

Title (en)

A LIGHT MODULE FOR A MOTOR VEHICLE HEADLAMP WITH A PLURALITY OF MICRO-OPTICS SYSTEMS

Title (de)

LICHTMODUL FÜR EINEN KRAFTFAHRZEUGSCHEINWERFER AUS EINER VIELZAHL VON MIKRO-OPTIKSYSTEMEN

Title (fr)

MODULE D'ÉCLAIRAGE DE PHARE DE VÉHICULE AUTOMOBILE AVEC UN GRAND NOMBRE DE SYSTÈMES MICRO-OPTIQUES

Publication

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Application

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Abstract (en)

[origin: WO2020030568A1] Disclosed is a projection apparatus (2) for a lighting module (1) of a motor vehicle headlamp, the projection apparatus (2) being formed by a plurality of micro-optical systems (3) that are arranged like a matrix; each micro-optical system (3) includes a micro-input optical element (30), a micro-output optical element (31) associated with the micro-input optical element (30), and a micro-diaphragm (32), all micro-input optical elements (31) forming an input optical unit (4), all micro-output optical elements (31) forming an output optical unit (5), and the micro-diaphragms (32) forming a diaphragm device (6); the diaphragm device (6) is disposed in a plane extending substantially perpendicularly to the main direction of emission (Z) of the projection apparatus (2), while the input optical unit (4), the output optical unit (5) and the diaphragm device (6) are disposed in planes extending substantially parallel to one another; all of the micro-optical systems (3) are subdivided into at least two micro-optical system groups (G1, G2, G3), and the micro-diaphragms (32) of the micro-optical systems (3) of each micro-optical system group (G1, G2, G3) can be projected in focus by means of light having at least one optical wavelength ( $\lambda_G$ ,  $\lambda_{G2}$ ,  $\lambda_{G3}$ ) lying within a predefined optical wavelength range, the predefined optical wavelength ranges being different in different micro-optical system groups (G1, G2, G3).

IPC 8 full level

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