

Title (en)

LOW PRESSURE MERCURY VAPOR DISCHARGE LAMP UNIT.

Title (de)

NIEDERDRUCKQUECKSILBER-DAMPFENTLADUNGSLAMPE.

Title (fr)

UNITE DE LAMPE A DECHARGE A VAPEUR DE MERCURE A FAIBLE PRESSION.

Publication

**EP 0079969 A4 19841107 (EN)**

Application

**EP 82901620 A 19820528**

Priority

- JP 8144181 A 19810528
- JP 11036981 A 19810715

Abstract (en)

[origin: WO8204373A1] Low pressure mercury vapor discharge lamp unit which is constructed to employ a high frequency inverter, have a quiescent time  $T_0$  in the range of  $0.5 \times 10^{-6}$  to  $10 \times 10^{-6}$ , generate a rectangular high frequency AC voltage having a frequency of more than 1kHz, and supply a high frequency voltage to a low pressure vapor discharge lamp sealed with mercury and a rare gas selected so that the ratio  $X/Y$  of the molar number  $Y$  of the mercury vapor to the molar number  $X$  of the rare gas is in the range of  $0.5 \times 10^{-2}$  to  $1.0 \times 10^{-4}$ . The moving moire of the lamp is suppressed so as to be reduced or eliminated, thereby largely improving the resonant radiation energy efficiency of the mercury.

IPC 1-7

**H05B 41/24**

IPC 8 full level

**H05B 41/392** (2006.01)

CPC (source: EP)

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Cited by

EP0435231A1; EP0729694A4; EP1304721A1; GB2134701A; AT383245B

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