

Title (en)  
METHOD FOR MANUFACTURING FLUORESCENT LAMP AND PHOSPHOR SUSPENSION

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINER LEUCHTSTOFFLAMPE UND LEUCHTSTOFFSUSPENSION

Title (fr)  
PROCEDE DE FABRICATION DE LAMPE FLUORESCENTE ET DE SUSPENSION DE PHOSPHORE

Publication  
**EP 1115144 A4 20030827 (EN)**

Application  
**EP 00927810 A 20000519**

Priority  
• JP 0003205 W 20000519  
• JP 14450199 A 19990525

Abstract (en)  
[origin: EP1115144A1] In a phosphor lamp manufacturing method, a phosphor suspension that is not prone to deterioration is prepared, and applied to an inner surface of a glass bulb. Then, the phosphor suspension is dried and baked to form a phosphor film. In addition to a phosphor, metal oxide used as a bonding agent, pure water used as a dispersant and ammonia used as a pH regulator are mixed into the phosphor suspension, and pH is regulated in a range of no less than pH8 and no more than pH10. Aluminum oxide particles with a specific surface area of no less than 1.5 m<sup>2</sup>/g and no more than 30 m<sup>2</sup>/g are used as the metal oxide. This makes the phosphor suspension less prone to deterioration and enables a high film strength of 1.5 gf/cm<sup>2</sup> or more to be obtained even if the phosphor film is formed using a phosphor suspension that has been left for a long period after mixing. <IMAGE>

IPC 1-7  
**H01J 61/46; C09K 11/02**

IPC 8 full level  
**H01J 61/46** (2006.01)

CPC (source: EP)  
**H01J 61/46** (2013.01)

Citation (search report)  
• [A] EP 0372560 A2 19900613 - KASEI OPTONIX [JP]  
• [A] DATABASE WPI Section Ch Week 197915, Derwent World Patents Index; Class L03, AN 1979-28558B, XP002246022  
• [A] DATABASE WPI Section Ch Week 199842, Derwent World Patents Index; Class L03, AN 1998-489619, XP002246023  
• See references of WO 0072356A1

Cited by  
US6885144B2; WO2007013688A3

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 1115144 A1 20010711; EP 1115144 A4 20030827**; CN 1288705 C 20061206; CN 1319249 A 20011024; JP 2000340181 A 20001208; JP 3430971 B2 20030728; WO 0072356 A1 20001130

DOCDB simple family (application)  
**EP 00927810 A 20000519**; CN 00801525 A 20000519; JP 0003205 W 20000519; JP 14450199 A 19990525