

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 A4 20240529 (EN)

Application
EP 21953148 A 20210812

Priority
CN 2021112340 W 20210812

Abstract (en)
[origin: EP4290127A1] 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)
F21S 41/143 (2018.01); **F21S 41/153** (2018.01); **F21S 41/255** (2018.01); **F21S 41/285** (2018.01); **F21S 41/295** (2018.01); **F21W 2102/16** (2018.01)

Citation (search report)
• [XYI] EP 2505910 A2 20121003 - AUTOMOTIVE LIGHTING REUTLINGEN [DE]
• [XI] DE 102010027322 A1 20120119 - HELLA KGAA HUECK & CO [DE]
• [XI] US 2015211705 A1 20150730 - LEITOW MARC [DE], et al
• [XI] DE 102015104514 A1 20160929 - HELLA KGAA HUECK & CO [DE]
• [Y] US 2019086051 A1 20190321 - MOTOHASHI KAZUYA [JP]
• [A] EP 3677829 A1 20200708 - GREAT WALL MOTOR CO LTD [CN]
• See also references of WO 2023015531A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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