Title (en)

Method and circuit for compensation of aging effects in an organic light-emitting diode

Title (de)

Verfahren und Schaltungsanordnung zur Alterungskompensation einer organischen Leuchtdiode

Title (fr)

Méthode et circuit pour la compensation d'effets de vieillissement dans une diode électroluminescente organique

Publication

EP 1638070 A3 20061018 (DE)

Application

EP 05020442 A 20050920

Priority

DE 102004045871 A 20040920

Abstract (en)

[origin: EP1638070A2] The method involves storing the desired current/voltage value pairs for the desired characteristic curve for the OLED. A driver transistor is brought from saturation to linear operation during a measuring cycle, and the current through the diode is measured. Drive parameters are generated for driving the diode based on a comparison of the actual with the desired values for the current/voltage pairs. An independent claim is included for circuit for carrying out the method.

IPC 8 full level

G09G 3/32 (2006.01)

CPC (source: EP US)

G09G 3/3233 (2013.01 - EP US); G09G 2300/0842 (2013.01 - EP US); G09G 2320/029 (2013.01 - EP US); G09G 2320/043 (2013.01 - EP US)

Citation (search report)

- [A] EP 1282101 A1 20030205 - PIONEER CORP [JP]
- [A] US 6414661 B1 20020702 - SHEN ZILAN [US], et al
- [A] WO 2004025615 A1 20040325 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
- [A] WO 0127910 A1 20010419 - KONINKL PHILIPS ELECTRONICS NV [NL]
- [PA] DU-ZEN PENG ET AL: "P-134: Novel Pixel Compensation Circuit for AMOLED Display", 2005 SID INTERNATIONAL SYMPOSIUM. BOSTON, MA, MAY 24 - 27, 2005, SID INTERNATIONAL SYMPOSIUM, SAN JOSE, CA : SID, US, 24 May 2005 (2005-05-24), pages 814 - 817, XP007012559

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1638070 A2 20060322; **EP 1638070 A3 20061018**; **EP 1638070 B1 20080820**; DE 102004045871 A1 20060406; DE 102004045871 B4 20061123; US 2006214888 A1 20060928; US 7656370 B2 20100202

DOCDB simple family (application)

EP 05020442 A 20050920; DE 102004045871 A 20040920; US 23132905 A 20050920