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(54) **Fluorescent lamp and lighting appliance using thereof**

(57) A fluorescent lamp (100) comprises a glass tube (101) having a glass tube- diameter of 12 - 20 mm which is formed on an endless shape as a whole by being partially folded, a protective coating (102) formed on the inner wall of the glass tube (101), the coating (102) containing a mixture of large particles with a mean particle size not less than 1.0 μm and fine particles with a mean particle size in the range of 10 to 100 nm, a phosphor coating (103) formed on the protective coating (102), a pair of electrodes (104) mounted in both ends (101d) of the glass tube (101), and a discharge medium filled in the glass tube (101).

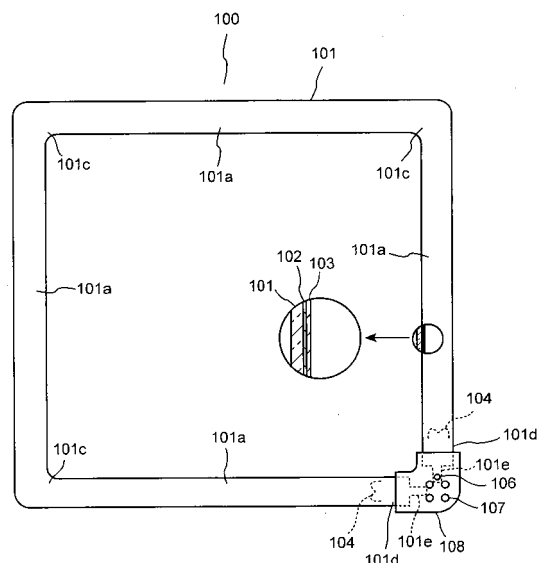


FIG. 1



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EUROPEAN SEARCH REPORT

Application Number
EP 04 02 2833

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1 The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 26 October 2007	Examiner VAN DEN BULCKE, E
CATEGORY OF CITED DOCUMENTS 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 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			

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Place of search		Date of completion of the search	Examiner
The Hague		26 October 2007	VAN DEN BULCKE, E
CATEGORY OF CITED DOCUMENTS 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 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			

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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-8, 11

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



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**LACK OF UNITY OF INVENTION
SHEET B**

Application Number
EP 04 02 2833

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-8,11

lamp comprising glass tube with protective coating on the inner wall of the tube;
coating contains a mixture of large - and fine particles of different sizes;
a phosphor coating formed on the protective coating.

2. claims: 9,10

lamp comprising glass tube with phosphor layer coated on the inner wall of the glass tube

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

EP 04 02 2833

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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26-10-2007

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82