

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
02 August 2024 (02.08.2024)



(10) International Publication Number
WO 2024/157159 A1

(51) International Patent Classification:
C25B 1/00 (2021.01) B22F 3/10 (2006.01)
C25B 9/00 (2021.01)

(21) International Application Number:
PCT/IB2024/050610

(22) International Filing Date:
23 January 2024 (23.01.2024)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/440,690 23 January 2023 (23.01.2023) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO,

RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(54) Title: ELECTROLYSER SYSTEM AND METHOD OF ELECTRODE MANUFACTURE

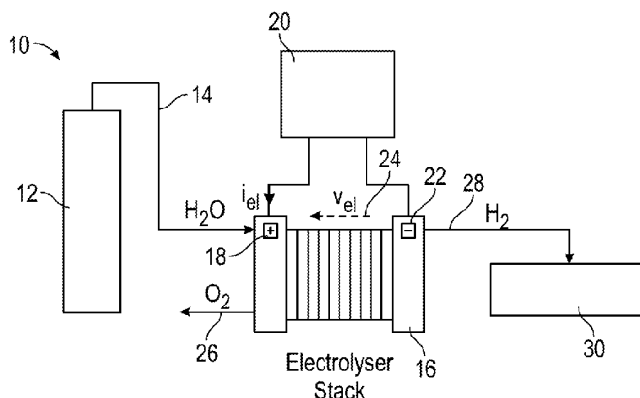


FIG. 1

(57) Abstract: An electrolyser system and method of electrode manufacture. The electrolyser system may comprise a first vessel in communication with an electrolyser stack, a power supply, an electrode, a separator, a membrane, and a second vessel in communication with the electrolyser stack. The electrode may comprise a catalytic material and a micro-porous and/or nano-porous structure. The method of electrode manufacture may comprise providing a substrate, contacting the substrate with an acidic solution, applying an electric current to the substrate, simultaneously depositing a main material and supporting material comprising a scarifying material onto the substrate, and leaching the scarifying material.



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