

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
14 April 2022 (14.04.2022)



(10) International Publication Number
WO 2022/074475 A1

(51) International Patent Classification:
F23G 7/08 (2006.01)

(21) International Application Number:
PCT/IB2021/057760

(22) International Filing Date:
24 August 2021 (24.08.2021)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
17/066,494 09 October 2020 (09.10.2020) US

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US 17/066,494 (CIP)
Filed on 09 October 2020 (09.10.2020)

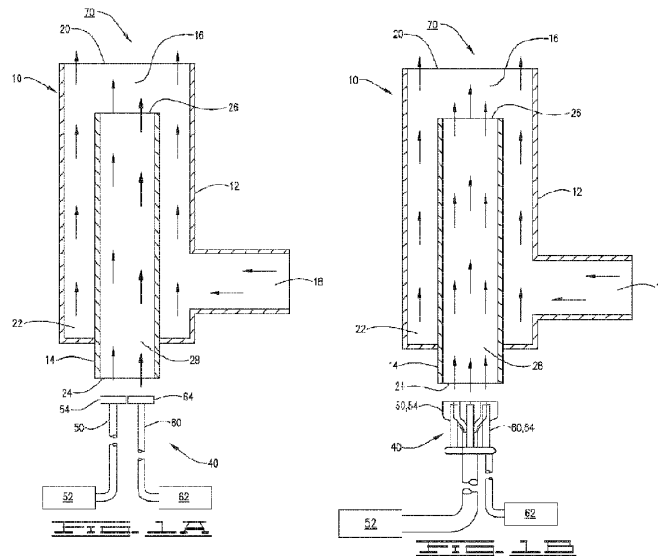
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD,

(54) Title: STAGED GAS INJECTION SYSTEM



(57) Abstract: A staged gas injection system for a flare tip that can discharge waste gas into a combustion zone is provided. The staged gas injection system includes, for example, a first gas injection assembly and a second stage gas injection assembly. The first gas injection assembly is configured to inject a gas (for example steam or a gas other than steam) at a high flow rate and a high pressure into the flare tip or the combustion zone. The second gas injection assembly is configured to inject a gas (for example, steam and/or a gas other than steam) at a low flow rate and a high pressure into the flare tip or the combustion zone. A flare tip including the staged gas injection system is also provided.

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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).

Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

Published:

— *with international search report (Art. 21(3))*
— *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*