

Title (en)  
LOW POWER LCD DRIVING SCHEME

Title (de)  
LEISTUNGSARMES ANSTEUERSHEMA FÜR FLÜSSIGKRISTALLANZEIGEVORRICHTUNG

Title (fr)  
MECANISME BASSE PUISSANCE DE COMMANDE D'AFFICHEUR A CRISTAUX LIQUIDES

Publication  
**EP 1277194 A1 20030122 (EN)**

Application  
**EP 01928745 A 20010420**

Priority  
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Abstract (en)  
[origin: WO0182284A1] A method of driving passive liquid crystal displays at power levels lower than conventional driving schemes is described. A modified amplitude selection scheme is used, in which a plurality of row scan sequences are used to determining display operating states that display the same information with a lower power requirement. Row scan sequences are used to scan the display by cycling through a plurality of sequences, and one of the sequences that result in reduced power consumption is chosen. The invention describes methods and apparatus for scanning, cycling and triggering scanning displays to find low power states. Other embodiments include fixed, nonsequential row scan sequences. This invention has the further advantage of being compatible with and extending the usefulness of conventional passive liquid crystal display units.

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