

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
17 August 2023 (17.08.2023)



(10) International Publication Number
WO 2023/152033 A1

(51) International Patent Classification:

C08F 10/10 (2006.01) C08F 110/10 (2006.01)

C08F 8/48 (2006.01)

(21) International Application Number:

PCT/EP2023/052636

(22) International Filing Date:

03 February 2023 (03.02.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

22156270.5 11 February 2022 (11.02.2022) EP

(71) Applicant: **BASF SE** [DE/DE]; Carl-Bosch-Strasse 38,
67056 Ludwigshafen Am Rhein (DE).

(72) Inventors: **LEDERHOSE, Paul**; Carl-Bosch-Straße 38,
67056 Ludwigshafen am Rhein (DE). **PIERRE, Bernard**;
Scheldelaan 600, 2040 Antwerpen (BE). **BRYM, Markus**;
Carl-Bosch-Straße 38, 67056 Ludwigshafen am Rhein
(DE). **WETTLING, Thomas**; Carl-Bosch-Straße 38,
67056 Ludwigshafen am Rhein (DE).

(74) Agent: **BASF IP ASSOCIATION**; BASF SE GBI - C006,
67056 Ludwigshafen (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, 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, 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, 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, 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))

(54) Title: MEDIUM MOLECULAR POLYISOBUTENE WITH A CERTAIN DISTRIBUTION OF DOUBLE BOND ISOMERS

(57) Abstract: The present invention concerns mixtures of medium molecular polyisobutene with a number-average molecular weight M_n of more than 10000 and up to 100000 g/mol with a certain distribution of isomers exhibiting a certain reactivity in thermal and/or photoreactions.

WO 2023/152033 A1