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(71) Applicants: **DE NORA ELETTRODI S.P.A.** [IT/IT]; Via Dei Canzi, 1, I-20134 Milan (IT). **BAYER AG** [DE/DE]; 51368 Leverkusen (DE).

(72) Inventors: **ALLEN, Robert, J.**; 130 Adams Avenue, Saugust, MA 01906 (US). **GIALLOMBARDO, James, R.**; 25 Hull Street, Beverly, MA 01915 (US). **CZERWIEC, Daniel**; Cedar Street, Wellesley, MA 02481 (US). **DE CASTRO, Emory, S.**; 60 Little Nahant Road, Nahant, MA 01908-1028 (US). **SHAIKH, Khaleda**; 17 Fuller Lane, Concord, MA 01742 (US). **GESTERMANN, Fritz**; Berliner Strasse 83, 51377 Leverkusen (DE). **PINTER, Hans-Dieter**; Forstring 20, 42929 Wermelskirchen (DE). **SPEER, Gerd**; Am Weiher 5, 51399 Burscheid (DE).

(74) Agents: **KINZEBACH, Werner** et al.; Reitstötter, Kinzebach & Partner, Sternwartstrasse 4, 81679 Munich (DE).

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(54) Title: PROCESS FOR THE ELECTROLYSIS OF TECHNICAL-GRADE HYDROCHLORIC ACID CONTAMINATED WITH ORGANIC SUBSTANCES USING OXYGEN-CONSUMING CATHODES

(57) Abstract: The present invention relates to a process for electrolysing an aqueous solution of hydrochloric acid to chlorine in an electrochemical cell provided with an anode compartment and a cathode compartment including at least one gas diffusion cathode. The gas diffusion cathode comprises an electrically conductive web provided on at least on side thereof with a coating of a catalyst comprising rhodium sulphide for the electro-reduction of oxygen. The novel catalyst for oxygen reduction has an improved chemical stability towards highly corrosive media and a high electrocatalytic activity in the presence of organic contaminants.



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