

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

(19) World Intellectual Property  
Organization  
International Bureau

(43) International Publication Date  
03 August 2023 (03.08.2023)



(10) International Publication Number  
**WO 2023/144520 A1**

(51) International Patent Classification:

C10G 1/00 (2006.01) C10G 31/06 (2006.01)

C10G 1/10 (2006.01) C10G 53/02 (2006.01)

(21) International Application Number:

PCT/GB2023/050147

(22) International Filing Date:

24 January 2023 (24.01.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2201005.2 26 January 2022 (26.01.2022) GB

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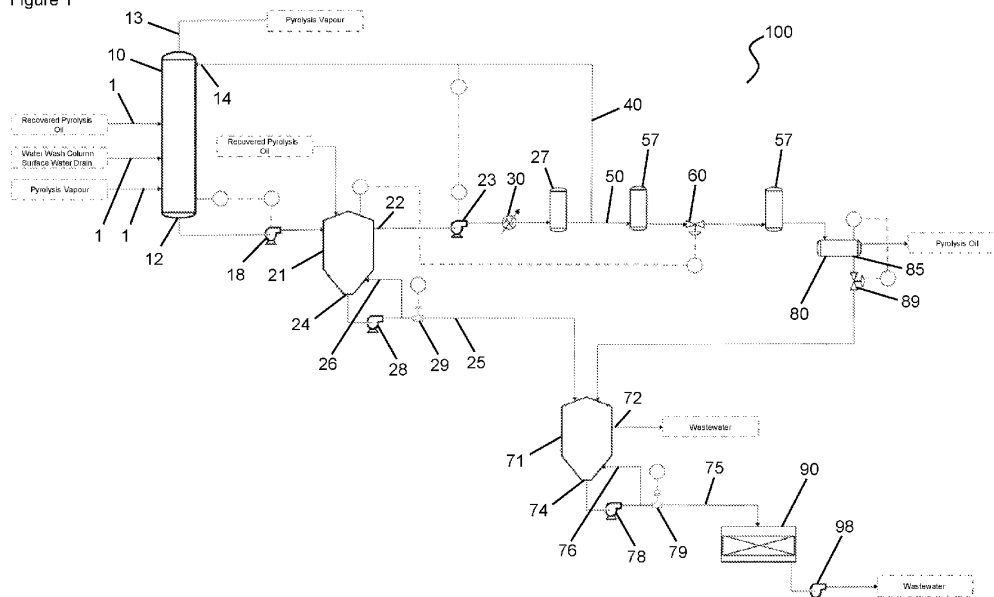
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(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,  
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,  
CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM,  
DO, DZ, EC, EE, 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, MW, MX, MY, MZ, NA, NG,

(54) Title: SYSTEM AND METHOD FOR REMOVING CONTAMINANTS FROM A PYROLYSIS FLUID

Figure 1



(57) Abstract: A system for removing contaminants from a pyrolysis fluid is provided. The system comprises a recirculation loop; and a bleed off line. The recirculation loop comprises a quenching vessel; separation apparatus; a recirculation line; and cooling apparatus. The quenching vessel has: a first inlet for receiving a supply of pyrolysis fluid; a second inlet arranged to receive a recirculated fluid; and an outlet for expelling quenched pyrolysis fluid. The separation apparatus is for removing contaminants from the quenched pyrolysis fluid to provide a clarified flow, the separation apparatus arranged to receive quenched pyrolysis fluid from the outlet. The recirculation line is arranged to receive at least a recirculation portion of the clarified flow and recirculate the recirculation portion to the second inlet. The cooling apparatus is arranged to cool fluid in the recirculation loop. The bleed-off line is for selectively bleeding-off a bleed-off portion of the clarified flow from the recirculation loop.

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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, 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))

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