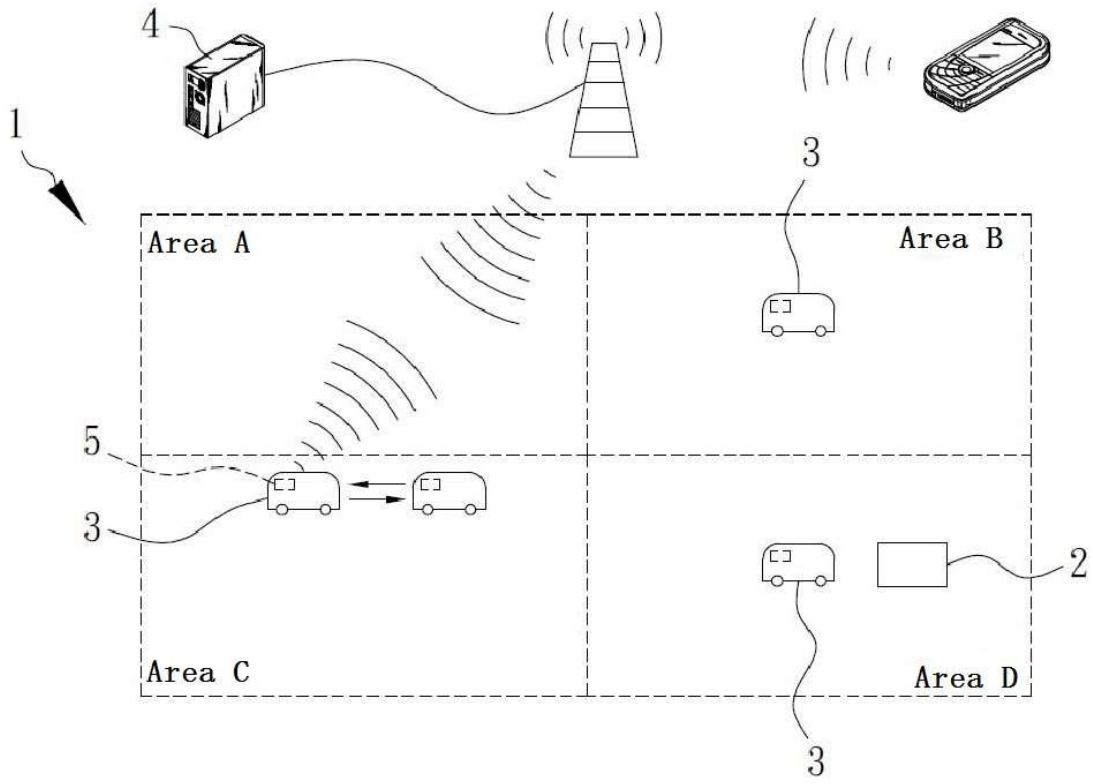


Fig. 1

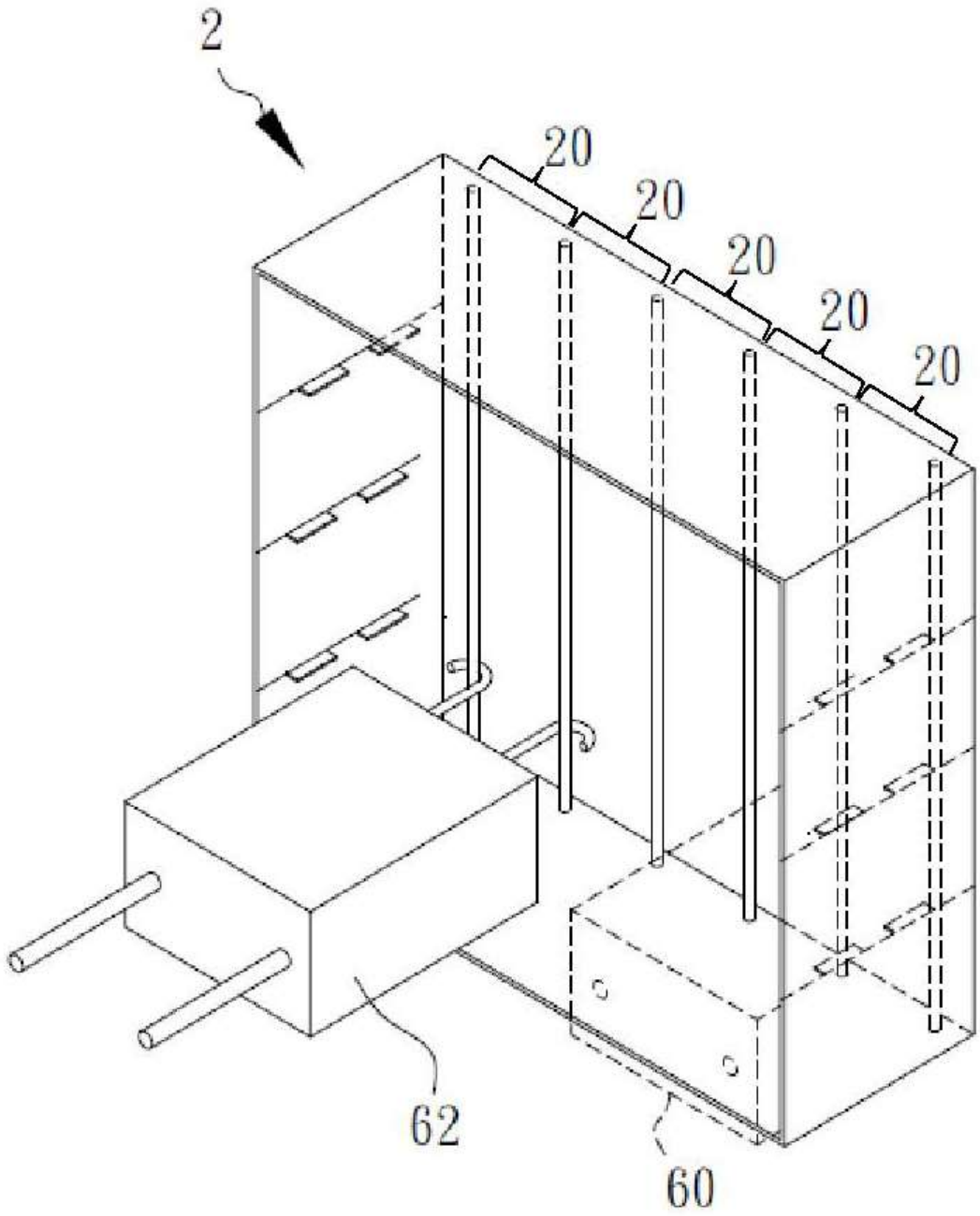


Fig. 2

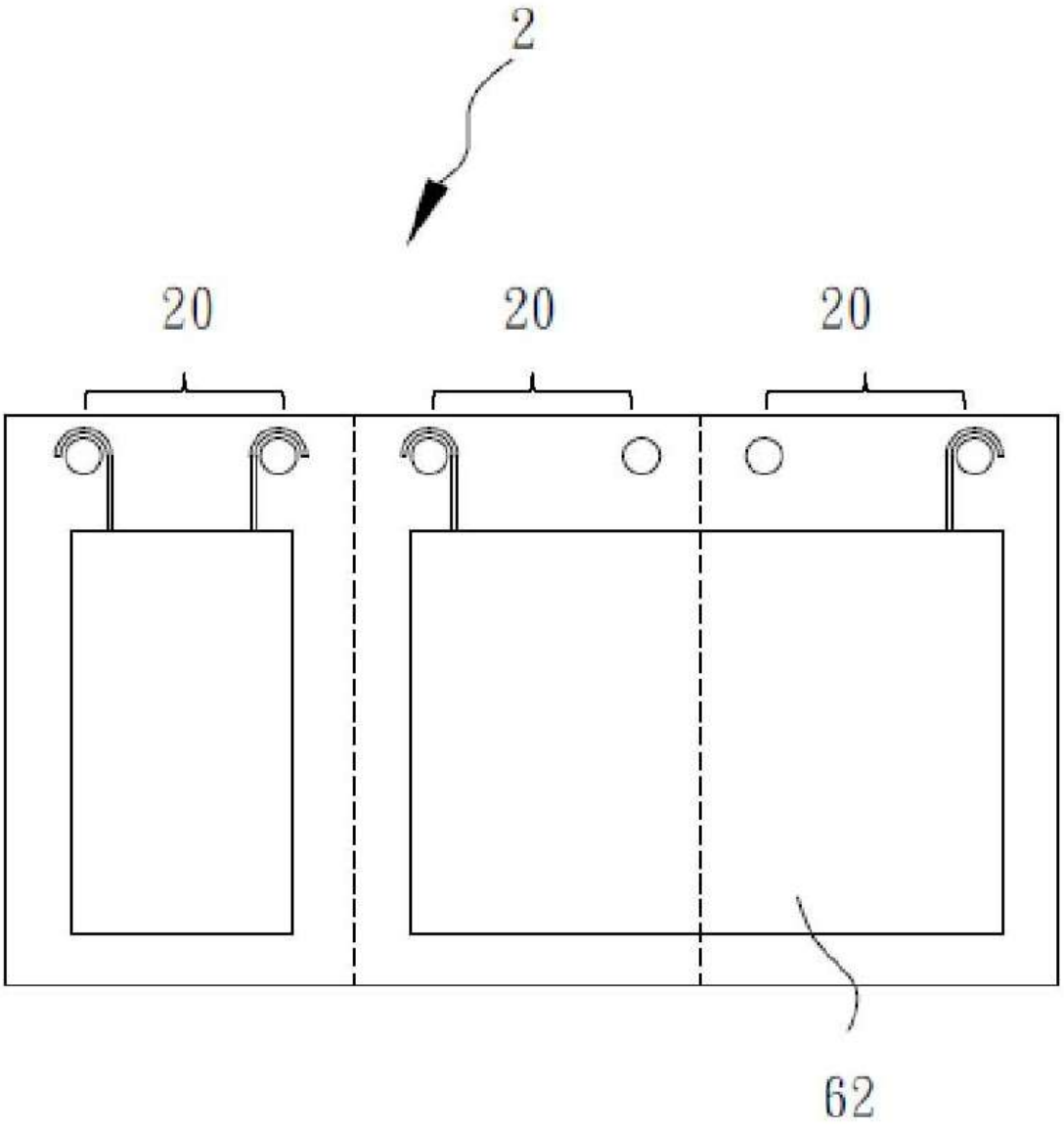


Fig. 3

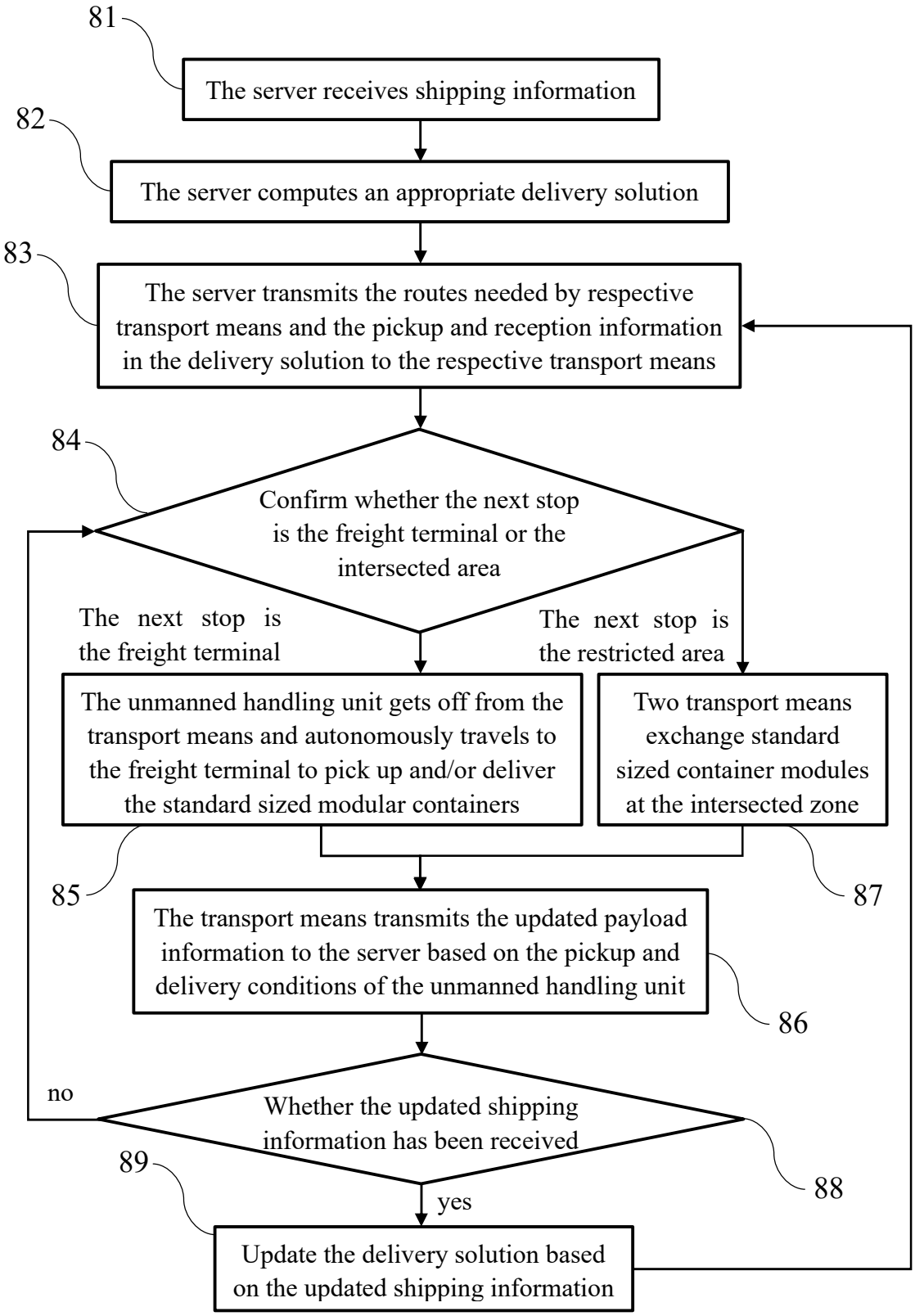

81
The server receives shipping information
82
The server computes an appropriate delivery solution
83
The server transmits the routes needed by respective transport means and the pickup and reception information in the delivery solution to the respective transport means
84
Confirm whether the next stop is the freight terminal or the intersected area
The next stop is the freight terminal
The next stop is the restricted area
The unmanned handling unit gets off from the transport means and autonomously travels to the freight terminal to pick up and/or deliver the standard sized modular containers
Two transport means exchange standard sized container modules at the intersected zone
85
87
The transport means transmits the updated payload information to the server based on the pickup and delivery conditions of the unmanned handling unit
86
no
Whether the updated shipping information has been received
88
89
yes
Update the delivery solution based on the updated shipping information

Fig.4

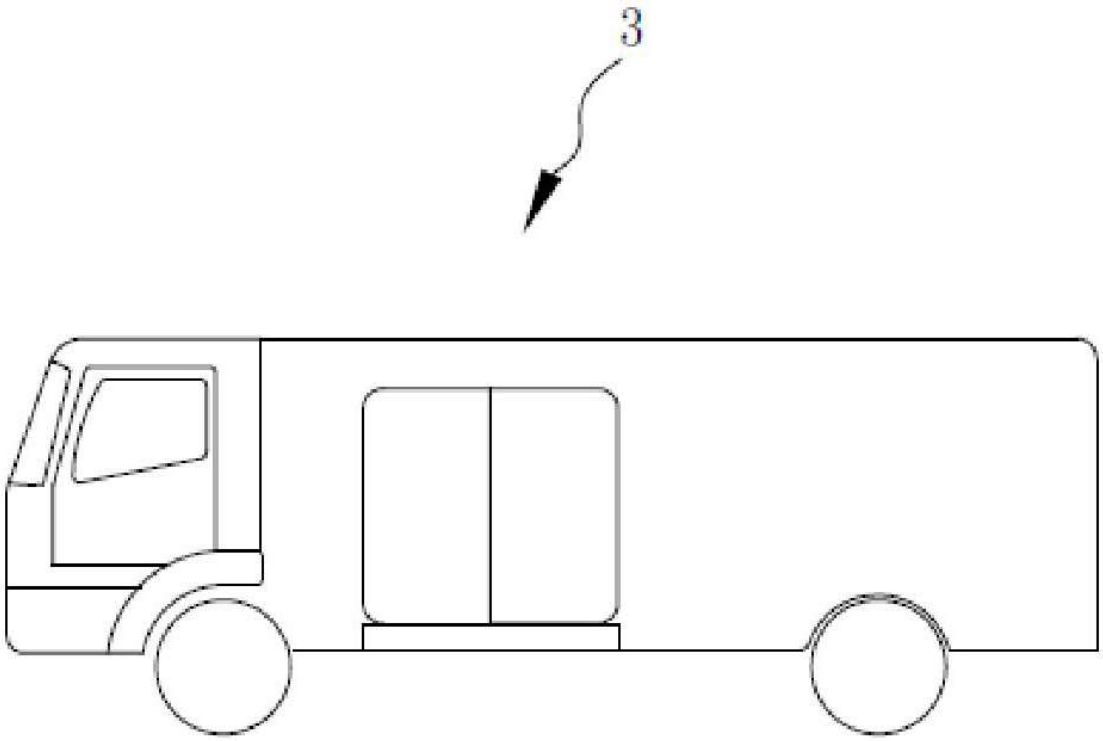


Fig. 5

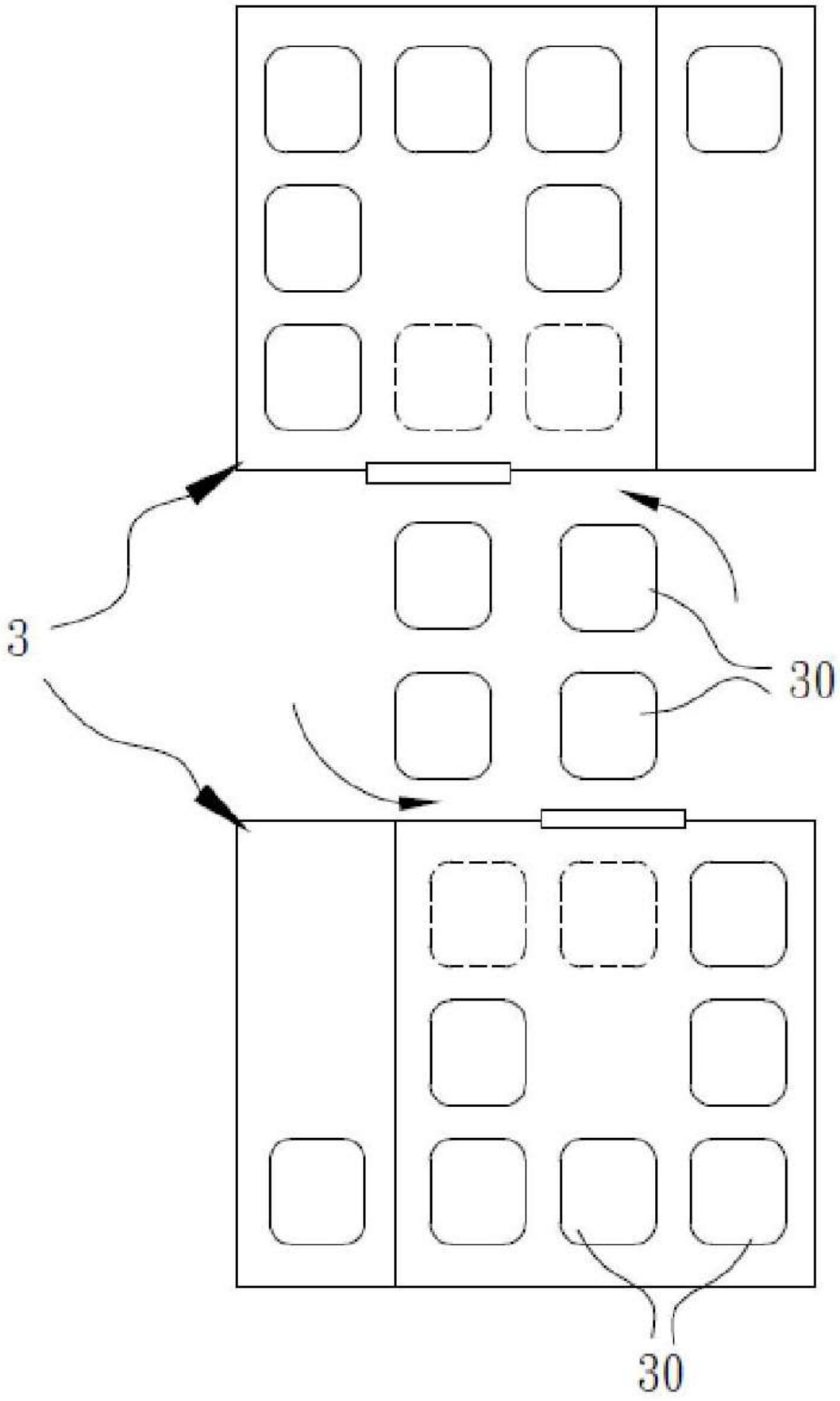


Fig. 6

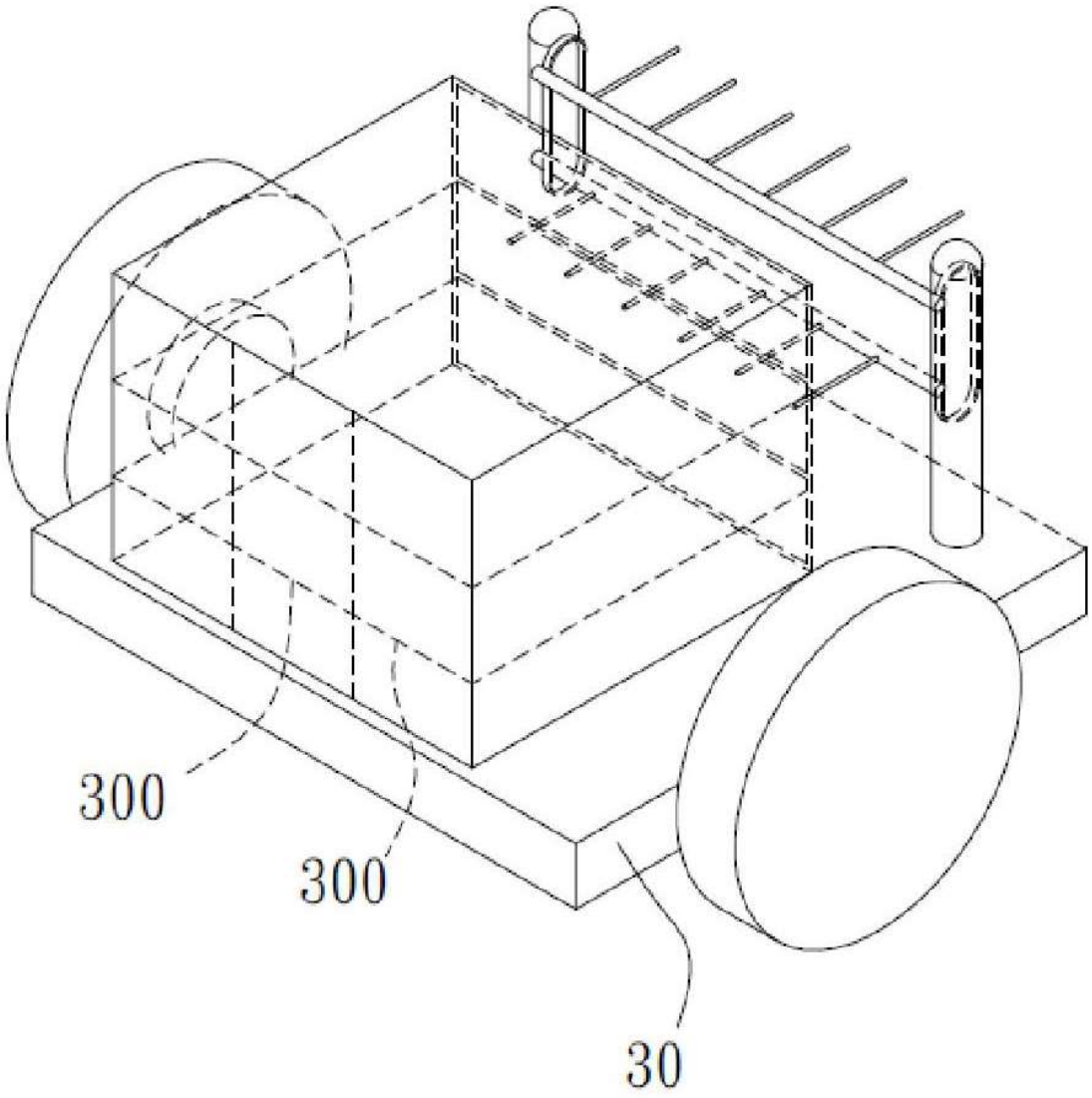


Fig. 7

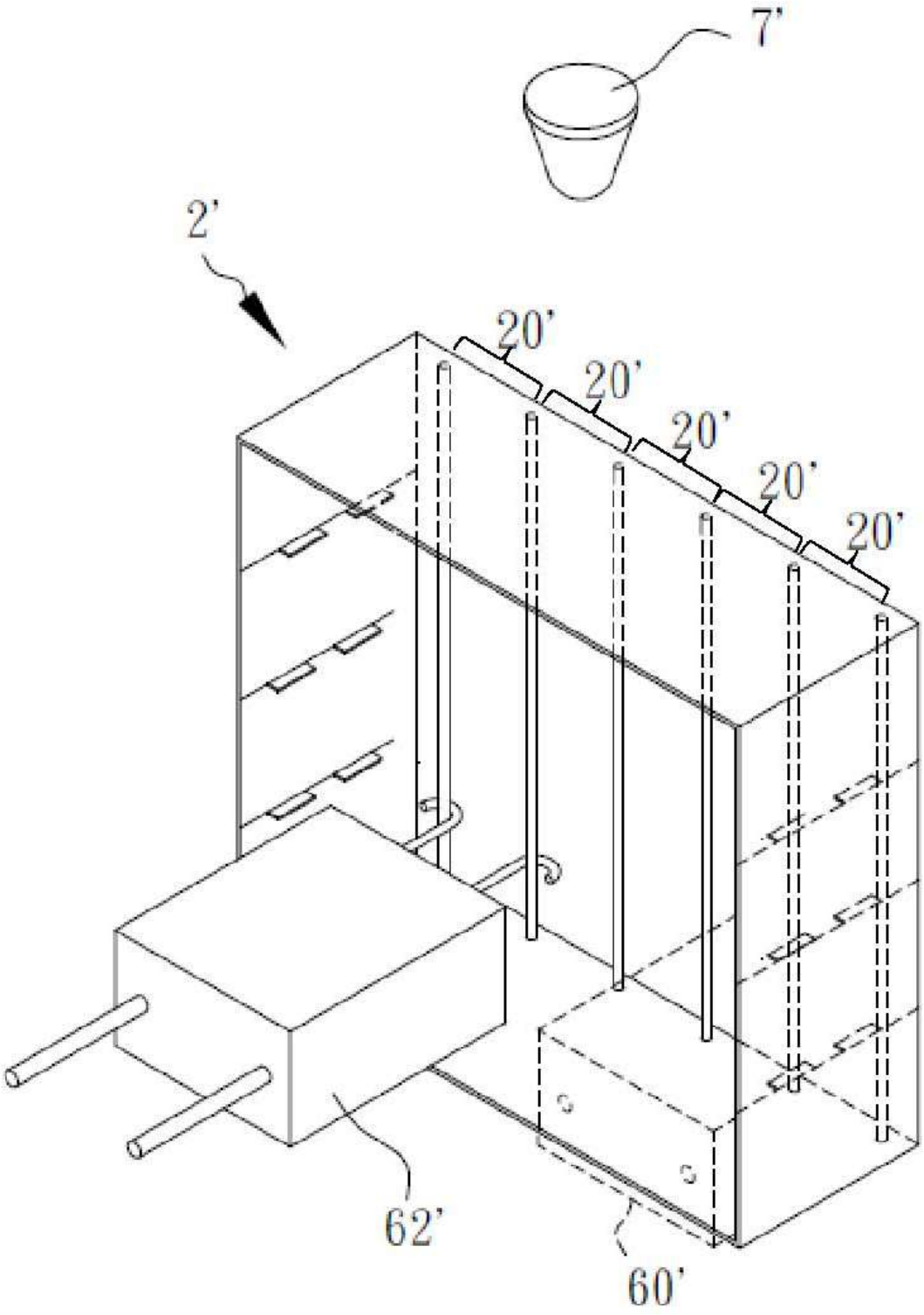


Fig. 8

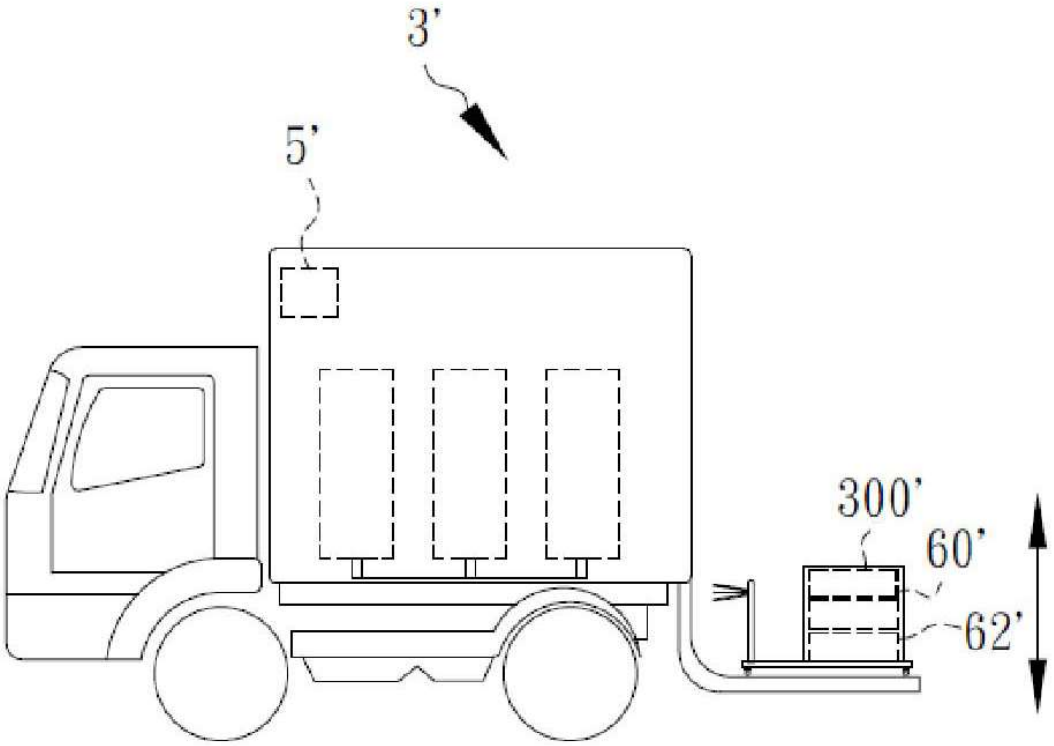


Fig. 9

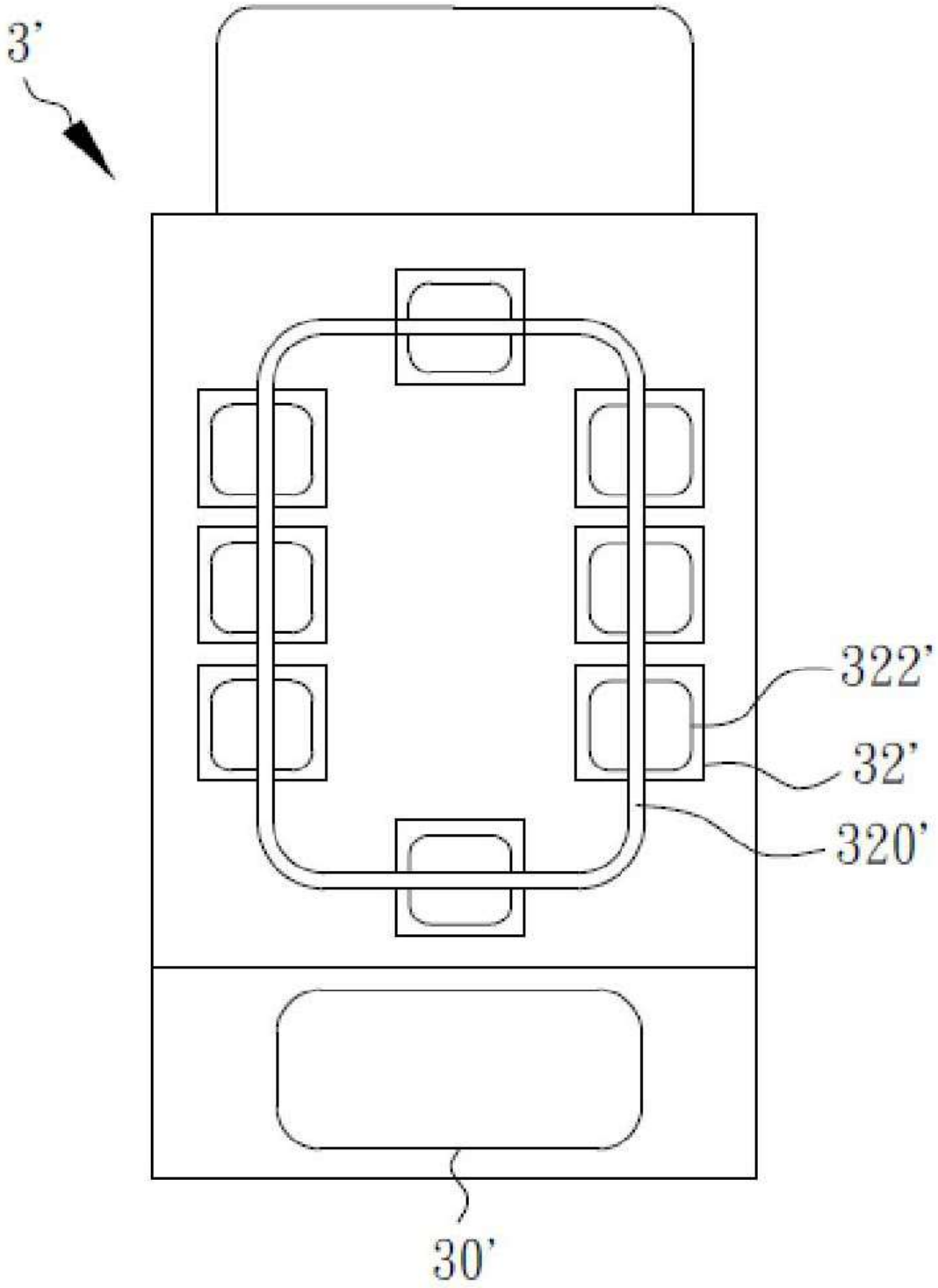


Fig. 10