

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

(19) World Intellectual Property
Organization
International Bureau



(10) International Publication Number
WO 2021/191290 A1

(43) International Publication Date
30 September 2021 (30.09.2021)

(51) International Patent Classification:

B01J 13/08 (2006.01) **A61K 9/48** (2006.01)
A01N 25/28 (2006.01) **B01J 13/10** (2006.01)
A23P 10/30 (2016.01) **C11D 3/50** (2006.01)
A61K 8/11 (2006.01)

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).

(21) International Application Number:

PCT/EP2021/057592

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))

(22) International Filing Date:

24 March 2021 (24.03.2021)

(25) Filing Language:

English

(26) Publication Language:

English

Published:

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

(30) Priority Data:

20166346.5 27 March 2020 (27.03.2020) EP

(71) Applicant: **FIRMENICH SA** [CH/CH]; Corporate Legal & Compliance - IP Group, 7, rue de la Bergère, 1242 Satigny (CH).

(72) Inventors: **VAN DER GUCHT, Jasper**; Wageningen University, Department Agrotechnology and Food Sciences, Stippeneng 2, 6708 WE Wageningen (NL). **DE VRIES, Renko**; Wageningen University, Department Agrotechnology and Food Sciences Stippeneng 2, 6708 WE Wageningen (NL). **LI, Xiufeng**; Wageningen University, Department Agrotechnology and Food Sciences Stippeneng 2, 6708 WE Wageningen (NL). **DARDELLE, Gregory**; FIRMENICH SA, 7, Rue de la Bergère, 1242 Satigny (CH). **ERNI, Philipp**; FIRMENICH SA, 7, Rue de la Bergère, 1242 Satigny (CH). **OUALI, Lahoussine**; FIRMENICH SA, 7, Rue de la Bergère, 1242 Satigny (CH). **THIEBAUT, Nathalie**; FIRMENICH SA, 7, Rue de la Bergère, 1242 Satigny (CH).

(74) Agent: **DUREISSEIX, Valérie**; Firmenich SA, 7, rue de la Bergère, 1242 Satigny (CH).

(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,

(54) Title: COACERVATE CORE-SHELL MICROCAPSULES

(57) Abstract: The present invention relates to plant-based coacervate core-shell microcapsules, wherein the shell comprises a plant protein extract, as well as methods and uses of the same.

WO 2021/191290 A1