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(54) Title: LED STRUCTURE AND FABRICATION PROCESSES THEREOF

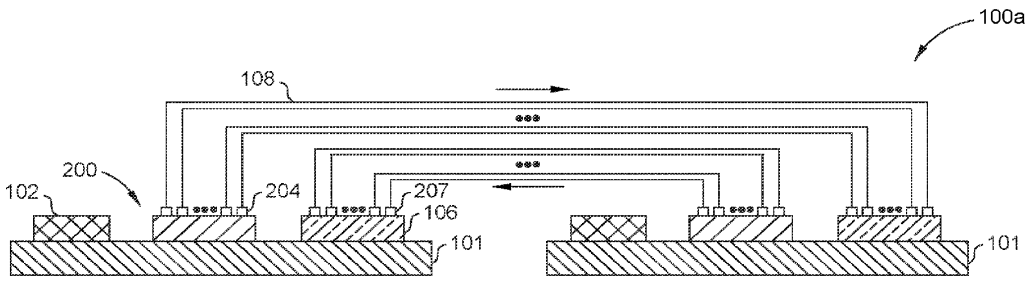


FIG. 1A

(57) Abstract: In on embodiment, a device is provied. The device includes a light-emitting diode (LED) panel and a photodetector array. The LED panel including a backplane including backplane electrodes disposed in or on the backplane, a plurality of LEDs each including an LED electrode wherein the backplane electrodes are coupled to the LED electrodes, and a reflective layer disposed on sidewalls of each LED. The photodetector array include a plurality of photodetectors.

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