

(12) International Application Status Report

Received at International Bureau: 05 December 2019 (05.12.2019)

Information valid as of: 03 July 2020 (03.07.2020)

Report generated on: 18 September 2020 (18.09.2020)

(10) Publication number:

WO2020/113264

(43) Publication date:

11 June 2020 (11.06.2020)

(26) Publication language:

English (EN)

(21) Application Number:

PCT/AU2019/051319

(22) Filing Date:

04 December 2019 (04.12.2019)

(25) Filing language:

English (EN)

(31) Priority number(s):

2018904622 (AU)

(31) Priority date(s):

05 December 2018 (05.12.2018)

(31) Priority status:

Priority document received (in compliance with PCT Rule 17.1)

2019900257 (AU)

29 January 2019 (29.01.2019)

Priority document received (in compliance with PCT Rule 17.1)

(51) International Patent Classification:

C22B 3/02 (2006.01); **C22B 3/04** (2006.01); **B01J 3/02** (2006.01); **B01J 3/04** (2006.01); **B01J 8/08** (2006.01); **B01D 11/00** (2006.01)

(71) Applicant(s):

CLEGG, Robert, Louis [AU/GB]; 45 Devon Grove Ossett WF5 8QY (GB) *(for all designated states)*

(72) Inventor(s):

CLEGG, Robert, Louis; 45 Devon Grove Ossett WF5 8QY (GB)

(74) Agent(s):

GRIFFITH HACK; Level 10, 161 Collins Street Melbourne, VIC 3000 (AU)

(54) Title (EN): METHOD AND APPARATUS FOR MINERAL PROCESSING

(54) Title (FR): PROCÉDÉ ET APPAREIL POUR TRAITEMENT MINÉRAL

(57) Abstract:

(EN): A chemical processing apparatus (10) comprising: at least one vessel (10) comprising: an inlet (12) for a liquid process stream; an outlet pipe (14A) for a liquid process stream to exit the vessel (10); and a zone (16) at least partially occupied by a gas. The zone (16) communicates with the outlet liquid process stream pipe (14A) for removing accumulating gas from the zone (16) to the outlet liquid process stream. Chemical processes, such as oxidation processes, using the apparatus (10) are disclosed.

(FR): Un appareil de traitement chimique (10) comprend : au moins un récipient (10) comprenant : une entrée (12) pour un courant de traitement liquide; un tuyau de sortie (14A) pour un courant de traitement liquide pour sortir du récipient (10); et une zone (16) occupée au moins partiellement par un gaz. La zone (16) communique avec le tuyau de courant de traitement de liquide de sortie (14A) pour éliminer le gaz d'accumulation de la zone (16) au courant de traitement de liquide de sortie. L'invention concerne également des procédés chimiques, tels que des procédés d'oxydation, à l'aide de l'appareil (10).

International search report:

Received at International Bureau: 27 February 2020 (27.02.2020) [AU]

International Report on Patentability (IPRP) Chapter II of the PCT:

Not available

(81) Designated States:

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

European Patent Office (EPO) : 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

African Intellectual Property Organization (OAPI) : BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG

African Regional Intellectual Property Organization (ARIPO) : BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW

Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, RU, TJ, TM