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(54) **Phosphor thin film and its fabrication process and el panel**

(57) The invention has for its object to provide a phosphor thin film which can dispense with any filter and has satisfactory color purity, is particularly well fit for RGB full-color ELs, and simplifies a full-color EL panel production process, thereby providing a phosphor thin film which is less susceptible to luminance variations and can be produced in improved yields and so at lower

costs and its fabrication process as well as an EL panel. This is achieved by the provision of a phosphor thin film comprising a matrix material containing as a main component an alkali earth aluminate that is an oxide, with sulfur added to the matrix material, and further containing an element that provides a luminescence center.



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EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A, D	EP 0 740 490 A (MITSUI MINING & SMELTING CO ; SHARP KK (JP)) 30 October 1996 (1996-10-30) * the whole document * -----	1-5	C09K11/80 H05B33/14
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
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The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	16 September 2003	Drouot-Onillon, M-C	
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 11 5713

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

专利名称(译)	磷光体薄膜及其制造工艺和el面板		
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其他公开文献	EP1170351A2		
外部链接	Espacenet		

摘要(译)

本发明的目的是提供一种磷光体薄膜，它可以省去任何过滤器并具有令人满意的色纯度，特别适用于RGB全彩色EIs，并简化了全色EL面板的生产过程，从而提供了一种荧光粉。薄膜不易受到亮度变化的影响，并且可以以更低的成本及其制造工艺以及EL面板以更高的产量生产。这是通过提供磷光体薄膜来实现的，该磷光体薄膜包含基质材料，该基质材料含有作为氧化物的碱土金属铝酸盐作为主要成分，硫添加到基质材料中，并且还含有提供发光中心的元素。

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DOCUMENTS CONSIDERED TO BE RELEVANT				
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			C09K H05B	
The present search report has been drawn up for all claims				
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<small> C: Publication category of the document D: Document category of the document E: Priority of the document F: Number of the document G: Date of the document H: Date of the application I: Document cited for other reasons J: Number of the same patent family, corresponding document K: Intermediate document </small>				