

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
31 August 2023 (31.08.2023)



(10) International Publication Number
WO 2023/161339 A1

(51) International Patent Classification:

C01B 3/04 (2006.01) C25B 1/04 (2021.01)
C01B 3/38 (2006.01) F02C 3/22 (2006.01)
C01B 3/36 (2006.01)

(21) International Application Number:

PCT/EP2023/054553

(22) International Filing Date:

23 February 2023 (23.02.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

22290008.6 23 February 2022 (23.02.2022) 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, 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, 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,
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))

(54) Title: COMBUSTION PROCESS USING A HYDROGEN-NITROGEN MIXTURE AS FUEL GAS

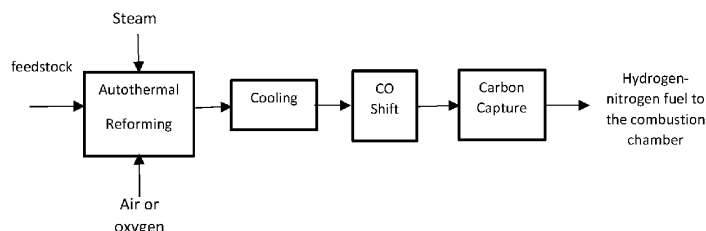


Figure 2

(57) Abstract: Combustion process, comprising: a) a production step of a binary fuel gas consisting of hydrogen and at least of between 5 and 50 vol% of nitrogen, preferably between 15 and 35 vol% nitrogen, and b) a combustion step using as only fuel gas the binary fuel gas at a combustion chamber able to receive as fuel gas the binary fuel gas, wherein the combustion chamber is selected from the group of furnaces and fired process heaters.