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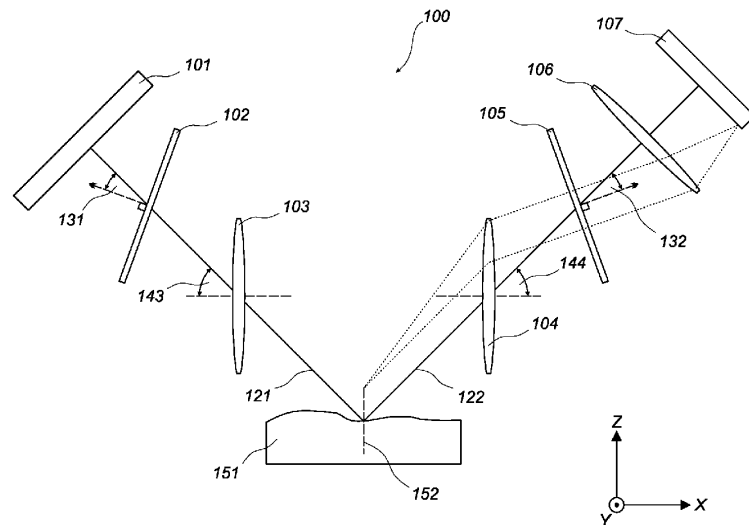


FIG. 1

(57) Abstract: The invention relates to the field of optical measurement devices, in particular to displacement sensors, 3D sensors for measuring the position and/or shape or thickness of a measurement object or roughness sensors for measuring the roughness of the surface of an object. Measurement light is projected onto a measurement object after filtering by a first Fabry-Perot filter such that at each point in a measurement plane, the filtered measurement light has a locally unique wavelength or combination of wavelengths in at least one direction in the measurement plane. Measurement light reflected from the surface of the measurement object is filtered by a second Fabry-Perot filter in order to filter out measurement light not reflected from the intersection of the measurement object with the measurement plane.

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