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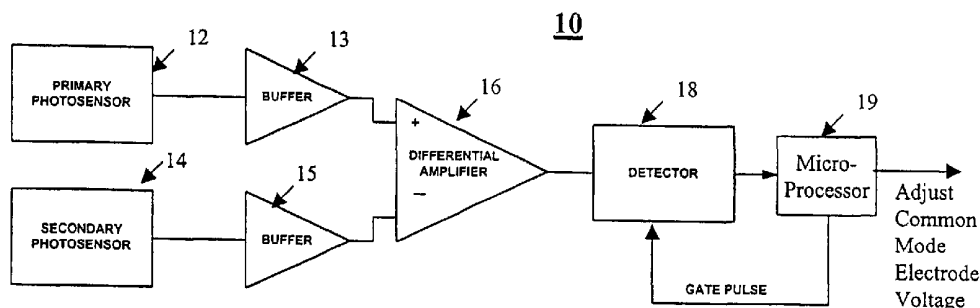
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15 August 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND APPARATUS FOR CONTROLLING COMMON MODE ELECTRODE VOLTAGE IN LCOS/LCD



(57) Abstract: A device (10) for controlling common mode electrode voltage in a liquid crystal display includes at least a first sensor (12) for measuring flicker resulting from applying a video signal with a predetermined color and drive level to an imager. A detector (18) for determining a difference between a positive field detector voltage and a negative field detector voltage is used to provide a feedback loop for feeding back the difference to a controller to adjust the common mode electrode voltage.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/44803

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G09G 3/36; G09G 5/00

US CL : 345/50, 54, 58, 87, 96, 204,207, 209; 348/226, 227

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 345/50, 54, 58, 87, 88, 89, 96, 204,207, 209, 212, 214, 215; 348/226, 227, 223, 224, 225, 230

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
THOMSON LICENSING.AS.

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,561,442 A (OKADA et al) 01 October 1996 (01.10.1996)	1-20
A	US 4,833,525 A (SUZUKI et al) 23 May 1989 (23.05.1989)	1-20
A	US 5,920,298 A (MCKNIGHT) 06 July 1999 (06.07.1999)	1-20
A	US 5,045,928 A (TAKAIWA et al) 03 September 1991 (03.09.1991)	1-20
A	US 5,537,129 A (OKADA et al) 16 July 1996 (16.07.1996)	1-20

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

24 April 2002 (24.04.2002)

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17 MAY 2002

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/44803

## Continuation of B. FIELDS SEARCHED Item 3:

### EAST DATABASE

Search terms: Common electrode, flicker, sensor, amplifier, compare, feedback, automatic, dynamic, ambient, radiation.