

(12) International Application Status Report

Received at International Bureau: 28 October 2004 (28.10.2004)

Information valid as of: (..)

Report generated on: 22 January 2021 (22.01.2021)

(10) Publication number:

WO2005/037914

(43) Publication date:

28 April 2005 (28.04.2005)

(26) Publication language:

Japanese (JA)

(21) Application Number:

PCT/JP2004/015258

(22) Filing Date:

15 October 2004 (15.10.2004)

(25) Filing language:

Japanese (JA)

(31) Priority number(s):

2003-357959 (JP)

(31) Priority date(s):

17 October 2003 (17.10.2003)

(31) Priority status:

Priority document received (in compliance with PCT Rule 17.1)

(51) International Patent Classification:

C08L 9/02 (2006.01); C08L 33/18 (2006.01)

(71) Applicant(s):

ZEON CORPORATION [JP/JP]; 6-1, Marunouchi 2-chome Chiyoda-ku, Tokyo 1008323 (JP) *(for all designated states except US)*
KOMIYAMA, Shinji [JP/JP]; c/o Zeon Corporation 6-1, Marunouchi 2-chome Chiyoda-ku, Tokyo 1008323 (JP) *(for US only)*
NUMATA, Hiromi [JP/JP]; c/o Zeon Corporation 6-1, Marunouchi 2-chome Chiyoda-ku, Tokyo 1008323 (JP) *(for US only)*
TOYA, Takashi [JP/JP]; c/o Zeon Corporation 6-1, Marunouchi 2-chome Chiyoda-ku, Tokyo 1008323 (JP) *(for US only)*
YOKOYAMA, Seiji [JP/JP]; c/o Zeon Corporation 6-1, Marunouchi 2-chome Chiyoda-ku, Tokyo 1008323 (JP) *(for US only)*
FUJITA, Haruhiko [JP/JP]; c/o Zeon Corporation 6-1, Marunouchi 2-chome Chiyoda-ku, Tokyo 1008323 (JP) *(for US only)*

(72) Inventor(s):

KOMIYAMA, Shinji; c/o Zeon Corporation 6-1, Marunouchi 2-chome Chiyoda-ku, Tokyo 1008323 (JP)
NUMATA, Hiromi; c/o Zeon Corporation 6-1, Marunouchi 2-chome Chiyoda-ku, Tokyo 1008323 (JP)
TOYA, Takashi; c/o Zeon Corporation 6-1, Marunouchi 2-chome Chiyoda-ku, Tokyo 1008323 (JP)
YOKOYAMA, Seiji; c/o Zeon Corporation 6-1, Marunouchi 2-chome Chiyoda-ku, Tokyo 1008323 (JP)
FUJITA, Haruhiko; c/o Zeon Corporation 6-1, Marunouchi 2-chome Chiyoda-ku, Tokyo 1008323 (JP)

(74) Agent(s):

MAEDA, Hitoshi; Maeda & Nishide 2F, Tokyodo Jinboucho 3rd Bldg. 1-17, Kandajinboucho 1-chome Chiyoda-ku Tokyo 101-0051 (JP)

(54) Title (EN): POLYMER ALLOY, CROSSLINKED OBJECT, AND INDUSTRIAL PART

(54) Title (FR): ALLIAGE POLYMERE, OBJET RETICULE, ET PIECE INDUSTRIELLE ASSOCIEE

(54) Title (JA): ポリマーアロイ、架橋物および工業部品

(57) Abstract:

(EN): A polymer alloy which comprises (A) 5 to 88 wt.% ##-ethylenically unsaturated nitrile/conjugated diene copolymer rubber having a number-average molecular weight of 50,000 to 150,000, (B) 10 to 60 wt.% acrylic copolymer having units derived from an ##-ethylenically unsaturated nitrile monomer, and (C) 2 to 50 wt.% ##-ethylenically unsaturated nitrile/conjugated diene copolymer rubber having a number-average molecular weight of 1,000 to 20,000. The polymer alloy is excellent in oil resistance and ozone resistance and also in resistance to cracking caused by solvents.

(FR): L'invention concerne un alliage polymère comprenant: (A) 5 à 88 % en poids de caoutchouc de copolymère de diène conjugué/nitrile ## éthyléniquement insaturé, présentant un poids moléculaire moyen en nombre compris entre 50 000 et 150 000 ; (B) 10 à 60 % en poids d'un copolymère acrylique présentant des unités dérivées d'un monomère de nitrile ## éthyléniquement insaturé ; et (C) 2 à 50 % en poids de caoutchouc de copolymère de diène conjugué/nitrile ## éthyléniquement insaturé présentant un poids moléculaire moyen en nombre compris entre 1 000 et 20 000. Cet alliage polymère présente une excellente résistance à l'huile et une excellente résistance à l'ozone, ainsi qu'une excellente résistance au craquage provoqué par des solvants.

(JA): 数平均分子量 50,000 ~ 150,000 の α,β -エチレン性不飽和二トリル-共役ジエン共重合ゴム(A) 5 ~ 8 重量%、 α,β -エチレン性不飽和二トリル単量体単位を含有するアクリル共重合体(B) 10 ~ 60 重量%、および数平

均分子量 1,000 ~ 20,000 の α,β -エチレン性不飽和ニトリル-共役ジエン共重合ゴム(C)2 ~ 50 重量%から成るポリマーアロイ。この発明によると、耐油性及び耐オゾン性に優れ、かつ、耐溶剤亀裂性にも優れるポリマーアロイを提供することができる。

International search report:

Received at International Bureau: 18 November 2004 (18.11.2004) [JP]

International Report on Patentability (IPRP) Chapter II of the PCT:

Not available

(81) Designated States:

AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

European Patent Office (EPO) : AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR

African Intellectual Property Organization (OAPI) : BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

African Regional Intellectual Property Organization (ARIPO) : BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW

Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, MD, RU, TJ, TM