

Title (en)

METHOD AND DEVICE FOR SYNTHESISING OXIDANTS FROM AQUEOUS SODIUM CHLORIDE SOLUTIONS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR SYNTHESE VON OXIDANTIEN AUS WÄSSRIGEN NATRIUMCHLORIDLÖSUNGEN

Title (fr)

PROCEDE ET DISPOSITIF DE SYNTHESE D'OXYDANTS ISSUS DE SOLUTIONS AQUEUSES DE CHLORURE DE SODIUM

Publication

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Application

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Abstract (en)

[origin: WO02085795A1] The invention relates to a method and a device for synthesising oxidants from aqueous sodium chloride solutions. According to said method, aqueous sodium chloride solution is supplied to the anode chamber and sodium hydroxide to the cathode chamber. The sodium chloride solution has a concentration in the range of approximately 1-3 g/l. The sodium hydroxide solution has a concentration of at least 100 g/l and is pumped through the circulatory cathode circuit at a speed that guarantees a minimum gas content in the cathode chamber. The device for carrying out the method comprises a diaphragm cell with an inlet into the anode chamber for the sodium chloride solution and an outlet for the oxidants into the collection container, a circulatory cathode circuit, which is connected to the container for the sodium hydroxide with a concentration of at least 100 g/l and an additional connection piece with a valve for supplying pure water to the container for the sodium hydroxide. A device for regulating the flow rate of the sodium hydroxide solution is integrated into the circulatory cathode circuit. A pressure pump can also be provided in the device for regulating the circulation speed of the flow.

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