

# High-speed semiconductor lasers for communication - 10-11 February, 1997, San Jose, California

**SPIE - John Donegan : Trinity Research**

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Tags: #US9091413B2

## Nick McKeown: Recent Publications

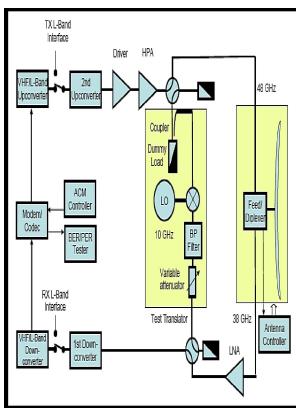
A compromise must be struck between narrow beamwidth and the ease of lining up. A more advanced fully spliced side-pumped fiber laser was developed by IPG Laser now a subsidiary of IPG Photonics. Fillers allow the adhesive formulator to tailor the electrical and thermal properties of a given epoxy.

## 20 Years of SPI Lasers

The IPM and cap in this embodiment are not cylindrically symmetrical having a greater width in the plane of FIG. After factoring in headaches such as long lead times and poor quality control, some businesses are deciding that it's just not worth it.

## SPIE Conference Proceedings

He serves on the Board on Physics and Astronomy of the National Academy of Sciences NAS , which is charged with looking after the health of physics and



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 c 1970 to c 1980  
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 History: World  
 Business/Economics  
 History - General History  
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 Weber, Timothy T  
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 Sociology  
 Literary studies: general

astronomy in the US. When reference is made to undoped here, it means that the semiconductor has an impurity concentration low enough that it is essentially undoped. Some recent developments in SESAM mode-locked DPSSLS , may allow further increases in repetition rate beyond the limits of the Tisapphire laser.

## Companies

In a self-aligned process, the grown native oxide simultaneously provides excellent electrical insulation, passivation of the etch-exposed bipolar active region, and smoothing of etch roughness. Each alternating layer pair is called a mirror period 143. The choice of axes, however, is arbitrary and is made solely for the sake of convenience in describing embodiments of the invention.

## Companies

When the optical gain is equal to the loss in the two mirrors, laser oscillation occurs. In addition, the VCSEL optimized for reduced parasitic lateral current under an oxide of the VCSEL by forming a high Al confinement region and placing the oxide at a null in a standing optical wave. The advanced direct diode laser line establishes new performance, reliability and cost standards for this class of systems and opens the door for various new applications in material processing.

## US9091413B2

Vertical cavity surface emitting laser having a gain guide aperture interior to an oxide confinement layer 2001-12-28 2003-07-03 Villareal Samuel S. As previously described above, oxide layer 125 includes an oxide that is thin and is tapered to a point. He joined the National Renewable Energy Laboratory NREL in 1985 and was a Laboratory Fellow and Manager of the Theoretical Materials Science Group before he joined the CSRC in 2015.

## SPIE Conference Proceedings

Optoelectronic device for coupling between an external optical wave and a local optical wave for optical modulators and detectors 1994-10-13 1998-07-07 Nec Corporation VCSELs vertical-cavity surface emitting lasers and VCSEL-based devices 1994-11-29 1996-06-25 Motorola, Inc.

## SPIE Conference Proceedings

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February, 1997, San Jose, California  
Notes: Includes bibliographic references and author index.  
This edition was published in 1997

In conventional VCSEL designs, the bottom mirror 116 may include about 30 to 35 mirror periods. This may also be a challenge simply because the sidebands created by modulation cause a substantial extra spectral bandwidth.



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