

Title (en)

ELECTRONIC FLUID TREATMENT APPARATUS AND METHOD

Title (de)

ELEKTRONISCHE FLUIDBEHANDLUNGSVORRICHTUNG UND ENTSPRECHENDES VERFAHREN

Title (fr)

APPAREIL ÉLECTRONIQUE ET PROCÉDÉ DE TRAITEMENT DE FLUIDE

Publication

**EP 2307322 A4 20140416 (EN)**

Application

**EP 09769652 A 20090626**

Priority

- IB 2009006065 W 20090626
- ZA 200806566 A 20080626

Abstract (en)

[origin: WO2009156840A2] Electronic fluid treatment apparatus is provided comprising an electrode assembly (5) mounted in a housing (9, 15) having an inlet (10, 16) and an outlet (11, 17, 18). The electrode assembly has multiple electrodes (1 ) held in parallel spaced relationship relative to each other. A power supply (8) is connected to the electrodes such that alternate electrodes are interconnected so as to be similarly energised by the power supply. The power supply is adapted to provide a pulsed voltage at an amplitude and frequency dependent on the construction of the individual electrodes, the spacing between them and the dielectric properties of the fluid in which the electrodes are to operate such that the electrodes, in use, provide a capacitive effect. Typically an inductance is connected in parallel with the electrodes so as to create a resonant circuit. The apparatus is able to provide three distinct actions against microorganisms contained in the fluid.

IPC 8 full level

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CPC (source: EP)

**B03C 3/68** (2013.01); **B03C 5/02** (2013.01); **C02F 1/46109** (2013.01); **C02F 1/4672** (2013.01); **A61L 9/16** (2013.01); **C02F 2001/46123** (2013.01); **C02F 2001/46138** (2013.01); **C02F 2103/008** (2013.01); **C02F 2201/46175** (2013.01)

Citation (search report)

- [X] WO 0189997 A2 20011129 - MEGATON SYSTEMS AS [NO], et al
- [A] US 6936151 B1 20050830 - LOCK GARY [GB], et al
- See references of WO 2009156840A2

Designated contracting state (EPC)

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