

The patent dispute over optical modules



AI Overview

Applied Optoelectronics v. Molex highlights the high-stakes patent litigation in optical transceiver technology, resolved through a settlement after 200 days of litigation. Overview of the AOI v. Molex Case

Applied Optoelectronics, Inc. (AOI), a leading developer of fiber-optic networking products, filed a patent infringement lawsuit against Molex, LLC on September 18, 2023, in the Northern District of California. The dispute involved six U.S. patents covering optical transceiver technologies, including pluggable and high-speed optical transceiver modules, and targeted Molex products such as the 100G QSFP28 PSM4, QSFP CWDM4, and QSFP-DD DR4+ transceivers used in 100G and 400G data center interconnects (AOI v. Molex). The patents asserted by AOI addressed core optical transceiver components and module designs, including optical assembly, coupling, and high-speed signal transmission, which are foundational for low-latency, high-bandwidth data center infrastructure. AOI sought monetary damages and a permanent injunction to protect its intellectual property. The case was resolved by dismissal with prejudice on April 5, 2024, following an in-principle settlement, demonstrating the strategic value of early resolution in high-tech IP disputes.

Other Notable Optical Module Patent Cases

In addition to AOI v. Molex, other disputes have involved patents covering fiber optic modules and chassis systems. For example, patents such as the '320, '456, '153, and '206 relate to fiber optic apparatuses, including modules, trays, and adapters that support optical connections in data centers. In one case, the ALJ found that certain high-density fiber optic modules infringed multiple claims of these patents, highlighting the complexity of infringement analysis in modular optical systems. Another case, Core Optical Technologies, LLC v. Nokia, involved the '211 patent, which claimed innovations in cross-polarization interference cancellation (XPIC) to improve optical signaling efficiency. This patent enabled the transmission of two ind...

Article Content

United States Court of Appeals for the Federal Circuit

Between November 2019 and August 2020, Core Optical Technologies, LLC filed complaints in the U.S. District Court for the Central District of California alleging infringement of U.S.

Sangbo Prevails Against LMS in Patent Dispute Over Optical Sheet

LMS originally filed a patent infringement lawsuit against Sangbo in November 2020, targeting two of its optical sheet module patents: KR1268085 ("Optical Sheet Module Having Optical

Sangbo Prevails Against LMS in Patent Dispute Over Optical Sheet

Sangbo has successfully countered LMS's patent infringement claims, securing both the invalidation of one patent and a favorable ruling in the first instance on another.

German court rules in favor of Q Cells in patent dispute

A German court has issued a preliminary injunction ordering Trina Solar to stop selling its Honey and Vertex X solar modules in Germany, as they

PUBLIC VERSION UNITED STATES INTERNATIONAL TRADE

Siemon; (2) the ID's interpretation of the "width of the front side of fiber optic module" limitation in the asserted claims of the '456 patent, and the associated infringement findings;

Patent and IP Disputes in Fiber Optic Technology: When to Bring in an ...

Discover how fiber optic engineering experts assess patent infringement, differentiate design flaws from infringement, and play a crucial role in resolving intellectual property disputes in

Applied Optoelectronics v. Molex: Optical Transceiver Patent Dispute ...

Case Overview In a closely watched optical networking patent dispute, Applied Optoelectronics, Inc. (AOI) and Molex, LLC reached a settlement in principle after just 200 days of litigation—bringing

Global disputes over solar PV patents are on the rise

Maxon's global disputes A number of high-profile global disputes over solar technology in recent years have involved the Singapore-based company

Patent litigation and Patent Office procedures dominate

February's photonics-related IP activities featured 18 patent litigation and Patent Office procedures concerning various technologies, including optical

directory-list-2.4.txt/directory-list-2.4.txt at main

Customer stories Events & webinars Ebooks & reports Business insights GitHub Skills ...

United States Court of Appeals for the Federal Circuit

Corning Optical Communications LLC (Corning) filed a complaint with the Commission alleging FS was violating § 337 by importing high-density fiber optic equipment that infringed U.S.

PUBLIC VERSION UNITED STATES INTERNATIONAL TRADE

456 patents. Having found Leviton liable for violating section 337 der a theory of indirect infringement, the Commission takes no position on Corning's direct infringement claim against Leviton...

NextGen Innovations v. Nokia: Optical Networking Patent Dispute

Analysis of NextGen Innovations v. Nokia patent infringement case (Case No. 2:23-cv-00637) in Texas Eastern District Court — optical networking patents dismissed with prejudice after

Applied Optoelectronics v. Molex: Optical Transceiver Patent Dispute ...

For patent attorneys tracking assertion strategies in photonics and fiber optic IP, IP professionals monitoring transceiver industry licensing trends, and R& D teams navigating freedom-to-operate

How will PV's intellectual-property scuffles shake out?

Balancing act Verlinden acknowledged PV patent disputes represent a somewhat “difficult issue” for him.

Applied Optoelectronics v. Molex: Optical Transceiver Patent Dispute ...

Filed on September 18, 2023, in the Northern District of California before Chief Judge Jon S. Tigar, the optical transceiver patent infringement action centered on six U.S. patents covering fiber-optic

ams OSRAM, Meizhi settle LED patent disputes

ams OSRAM and Shenzhen Meizhi Optoelectronics Technology have settled LED-related patent disputes in the US and Germany. The

PetaPixel | Photography and Camera News, Reviews,

PetaPixel is a photography news site that covers photo and camera news, reviews, inspiration, and education.

Applied Optoelectronics settles patent dispute with Molex

Following the settlement of its patent infringement litigation with Molex, LLC, Applied Optoelectronics, Inc. (NASDAQ: AAOI) continues to navigate the competitive fiber-optic network...

Involving TOPCon cell module technology, JinkoSolar sued LONGi

Tianyancha App shows that LONGi Green Energy recently added a new case, the relevant cause of action is a dispute over infringement of invention patent rights, the plaintiff is Shangrao

Patent litigation and Patent Office procedures dominate this month's ...

On February 2, the Patent Trial and Appeal Board (PTAB) of the U.S. Patent Office agreed to institute an Inter Partes Review (IPR) of U.S. Patent No. 7,198,416, owned by Innoes LLC, a

Major CRISPR patent decision won't end tangled

NEWS 09 March 2022 Major CRISPR patent decision won't end tangled dispute Fights over who invented the gene-editing technology are becoming more

Applied Optoelectronics v. Molex: Optical Transceiver Patent Dispute ...

In a case that underscores the high commercial stakes surrounding next-generation optical interconnect technology, Applied Optoelectronics, Inc. (AOI) filed a patent infringement action against Molex, LLC

AOI Files Patent Lawsuit Against Molex

Applied Optoelectronics, Inc. (Nasdaq: AAOI), a leading provider of fiber-optic access network products for the cable broadband, internet datacenter, telecom and fiber-to-the-home

PTAB Issues Mixed Ruling in Optronic vs. BOE Patent Dispute

The Patent Trial and Appeal Board (PTAB) has issued a mixed ruling in the ongoing intellectual property dispute between Optronic Sciences LLC and Chinese electronics giant BOE

A new Unified Patent Court dispute over laser tech has become ...

A new Unified Patent Court dispute over laser tech has become discoverable: TRUMPF Laser UK is suing IPG Laser GmbH & CO. KG in the Mannheim Local Division over EP2951625 ("fibre optical

TOPCon patent war "white-hot": Why are the top five module ...

Publicly, module manufacturers have gone to great lengths to call for respect for intellectual property rights. However, in the patent disputes that have occurred in the past year, the five major module

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.introspec.co.za>

Email: info@introspec.co.za

Phone: +27 73 849 2156

Address: 25 Riebeek Street, Cape Town, 8001, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

