CLAIMS

1. A laundry treatment apparatus, comprising:

an electrolysis device comprising an electrode assembly, the electrode assembly comprising electrode plates and a solid electrolyte, at least one of the electrode plates being a cathode, at least one of the electrode plates being an anode, the cathode and the anode being stacked in a first direction, the solid electrolyte being disposed between the cathode and the anode;

a laundry treatment chamber;

a water valve;

a first liquid path, the first liquid path connecting the water valve with the laundry treatment chamber, the electrolysis device being disposed in the first liquid path.

2. The laundry treatment apparatus of claim 1, further comprising a detergent box,

wherein the detergent box is disposed in the first liquid path and located downstream of the electrolysis device; or

the laundry treatment apparatus further comprises a second liquid path, the second liquid path connecting the water valve with the laundry treatment chamber, the detergent box being disposed in the second liquid path; or

the electrolysis device is located on a rear side of the detergent box; or

the laundry treatment apparatus further comprises a barrel assembly, the electrolysis device being located above the barrel assembly.

3. The laundry treatment apparatus of claim 1, wherein the electrolysis device comprises a housing formed with a liquid inlet, a liquid outlet and a flow chamber, the liquid inlet and the liquid outlet being in communication with the flow chamber, at least a portion of the electrode assembly being located in the flow chamber, fluid in the first liquid path flowing through the liquid inlet, the flow chamber and the liquid outlet in sequence, and

wherein the liquid inlet is formed in one side surface of the housing in a second direction, the liquid outlet being formed in a lower surface of the housing, and the first direction, the second direction and a vertical direction being perpendicular to each other.

4. The laundry treatment apparatus of claim 1, wherein the electrode assembly comprises a support frame, the solid electrolyte being disposed on the support frame, and

wherein the support frame is located between the cathode and the anode, the solid electrolyte at least covering one side surface of the support frame in the first direction.

5. The laundry treatment apparatus of claim 1, wherein a plane perpendicular to the first direction is defined as a projection plane, a projection of each of the electrode plates on the projection plane being located within a projection range of the solid electrolyte, or

wherein each of the electrode plates is formed with a through hole extending through two side surfaces of the electrode plate in the first direction.

6. The laundry treatment apparatus of any one of claims 1 to 5, wherein the electrolysis device comprises two clamping members, the electrode assembly being clamped between the two clamping members.

7. The laundry treatment apparatus of claim 6, wherein each clamping member comprises a clamping plate, the clamping plates of the two clamping members being located on two sides of the electrode assembly in the first direction, the clamping plate being formed with a liquid passage notch, the liquid passage notch extending through two side surfaces of the clamping plate in the first direction.

8. The laundry treatment apparatus of claim 7, wherein each clamping member comprises an electric connection portion connected to the clamping plate, a plane perpendicular to the first direction being defined as a projection plane, projections of the electric connection portions of the two clamping members on the projection plane being spaced apart from each other.

9. The laundry treatment apparatus of claim 1, further comprising:

a barrel assembly having the laundry treatment chamber and provided with a washing water discharge port in communication with the laundry treatment chamber; and

a circulation waterway system connected to the washing water discharge port and configured to guide the washing water discharged from the washing water discharge port to the

laundry treatment chamber;

wherein the electrolysis device is disposed in the circulation waterway system and configured to electrolyze the washing water flowing through the circulation waterway system.

10. The laundry treatment apparatus of claim 9, wherein the circulation waterway system comprises a circulation waterway and a circulation pump connected to the circulation waterway, the electrolysis device being disposed in the circulation waterway.

11. The laundry treatment apparatus of claim 10, wherein the electrolysis device comprises a housing formed with a liquid inlet, a liquid outlet and a flow chamber, the liquid inlet and the liquid outlet being in communication with the flow chamber, at least a portion of the electrode assembly being located in the flow chamber, fluid in the circulation waterway flowing through the liquid inlet, the flow chamber and the liquid outlet in sequence.

12. The laundry treatment apparatus of claim 9, wherein the circulation waterway system comprises a circulation waterway and a circulation pump connected to the circulation waterway, the electrolysis device being disposed within the circulation pump.

13. The laundry treatment apparatus of claim 12, wherein the electrolysis device comprises a housing formed with a liquid inlet, a liquid outlet and a flow chamber, the liquid inlet and the liquid outlet being in communication with the flow chamber, at least a portion of the electrode assembly being located in the flow chamber, fluid in the circulation pump flowing through the liquid inlet, the flow chamber and the liquid outlet in sequence; or

at least a portion of the electrode assembly is disposed within the circulation pump and exposed within the circulation pump, the fluid in the circulation pump being in contact with the electrode assembly.

14. The laundry treatment apparatus of claim 10 or 12, wherein the circulation waterway system comprises at least one nozzle in communication with the circulation waterway, the circulation pump pumping the washing water flowing through the circulation waterway to the nozzle, an injection orifice of the nozzle being in communication with the laundry treatment chamber.

15. The laundry treatment apparatus of any one of claims 1 to 14, wherein at least one of the

cathode and the anode abuts against the solid electrolyte; or

the cathode is connected with a cathode terminal part for connecting to an external power wire, and the anode is connected with an anode terminal part for connecting to an external power wire.