

Title (en)

SENSOR SYSTEM OF A SENSOR DEVICE OF A MOTOR VEHICLE

Title (de)

SENSORSYSTEM EINER SENSOREINRICHTUNG EINES KRAFTFAHRZEUGS

Title (fr)

SYSTÈME DE CAPTEUR D'UN DISPOSITIF DE DÉTECTION D'UN VÉHICULE AUTOMOBILE

Publication

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Application

EP 16731560 A 20160616

Priority

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Abstract (en)

[origin: WO2017041915A1] The invention relates to a sensor system (3) of a sensor device (4) of a motor vehicle (1) for optical detection of objects and their spatial movements, comprising a 3D camera which captures spatial data using a transit time method and which comprises a light source (6) and a light-sensitive receiving device (7), wherein the light source (6) and the light-sensitive receiving device (7) can be arranged in a common sensor housing (5) and are both aligned with a detection region (8) of the 3D camera, wherein a solution is achieved which provides a homogeneous illumination of the detection region of the 3D camera. This is achieved in that the light source (6) comprises a transmission optic (21) for the predetermined dispersion of the emitted light, wherein the transmission optic (21) comprises a first lens (22) and a second lens (23) which is arranged behind the first lens (22) in the direction of the emitted light, wherein at least one boundary surface (33) of at least one of the two lenses (22, 23) is designed as a free-form surface (32).

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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