



(51) International Patent Classification:

F16F 15/36 (2006.01) B60C 19/00 (2006.01)
C08K 3/36 (2006.01) C08L 71/02 (2006.01)

(21) International Application Number:

PCT/EP2009/065058

(22) International Filing Date:

12 November 2009 (12.11.2009)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

08168913.5 12 November 2008 (12.11.2008) EP

(71) Applicant (for all designated States except US):
CARNEHAMMAR, Lars Bertil [SE/CH]; Sonnenbergstrasse 126, CH-8050 Zürich (CH).

(72) Inventor; and

(75) Inventor/Applicant (for US only): RONLAN, Alvin [SE/SE]; Östermalmsgatan 103, S-11459 Stockholm (SE).

(74) Agent: PLOUGMANN & VINGTOFT A/S; Sundkrogs-gade 9, P.O. Box 831, DK-2100 Copenhagen Ø (DK).

(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, 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, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (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, 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))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:

2 December 2010

(54) Title: TYRE BALANCING COMPOSITIONS

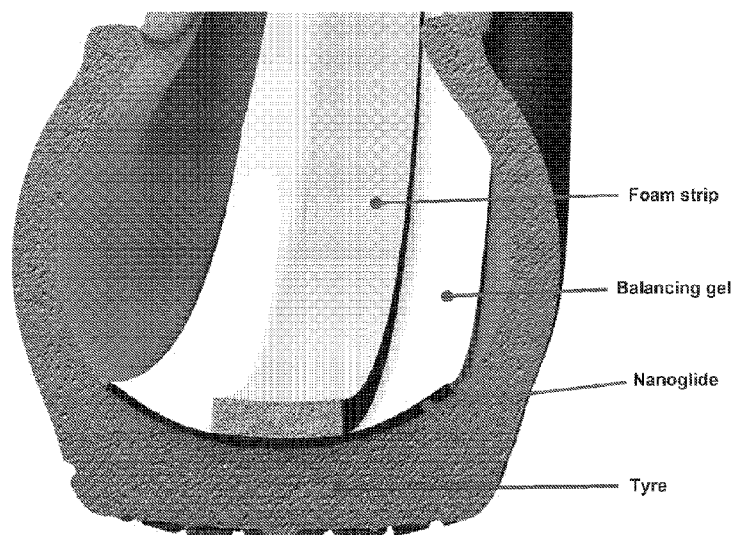


Fig. 1 Diagram of a tyre modified to achieve optimal balancing using the gels of this invention.

(57) Abstract: Visco-elastic tyre balancing compositions comprising 1) 85 to 97% by weight of a glycol ether component comprising one or more ethylene/propylene glycol copolymer ethers of the general formula (I) or the general (II) or mixtures thereof $R-O\{[CH(CH_3)CH_2-O]_m[CH_2-CH_2-O]_n\}H$ (I) $R_1-(O-\{[CH(CH_3)CH_2-O]_m[CH_2-CH_2-O]_n\})_2$ (II) wherein R is hydrogen or an alkyl group of 2-8 carbon atoms; R_1 is an alkylene moiety of 2-8 carbon atoms in which the two substituents are not carried on the same carbon atom; m is the mole percentage of propylene glycol in the ethylene/propylene glycol copolymer moiety or moieties; and n is the mole percentage of ethylene glycol in the ethylene/propylene glycol copolymer moiety or moieties, wherein the ratio n: m is in the range from 35:65 to 80:20; each glycol copolymer compound having a number average molecular weight in the range of 2000-10000; and 2) 3 to 15% by weight of a fumed silica gel former; said balancing compositions being visco-elastic and having a Storage Modulus (G') between 1500 Pa and 5000 Pa at 22°C, a Loss Modulus (G'') smaller than the Storage Modulus up to a Cross Over Frequency of 10-40 Hz, and a Critical Yield Stress exceeding 2 Pa.

WO 2010/055097 A3

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2009/065058

A. CLASSIFICATION OF SUBJECT MATTER
 INV. F16F15/36 C08K3/36 B60C19/00
 ADD. C08L71/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 B60C G01M C08K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 92/08775 A1 (RONLAN ALVIN [SE]) 29 May 1992 (1992-05-29) cited in the application page 3, paragraph 1 page 5, line 36 - page 6, line 20 page 7, line 16 - line 25; claims 1,5,6	1,4-8
X	WO 2008/009696 A (CARNEHAMMAR LARS BERTIL [SE]; SEITZ NORBERT [DE]) 24 January 2008 (2008-01-24) page 8, line 23 - line 25 page 2, paragraph 2 - paragraph 4	1-8

Further documents are listed in the continuation of Box C.

See patent family annex.

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Date of the actual completion of the international search

14 October 2010

Date of mailing of the international search report

21/10/2010

Name and mailing address of the ISA/
 European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040,
 Fax: (+31-70) 340-3016

Authorized officer

Engel, Hermann

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/EP2009/065058

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