

Title (en)

Plasma display panel (PDP) - improvement of dithering noise while displaying less video levels than required

Title (de)

Plasma Anzeige Paneel - Reduktion des Zitter-Rauschens bei Anzeige von weniger Video-Stufen als gefordert

Title (fr)

Ecran à plasma (PDP) - réduction du bruit de superposition pour affichage d'un signal avec un nombre réduit de niveau de gris

Publication

EP 1391867 A1 20040225 (EN)

Application

EP 03292006 A 20030811

Priority

- EP 03292006 A 20030811
- EP 02090298 A 20020823

Abstract (en)

In many cases it is not possible to reproduce enough video levels on a PDP due to timing issues or a specific solution against the false contour effect. In such cases dithering is used to render all required levels. In order to reduce the visibility of the dithering noise there is performed a common change of the sub-field organization together with a modification of the input video data through an appropriate transformation curve based on the human visual system luminance sensitivity (Weber-Fechner law). <IMAGE>

IPC 1-7

G09G 3/28

IPC 8 full level

G09G 3/20 (2006.01); **G09G 3/28** (2013.01)

CPC (source: EP)

G09G 3/2029 (2013.01); **G09G 3/2051** (2013.01); **G09G 3/288** (2013.01); **G09G 2320/0242** (2013.01); **G09G 2320/0261** (2013.01); **G09G 2320/0276** (2013.01)

Citation (search report)

- [Y] WO 0245062 A2 20020606 - THOMSON LICENSING SA [FR], et al
- [AD] WO 0171702 A2 20010927 - THOMSON LICENSING SA [FR], et al
- [Y] WEITBRUCH S ET AL: "BILDQUALITAETSVERBESSERUNG DURCH CODIERUNGSOPTIMIERUNG FUER PLASMA-TV", FERNSEH UND KINOTECHNIK, VDE VERLAG GMBH. BERLIN, DE, vol. 54, no. 8/9, August 2000 (2000-08-01), pages 520 - 522,524,526, XP001078093, ISSN: 0015-0142

Cited by

CN102318001A; US9299284B2; US9280943B2; WO2010092130A3; WO2006053171A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1391867 A1 20040225; EP 1391867 B1 20081015

DOCDB simple family (application)

EP 03292006 A 20030811