

Title (en)  
LCD BACKLIGHTING WITH LED PHOSPHORS

Title (de)  
LCD-HINTERGRUNDBELEUCHTUNG MIT LED-LEUCHTSTOFFEN

Title (fr)  
RÉTROÉCLAIRAGE DE DISPOSITIF D'AFFICHAGE À CRISTAUX LIQUIDES COMPORTANT UNE COMBINAISON DEL-LUMINOPHORES

Publication  
**EP 2179323 A1 20100428 (DE)**

Application  
**EP 08774036 A 20080723**

Priority

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- DE 102007039260 A 20070820

Abstract (en)  
[origin: WO2009024229A1] The invention relates to a liquid crystal display equipped with a backlighting system with a white light source, which contains a semiconductor diode and a phosphor layer consisting of a combination of at least two phosphors, wherein at least one phosphor emits red light and at least one phosphor emits green light, and a production process therefor.

IPC 8 full level  
**G02F 1/13357** (2006.01); **C09K 11/77** (2006.01); **H05B 33/14** (2006.01)

CPC (source: EP US)  
**C09K 11/685** (2013.01 - EP US); **C09K 11/77342** (2021.01 - EP US); **C09K 11/7774** (2013.01 - EP US); **C09K 11/7794** (2013.01 - EP US); **G02F 1/133603** (2013.01 - EP US); **H05B 33/14** (2013.01 - EP US); **G02B 6/0073** (2013.01 - EP US); **G02F 1/133614** (2021.01 - EP US); **Y02B 20/00** (2013.01 - EP US); **Y10T 29/49002** (2015.01 - EP US)

Citation (search report)  
See references of WO 2009024229A1

Citation (examination)

- WANG Z ET AL: "A Potential Red-Emitting Phosphor for LED Solid-State Lighting", ELECTROCHEMICAL AND SOLID-STATE LETTERS, IEEE SERVICE CENTER, PISCATAWAY, NJ, US, vol. 8, no. 4, 23 February 2005 (2005-02-23), pages H33 - H35, XP002443658, ISSN: 1099-0062, DOI: DOI:10.1149/1.1865672
- WANG ET AL: "Luminescence investigation of Eu<sup>3+</sup> activated double molybdates red phosphors with scheelite structure", JOURNAL OF ALLOYS AND COMPOUNDS, ELSEVIER SEQUOIA, LAUSANNE, CH, vol. 432, no. 1-2, 6 March 2007 (2007-03-06), pages 308 - 312, XP005916553, ISSN: 0925-8388, DOI: DOI:10.1016/J.JALLCOM.2006.06.008

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