

Title (en)

ELECTROCOAGULATION CELL WITH INTEGRATED MECHANISM OF HOMOGENEOUS ANODE CONSUMPTION

Title (de)

ELEKTROKOAGULATIONSZELLE MIT INTEGRIERTEM MECHANISMUS MIT HOMOGENEM ANODENVERBRAUCH

Title (fr)

CELLULE D'ÉLECTROCOAGULATION AVEC MÉCANISME INTÉGRÉ DE CONSOMMATION D'ANODE HOMOGENE

Publication

**EP 3802438 A1 20210414 (EN)**

Application

**EP 19733861 A 20190516**

Priority

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- GR 2019000035 W 20190516

Abstract (en)

[origin: WO2019234459A1] The present invention describes a cylindrical electrochemical cell (Figure 1) designed to treat wastewater of various compositions utilizing the electrocoagulation method. The cell incorporates and mechanically rotating spacer (Figure 1) (5) to ensure the uniform consumption of the anode plate (Figure 1) (3) and to prevent anodic and cathodic depositions. The spacer is positioned between the anode (Figure 1) (3), which is located at the bottom plate of the cell, (Figure 1) (6) and the cathode (Figure 1) (9). Its slow rotary motion is provided by a shaft (Figure 1) (9) which passes through the center of the base plate of the cell and it is shaped in a way that allows the vertical drop of both the spacer and the cathode (Figure 1) (4). This device has the advantage of operating under conditions of steady voltage and with constant power consumption. In addition, the electrocoagulation cell has the ability to operate at pressures of 1 to 10 bar.

IPC 8 full level

**C02F 1/463** (2006.01); **C02F 1/461** (2006.01)

CPC (source: EP GR KR)

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Citation (search report)

See references of WO 2019234459A1

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