

Title (en)

METHOD AND ARRANGEMENT FOR OUTPUTTING A HEAD-UP DISPLAY ON A HEAD-MOUNTED DISPLAY

Title (de)

VERFAHREN UND ANORDNUNG ZUR AUSGABE EINES HEAD UP DISPLAY AUF EINEM HEAD MOUNTED DISPLAY

Title (fr)

PROCÉDÉ ET ENSEMBLE D'ENVOI D'UN AFFICHAGE TÊTE HAUTE SUR UN SYSTÈME DE VISIOCASQUE

Publication

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Application

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Abstract (en)

[origin: WO2020156854A1] The invention relates to a virtual head-up display (HUD) (1) which is displayed to a user (3) with a head-mounted display (HMD) (2), wherein at least some elements of the HUD are displayed substantially stationary in respect of the head's coordinates at the edge of the user's field of vision, even if the head is moved. A tracking device (21) captures at least one hand and/or finger movement by the user as a gesture. The gesture is detected and processed as an interaction with at least one element of the HUD. Direct interaction with the naked hand allows the user to operate, very intuitively, elements of the HUD, even close to his face. Direct interaction with the HUD by means of gestures represents a disruptive break with previous approaches to the implementation of a HUD for VR and AR applications. The enhanced ergonomics of gesture-based interaction allows the HUD to be used to display information which is intended to be constantly available, contrary to the shift away from the placement of information in the head's coordinates, as described in the prior art. The system makes it possible for the user to operate menus of this kind intuitively using the naked hand in front of the face.

IPC 8 full level

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CPC (source: EP US)

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US 2016026253 A1 20160128 - BRADSKI GARY R [US], et al

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