

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : B01F 17/00, C11D 3/24, A61K 7/00, 7/18, 7/48, 9/107, 9/00	A1	(11) International Publication Number: WO 00/35571 (43) International Publication Date: 22 June 2000 (22.06.00)
(21) International Application Number: PCT/US99/08245 (22) International Filing Date: 15 April 1999 (15.04.99) (30) Priority Data: 09/212,559 16 December 1998 (16.12.98) US (71) Applicant: 3M INNOVATIVE PROPERTIES COMPANY [US/US]; 3M Center, P.O. Box 33427, Saint Paul, MN 55133-3427 (US). (72) Inventors: BARAN, Jimmie, R., Jr.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). PELLERITE, Mark, J.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). (74) Agents: BARDELL, Scott, A. et al.; 3M Innovative Properties Company, Office of Intellectual Property Counsel, P.O. Box 33427, Saint Paul, MN 55133-3427 (US).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: MICROEMULSIONS CONTAINING WATER AND HYDROFLUOROETHERS (57) Abstract The invention provides a microemulsion that comprises from 0.1 to 99.0 parts by weight hydrofluoroether, from 1.0 to 99.9 parts by weight water, the sum of the parts of hydrofluoroether and water being 100 parts, and fluorinated surfactant. The microemulsions of the invention preferably contain a mixture of fluorinated surfactants and may also contain a non-fluorinated surfactant. The microemulsions of the invention may also further contain cosurfactant and/or cosolvent.		