

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
29 December 2022 (29.12.2022)



(10) International Publication Number
WO 2022/270925 A1

(51) International Patent Classification:

C10N 30/10 (2006.01) C10M 129/70 (2006.01)
C07C 69/612 (2006.01)

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/KR2022/008901

Published:

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

(22) International Filing Date:

22 June 2022 (22.06.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/214,888 25 June 2021 (25.06.2021) US

(71) Applicant: SONGWON INDUSTRIAL CO., LTD.
[KR/KR]; 83, Jangsaengpo-ro, Nam-gu, Ulsan 44781 (KR).

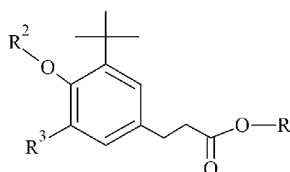
(72) Inventors: DONG, Jun; c/o Songwon Industrial- Ameri-
cas, Inc., 1311 West Parkwood Ave., Friendswood, Texas
77546 (US). LEE, Jeonkyu; c/o Songwon Industrial
Group, R&D Center, 14, Macam-ro Nam-gu, Ulsan 44779
(KR). MULQUEEN, Gerard; c/o Songwon Industrial
Group, Songwon Management AG, Walzmühlestraße 48,
8500 Frauenfeld (CH). KIM, Shinhyun; c/o Songwon In-
dustrial Co., Ltd., TIC Center, 14, Macam-ro Nam-gu, Ul-
san 44779 (KR).

(74) Agent: YOU ME PATENT AND LAW FIRM; 115
Teheran-ro, Gangnam-gu, Seoul 06134 (KR).

(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, IQ, IR, IS, IT, JM, 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,

(54) Title: O-ALKYLATED STERICALLY HINDERED ANTIOXIDANTS



(57) Abstract: The present invention relates to a composition comprising a compound of the general formula (I) in which R¹ is a straight or branched C1-C24 alkyl group; R² is a C1-C8 alkyl group; and R³ is a C1-C8 alkyl group. The invention also relates to industrial products such as additive blends, engine oils and polymer compositions comprising this compound of the general formula (I) and to the use of the compound of the general formula (I) as an additive such in industrial products such as additive blends, engine oils and polymer compositions.



WO 2022/270925 A1