

Title (en)
OZONE GENERATING ELECTROLYSIS CELL

Title (de)
OZONERZEUGENDE ELEKTROLYSEZELLE

Title (fr)
CELLULE D'ÉLECTROLYSE PRODUISANT DE L'OZONE

Publication
EP 1979509 A2 20081015 (EN)

Application
EP 06831525 A 20061222

Priority

- HU 2006000126 W 20061222
- HU P0501204 A 20051223

Abstract (en)
[origin: US2008314740A1] The ozone generating electrolysis cell (10) according to the invention has a negative electrode (13) and an ozone generating positive electrode (16) comprising a mixture of lead dioxide and polytetrafluoroethylene (PTFE). A proton conducting solid electrolytic membrane (15) is arranged between the negative and positive electrodes (13, 16). The ozone generating electrolysis cell (10) also comprises an electrically conducting, liquid and gas permeable first electrode support (17) in contact with a side of the positive electrode (16) located opposite to the membrane (15), wherein said side of the electrode support (17) has a surface covered with a platinum-containing layer. The positive electrode (16) is made of a mixture prepared by the high-pressure compression of lead dioxide grains of colloid size and PTFE filaments having a dimension of at most 1 mm. Furthermore, the negative electrode (13) is adjoined to a side of the membrane (15) located opposite to the positive electrode (16) by a given compressing force and is formed on a surface of a porous second electrode support (12).

IPC 8 full level
C25B 1/13 (2006.01); **C25B 9/19** (2021.01)

CPC (source: EP US)
C25B 1/13 (2013.01 - EP US); **C25B 9/19** (2021.01 - EP US); **C25B 11/04** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
BA HR RS

DOCDB simple family (publication)
US 2008314740 A1 20081225; AU 2006327902 A1 20070628; CN 101360848 A 20090204; EP 1979509 A2 20081015;
HU 0501204 D0 20060228; HU P0501204 A2 20070730; IL 192391 A0 20090803; JP 2009520881 A 20090528; NO 20083195 L 20080911;
RU 2008129184 A 20100127; WO 2007072098 A2 20070628; WO 2007072098 A3 20071213

DOCDB simple family (application)
US 15890906 A 20061222; AU 2006327902 A 20061222; CN 200680051679 A 20061222; EP 06831525 A 20061222;
HU 2006000126 W 20061222; HU P0501204 A 20051223; IL 19239108 A 20080623; JP 2008546654 A 20061222; NO 20083195 A 20080717;
RU 2008129184 A 20061222