Docket #: S08-252

Fiber-optic Sensor Array Architectures

Optical apparatus and methods utilizing sensors operating in the reflection mode are provided. The apparatus includes at least one optical bus. The at least one optical bus is configured to be optically coupled to at least one source of input optical signals, to at least one optical detector, and to a plurality of reflective sensing elements. The at least one optical bus transmits an input optical signal from the at least one source to the plurality of reflective sensing elements. At least one reflective sensing element of the plurality of reflective sensing elements receives a portion of the input optical signal and reflects at least a portion of the received portion. The at least one optical bus transmits the reflected portion to the at least one optical detector.

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Applications

- The purpose of the sensor arrays we invented is to multiplex sensors in order to obtain information at a remote location.

Patents

- Published Application: 20130292555
- Issued: 9,234,790 (USA)

Innovators

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