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(54) Title: EXTERNAL-CAVITY LASER WITH REDUCED FREQUENCY NOISE

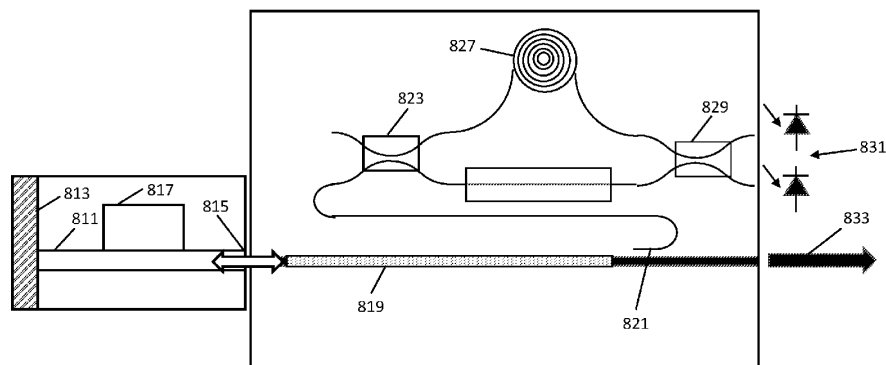


FIG. 8

(57) Abstract: A laser for a distributed fiber sensing system may have a frequency discriminator integrated with the laser. The laser may be an external cavity laser with at least a portion of the laser cavity on a planar lightwave circuit (PLC) which also include the frequency discriminator, wherein the PLC includes a wavelength selective component optically connected to a laser element of the laser, so as to provide wavelength selective feedback to the laser element.

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