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(54) Title: MODULAR SYSTEM FOR MULTI-MODAL IMAGING AND ANALYSIS

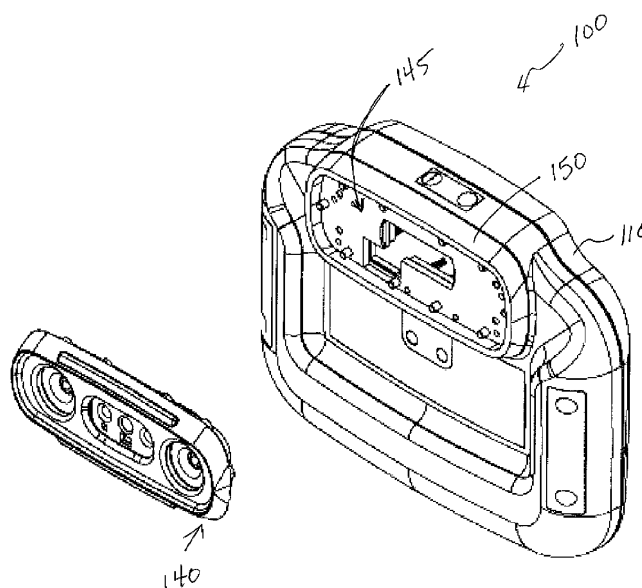


FIG. 5A

(57) Abstract: A portable, modular handheld imaging system is disclosed. The modular system comprises a first housing portion and a second housing portion. The first housing portion includes at least one excitation light source. A first filter is configured to detect and permit passage of selected optical signals responsive to illumination with the excitation light to a first image sensor. A second filter is configured to detect and permit passage of selected optical signals responsive to illumination of the target surface with white light to a second image sensor. The second housing portion is configured to releasably receive the first housing portion. The second housing portion includes a display and a processor configured to receive the detected fluorescent and white light optical signals and to output a representation of the target surface to the display based on the detected optical signals.

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