



(51) International Patent Classification:

C02F 3/34 (2006.01) C02F 3/00 (2006.01)
A62D 3/02 (2007.01) C09K 3/32 (2006.01)

(21) International Application Number:

PCT/CA2021/051711

(22) International Filing Date:

30 November 2021 (30.11.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/119,788 01 December 2020 (01.12.2020) US

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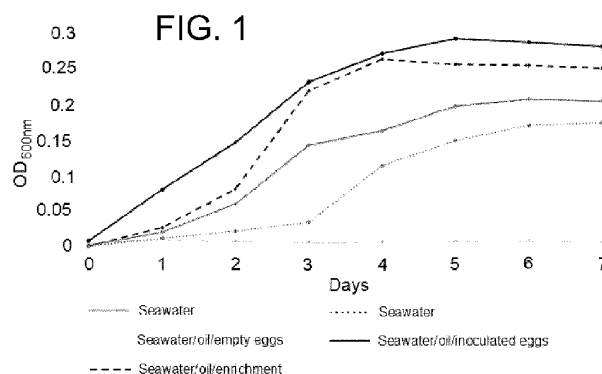
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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, 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,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, ML, MR, NE, SN, TD, TG).

(54) Title: COMPOSITIONS AND METHODS FOR RAPID DEGRADATION AND AMELIORATION OF MARINE OIL SPILLS



(57) Abstract: Disclosed herein are dynamic microbiome-based compositions for rapid degradation and amelioration of marine oil spills, methods for preparing the dynamic microbiome-based compositions, and methods for deploying the dynamic microbiome-based compositions into oil spills. Steps for preparing the composition include forming enrichment cultures in carbon-starved minimal medium supplemented with C₅₋₄₀ hydrocarbons using seawater as inoculum; and mixing the enrichment cultures with a carrier at a mixing rate in the range of 0.5-50 RPM for at least 24h to form aggregates for deployment into oil spills.

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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