CLAIMS

What is claimed is:

1. A parking fee collection method~~, applied to~~ performed by a parking fee collection system, wherein the method comprises:

~~obtaining~~ detecting, by using a first Internet of Things device located in a position directed to a parking space, coating material of an electrical medium disposed on an outer surface of a vehicle to determine that the vehicle is parked in the parking space, wherein the electrical medium is a carbon structural material of a nanometer level that forms a circuit layer enclosing the vehicle;

in response to determining that the vehicle is parked in the parking space, triggering, by the first Internet of Things device, a second Internet of Things device to obtain vehicle information of ~~a parked~~ the vehicle ~~in a parking space~~, wherein obtaining the vehicle information ~~has~~ comprises scanning the vehicle, wherein scanning the vehicle causes the circuit layer to generate an electrical signal uniquely corresponding to body surface structure data of the vehicle, and wherein the vehicle information comprises the body surface structure data of the vehicle and is associated with a corresponding user account on a payment platform; and

~~initiating a payment~~ performing real-time fee collection ~~request for~~ by collecting a micropayment from the user account in every second while the vehicle ~~information to the payment platform each time a parking time period of the~~ is parked ~~vehicle~~ in the parking space ~~reaches a first predetermined time period, to collect an asset~~ , wherein the micropayment corresponds to a parking fee corresponding to ~~the first predetermined time period~~ one second.

~~2. The method according to claim 1, wherein the obtaining vehicle information of a parked vehicle in a parking space comprises:~~

~~performing an information acquisition operation at the parking space by using a first Internet of Things device associated with the parking fee collection system; and~~

~~determining the vehicle information of the parked vehicle based on information obtained by the first Internet of Things device.~~

~~3~~2. The method according to claim ~~2~~1, wherein the first Internet of Things device is dedicated to the parking space; or the first Internet of Things device is used for the

parking space and at least one other parking space.

~~4~~3. The method according to claim ~~2~~1, wherein the first Internet of Things device comprises at least one of the following: a monitoring device, an RFID reader, a Bluetooth device, an optical sensor, and a signal receiver.

~~5. The method according to claim 2, wherein the performing an information acquisition operation at the parking space by using a first Internet of Things device associated with the parking fee collection system comprises:~~

~~when it is determined that there is a parked vehicle in the parking space by using the first Internet of Things device, further performing an information acquisition operation on the parked vehicle by using the first Internet of Things device; or~~

~~when it is determined that there is a parked vehicle in the parking space by using a second Internet of Things device associated with the parking fee collection system, further performing an information acquisition operation on the parked vehicle by using the first Internet of Things device.~~

~~6. The method according to claim 1, wherein the initiating a payment collection request for the vehicle information to the payment platform each time a parking time period of the parked vehicle in the parking space reaches a first predetermined time period, to collect an asset corresponding to the first predetermined time period comprises:~~

~~when the parking time period of the parked vehicle in the parking space reaches the first predetermined time period, initiating the payment collection request for the vehicle information to the payment platform; and~~

~~after the asset corresponding to the first predetermined time period is collected, resetting the parking time period to recalculate the parking time period.~~

~~7~~4. The method according to claim 1, wherein the user account corresponds ~~collected asset corresponding to the first predetermined time period comes from the user account corresponding~~ to the vehicle information on the payment platform; or when a limit of credit of the user account is not exceeded, the micropayment ~~collected asset corresponding to the first predetermined time period~~ comes from a credit asset related to the user account.

~~8. The method according to claim 1, wherein the initiating a payment collection request for the vehicle information to the payment platform comprises:~~

~~counting a total parking time period of the parked vehicle in a parking lot in which the parking space is located; and~~

~~initiating the payment collection request to the payment platform based on a fee collection criterion corresponding to a time period range within which the total parking time period falls.~~

~~9. The method according to claim 8, further comprising:~~

~~resetting the total parking time period when the parked vehicle leaves the parking space; or~~

~~resetting the total parking time period when the parked vehicle leaves the parking space and is not parked in any parking space in the parking lot within a second predetermined time period; or~~

~~resetting the total parking time period when the parked vehicle leaves the parking lot.~~

~~10~~5. The method according to claim 1, further comprising:

when a vehicle travels to an entrance of a parking lot in which the parking space is located, initiating an inquiry request to the payment platform based on vehicle information of the vehicle; and

when it is determined that a user account corresponding to the vehicle information of the vehicle exists on the payment platform, allowing the vehicle to enter, so that the vehicle enters the parking lot; otherwise, deny entry to ~~denies~~ the vehicle ~~to enter~~.

~~11. A parking fee collection method, applied to a parking fee collection system, wherein the method comprises:~~

~~obtaining vehicle information of a parked vehicle in a parking space, wherein the vehicle information has a corresponding user account on a payment platform; and~~

~~when it is detected that the parked vehicle leaves the parking space, initiating a payment collection request for the vehicle information to the payment platform based on a parking time period of the parked vehicle in the parking space, to collect an asset corresponding to the parking time period.~~

~~12. A parking fee collection apparatus, applied to a parking fee collection system, wherein the apparatus comprises:~~

~~an acquisition unit, configured to obtain vehicle information of a parked vehicle in a parking space, wherein the vehicle information has a corresponding user account on a payment platform; and~~

~~a collection unit, configured to initiate a payment collection request for the vehicle information to the payment platform each time a parking time period of the~~

parked vehicle in the parking space reaches a first predetermined time period, to collect an asset corresponding to the first predetermined time period.

13. The apparatus according to claim 12, wherein the acquisition unit is specifically configured to:

perform an information acquisition operation at the parking space by using a first Internet of Things device associated with the parking fee collection system; and

determine the vehicle information of the parked vehicle based on information obtained by the first Internet of Things device.

14. The apparatus according to claim 13, wherein the first Internet of Things device is dedicated to the parking space; or the first Internet of Things device is used for the parking space and at least one other parking space.

15. The apparatus according to claim 13, wherein the first Internet of Things device comprises at least one of the following: a monitoring device, an RFID reader, a Bluetooth device, and an optical sensor.

16. The apparatus according to claim 13, wherein the acquisition unit is specifically configured to:

when it is determined that there is a parked vehicle in the parking space by using the first Internet of Things device, further perform an information acquisition operation on the parked vehicle by using the first Internet of Things device; or

when it is determined that there is a parked vehicle in the parking space by using a second Internet of Things device associated with the parking fee collection system, further perform an information acquisition operation on the parked vehicle by using the first Internet of Things device.

17. The apparatus according to claim 12, wherein the collection unit is specifically configured to:

when the parking time period of the parked vehicle in the parking space reaches the first predetermined time period, initiate the payment collection request for the vehicle information to the payment platform; and

after the asset corresponding to the first predetermined time period is collected, reset the parking time period to recalculate the parking time period.

18. The apparatus according to claim 12, wherein the collected asset corresponding to the first predetermined time period comes from the user account corresponding to the vehicle information on the payment platform; or when a limit of credit of the user account is not exceeded, the collected asset corresponding to the first

~~predetermined time period comes from a credit asset related to the user account.~~

~~19. The apparatus according to claim 12, wherein the collection unit is specifically configured to:~~

~~count a total parking time period of the parked vehicle in a parking lot in which the parking space is located; and~~

~~initiate the payment collection request to the payment platform based on a fee collection criterion corresponding to a time period range within which the total parking time period falls.~~

~~20. The apparatus according to claim 19, further comprising:~~

~~a resetting unit, configured to reset the total parking time period when the parked vehicle leaves the parking space; or reset the total parking time period when the parked vehicle leaves the parking space and is not parked in any parking space in the parking lot within a second predetermined time period; or reset the total parking time period when the parked vehicle leaves the parking lot.~~

~~21. The apparatus according to claim 12, further comprising:~~

~~a querying unit, configured to: when a vehicle travels to an entrance of a parking lot in which the parking space is located, initiate an inquiry request to the payment platform based on vehicle information of the vehicle; and~~

~~a control unit, configured to: when it is determined that a user account corresponding to the vehicle information of the vehicle exists on the payment platform, allow the vehicle to enter, so that the vehicle enters the parking lot; otherwise, deny the vehicle to enter.~~

~~22. A parking fee collection apparatus, applied to a parking fee collection system, wherein the apparatus comprises:~~

~~an acquisition unit, configured to obtain vehicle information of a parked vehicle in a parking space, wherein the vehicle information has a corresponding user account on a payment platform; and~~

~~a collection unit, configured to: when it is detected that the parked vehicle leaves the parking space, initiate a payment collection request for the vehicle information to the payment platform based on a parking time period of the parked vehicle in the parking space, to collect an asset corresponding to the parking time period.~~

~~23~~6. An electronic device, comprising:

a processor; and

a memory, configured to store a processor-executable instruction, wherein

the processor is configured to perform the method according to any one of claims 1 to ~~11~~5.