

Title (en)

VEHICLE LAMP OPTICAL UNIT, VEHICLE LAMP MODULE, AND VEHICLE

Title (de)

OPTISCHE EINHEIT FÜR FAHRZEUGLAMPE, FAHRZEUGLAMPENMODUL UND FAHRZEUG

Title (fr)

UNITÉ OPTIQUE DE LAMPE DE VÉHICULE, MODULE DE LAMPE DE VÉHICULE ET VÉHICULE

Publication

EP 4137744 A1 20230222 (EN)

Application

EP 21832556 A 20210113

Priority

- CN 202010634007 A 20200702
- CN 2021071523 W 20210113

Abstract (en)

Provided are a vehicle lamp optical unit, vehicle lamp module, and vehicle. The vehicle lamp optical unit comprises a first optical element (1), the rear end face and front end face of the first optical element (1) are, in the direction of light emission, a light incident structure reference plane (11) and a first light-emitting surface (12) respectively; the rear end of the first optical element (1) is formed as a light incident part, the light incident part comprises at least one first light incident structure arranged along the left-right direction of the light incident structure reference face (11), and a first light passage (13) is formed between the light incident part and the first light-emitting surface (12); the first light incident structure is arranged to extend from the upper side or the lower side of the reference face (11) of the light incident structure to the first light passage (13), each first light incident structure guides the light received by the first light incident structure to exit toward the first light passage (13) and be transmitted to the first light exit face (12) along the first light passage (13). The vehicle lamp optical unit improves the visual effect of vehicle lamp lighting, satisfying the requirements of multiple lighting modes and illumination modes.

IPC 8 full level

F21S 41/24 (2018.01); **F21W 102/00** (2018.01)

CPC (source: CN EP)

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Designated contracting state (EPC)

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Designated extension state (EPC)

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