Fully transparent 3D display.

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Fully transparent 3D display by the directional characteristics for light

Some transparent plates have the directional characteristics for light. The viewer-A in Figure 1 cannot see the light but the viewer-B and the viewer-C can see the light. Figure 2 is the basic structure of the transparent display. The viewer-A can only see the light the transparent plate-B reflects. Figure 3 is the transparent display structure. It consists of the transparent plates and the transparent slits. The light source projects the right eye image and the left eye image on the transparent plates. The transparent slits reflect the right eye image for the right eye and the left image for the left eye.

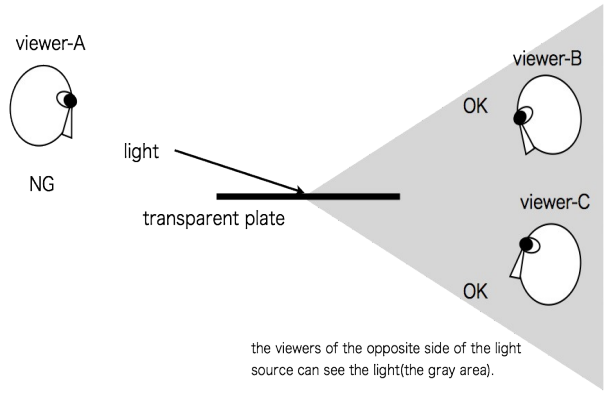

Figure 1

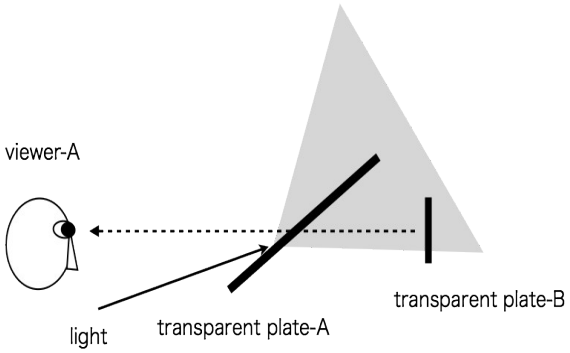

Figure 2

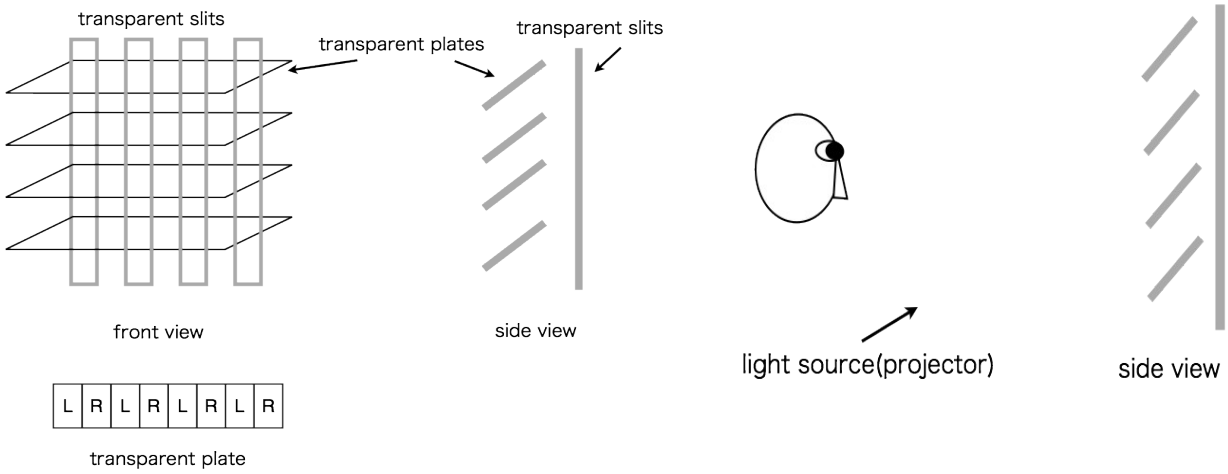

Figure 3

(Reference) This YouTube video is an example of the directional transparent plate. The projectors from three directions project each image on the plate. Each image can be seen from the right,the center and the left viewers.

https://youtu.be/G-l9b7qOxcY