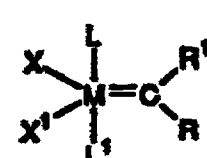




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International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C08F 4/80, 32/04, 32/08	A1	(11) International Publication Number: WO 97/20865 (43) International Publication Date: 12 June 1997 (12.06.97)
(21) International Application Number: PCT/US96/19216 (22) International Filing Date: 3 December 1996 (03.12.96) (30) Priority Data: 60/008,356 7 December 1995 (07.12.95) US 08/759,018 2 December 1996 (02.12.96) US (71) Applicant: ADVANCED POLYMER TECHNOLOGIES [US/US]; 2nd floor, 2201 Forsythe, P.O. Box 7572, Monroe, LA 71201 (US). (72) Inventors: WOODSON, Charles, S., Jr.; Apartment #178, 3111 Old Sterlington Road, Monroe, LA 71203 (US). GRUBBS, Robert, H.; 1700 Spruce Street, South Pasadena, CA 91030 (US). (74) Agents: JAMES, Patricia, Coleman et al.; Limbach & Limbach L.L.P., 2001 Ferry Building, San Francisco, CA 94111 (US).	(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>	
(54) Title: METHOD FOR EXTENDING THE POT LIFE OF AN OLEFIN METATHESIS POLYMERIZATION REACTION		
 (I)		
(57) Abstract The application describes compositions and methods for catalyzing and controlling the rate of olefin metathesis reactions including Ring Opening Metathesis Polymerization (ROMP) reactions where the composition includes a Ruthenium or Osmium carbene complex having formula (I) and a gel modification additive. In the formula M may be Os or Ru; R and R ¹ may be the same or different and may be hydrogen or a substituent group including C ₂ -C ₂₀ alkenyl, C ₂ -C ₂₀ alkynyl, C ₁ -C ₂₀ alkyl, aryl, C ₁ -C ₂₀ carboxylate, C ₁ -C ₂₀ alkoxy, C ₂ -C ₂₀ alkenyloxy, C ₂ -C ₂₀ alkynyloxy, aryloxy, C ₂ -C ₂₀ alkoxycarbonyl, C ₁ -C ₂₀ alkylthio, C ₁ -C ₂₀ alkylsulfonyl and C ₁ -C ₂₀ alkylsulfinyl; X and X ¹ may be the same or different and may be any anionic ligand; and L and L ¹ may be the same or different and may be neutral electron donor. The gel modification additive may be a neutral electron donor or a neutral Lewis base including phosphine, sulfonated phosphine, phosphite, phosphinite, phosphonite, arsine, stibine, ether, amine, amide, sulfoxide, carboxyl, nitrosyl, pyridine or thioether; or a trialkylphosphine or triarylphosphine.		