

Title (en)

RADIAL OBJECTIVE FOR A SENSOR FOR GENERATING AN OPTICAL IMAGE OF A SENSING RANGE

Title (de)

RADIALOBJEKTIV FÜR EINEN SENSOR ZUM ERZEUGEN EINER OPTISCHEN ABBILDUNG EINES ERFASSUNGSBEREICHES

Title (fr)

OBJECTIF RADIAL DESTINÉ À UN CAPTEUR ET PERMETTANT DE PRODUIRE UNE REPRÉSENTATION OPTIQUE D'UNE ZONE DE DÉTECTION

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Application

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Abstract (en)

[origin: WO2014183884A1] The present invention relates to a radial objective arrangement (100) for generating an optical image of a sensing range. The radial objective arrangement (100) comprises a central light-deflecting unit (120) which is designed and arranged to refract light (10) coming from the sensing range and to pass on this light in a directional manner. In addition, the radial objective arrangement (100) comprises a light-collecting unit (160) which is designed and arranged to receive light (12) passed on by the central light-deflecting unit (120) and to project it onto an observation area (110) of the light-collecting unit (160). In accordance with the invention, the central light-deflecting unit (120) comprises a number of optical rings (122, 124, 126) which are arranged fixed in position in the radial objective arrangement (100; 200), wherein a corresponding one of the number of optical rings (122, 124, 126) comprises an outer lateral surface (122-1; 124-1; 126-1) which points in the radial direction, and wherein the central light-deflecting unit (120) is arranged in such a way that the light (10) coming from the sensing range is incident on the corresponding outer lateral surface (122-1; 124-1; 126-1). In this case, a monolithic piece of material of the radial objective arrangement (100; 200) surrounds the central light-deflecting unit (120) and the light-collecting unit (160).

IPC 8 full level

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