

Title (en)

ACTIVE-MATRIX LIGHT-EMITTING DIODE DISPLAY SCREEN PROVIDED WITH ATTENUATION MEANS

Title (de)

AKTIVMATRIX-LED-ANZEIGESCHIRM MIT DÄMPFUNGSVORRICHTUNGEN

Title (fr)

ECRAN D'AFFICHAGE A DIODES ELECTROLUMINESCENTES A MATRICE ACTIVE POURVU DE MOYENS D'ATTENUATION

Publication

**EP 2628150 A1 20130821 (FR)**

Application

**EP 11761344 A 20110922**

Priority

- FR 1004065 A 20101015
- EP 2011066523 W 20110922

Abstract (en)

[origin: WO2012049000A1] The application relates to active-matrix display screens with light-emitting diodes, and in particular with organic diodes (AM-OLED). The display screen comprises an active matrix of pixels, each pixel comprising a light-emitting diode, a control MOS transistor for applying a variable voltage or current to the anode of the diode, a selection transistor for applying to the gate of the transistor, during a phase of writing of this pixel, a variable analogue voltage (Vdat) representing a relative level of luminance of the pixel in the image, a storage capacitor for maintaining this voltage on the gate of the transistor outside of the writing phase. A circuit for attenuating mean luminance comprising a switch (SW) for periodically linking one of the electrodes, preferably the cathode, of the diode to one or the other of two fixed potentials (VkM, Vkoff), and a circuit (CTRL) for controlling the switch so as to perform the switching with a duty ratio which varies as a function of the desired attenuation, the switching occurring during the blanking times.

IPC 8 full level

**G09G 3/32** (2006.01); **G09G 3/20** (2006.01); **H05B 44/00** (2022.01)

CPC (source: EP KR US)

**G09G 3/20** (2013.01 - KR); **G09G 3/2081** (2013.01 - EP US); **G09G 3/32** (2013.01 - KR); **G09G 3/3208** (2013.01 - EP US); **G09G 3/3233** (2013.01 - US); **G09G 2300/0866** (2013.01 - EP US); **G09G 2320/0242** (2013.01 - EP US); **G09G 2320/0626** (2013.01 - EP US)

Citation (search report)

See references of WO 2012049000A1

Cited by

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