

Title (en)

System and method for compensation of non-uniformities in light emitting device displays

Title (de)

System und Verfahren zum Ausgleich von Ungleichförmigkeit in lichtemittierenden Vorrichtungsanzeigen

Title (fr)

Système et procédé pour compenser les non-uniformités dans des dispositifs d'affichage électroluminescents

Publication

EP 2453433 A2 20120516 (EN)

Application

EP 11189176 A 20111115

Priority

US 94660110 A 20101115

Abstract (en)

A system and method for operating a display at a constant luminance even as some of the pixels in the display are degraded over time. Each pixel in the display is configured to emit light when a voltage is supplied to the pixel's driving circuit, which causes a current to flow through a light emitting element. Degraded pixels are compensated by supplying their respective driving circuits with greater voltages. The display data is scaled by a compression factor less than one to reserve some voltage levels for compensating degraded pixels. As pixels become more degraded, and require additional compensation, the compression factor is decreased to reserve additional voltage levels for use in compensation.

IPC 8 full level

G09G 3/32 (2006.01)

CPC (source: CN EP)

G09G 3/3225 (2013.01 - CN); **G09G 3/3233** (2013.01 - CN EP); **G09G 3/3241** (2013.01 - EP); **G09G 2320/0271** (2013.01 - EP); **G09G 2320/0295** (2013.01 - EP); **G09G 2320/045** (2013.01 - EP); **G09G 2320/048** (2013.01 - EP); **G09G 2340/0428** (2013.01 - EP)

Cited by

CN104517568A; EP2881933A1; CN111462260A; US10679557B2; US10325552B2; US9183785B2; US10319744B2; US10957714B2

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2453433 A2 20120516; **EP 2453433 A3 20140618**; **EP 2453433 B1 20181010**; CN 102663976 A 20120912; CN 102663976 B 20160629; CN 105845083 A 20160810; CN 105845083 B 20180904

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