CLAIMS

1. A logistics distribution method, comprising:

sending a first move instruction to a mobile self-pickup device in a preset area, to cause the mobile self-pickup device to move to a location area of a vehicle corresponding to a stored package, wherein preset area information carried in a logistics distribution request corresponding to the stored package matches with information about the preset area;

based on a determination that the mobile self-pickup device arrives at the location area of the vehicle corresponding to the stored package, causing a server to send a distribution notice to a client; and

sending an open instruction to the mobile self-pickup device, for the stored package to be picked up from the mobile self-pickup device.

2. The method according to claim 1, wherein a distance value between the location area of the vehicle and a parking location of the vehicle is less than a preset threshold and wherein the parking location of the vehicle corresponding to the stored package is determined by using the following step:

obtaining the parking location of the vehicle corresponding to the stored package from an Internet of vehicles system according to vehicle information carried in the logistics distribution request corresponding to the stored package.

3. The method according to claim 2, wherein the step of obtaining the parking location of the vehicle corresponding to the stored package from an Internet of vehicles system comprises:

searching, according to the vehicle information carried in the logistics distribution request corresponding to the stored package, a mapping relationship that is between real-time vehicle information and parking locations of vehicles in the preset area and that is recorded in the Internet of vehicles system, to obtain the parking location of the vehicle corresponding to the stored package.

4. The method according to claim 1, wherein a distance value between the location area of the vehicle and a parking location of the vehicle is less than a preset threshold, and

wherein the parking location of the vehicle corresponding to the stored package is determined by using the following steps:

sending information about the stored package to a server, to cause the server to obtain the parking location of the vehicle corresponding to the stored package by using an Internet of vehicles system and according to the information about the stored package; and

receiving the parking location that is of the vehicle corresponding to the stored package and that is sent by the server.

5. The method according to any one of claims 2 to 4, wherein before the step of sending the open instruction to the mobile self-pickup device, the method further comprises:

receiving a pick-up request from the client, wherein the pick-up request carries at least one of verification information, user information, and location information; and

verifying the pick-up request, wherein:

the step of sending the open instruction to the mobile self-pickup device comprises: sending the open instruction to the mobile self-pickup device after the pick-up request is verified successfully.

6. The method according to claim 5, wherein the method further comprises:

sending a location report to a server when the mobile self-pickup device moves to the parking location of the vehicle corresponding to the stored package, to cause the server to send a pick-up notification to the client according to the location report.

7. The method according to any one of claims 1 to 4, wherein the method further comprises:

sending a second move instruction to the mobile self-pickup device after the stored package in the mobile self-pickup device is picked up, to cause the mobile self-pickup device to move to a preset location in the preset area.

8. A logistics distribution method, comprising:

obtaining a logistics distribution request corresponding to a package, wherein the logistics distribution request carries preset area information and vehicle information of a vehicle, wherein the vehicle corresponds to the package; and

establishing a first mapping relationship between package information of the package and the preset area information, to deliver the package to a preset area matched with the preset area information corresponding to the package, wherein a mobile self-pickup device is disposed in the preset area;

based on a determination that the mobile self-pickup device arrives at a location area of the vehicle corresponding to the package, sending a distribution notice to a client.

9. The method according to claim 8, wherein the method further comprises:

receiving information that is about a stored package and that is sent by a control terminal;

establishing, according to the vehicle information carried in the logistics distribution request corresponding to the package, a second mapping relationship between the information about the stored package and the vehicle information;

receiving real-time vehicle information and a corresponding parking location from an Internet of vehicles system;

matching the real-time vehicle information with the vehicle information in the second mapping relationship;

when the matching is successful, using the parking location corresponding to the real-time vehicle information as a parking location of a vehicle corresponding to the information about the stored package; and

sending the parking location of the vehicle corresponding to the information about the stored package to the control terminal.

10. The method according to claim 8, wherein the logistics distribution request further carries vehicle information, and the method further comprises:

receiving information that is about the stored package and that is sent by the control terminal;

searching, according to the vehicle information corresponding to the information about the stored package, a mapping relationship that is between real-time vehicle information and parking locations of vehicles in a preset area and that is recorded in an Internet of vehicles system, to obtain a parking location of the vehicle corresponding to the stored package; and

sending the parking location of the vehicle corresponding to the information about the

stored package to the control terminal.

11. The method according to any one of claims 8 to 10, wherein the method further comprises:

receiving a location report sent by the control terminal; and

sending a pick-up notification to a corresponding client according to the location report.

12. A control terminal, comprising:

a first instruction sending module, configured to send a first move instruction to a mobile self-pickup device in a preset area, to cause the mobile self-pickup device to move to a location area of a vehicle corresponding to a stored package, wherein preset area information carried in a logistics distribution request corresponding to the stored package matches with information about the preset area; and

a second instruction sending module, configured to cause a server to send a distribution notice to a client based on a determination that the mobile self-pickup device arrives at the location area of the vehicle corresponding to the stored package and to send an open instruction to the mobile self-pickup device, for the stored package to be picked up from the mobile self-pickup device.

13. The control terminal according to claim 12, wherein a distance value between the location area of the vehicle and a parking location of the vehicle is less than a preset threshold, and wherein the control terminal further comprises: a determining module, configured to determine the parking location of the vehicle corresponding to the stored package, wherein the determining module comprises:

an obtaining submodule, configured to obtain the parking location of the vehicle corresponding to the stored package from an Internet of vehicles system according to vehicle information carried in the logistics distribution request corresponding to the stored package.

14. The control terminal according to claim 13, wherein the obtaining submodule comprises:

a search unit, configured to search, according to the vehicle information carried in the

logistics distribution request corresponding to the stored package, a mapping relationship that is between real-time vehicle information and parking locations of vehicles in the preset area and that is recorded in the Internet of vehicles system, to obtain the parking location of the vehicle corresponding to the stored package.

15. The control terminal according to claim 12, wherein a distance value between the location area of the vehicle and a parking location of the vehicle is less than a preset threshold, and wherein the control terminal further comprises: a determining module, configured to determine the parking location of the vehicle corresponding to the stored package, wherein

the determining module comprises:

a first sending submodule, configured to send information about the stored package to a server, to cause the server to obtain the parking location of the vehicle corresponding to the stored package by using an Internet of vehicles system and according to the information about the stored package; and

a first receiving submodule, configured to receive the parking location that is of the vehicle corresponding to the stored package and that is sent by the server.

16. The control terminal according to any one of claims 13 to 15, wherein the control terminal further comprises:

a request receiving module, configured to receive a pick-up request from the client before the second instruction sending module sends the open instruction to the mobile self-pickup device, wherein the pick-up request carries at least one of verification information, user information, and location information; and

a verification module, configured to verify the pick-up request, wherein the second instruction sending module comprises:

an instruction sending submodule, configured to send the open instruction to the mobile self-pickup device after the pick-up request is verified successfully.

17. The control terminal according to claim 16, wherein the control terminal comprises:

a report sending module, configured to send a location report to a server when the mobile self-pickup device moves to the parking location of the vehicle corresponding to

the stored package, to cause the server to send a pick-up notification to the client according to the location report.

18. The control terminal according to any one of claims 12 to 15, wherein the control terminal further comprises:

a third instruction sending module, configured to send a second move instruction to the mobile self-pickup device after the stored package in the mobile self-pickup device is picked up, to cause the mobile self-pickup device to move to a preset location in the preset area.

19. A server, comprising:

an obtaining module, configured to obtain a logistics distribution request corresponding to a package, wherein the logistics distribution request carries preset area information and vehicle information of a vehicle, wherein the vehicle corresponds to the package; and

a first establishing module, configured to establish a first mapping relationship between package information of the package and the preset area information, to deliver the package to a preset area matched with the preset area information corresponding to the package, wherein at least one mobile self-pickup device is disposed in the preset area, and based on a determination that the mobile self-pickup device arrives at a location area of the vehicle corresponding to the package, to send a distribution notice to a client.

20. The server according to claim 19, wherein the server further comprises:

a first receiving module, configured to receive information that is about a stored package and that is sent by a control terminal;

a second establishing module, configured to establish, according to the vehicle information carried in the logistics distribution request corresponding to the package, a second mapping relationship between the information about the stored package and the vehicle information;

a second receiving module, configured to receive real-time vehicle information and a corresponding parking location from an Internet of vehicles system;

a matching module, configured to match the real-time vehicle information with the vehicle information in the second mapping relationship;

a determining module, configured to: when the matching is successful, use the parking location corresponding to the real-time vehicle information as a parking location of a vehicle corresponding to the information about the stored package; and

a first sending module, configured to send the parking location of the vehicle corresponding to the information about the stored package to the control terminal.

21. The server according to claim 19, wherein the logistics distribution request further carries vehicle information, and the server further comprises:

a third receiving module, configured to receive information that is about the stored package and that is sent by a control terminal;

a search module, configured to search, according to the vehicle information corresponding to the information about the stored package, a mapping relationship that is between real-time vehicle information and parking locations of vehicles in a preset area and that is recorded in an Internet of vehicles system, to obtain a parking location of the vehicle corresponding to the stored package; and

send the parking location of the vehicle corresponding to the information about the stored package to the control terminal.

22. The server according to any one of claims 19 to 21, wherein the server further comprises:

a fourth receiving module, configured to receive a location report sent by the control terminal; and

a second sending module, configured to send a pick-up notification to a corresponding client according to the location report.

23. A logistics distribution system, comprising: at least one control terminal and at least one server, wherein the control terminal comprises:

a first instruction sending module, configured to send a first move instruction to a mobile self-pickup device in a preset area, to cause the mobile self-pickup device to move to a location area of a vehicle corresponding to a stored package, wherein at least one mobile self-pickup device is disposed in the preset area, preset area information carried in a logistics distribution request corresponding to the stored package matches with information about the preset area; and

a second instruction sending module, configured to cause the server to send a distribution notice to a client based on a determination that the mobile self-pickup device arrives at the location area of the vehicle corresponding to the stored package; and to send an open instruction to the mobile self-pickup device, for the stored package to be picked up from the mobile self-pickup device; and

the server comprises:

an obtaining module, configured to obtain a logistics distribution request corresponding to a package, wherein the logistics distribution request carries preset area information and vehicle information of the vehicle corresponding to the package; and

a first establishing module, configured to establish a first mapping relationship between package information of the package and the preset area information, to deliver the package to a preset area matched with the preset area information corresponding to the package, wherein at least one mobile self-pickup device is disposed in the preset area.

24. A smart terminal, comprising a memory and one or more programs, wherein the one or more programs are stored in the memory, and are configured to be executed by one or more processors, and the one or more programs comprise instructions for performing the following operations:

sending a first move instruction to a mobile self-pickup device in a preset area, to cause the mobile self-pickup device to move to a location area of a vehicle corresponding to a stored package, wherein preset area information carried in a logistics distribution request corresponding to the stored package matches with information about the preset area;

based on a determination that the mobile self-pickup device arrives at the location area of the vehicle corresponding to the stored package, causing a server to send a distribution notice to a client; and

sending an open instruction to the mobile self-pickup device, for the stored package to be picked up from the mobile self-pickup device.