

Title (en)
PROCESS FOR THE PRODUCTION OF HYDROGEN PEROXIDE AND CHLORATE

Title (de)
VERFAHREN ZUR HERSTELLUNG VON WASSERSTOFFPEROXID UND CHLORAT

Title (fr)
PROCÉDÉ DE PRODUCTION DE PEROXYDE D'HYDROGÈNE ET DE CHLORATE

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Application
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Abstract (en)
[origin: WO2007004971A1] The invention relates to a process for the production of alkali metal chlorate comprising: providing an electrochemical cell comprising an anode and a cathode in separate anode and cathode compartments; contacting the cathode with an electrolyte comprising at least one organic mediator and one or more organic or mineral acids; reacting the organic mediator at the cathode to form at least one reduced form of the mediator; reacting the at least one reduced form of the mediator with oxygen to form hydrogen peroxide; contacting the anode with an anolyte comprising alkali metal chloride; reacting chloride at the anode to form chlorine that is hydrolysed; and, reacting the hydrolysed chlorine to form chlorate.

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