

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

Publication

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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.

IPC 8 full level

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