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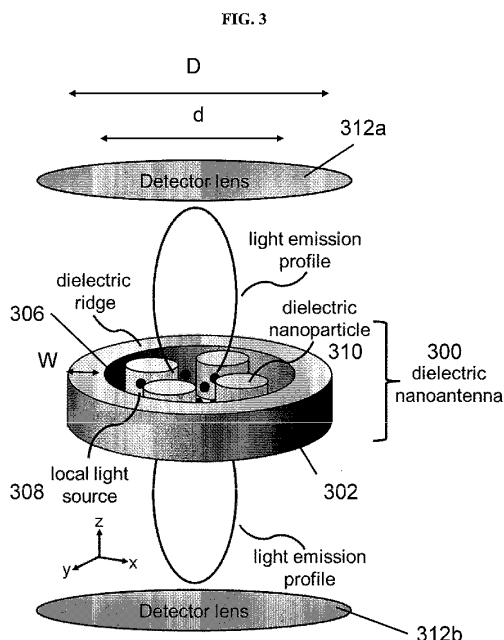
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(54) Title: ANTENNA, ASSEMBLY, AND METHODS OF FORMING THE SAME



(57) Abstract: Various embodiments may relate to an antenna. The antenna may include a ridge reflector arranged along a plane. The ridge reflector may be configured to enhance an emission of at least one electromagnetic wave source providing an electromagnetic wave signal to the antenna and further configured to direct the electromagnetic wave signal in a direction at least substantially perpendicular to the plane. The ridge reflector may define a space along the plane for allowing the electromagnetic wave signal to be directed in the direction at least substantially perpendicular to the plane. The ridge reflector may include at least one of a dielectric material and a semiconductor material.

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