

WATER ELECTROLYSIS DEVICE

ABSTRACT

A water electrolysis device comprises an ion exchange membrane electrolytic cell. The ion exchange membrane electrolytic cell includes an ion exchange membrane, a cathode chamber, an anode chamber, a hydrogen output tube, and an oxygen output tube. An anode is configured in the anode chamber, and a cathode is configured in the cathode chamber. The ion exchange membrane is configured between the anode chamber and the anode chamber. The hydrogen output tube is coupled to the cathode chamber, and the oxygen output tube is coupled to the anode chamber. When water is electrolyzed by the ion exchange membrane electrolytic cell, oxygen is generated by the anode and then exported through the oxygen output tube, and hydrogen is generated by the cathode and then exported through the hydrogen output tube. The hydrogen and the oxygen are exported from the same side of the ion exchange membrane electrolytic cell.

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FIG. 1C