Title: RED LINE EMITTING PHOSPHORS FOR USE IN LED APPLICATIONS

Abstract: Light emitting apparatuses including backlights having a light source and a phosphor material including a complex fluoride phosphor activated with Mn⁺⁺, which may include at least one of (A) A₁ₓ[MF₆][Mn⁺⁺]; (B) A₁ₓ[MF₆][Mn⁺⁺]; (C) Zn₁₋ₓ[MF₆][Mn⁺⁺]; (D) A₁ₓ[InF₆][Mn⁺⁺]; (E) A₁ₓ[InF₆][Mn⁺⁺]; (F) A₁ₓ[MF₆][Mn⁺⁺]; (G) B₅₋ₓ[ZrF₁₆₋ₓ][Mn⁺⁺] or (H) A₁ₓ[ZrF₁₆₋ₓ][Mn⁺⁺].
Published:

— with international search report

— with information concerning one or more priority claims

considered void

(88) Date of publication of the international search report:

15 November 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

INV. C09K11/08 C09KU/61

According to International Patent Classification (IPC) or/and national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
C09K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database consulted during the international search (name of database and, where practical, search terms used)
EPO-Internal, INSPEC, COMPENDEX, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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<th>Relevant to claim No</th>
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<td>page 944 - page 946; figure 4; table 1</td>
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D. Further documents are listed in the continuation of Box C

X See patent family annex

* Special categories of cited documents
   - "A" document defining the general state of the art which is not considered to be of particular relevance
   - "E" earlier document but published on or after the international filing date
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   - "O" document referring to an oral disclosure, use, exhibition or other means
   - "P" document published prior to the international filing date but later than the priority date claimed

Date of the actual completion of the International search
22 August 2007

Date of mailing of the international search report
30/08/2007

Name and mailing address of the ISA/Authorized officer
Wengeler, Heinz

Form PCT/ISA/21 (second sheet) (April 2005)
## INTERNATIONAL SEARCH REPORT

### Information on patent family members

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*Fold: PCT/ISA/210 (patent family annex) (April 2006)*