

Title (en)

VEHICLE PIXELATED LIGHTING DEVICE, VEHICLE LAMP, AND VEHICLE

Title (de)

PIXELIERTE FAHRZEUGBELEUCHTUNGSVORRICHTUNG, FAHRZEUGLAMPE UND FAHRZEUG

Title (fr)

DISPOSITIF D'ÉCLAIRAGE PIXÉLISÉ DE VÉHICULE, PHARE DE VÉHICULE ET VÉHICULE

Publication

**EP 4290127 A1 20231213 (EN)**

Application

**EP 21953148 A 20210812**

Priority

CN 2021112340 W 20210812

Abstract (en)

A vehicle pixelated lighting device, a vehicle lamp, and a vehicle. The vehicle pixelated lighting device comprises a pixel lighting light source (10), a light-transmitting element (30) and a lens assembly (20). The pixel lighting light source (10) is provided with an integral light-emitting surface (11). The light-transmitting element (30) is arranged at the edge of the pixel lighting light source (10) and covers at least a part of the edge of the integral light-emitting surface (11) of the pixel lighting light source (10). The light-transmitting element (30) is used to change the deflection angle of a light ray emitted from the pixel lighting light source (10) into the light-transmitting element (30), and to emit a polarization light ray to the lens assembly (20). The intersection of the reverse extension line of the polarization light ray and the plane of the integral light-emitting surface (11) is located outside of the light-emitting point of an incident light corresponding to the polarization light ray. The part of light entering the light-transmitting element (30) is directed at a point away from the outside of a pixelated light shape center point by means of the light-transmitting element (30), thereby achieving blurring of an pixelated light-shape edge, such that the pixelated light shape has a soft transition at the blurring edge thereof, and finally, after the pixelated light shape and the non-pixelated light shape are superposed, the transition is uniform at the superposition edge, and the connectivity is good..

IPC 8 full level

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CPC (source: EP)

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