

Title (en)

ACTIVE FRAME SYSTEM FOR AMBIENT LIGHTING USING A VIDEO DISPLAY AS A SIGNAL SOURCE

Title (de)

AKTIVRAHMENSYSTEM FÜR UMGEBUNGSBELEUCHTUNG ANHAND EINER VIDEOANZEIGE ALS SIGNALQUELLE

Title (fr)

SYSTEME DE CADRE ACTIF POUR ECLAIRAGE AMBIANT AU MOYEN D'UN AFFICHEUR VIDEO EN TANT QUE SOURCE DE SIGNAL

Publication

EP 1763700 A1 20070321 (EN)

Application

EP 05754832 A 20050627

Priority

- IB 2005052125 W 20050627
- US 58420004 P 20040630
- US 63645304 P 20041216

Abstract (en)

[origin: WO2006003604A1] Active diffuser frame system (A) for a video display (D) provides ambient lighting in viewer object mode and relies on real-time video input only, with no separate lighting script required. The system uses a controllable light source, and multiple inputs to improve realism and fidelity. Video inputs include actual display light; sensing of display light; and the video display signal. The frame can include a light modulator, or a goniophotometric or goniochromatic element to change character (intensity, color) of ambient light as a function of viewing angles, or a photoluminescent emitter for new chromaticities outside the display color gamut. The frame can split light between the viewer and the frame input, and can derive an added video signal to drive selected display pixels to boost output of display light into the frame.

IPC 8 full level

G02F 1/00 (2006.01); **H01J 29/89** (2006.01); **H04N 5/645** (2006.01); **H05B 37/00** (2006.01)

CPC (source: EP KR US)

H01J 29/89 (2013.01 - KR); **H04N 5/66** (2013.01 - KR); **H04N 7/015** (2013.01 - KR); **H04N 21/42202** (2013.01 - EP US); **H04N 21/4532** (2013.01 - EP); **H05B 47/11** (2020.01 - EP US); **H05B 47/12** (2020.01 - EP US); **H04N 5/58** (2013.01 - EP); **H04N 5/64** (2013.01 - EP); **Y02B 20/40** (2013.01 - EP)

Citation (search report)

See references of WO 2006003604A1

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2006003604 A1 20060112; EP 1763700 A1 20070321; JP 2008505350 A 20080221; KR 20070037584 A 20070405

DOCDB simple family (application)

IB 2005052125 W 20050627; EP 05754832 A 20050627; JP 2007518784 A 20050627; KR 20067027397 A 20061227