

Title (en)

METHOD AND DEVICE FOR THE ELECTROPHYSICAL TREATMENT OF WATER

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ELEKTROPHYSIKALISCHEN WASSERBEHANDLUNG

Title (fr)

PROCEDE ET DISPOSITIF DE TRAITEMENT ELECTROPHYSIQUE DE L'EAU

Publication

EP 0951448 A1 19991027 (DE)

Application

EP 97943657 A 19971017

Priority

- AT 9700222 W 19971017
- AT 182196 A 19961017

Abstract (en)

[origin: WO9817587A1] The invention concerns a method and device for removing carbonates from drinking water or water for domestic use, wherein the water is poured into a container in which are disposed a cathode and an anode to which an electrical direct voltage is applied, carbonate being precipitated and water from which carbonates have been removed then being discharged from the container as drinking water or water for domestic use. The invention is characterized in that the container houses a diaphragm which separates a chamber containing the cathode from a chamber containing the anode, the water from which carbonates are to be removed being poured into the cathode chamber and removed therefrom. A voltage of more than 1.22 volts is applied between the cathode and the anode such that water molecules are decomposed electrolytically at the cathode to form OH<-> ions, there being formed in the cathode chamber a basic medium in which carbonate, in particular in the form of calcium carbonate (chalk) and/or magnesium carbonate, is precipitated.

IPC 1-7

C02F 1/461; **C02F 5/02**

IPC 8 full level

C02F 1/46 (2006.01); **C02F 1/00** (2006.01)

CPC (source: EP)

C02F 1/4602 (2013.01); **C02F 1/001** (2013.01); **C02F 2201/46115** (2013.01)

Citation (search report)

See references of WO 9817587A1

Designated contracting state (EPC)

AT CH DE FR GB IT LI

DOCDB simple family (publication)

WO 9817587 A1 19980430; EP 0951448 A1 19991027

DOCDB simple family (application)

AT 9700222 W 19971017; EP 97943657 A 19971017