

Title (en)

High-pressure gas discharge lamp.

Title (de)

Hochdruckgasentladungslampe.

Title (fr)

Lampe à décharge électrique à haute pression.

Publication

EP 0581354 A1 19940202

Application

EP 93201980 A 19930707

Priority

- EP 93201980 A 19930707
- EP 92202132 A 19920713

Abstract (en)

The high pressure discharge lamp comprises a sealed lamp vessel (1) having a quartz glass wall (2) enclosing a discharge space (3). Metal foils (4) are embedded in the wall, connected to electrode rods (6) have a circumferential coating (7) of quartz glass at least adjacent the metal foil. The coating has a firm adherence to the rod. It may comprise in its boundary (7') adjoining the rod/coating interface an addition, e.g. selected from a group comprising thorium, yttrium, hafnium. Alternatively, rhenium may be present at the surface of the rod, giving an interlocking configuration of the rod and its coating. Due to a strong adherence of the quartz glass to the rod upon completing a seal, and due to large differences in expansion coefficients, the coating is torn off from the wall so as to be mechanically loose from the wall. The coating prevents premature failure of the lamp caused by leakage. <IMAGE>

IPC 1-7

H01J 61/36

IPC 8 full level

H01J 61/36 (2006.01)

CPC (source: EP)

H01J 61/366 (2013.01)

Citation (search report)

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