

# Patents for Fiber Optic Collimators



## Overview

This includes chemicals mentioned, as reported by PubChem contributors, as well as other content, such as title, abstract, and International Patent Classification (IPC) codes. To read more about how this page was constructed, please visit the PubChem patents help page. A method and apparatus of aligning a collimator assembly requiring only a single-axis adjustment and for which the collimator may be paired with any other similarly aligned collimator. A collimator typically includes a fiber grasped by a ferrule. Both the ferrule and a graded-index (GRIN) lens are. Abstract: Fiber optic collimators are disclosed for use in fiber optic rotary joints (20) providing for improvement in insertion loss performance. The use of the FLICE technique allows for extremely precise channels to be formed which allows for fibers to be aligned more closely with their in-tended. This web page summarizes information in PubChem about patent US-10156677-B1.



## Article Content

US6567586B2

The present invention is directed to a fiber collimator and more specifically to a fiber collimator for use in an optical transmission system and/or an optical sensor system.

CONNECTORIZATION AND COUPLING OF OPTICAL-FIBER COLLIMATORS

Each time the laser light is coupled from one optical fiber to another, the potential exists for a substantial fraction of the laser light to be lost. Thus, much effort has been devoted to making low-loss fiber-to ...

WO/2024/177814 CONNECTORIZATION AND COUPLING OF OPTICAL-FIBER COLLIMATORS

Accurate alignment of the connectorized optical-fiber collimator in fiber-to-fiber and fiber-free-space couplings is achieved through mechanical registration of the planar reference surface and ...

WO/2024/177814 CONNECTORIZATION AND COUPLING OF ...

Accurate alignment of the connectorized optical-fiber collimator in fiber-to-fiber and fiber-free-space couplings is achieved through mechanical registration of the planar reference surface and ...

GLASS FIBER HOLE PLATES FOR 2D FIBER COLLIMATORS ...

Current fabrication techniques used to create hole plates which are used in fiber collimators have an upper limit in terms of the precision in which holes within the plate can be formed to house optical ...

Compact optic delay lines using dual fiber collimators and roof prisms ...

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Low-loss collimators for use in fiber optic rotary joints

Abstract Fiber optic collimators are disclosed for use in fiber optic rotary joints (20) providing for improvement in insertion loss performance. One embodiment of the fiber optic collimator has a ...

Fiber Optic Collimators: Types, Applications, and How to Choose

Learn about types, principles, applications, and selection criteria of fiber optic collimators. Explore GRIN, reflective, achromatic options.

Fiber optic collimator apparatus and method

Embodiments of the present invention are directed to a compact and stable fiber optic collimator that takes light from one or more optical fibers and generates one or more beams of collimated...

#### System and method for aligning optical fiber collimators

A large number of one-fiber collimators were aligned and assembled as described above. Sixteen pairs of the collimators were randomly selected, and the insertion loss was measured as light...

#### Patents Assigned to Focal Technologies Corporation

Abstract: Fiber optic collimators are disclosed for use in fiber optic rotary joints (20) providing for improvement in insertion loss performance. One embodiment of the fiber optic ...

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Website: <https://www.budowasilesia.pl>

Email: [contact@budowasilesia.pl](mailto:contact@budowasilesia.pl)

Phone: +48 537 192 846

Address: ul. Chorzowska 45, 40-001 Katowice, Silesian Voivodeship, Poland

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