

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
27 May 2022 (27.05.2022)



(10) International Publication Number
WO 2022/106519 A1

(51) International Patent Classification:

C10M 145/14 (2006.01)

(21) International Application Number:

PCT/EP2021/082100

(22) International Filing Date:

18 November 2021 (18.11.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

20208466.1 18 November 2020 (18.11.2020) EP

(71) Applicant: **EVONIK OPERATIONS GMBH** [DE/DE];
Rellinghauser Strasse 1-11, 45128 Essen (DE).

(72) Inventors: **SCHIMMEL, Thomas**; E3306, No. 11,
Xin Geng Rd 81, Xuhui, Shanghai, Xinjiang 200030
(CN). **MÄHLING, Frank-Olaf**; Richard-Wagner-Straße
55, 68165 Mannheim (DE). **VOIGT, Lucas**; Käthe-Koll-
witz-Strasse 20, 64331 Weiterstadt (DE).

(74) Agent: **EVONIK PATENT ASSOCIATION**; c/o Evonik
Industries AG, IP Management, Bau 1042A/PB 15, Paul-
Baumann-Straße 1, 45772 Marl (DE).

(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,
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).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))

Published:

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

(54) Title: COMPRESSOR OILS WITH HIGH VISCOSITY INDEX

(57) Abstract: The present invention is directed to the use of polyalkyl (meth)acrylates in compressor oils. It is especially directed to a method of increasing the energy efficiency of a compressor by operating the compressor with a compressor oil comprising a polyalkyl (meth)acrylate-based viscosity index improver.



WO 2022/106519 A1