

Title (en)

METHOD FOR ADAPTING A VARIABLE RADIATION ANGLE OF A HIGH-BEAM HEADLIGHT OF A VEHICLE

Title (de)

VERFAHREN ZUM ANPASSEN EINES VARIABLEN ABSTRAHLWINKELS EINES FERNLICHTSCHEINWERFERS EINES FAHRZEUGS

Title (fr)

PROCÉDÉ PERMETTANT D'ADAPTER UN ANGLE D'ÉMISSION VARIABLE D'UN PROJECTEUR DE FEU DE ROUTE D'UN VÉHICULE

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Application

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Abstract (en)

[origin: WO2020015942A1] The invention relates to a method for adapting a variable radiation angle of a high-beam headlight of a vehicle (1) during travelling on a highway, the method comprising the following steps: determining a distance B between the vehicle (1) and a traffic lane (22) of an opposite lane that is closest to the vehicle (1); determining whether a straight-ahead travel or a cornering of the vehicle (1) is currently present; determining a position of a curve of the highway relative to the vehicle (1) and a radius of curvature r and a direction of curvature of the curve, wherein the curve is currently traveled or will be traveled after the end of the straight-ahead travel. Adapting the radiation angle: In the event that straight-ahead travel was determined on the basis of distance B, if a spacing d between the position of the curve and the position of the vehicle (1) exceeds a threshold value x; in the event that straight-ahead travel was determined on the basis of the distance B and the spacing d, if the spacing d between the position of the curve and the position of the vehicle (1) falls below a threshold value x; in the event a cornering was determined on the basis of a secant of the traffic lane (21), on which the vehicle (1) is located, wherein the secant forms a tangent with the traffic lane (22) of the multi-lane opposite lane located closest to the vehicle (1), wherein the radiation angle is limited to the tangent, if a left-hand curve is detected as the direction of curvature.

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