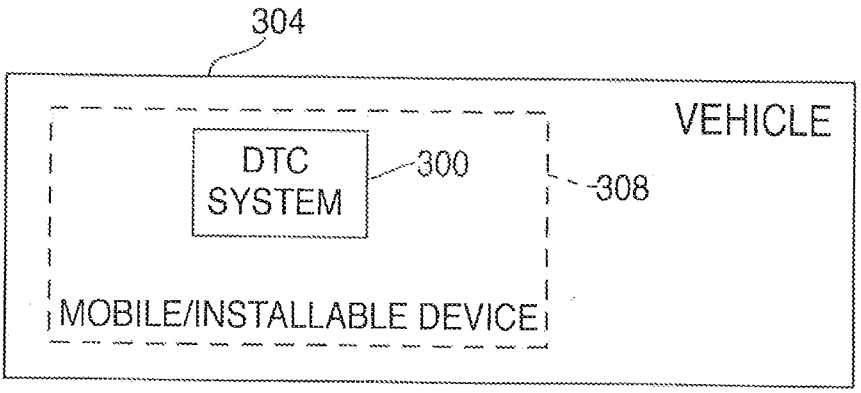

304
VEHICLE
DTC SYSTEM
300
308
MOBILE/INSTALLABLE DEVICE

FIG. 3

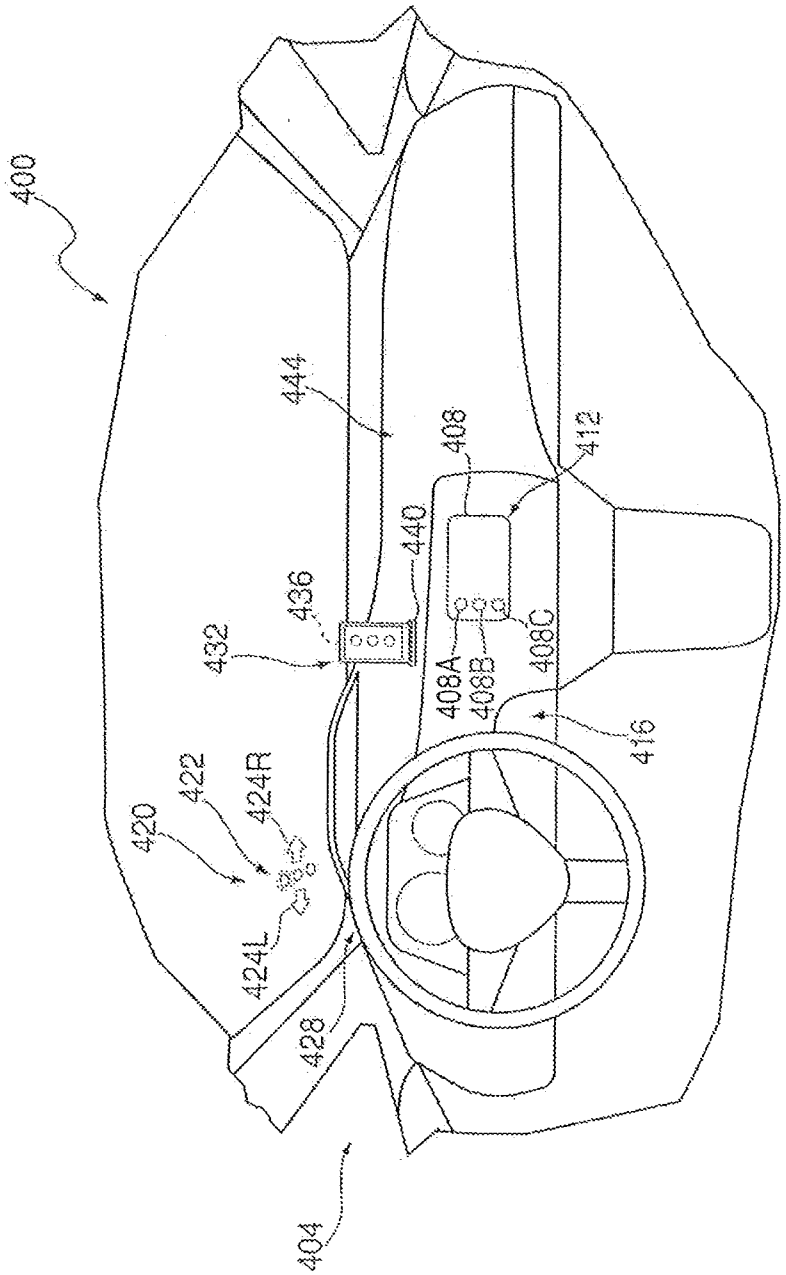

400
444
408
412
440
436
432
408A
408B
408C
416
420
422
424R
424L
428
404

FIG. 4

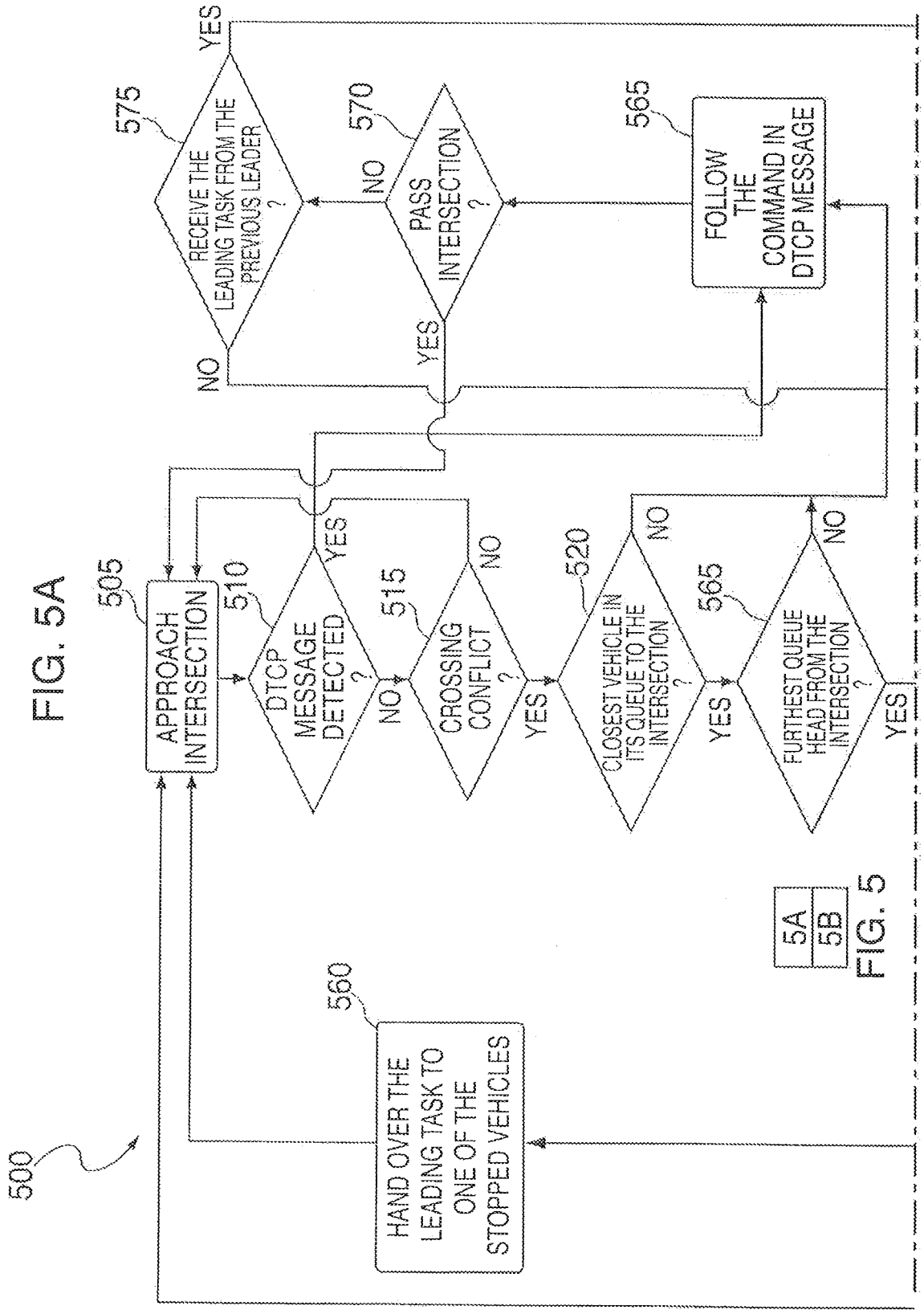

500
APPROACH INTERSECTION
505
DTCP MESSAGE DETECTED ?
510
YES
NO
CROSSING CONFLICT ?
515
NO
YES
CLOSEST VEHICLE IN ITS QUEUE TO THE INTERSECTION ?
520
NO
YES
FURTHEST QUEUE HEAD FROM THE INTERSECTION ?
565
NO
YES
HAND OVER THE LEADING TASK TO ONE OF THE STOPPED VEHICLES
560
RECEIVE THE LEADING TASK FROM THE PREVIOUS LEADER ?
575
YES
NO
PASS INTERSECTION ?
570
NO
YES
FOLLOW THE COMMAND IN DTCP MESSAGE
565
5A
5B

FIG. 5A

FIG. 5

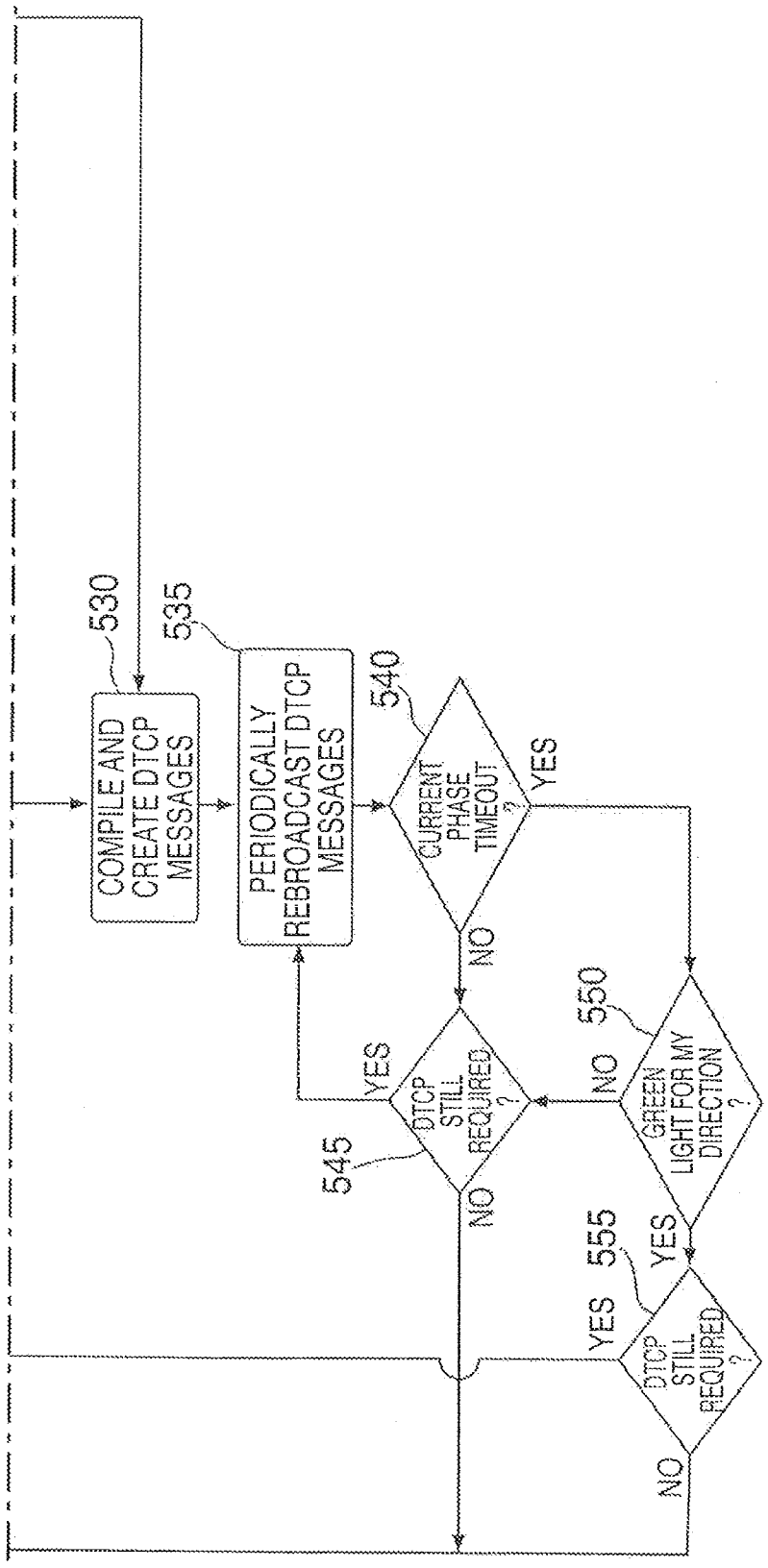

530
COMPILE AND CREATE DTCP MESSAGES
535
PERIODICALLY REBROADCAST DTCP MESSAGES
540
CURRENT PHASE TIMEOUT ?
YES
NO
545
DTCP STILL REQUIRED ?
YES
NO
550
GREEN LIGHT FOR MY DIRECTION ?
NO
YES
555
DTCP STILL REQUIRED ?
YES
NO

FIG. 5B

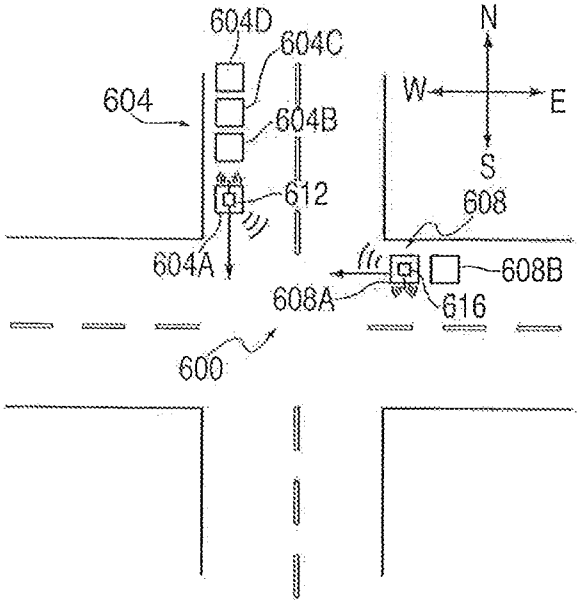


FIG. 6A

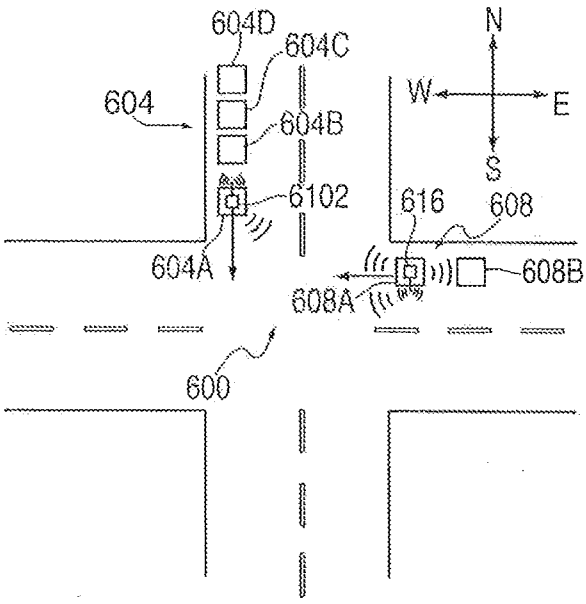


FIG. 6B

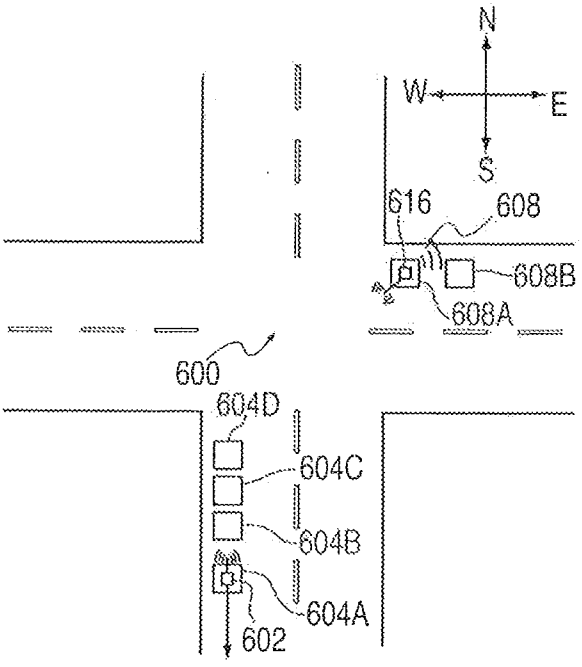


FIG. 6C

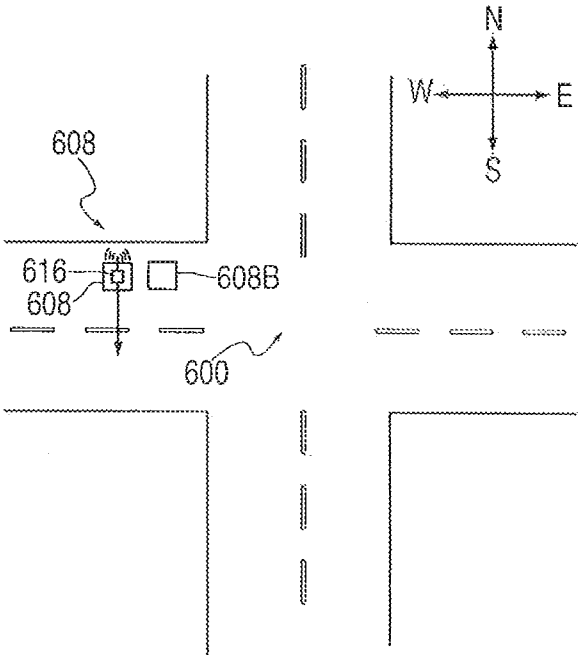


FIG. 6D

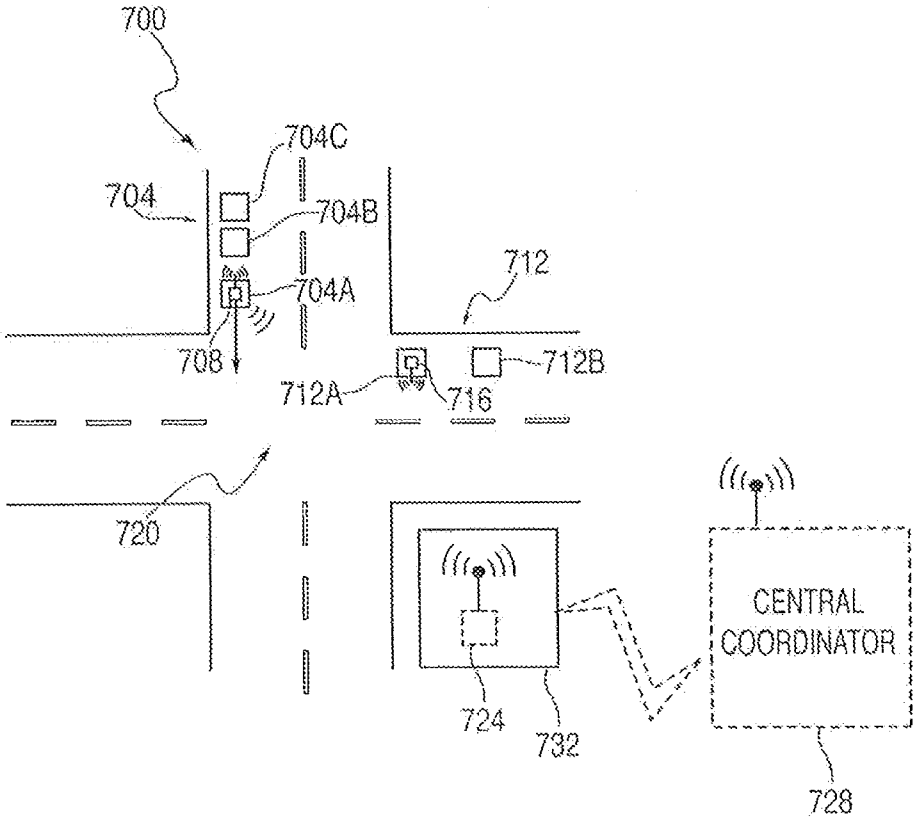

700
704C
704
704B
712
704A
708
712B
712A
716
720
CENTRAL
COORDINATOR
724
732
728

FIG. 7