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(72) Inventors:  
• **Darmanin, Rosemarie  
Zabbar ZBR 04 (MT)**  
• **Borg, Adrian M.  
B'kara BKR 06 (MT)**

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(74) Representative: **Pearce, Anthony Richmond  
MARKS & CLERK,  
Alpha Tower,  
Suffolk Street Queensway  
Birmingham B1 1TT (GB)**

(71) Applicant: **Levelrecall Limited  
Bubbenhall, Warwickshire CV8 3BT (GB)**

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