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(21) International Application Number: PCT/SE00/00438 (22) International Filing Date: 3 March 2000 (03.03.00) (30) Priority Data: 9900781-7 5 March 1999 (05.03.99) SE (71) Applicant (for all designated States except US): OZONATOR LIMITED [-/-]; P.O. Box 1075, Elizabeth House, 9 Castle Street, Jersey JE4 2QP (GB). (72) Inventor; and (75) Inventor/Applicant (for US only): BORGSTRÖM, Jan [SE/SE]; Ålstorpsvägen 30, S-261 93 Landskrona (SE). (74) Agents: ÅKERMAN, Märten et al.; Albihus Patentbyrå Malmö AB, P.O. Box 4289, S-203 14 Malmö (SE).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), 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), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> <i>In English translation (filed in Swedish).</i>
(54) Title: PRESSURE COMPENSATION OZONE GENERATOR AND METHOD FOR GENERATION OF OZONE		
(57) Abstract The present invention relates to an apparatus and a method for ozone generator and a method for generating ozone by exposing oxygen to a high frequency alternating current with high voltage over a dielectric. In order to provide a simple, compact and low cost design, capable of increasing the power and improving the conversion efficiency of the apparatus, and to prevent the apparatus from damage or efficiency decrease, the apparatus comprises a pressure compensation admitting unit, joint together by at least two plates (2, 2') of a dielectric material and there between a present electrode (4), on which a high frequency alternatively current with high voltage is applicable, and two sealed spaces (1, 1') for generation of ozone on opposite sides of said unit (1, 2', 4), whereby the respective sealed space (1, 1'), on the opposite side of said plate (2, 2') of dielectric material, is delimited by an earthed and cooled electrode (3, 3'), through which oxygen gas or gas rich in oxygen is supplied to the space (1, 1') and ozone is conducted out of the same. By means of this apparatus oxygen gas or gas rich in oxygen can, according to the method of the present invention, be conducted under pressure into the sealed chambers (1, 1') on opposite sides of the pressure compensation admitting unit (2, 2', 4).		