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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
18 June 2020 (18.06.2020)

WIPO | PCT

(10) International Publication Number
WO 2020/120834 A1

(51) International Patent Classification:
C10L 1/08 (2006.01) *C10G 3/00* (2006.01)
C10L 10/00 (2006.01) *C10G 45/58* (2006.01)
C10L 1/185 (2006.01) *C07C 41/56* (2006.01)

(21) International Application Number:
PCT/FI2019/050837

(22) International Filing Date:
25 November 2019 (25.11.2019)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
20186076 14 December 2018 (14.12.2018) FI

(71) Applicant: **NESTE OYJ** [FI/FI]; Keilaranta 21, 02150 Espoo (FI).

(72) Inventors: **KOUVA, Merja**; c/o Neste Oyj/IPR, POB 310, 06101 Porvoo (FI). **LEHTO, Kalle**; c/o Neste Oyj/IPR, POB 310, 06101 Porvoo (FI). **KURONEN, Markku**; c/o Neste Oyj/IPR, POB 310, 06101 Porvoo (FI). **TIITTA, Marja**; c/o Neste Oyj/IPR, POB 310, 06101 Porvoo (FI). **KIISKI, Ulla**; c/o Neste Oyj/IPR, POB 310, 06101 Porvoo (FI).

(74) Agent: **ESPATENT OY**; Kaivokatu 10 D, 00100 Helsinki (FI).

(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, 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.

(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: DIESEL FUEL COMPOSITION

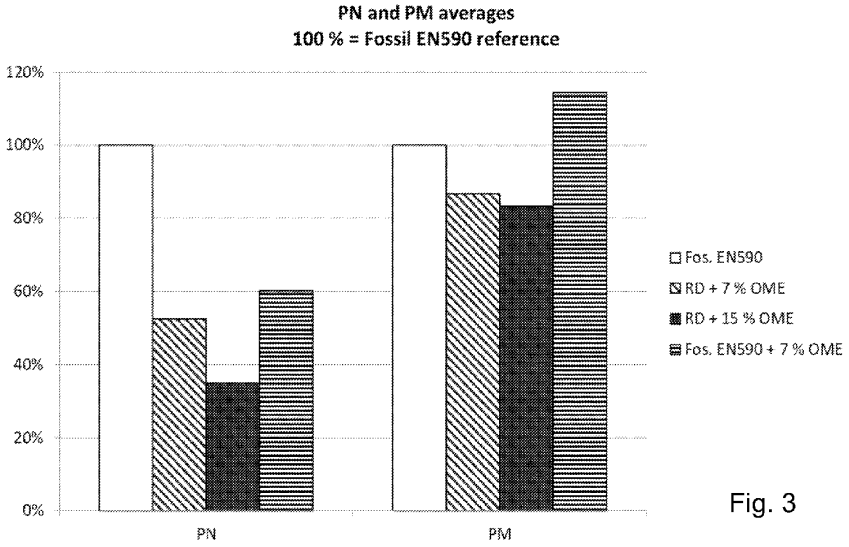

Fig. 3

(57) Abstract: A diesel fuel composition comprising a renewable diesel component and oxymethylene ethers having molecular structure CH_3O-$(CH_2O)_n$-CH_3 with n=3-5 (OME3-5). A method for producing said diesel fuel composition and use thereof. Use of OME3-5 to decrease particle emission of renewable diesel fuels is further disclosed.

[Continued on next page]

WO 2020/120834 A1

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

Declarations under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

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*