

Title (en)
HEAD-UP DISPLAY FOR MOTOR VEHICLE AND ASSISTED-DRIVING SYSTEM INCLUDING SUCH A DISPLAY

Title (de)
HEADUP-ANZEIGE FÜR EIN KRAFTFAHRZEUG UND FAHRASSISTENZSYSTEM MIT EINER SOLCHEN ANZEIGE

Title (fr)
AFFICHEUR TETE-HAUTE POUR VEHICULE AUTOMOBILE ET SYSTEME D'AIDE A LA CONDUITE COMPORTANT UN TEL AFFICHEUR

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Application
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Abstract (en)
[origin: WO2019141788A1] The invention relates to a head-up display (10) for a motor vehicle (3), including a first image-generating unit (11) comprising a first laser scanner (13, 14, 15) having a laser diode emitting at a first wavelength (λ_1), this first unit being controlled by a computer (30) to generate first images (Img1); a second image-generating unit (12) controlled by the computer to generate second images (Img2), this second unit being suitable for generating a light beam in a band of wavelengths ($\Delta\lambda$) comprising a second wavelength (λ_4); and an optical assembly (18) for projecting images, suitable for projecting the first and second images into the field of view of a driver (2) and including a spectrally selective optical filter (19) suitable for reflecting light at the first wavelength and for transmitting light in a major portion of the band of wavelengths. According to the invention, the first and second units are placed on either side of the optical filter so that the first and second images are formed in a first image plane (P1) and in a second image plane (P2), respectively, and the computer controlling the first unit is configured to process a set of data relative to the environment facing the vehicle so as to superimpose a first image with at least one specific object of said environment.

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