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(21) International application number: PCT/EP98/07974 (22) International filing date: 8 December 1998 (08.12.98) (30) Data relating to the priority: 197 55 636.1 15 December 1997 (15.12.97) DE (71) Applicant (for all designated States except US): BAYER AKTIENGESELLSCHAFT [DE/DE]; D-51368 Leverkusen (DE). (72) Inventors; and (75) Inventors/Applicants (US only): GESTERMANN, Fritz [DE/DE]; Berliner Strasse 83, D-51377 Leverkusen (DE). (74) Joint Representative: BAYER AKTIENGE- SELLSCHAFT; D-51368 Leverkusen (DE).		(81) Designated states: AU, BR, CA, CN, ID, IN, JP, KR, MX, NO, SG, US, VN, European Patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published With the International Search Report. Before expiry of the period provided for amending the claims. Further publication will be made if such amendments are received.
As printed (54) Title: METHOD FOR ELECTROCHEMICALLY PROCESSING HCl GAS INTO HIGHLY PURE CHLORINE (54) Bezeichnung: VERFAHREN ZUR ELEKTROCHEMISCHEN AUFARBEITUNG VON HCl-GAS ZU HOCHREINEM CHLOR (57) Abstract Disclosed is a method for electrochemically processing HCl gas into highly pure chlorine, whereby an HCl gas phase electrolysis process is combined with purified HCl gas, e.g. from chemical reactions with hydrochloric electrolysis and diluted hydrochloric acid, optionally using an oxygen consuming cathode. (57) Zusammenfassung Es wird ein Verfahren zur elektrochemischen Aufarbeitung von HCl-Gas zu hochreinem Chlor beschrieben, bei dem der Prozeß einer HCl-Gasphasenelektrolyse mit gereinigtem HCl-Gas z.B. aus chemischen Reaktionen mit einer Salzsäureelektrolyse mit verdünnter Salzsäure ggf. unter Verwendung einer Sauerstoffverzehrkatode gekoppelt ist.		