

Title (en)

High pressure mercury vapour discharge lamp with reduced sensitivity to variations in operating parameters

Title (de)

Hochdruckquecksilberdampfentladungslampe mit verminderter Empfindlichkeit gegenüber den Änderungen von Betriebsparametern

Title (fr)

Lampe à décharge à vapeur de mercure à haute pression avec une sensibilité réduite aux variations des paramètres de fonctionnement

Publication

EP 1134776 A2 20010919 (EN)

Application

EP 00310129 A 20001115

Priority

US 44160199 A 19991117

Abstract (en)

A high pressure mercury vapor discharge lamp is provided. The lamp has a discharge vessel (3) formed from heat-resistant material. At least two electrodes (5) extend into the discharge vessel (3) and are electrically connected to external current supply leads (9). The lamp has a fill in the discharge vessel (3) which includes a noble gas, mercury and an additive composition of metal halides. This additive composition of metal halides comprises an alkali metal halide, wherein the alkali metal halide is a sodium halide, a cesium halide, or a mixture of sodium halide and cesium halide, at least one halide of a metal providing a line emission, at least one halide of a rare earth metal providing an emission in the purple spectral range, at least one halide of a rare earth metal providing an emission in the green spectral range. <IMAGE>

IPC 1-7

H01J 61/12; H01J 61/82

IPC 8 full level

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CPC (source: EP)

H01J 61/125 (2013.01); **H01J 61/827** (2013.01); **H01J 61/34** (2013.01)

Cited by

EP1680185A4; US7268495B2; US7786674B2; WO2006025027A3; WO2006078632A1; WO2006048830A3; US8564200B2; US9171712B2

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