Title (en)

ELECTRIC LAMP

Publication

EP 0520248 A3 19930210 (DE)

Application

EP 92109848 A 19920611

Priority

DE 4120797 A 19910624

Abstract (en)

[origin: EP0520248A2] Because of the heavy thermal stress, high-load electric lamps have a quartz-glass lamp bulb. During operation, these lamps produce high-energy UV radiation which is transmitted almost unattenuated by the quartz-glass vessel and which is in many cases undesirable and even harmful. The novel lamps therefore have on their lamp bulb (1) a UV-absorbing coating (6) containing CeF3 and Al2O3.SiO2 in a ratio by weight of 2:1. To produce the coating, a suspension of CeF3 and Al2O3.SiO2 in industrial alcohol is prepared and finely ground. After further dilution with industrial alcohol and possibly adding nitrocellulose as a binder, the suspension is applied to the lamp bulb (1), dried and then fired. <IMAGE>

IPC 1-7

H01J 61/40; H01J 9/20

IPC 8 full level

C03C 17/23 (2006.01); **H01J 9/20** (2006.01); **H01J 61/35** (2006.01); **H01J 61/40** (2006.01); **H01K 1/32** (2006.01); **H01K 3/00** (2006.01)

CPC (source: EP US)

H01J 61/40 (2013.01 - EP US)

Citation (search report)

- [AD] US 3531677 A 19700929 - LOUGHRIDGE FREDERICK A
- [A] PATENT ABSTRACTS OF JAPAN, Band 13, Nr. 2 (E-700), 6. Januar 1989; & JP-A-63 213 253 (USHIO INC.) 06-09-1988

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EP 92109848 A 19920611; CA 2064330 A 19920327; DE 4120797 A 19910624; DE 59201710 T 19920611; JP 18609192 A 19920619; US 89594592 A 19920609