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(11)

**EP 0 962 691 A3**

(12)

**EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**25.10.2000 Bulletin 2000/43**

(51) Int Cl.7: **F21H 1/02**

(43) Date of publication A2:  
**08.12.1999 Bulletin 1999/49**

(21) Application number: **99304169.8**

(22) Date of filing: **28.05.1999**

(84) Designated Contracting States:  
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE**  
Designated Extension States:  
**AL LT LV MK RO SI**

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(30) Priority: **06.06.1998 GB 9812110**

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(54) **Yttrium oxide based gas mantle**

(57) The present invention relates to incandescent pre-formed low-pressure gas mantles useful for fixed fuel-burning lanterns, such as stationary lamp posts or patio lights (typically at gas pressures of 2.7KPa). The pre-formed low-pressure gas mantle has a body comprising: (A) 77.1 to 85.3 mol% yttrium oxide as the predominant

metal oxide, (B) 1.4 to 3.1 mol% of at least one lanthanide oxide, (C) 2.2 to 5.0 mol% of at least one of magnesium oxide and aluminium oxide, and (D) 11.1 to 14.8 mol% of calcium oxide, based on the total molar content of (A), (B), (C) and (D). Such a mantle is non-radioactive, durable and provides good illumination.

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# EUROPEAN SEARCH REPORT

Application Number  
EP 99 30 4169

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
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			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			F21H
The present search report has been drawn up for all claims			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>4 September 2000</b>	Examiner <b>Cosnard, D</b>
<p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>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</p> <p>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</p> <p>&amp; : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03.82 (P4/C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
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EP 99 30 4169

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