

Title (en)

APPARATUS FOR PRODUCING HIGH-CONCENTRATION ELECTROLYTIC WATER

Title (de)

VORRICHTUNG ZUR ERZEUGUNG VON HOCHKONZENTRIERTEM LEKTROLYTISCHEM WASSER

Title (fr)

APPAREIL DE PRODUCTION D'EAU ELECTROLYTIQUE A FORTE CONCENTRATION

Publication

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Application

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Priority

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Abstract (en)

[origin: WO0127037A1] An apparatus for producing high-concentration electrolytic water is provided. Forming a pair of electrodes facing each other using a platinum (Pt) alloy containing palladium (Pd) prolongs the electrode life. Forming slits on the facing electrodes to make the apparatus highly efficient, thereby generating high-concentration electrolytic water, reduces a water flow rate and a space charge effect. Applying square-wave pulse power voltages can facilitate electrophysicochemical reaction and electrolysis. The polarities of applied pulse power voltages are alternated to suppress the electrodes from being scaled due to impurities. Strong alkaline water and strong acid water can be obtained by adding salt to service water. Further, neutral water can be obtained and hydrogen ion concentration (pH) can be controlled, by removing a separating membrane.

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C02F 1/461

IPC 8 full level

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