

Title (en)  
HIGH-PRESSURE DISCHARGE LAMP FOR VEHICLE HEADLIGHTS

Title (de)  
HOCHDRUCKENTLADUNGSLAMPE FÜR FAHRZEUGSCHEINWERFER

Title (fr)  
LAMPE À DÉCHARGE À HAUTE PRESSION POUR PHARE DE VÉHICULE

Publication  
**EP 3031071 B1 20170802 (DE)**

Application  
**EP 15702286 A 20150204**

Priority

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Abstract (en)  
[origin: WO2015139876A1] The invention relates to a high-pressure discharge lamp for vehicle headlights, comprising a gas-tightly sealed discharge container (10) having a discharge chamber (106), in which electrodes (11, 12) and a mercury-free filling for generating a gas discharge are enclosed. The filling contains at least xenon and halides of sodium, scandium, indium, and zinc, and the quotient of the molar fraction of sodium and the molar fraction of scandium in the halide proportion of the filling has a value in the range of 2 to 3, wherein the amount of halides in the discharge chamber (106) has a value in the range of 8 to 11 micrograms per cubic millimeter of the discharge chamber volume, the zinc halide proportion has a value in the range of 16 to 25 weight percent based on the total amount of halides in the discharge chamber (106), the indium halide proportion has a value in the range of 1 to 3 weight percent based on the total amount of halides in the discharge chamber (106), and the cold-filling pressure of xenon is in the range of 1.1 to 1.5 megapascals.

IPC 8 full level  
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