



(51) International Patent Classification:

C01B 3/38 (2006.01) F01K 13/00 (2006.01)
F01K 11/02 (2006.01) F02C 3/04 (2006.01)

(21) International Application Number:

PCT/US2022/075254

(22) International Filing Date:

22 August 2022 (22.08.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

17/483,960 24 September 2021 (24.09.2021) US

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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,

(54) Title: HYDROCARBON REFORMING PROCESSES WITH SHAFT POWER PRODUCTION

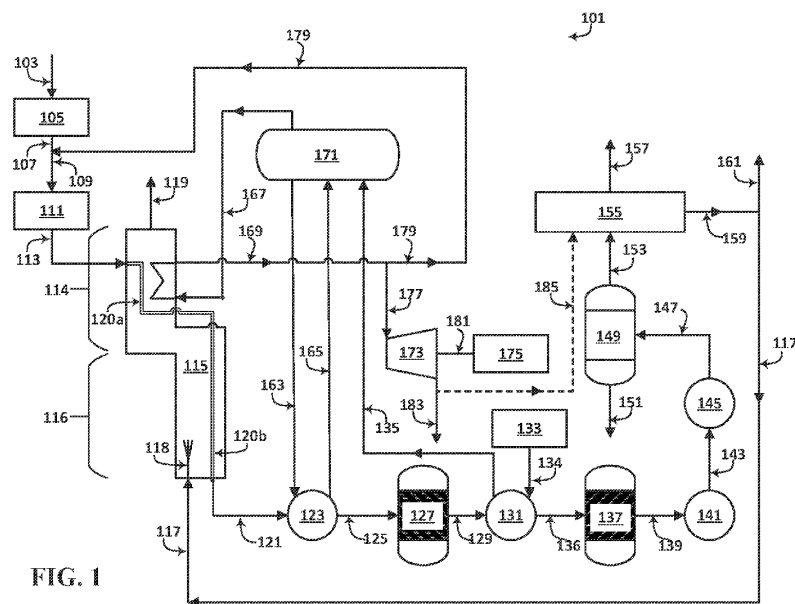


FIG. 1

(57) Abstract: A high-pressure steam stream produced from the waste heat recover}' system of a syngas producing unit may be superheated and then supplied to a steam turbine in a hydrocarbon production plant to produce an expanded steam stream and shaft power. A portion of the expanded stream can be fed into the reforming reactor in the syngas producing unit. The shaft power can be used to drive compressors and pumps in an olefins production plant. Considerable energy efficiency and capital investment savings can be realized by such steam integration compared to running the olefins production plant separately.

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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).

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))*