

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
06 March 2025 (06.03.2025)



(10) International Publication Number
WO 2025/043281 A1

(51) International Patent Classification:

C25B 9/65 (2021.01) C25B 15/00 (2006.01)
C02F 1/04 (2023.01) F01K 23/10 (2006.01)
C25B 1/04 (2021.01) F01K 25/10 (2006.01)
C25B 1/23 (2021.01) F02G 5/02 (2006.01)
C25B 11/077 (2021.01) F27D 17/00 (2025.01)

(21) International Application Number:

PCT/AU2024/050910

(22) International Filing Date:

27 August 2024 (27.08.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2023902821 01 September 2023 (01.09.2023) AU

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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,

(54) Title: AN ELECTROLYSER SYSTEM AND METHOD FOR OPERATING AN ELECTROLYSER SYSTEM

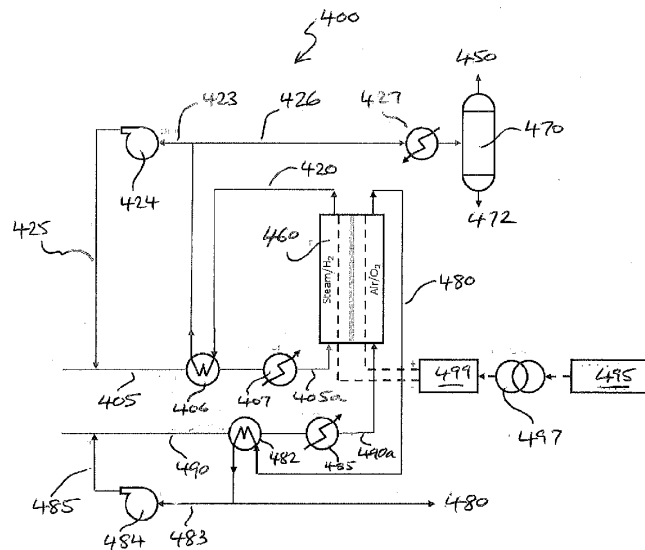


Figure 3

(57) Abstract: An electrolyser system (400) comprises at least one electrolyser (460) and has an operating energy requirement generated by an energy source (27). The energy source (27) includes waste heat generated by an industrial process whether involving combustion or an exothermic chemical reaction. The electrolyser system (400) further comprises a waste heat to power system (70) for recovering heat from the industrial process to produce electricity for supply to the at least one electrolyser (460); and a heat exchange system (407) for recovering heat from the industrial process and enabling transfer of said recovered heat to the at least one electrolyser (460) as thermal energy. The electrolyser system (400) has substantially higher energy efficiency and lower cost than an electrolyser system operated using an intermittent renewable energy source.

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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))
- in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE