



(11) **EP 3 440 237 B8**

(12) **CORRECTED EUROPEAN PATENT SPECIFICATION**

(15) Correction information:
Corrected version no 1 (W1 B1)
Corrections, see
Bibliography INID code(s) 72

(51) Int Cl.:
C25B 1/04 ^(2021.01) **C25B 9/23** ^(2021.01)
C25B 9/73 ^(2021.01) **C25B 11/095** ^(2021.01)
C25B 13/08 ^(2006.01) **C08J 5/22** ^(2006.01)

(48) Corrigendum issued on:
03.11.2021 Bulletin 2021/44

(86) International application number:
PCT/US2017/025626

(45) Date of publication and mention
of the grant of the patent:
08.09.2021 Bulletin 2021/36

(87) International publication number:
WO 2017/176598 (12.10.2017 Gazette 2017/41)

(21) Application number: **17723165.1**

(22) Date of filing: **31.03.2017**

(54) **WATER ELECTROLYZERS**
WASSERELEKTROLYSEURE
ÉLECTROLYSEURS D'EAU

(84) Designated Contracting States:
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

(30) Priority: **04.04.2016 US 201615090477**
06.01.2017 US 201715400775
16.01.2017 US 201715406909

(43) Date of publication of application:
13.02.2019 Bulletin 2019/07

(73) Proprietor: **Dioxide Materials, Inc.**
Boca Raton, Florida 33431 (US)

(72) Inventors:
• **MASEL, Richard I.**
Boca Raton
Florida 33496 (US)
• **LIU, Zengcai**
Boca Raton
Florida 33486 (US)

(74) Representative: **Beyer, Andreas**
Wuesthoff & Wuesthoff
Patentanwälte PartG mbB
Schweigerstrasse 2
81541 München (DE)

(56) References cited:
WO-A1-2016/064440 WO-A1-2016/064447
JP-A- H02 166 128

- **BENCAI LIN ET AL: "Alkaline Stable C2-Substituted Imidazolium-Based Anion-Exchange Membranes", CHEMISTRY OF MATERIALS, vol. 25, no. 9, 14 May 2013 (2013-05-14), pages 1858-1867, XP055189117, ISSN: 0897-4756, DOI: 10.1021/cm400468u**
- **WEI LI ET AL: "Novel anion exchange membranes based on polymerizable imidazolium salt for alkaline fuel cell applications", JOURNAL OF MATERIALS CHEMISTRY, vol. 21, no. 30, 1 January 2011 (2011-01-01), page 11340, XP055189111, ISSN: 0959-9428, DOI: 10.1039/c1jm11093d**

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

EP 3 440 237 B8