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(21) International Application Number: PCT/US96/16148 (22) International Filing Date: 9 October 1996 (09.10.96) (30) Priority Data: 08/556,336 13 November 1995 (13.11.95) US (71) Applicant: MINNESOTA MINING AND MANUFACTURING COMPANY [US/US]; 3M Center, P.O. Box 33427, Saint Paul, MN 55133-3427 (US). (72) Inventors: KREPSKI, Larry, R.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). KUO, Richard, J.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). RAO, Prabhakara, S.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). SMITH, Terrance, P.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). (74) Agents: BERNSTEIN, David, B. et al.; Minnesota Mining and Manufacturing Company, Office of Intellectual Property Counsel, P.O. Box 33427, Saint Paul, MN 55133-3427 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, 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, 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>
(54) Title: WATER-BASED PIGMENTED INKS (57) Abstract Water-based pigmented inks are disclosed. Such inks are formed from water-based dispersions of pigment particles having novel dispersants therein. The dispersions are formed from the reaction product of an alkenyl azlactone with an N-substituted amino acid compound. Subsequent to the reaction, the reaction product is ring-opened using an amine and, optionally, hydrolyzed. The resulting inks are well-suited for use in ink jet and other printing applications.		