

## Patents for Fiber Optic Sensors



### Overview

This page includes the patent name, patent number, legal status, invention/applicant, technical efficacy and accompanying drawings of Fiber optic sensor-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 sensor-related invention patents and utility model patents, which can be searched for their Fiber optic. A fiber optic sensor and related method are described, with the sensor including a cross-coupling element in the optical path between a polarizing element and a sensing element, but separated from the sensing element itself; with the cross-coupling element generating a defined cross-coupling. Justia Patents Patents Assigned to Fiberoptic Sensor Technologies, Inc. Abstract: An improved fiberoptic pressure sensing system is disclosed by tapering the tip end of an optical fiber, or alternatively, by tapering or bundling a fiber or group of fibers within a connector. By selectively joining. 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 sensor is a sensor that uses optical fiber either as the sensing element ("intrinsic sensors"), or as a means of relaying signals from a remote. Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. An optic circuit for identifies a wavelength attenuated by the LMR coating from the return signal reflected by the reflective coating based on a moisture presence at the sensory portion.

## Article Content

Fiber optic sensor 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.

US5900215A

A method is provided for manufacturing a fiber optic sensor for detecting or measuring a parameter of interest in a sample fluid, including pH, concentration of dissolved gases such as O<sub>2</sub> or CO<sub>2</sub>, and

OPTICAL FIBER SENSOR

In particular, the present invention relates to an optical fiber sensor which allows separation of a common-mode signal into temperature-induced and strain-induced contributions.

Fiber optic sensor patented technology retrieval search results ...

This page includes the patent name, patent number, legal status, invention/applicant, technical efficacy and accompanying drawings of Fiber optic sensor-related invention patents and utility model patents,

US7781724B2

The present invention is directed toward a fiber optic position and shape sensing device and the method of use. The device comprises an optical fiber means. The optical fiber means comprises either at

Fiber-optic temperature and flow sensor system and methods

Fiber-optic temperature and flow sensor system and methods Abstract A fiber optic sensor, a process for utilizing a fiber optic sensor, and a process for fabricating a fiber optic sensor are described, where a

Fiber Optic Shape Sensors: A comprehensive review

Abstract Fiber Optic Shape Sensing is an innovative Optical Fiber Sensing Technology that uses a fiber optic cable to continuously track the 3D shape and position of a dynamic object (with

EP0100517B1

An optical fiber sensor in accordance with claim 1 or 2, wherein said second light transmission path in the inner portion thereof is constituted by an image transmitting fiber bundle (306).

NETL patents fiber-optic hydrogen leak sensor technology

Researchers from NETL have received a patent for a new fiber optic sensor that can save time and money compared to conventional methods when used to detect hydrogen (H<sub>2</sub>) leaks

Patents Assigned to Fiberoptic Sensor Technologies, Inc.

Abstract: An improved fiberoptic pressure sensing system is disclosed by tapering the tip end of an optical fiber, or alternatively, by tapering or bundling a fiber or group of fibers within a connector.

Patents | Optical Networking | Research | NEC Labs

Our Optical Networking & Sensing department develops new optics and photonics patents spanning the Internet backbone to the home.

US5381492A

A fiber optic vibration sensor utilizes two single mode optical fibers supported by a housing with one optical fiber fixedly secured to the housing and providing a reference signal and the other optical fiber

Patent Analytics Report on Fiber Optic Sensors

The map below breaks down fiber optic sensor patenting activity priority country wise from 1960. The table below ranks top priority countries and

Adaptive Spatial Resolution Enables Focused Fiber

This advanced fiber optic sensing innovation developed at NASA's Armstrong Flight Research Center offers a unique combination of high-resolution processing and

US11668873B2

A fiber optic sensing device includes an optical fiber having a polished end defining a flat sensory portion coated with a lossy-mode-resonance (LMR) coating. A reflective coating on an end face of the optical

EP2176645A1

A sensor based on optical fiber technology is described. The sensor includes an elongate core for propagating light having an excitation wavelength; an interaction region that includes a fluorescent

Method and system for high sensitivity in distributed fiber sensing ...

Distributed fiber sensing system including a laser source, a circulator, a detector and an optical fiber, the circulator coupled with the laser source, the detector and the optical fiber, the laser

US5900215A

The present invention relates generally to fiber optic sensors for measuring one or more parameters of a sample fluid. More particularly, the invention relates to a novel method for...

US5063781A

Fiber-optic vibration sensor Abstract The sensor comprises a vibrating sheet (1), mechanically connected to the body (5A) to be analyzed, and an optical triangulation recording system for

EP2176645A4

G—PHYSICS G02—OPTICS G02B—OPTICAL ELEMENTS, SYSTEMS OR APPARATUS G02B6/00—Light guides; Structural details of arrangements comprising light guides and other optical

US11668873B2

This patent application claims the benefit under 35 U.S.C. § 119 (e) of U.S. Provisional Patent App. No. 63/141,844, filed Jan. 26, 2021, entitled "OPTIC FIBER SENSORS," incorporated...

NETL patents fiber optic sensor technology for H

NETL researchers have been awarded a patent for a new fiber optic sensor designed to detect H2 leaks at storage facilities that can save time and

Patents Assigned to Fiber SenSys LLC

Abstract: An optical sensor includes a support structure. An optical fiber has a plurality of bends arranged proximate the support structure. The optical fiber follows a circuitous path and is

U.S. Patent Application for FIBER IDENTIFICATION WITHOUT CUT

The systems and methods locate a targeted fiber in a cable ("Cable ID") and then identify the targeted fiber ("Fiber ID") by detecting DFOS signal attentions—without cutting the optical fiber.

Fiber-optic sensor

A fiber-optic sensor is a sensor that uses optical fiber either as the sensing element ("intrinsic sensors"), or as a means of relaying signals from a remote sensor to the electronics that process the signals

Special Issue "Fiber Optic Sensors and Applications": An Overview

We present here the recent advance in exploring new detection mechanisms, materials, processes, and applications of fiber optic sensors. Keywords: fiber optic sensors, detection mechanisms, materials,

OPTICAL FIBER SENSOR, OPTICAL SYSTEM AND METHOD OF

In particular, the present invention relates to an optical fiber sensor suitable for use in optical shape sensing. The invention also relates to an optical system comprising an optical fiber

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