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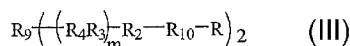
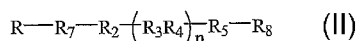
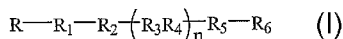
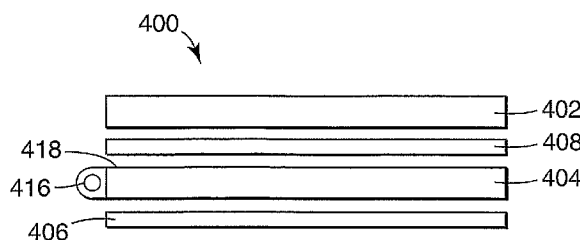
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(54) Title: CHOLESTERIC LIQUID CRYSTAL COPOLYMERS AND ADDITIVES



(57) Abstract: A cholesteric liquid crystal composition includes a) a cholesteric liquid crystal compound or a cholesteric liquid crystal precursor; and b) a compound of formula (I), formula (II) or formula (III): where, n is 1, 2, 3, or 4; m is 1, 2, or 3; R is an acrylate, methacrylate, acrylamide, isocyanate, epoxy, or silane; R₁ is a (C₃-C₈) alkylene, (C₃-C₈) alkenylene, or (C₃-C₈) alkylyne; R₂ is a bond, -O-, -C(O)O-, -O(O)C-, -OC(O)O-, -C(O)N-, -CH=N-, -N=CH-, or -NC(O)-; R₃ is a cycloalkylene, cycloalkenylene, heterocyclylene, arylene, or hetroarylene; R₄ is a bond, (C₁-C₈) alkylene, (C₂-C₈) alkenylene, (C₂-C₈) alkylyne, carbonyl, -O-, -C(O)O-, -O(O)C-, -OC(O)O-, -C(O)N-, -CH=N-, -N=CH-, or -NC(O)-; R₅ is a bond, cycloalkylene, cycloalkenylene, heterocyclylene, arylene, or hetroarylene; R₆ is hydrogen, cyano, halo, (C₁-C₈) alkoxy, (C₁-C₈) alkyl, nitro, amino, carboxy, mercapto, (C₁-C₄)thioalkyl, COCH₃, CF₃, OCF₃, or SCF₃; R₇ is a (C₁-C₂) alkylene, (C₂) alkenylene, or (C₂) alkylyne; R₈ is hydrogen, halo, (C₁-C₈) alkoxy, (C₁-C₈) alkyl, nitro, amino, carboxy, mercapto, (C₁-C₄)thioalkyl, COCH₃, CF₃, OCF₃, or SCF₃; R₉ is a cycloalkylene, cycloalkenylene, heterocyclylene, arylene, or hetroarylene; and R₁₀ is a (C₁-C₈) alkylene, (C₂-C₈) alkenylene, or (C₂-C₈) alkylyne.



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**Declarations under Rule 4.17:**

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, 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, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,

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