

# (12) International Application Status Report

**Received at International Bureau:** 03 December 2019 (03.12.2019)

**Information valid as of:** 09 January 2020 (09.01.2020)

**Report generated on:** 19 September 2020 (19.09.2020)

**(10) Publication number:**

WO2020/109184

**(43) Publication date:**

04 June 2020 (04.06.2020)

**(26) Publication language:**

English (EN)

**(21) Application Number:**

PCT/EP2019/082317

**(22) Filing Date:**

22 November 2019 (22.11.2019)

**(25) Filing language:**

English (EN)

**(31) Priority number(s):**

62/771,392 (US)

**(31) Priority date(s):**

26 November 2018 (26.11.2018)

**(31) Priority status:**

Priority document received (in compliance with PCT Rule 17.1)

**(51) International Patent Classification:**

*C10L 1/238* (2006.01)

**(71) Applicant(s):**

SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. [NL/NL]; Carel van Bylandtlaan 30 2596 HR THE HAGUE (NL) (*AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BE, BF, BG, BH, BJ, BN, BR, BW, BY, BZ, CA, CF, CG, CH, CI, CL, CM, CN, CO, CR, CU, CY, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, FR, GA, GB, GD, GE, GH, GM, GN, GQ, GR, GT, GW, HN, HR, HU, ID, IE, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KM, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MC, MD, ME, MG, MK, ML, MN, MR, MT, MW, MX, MY, MZ, NA, NE, NG, NI, NL, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SI, SK, SL, SM, SN, ST, SV, SY, SZ, TD, TG, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, ZA, ZM, ZW only*)

SHELL OIL COMPANY [US/US]; 150 N. Dairy Ashford HOUSTON, TX 77079 (US) (*US only*)

**(72) Inventor(s):**

SMITH, Alastair, Graham; 40 Bank Street London E14 5NR (GB)

GRIFFITHS, Claire; 40 Bank Street Canary Wharf London E14 5NR (GB)

SOUTHBY, Mark, Clift; Shell Centre York Road London SE1 7NA (GB)

BERA, Tushar; Westhollow Technology Center 3333 Highway 6 South Houston, TX 77082-3101 (US)

**(74) Agent(s):**

SHELL LEGAL SERVICES IP; PO Box 384 2501 CJ THE HAGUE (NL)

**(54) Title (EN):** FUEL COMPOSITIONS

**(54) Title (FR):** COMPOSITIONS DE CARBURANT

**(57) Abstract:**

**(EN):** A fuel composition comprising a base fuel and at least one viscosity index (VI) improving additive, wherein the viscosity index (VI) improving additive is a functionalized dispersant olefin copolymer. The viscosity index (VI) improving additive provides improved power output and/or acceleration characteristics.

**(FR):** L'invention concerne une composition de carburant comprenant un carburant de base et au moins un additif améliorant l'indice de viscosité (VI), l'additif améliorant l'indice de viscosité (VI) étant un copolymère d'oléfines dispersant fonctionnalisé. L'additif améliorant l'indice de viscosité (VI) fournit des caractéristiques d'accélération et/ou de sortie de puissance améliorées.

**International search report:**

Received at International Bureau: 24 January 2020 (24.01.2020) [EP]

**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

**Declarations:**

Declaration made as applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate