

CLAIMS

WHAT IS CLAIMED IS:

1. A method of operating a motorized scooter, the method comprising:
receiving, at the motorized scooter, an unlock request from a remote server;
unlocking the motorized scooter in response to the unlock request; and
continuously uploading status of the motorized scooter to the remote server based on a schedule when the motorized scooter is unlocked.
2. The method of claim 1, further comprising:
receiving, at the motorized scooter, a lock request from the remote server; and
locking the motorized scooter in response to the lock request.
3. The method of claim 1 or 2, further comprising:
receiving, at the motorized scooter, a speed control command from the remote server; and
setting a maximum speed of the motorized scooter based on the speed control command.
4. The method of any one of claims 1-3, further comprising:
establishing a wireless connection with the remote server based on a wireless communication identifier associated with the motorized scooter and a vehicle identifier of the motorized scooter.
5. A method of managing motorized scooters, the method comprising:
receiving, at a server from a mobile device, a vehicle identifier of a motorized scooter;
retrieving a vehicle status of the motorized scooter based on the vehicle identifier;
generating an unlock request when the vehicle status is a normal usable status; and
transmitting the unlock request to the motorized scooter.

6. The method of claim 5, further comprising:
continuously receiving, from the motorized scooter, the vehicle status of the motorized scooter based on a schedule.
7. The method of claim 5 or 6, further comprising:
receiving, at the server, a message from the mobile device, the message requesting locking the motorized scooter;
generating a lock request in response to the message when the motorized scooter is in an unlocking status; and
transmitting the lock request to the motorized scooter.
8. The method of any one of claims 5-7, further comprising:
generating a speed control command limiting a maximum speed of the motorized scooter based on the vehicle status of the motorized scooter; and
transmitting the speed control command to the motorized scooter.
9. The method of any one of claims 5-8, further comprising:
determining whether there is an active order associated with the motorized scooter when the motorized scooter is unlocked; and
transmitting a lock request to the motorized scooter when there is no active order associated with the motorized scooter and the motorized scooter is unlocked.
10. The method of any one of claim 5-9, further comprising:
determining whether an order associated with the motorized scooter is active when the motorized scooter is locked; and
terminating the order when the order is active and the motorized scooter is locked.
11. The method of any one of claims 5-10, further comprising:
determining a time instance to upgrade a firmware of the motorized scooter based on the vehicle status of the motorized scooter; and
upgrading the firmware of the motorized scooter at the determined time instance.

12. An apparatus for operating a motorized scooter, the apparatus being a part of a motorized scooter, the apparatus comprising:

a memory; and

at least one processor coupled to the memory and configured to:

receive an unlock request from a remote server;

unlock the motorized scooter in response to the unlock request; and

continuously upload status of the motorized scooter to the remote server based on a schedule when the motorized scooter is unlocked.

13. The apparatus of claim 12, wherein the at least one processor is further configured to:

receive a lock request from the remote server; and

lock the motorized scooter in response to the lock request.

14. The apparatus of claim 12 or 13, wherein the at least one processor is further configured to:

receive a speed control command from the remote server; and

set a maximum speed of the motorized scooter based on the speed control command.

15. The apparatus of any one of claims 12-14, wherein the at least one processor is further configured to:

establish a wireless connection with the remote server based on a wireless communication identifier associated with the motorized scooter and a vehicle identifier of the motorized scooter.

16. An apparatus for managing motorized scooters, the apparatus being a server, the apparatus comprising:

a memory; and

at least one processor coupled to the memory and configured to:

receive, from a mobile device, a vehicle identifier of a motorized scooter;

retrieve a vehicle status of the motorized scooter based on the vehicle identifier;

generate an unlock request when the vehicle status is a normal usable status;

and

transmit the unlock request to the motorized scooter.

17. The apparatus of claim 16, wherein the at least one processor is further configured to:

continuously receive, from the motorized scooter, the vehicle status of the motorized scooter based on a schedule.

18. The apparatus of claim 16 or 17, wherein the at least one processor is further configured to:

receive a message from the mobile device, the message requesting locking the motorized scooter;

generate a lock request in response to the message when the motorized scooter is in an unlocking status; and

transmit the lock request to the motorized scooter.

19. The apparatus of any one of claims 16-18, wherein the at least one processor is further configured to:

generate a speed control command limiting a maximum speed of the motorized scooter based on the vehicle status of the motorized scooter; and

transmit the speed control command to the motorized scooter.

20. The apparatus of any one of claims 16-19, wherein the at least one processor is further configured to:

determine whether there is an active order associated with the motorized scooter when the motorized scooter is unlocked; and

transmit a lock request to the motorized scooter when there is no active order associated with the motorized scooter and the motorized scooter is unlocked.

21. The apparatus of any one of claim 16-20, wherein the at least one processor is further configured to:

determine whether an order associated with the motorized scooter is active when the motorized scooter is locked; and

terminate the order when the order is active and the motorized scooter is locked.

22. The apparatus of any one of claims 16-21, wherein the at least one processor is further configured to:

determine a time instance to upgrade a firmware of the motorized scooter based on the vehicle status of the motorized scooter; and

upgrade the firmware of the motorized scooter at the determined time instance.