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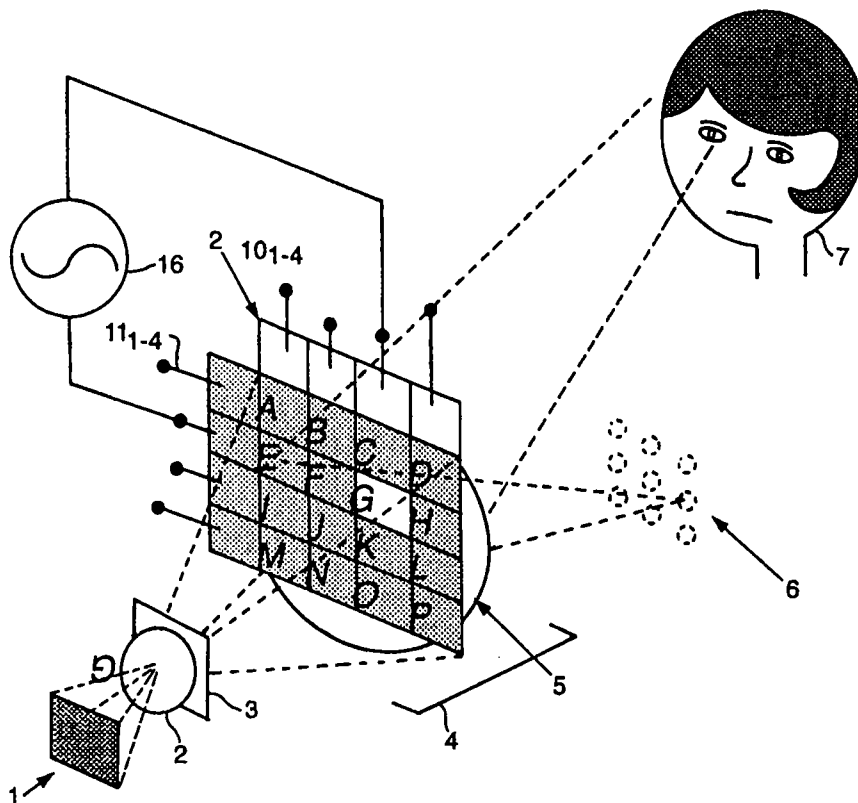


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(54) Title: AUTOSTEREOSCOPIC DISPLAY

(57) Abstract

A three-dimensional video display for displaying moving images includes a screen (4) on which successive frames of holographic images are displayed, a collimated light source (6) that can be from a single direction or scanned repeatedly through a series of discrete directions onto the screen in synchronism with the scanning of successive frames, the arrangement being such that a three-dimensional moving image can be observed on the screen. The image screen (4) may be an optically addressed spatial light modulator (OASLM) and may include front and rear plates (8, 9) containing a layer of a ferroelectric or nematic or long pitch cholesteric liquid crystal material (13) and a layer of a light sensitive layer (15). Between the two layers is a reflective layer (14). The front and rear plates (8, 9) carry electrodes (10, 11) arranged in an x,y matrix of separate addressable pixels. Projection means (1) project images onto the light sensitive layer (15) to vary the light reflective properties of the liquid crystal layer (13). Thus when the liquid crystal layer (13) is scanned by the laser sources (6) in sequence the variable reflectance across the layer provides an observer with a sequence of holographic images.



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