

Title (en)

System and method of providing driving voltages to an RGBW display panel

Title (de)

System und Verfahren zur Bereitstellung von Ansteuerspannungen für eine RGBW-Anzeigetafel

Title (fr)

Système et procédé d'alimentation d'un panneau d'affichage RGBW en tensions de commande

Publication

**EP 1845508 A1 20071017 (EN)**

Application

**EP 06112633 A 20060413**

Priority

EP 06112633 A 20060413

Abstract (en)

A representative system comprises a data driver with a reference voltage generation circuit that is operative to provide reference voltages according to a white component signal (W) extracted from three color input signals (R,G,B), and a digital-to-analog (D/A) conversion unit that is operative to generate driving voltages according to the reference voltages, the three color input signals and the white component signal.

IPC 8 full level

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

CPC (source: EP)

**G09G 3/2003** (2013.01); **G09G 3/3225** (2013.01); **G09G 3/3611** (2013.01); **G09G 2300/0452** (2013.01); **G09G 2310/027** (2013.01); **G09G 2330/028** (2013.01); **G09G 2340/06** (2013.01)

Citation (applicant)

- EP 1298637 A2 20030402 - SAMSUNG ELECTRONICS CO LTD [KR]
- EP 0547603 A2 19930623 - TEXAS INSTRUMENTS INC [US]
- US 2004113875 A1 20040617 - MILLER MICHAEL E [US], et al
- US 6593934 B1 20030715 - LIAW MING-JIUN [TW], et al
- Y. MATSUEDA ET AL.: "6-bit AMOLED with RGB Adjustable Gamma Compensation LTPS TFT Circuit", SID 05 DIGEST, pages 1352 - 1355

Citation (search report)

- [X] EP 1298637 A2 20030402 - SAMSUNG ELECTRONICS CO LTD [KR]
- [A] EP 0547603 A2 19930623 - TEXAS INSTRUMENTS INC [US]
- [A] US 2004113875 A1 20040617 - MILLER MICHAEL E [US], et al
- [A] US 6593934 B1 20030715 - LIAW MING-JIUN [TW], et al
- [X] YOJIRO MATSUEDA ET AL.: "38.4: 6-bit AMOLED with RGB Adjustable Gamma Compensation LTPS TFT Circuit", 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 1352 - 1355, XP007012301

Cited by

KR20120064112A; EP2478517A4; US9799303B2

Designated contracting state (EPC)

DE FR GB IT NL

Designated extension state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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