

Title (en)

Biasing system for reducing ion loss in lamps.

Title (de)

Vorspannungssystem zur Verminderung des Ionenverlustes in Lampen.

Title (fr)

Système de polarisation pour réduire la perte d'ions dans les lampes.

Publication

**EP 0449639 A2 19911002 (EN)**

Application

**EP 91302776 A 19910328**

Priority

US 50088690 A 19900329

Abstract (en)

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

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CPC (source: EP)

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