



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C08L 23/16, C08K 5/20, C08J 5/18, B29C 59/10	A1	(11) International Publication Number: WO 98/37143 (43) International Publication Date: 27 August 1998 (27.08.98)
(21) International Application Number: PCT/US98/03602 (22) International Filing Date: 24 February 1998 (24.02.98) (30) Priority Data: 08/806,182 25 February 1997 (25.02.97) US 08/847,730 28 April 1997 (28.04.97) US 08/905,211 1 August 1997 (01.08.97) US (71) Applicant (for all designated States except US): EXXON CHEMICAL PATENTS INC. [US/US]; 5200 Bayway Drive, Bayton, TX 77520-5200 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): VAN LOON, Achiel, Josephus, Maria [BE/BE]; Wouwersdreef 48, B-2900 Schoten (BE). DONALD, Fiona [BE/BE]; Avenue Paul Hymans 54, Woluwe Saint Lambert, B-1200 Bruxelles (BE). ESPEEL, Patrick [BE/BE]; Rijkweg 68, B-3020 Herent (BE). (74) Agents: RUSSELL, Linda, K. et al.; Exxon Chemical Com- pany, P.O. Box 2149, Baytown, TX 77522-2149 (US).		(81) Designated States: AU, BR, CA, CN, HU, IL, JP, KR, NO, NZ, PL, PT, SG, TR, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the</i> <i>claims and to be republished in the event of the receipt of</i> <i>amendments.</i>
(54) Title: CORONA DISCHARGE TREATED FILMS HAVING EXCELLENT COEFFICIENTS OF FRICTION		
(57) Abstract This invention relates to a film comprising: (1) a Surface Friction Modifying Additive; and (2) at least one surface layer comprising mPE, wherein the mPE is a homopolymer of ethylene or a copolymer of ethylene and a C₃ to C₂₀ olefin (preferably octene or hexene) having an Mw/Mn of 4 or less, and a CDBI of 50 % or more, wherein at least one surface layer of mPE is treated by corona discharge and thereafter there is at least a 20-60 % increase in the coefficient of friction of the treated mPE surface layer as compared to the COF prior to corona discharge treatment when tested according to ASTM D-1894 after seven days of storage 23 °C and 50 % relative humidity and the COF of the corona treated mPE surface is higher than the other surface layer.		