

(43) International Publication Date
23 June 2022 (23.06.2022)



(10) International Publication Number
WO 2022/127902 A1

(51) International Patent Classification:
C25B 1/01 (2021.01) *C25B 15/023* (2021.01)
C25B 11/02 (2021.01) *C25B 15/08* (2006.01)

(21) International Application Number: PCT/CN2021/139117

(22) **International Filing Date:**
17 December 2021 (17.12.2021)

(25) **Filing Language:** English

(26) **Publication Language:** English

(30) Priority Data:		
202011502839.7	18 December 2020 (18.12.2020)	CN
202011502846.7	18 December 2020 (18.12.2020)	CN
202011502862.6	18 December 2020 (18.12.2020)	CN
202011508948.X	18 December 2020 (18.12.2020)	CN
202023064800.X	18 December 2020 (18.12.2020)	CN

20202306484.7.6	18 December 2020 (18.12.2020)	CN
202023064866.9	18 December 2020 (18.12.2020)	CN
202023072485.5	18 December 2020 (18.12.2020)	CN
202023072503.X	18 December 2020 (18.12.2020)	CN
202110183873.0	08 February 2021 (08.02.2021)	CN
202120353644.4	08 February 2021 (08.02.2021)	CN
202120353650.X	08 February 2021 (08.02.2021)	CN

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(54) **Title:** APPARATUSES, SYSTEMS, AND METHODS FOR GENERATING NITRIC OXIDE

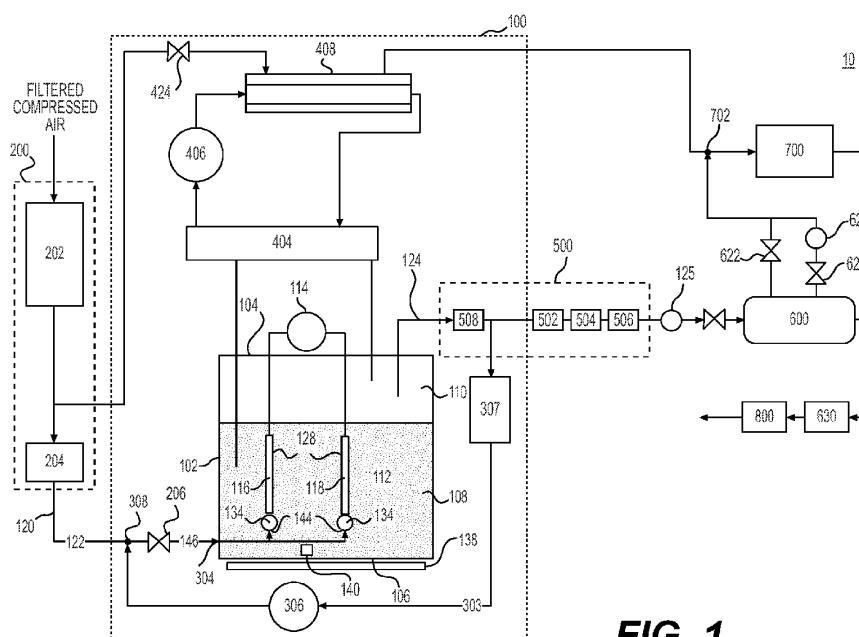


FIG. 1

(57) **Abstract:** Embodiments of nitric oxide (NO) generation apparatuses, systems, and methods are provided. In some embodiments, an NO generation apparatus may include a reaction chamber having a liquid region and a gas region. The liquid region may be configured to contain a reaction medium and the gas region may be configured to contain a product gas comprising NO. The NO generation apparatus may also include a plurality of electrodes disposed in the reaction medium, and may include an energy source electrically connected to the plurality of electrodes and configured to apply a predetermined voltage or a predetermined current to at least one of the plurality of electrodes to generate NO. The NO generation apparatus may also include an inlet circuit configured to receive a carrier gas, and may include at least one sparger in fluid communication with the inlet circuit and configured to emanate bubbles of the carrier gas in the reaction medium.

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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, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, 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, 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).

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))