

Title (en)
METHOD AND DEVICE FOR THE TREATMENT OF ORGANICALLY AND/OR BIOLOGICALLY CONTAMINATED WATER AND/OR AIR
CONTAMINATED WITH OXYGEN IONS

Title (de)
VERFAHREN UND VORRICHTUNG ZUR AUFBEREITUNG VON ORGANISCH UND/ODER BIOLOGISCH VERUNREINIGTEM WASSER BZW.
VERUNREINIGTER LUFT MIT SAUERSTOFF-IONEN

Title (fr)
PROCEDE ET DISPOSITIF DE TRAITEMENT D'EAU OU D'AIR ORGANIQUEMENT ET / OU BIOLOGIQUEMENT CONTAMINES A L'AIDE
D'IONS D'OXYGENE

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Application
EP 05715063 A 20050301

Priority
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Abstract (en)
[origin: WO2005082791A1] The invention relates to a method and to a device for the treatment of organically and/or biologically contaminated water and/or contaminated air by means of an intensive treatment of water and/or air with positive and negative oxygen ions as an oxidation agent, which are produced in an ionizer. According to the invention, said aim is achieved by means of a method, wherein; air is suctioned through a filter by means of a blower/compressor, and is swirled in a tubular-shaped ion producer and the oxygen molecules are ionised at a voltage of 2.300 V to 6.400 V and at frequencies of 25 Hz to 580 Hz with a pulse frequency of 4.000 to 16.000 Hz and the air is introduced over a wide area into the medium, which is to be prepared, through a discharge system having electrostatically charged particles and is distributed. The optimal working range is controlled by measuring the ion intensity by means of an ion measuring probe and a control system adapted thereto.

IPC 8 full level
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Citation (search report)
See references of WO 2005082791A1

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