

Title (en)

MERCURY-FREE HIGH-PRESSURE DISCHARGE LAMP WITH A REDUCED AMOUNT OF ZINC HALIDE

Title (de)

QUECKSILBERFREIE HOCHDRUCKENTLADUNGSLAMPE MIT REDUZIERTEM ZINKHALOGENIDANTEIL

Title (fr)

LAMPE À DÉCHARGE HAUTE PRESSION SANS MERCURE ET À TENEUR RÉDUITE EN HALOGÉNURES DE ZINC

Publication

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Application

**EP 10775785 A 20101029**

Priority

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Abstract (en)

[origin: WO2011057903A1] The invention relates to a high-pressure discharge lamp for vehicle headlights, comprising a discharge vessel (10) which is sealed in a gas-tight manner and which has a discharge chamber (106). Electrodes (11, 12) and a filling for producing a gas discharge are enclosed in the discharge chamber, wherein the filling is designed as a mercury-free filling that contains at least xenon and halides of sodium, scandium, and zinc. The filling has an amount of zinc halide ranging from 0 mg to 1 mg per 1 cm<sup>3</sup> of the discharge chamber volume; the amount of halides that is present in the discharge chamber (106) of the discharge vessel (10) ranges from 8 mg to 15 mg per 1 cm<sup>3</sup> of the discharge chamber volume; the cold fill pressure of the xenon ranges from 1.0 megapascal to 1.8 megapascal; and the volume of the discharge chamber (106) of the discharge vessel (10) has a value ranging from 0.015 cm<sup>3</sup> to 0.022 cm<sup>3</sup>.

IPC 8 full level

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