

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
16 June 2022 (16.06.2022)



(10) International Publication Number
WO 2022/122888 A1

(51) International Patent Classification:

C10L 1/22 (2006.01) C10L 10/18 (2006.01)
C10L 1/198 (2006.01) C10L 1/222 (2006.01)
C10L 1/238 (2006.01) C10L 1/2383 (2006.01)
C10L 10/04 (2006.01)

(21) International Application Number:

PCT/EP2021/084936

(22) International Filing Date:

09 December 2021 (09.12.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

20213495.3 11 December 2020 (11.12.2020) EP

(71) Applicant (for all designated States except US): **SHELL INTERNATIONAL RESEARCH MAATSCHAPPIJ B.V.** [NL/NL]; Carel van Bylandtlaan 30, 2596 HR The Hague (NL).

(71) Applicant (for US only): **SHELL OIL COMPANY** [US/US]; 150 N. Dairy Ashford, Houston, Texas 77079 (US).

(72) Inventors: **MCFARLANE, Elaine**; Cheshire Innovation Park, Poole Lane, Ince, Cheshire CH2 4NU (GB). **WARDLE, Robert Wilfred Matthews**; Shell Centre, 40 York Road, London SE1 7NA (GB). **SCHABLA, Uwe**; Hohe-Schaar Str. 36, D-21107 Hamburg (DE).

(74) Agent: **SHELL LEGAL SERVICES IP**; PO BOX 384, 2501 CJ The Hague (NL).

(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: USE OF A DETERGENT ADDITIVE

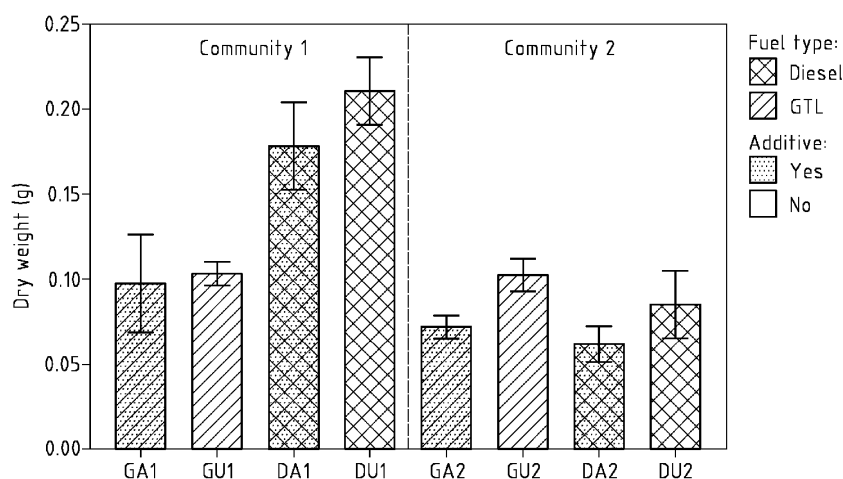


Figure 1

(57) Abstract: Use of a detergent additive in a fuel composition for reducing microbial growth, The present invention is relevant for a wide range of fuel compositions including diesel fuels, heating oils, aviation fuels, marine fuels, and the like.

[Continued on next page]

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