

Patents related to fiber optic connectors



AI Overview

Recent patents in fiber optic connectors focus on innovative designs and improved functionalities, enhancing efficiency and reliability in optical networks.

Key Patents and Innovations

- US4448478A - Fiber Optic Connector:** This patent describes a fiber optic connector that features a design allowing for low loss mating between connector elements. The connector includes ferrules that are optically aligned to minimize light transmission losses, ensuring efficient signal transfer.
- Adjustable Polarity Connectors:** Recent patents have introduced connectors with adjustable polarity, allowing for easier installation and maintenance. These designs are particularly beneficial in high-density applications, accommodating a larger number of fiber optic connectors while reducing the overall footprint.
- Senko's New Patents:** Senko has recently been granted several patents, including a reversible polarity fiber optic connector (US11747572B2) and an enhanced connection system designed for high-density applications. These innovations aim to improve the efficiency and reliability of optical networks, showcasing Senko's commitment to advancing fiber optic technology.
- Methods for Making Fiber Optic Connectors:** Another patent discusses methods for creating fiber optic connectors with improved designs, focusing on simplifying the manufacturing process while enhancing performance. This includes features that allow for quicker connections and disconnections compared to traditional splicing methods.

Conclusion

The landscape of fiber optic connector patents is evolving, with a focus on enhancing connectivity solutions through innovative designs and improved functionalities. Companies like Senko are at the forefront of this advancement, ensuring that fiber optic technology continues to meet the growing demands for high-speed data transmission and network reliability. For more detailed information, you can explore specific patents through patent databases or company announcements.

Article Content

U.S. Patent for MPO optical fiber connector Patent (Patent

A multiple push-on (MPO) optical connector is provided having a ferrule configured to house multiple optical fibers and a housing having a distal end in a connection direction configured to

U.S. Patent Application for FIBER OPTIC CONNECTORS AND FIBER OPTIC ...

The present disclosure relates to a system for making or assembling fiber optic connectors that allows a pre-terminated fiber optic cable to be made compatible with any number of different styles or types of

Optical fiber connector patented technology retrieval search results ...

Fiber optic connectors having an optical fiber stub that is fusion-spliced for optical connection and related tools for the fiber optic connectors are disclosed.

U.S. Patent Application for OPTICAL CONNECTORS WITH

Fiber optic connectors and connectorized fiber optic cables include connector housings having locking portions defined on the connector housing that allow the connector housing to be

COMPACT FIBER OPTIC CONNECTORS

To address this need for making optical connections in communication networks for outdoor environments hardened fiber optic connectors were developed.

MULTIFIBER FIBER OPTIC CONNECTORS

One of the most commercially successful hardened fiber optic connector is the OptiTap® connector sold by Corning Optical Communications LLC of Hickory, North Carolina, such as disclosed in U.S. Pat.

US20190137700A1

MPO Optical Fiber Connector Abstract A multiple push-on (MPO) optical connector is provided having a ferrule configured to house multiple optical fibers and a housing having a distal end in a connection

Fiber optic connector with fiber end protection

the fiber optic connectors 69 into the ports of the fiber optic adapter 64 causes the end portions 100" of the optical fibers 100 to enter an optical fiber alignment device 20 incorporated within the fiber optic

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

A sealing member is mounted about an exterior of the connector housing for providing a seal between the connector housing and the adapter. The fiber optic connector further includes first

FIBER OPTIC CONNECTORS AND FIBER OPTIC CONNECTION

The present disclosure relates to a system for making or assembling fiber optic connectors that allows a pre-terminated fiber optic cable to be made compatible with any number of different styles or types of

Optical Fiber Patents (Class 359/341.1)

Search for Optical Fiber Patents and Patent Applications (Class 359/341.1) Filed with the USPTO

US4448478A

In the design of optical fiber connectors it is necessary for the mating connector elements to mate with the fibers in the two elements accurately aligned one with the other to minimize light...

Expanded beam fiber optic connector

A fiber optic connector requires mutual alignment of respective fiber cores in a repeatable separable interconnect. The connector must also maintain performance characteristics over multiple matings

FIBER OPTIC CONNECTOR

Fiber optic connectors allow two optical fibers to be quickly optically connected without requiring a fusion splice. Fiber optic connectors can be used to optically interconnect two lengths of optical fiber.

US11828989B2

The present disclosure relates to a fiber optic adapter having a footprint/form factor compatible with an SC adapter mounting structure or an LC adapter mounting structure or both the SC and LC adapter

EP3796060A4

JP2005189332A 2003-12-24 2005-07-14 Three M Innovative Properties Co Optical connector, optical fiber with connector, optical fiber connecting apparatus and method for connecting optical fiber

US20190004252A1

Fiber optic connectors and connectorized fiber optic cables include connector housings having locking portions defined on the connector housing that allow the connector housing to be selectively coupled

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

Reversible polarity MPO fiber optic connector

Fiber optic connectors used for larger high-speed fiber optic systems often use multi-fiber cables supporting many bi-directional pathways. In one example the cables typically have 12 fibers in the

US6757467B1

Optical fiber system Abstract An optical fiber has a small diameter core for transmitting one or more wavelength multiplexed first light signals in a first direction, and an inner cladding for transmitting a

Senko Advances Fiber Optic Connectivity with Newly

The patents encompass a range of groundbreaking solutions, including a reversible polarity fiber optic connector, an enhanced connection system, and cutting-edge

US6901191B2

The fiber optic cable may exclude a grease or a grease-like composition being in contact with the at least one bundle for filling interstices of the cable thereby blocking water from flowing through the

U.S. Patent Application for FIBER OPTIC CONNECTORS HAVING A

Fiber optic connectors having a sealing gasket disposed on a portion of the ferrule assembly and methods of making the same for inhibiting moisture, dirt, debris or dust from reaching

OPTICAL FIBER TERMINATION STRUCTURE, OPTICAL

The optical connection component of the present embodiment is a component in which the two optical fiber termination structures (the first optical fiber termination structure including the spacer 9, the

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