

Title (en)  
VEHICLE HIGH BEAM MODULE, VEHICLE HEADLIGHT, AND VEHICLE

Title (de)  
FAHRZEUGFERNLICHTMODUL, FAHRZEUGSCHEINWERFER UND FAHRZEUG

Title (fr)  
MODULE DE FEUX DE ROUTE DE VÉHICULE, PHARE DE VÉHICULE ET VÉHICULE

Publication  
**EP 4170230 A4 20240110 (EN)**

Application  
**EP 21842895 A 20210715**

Priority  
• CN 202010690413 A 20200717  
• CN 2021106540 W 20210715

Abstract (en)  
[origin: EP4170230A1] A vehicle high beam module, comprising a plurality of light-emitting sources (6) and a lens group comprising at least two stages of lenses, wherein a first-stage lens (1) in the lens group comprises a plurality of light gathering units (11) that are arranged side by side and that have light entry surfaces of a set width, light emitted by the light-emitting sources (6) passes through the first-stage lens (1) and other lenses in the lens group in succession to then form a plurality of light shape forming units, the plurality of light shape forming units are arranged in succession in a high beam shape having a plurality of pixels, the width of each light shape forming unit corresponds to the set width of a respective corresponding light entry surface, and the set width of each light entry surface is set so that the width of the plurality of pixels decreases from outer regions of the light shape to a central region of the light shape. In addition, a vehicle headlight and a vehicle are also disclosed. A small opening design, and a high beam shape that has a narrow pixel width at the region near the front of the vehicle and a wide pixel width in regions at two sides at the front of the vehicle are achieved.

IPC 8 full level  
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Citation (search report)  
• [XY] FR 3085463 A1 20200306 - VALEO VISION [FR]  
• [XY] FR 2999679 A1 20140620 - VALEO VISION [FR]  
• [XY] CN 107664295 A 20180206 - SHANGHAI KOITO AUTOMOTIVE LAMP  
• [XYI] KR 102014874 B1 20190827 - SL CORP [KR]  
• [Y] WO 2020083361 A1 20200430 - HASCO VISION TECH CO LTD [CN]  
• See references of WO 2022012634A1

Designated contracting state (EPC)  
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