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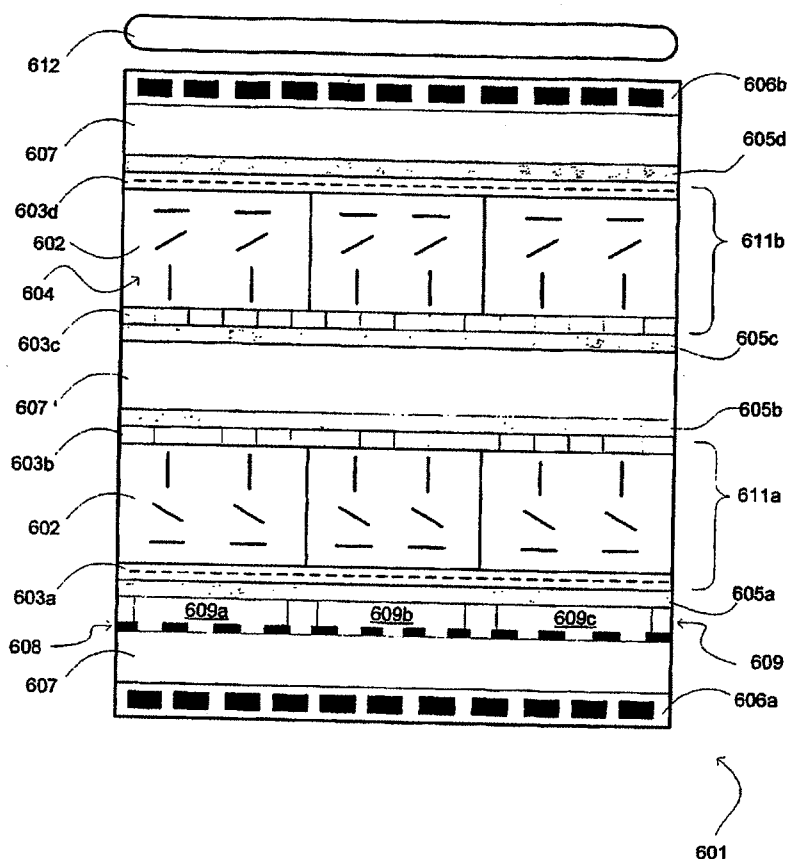
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(54) Title: COMPOSITE DUAL LCD PANEL DISPLAY SUITABLE FOR THREE DIMENSIONAL IMAGING



(57) Abstract: A three-dimensional
imaging system and related methods
is provided that utilizes a composite
transmissive LCD panel. The composite
LCD panel contains at least two layers of
stacked liquid crystal cells 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 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 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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