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(21) International application number: PCT/EP99/02627 (22) International filing date: 19 April 1999 (19.04.99) (30) Data relating to the priority: 198 17 794.1 21 April 1998 (21.04.99) DE (71) Applicant (for all designated States except US): BASF AKTIENGESellschaft [DE/DE]; D-67056 Ludwigshafen (DE). (72) Inventors; and (75) Inventors/Applicants (US only): FISCHER, Martin [DE/DE]; Elbinger Weg 1, D-67071 Ludwigshafen (DE). STAMMER, Achim [DE/DE]; Buttstädter Strasse 6, D-67251 Freinsheim (DE). QUAISER, Stefan [DE/DE]; Chenover Strasse 11, D-67117 Limburgerhof (DE). (74) Representatives: KINZEBACH, Werner etc.; Ludwigsplatz 4, D-67059 Ludwigshafen (DE).		(81) Designated states: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HU, ID, IL, IN, JP, KR, KZ, LT, LV, MK, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, ZA, Eurasian Patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), 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, will be republished if such amendments are received.
As printed (54) Title: HIGHLY PURE AQUEOUS HYDROGEN PEROXIDE SOLUTIONS, METHOD FOR PRODUCING SAME AND THEIR USE (54) Bezeichnung: HOCHREINE WÄSSRIGE WASSERSTOFFPEROXID-LÖSUNGEN, VERFAHREN ZU IHRER HERSTELLUNG UND IHRE VERWENDUNG (57) Abstract The invention relates to highly pure aqueous hydrogen peroxide solutions for the electronics industry and to a method for producing such solutions which are essentially free from organic compounds. The invention is characterized in that, in each case in water, hydrogen and oxygen are catalytically reacted, oxygen is electrochemically reduced or acid ammonium sulfate solutions are electrolyzed. The reactions are carried out in the absence of organic compounds and materials releasing such compounds. (57) Zusammenfassung Die vorliegende Erfindung betrifft hochreine Wasserstoffperoxid-Lösungen für die Elektronikindustrie sowie ein Verfahren zur Herstellung derartiger Lösungen, die im wesentlichen frei von organischen Verbindungen sind, das dadurch gekennzeichnet ist, dass, jeweils in Wasser, Wasserstoff und Sauerstoff katalytisch umgesetzt, Sauerstoff elektrochemisch reduziert oder saure Ammoniumsulfatlösungen elektrolysiert werden, wobei die Umsetzungen unter Ausschluss von organischen Verbindungen und von Materialien, die diese freisetzen, erfolgen.		