

Title (en)  
HEAD-MOUNTED DISPLAY APPARATUS FOR PROFILING SYSTEM

Title (de)  
AM KOPF ANGEBRACHTE ANZEIGEVORRICHTUNG FÜR EIN PROFILIERUNGSSYSTEM

Title (fr)  
APPAREIL D’AFFICHAGE MONTE SUR LA TÊTE POUR UN SYSTÈME DE PROFILAGE

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Application  
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Abstract (en)  
[origin: WO2008092230A1] The invention provides a head-mounted display to visualize a medium through a surface by displaying an image characterizing the medium under the surface provided by a profiling system and referenced in the real environment of the user. An image of the medium under the surface is projected in front of one or both eyes of a person wearing the head-mounted display, in superimposition with the real environment of the user. The head-mounted display comprises a positioning sensor, such as an inertial positioning sensor, for determining its position and orientation in the real environment. As the user moves around the medium, the image of the medium is updated to display the medium as if it could be seen through the surface. In one embodiment of the invention, the image of the medium under surface is displayed in stereoscopy, the user thereby visualizing the medium in three dimensions.

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