Abstract

The product is a headset with a combination of two lenses, a variable focus liquid lens, and a variable focus and variable intensity pinhole array lens having variable diameter pinholes. The diameter can be contracted electrically, mechanically, electrochemically, opto-chemically, thermal chemically or other suitable methods. The variable focus and variable intensity pinhole lens can also be made using a fresnel lens. By changing the diameter of the transparent areas and the pitch between them the variable focus and the variable intensity functions are achieved. The variable focus and variable intensity pinhole lens along with the variable focus liquid lens are placed one before the other in the assembly of the headset. The headset is compact and estimated to be the size of a pair of glasses. The AR/VR image is seen on a transparent image display screen. In another embodiment, the AR/VR image can also be depicted on the image display screen through reflection of the image from a transparent sheet of glass or plastic placed at an angle to the image display screen.

fig. 5