

Title (en)
SYSTEM FOR GENERATING A LIGHT BEAM IN THE AREA IN FRONT OF A MOTOR VEHICLE

Title (de)
SYSTEM ZUM ERZEUGEN EINES LICHTBÜNDELS IM VORFELD EINES KRAFTFAHRZEUGES

Title (fr)
SYSTÈME POUR PRODUIRE UN FAISCEAU LUMINEUX EN AVANT D'UN VÉHICULE AUTOMOBILE

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Application
EP 08803008 A 20080812

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Abstract (en)
[origin: WO2009027221A1] A system is described for generating a light beam in the area in front of a motor vehicle, which system has the following components - a headlight which comprises at least one LED array comprising a plurality of light emitting diodes (LEDs) which can be electrically actuated separately, - an object detection device for detecting objects in the area around the motor vehicle, and - a position determining device for determining the position of a detected object relative to the motor vehicle. In this context, the light beam which is generated by the LED array in conjunction with an optical imaging system can be characterized by at least one horizontal illumination intensity distribution value, in which the contributions of at least two LEDs to the illumination intensity distribution value overlap at least partially in terms of the horizontal angle, wherein the illumination intensity can be defined respectively for a) different positions in front of the motor vehicle and b) different horizontal angles relative to a reference direction. For a detected object, a horizontal angle range which is critical in terms of dazzle is then identified in each case as a function of the position of the object with respect to the motor vehicle and as a function of an assumed or identified object width, and the individual LEDs are driven, while taking into account the overlapping, in terms of horizontal angle, of their contributions to the illumination intensity distribution value, in such a way that an illumination intensity limiting value is not exceeded in the horizontal angle range which is critical in terms of dazzle and in terms of the position of the detected object.

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See references of WO 2009027221A1

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