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(54) Title: NON-MYDRIATIC HYPERSPECTRAL OCULAR FUNDUS CAMERA

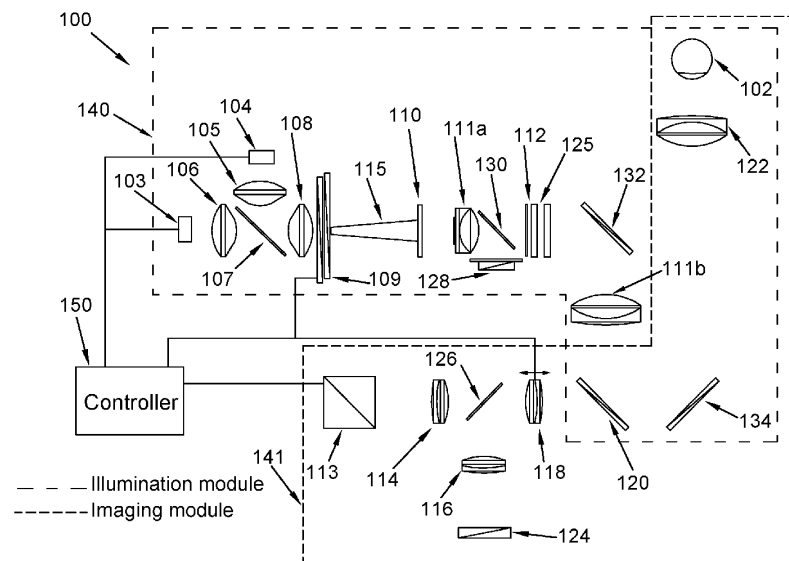


Figure 1

(57) Abstract: Described herein is an ocular fundus imaging apparatus (11) including an illumination module (140) and an imaging module (141). The illumination module (140) includes light sources (103, 104) configured to generate light at wavelengths within a desired spectral range. A first optical assembly is provided to shape and direct the light onto an eye (102) of a subject. A tuneable bandpass filter (109) selects a wavelength sub-interval within the desired spectral range. The imaging module (141) includes a second optical assembly to collect light returned from the eye (102) of the subject and to project the returned light from the eye (102) onto an image sensor (113). The second optical assembly includes one or more optical elements capable of compensating for ocular variation. The image sensor (113) is configured to image the returned light to generate an image of the ocular fundus at the wavelength sub-interval.

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