

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

Publication
EP 2108135 A1 20091014 (EN)

Application
EP 07701738 A 20070131

Priority
CA 2007000138 W 20070131

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.

IPC 8 full level
G02B 27/01 (2006.01); **G01V 1/34** (2006.01); **G01V 9/00** (2006.01); **G02B 23/10** (2006.01); **G02B 27/22** (2006.01); **G06T 19/00** (2011.01); **H04N 5/74** (2006.01); **H04N 13/239** (2018.01)

CPC (source: EP US)
G02B 23/10 (2013.01 - EP); **G02B 27/0172** (2013.01 - EP); **H04N 13/117** (2018.04 - EP); **H04N 13/239** (2018.04 - EP US); **H04N 13/275** (2018.04 - EP); **H04N 13/344** (2018.04 - EP); **H04N 13/366** (2018.04 - EP); **G02B 2027/0134** (2013.01 - EP); **G02B 2027/0138** (2013.01 - EP); **G02B 2027/0178** (2013.01 - EP); **G02B 2027/0187** (2013.01 - EP)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2008092230 A1 20080807; AU 2007345525 A1 20080807; AU 2007345525 B2 20120308; CA 2668776 A1 20080807; CA 2668776 C 20100504; CN 101595417 A 20091202; CN 101595417 B 20121128; EP 2108135 A1 20091014; EP 2108135 A4 20130220; JP 2010517187 A 20100520; JP 5118152 B2 20130116; MX 2009007256 A 20090909

DOCDB simple family (application)
CA 2007000138 W 20070131; AU 2007345525 A 20070131; CA 2668776 A 20070131; CN 200780049424 A 20070131; EP 07701738 A 20070131; JP 2009547496 A 20070131; MX 2009007256 A 20070131