

Title (en)

METHOD AND DEVICE FOR PRODUCTION OF WATER WITH INCREASED OXYGEN CONTENT

Title (de)

VERFAHREN UND VORRICHTUNG ZUM HERSTELLEN VON WASSER MIT ERHÖHTEM SAUERSTOFFGEHALT

Title (fr)

PROCEDE ET DISPOSITIF DE PRODUCTION D'EAU A TENEUR ACCRUE EN OXYGENE

Publication

EP 1819640 A1 20070822 (DE)

Application

EP 05811876 A 20051124

Priority

- AT 2005000474 W 20051124
- AT 20022004 A 20041129

Abstract (en)

[origin: WO2006055999A1] When oxygen is passed through an aqueous alkaline electrolyte, in which a voltage is applied across a cathode and an annular anode surrounding the same, said oxygen is activated by interaction with the active oxygen produced on electrolysis by stimulation due to the action of various energy forms which occur on passing a current through the electrolysis device (18) (in particular, sound energy and light energy). The active oxygen is stabilised in water clathrates and said moist gas mixture is brought into contact with the liquid for enrichment with oxygen in a counter-current column (1), whereby the liquid for enrichment flows down the counter-current column (1), with a silicate-containing material as packing (1a) and the activated oxygen flows up the counter-current column (1). The liquid for enrichment is optionally passed several times through the column (1) until the desired degree of enrichment with oxygen is achieved.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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