

Title (en)

METHOD FOR OPERATING A LIGHTING SYSTEM AND SUITABLE LIGHTING SYSTEM THEREFOR

Title (de)

VERFAHREN ZUM BETREIBEN EINES BELEUCHTUNGSSYSTEMS UND DAFÜR GEEIGNETES BELEUCHTUNGSSYSTEM

Title (fr)

PROCEDE PERMETTANT DE FAIRE FONCTIONNER UN SYSTEME D'ECLAIRAGE ET SYSTEME D'ECLAIRAGE ASSOCIE

Publication

**EP 0839436 B1 20000920 (DE)**

Application

**EP 96924752 A 19960718**

Priority

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- DE 19526211 A 19950718

Abstract (en)

[origin: DE19526211A1] The invention pertains to a method for operating a lighting system with an incoherently-emitting radiation source, in particular a discharge lamp (14) that emits UV, IR or visible-range radiation, by means of dielectrically inhibited discharge, and to a lighting system suitable therefor. The electrodes (16-20), which are arranged side by side and separated from each other and the interior of the discharge vessel (15) by dielectric material (21), are alternately connected to the two poles (23, 24) of a voltage source (27). In operation the voltage source (27) supplies a series of voltage pulses separated by quiescent periods. According to the invention, this produces inside the discharge vessel (15) a spatial discharge (26) which in the regions between electrodes of different polarity (16, 17; 17, 18; 18, 19; 19, 20) is at a distance from the surface of the inside wall of the discharge vessel (15). Substantial advantages are less stress on the wall of the discharge vessel and greater efficiency in generating radiation.

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**US 5994849 A 19991130**; CA 2224362 A1 19970206; CA 2224362 C 20040413; CN 1113582 C 20030702; CN 1191061 A 19980819; DE 19526211 A1 19970123; DE 59605924 D1 20001026; EP 0839436 A1 19980506; EP 0839436 B1 20000920; HK 1015114 A1 19991008; HU 223365 B1 20040628; HU P0004552 A2 20010428; HU P0004552 A3 20030728; IN 190521 B 20030809; JP 3856473 B2 20061213; JP H11509362 A 19990817; KR 100363751 B1 20030219; KR 19990028648 A 19990415; WO 9704625 A1 19970206

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