

Title (en)

VIDEO ENHANCEMENT AND DISPLAY POWER MANAGEMENT

Title (de)

VIDEOVERBESSERUNG UND ANZEIGE-POWER-MANAGEMENT

Title (fr)

AMÉLIORATION D'IMAGES VIDÉO ET GESTION D'ÉNERGIE DE DISPOSITIFS D'AFFICHAGE

Publication

EP 2174264 A4 20100616 (EN)

Application

EP 07810189 A 20070630

Priority

US 2007015436 W 20070630

Abstract (en)

[origin: WO2009005501A1] In visual display devices such as LCD devices with backlight illumination, the backlight typically consumes most of device battery power. In the interest of displaying a given pixel pattern at a minimized backlight level, the pattern can be transformed while maintaining image quality, with a transform determined from pixel luminance statistics. Aside from, or in addition to such minimizing, a transform also can be used for image enhancement, for a displayed image better to meet a visual perception quality. In either case, the transform preferably is constrained for enforcing one or several display attributes.

IPC 8 full level

G06K 9/40 (2006.01); **G09G 3/20** (2006.01); **G09G 3/36** (2006.01)

CPC (source: EP)

G09G 3/3406 (2013.01); **G09G 3/3611** (2013.01); **G09G 2320/0247** (2013.01); **G09G 2320/0271** (2013.01); **G09G 2320/0646** (2013.01); **G09G 2320/0653** (2013.01); **G09G 2320/066** (2013.01); **G09G 2320/0666** (2013.01); **G09G 2330/021** (2013.01); **G09G 2340/16** (2013.01); **G09G 2360/144** (2013.01); **G09G 2360/16** (2013.01)

Citation (search report)

- [X] US 2006139270 A1 20060629 - HONG HEE J [KR], et al
- [X] US 2007001997 A1 20070104 - KIM SEONG G [KR], et al
- [X] US 2005104842 A1 20050519 - BAIK SEONG H [KR]
- [I] US 2001033260 A1 20011025 - NISHITANI SHIGEYUKI [JP], et al
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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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

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DOCDB simple family (application)

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