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(54) Title: ZONE PLATE

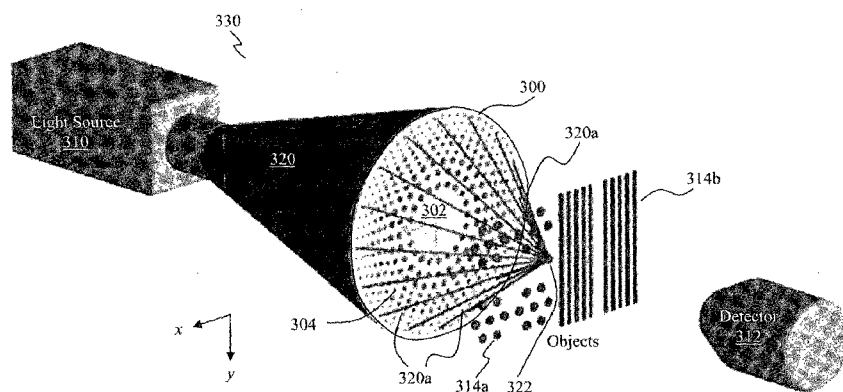


FIG. 3A

(57) **Abstract:** According to embodiments of the present invention, a zone plate is provided. The zone plate includes a mask layer that is at least substantially non-transmissive to an electromagnetic radiation impinging on the zone plate, and a plurality of apertures defined through the mask layer, the plurality of apertures being at least substantially transmissive to the electromagnetic radiation, wherein the plurality of apertures are distributed in at least one concentric pattern so as to diffract the electromagnetic radiation and focus the diffracted electromagnetic radiation to a desired focal plane. According to further embodiments of the present invention, a microscope and an imaging device are also provided.

