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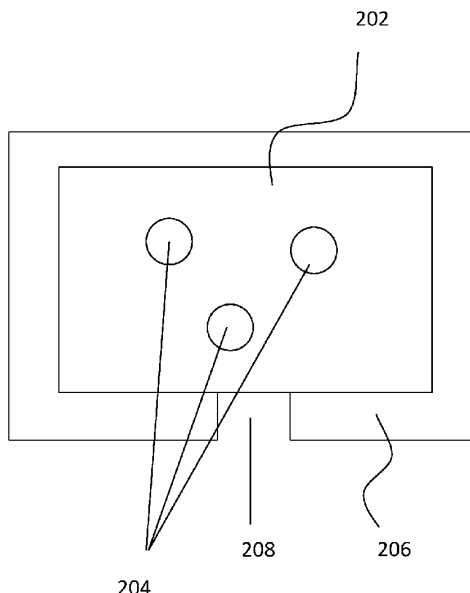
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(54) Title: LIGHT CONCENTRATOR AND METHOD OF FORMING THE SAME

FIG. 2



(57) Abstract: Various embodiments may relate to a light concentrator including a polymeric matrix with embedded luminophores, and a wavelength-selective structure such that the polymeric matrix is within a cavity defined by the wavelength-selective structure. The wavelength-selective structure may be configured to substantially allow external light of a predetermined range of wavelengths incident onto the wavelength-selective structure at predetermined incident angles to pass through the wavelength-selective structure. The luminophores may be configured to absorb the external light of the predetermined range of wavelengths that passes through the wavelength-selective structure, and further configured to emit wavelength-converted light of another predetermined range of wavelengths upon absorption of the external light. The wavelength-selective structure may be further configured to substantially reflect the wavelength-converted light incident onto the wavelength-selective structure at further predetermined incident angles, and may define an opening configured to allow the wavelength-converted light and/or the reflected wavelength-converted light to pass through.

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