



(51) International Patent Classification:
G06Q 10/0875 (2023.01)

(21) International Application Number:
PCT/US2024/020853

(22) International Filing Date:
21 March 2024 (21.03.2024)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/454,232 23 March 2023 (23.03.2023) US

(71) Applicant: **THE CHEMOURS COMPANY FC, LLC**
[US/US]; 1007 Market Street, Wilmington, Delaware
19801 (US).

(72) Inventors: **PENG, Sheng**; 549 Cabot Drive, Hockessin,
Delaware 19707 (US). **ALLGOOD, Charles Clinton**; 8
East Lane, Elkton, Maryland 21921 (US). **STASIO, Anthony F.**; 411 Darwin Drive, Newark, Delaware 19711 (US).
SUN-BLANKS, Jian; 1184 Guntersville Road, Arab, Al-

abama 35016 (US). **DIXON, Natalie Anne**; 105 North Rd,
Wilmington, Delaware 19809 (US). **BACHMAN, James
Edward**; 1108 S. Main Street, Greenville, South Carolina
29601 (US).

(74) Agent: **SHAH-CREAMER, Bijal**; 1007 Market Street,
Patent Legal Group, Wilmington, Delaware 19801 (US).

(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, MU, 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,

(54) Title: SYSTEMS AND METHODS OF RECLAMATION OF THERMAL MANAGEMENT FLUIDS

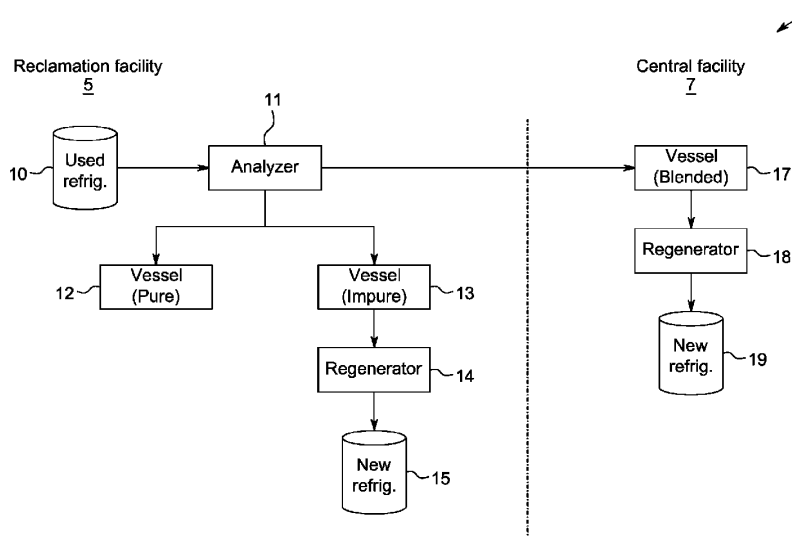


FIG. 1

(57) Abstract: Example embodiments disclose a method of managing refrigerant reclamation including returning used refrigerant to a facility for reclamation, analyzing, via an analyzer unit, composition of the used refrigerant, determining, via the analyzer unit, purity of the used refrigerant, generating an analysis report based on the composition of the used refrigerant, determining weight of the used refrigerant based on the purity of used refrigerant, and generating a deposit credit to be used on-site or remotely.

[Continued on next page]

GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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))*
- *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))*