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(71) Applicant: **LMI TECHNOLOGIES INC.** [CA/CA];
9200 Glenlyon Parkway, Burnaby, British Columbia V5J
5J8 (CA).

(72) Inventor: **KERÄNEN, Heimo**; Käsikiventie 15, 90240
Oulu (FI).

(74) Agent: **BERGGREN OY**; P.O. Box 16, (Eteläinen
Rautatiekatu 10 A), 00101 Helsinki (FI).

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(54) Title: DEVICE FOR DETERMINING A DISTANCE, SURFACE THICKNESS AND OPTICAL PROPERTIES OF AN OBJECT
AND RELATED METHOD

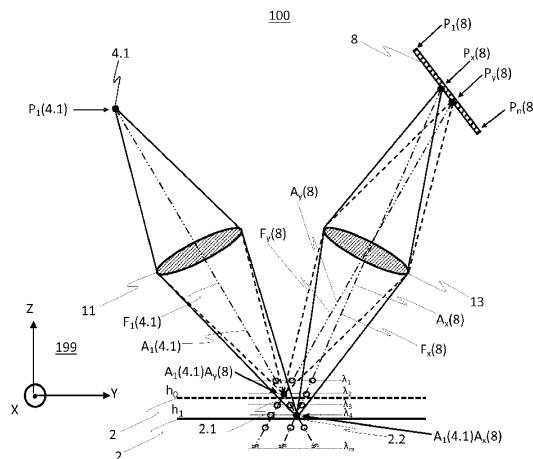


FIG. 1a

(57) Abstract: Described herein is a device for determining the position and/or optical properties of an object (2). The device comprises at least one output element (4.1) for providing light, illuminating optics (11) for directing light from the output element to the object, a light sensor (8) and imaging optics (13) for collecting light from the object to the light sensor. The device is configured to determine the position and/or optical properties of the object (2) from the local maximum of the intensity distribution of the light detected by the light sensor (8), where the local maximum is a result of the light collected from the intersection of the object point (2.1) and one of the coincident focus points or focus areas formed by the illuminating (11) and imaging optics (11). The device can be used for determining intensity value for the light reflected from the object point (2.1) with at least with two different wavelengths. Also described herein is a method for determining the position and/or optical properties of an object (2).

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