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(54) Title: METHOD AND APPARATUS FOR MULTI-SPECTRAL IMAGING

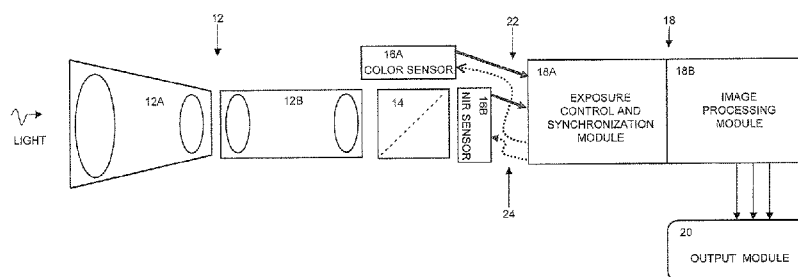


FIGURE 1

(57) Abstract: A system and method for sampling multi-spectral images of a dynamically changing scene facilitates independently dynamically adjusting the exposure of a photosensor based on a first group of sequences of images, while disregarding a second group of sequences of images, where each sequence of images is of a distinct color of light. In addition, the current description presents an innovative technique for constructing a multi-spectral image of a scene based on individually contrast-enhanced images of the scene. Applications include video photography and high quality true color stills camera with separate sensor arrays for each color channel. The control of the present embodiment can be used to produce photographs with truer color than conventional techniques.

