

Title (en)

Organic light emitting diode based display aging monitoring

Title (de)

Anzeigeanalterungsüberwachung auf Grundlage einer organischen lichtemittierenden Diode

Title (fr)

Surveillance du vieillissement d'un affichage à base de diodes électroluminescentes organiques

Publication

EP 2701140 B1 20151209 (EN)

Application

EP 12181595 A 20120823

Priority

EP 12181595 A 20120823

Abstract (en)

[origin: EP2701140A1] A multiple pixel display driving system and method. A display generator (208) displays a plurality of images on a multiple pixel display (202). An aging monitor (210) determines values of total electrical current consumed by the multiple pixel display while displaying the images (306), and determines electrical current value differences between baseline electrical currents total electrical currents associated with a test pattern image (308). A plurality of pixel aging characterization values indicating decreases in electrical current consumed by a pixels of the display is determined (316), and a display aging compensation matrix representing values by which pixel intensity values are to be compensated is determined (318) based on the pixel aging characterization values.

IPC 8 full level

G09G 3/32 (2006.01)

CPC (source: EP)

G09G 3/3233 (2013.01); **G09G 2320/0285** (2013.01); **G09G 2320/0295** (2013.01); **G09G 2320/045** (2013.01)

Cited by

CN112581903A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2701140 A1 20140226; **EP 2701140 A9 20140625**; **EP 2701140 B1 20151209**; CA 2824621 A1 20140223; CA 2824621 C 20161011

DOCDB simple family (application)

EP 12181595 A 20120823; CA 2824621 A 20130822