

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau



(10) International Publication Number
WO 2019/026044 A8

(43) International Publication Date
07 February 2019 (07.02.2019)

(51) International Patent Classification:
C07C 273/04 (2006.01)

(21) International Application Number:
PCT/IB2018/055861

(22) International Filing Date:
03 August 2018 (03.08.2018)

(25) Filing Language: Italian

(26) Publication Language: English

(30) Priority Data:
102017000090748 04 August 2017 (04.08.2017) IT

(71) Applicant: SAIPEM S.P.A. [IT/IT]; Via Martiri di Cefalonia, 67, 20097 San Donato Milanese (MI) (IT).

(72) Inventors: ZAMBIANCO, Andrea; c/o Saipem S.p.A. Via Martiri Di Cefalonia, 67, 20097 San Donato Milanese (MI) (IT). MONTRONE, Donato; c/o Saipem S.p.A. Via Martiri Di Cefalonia, 67, 20097 San Donato Milanese (MI) (IT). POLIZZI, Rossella; c/o Saipem S.p.A. Via Martiri Di Cefalonia, 67, 20097 San Donato Milanese (MI)

(IT). SALA, Massimiliano; c/o Saipem S.p.A. Via Martiri Di Cefalonia, 67, 20097 San Donato Milanese (MI) (IT). USAI, Gioia; c/o Saipem S.p.A. Via Martiri Di Cefalonia, 67, 20097 San Donato Milanese (MI) (IT).

(74) Agent: CERNUZZI, Daniele et al.; Studio Torta S.p.A., Via Viotti, 9, 10121 Torino (IT).

(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, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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,

(54) Title: A UREA PRODUCTION PROCESS AND PRODUCTION PLANT USING CO2 PRODUCED BY OXY-COMBUSTION

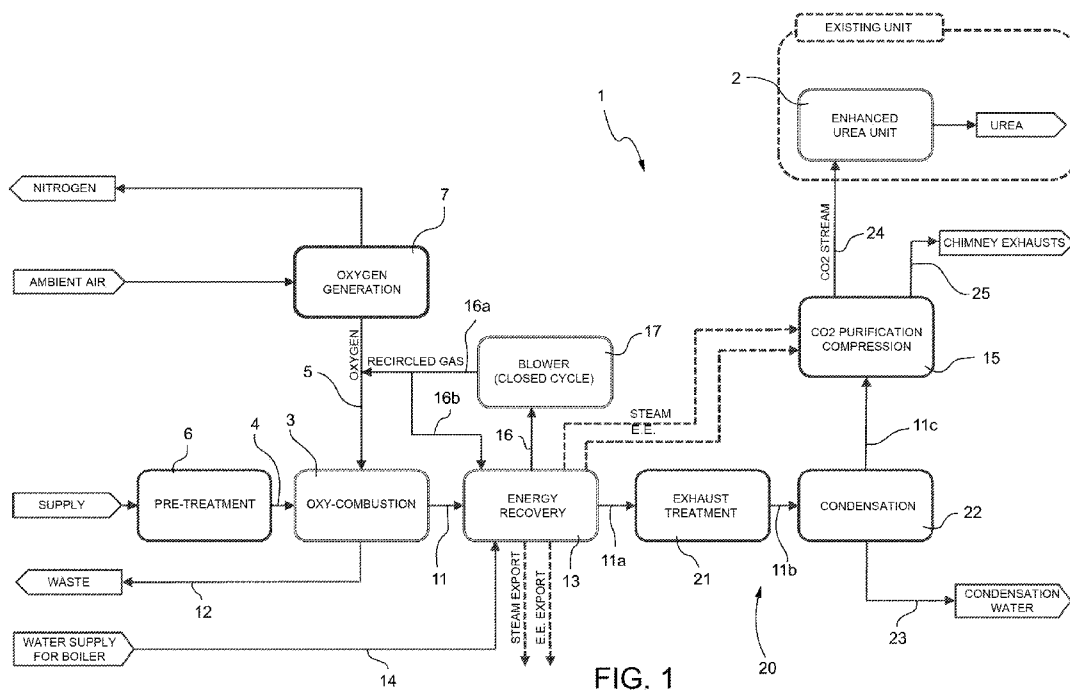


FIG. 1

(57) Abstract: A urea production process comprises a step of synthesis of urea by reaction of ammonia and carbon dioxide, where at least part of the carbon dioxide for the urea reaction synthesis is produced in an oxy-combustion process; the oxy-combustion process is specifically a flameless oxy-combustion process.

WO 2019/026044 A8

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).

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*

(48) Date of publication of this corrected version:

23 May 2019 (23.05.2019)

(15) Information about Correction:

see Notice of 23 May 2019 (23.05.2019)