

Title (en)

LIGHT MODULE FOR A VEHICLE HEADLAMP HAVING LED LIGHT SOURCE AND VEHICLE HEAD LAMP

Title (de)

LICHTMODUL FÜR KFZ-SCHEINWERFER MIT LED-LICHTQUELLE UND FAHRZEUGSCHEINWERFER

Title (fr)

MODULE LUMINEUX POUR PHARE DE VÉHICULE DOTÉ D'UNE SOURCE LUMINEUSE À DEL ET PHARE DE VÉHICULE

Publication

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Application

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Priority

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Abstract (en)

The invention describes a light module (1) for a vehicle head lamp (14), comprising an LED light source (2) for generating light, the LED light source (2) comprising an LED array (3) having a plurality of LEDs (4), a collimating optic (5, 21, 26, 31), and an imaging optic (6). The collimating optic (5, 21, 26, 31) is arranged in a light path (7) between the LED light source (2) and the imaging optic (6) such that the collimating optic (5, 21, 26, 31) collects the light generated by the LED light source (2) and collimates it to the imaging optic (6). The imaging optic (6) is configured to generate an image of the plurality of LEDs (4) in a far field of the light generated by the LED light source (2). The collimating optic (5, 21, 26, 31) comprises a light entry surface (8) and a light exit surface (9), at least one of which having, with respect to a first spatial direction (y), a curvature comprising at least two inflection points (10). The curvature of a first surface section (11) extending between the two inflection points (10) of the respective one or more of the light entry and exit surfaces (8, 9) is concave. The invention further describes a vehicle head lamp (14) comprising such a light module (1).

IPC 8 full level

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Citation (applicant)

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Citation (search report)

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