

Title (en)  
ILLUMINATION DEVICE FOR A MOTOR VEHICLE AND MOTOR VEHICLE

Title (de)  
BELEUCHTUNGSEINRICHTUNG FÜR EIN KRAFTFAHRZEUG UND KRAFTFAHRZEUG

Title (fr)  
SYSTÈME D'ÉCLAIRAGE POUR VÉHICULE AUTOMOBILE ET VÉHICULE AUTOMOBILE

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Application  
**EP 14780762 A 20141001**

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Abstract (en)  
[origin: WO2015049048A1] The invention relates to an illumination device (1, 1') for a motor vehicle (17), comprising a laser light source (2), a radiation converter (6) containing a fluorescent material, in particular phosphorus, and a reflector (5), wherein laser light transmitted from the laser light source (2) is converted in the radiation converter (6) into secondary light which is in particular white and has a greater bandwidth by comparison with the laser light, and is spread. Said secondary light is redirected by the reflector (5) into a transmission direction of the illumination device (1, 1'), wherein in an impact region (8) of the reflector (5), which in the absence of the radiation converter (6) is exposed to the laser light, a protective means is provided for reduction of the light intensity of laser light transmitted from the illumination device (1, 1') in the absence of or damage to the radiation converter (6).

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Citation (examination)  
• EP 2461092 A2 20120606 - STANLEY ELECTRIC CO LTD [JP]  
• WO 2013024668 A1 20130221 - SHARP KK [JP], et al  
• DE 102011084406 B3 20130411 - OSRAM GMBH [DE]  
• US 2011063115 A1 20110317 - KISHIMOTO KATSUHIKO [JP]  
• EP 2781408 A2 20140924 - STANLEY ELECTRIC CO LTD [JP]  
• WO 2014072226 A1 20140515 - AUTOMOTIVE LIGHTING REUTLINGEN [DE]  
• EP 2541130 A2 20130102 - SHARP KK [JP]  
• WO 2014072227 A1 20140515 - AUTOMOTIVE LIGHTING REUTLINGEN [DE]  
• US 2011211243 A1 20110901 - SMITS GERARD DIRK [US]

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