

Title (en)

MERCURY SHORT ARCHED LAMP WITH A CATHODE CONTAINING LANTHANUM OXIDE

Title (de)

QUECKSILBER-KURZBOGENLAMPE MIT LANTHANOXID-HALTIGER KATHODE

Title (fr)

LAMPE AU MERCURE A ARC COURT DOTEE D'UNE CATHODE CONTENANT DE L'OXYDE DE LANTHANE

Publication

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Application

**EP 03717130 A 20030305**

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Abstract (en)

[origin: WO03075311A1] The invention relates to a mercury short-arched-high pressure discharge lamp (1) which operates with direct-current, comprising a discharge vessel (2) having two necks (4) arranged in a diametrical manner opposite each other, wherein an anode (26) and a cathode (7), made respectively from tungsten, are melted in a gas-tight manner and said vessel is filled with mercury and at least one inert gas. According to the invention, the material of the cathode tip (11) contains, in addition to the tungsten, lanthanum oxide La<sub>2</sub>O<sub>3</sub> and the mercury content of the filling in the discharging vessel volume is at least 1 mg/cm<sup>3</sup> and at the most 6 mg/cm<sup>3</sup>.

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