

Title (en)

PROJECTION DEVICE, LIGHT MODULE AND MOTOR VEHICLE HEADLAMP MADE FROM MICRO OPTICS

Title (de)

PROJEKTIONSEINRICHTUNG, LICHTMODUL UND KRAFTFAHRZEUGSCHEINWERFER AUS MIKROOPTIKEN

Title (fr)

DISPOSITIF DE PROJECTION, MODULE LUMINEUX ET PHARES DE VÉHICULE AUTOMOBILE DE MICRO-OPTIQUES

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2020030573A1] 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 all 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; the micro-diaphragm (32) of each micro-optical system (3) has an optically effective edge (320, 320a, 320b, 320c, 320d, 320e), all of the micro-optical systems (3) are subdivided into at least two micro-optical system groups (G1, G2, G3), and the optically effective edges (320, 320a, 320b, 320c, 320d, 320e) in the micro-optical systems (3) from different micro-optical system groups (G1, G2, G3) are positioned differently relative to the associated micro-output optical elements (31) within the intermediate image plane.

IPC 8 full level

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