

Title (en)
LIGHTING SYSTEM FOR AUTOMOTIVE HEADLAMP

Title (de)
BELEUCHTUNGSSYSTEM FÜR KFZ-SCHEINWERFER

Title (fr)
SYSTÈMES D'ÉCLAIRAGE POUR PHARE DE VÉHICULE

Publication
EP 3961085 A1 20220302 (EN)

Application
EP 20192564 A 20200825

Priority
EP 20192564 A 20200825

Abstract (en)
An automotive lighting system (1) for a vehicle comprising a light source (11), a first lens (12) having a light entrance surface (121), and a second lens (13), a first protrusion (141) being provided at a periphery of the light entrance surface (121) of the first lens (12) with respect to an optical axis (L) of the automotive lighting system (1). Alternatively, the automotive lighting system (1) comprises a light source (11) having a first sub light source (111) and a second sub light source (112), a first lens (12) having a light entrance surface (121), and a second lens (13), wherein a first protrusion (141) and a second protrusion (142) are provided on the light entrance surface (121) of the first lens (12) with a first light exit face (1412) of the first protrusion (141) and a second light exit face (1422) of the second protrusion (142) keeping in contact with the light entrance surface (121) of the first lens (12). Besides, a partial overlapping (1400) exists between the first light exit face (1412) of the first protrusion (141) and the second light exit face (1422) of the second protrusion (142), such that the second lens (13) projects light from the first and second sub light sources (111, 112) on a road in front of the vehicle as a light pattern with a first maximum light intensity $I_{\text{sub} < \text{max} 1 > / \text{sub} < / \text{sub} >}$, a second maximum light intensity $I_{\text{sub} < \text{max} 2 > / \text{sub} < / \text{sub} >}$, and a minimum light intensity $I_{\text{sub} < \text{min} > / \text{sub} < / \text{sub} >}$ between the first maximum light intensity $I_{\text{sub} < \text{max} 1 > / \text{sub} < / \text{sub} >}$ and the second maximum light intensity $I_{\text{sub} < \text{max} 2 > / \text{sub} < / \text{sub} >}$, where $I_{\text{sub} < \text{min} > / \text{sub} < / \text{sub} >} / I_{\text{sub} < \text{max} 1 > / \text{sub} < / \text{sub} >} > 90\%$ and $I_{\text{sub} < \text{min} > / \text{sub} < / \text{sub} >} / I_{\text{sub} < \text{max} 2 > / \text{sub} < / \text{sub} >} > 90\%$.

IPC 8 full level
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Citation (search report)

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Designated contracting state (EPC)
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