

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
26 January 2023 (26.01.2023)



(10) International Publication Number
WO 2023/003513 A2

- (51) **International Patent Classification:**
Not classified
- (21) **International Application Number:**
PCT/SG2022/050514
- (22) **International Filing Date:**
20 July 2022 (20.07.2022)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
10202107985P 22 July 2021 (22.07.2021) SG
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(54) **Title:** FLOW REACTOR SYSTEM AND FLOW REACTION METHOD

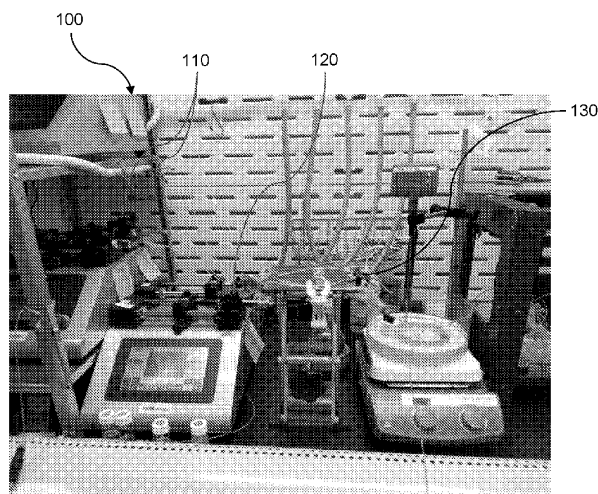


Figure 1

(57) **Abstract:** The present disclosure generally relates to a flow reactor system (100) and a flow reaction method (200). The flow reactor system (100) comprises liquid pumps (110) for communicating liquid reagents based on a set of flow conditions, a fluid pump (200) for communicating a carrier fluid that is immiscible with the liquid reagents; a fluidic mixer (130) for mixing the liquid reagents into a liquid mixture, a measurement device (150) for measuring properties of liquid plugs (140) discharged from an outlet (136) of the fluidic mixer (130); and a control module configured for controlling the liquid pumps (110) and adjusting the flow conditions based on the measured properties of the liquid plugs (140), wherein the liquid plugs (140) are representative of different flow conditions.

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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, 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).

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