

Title (en)  
BIASING SYSTEM FOR REDUCING ION LOSS IN LAMPS

Publication  
**EP 0449639 A3 19920506 (EN)**

Application  
**EP 91302776 A 19910328**

Priority  
US 50088690 A 19900329

Abstract (en)  
[origin: EP0449639A2] A high intensity discharge lamp system includes an AC supply for a chamber within which a plasma conductor is created to generate light. In order to confine charged particles within the chamber and to inhibit migration and loss thereof, a DC circuit taps power from the AC supply and produces a DC potential which is applied to relatively large-surface components in the vicinity of the plasma chamber. Properly polarized, the large-surface components, such as a reflector and a conductive housing, refractor or door, produces electric fields which inhibit migration of the charged particles. The result is improved color and light output as well as increased lamp life.

IPC 1-7  
**H01J 61/24**

IPC 8 full level  
**F21V 3/04** (2006.01); **H01J 61/10** (2006.01); **H01J 61/24** (2006.01); **H01J 61/56** (2006.01); **H05B 41/19** (2006.01); **H05B 41/231** (2006.01)

CPC (source: EP)  
**H01J 61/10** (2013.01); **H01J 61/24** (2013.01); **H05B 41/19** (2013.01)

Citation (search report)

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- [A] PATENT ABSTRACTS OF JAPAN vol. 3, no. 154 (M-85)18 December 1979 & JP-A-54 132 368 ( MITSUBISHI DENKI K.K. ) 15 October 1979
- [A] PATENT ABSTRACTS OF JAPAN vol. 13, no. 544 (E-855)6 December 1989 & JP-A-1 225 098 ( TOSHIBA CORP ) 7 September 1989

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DOCDB simple family (application)  
**EP 91302776 A 19910328**; CA 2037886 A 19910308; DE 69123071 T 19910328; JP 9125891 A 19910329