

Title (en)  
RAPID IMAGE RENDERING ON DUAL-MODULATOR DISPLAYS

Title (de)  
SCHNELLE BILDWIEDERGABE AUF DOPPELMODULATOR-DISPLAYS

Title (fr)  
RENDU D'IMAGE RAPIDE SUR DES ECRANS D'AFFICHAGE A DOUBLE MODULATEUR

Publication  
**EP 1779362 A4 20090812 (EN)**

Application  
**EP 05748546 A 20050527**

Priority  
• CA 2005000807 W 20050527  
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Abstract (en)  
[origin: WO2006010244A1] Apparatus and methods are provided that employ one or more of a variety of techniques for reducing the time required to display high resolution images on a high dynamic range display having a light source layer and a display layer. In one technique, the image resolution is reduced, an effective luminance pattern is determined for the reduced resolution image, and the resolution of the effective luminance pattern is then increased to the resolution of the display layer. In another technique, the light source layer's point spread function is decomposed into a plurality of components, and an effective luminance pattern is determined for each component. The effective luminance patterns are then combined to produce a total effective luminance pattern. Additional image display time reduction techniques are provided.

IPC 8 full level  
**G09F 9/33** (2006.01); **G09F 9/35** (2006.01); **G09G 3/22** (2006.01); **G09G 3/32** (2006.01)

CPC (source: EP KR)  
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**G09G 3/3611** (2013.01 - KR); **G09G 3/3406** (2013.01 - EP); **G09G 3/3611** (2013.01 - EP); **G09G 2320/0646** (2013.01 - EP KR)

Citation (search report)  
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• [XA] US 2003090455 A1 20030515 - DALY SCOTT J [US]  
• [X] SEETZEN H ET AL: "54.2: A High Dynamic Range Display Using Low and High Resolution Modulators", 2003 SID INTERNATIONAL SYMPOSIUM DIGEST OF TECHNICAL PAPERS. BALTIMORE, MD, MAY 20 - 22, 2003; [SID INTERNATIONAL SYMPOSIUM DIGEST OF TECHNICAL PAPERS], SAN JOSE, CA : SID, US, vol. XXXIV, no. 1, 20 May 2003 (2003-05-20), pages 1450 - 1453, XP007008386  
• See references of WO 2006010244A1

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**WO 2006010244 A1 20060202**; CA 2572968 A1 20060202; CA 2572968 C 20140408; CA 2840548 A1 20060202; CA 2840548 C 20180313; CA 2992935 A1 20060202; CA 2992935 C 20190702; CA 3043550 A1 20060202; CA 3043550 C 20200915; CN 100507988 C 20090701; CN 101010712 A 20070801; CN 101266758 A 20080917; CN 101266758 B 20101117; DK 1779362 T3 20160627; EP 1779362 A1 20070502; EP 1779362 A4 20090812; EP 1779362 B1 20160420; ES 2575929 T3 20160704; HK 1108756 A1 20080516; JP 2008507735 A 20080313; JP 2014056240 A 20140327; JP 2015118384 A 20150625; JP 5419352 B2 20140219; JP 5973403 B2 20160823; JP 6163505 B2 20170712; KR 101121131 B1 20120320; KR 20070049143 A 20070510

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