

Title (en)
Thin-plate light for motor vehicles

Title (de)
Dünne, plattenförmige Kraftfahrzeugeleuchte

Title (fr)
Feu pour véhicules, sous forme de plaque mince

Publication
EP 1589282 B1 20060607 (EN)

Application
EP 04425280 A 20040421

Priority
EP 04425280 A 20040421

Abstract (en)
[origin: EP1589282A1] A lighting system, in particular for motor vehicle lights, is made up of one or more cells, each comprising: a transparent dielectric module in the form of a plate (2), with two opposite main faces (I, II); a substantially point-like source (1) set in the proximity of a first (I) of the two main faces of said module; a primary reflector (3) formed on the second (II) of the main faces of the module for reflecting a first time the light coming from the source (1) that has traversed the plate (2); and a secondary reflector (4) formed on the first main face (I) of said module, for reflecting a second time the light already reflected by the primary reflector and directing it towards the outside of the module, on the side of said second main face (II), so as to collimate it in a pre-determined direction. The primary reflector (3) is made up of two parts: a substantially curved central section (A), coated with a reflecting layer (5) which is designed for reflecting a portion of the rays emitted by the source (1); and a substantially plane and transparent peripheral section (B), which is designed for reflecting in total internal reflection (TIR) another portion of the rays emitted by the source (1). The secondary reflector is made up of two sections: a first section (C), which is coated with a reflecting layer and is designed for receiving the light reflected by said central section (A) of said primary reflector and reflecting it towards the transparent section (B) of the primary reflector; and a second section (D), which is coated with a reflecting layer and is designed for receiving the light reflected in TIR from the transparent section B and reflecting it again outwards, through said section B of said primary reflector. <IMAGE>

IPC 8 full level
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CPC (source: EP US)
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Cited by
NL1037239C2; CN102506322A; CN102588787A; EP2484964A3; US2016195243A1; US10295153B2; DE102006008199A1; EP2009348A3; DE102006008199B4; US8147099B2; EP2009348A2; JP2012164562A; WO2023088716A1; EP2503224B1

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