

Title (en)

DISPLAY DEVICE AND CONTROL CIRCUIT FOR A LIGHT MODULATOR

Title (de)

ANZEIGEGERÄTE UND STEUERSCHALTUNG FÜR EINEN LICHTMODULATOR

Title (fr)

DISPOSITIF D'AFFICHAGE ET CIRCUIT DE COMMANDE D'UN MODULATEUR DE LUMIERE

Publication

**EP 1644913 B1 20130807 (FR)**

Application

**EP 04767476 A 20040625**

Priority

- FR 2004001629 W 20040625
- FR 0308127 A 20030703

Abstract (en)

[origin: FR2857146A1] The device has compensation units with operational amplifiers (11) connected between gate and source electrodes of polycrystalline silicon modulators. The counter reaction of each amplifier compensates threshold trigger voltage of each modulator irrespective of voltage value. Each amplifier has a non-inverse input (+) and an inverse input (-) and an output terminal, where the output is connected to the gate electrode. The non-inverse input (+) is connected to an addressing unit of a column controlling the modulators and the inverse input (-) is connected to the source electrode.

IPC 8 full level

**G09G 3/32** (2006.01); **G09G 3/20** (2006.01)

CPC (source: EP KR US)

**G09G 3/20** (2013.01 - KR); **G09G 3/30** (2013.01 - KR); **G09G 3/32** (2013.01 - KR); **G09G 3/3233** (2013.01 - EP US); **G09G 3/3258** (2013.01 - EP US); **G09G 3/3291** (2013.01 - EP US); **H05B 33/12** (2013.01 - KR); **G09G 3/2011** (2013.01 - EP US); **G09G 2300/0417** (2013.01 - EP US); **G09G 2300/0465** (2013.01 - EP US); **G09G 2300/0819** (2013.01 - EP US); **G09G 2300/0833** (2013.01 - EP US); **G09G 2300/0842** (2013.01 - EP US); **G09G 2300/0852** (2013.01 - EP US); **G09G 2300/0876** (2013.01 - EP US); **G09G 2300/088** (2013.01 - EP US); **G09G 2320/02** (2013.01 - EP US); **G09G 2320/029** (2013.01 - EP US); **G09G 2320/043** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**FR 2857146 A1 20050107**; CN 100433109 C 20081112; CN 1816837 A 20060809; EP 1644913 A1 20060412; EP 1644913 B1 20130807; JP 2007516454 A 20070621; JP 2012230392 A 20121122; JP 5688051 B2 20150325; KR 101391813 B1 20140507; KR 20070029539 A 20070314; MX PA05014178 A 20060703; TW 200505268 A 20050201; TW I376975 B 20121111; US 2007057874 A1 20070315; US 7557778 B2 20090707; WO 2005013250 A1 20050210

DOCDB simple family (application)

**FR 0308127 A 20030703**; CN 200480018855 A 20040625; EP 04767476 A 20040625; FR 2004001629 W 20040625; JP 2006518259 A 20040625; JP 2012137360 A 20120618; KR 20057025421 A 20051230; MX PA05014178 A 20040625; TW 93119871 A 20040701; US 56280504 A 20040625