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(54) Title: LIGHT DETECTION AND RANGING (LIDAR) MODULE FOR A LIDAR SYSTEM

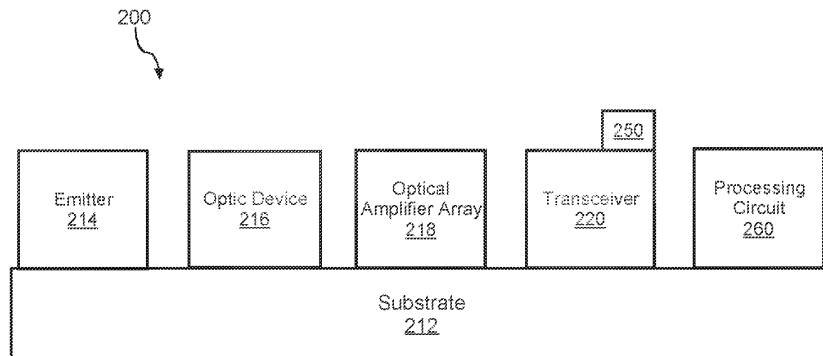


FIG. 3

(57) Abstract: A LIDAR system includes a substrate and an emitter coupled to the substrate and configured to emit a light beam along a first axis of the substrate. The LIDAR system includes an optic device coupled to the substrate and configured to split the light beam into a plurality of light beams. The LIDAR system includes an optical amplifier array coupled to the substrate and configured to amplify the plurality of light beams received from the optic device to generate a plurality of amplified light beams. The LIDAR system includes a transceiver coupled to the substrate and configured to redirect the plurality of amplified light beams from traveling along the first axis of the substrate to traveling along a second axis of the substrate that is different from the first axis.

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