

Title (en)

Method of driving ferroelectric liquid crystal element.

Title (de)

Verfahren zur Ansteuerung eines ferroelektrischen Flüssigkristallelementes.

Title (fr)

Méthode de commande d'un élément à cristal liquide ferroélectrique.

Publication

**EP 0448032 A2 19910925 (EN)**

Application

**EP 91104222 A 19910319**

Priority

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- JP 7420591 A 19910315

Abstract (en)

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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**G09G 3/36**

IPC 8 full level

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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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