Novel Parametric Light Generator and Monochromator

Tech ID: 21783 / UC Case 2011-289-0

TECHNOLOGY DESCRIPTION

Developed here is a fiber optical parametric amplifier to realize a wide-range tunable, high-sweep rate, frequency-swept light source. The invention provides for the following:

- Generation of fast, wide-band, wavelength swept light.
- Analysis of spectral content in arbitrary wavelength bands.
- Amplification and frequency conversion of selected spectral slices in a wideband optical signal.

APPLICATIONS

Applications for the above work can be found in:

- Frequency swept-light sources and spectral analyzers
- Optical add-drop multiplexers
- Fast tunable spectral discriminators
- Frequency controlled optical switches

INTELLECTUAL PROPERTY INFO

This work is fully prototyped and available to license worldwide.

PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	9,110,352	08/18/2015	2011-289
United States Of America	Issued Patent	8,482,847	07/09/2013	2011-289

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OTHER INFORMATION

CATEGORIZED AS

- **Optics and Photonics**
  - All Optics and Photonics
- **Communications**
  - Optical

RELATED CASES

2011-289-0