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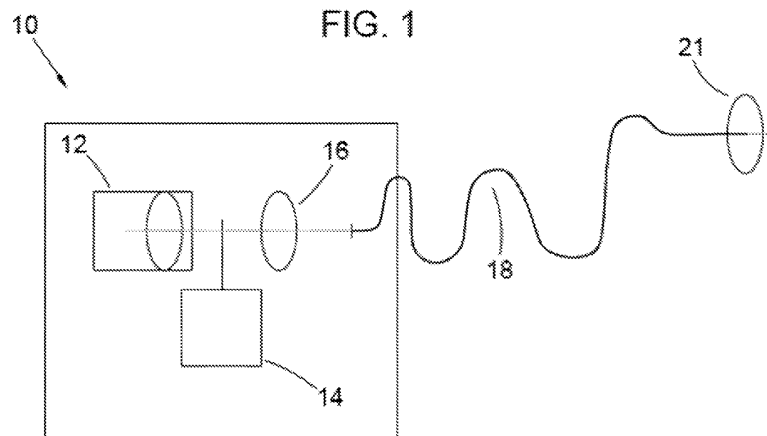
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(54) Title: IMPROVEMENTS IN OR RELATING TO AN ILLUMINATION DEVICE



(57) Abstract: A critical illumination device is provided. The critical illumination device comprise a uniform illumination of an object in a reflected light microscope, the critical illumination device comprising a coherent or partially coherent light source; an optical fibre coupled with the light source, wherein the fibre comprises a core with a diameter of at least 15 microns and a numerical aperture of 0.1 to 0.5; and at least one collimator lens positioned at the focal length from the tip of the optical fibre, wherein the collimator lens is configured to match the numerical aperture of the optical fibre to couple light out of optical fibre.

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