

The diagram illustrates a robotic system 10. At the top, a base unit 17 is mounted on a set of wheels 20 and 21, which are positioned on a floor surface R. The base unit 17 is connected to a vertical support structure 18. This structure supports a horizontal arm 19. The arm 19 features two end effector assemblies, labeled 12a and 12b. Each assembly consists of a motor 11, a drive shaft 16, and a gripper mechanism comprising parts 13a and 13b. A dashed line 50 indicates a specific configuration or state of the grippers. Below the main body, a host controller HC is shown, connected to the system via a lightning bolt symbol representing electrical communication. A coordinate system is defined at the bottom with X, Y, and Z axes.

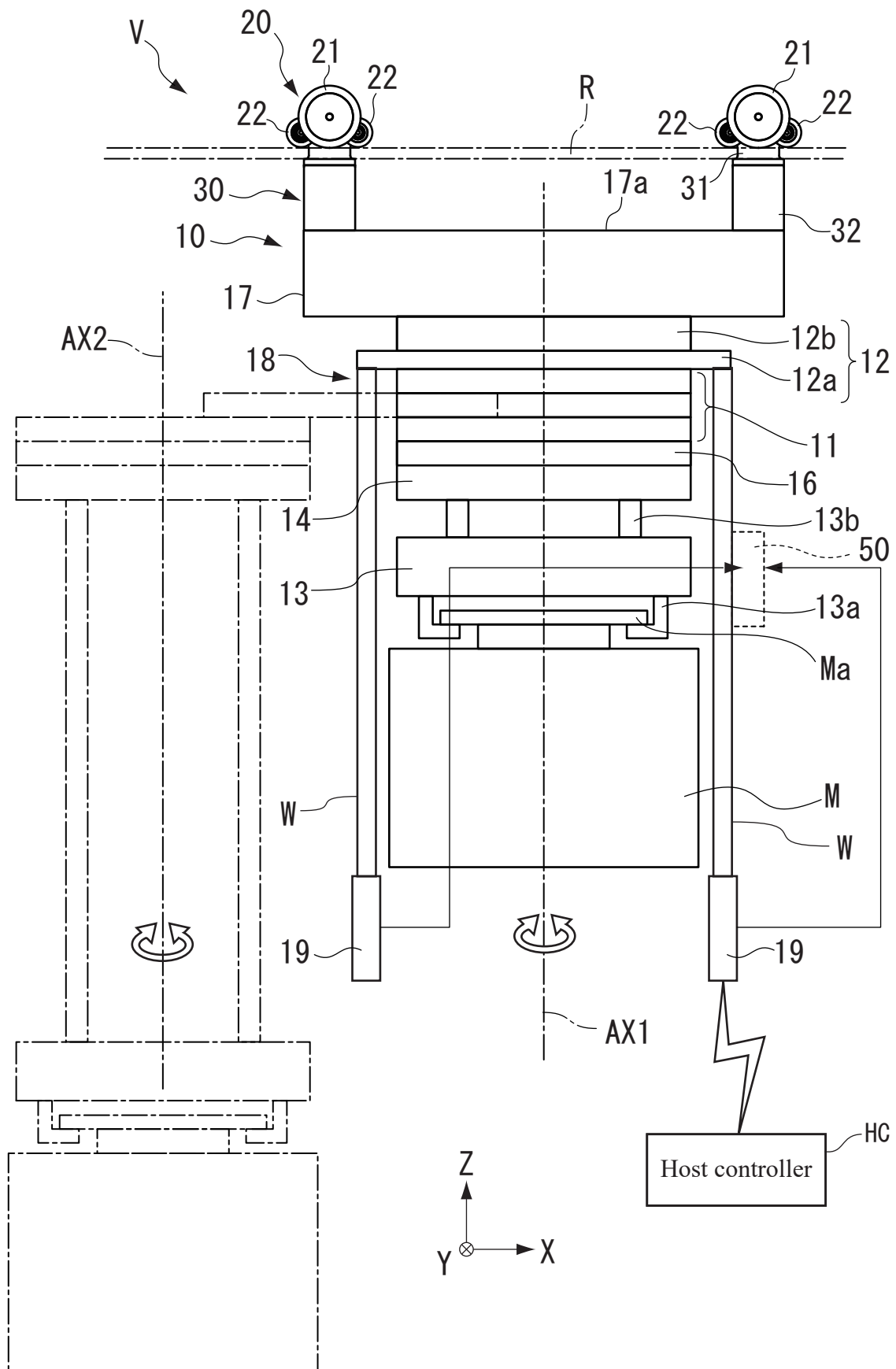


FIG. 2

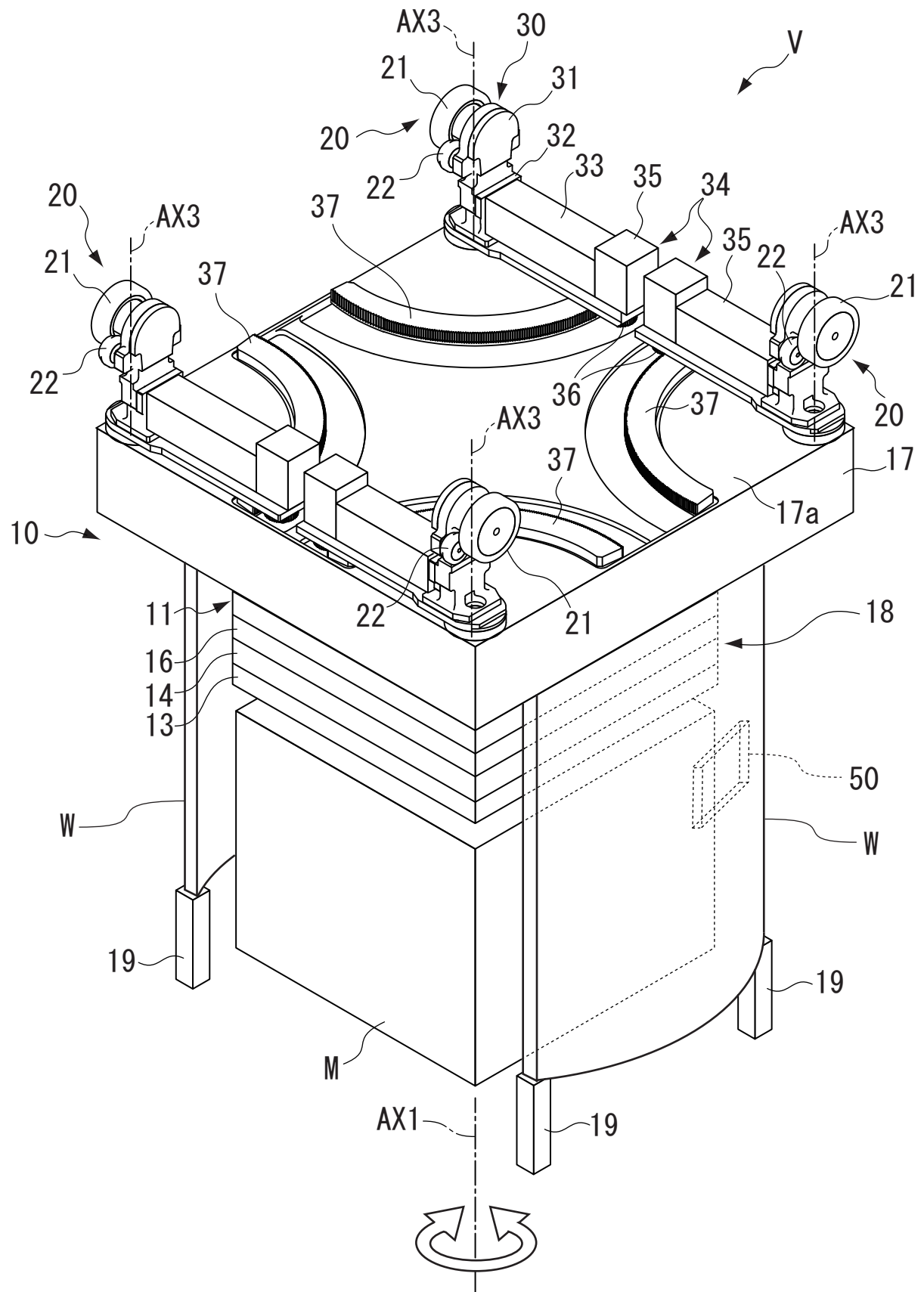


FIG.3

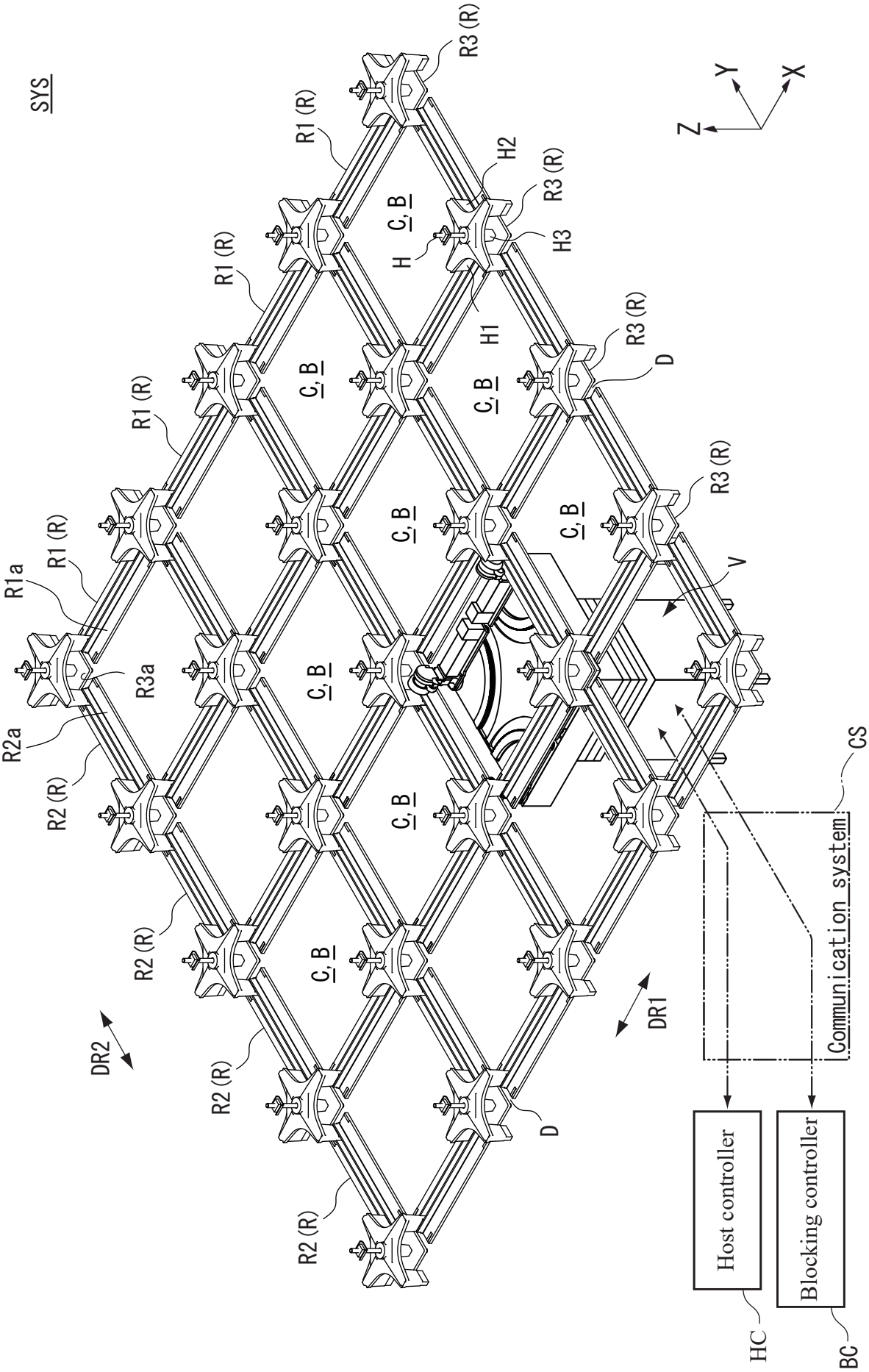
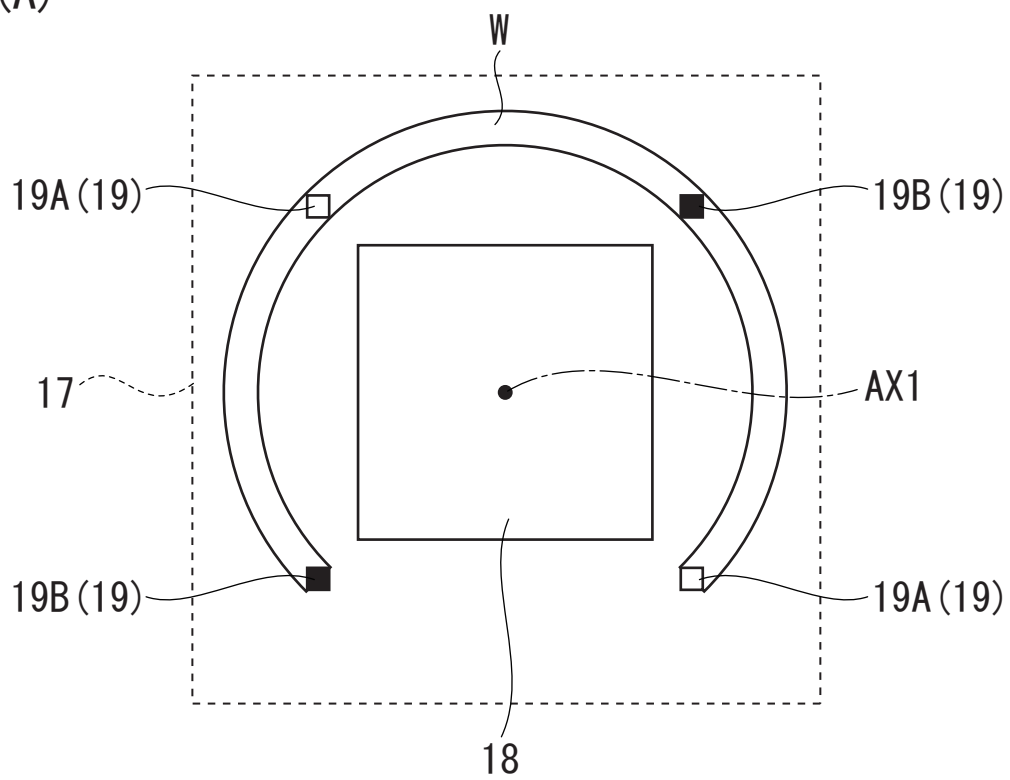


FIG.4

(A)



(B)

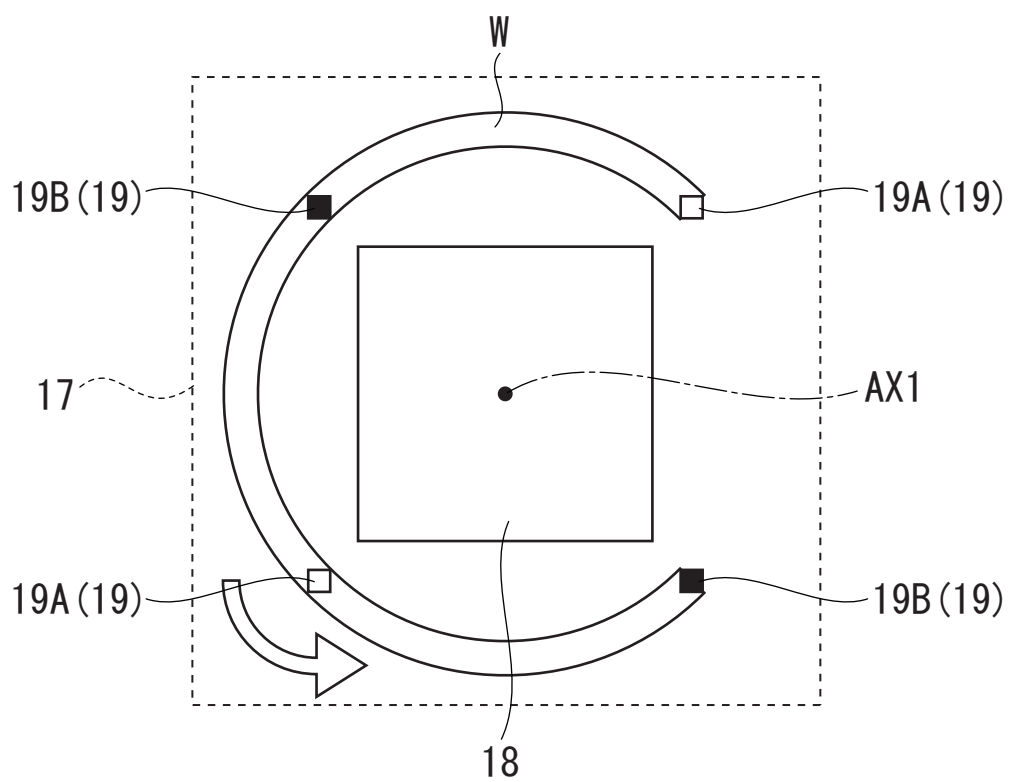


FIG.5

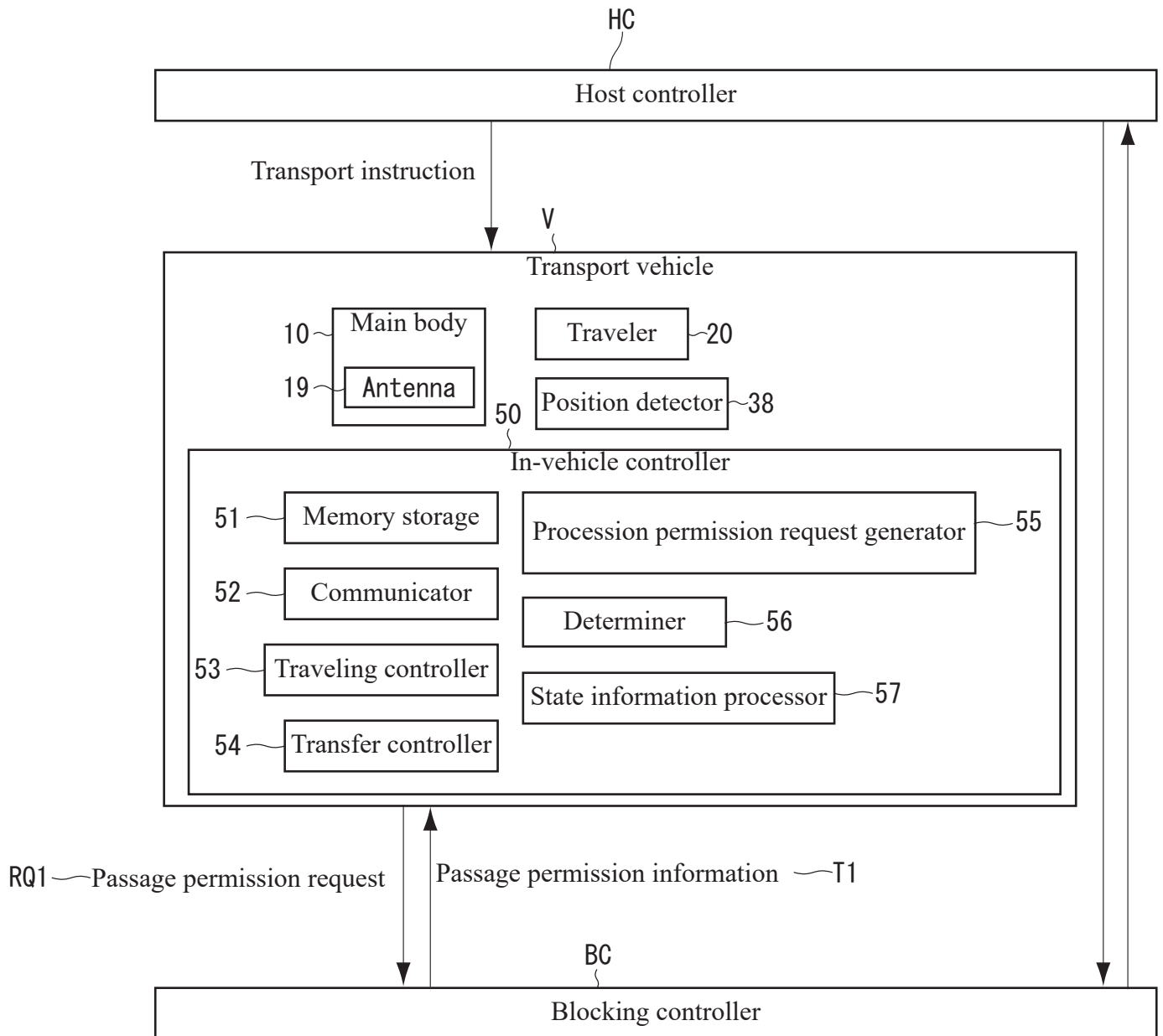


FIG.6

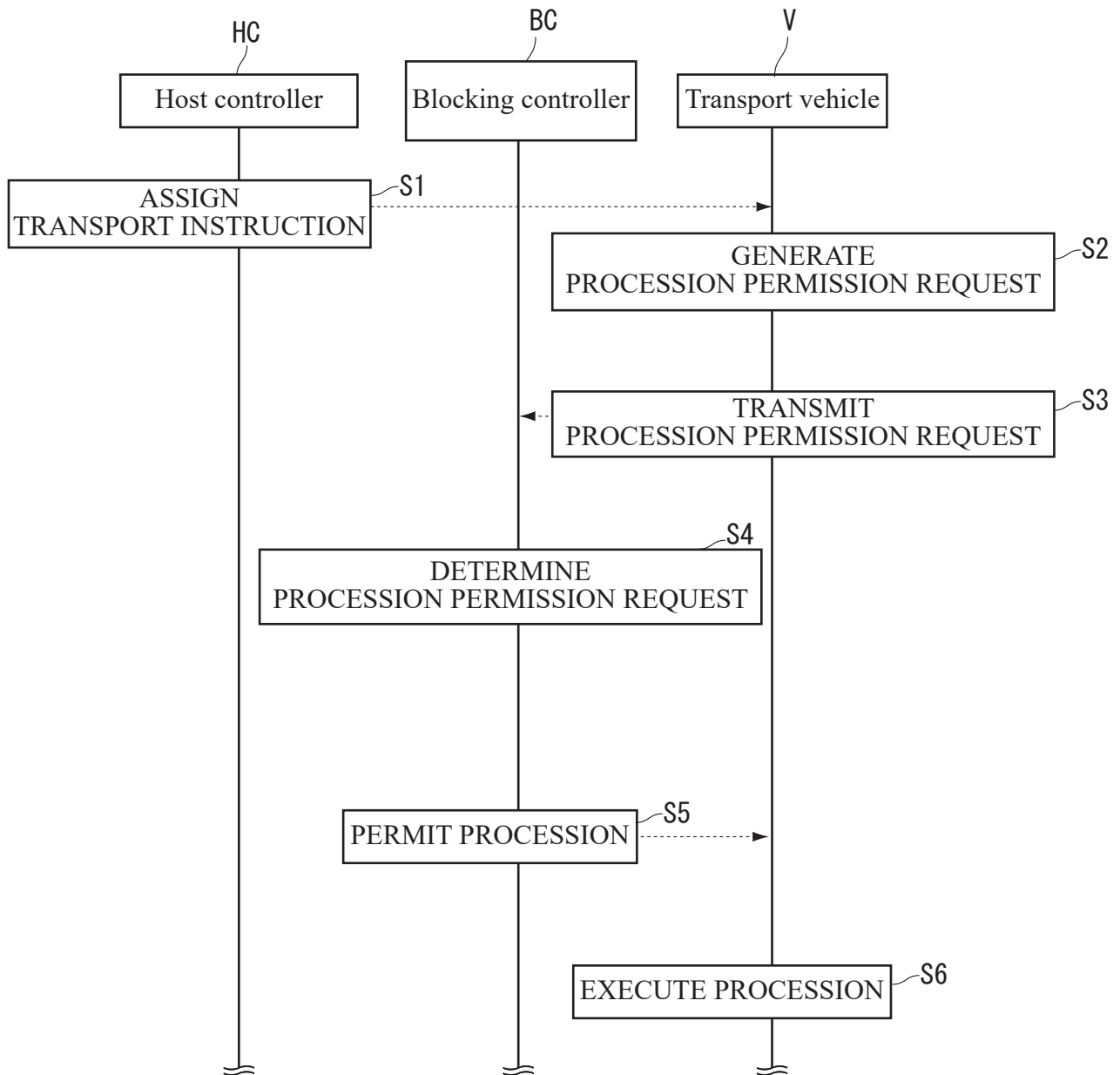


FIG.7

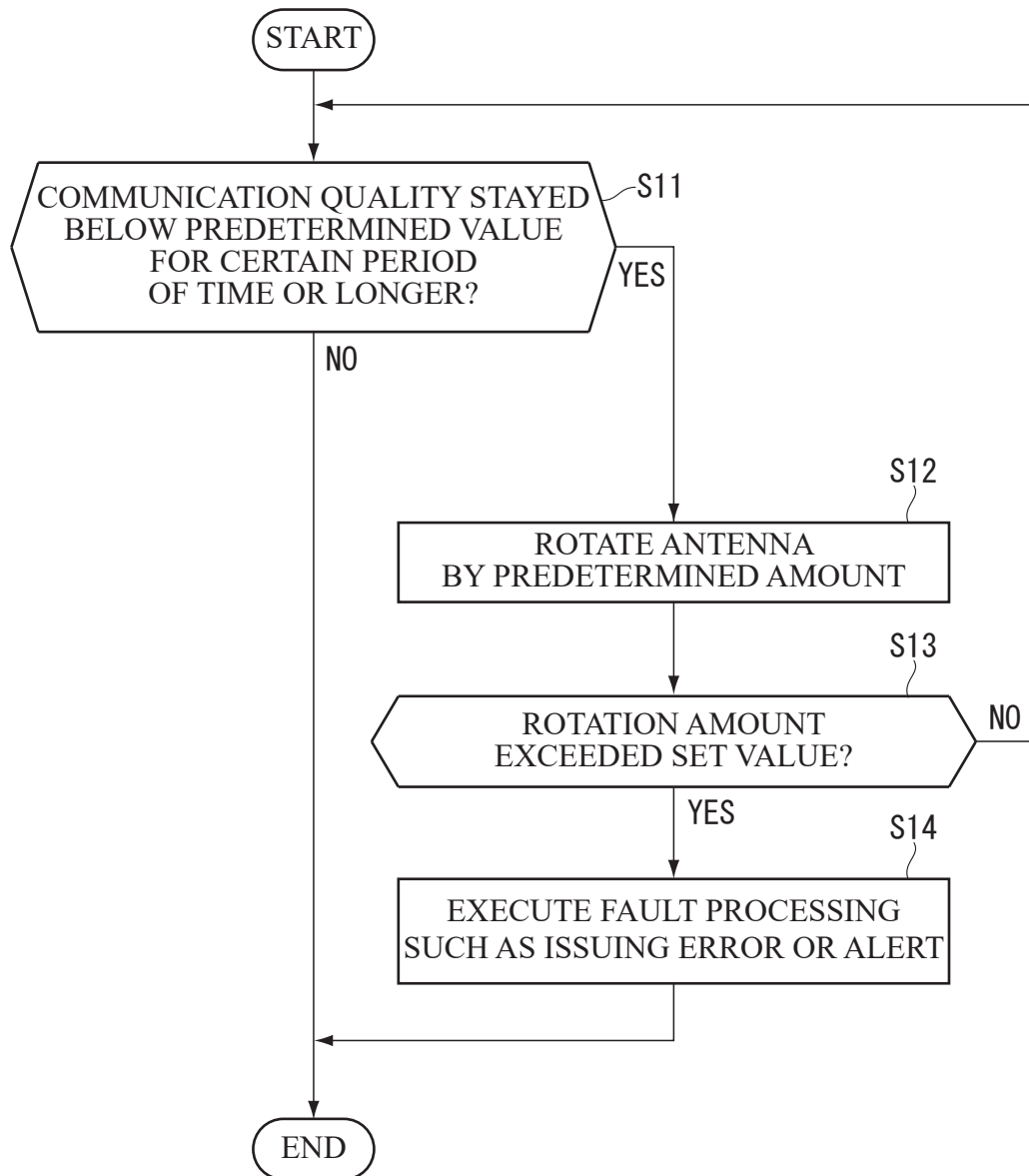


FIG.8

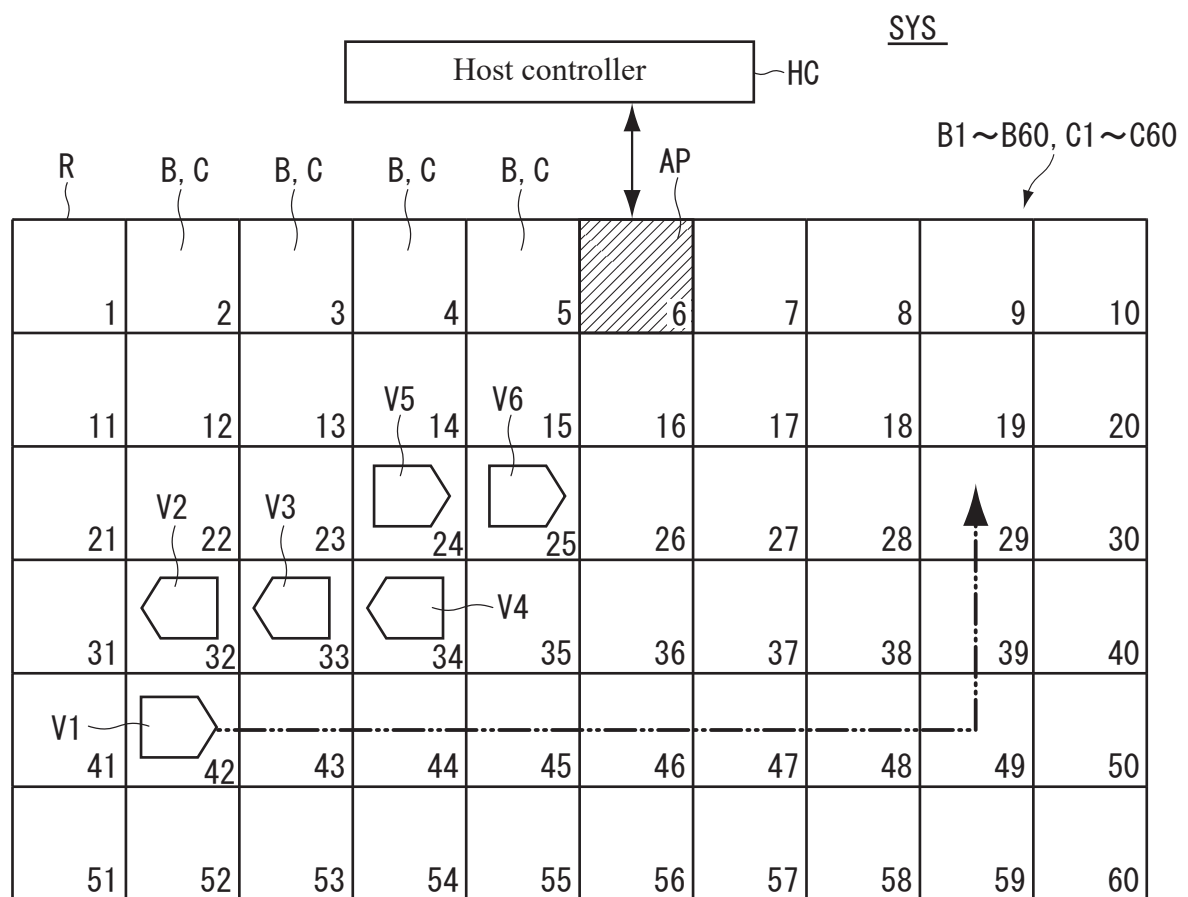


FIG.9

