

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
02 February 2023 (02.02.2023)



(10) International Publication Number
WO 2023/006460 A1

(51) International Patent Classification:
C25B 1/02 (2006.01) *H02J 3/28* (2006.01)
G05F 1/10 (2006.01)

(21) International Application Number:
PCT/EP2022/069947

(22) International Filing Date:
15 July 2022 (15.07.2022)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
21188851.6 30 July 2021 (30.07.2021) EP

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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, ME, MG, MK, MN, MW, MX, MY, MZ, NA,
NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO,

(54) Title: ELECTROLYZER PLANT COMPRISING A PLURALITY OF ELECTROLYZER MODULES AND A SYSTEM FOR CONTROLLING OPERATION OF THE ELECTROLYZER PLANT

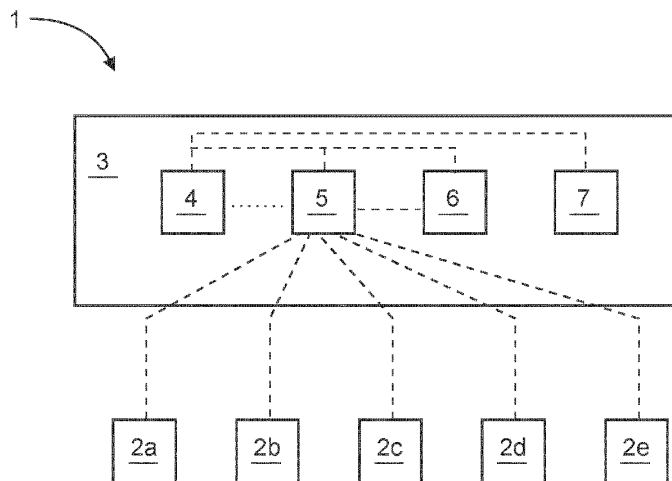


Fig. 1

(57) Abstract: The invention provides an electrolyzer plant comprising a plurality of electrolyzer modules and a method for controlling operation of said electrolyzer plant. The electrolyzer plant comprises a system comprising a processing unit and configured to determine, for each of the plurality of electrolyzer modules, an electrolyzer module set point at which the electrolyzer module is to be operated, and control operation of each of the plurality of electrolyzer modules at the respective electrolyzer module set point. The determining comprises inputting data representative of operation characteristics of each of the plurality of electrolyzer modules into the processing unit and the processing unit performing an optimization procedure that outputs the electrolyzer module set points, the optimization procedure comprising an optimization for one or more of overall electrolyzer plant efficiency, overall plant lifetime, lifetime of each of the electrolyzer modules, operational safety, and maintenance patterns.

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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, GH, GM, KE, LR, LS, MW, MZ, NA, RW, 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, 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).

Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

Published:

— *with international search report (Art. 21(3))*