



(51) International Patent Classification:
Not classified

(21) International Application Number: PCT/SG2022/050743

(22) **International Filing Date:** 19 October 2022 (19.10.2022)

(25) **Filing Language:** English

(26) **Publication Language:** English

(30) **Priority Data:**
10202111588T 19 October 2021 (19.10.2021) SG

(71) **Applicant:** **NANYANG TECHNOLOGICAL UNIVERSITY** [SG/SG]; 50 Nanyang Avenue, Singapore 639798 (SG).

(72) **Inventors: SHE, Qianhong:** c/o Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798 (SG).
MO, Zijiang: c/o Nanyang Technological University, 50 Nanyang Avenue, Singapore 639798 (SG).

(74) **Agent: CHINA SINDA INTELLECTUAL PROPERTY PTE. LTD.**; 133 Cecil Street, #12-01a, Keck Seng Tower, Singapore 069535 (SG).

(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, 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, 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,

(54) Title: APPARATUS AND METHOD OF SEMI-CLOSED REVERSE OSMOSIS

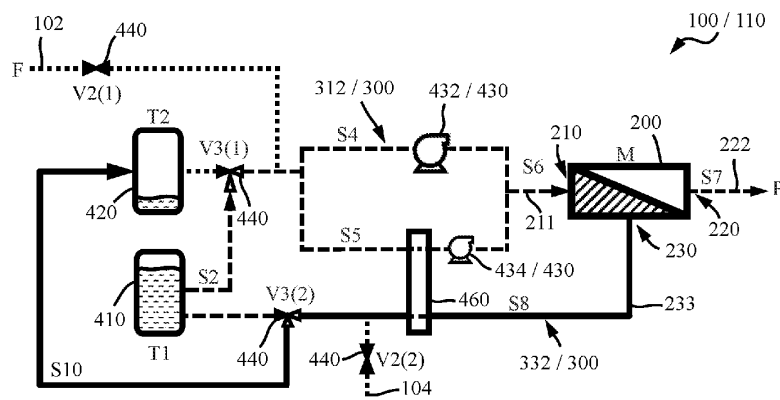


FIG. 1

(57) **Abstract:** A system comprising: a reverse osmosis (RO) membrane module having an inlet, a permeate outlet, and a concentrate outlet, the RO membrane module being operable to separate a feed into a RO permeate and a RO concentrate, the RO concentrate being delivered out of the RO membrane module via the concentrate outlet; a first tank; and a fluid circuit, the fluid circuit coupling the RO membrane module and the first tank, the fluid circuit being configured to provide a flow path including: a first feed flow path directing the feed to the inlet; a first concentrate flow path directing the RO concentrate from the concentrate outlet to the first tank; and a second feed flow path directing the feed from the first tank to the inlet, wherein the first feed flow path and the second feed flow path are configured to receive the feed from different sources.

[Continued on next page]

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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,
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