

Title (en)

Fluorescent lamp comprising a protective film, and lighting fixture therewith

Title (de)

Leuchtstofflampe mit einer Schutzschicht, und damit versehene Leuchte

Title (fr)

Lampe fluorescente ayant une couche protectrice, et luminaire l'utilisant

Publication

EP 1798754 A2 20070620 (EN)

Application

EP 06256403 A 20061215

Priority

- JP 2005363550 A 20051216
- JP 2006163923 A 20060613

Abstract (en)

There is provided a fluorescent lamp (10) comprising a glass tube (1) filled therein with an electric discharging medium, a protective film (4) formed on an inner surface of the glass tube, a phosphor layer (5) formed on an upper surface of the protective film, and electrode means (3) attached to the glass tube. The protective film comprises, as a major component, SiO₂ fine particles exhibiting not more than 0.3 at a temperature of 600°C in integrated value of absorbance spectrum of hydroxyl group absorption band in wave number ranging from 2500-3800 cm⁻¹ as measured by infrared spectroscopy on the assumption that the integrated value of absorbance spectrum of hydroxyl group absorption band at a temperature of 100°C is 1. Alternatively, the SiO₂ fine particles contain carbon at a content confined within the range of 0.09% to 0.3% by mass. Alternatively, the SiO₂ fine particles exhibit a spectrum having peaks at a wave number ranging from 590 to 610 cm⁻¹ and at a wave number ranging from 490 to 500 cm⁻¹ as measured by laser Raman spectroscopy and at a temperature of 700°C.

IPC 8 full level

H01J 61/35 (2006.01); **H01J 61/72** (2006.01)

CPC (source: EP)

H01J 61/35 (2013.01); **H01J 61/72** (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1798754 A2 20070620; **EP 1798754 A3 20120704**; CN 101017765 A 20070815; CN 101017765 B 20100929

DOCDB simple family (application)

EP 06256403 A 20061215; CN 200610168152 A 20061215