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(54) Title: SYSTEMS, DEVICES, AND METHODS FOR IMAGE INTERPRETATION

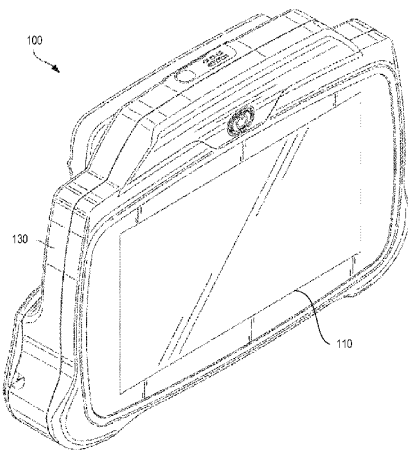


FIG. 1A

(57) Abstract: Systems, devices, and methods operate on a fluorescence image to ensure a white balance correctness of the fluorescence image; perform a color analysis of the fluorescence image, including: converting the fluorescence image to an HSV color space, comparing a saturation parameter of the first converted image to a first saturation threshold condition and comparing a value parameter of the first converted image to a first value threshold condition, wherein the first value and saturation threshold conditions are based on a correlation between a first color and the first bacterial fluorescence signature, and identifying areas of the fluorescence image where the saturation parameter satisfies the first saturation threshold condition and the first value parameter satisfies the value threshold condition, discard the identified areas which are smaller than a size threshold, and outline the remaining identified areas on the fluorescence image, thereby to generate an overlay image.

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