

Title (en)  
AUTOMOTIVE LIGHTING AND/OR SIGNALING DEVICE WITH A LIGHT GUIDE

Title (de)  
BELEUCHTUNGS- UND/ODER SIGNALISIERUNGSVORRICHTUNG FÜR KRAFTFAHRZEUGE MIT EINEM LICHTLEITER

Title (fr)  
DISPOSITIF D'ÉCLAIRAGE ET/OU DE SIGNALISATION AUTOMOBILE AVEC UN GUIDE DE LUMIERE

Publication  
**EP 4286742 A1 20231206 (EN)**

Application  
**EP 22176412 A 20220531**

Priority  
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Abstract (en)  
A lighting and/or signaling device (4) for vehicles comprising a container body (8) that delimits a containment seat (12) which extends along a first perimeter edge (28), closed by a lenticular body (20) that extends along a second perimeter edge (32) at least partially counter-shaped to and overlapping said first perimeter edge (28), said containment seat (12) housing at least one LED or mini LED light source (16) adapted to emit a light beam comprising a plurality of light rays (18) which extend along a main optical propagation axis (X-X), and at least one light guide (24) configured to at least partially receive said light rays (18) at an inlet wall (36) thereof and to transmit and/or reflect said light rays (18) onto a rear wall (40) thereof. The rear wall (40) is provided with a plurality of optical extractor elements (44) which extract the light rays (18) and transmit them externally to the light guide (24) through a front wall (48) of the light guide (24), opposite to said rear wall (40), along a transverse direction (T-T), perpendicular to the main optical propagation axis (X-X). With respect to a cross-section plane passing through said main optical propagation axis (X-X) and said transverse direction (T-T), the inlet wall (36) has a middle section (52) with polyline geometry comprising a plurality of rectilinear sections and/or curvilinear sections (56) so as to overall be convex on the side of the at least one light source (16).

IPC 8 full level  
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CPC (source: EP)  
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Citation (search report)  
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