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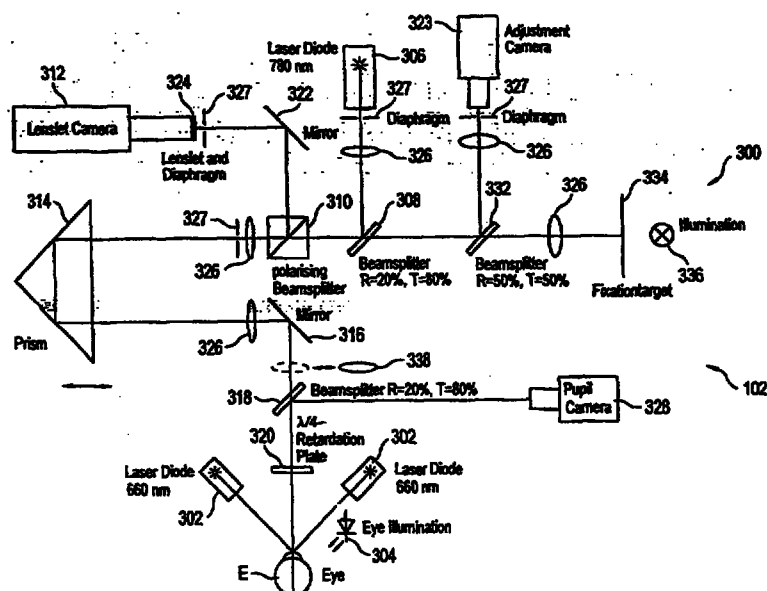
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(54) Title: WAVEFRONT SENSOR HAVING MULTI-POWER BEAM MODES, INDEPENDENT ADJUSTMENT CAMERA, AND ACCOMMODATION RANGE MEASUREMENT



(57) Abstract: An improved wavefront sensor is provided that enhances the initial focus and precision of imaged spots used to determine the monochromatic wave aberrations of the eye. The wavefront sensor includes an adjustment camera that is independent of a lenslet camera. A laser in a lower power mode is projected onto the retina of the eye and is brought into more precise or sharp focus by a control system employing data from the adjustment camera, which aids in focusing the imaged spots. "Trombone"-type optics are used to adjust the focus of the light projected onto the retina and the imaged spots onto a sensor. The laser has a higher power mode used when acquiring data of the imaged spots from the sensor.



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