What is claimed is:

1. An electric shaver, comprising a machine body and a cutter head that are connected to each other, wherein the machine body comprises a housing, a control chip and a driving component which are provided within the housing, and a handle induction element which is provided on the housing, the cutter head comprises a head portion induction element, wherein the control chip is respectively connected to the driving component, the handle induction element and the head portion induction element, and the driving component is further connected to the cutter head; and

   the handle induction element is configured to generate a first induction signal when sensing proximity of skin, and send the first induction signal to the control chip; the head portion induction element is configured to generate a second induction signal when sensing proximity of skin, and send the second induction signal to the control chip; and the control chip is configured to send a driving control signal to the driving component when receiving the first induction signal and the second induction signal, so that the driving component drives the cutter head to work.

2. The electric shaver according to claim 1, wherein the handle induction element comprises a first induction coil provided on an inner wall of the housing; and the cutter head comprises a cutter net cover, and the head portion induction element comprises the cutter net cover and/or a second induction coil provided around the cutter net cover.

3. The electric shaver according to claim 1 or 2, wherein the driving component comprises a motor control switch and a motor connected to each other, and the motor control switch is connected to the control chip, the motor is connected to the cutter head, and the motor is configured to drive the cutter head to work.

4. The electric shaver according to any one of claims 1-3, wherein a charging interface is further provided on the housing, and a power conversion module, a charging switch and an electric energy storage module are further provided within the housing, wherein the power conversion module, the charging switch and the electric energy storage module are all connected to the control chip; and the power conversion module is connected to the charging interface and the charging switch at the same time, and both the power conversion module and the charging switch are connected to the electric energy storage module.

5. An electric shaver, wherein the electric shaver comprises a machine body and a cutter head that are connected to each other, wherein the machine body comprises a housing, a control chip and a driving component, wherein the control chip and the driving component are provided within the housing, and a head portion induction element is provided on the cutter head; the cutter head is in transmission connection with the driving component, and both the head portion induction element and the driving component are connected to the control chip; and the control chip is configured to control

the driving component to be started when receiving a signal from the head portion induction element;

the cutter head can be closed or opened relative to the machine body, wherein when the cutter head is closed relative to the machine body, the driving component is in transmission connection with the cutter head, and when the cutter head is opened relative to the machine body, the driving component is separated from the cutter head; and

the electric shaver further comprises a guide assembly, the guide assembly is connected to the control chip, when the cutter head is closed relative to the machine body, the guide assembly is communicated to the head portion induction element, so that the control chip is communicated to the head portion induction element; and when the cutter head is opened relative to the machine body, the guide assembly is disconnected from the head portion induction element, so that the control chip is disconnected from the head portion induction element,

wherein the guide assembly comprises a first conductive sheet and a first conductive wire, wherein the first conductive sheet is connected to the transmission shaft assembly, and two ends of the first conductive wire are respectively connected to the control chip and the first conductive sheet;

wherein the first conductive wire is a shielded wire.

6. The electric shaver according to claim 5, wherein the cutter head further comprises a cutter net cover and an inner blade provided inside the cutter net cover; and

the head portion induction element comprises the cutter net cover, and the control chip can be communicated to the cutter net cover, so as to be configured to control the driving component to be started to drive the inner blade to work, or control the driving component to be turned off to make the inner blade stop working, when detecting that an electrical signal carried by the cutter net cover changes.

7. The electric shaver according to claim 5 or 6, wherein the driving component comprises a motor and a transmission shaft assembly being in transmission connection with the motor, wherein the motor is provided in an inner cavity of the housing and connected to the control chip; a drive connection hole communicating with the inner cavity of the housing is provided on an end surface of one end of the housing; and the transmission shaft assembly is provided on the end surface, and the transmission shaft assembly passes through the drive connection hole to be in transmission connection with the motor, when the cutter head is closed relative to the machine body, the transmission shaft assembly is in transmission connection with the cutter head, and when the cutter head is opened relative to the machine body, the transmission shaft assembly is separated from the cutter head; and

the guide assembly is connected to the control chip and the transmission shaft assembly at the same time, when the transmission shaft assembly is

in transmission connection with the cutter head, the control chip is communicated to the head portion induction element through the guide assembly, the transmission shaft assembly and the cutter head sequentially; and when the transmission shaft assembly is separated from the cutter head, the transmission shaft assembly is disconnected from the cutter head, so that the control chip is disconnected from the head portion induction element.

~~8. The electric shaver according to claim 7, wherein the guide assembly comprises a first conductive sheet and a first conductive wire, wherein the first conductive sheet is connected to the transmission shaft assembly, and two ends of the first conductive wire are respectively connected to the control chip and the first conductive sheet.~~

~~9. The electric shaver according to claim 8, wherein the first conductive wire is a shielded wire.~~

~~10~~8. The electric shaver according to claim 5 or 6, wherein the guide assembly comprises a conduction connection assembly and a conduction control assembly, wherein the conduction connection assembly is provided inside the housing and connected to the control chip; and

the conduction control assembly is provided on the machine body, and when the cutter head is closed relative to the machine body, the conduction control assembly is communicated to the head portion induction element and the conduction connection assembly at the same time, so that the control chip is communicated to the head portion induction element through the conduction connection assembly and the conduction control assembly sequentially, and when the cutter head is opened relative to the machine body, the conduction control assembly is disconnected from the head portion induction element, so that the control chip is disconnected from the head portion induction element.

~~11~~9. The electric shaver according to claim ~~10~~8, wherein the conduction connection assembly comprises a second conductive sheet and a second conductive wire, the second conductive sheet is connected to one end of the conduction control assembly away from the cutter head, and the second conductive wire is connected to the control chip and the second conductive sheet at the same time.

~~12~~10. The electric shaver according to claim ~~11~~9, wherein the second conductive wire is a shielded wire.

~~13~~11. The electric shaver according to any one of claims ~~10-12~~8-10, wherein a control connection hole communicating with an inner cavity of the housing is provided on the housing; and the conduction control assembly comprises a connecting member and a control member, wherein the connecting member passes through the control connection hole; a first end of the connecting member is located in the housing and configured to be communicated to the conduction connection assembly; and a second end of the connecting member is located outside the housing and configured to be communicated to the head portion induction element; and

the control member is provided on the connecting member, when the cutter head is closed relative to the machine body, the second end is communicated to the head portion induction element, and the first end is communicated to the conduction connection assembly, so that the control chip is communicated to the head portion induction element; and when the cutter head is opened relative to the machine body, the second end is disconnected from the head portion induction element, and the control member makes the first end disconnected from the conduction connection assembly, so that the control chip is disconnected from the connecting member and the head portion induction element at the same time.

~~14~~12. The electric shaver according to claim ~~13~~11, wherein the connecting member comprises a connecting component and a blocking component, the connecting component passes through the control connection hole, and one end of the connecting component is located in the housing, the other end of the connecting component is located outside the housing, the blocking component is connected to one end of the connecting component located inside the housing; and the blocking component is configured to abut against the housing to prevent the connecting member from disengaging from the housing.

~~15~~13.The electric shaver according to claim ~~13~~ 11 or ~~14~~12, wherein the control member comprises an elastic component, the elastic component is connected to the connecting member, and the elastic component is configured to make the connecting member have a tendency of moving away from the conduction connection assembly, when the cutter head is closed relative to the machine body, the connecting member compresses the elastic component, and the first end of the connecting member is communicated to the conduction connection assembly, so that the control chip is communicated to the head portion induction element through the conduction connection assembly and the connecting member sequentially; and when the cutter head is opened relative to the machine body, the connecting member is away from the conduction connection assembly under an action of an elastic force of the elastic component, so that the connecting member is disconnected from the conduction connection assembly, and the control chip is disconnected from the cutter head.

~~16~~14. The electric shaver according to any one of claims ~~10-15~~8-13, wherein the guide assembly further comprises a cutter net contacting elastic piece, and the cutter net contacting elastic piece is provided on the cutter head, and connected to the head portion induction element, when the cutter head is closed relative to the machine body, the conduction control assembly is communicated to the head portion induction element through the cutter net contacting elastic piece.

~~17~~15. The electric shaver according to claim ~~16~~14, wherein the electric shaver further comprises a cutter head support movably connected to the machine body, wherein a plurality of cutter heads are provided, the plurality of cutter heads are all provided on the cutter head support, and the cutter net contacting elastic piece comprises a first elastic piece part connected to the

head portion induction element and a second elastic piece part configured to be communicated to the conduction control assembly, wherein the first elastic piece part and the second elastic piece part are connected to each other, and the first elastic piece part and the cutter head are provided in a one-to-one correspondence.

~~18~~16. The electric shaver according to claim ~~17~~15, wherein a plurality of first elastic piece parts and a plurality of second elastic piece parts are provided, and the plurality of first elastic piece parts and the plurality of second elastic piece parts are alternately arranged in a circumferential direction.

~~19~~17. The electric shaver according to any one of claims 5-~~18~~16, wherein the electric shaver is a beard clipper, and the driving component of the beard clipper comprises an ultrasonic amplitude coil and a high-frequency acoustic-wave oscillation circuit, wherein the ultrasonic amplitude coil and the high-frequency acoustic-wave oscillation circuit are both located in the machine body, and the cutter head is in transmission connection with the ultrasonic amplitude coil.

~~20~~18. The electric shaver according to any one of claims 5-~~18~~16, wherein the electric shaver is a hair clipper, and the electric shaver further comprises a movable cutter adjuster provided on a wall surface of the machine body, and the movable cutter adjuster is configured to control an operation state of the cutter head.

~~21~~19. The electric shaver according to any one of claims 5-~~18~~16, wherein the electric shaver is a hairball trimmer, wherein the cutter head comprises a cutter net assembly, and a transmission assembly is provided in the machine body, the transmission assembly is in transmission connection with the cutter net assembly, and a hairball sticker configured to collect hair balls is further provided in the machine body.

~~22~~20. An electric shaver, comprising a machine body, a head cover assembly, a start-stop controller and a drive assembly, wherein the head cover assembly comprises a cutter net cover and a cutter head provided inside the cutter net cover, the cutter net cover is provided on the machine body, and the start-stop controller and the drive assembly are provided inside the machine body; and

the start-stop controller is connected to the drive assembly, can be communicated to the cutter net cover, and is configured to control the drive assembly to be started to drive the cutter head to work, or control the drive assembly to be turned off to make the cutter head stop working, when detecting that an electrical signal carried by the cutter net cover changes, a guide assembly comprises a first conductive sheet and a first conductive wire, wherein the first conductive sheet is connected to the transmission shaft assembly, and two ends of the first conductive wire are respectively connected to the control chip and the first conductive sheet, wherein the first conductive wire is a shielded wire.

~~23~~21. A handheld household electrical appliance, comprising:

an induction assembly, configured to detect whether the handheld household electrical appliance is in a state of being held by an operator,

wherein the induction assembly is further configured to detect a distance between the handheld household electrical appliance and an application object; and

a controller, configured to control an operating state of the handheld household electrical appliance according to a handheld state and a distance detected by the induction assembly,

wherein the induction assembly transmits a signal to a PCB board, and introduces the signal into the controller through the PCB board and a circuit.

~~24~~22. The handheld household electrical appliance according to claim ~~23~~21, wherein the induction assembly is electrically connected to the controller through a shielded wire.

~~25~~23. An electric shaver system, comprising the electric shaver according to any one of claims 1-~~22~~ 20 or the handheld household electrical appliance according to any one of claims ~~23~~21-~~24~~22, wherein the electric shaver system further comprises a charging head, the charging head is connected to the electric shaver, and the charging head is configured to charge the electric shaver, or the charging head is connected to the handheld household electrical appliance, and the charging head is configured to charge the handheld household electrical appliance.

~~26~~24. A control method, wherein the control method comprises steps of:

acquiring a touch signal; and

determining whether the touch signal is generated by a human body contacting a cutter head of an electric shaver, wherein when the touch signal is not generated by the human body contacting the cutter head, a driving component is controlled to be turned off, and when the touch signal is generated by the human body contacting the cutter head, a usable duration of the electric shaver is obtained,

wherein when the usable duration is greater than 0, the driving component of the electric shaver is controlled to be started~~, and when the usable duration is less than 0, the driving component is controlled to be turned off~~.

~~27~~25. The control method according to claim ~~26~~24, wherein after the driving component of the electric shaver is controlled to be started, the method further comprises:

acquiring a current value and a duration of the current value for performing current detection.

~~28~~26. The control method according to claim ~~26~~ 24 or ~~27~~25, wherein before the step of acquiring a touch signal, the method further comprises:

acquiring a charging state of the electric shaver, wherein the touch signal is acquired when the electric shaver is not in the charging state, and a state of the driving component is acquired when the electric shaver is in the charging state, wherein if the driving component is in an on state, the driving component is controlled to be turned off.

~~29~~27. The control method according to claim ~~28~~26, wherein after the step that a state of the driving component is acquired when the electric shaver is in the charging state, wherein if the driving component is in an on state, the driving component is controlled to be turned off, the method further comprises:

acquiring a voltage value of an electric energy storage module of the electric shaver, wherein when the voltage value is greater than or equal to 4.2v, the electric shaver is controlled to stop being charged, and when the voltage value is less than 4.2v, a temperature value of the electric energy storage module is acquired, wherein when the temperature value is greater than or equal to 70°C or less than or equal to -10°C, the electric shaver is controlled to stop being charged, and when the temperature value is greater than -10°C and less than 70°C, the voltage value of the electric energy storage module is acquired, wherein when the voltage value is less than 3.0v, the electric shaver is controlled to be charged with a small current, and when the voltage value is greater than or equal to 3.0v, the electric shaver is controlled to be charged with a constant current.