

Title (en)

High-pressure discharge lamp having a single pinch.

Title (de)

Einseitig gequetschte Hochdruckentladungslampe.

Title (fr)

Lampe à décharge à haute pression munie d'un pincement unique.

Publication

EP 0269957 A2 19880608 (DE)

Application

EP 87117106 A 19871119

Priority

DE 3641045 A 19861201

Abstract (en)

[origin: US4851735A] To improve the heat distribution of single-ended metal-halide high-pressure discharge lamps, and particularly lamps in which the fill is apt to attack a helically wound electrode (4) facing a similar electrode (5) within a discharge vessel (2), the end portions of the electrodes have a mandrel or pin element (17) located within a plurality of coiled windings (16), such that the coiled windings of the electrodes surround the mandrel or pin elements (17). Preferably, the mandrel is made of thorium dioxide-doped tungsten, and the electrodes includes an electrode shaft portion (15) pinch-sealed through the quartz-glass vessel. The shaft portions are unitary with the coiled windings (16) and are made of undoped, essentially pure tungsten. The mandrel (17) may be retained within the coiled filament portion (16) by clamping or by being end-melted thereto, and preferably projects beyond the helical windings at the side remote from the discharge to improve the overall temperature distribution within the discharge vessel (2).

Abstract (de)

Einseitig gequetschte Hochdruckentladungslampe kleiner Leistung, bei der die beiden Elektroden (4, 5) aus geraden, zueinander parallelen Schäften (15) und an den Schäften (15) angeformten Wendelteilen (16) bestehen. Die Wendelteile sind jeweils gegenüber dem Schaft (15) um etwa 90° abgewinkelt und stehen sich gegenüber. Jedes Wendelteil (16) ist mit einem Kernstift (17) ausgestattet. Figur 2.

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