

Title (en)

WATER-CONDUCTING ELECTRIC DEVICE AND METHOD FOR OPERATING A WATER-CONDUCTING ELECTRIC DEVICE

Title (de)

WASSERFÜHRENDES ELEKTRISCHES GERÄT UND EIN VERFAHREN ZUM BETREIBEN EINES WASSERFÜHRENDEN ELEKTRISCHEN GERÄTS

Title (fr)

DISPOSITIF ÉLECTRIQUE À CIRCULATION D'EAU ET PROCÉDÉ DE FONCTIONNEMENT D'UN DISPOSITIF ÉLECTRIQUE À CIRCULATION D'EAU

Publication

EP 4259871 A1 20231018 (DE)

Application

EP 21823526 A 20211130

Priority

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Abstract (en)

[origin: WO2022128436A1] The invention relates to a water-conducting electric device comprising a water-receiving element (1); an electrochemical cell (3) which comprises electrodes and is designed to generate a bleaching agent when the electrochemical cell contains a salt-containing solution and when a direct voltage is applied to the electrodes; a pump which is designed to convey fluid located in the electrochemical cell (3) out of the electrochemical cell (3) and into the water-receiving element (1); and a control unit (18) which is configured to selectively apply a direct voltage as well as an alternating voltage to the electrodes of the electrochemical cell (3). The invention additionally relates to a method for operating the water-conducting electric device, having the following steps: a) supplying the salt-containing solution to the electrochemical cell (3); b) applying a direct voltage to the electrodes of the electrochemical cell (3) for a specified duration following step a) in order to generate the bleaching agent in the electrochemical cell (3); c) applying an alternating voltage to the electrodes of the electrochemical cell (3) for a specified duration following step b) in order to heat fluid located in the electrochemical cell (3); and d) conveying the fluid out of the electrochemical cell (3) and into the water-receiving element (1).

IPC 8 full level

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CPC (source: EP KR)

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Citation (search report)

See references of WO 2022128436A1

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