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(54) **Title: LED ARRAY WITH METALENS FOR ADAPTIVE LIGHTING**

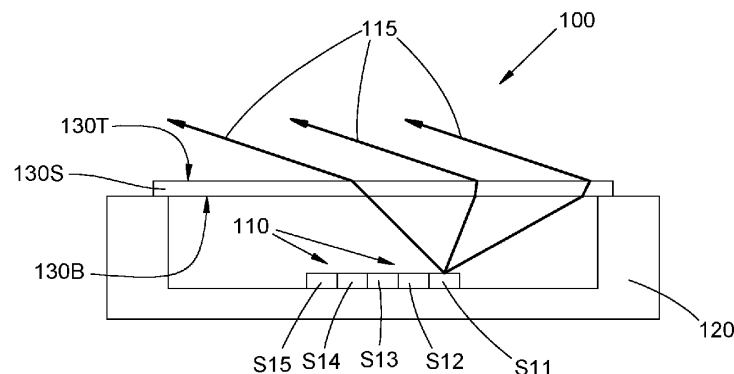


FIG. 1

(57) **Abstract:** An adaptive lighting system comprises an array of independently controllable LEDs, and a metalens positioned to collimate, focus, or otherwise redirect light emitted by the array of LEDs. The adaptive lighting system may optionally include a pre-collimator positioned in the optical path between the array of LEDs and the metalens.

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