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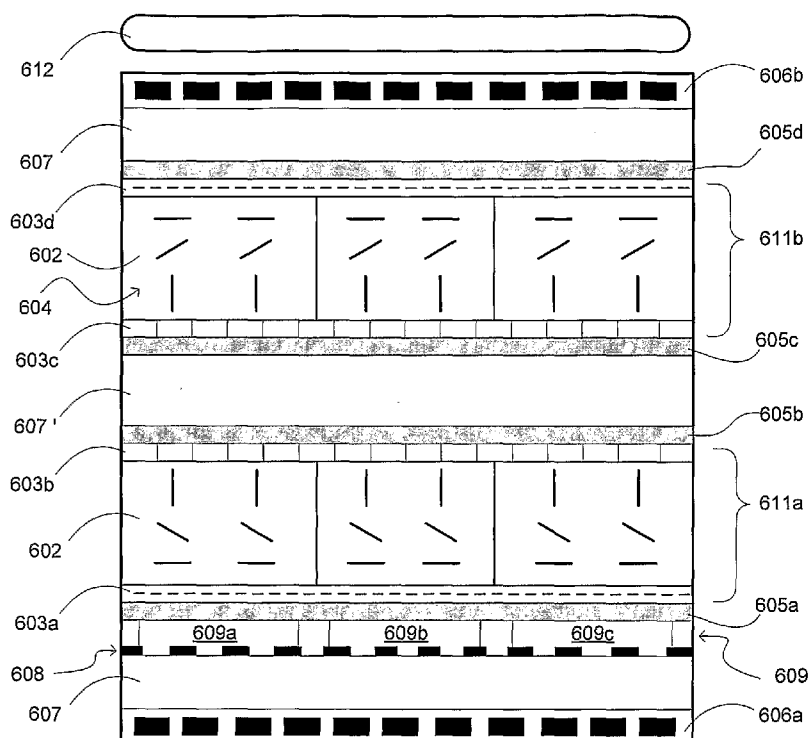
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(54) Title: COMPOSITE DUAL LCD PANEL DISPLAY SUITABLE FOR THREE DIMENSIONAL IMAGING



(57) Abstract: A three-dimensional
imaging system and related methods
is provided that utilizes a composite
transmissive LCD panel (501). The
composite LCD panel (501) contains
at least two layers of stacked liquid
crystal cells (502) positioned on top
of one another relative to the imaging
direction, is utilized to display at least
two calculated images superimposed
over one another at different distances
within the panel from the viewer. Each
layer of liquid crystal cells (502) create
multiple pixels from the cells, which
pixels collectively can be operated to
form independent images on each liquid
crystal layer. The composite LCD panel
(501) can be used to create a continuous
3-D image field in a large viewing area or
in multiple viewing areas in conjunction
with a suitable 3-D image generation
system.



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