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(54) Title: LIQUID CRYSTAL DISPLAY DEVICE AND RETARDATION FOIL

(57) Abstract

A liquid crystal display cell is provided with a compensation layer which, viewed transversely to the cell, has a broken (non-rotationally) symmetrical refractive index pattern or indicatrix. To obtain a small angle dependence, the associated birefringence of the compensation layer is complementary to that associated with a given voltage across the liquid crystal cell, so that the optical axis of the compensation layer substantially coincides with the direction of the directors in the driven state. The compensation layer can be manufactured in many different ways by making use of cholesteric foils or foils based on discotic LC materials.

