

Title (en)

Yttrium oxide based gas mantle

Title (de)

Yttriumoxid enthaltender Gasglühkörper

Title (fr)

Manchon pour lampe à gaz contenant de l'oxyde d'yttrium

Publication

**EP 0962691 A3 20001025 (EN)**

Application

**EP 99304169 A 19990528**

Priority

GB 9812110 A 19980606

Abstract (en)

[origin: EP0962691A2] 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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