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(54) Title: SENSOR AND METHOD OF MANUFACTURING THE SAME, AND SYSTEM FOR DETECTING A PARTIAL DISCHARGE SIGNAL AND A METHOD OF FORMING THE SAME

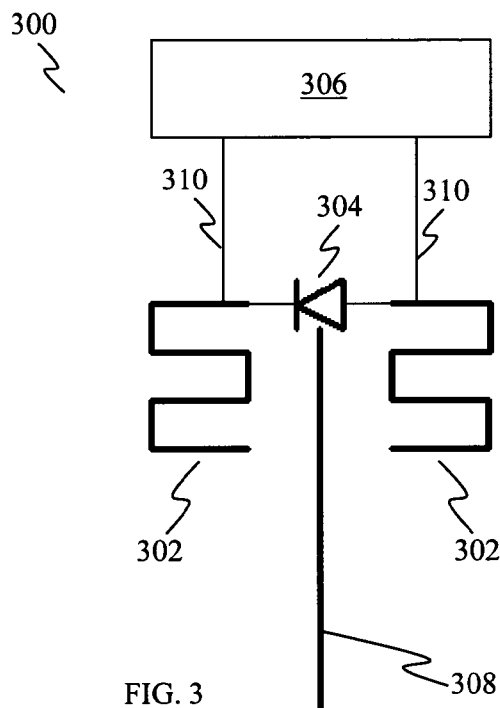


FIG. 3

(57) Abstract: According to various embodiments, a sensor is provided. The sensor includes an antenna configured to receive a partial discharge signal, and a vertical-cavity surface-emitting laser coupled to the antenna, wherein the vertical-cavity surface-emitting laser is configured to convert the received partial discharge signal into an optical signal. Further embodiments provide a method of manufacturing a sensor, a system for detecting a partial discharge signal, a method of forming a system for detecting a partial discharge signal and a method of detecting a partial discharge signal.



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