

Title (en)
Process for the electrolysis of brine

Title (de)
Vefahren zur Elektrolyse einer Salzlösung

Title (fr)
Procédé d'électrolyse d'une saumure

Publication
EP 0903425 B1 20071031 (FR)

Application
EP 98402268 A 19980915

Priority
FR 9711795 A 19970923

Abstract (en)
[origin: EP0903425A1] An electrolytic process for the production of an aqueous sodium hydroxide solution uses an oxygen reduction cathode and a cation exchange membrane. The electrolytic cell comprises a cation exchange membrane dividing it into anodic and cathodic compartments. The cathode is placed directly against the membrane and the compartment is supplied with a moist gas containing O₂. To obtain a weight concentration between the cation exchange membrane and the cathode of less than 38.8% of NaOH (a higher concentration reduces the life of the membrane), aqueous solutions of NaCl (anolyte) with a weight concentration of NaCl less than 200 g/l are electrolyzed. The O₂-containing gas contains water vapor.

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