



(51) International Patent Classification:

C08J 3/21 (2006.01) *C08L 9/00* (2006.01)
C08J 3/22 (2006.01) *B60C 1/00* (2006.01)
C08K 3/04 (2006.01)

(21) International Application Number:

PCT/EP2012/071288

(22) International Filing Date:

26 October 2012 (26.10.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

PCT/US2011/059134
3 November 2011 (03.11.2011) US

(71) Applicant: **LANXESS DEUTSCHLAND GMBH**
[DE/DE]; 51369 Leverkusen (DE).

(72) Inventors: **KLOPPENBURG, Heike**; Fröbelstr. 24,
40625 Düsseldorf (DE). **LUCASSEN, Alex**; Lennweg 5,
41540 Dormagen (DE). **HARDY, David**; Rotkäppchenweg
16, 41541 Dormagen (DE). **GROB, Thomas**; Holunder-
weg 12, 42489 Wülfrath (DE). **DOUGLAS, Judy, Eliza-
beth**; 4375 North Major Dr., Apt. 2221, Beaumont, Texas
77713 (US).

(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, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP,
KR, KZ, LA, LC, LK, LR, LS, LT, 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, 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, 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,
ML, MR, NE, SN, TD, TG).

Published:

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

(54) Title: NDBR WET MASTERBATCH

(57) Abstract: The invention relates to an NdBR wet masterbatch comprising -neodymium-catalysed polybutadienes having a high proportion of cis-1,4 units of > 95% and a low proportion of 1,2-vinyl content of < 1%, with narrow polydispersity of less than 3, with a Mooney viscosity (ML₁₊₄100°C) between 30 and 90 MU, with a high linearity index (ratio of solution viscosity to Mooney viscosity) of 3 to 10 m Pas/MU and with a Mooney relaxation after 30 seconds of 2 to 12%, the latter being prepared by means of solution polymerization, -at least one carbon black, the carbon black having an iodine absorption number (ION) between 85 and 210 mg/g, measured to ASTM D1510-1304, and an oil absorption number (OAN) between 75 and 150 ml/100g, measured to ASTM D2414, and -an oil.



WO 2013/064434 A1