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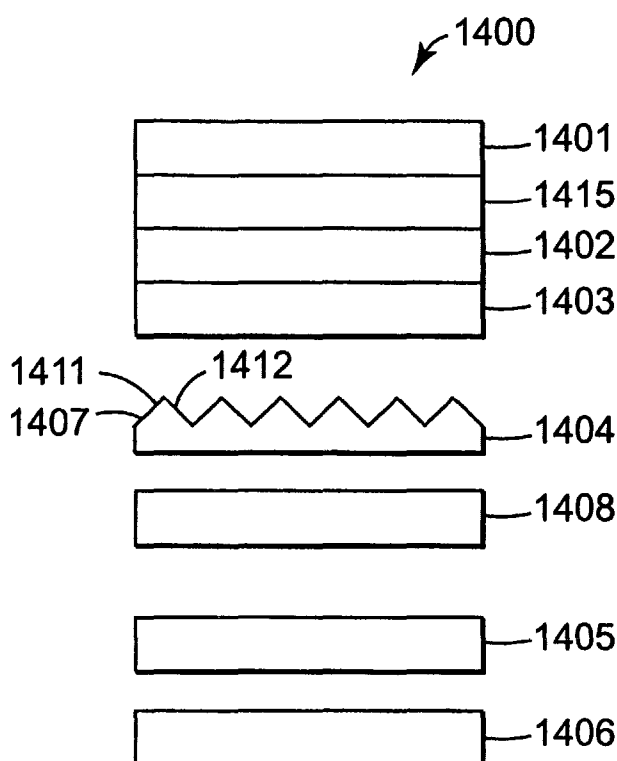
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Declarations under Rule 4.17:

— 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, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI,

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(54) Title: OPTICAL DEVICES HAVING REFLECTIVE AND TRANSMISSIVE MODES FOR DISPLAY



(57) Abstract: Display apparatuses (100;200;400;500;1400) are shown capable of displaying information in a reflective mode using only ambient light (110;210;510) and in a transmissive mode using a light source (105;205;505;1405). In one embodiment, the display apparatus (100;1400) includes a reflecting polarizer (104;1408) disposed between a light modulating layer (102;1402) and an isotropic light cavity (105;106;1405;1406). The light cavity (105;106;1405;1406) reflects incident light with a first degree of depolarization. The reflecting polarizer (104;1408) reflects light with a second degree of depolarization for at least one polarization that is greater than the first degree of depolarization. In another embodiment of the display apparatus (200;1400), a microstructured film (204;1404) is included above a light cavity (205;206;1405;1406) and below a light modulating system (201,202,203,208,1401,1402,1403,1415) where the microstructured film (204;1404) includes sawtooth formations (207;1407) having at least a tilted surface (211,212;1411,1412). In another embodiment of a dual-mode display device (500), the display (500) includes a cholesteric reflecting polarizer (504) disposed between a light modulating layer (502) and a light cavity (505,506) where the light cavity (505,506) causes a polarization phase shift upon reflectance.

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