

Title (en)
 DEVICE AND METHOD FOR SIMULTANEOUSLY REPRESENTING VIRTUAL AND REAL ENVIRONMENT INFORMATION

Title (de)
 VORRICHTUNG UND VERFAHREN ZUR GLEICHZEITIGEN DARSTELLUNG VIRTUELLER UND REALER UMGEBUNGSMFORMATIONEN

Title (fr)
 DISPOSITIF ET PROCEDE POUR REPRESENTER SIMULTANEMENT DES INFORMATIONS D'ENVIRONNEMENT VIRTUELLES ET REELLES

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Abstract (en)
 [origin: WO2005096638A1] The invention relates to a device and a method for representing virtual and real environment information for at least one user, whereby virtual arrangements and real arrangements are represented in such a way that masking of the virtual arrangements by real arrangements can be identified. The relative position and orientation of the device in the real environment are detected by means of an environment detection unit (4). In addition, a detection of the reality and the conversion thereof into a 3-dimensional surface model is continuously carried out by means of a spatial detection unit (3). A processing system (9) transfers the 3-dimensional surface model of the real arrangement and the 3-dimensional model of the virtual arrangement into a common co-ordinates system and calculates possible masking surfaces of the virtual arrangement by the real arrangement.

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