

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

9805306-9

IPCS



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶: H01M 6/16	A1	(11) International Publication Number: WO 98/38687 (43) International Publication Date: 3 September 1998 (03.09.98)
(21) International Application Number: PCT/US98/04071 (22) International Filing Date: 27 February 1998 (27.02.98) (30) Priority Data: - 60/038,346 28 February 1997 (28.02.97) US 09/031,015 26 February 1998 (26.02.98) US (71) Applicant: ELF ATOCHEM NORTH AMERICA, INC. [US/US]; 2000 Market Street, Philadelphia, PA 19103-3222 (US). (72) Inventors: WILLE, Roice, Andrus; 813 Charleston Greene, Malvern, PA 19355 (US). BURCHILL, Michael, T.; 83 Hampton Drive, Langhorne, PA 19047 (US). (74) Agents: MARCUS, Stanley, A. et al.; Elf Atochem North America, Inc., 2000 Market Street, Philadelphia, PA 19103-3222 (US).		(81) Designated States: CA, CN, HU, ID, JP, KR, MX, SG, 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>
(54) Title: COPOLYMERS OF VINYLIDENE FLUORIDE AND HEXAFLUOROPROPYLENE HAVING REDUCED EXTRACTABLE CONTENT AND IMPROVED SOLUTION CLARITY (57) Abstract New and novel copolymers of vinylidene fluoride and hexafluoropropylene containing up to about 24 % by weight hexafluoropropylene having improved solution clarity and fluidity, longer gel times and lower extractables than prior art vinylidene fluoride-hexafluoropropylene copolymers of comparable HFP content whose syntheses are disclosed in sufficient detail to duplicate, the novel compositions of matter and articles of manufacture containing such copolymers, of the compositions of matter containing such copolymers and of the articles of manufacture containing such copolymers are disclosed. Also disclosed are novel battery constructions based on the novel copolymers of vinylidene fluoride/hexafluoropropylene copolymers of the invention, on vinylidene fluoride homopolymers having a bimodal molecular weight distribution and on vinylidene fluoride/chlorotrifluoroethylene copolymers having a substantially homogeneous monomer distribution.		