

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
20 August 2020 (20.08.2020)



(10) International Publication Number
WO 2020/168062 A1

(51) International Patent Classification:

C10G 9/36 (2006.01) B01J 8/00 (2006.01)
C10G 31/10 (2006.01) B01D 45/12 (2006.01)
B01D 17/02 (2006.01) B04C 5/20 (2006.01)
C10G 9/16 (2006.01)

(21) International Application Number:

PCT/US2020/018092

(22) International Filing Date:

13 February 2020 (13.02.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/806,274 15 February 2019 (15.02.2019) US
19179668.9 12 June 2019 (12.06.2019) EP

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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, 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).

(54) Title: COKE AND TAR REMOVAL FROM A FURNACE EFFLUENT

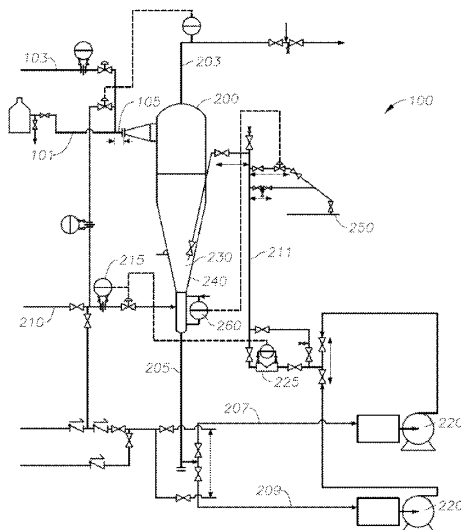


FIG. 1

(57) Abstract: In some examples, coke, tar, or a mixture thereof can be removed from a furnace effluent. The furnace effluent can include coke, tar, or the mixture thereof and can be contacted with a first quench liquid to produce a quenched mixture, wherein the first quench liquid can include a first steam cracker naphtha, a first steam cracker gas oil, a first steam cracker quench oil, or a mixture thereof. The quenched mixture can be introduced into a first inlet of a centrifugal separator drum. A vapor product and a centrifugal separator drum bottoms can be separated from the quenched mixture, wherein the centrifugal separator drum bottoms can include at least a portion of the coke, tar, or the mixture thereof. The centrifugal separator drum bottoms can be recovered from a first outlet of the centrifugal separator drum.

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Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

- *with international search report (Art. 21(3))*