



(43) International Publication Date
4 October 2012 (04.10.2012)

(51) International Patent Classification:

C08J 5/12 (2006.01) *B32B 25/08* (2006.01)
B60C 1/00 (2006.01) *B32B 27/08* (2006.01)
C08J 7/04 (2006.01) *C09J 161/12* (2006.01)
B32B 25/04 (2006.01) *C09J 179/02* (2006.01)

(21) International Application Number:

PCT/US2011/030345

(22) International Filing Date:

29 March 2011 (29.03.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(71) Applicant (for all designated States except US): **EXXON-MOBIL CHEMICAL PATENTS INC.** [US/US]; A Corporation Of The State Of Delaware, 5200 Bayway Drive, Baytown, TX 77520 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SHANNON, Porter, C.** [US/US]; 1129 Carriage Court, Seabrook, TX 77586 (US). **KEUNG, Jay, K.** [US/US]; 12123 Pinelands Park Lane, Humble, TX 77346 (US). **MANDERS, Peter, William** [GB/US]; 41 York Drive, Hudson, OH 44236 (US). **MCGEE, Dennis, E.** [US/US]; 7 Hillary Lane, Penfield, NY 14526 (US).

(74) Agents: **KRAWCZYK, Nancy, T.** et al.; ExxonMobil Chemical Company, P.O. Box 2149, Baytown, TX 77522-2149 (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, 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, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

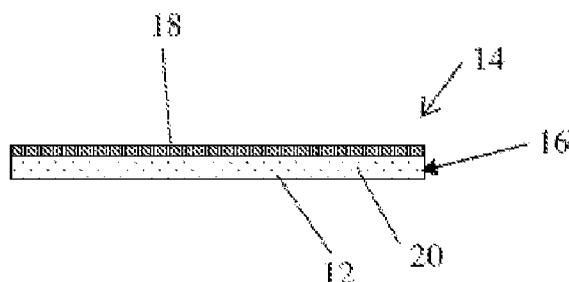
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, 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: DYNAMICALLY VULCANIZED THERMOPLASTIC ELASTOMER LAMINATES

Fig. 1



(57) Abstract: Disclosed herein is a process to produce a laminate comprises coating at least an outer surface of a dynamically vulcanized alloy film with an adhesive composition to produce the laminate, wherein the adhesive layer has a thickness of less than or equal to about 5 microns, wherein the dynamically vulcanized alloy film comprises a thermoplastic elastomer composition containing a thermoplastic resin as a continuous phase, and a rubber composition dispersed therein, as a dispersed phase. A laminate and a pneumatic tire comprising the laminate are also disclosed.