

Title (en)  
ELECTROLYSIS DEVICE

Title (de)  
ELEKTROLYSEVORRICHTUNG

Title (fr)  
DISPOSITIF D'ÉLECTROLYSE

Publication  
**EP 3688206 B1 20210804 (DE)**

Application  
**EP 18786231 A 20180927**

Priority  
• DE 102017217361 A 20170929  
• EP 2018076205 W 20180927

Abstract (en)  
[origin: WO2019063659A1] The present invention relates to an electrolysis device for the electrolytic treatment of liquids, with an anode chamber and a cathode chamber, which are separated from one another by way of an ion-exchange membrane, wherein the chambers are provided with an inlet opening and an outlet opening for the flowing electrolyte and each with an electrode and wherein the inner space of the anode chamber and/or of the cathode chamber is subdivided by webs (20) or ribs extending transversely with respect to the electrodes, wherein the webs or ribs are provided at least in certain regions with holes (24) or cutouts, in which according to the invention the webs (20) or ribs have at least a lower region (22) in which no holes (24) or cutouts are provided. The electrolysis device according to the invention has the advantage that on the one hand there is in the upper foam phase sufficient mixing in the longitudinal direction, but at the same time in the lower region the airlift pump effect obtained by the rising gas bubbles is maintained.

IPC 8 full level  
**C25B 1/46** (2006.01); **C25B 9/19** (2021.01); **C25B 9/23** (2021.01)

CPC (source: EA EP KR US)  
**C25B 1/46** (2013.01 - EA EP KR US); **C25B 9/19** (2021.01 - EA EP US); **C25B 9/23** (2021.01 - KR); **C25B 9/60** (2021.01 - KR US); **C25B 15/08** (2013.01 - KR)

Cited by  
EP4375556A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2019063659 A1 20190404**; CA 3074795 A1 20190404; CA 3074795 C 20211026; CN 111279017 A 20200612; CN 111279017 B 20220415; DE 102017217361 A1 20190404; EA 038689 B1 20211005; EA 202090574 A1 20200527; EP 3688206 A1 20200805; EP 3688206 B1 20210804; JP 2020535314 A 20201203; JP 7055864 B2 20220418; KR 102376799 B1 20220318; KR 20200080230 A 20200706; TW 201920772 A 20190601; TW I686511 B 20200301; US 11608561 B2 20230321; US 2020283919 A1 20200910; US 2023220563 A1 20230713

DOCDB simple family (application)  
**EP 2018076205 W 20180927**; CA 3074795 A 20180927; CN 201880063493 A 20180927; DE 102017217361 A 20170929; EA 202090574 A 20180927; EP 18786231 A 20180927; JP 2020517484 A 20180927; KR 20207009817 A 20180927; TW 107132990 A 20180919; US 201816645009 A 20180927; US 202318183838 A 20230314