



(51) International Patent Classification:

C10M 169/04 (2006.01) C10N 30/10 (2006.01)
C10M 141/08 (2006.01) C10N 40/25 (2006.01)
C10N 10/04 (2006.01) C10N 70/00 (2006.01)

(21) International Application Number:

PCT/EP2024/087643

(22) International Filing Date:

19 December 2024 (19.12.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

23218539.7 20 December 2023 (20.12.2023) EP

(71) Applicant: INFINEUM INTERNATIONAL LIMITED

[GB/GB]; Milton Hill Business and Technology Centre, Milton Hill, Abingdon, Oxfordshire, OX13 6BD (GB).

(72) Inventors: KEILY, John; Infineum International Limited,

Milton Hill Business and Technology Centre, Milton Hill, Abingdon, Oxfordshire, OX13 6BD (GB). DELAMORE, Oliver; Infineum International Limited, Milton Hill Business and Technology Centre, Milton Hill, Abingdon, Oxfordshire, OX13 6BD (GB). CANT, Alastair; Infineum International Limited, Milton Hill Business and Technology Centre, Milton Hill, Abingdon, Oxfordshire, OX13 6BD

(GB). TABOR, Michelle; Infineum International Limited, Milton Hill Business and Technology Centre, Milton Hill, Abingdon, Oxfordshire, OX13 6BD (GB). LIN, Jian; Infineum International Limited, Milton Hill Business and Technology Centre, Milton Hill, Abingdon, Oxfordshire, OX13 6BD (GB). WILSON, Paul; Infineum International Limited, Milton Hill Business and Technology Centre, Milton Hill, Abingdon, Oxfordshire, OX13 6BD (GB).

(81) Designated States (unless otherwise indicated, for every

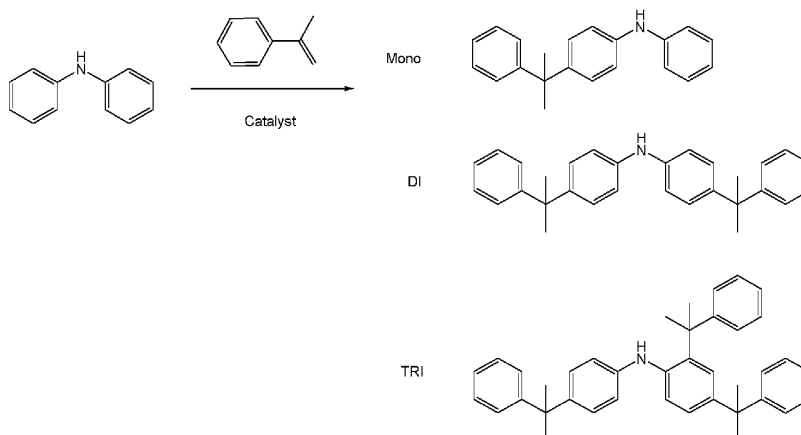
kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, 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, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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,

(54) Title: LUBRICANT COMPOSITIONS CONTAINING ARALKYL SUBSTITUTED DIPHENYLAMINE ANTIOXIDANT

Figure 1 (Fig. 1)



(57) Abstract: This disclosure relates to the use of di(aralkyl substituted phenyl)amine antioxidants as additives in lubricant compositions having good oxidation properties in internal combustion engine applications, especially in compression ignited engine and or spark ignited engine applications.

[Continued on next page]

DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT,
LU, LV, MC, ME, 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))*