

Title (en)  
LOW-PRESSURE MERCURY VAPOR DISCHARGE LAMP

Title (de)  
NIEDERDRUCK-QUECKSILBERDAMPF-ENTLADUNGSLAMPE

Title (fr)  
LAMPE A DECHARGE A VAPEUR DE MERCURE BASSE PRESSION

Publication  
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Application  
**EP 03712541 A 20030409**

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Abstract (en)  
[origin: WO03085695A2] Low-pressure mercury vapor discharge lamp has an at least partly substantially cylindrical discharge vessel (10) with a length L<sub>dv</sub> and with an internal diameter D<sub>in</sub>. The discharge vessel (10) encloses, in a gastight manner, a discharge space (13) provided with a inert gas mixture and with mercury. The discharge vessel (10) comprises discharge means (electrodes 20a; 20b) for maintaining a discharge in the discharge space (13). According to the invention, the ratio of the weight of mercury m<sub>Hg</sub> in the discharge vessel (10) to the product of the internal diameter D<sub>in</sub> and the length of the discharge vessel L<sub>dv</sub> is given by the relation: wherein C ( 0.01 (g/mm<sup>2</sup>. Preferably, 0.0005 ( C ( 0.005 (g/mm<sup>2</sup>. Preferably, the discharge vessel (10) contains less than 0.1 mg mercury. The discharge lamp according to the invention operates under unsaturated mercury conditions.

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