

Title (en)  
MULTIPLE IMAGING ARRANGEMENTS FOR HEAD MOUNTED DISPLAYS

Title (de)  
MEHRERE BILDERZEUGUNGSANORDNUNGEN FÜR AM KOPF MONTIERTE BILDANZEIGEVORRICHTUNGEN

Title (fr)  
MULTIPLES DISPOSITIFS D'IMAGERIE POUR VISIOCASQUES

Publication  
**EP 1723802 A1 20061122 (EN)**

Application  
**EP 03799904 A 20031212**

Priority  
US 0339756 W 20031212

Abstract (en)  
[origin: WO2005062629A1] A head mounted display is disclosed that utilizes a single video display screen to transport images to both eyes. Multiple reflections are created by illuminating the display screen from a plurality of directions, or by illuminating the display screen with light beams of differing polarizations. The reflections of the display screen are focused in order to reduce the splitting volume and then redirected by a plurality of reflective surfaces located near the focal point of the display images. Different images may be sent to each eye of a user by interlacing multiple data streams for the display and linking each data stream with a specific illumination direction, or specific polarization.

IPC 8 full level  
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**WO 2005062629 A1 20050707**; AU 2003299615 A1 20050714; AU 2003299615 B2 20080717; AU 2008227081 A1 20081023; BR 0318642 A 20061128; CA 2548224 A1 20050707; CN 1894975 A 20070110; EP 1723802 A1 20061122; JP 2007524855 A 20070830

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