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(54) Title: MULTI-CHANNEL PROGRAMMABLE DETECTION SENSOR

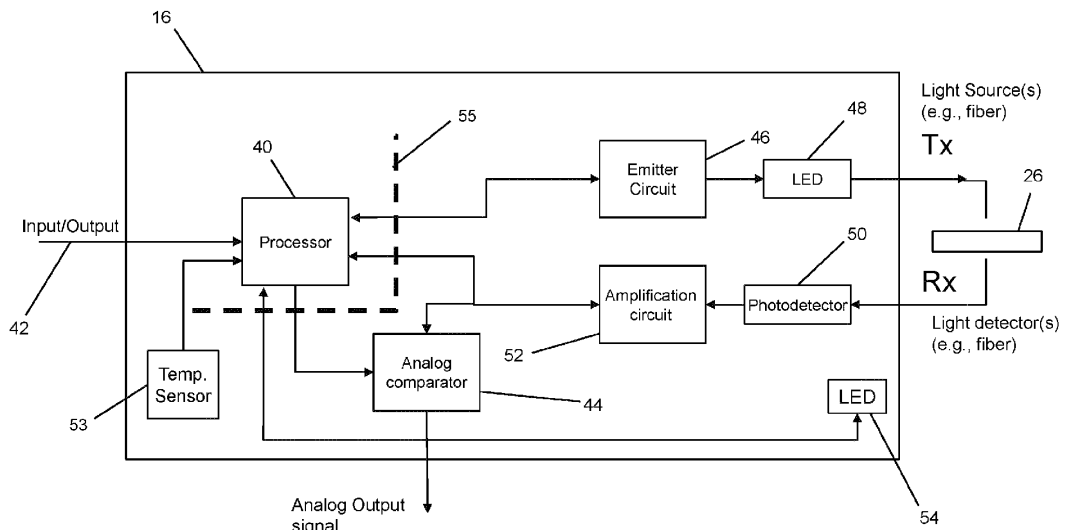


FIG. 2

(57) Abstract: Single board multi-channel programmable detection sensor is disclosed. The sensor has a processor operatively connected to the emitter driver, and a photodetector for controlling one or more operational parameters of the sensor in response to a program. Sensor outputs the TTL signal when desired level of light attenuated or transmitted through the system of fiber optics sensors. The processor sets triggering levels of the signal detected by the sensor in analog fast comparator circuit to threshold based on the signal difference pre-set and actual values.

[Continued on next page]

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