

Title (en)  
METHOD AND DEVICE FOR ELECTROCHEMICALLY DISINFECTING FLUIDS

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR ELEKTROCHEMISCHEN FLUIDDESINFEKTION

Title (fr)  
PROCEDE ET DISPOSITIF DE DESINFECTION ELECTROCHIMIQUE DE FLUIDES

Publication  
**EP 1409415 A2 20040421 (EN)**

Application  
**EP 00992643 A 20001204**

Priority  
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• US 45310699 A 19991202

Abstract (en)  
[origin: WO0142143A2] A method for treating fluids operates on a continuously flowing stream of fluid. The stream is acted upon in a continuous flow process to generate a disinfectant species (e.g., chlorine) in the stream and to simultaneously lower the pH of the stream below approximately 4.0. The stream is passed through an electrochemical cell and an electric potential difference is applied across electrodes of the cell during the passage of the stream through the cell. Relative to its flow through a channel upstream of the cell, the stream is accelerated when flowing through the cell. The stream at an outlet of the electrochemical cell is raised to a neutral pH range, thus producing a disinfected solution. This step may be implemented by passing the effluent stream between differentially charged electrodes, for example, of the same electrochemical cell. A chemical disinfecting method is also disclosed.

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**C02F 1/461**

IPC 8 full level  
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