

Liquid crystalline display, switching or image processing
apparatus

ABSTRACT

The commercial production of DHF cells, in particular a colored DHF display cell, has scarcely become established to date. This is because in particular such cells based on the known prior art expediently must possess a liquid crystal layer having a thickness d of about 1.4 to 2.8 μm , which requires an expensive and complex production process. On the basis of the knowledge that the mean value of the refractive index of a DHF display can be described with that of a birefringent plate, it has now been found that the magnitude of the birefringence Δn changes significantly within a voltage range typical for DHF cells, in particular for DHF displays having a large switching angle α . The present invention therefore relates to the utilization of this second effect of the voltage dependence of Δn , with the object of substantially facilitating the production of DHF displays.

Figure 3