

Title (en)

GAS DISCHARGE LAMP WITH BUILT-IN RESISTANCE TO COLOR CENTER FORMATION IN ULTRAVIOLET-TRANSMISSIVE WINDOW

Publication

EP 0301560 A3 19900801 (EN)

Application

EP 88112302 A 19880729

Priority

US 7975287 A 19870730

Abstract (en)

[origin: EP0301560A2] A gas discharge lamp (10) for emitting vacuum UV radiation, comprising a lamp body filled at low pressure with a gas capable of emitting radiation in the vacuum UV range (e.g., argon), electrodes (14, 16) within the lamp body for passing an electric field across the gas, a crystalline window (28) (e.g., lithium fluoride) in the body for transmitting the vacuum UV radiation emitted by the gas, wherein the crystalline window is constructed of a material that, when exposed to the vacuum UV radiation emitted by the gas, forms color centers that block transmission of the radiation through the window, and a bleaching element located within the lamp body for emitting color-center bleaching radiation in response to the electric field without degrading emission of the vacuum UV radiation, the bleaching radiation being in a frequency band (e.g., 5-6 eV) lower than the vacuum UV radiation.

IPC 1-7

H01J 61/02

IPC 8 full level

H01J 61/30 (2006.01); **H01J 61/02** (2006.01); **H01J 61/067** (2006.01); **H01J 61/76** (2006.01)

CPC (source: EP)

H01J 61/02 (2013.01)

Citation (search report)

- [X] SU 1108534 A1 19840815 - KHUZMIEVA BELLA KH [SU], et al
- [A] US 3374383 A 19680319 - BERGEN GEORGE J, et al
- [X] SOVIET INVENTIONS ILLUSTRATED, week X08, March 31, 1976 DERWENT PUBLICATIONS LTD., London, UK, page SU-R4-2 Abstr. no. 1976-14365X/08, & SU-A1 469 166 (SHISHATSKAYA et al.)

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

EP 0301560 A2 19890201; **EP 0301560 A3 19900801**; CA 1281063 C 19910305; JP S6457561 A 19890303

DOCDB simple family (application)

EP 88112302 A 19880729; CA 573416 A 19880729; JP 19048888 A 19880729