

Title (en)

Method of driving ferroelectric liquid crystal element and ferroelectric liquid crystal display

Title (de)

Verfahren zur Ansteuerung eines ferroelektrischen Flüssigkristallelementes und ferroelektrische Flüssigkristallanzeige

Title (fr)

Méthode de commande d'un élément à cristal liquide ferroélectrique et affichage à cristaux liquides ferroélectriques

Publication

EP 0448032 B1 19960703 (EN)

Application

EP 91104222 A 19910319

Priority

- JP 7051190 A 19900320
- JP 7420591 A 19910315

Abstract (en)

[origin: EP0448032A2] A method of driving a liquid crystal display element in which a switching element is provided for each of pixel electrodes arranged in a matrix manner and a ferroelectric liquid crystal is sandwiched between the pixel electrodes and a counter electrode includes the steps of applying a reset voltage for resetting the entire pixel to a first stable state of the ferroelectric liquid crystal across the pixel electrode and the counter electrode, partially transiting the pixel to a second stable state by a tone signal voltage having a pole opposite to that of the reset voltage, and reversing the pole of the reset voltage every predetermined period. Assuming that a state reverse ratio of the ferroelectric liquid crystal is $T(V)\%$ when the tone signal voltage is V , a tone signal voltage $V1$ after negative resetting and a corresponding tone signal voltage $-V2$ after positive resetting satisfy the following relation: $T(V1) + T(V2) = 100$ <IMAGE>

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CPC (source: EP)

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Cited by

EP0528685A3; EP0536744A3; US5398043A; US5270844A; US5321538A; EP0552045A1; US5615026A; WO9606422A1

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