

## Transverse-Longitudinal Integrated Resonator

### **Disclosure Number**

200000818

### **Technology Summary**

An optical cavity resonator that can function as an electro-optic modulator is built into an optical integrated circuit (IC). In a further embodiment, the tiny size of the resonator allows small amounts of external materials such as gases, vapors, or liquids to interact with light with very high efficiency. This aspect of the resonator makes possible the fabrication of miniature IC gas detectors and gas discharge lasers.

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