

Title (en)

CONTROL SYSTEM AND CONTROL METHOD FOR CHECKING THE FUNCTION OF LIQUID CRYSTAL DISPLAYS

Title (de)

KONTROLLSYSTEM UND KONTROLLVERFAHREN ZUM BERPR FEN DER FUNKTION VON LCD-ANZEIGEN

Title (fr)

SYSTEME DE VERIFICATION ET PROCEDE DE VERIFICATION POUR VERIFIER LE FONCTIONNEMENT D'AFFICHAGES A CRISTAUX LIQUIDES

Publication

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Application

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Abstract (en)

[origin: WO2004090852A1] The invention relates to a method and a measuring system for checking the function of liquid crystal displays comprising individual display segments, on the basis of the difference in the electrical capacitance Cseg of defective and intact display segments. The invention is based on the fact that the capacitance of the display segments is directly determined by measuring the stored electrical charge using a capacitance measuring method. According to the preferred measuring method, a charge transfer is carried out by a reference capacitor Cref, and the segment capacitance Cseg is determined as a result of a charge balance, preferably by means of a DeltaSigma conversion.

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G09G 3/00

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Citation (search report)

See references of WO 2004090852A1

Citation (examination)

- US 2001030634 A1 20011018 - MORIWAKI HIROYUKI [JP]
- JORDAN J R ET AL: "A capacitance ratio to frequency ratio converter using switched-capacitor techniques", SENSORS AND ACTUATORS A, ELSEVIER SEQUOIA S.A., LAUSANNE, CH, vol. 29, no. 2, 1 November 1991 (1991-11-01), pages 133 - 139, XP026556613, ISSN: 0924-4247, [retrieved on 19911101], DOI: DOI:10.1016/0924-4247(91)87115-J

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