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(54) **Title**: AUTOSTEREOSCOPIC DISPLAY WITH FRESNEL LENS ELEMENT

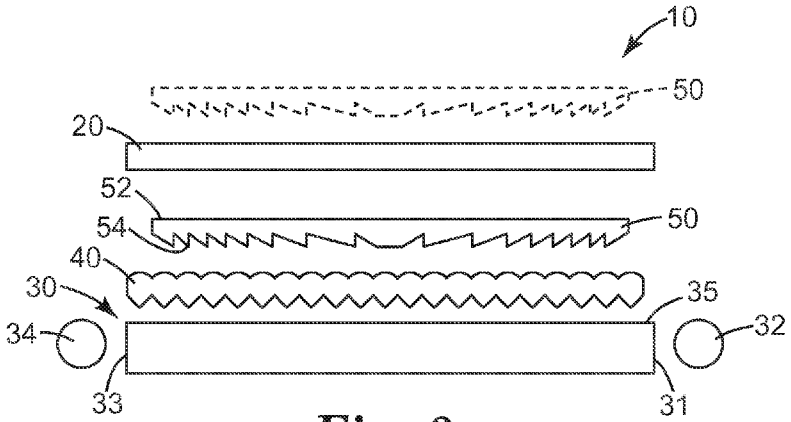


Fig. 3

(57) **Abstract**: An autostereoscopic display is described. The autostereoscopic display apparatus includes a backlight having opposing first and second light input surfaces and a light transmission surface extending between the opposing first and second light input surfaces and a right eye light source located to provide light into the first light input side and a left eye light source located to provide light into the second light input side, wherein the left eye light source and the right eye light source are configured to be modulated between the left eye light source and the right eye light source at a rate of at least 90 hertz. A double sided prism film is adjacent to the light transmission surface. The double sided prism film has a plurality of linear prism features on a first major surface and a plurality of lenticular features on a second major surface. The first major surface opposes the second major surface. The double sided prism film is disposed between the light transmission surface and a Fresnel lens element. A liquid crystal display panel is positioned to receive light transmitted through the double sided prism film.

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