

Patent Analysis of Fiber Optic Sensor Technology



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 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 ("extrinsic sensors"). Fibers have many uses in remote sensing. Depending on the. Patsnap Eureka AI that helps you search prior art, draft patents, and assess FTO risks, powered by patent and scientific literature data. This invention provides a method for controlling production operations using fiber optic devices. An optical fiber carrying fiber -optic sensors is deployed. With the help of Patent iNSIGHT Pro, we will analyze the all the patent data around Fiber Optic Sensors to find answers to the following: What does the IP publication trend for Fiber Optic Sensors look like and how has activity around filings evolved?

Who are the top assignees or key players in. This application relates to fibre optic sensing, such as fibre optic distributed acoustic sensing, with detection/monitoring of the characteristics of the environment surrounding the fibre optic. Our Optical Networking & Sensing department develops new optics and photonics patents spanning the Internet backbone to the home.



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Patsnap Eureka AI that helps you search prior art, draft patents, and assess FTO risks, powered by patent and scientific literature data. This invention provides a method for controlling production

GB202108396D0

G01D5/35306 Mechanical means for transferring the output of a sensing member; Means for converting the output of a sensing member to another variable where the form or nature of the sensing...

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 helps provide an indication of where

EP2867626B1

This application relates to fibre optic sensing, such as fibre optic distributed acoustic sensing, with detection/monitoring of the characteristics of the environment surrounding the...

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U.S. Patent Application for OPTICAL FIBER SENSING DEVICE AND OPTICAL ...

An object of the present invention is to provide an optical fiber sensing device and an optical fiber sensing method that enable accurate measurement even under the condition that strain

OPTICAL FIBER SENSOR

Optical shape sensing allows a physician to navigate medical devices during a procedure without the need of X-ray tracking. In optical shape sensing, an optical fiber sensor, also referred to as

Fiber Optic Sensing Technologies | T2 Portal

Known as FOSS (for fiber optic sensing system), NASA's patented, award-winning technology portfolio combines advanced sensors and innovative algorithms into a robust package that accurately and

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

Fiber optic sensor patented technology retrieval search results ...

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

Optical fiber sensors in biomedical: trends and emerging research - A ...

Optical fiber sensors represent a rapidly advancing technology with substantial applications across various fields, particularly in the biomedical domain. The unique properties of

Fiber Optic Shape Sensors: A comprehensive review

This paper presents an ambitious review of the current state of the art of Fiber Optic Shape Sensors (FOSS) based on Optical Multicore Fibers (MCF) or multiple optical single-core fibers with

Optical Fiber Sensors: Working Principle, Applications, and Limitations

Fiber-optic technology emerged originally for applications in data transmission and telecommunications. However, sensors based on fiber-optics have been developed rapidly because

Fiber Optic Sensor Technology: Introduction and Overview

This chapter aims to highlight some of the major developments, considered in more detail in the subsequent chapters of this series on Optical Fiber Sensor Technology, and to set the scene for a

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Fiber Optic Sensors and Their Applications

In parallel with these developments, Fiber optic sensor technology in turn has often been driven by the development and subsequent mass production of components to support these industries. As

Optical fiber sensors in infrastructure monitoring: a comprehensive ...

Abstract The purpose of this article is to review and further promote the application of optical fiber sensor technology in infrastructure monitoring. Compared with traditional sensors, optical

NETL Patents Fiber Optic Sensor Technology for Hydrogen Leak

NETL researchers have been awarded a patent for a new fiber optic sensor designed to detect hydrogen (H₂) leaks at storage facilities that can save time and money compared to traditional methods —

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

