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(54) Title: OPTICAL ELEMENTS PROVIDING COLLIMATION AND FAN-OUT OR DIFFUSION

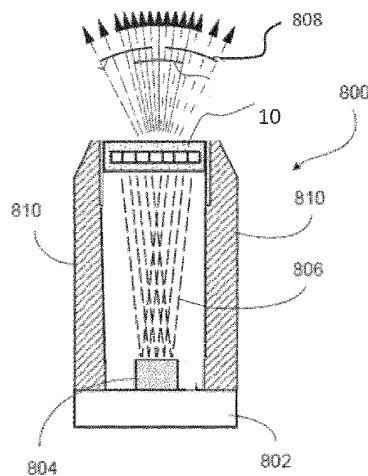


FIG. 8

(57) Abstract: The present disclosure describes optical elements, as well as methods for designing and fabricating such optical elements. An example apparatus includes an optical element having a first surface and a second surface, wherein the first and second surfaces are on opposite sides of the optical element from one another. The first surface is structured to collimate a light beam incident on the first surface, and the second surface is structured to provide correction to collimation imparted by the first surface and to provide at least one of optical fan-out or diffusion for the light beam.

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