

Title (en)

Lamp having a glass bulb with a high silicic-acid content.

Title (de)

Lampe mit einem Kolben aus hochkieselsäurehaltigem Glas.

Title (fr)

Lampe à ampoule de verre en haute teneur d'acide silicique.

Publication

**EP 0226978 A2 19870701 (DE)**

Application

**EP 86117330 A 19861212**

Priority

DE 3544825 A 19851218

Abstract (en)

[origin: US4749902A] To improve tightness of a pinch or press seal (2a; 13a, 13b) between a molybdenum foil and quartz or similar hard glass of an electric lamp, typically a halogen incandescent lamp or metal halide discharge lamp, an intermediate melt glass layer in form of a strip is applied to the sealing foil, which has the following main components: SiO<sub>2</sub>: 60-70% Al<sub>2</sub>O<sub>3</sub>: 3-20% K<sub>2</sub>O: 12-18, all percentages by weight, the glass being, except for trace contaminants, free from Na<sub>2</sub>O. In a preferred form, the main components are: SiO<sub>2</sub>: 66% Al<sub>2</sub>O<sub>3</sub>: 18% K<sub>2</sub>O: 15%, all percentages by weight.

Abstract (de)

Lampe (1) mit Kolben (2) aus hochkieselsäurehaltigem Glas und Folieneinschmelzung, wobei zwischen Folie (6; 7) und Kolbenglas eine Zwischenschicht (10; 11) aus Lotglas vorhanden ist. Das Lotglas weist folgende Hauptbestandteile auf: SiO<sub>2</sub> 60 - 70 Gew.-% Al<sub>2</sub>O<sub>3</sub> 3 - 20 Gew.-% K<sub>2</sub>O 12 - 18 Gew.-%

IPC 1-7

**H01J 5/38; H01J 61/36; H01K 1/38**

IPC 8 full level

**C03C 3/083** (2006.01); **H01J 5/38** (2006.01); **H01J 61/30** (2006.01); **H01J 61/36** (2006.01); **H01K 1/32** (2006.01); **H01K 1/38** (2006.01)

CPC (source: EP US)

**H01J 5/38** (2013.01 - EP US); **H01J 61/368** (2013.01 - EP US); **H01K 1/38** (2013.01 - EP US)

Cited by

US8308519B2; US9567463B2; WO2009030264A1; EP2574637A1; WO2013045268A2; WO2023285136A1; WO2023285137A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 0226978 A2 19870701; EP 0226978 A3 19890614; EP 0226978 B1 19911227**; DE 3544825 A1 19870619; DE 3683141 D1 19920206; JP S62147650 A 19870701; US 4749902 A 19880607

DOCDB simple family (application)

**EP 86117330 A 19861212**; DE 3544825 A 19851218; DE 3683141 T 19861212; JP 26207886 A 19861105; US 93755286 A 19861203