Fiber Optic Coupler Patents



Overview

This page includes the patent name, patent number, legal status, invention/applicant, technical efficacy and accompanying drawings of Fiber optic coupler-related invention patents and utility model patents, which can be searched for their Fiber optic. This page includes the patent name, patent number, legal status, invention/applicant, technical efficacy and accompanying drawings of Fiber optic coupler-related invention patents and utility model patents, which can be searched for their Fiber optic. A method for the fabrication of a fiber optic coupler includes a step of fusing together two optical fibers along their longitudinal sections by heating them and a step of stretching the two optical fibers independently of one another with different conditions of tension and/or temperature so that. PatSnap Eureka AI that helps you search prior art, draft patents, and assess FTO risks, powered by patent and scientific literature data. A fiber-optic adapter connects two optical fiber connectors in the fiber optic lines. Fiber optic cables are widely used to transmit light signals for high speed data transmission. A fiber optic cable typically includes: (1) an optical fiber or optical fibers; (2) a buffer or buffers that surrounds the fiber or fibers; (3) a strength layer that surrounds the buffer or buffers; and. MTP ®, MTP ® PRO, MTP Elite ®, MTP-16™, MXC ®, MT Elite ®, PRIZM ®, LightTurn ®, PRIZM ® MT, ELiMENT ®, IBC™, and Eliminator™ are trademarks or registered trademarks of US Conec Ltd. NEOCLEAN ® is a registered trademark of NTT Advanced Technology Corporation.

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Article Content

Method of fabricating a fiber optic coupler

By stretching the one optical fiber 11 in step A to make its propagation constant different from that of the other optical fiber 14 as mentioned above, it is possible to fabricate a fiber...

Fiber optic coupler patented technology retrieval search results ...

PatSnap Eureka AI that helps you search prior art, draft patents, and assess FTO risks, powered by patent and scientific literature data. A fiber-optic adapter connects two optical fiber connectors in the

1xN fiber optic coupler and corresponding method of

This invention relates to fiber optic couplers and, more particularly, to 1xN couplers (N>2) that are capable of coupling substantially

U.S. Patent for Hardened fiber optic connector Patent (Patent ...

The present disclosure relates to a fiber optic connector for use with a fiber optic adapter. The fiber optic connector includes a connector housing having an end defining a plug portion. A

(12) United States Patent (10) Patent No.: US 8,254,735 B2

To enable proper coupling, an optical fiber cou pler includes adjustable optics that generally align a received light beam with an optical axis of a fiber collimator, used to direct the light beam into the

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

Infrared optical fiber coupler

To read more about how this page was constructed, please visit the PubChem patents help page. An infrared fiber optic coupler and a method for making an infrared fiber optic coupler are disclosed.

Fiber-To-Chip Coupler | NIST

The optical fiber is located at least in part above the tapered-waveguide region, and has a core diameter that adiabatically decreases within a taper length of the tapered-fiber section.

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Founded in 1985, OZ Optics Limited designs, manufactures and markets fiber optic components for existing and next-generation optical networks and systems based on proprietary

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The Malaysia Precision Fiber Optic Couplers Market is witnessing significant growth as the adoption of artificial intelligence expands across industries. The market is expected to register a ...

Excimer Lasers vs Fiber Lasers: Which Achieves Higher UV Photon

UV photon beam delivery and optical coupling systems: Systems for efficient delivery and coupling of ultraviolet photons from both excimer and fiber lasers, including beam guidance, focusing

Fiber to chip optical coupler

An optical coupler for coupling an optical fiber to a photonic integrated circuit (PIC) is presented. The optical coupler comprises a first curved mirror included in a first substrate layer of the PIC and at a

US4448478A

G02B6/325 Optical coupling means having lens focusing means positioned between opposed fibre ends comprising a transparent member, e.g. window, protective plate G02B6/387 Connector plugs

Method of manufacturing a fused-fiber optical coupler

Method of manufacturing a fused-fiber optical coupler Abstract The method consists of first splicing (FIG. 2) one short length of a single-mode fiber (3, 4) into each of the optical fibers (1, 2) of fibers lying

Fiber-waveguide evanescent coupler

Methods, systems, and devices are disclosed for implementing a fiber-waveguide evanescent coupling. In one aspect, a device having integrated photonic components includes a substrate, a waveguide

U.S. Patent for Fiber optic connector assemblies including a bonding ...

Justia Patents U.S. Patent for Fiber optic connector assemblies including a bonding agent, along with related methods Patent (Patent # 12,197,016)

US4699453A

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Fiber optic couplers are typically used to apply modulated light to an optical fiber from an emitting source and to apply light received from the fiber to a detecting element. Such couplers can also be used to

HIGH-EFFICIENCY FIBER-TO-WAVEGUIDE COUPLER

Currently, one of the most significant limiting factors facing integrated photonics is the difficulty in interfacing with fiber optics. In coupling light from a fiber to a waveguide, several decibels

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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