

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
04 February 2021 (04.02.2021)



(10) International Publication Number
WO 2021/018717 A1

(51) International Patent Classification:
C07F 9/53 (2006.01) C07C 51/48 (2006.01)
C07C 29/86 (2006.01)

TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, ML, MR, NE, SN, TD, TG).

(21) International Application Number:
PCT/EP2020/070767

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

(22) International Filing Date:
23 July 2020 (23.07.2020)

(25) Filing Language: English

Published:

- with international search report (Art. 21(3))

(26) Publication Language: English

(30) Priority Data:
19188880.9 29 July 2019 (29.07.2019) 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, 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,

(54) Title: A METHOD OF EXTRACTING CARBONIC ACID, ALIPHATIC ACIDS, ESTERS AND ALCOHOLS FROM AN AQUEOUS MEDIUM

(57) Abstract: The present invention relates to a method of extracting at least one selected from carbonic acid, aliphatic acid, aliphatic acid ester and aliphatic alcohol from an aqueous medium, the method comprising the steps: (a) contacting the carbonic acid, aliphatic acid, aliphatic acid ester and/or aliphatic alcohol in the aqueous medium with an extracting medium containing at least one alkyl-phosphine oxide for a time sufficient to extract the carbonic acid, aliphatic acid, aliphatic acid ester and/or aliphatic alcohol from the aqueous medium into the extracting medium, and (b) separating the extracting medium with the extracted carbonic acid, aliphatic acid, aliphatic acid ester and/or aliphatic alcohol from the aqueous medium, characterized in, that the at least one alkyl-phosphine oxide contains at least two different alkyl radicals per alkyl-phosphine oxide molecule and the aqueous medium in (a) contains a microorganism, preferably a living microorganism, producing the carbonic acid, aliphatic acid, aliphatic acid ester and/or aliphatic alcohol.



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