US996285665Z9

APPLICATION FOR UNITED STATES LETTERS PATENT

Title: 3D2D TRANSFORMATIVE SPECTACLES

Inventors: James Vrionis

Mr. Madeu Pthisname

University of California, Santa Cruz
1156 High Street
Santa Cruz
(831) 459-0111

3D2D TRANSFORMATIVE SPECTACLES

FIELD OF THE INVENTION

[**0001**] The invention relates to an image display system, and more particularly to the ability to deflate a 3D aspect ratio back into a 2D image.

[**0002**] Optical device for real time translation of 3D images into 2D. Real time image translation apparatus made to adapt ordinary bifocal lenses to view 3D movies as a high definition 2D film.

BACKGROUND OF THE INVENTION

[**0003**] Many IMAX movies are shown only in 3D and for many viewers not ready for Such an impressive experience, a need for this system was born. A 2D image system on dedicated glasses worn by a viewer will now present the image as if it were never 3D.

[**0004**] Conventional 3D passive image processing frames, while quite functional, are often not very useful to those that want a nice 2D image. Although the experience may be great, they may want a less in your face, intrusive view. Unfortunately, conventional lenses only show enhance an image which to a 3D perspective, so that it becomes difficult or impossible to even enjoy such an expierence because its doesnt exist.

OBJECTS OF THE INVENTION

[**0005**] It is an object of this invention to tranlate 3D images shown at many IMAX theatres back to 2D. It will not dimisish the quality or expierence the user or those arround the user.

[**0006**] Necessary materials: Plastic, polarizing and nonpolarizing film.

[**0007**] Still other objects and advantages of the invention will in part be obvious and will in part be apparent from the specification and drawings.

PRIOR ART

[**0008**] US20130009947A1 Passive 3D

[**0009**] US20120314937A1 Method and apparatus for providing a multi-view still image service

SUMMARY OF THE INVENTION

[**0010**] In order to overcome 3D images, we tranlate them into 2D images.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

[**0011**] The details of the invention go here. I will use this area to make reference to the drawings so you can see how it's done.

[**0012**] The arrangement in reference to this object will contain three different flims, bonded together in order to un3D this image. A layer of polarizing film will be sandwiched in-between two nonpolarizing sheets. Taking these lenses and bonding them with a frame that comfortably places said lenses infront of each eye allowing any user to enjoy 2D at any time.

What is claimed:

1. An optical 2D image system, for receiving a passive 3D image comprising N rows of modified data for this 2D image system comprising:

   A means of 2D image display module, comprising nonpolarizing film to polarizing film back to nonpolarizing film;

   A descaling module, for dilation for N/2 rows of scaled data in N rows back to original aspect ratio by 2N;

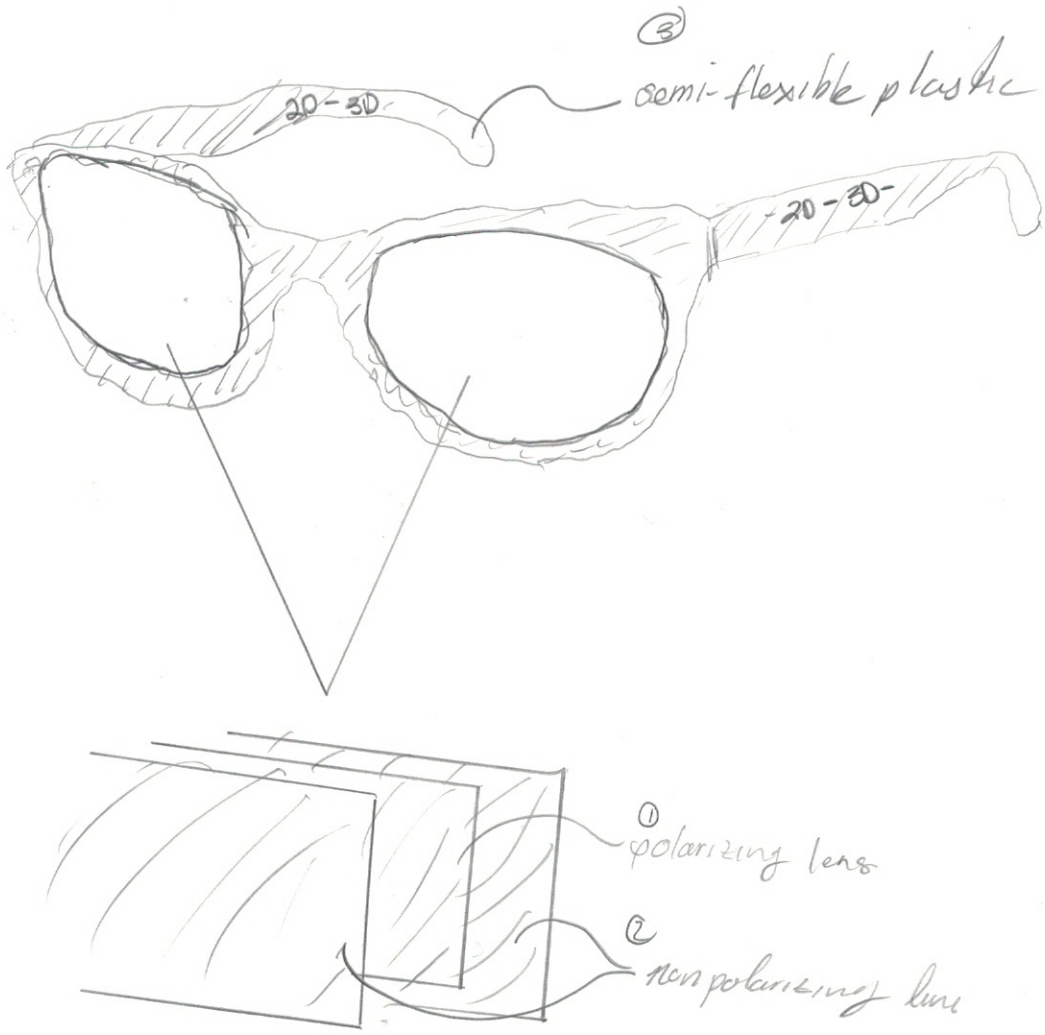
   A luminance readjusting module, for re-adjusting N/2 rows of scaled data to decrease a luminance of the scaled image;

   wherein, the descaling module comprises N/2 rows of reprocessed data, and is displayed by the optical 2D image display system.

2. A optical 2D image system according claim 1 wherein this system is surround by a semi-fexible plastic frame.

ABSTRACT

An optical 2D image system for receiving a 3D image that have N rows of modified rows of data back to a 2D image. This optical system dilates N/2 rows of scaled data to 2N from a left-eye image or a right-eye image. The image will be readjusted back to its original aspect ratio.


③
semi-flexible plastic
20-30
20-30
①
polarizing lens
②
non polarizing lens