

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
25 March 2021 (25.03.2021)



(10) International Publication Number
WO 2021/053602 A1

(51) International Patent Classification:
B22D 1/00 (2006.01)

(21) International Application Number:
PCT/IB2020/058714

(22) International Filing Date:
18 September 2020 (18.09.2020)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2019/06187 19 September 2019 (19.09.2019) ZA

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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,
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))
- of inventorship (Rule 4.17(iv))

(54) Title: FURNACE, FLUID FEED COMPONENT, FLUID REFORMING SYSTEM AND METHOD OF REFORMING A FLUID

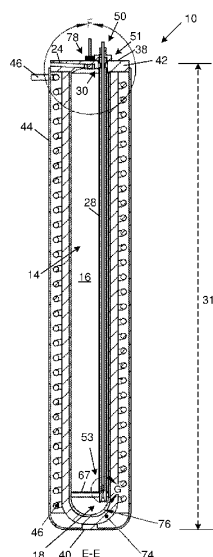


Figure 2

(57) Abstract: There is disclosed a furnace (10), a fluid feed component, a fluid reforming system, and a method of reforming a fluid (20). The furnace (10) comprises a vessel (12) that defines a chamber (14) for holding a body of liquid (16). A fluid inlet (18) is provided for introducing a fluid (20) into the chamber (14) below a level (22) of the body of liquid (16) to cause the fluid (20) to interact with the liquid (16) and to migrate therethrough towards an outlet (24) for discharging a product (26) of the interaction from the chamber (14). A liquid circulation passage (28) is implemented, having a weir (30) which is operatively located near the level of the body of liquid (16), and a port (34) which is located remote from the weir (30) and in fluid (20) communication with the fluid inlet (18) so as to enable the liquid (16) to flow over the weir (30) through the liquid circulation passage (28) and through the port (34).

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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