

Title (en)
BRAGG GRATING OPTICAL FIBRE SENSOR ASSOCIATED WITH A SCATTERING STRUCTURE AND METHODS FOR LOCATING AND INSTALLING SUCH A SENSOR

Title (de)
FASEROPTISCHES BRAGG-GITTER MIT EINER STREUENDEN STRUKTUR UND VERFAHREN ZUR LOKALISIERUNG UND INSTALLATION EINES SOLCHEN SENSORS

Title (fr)
CAPTEUR À FIBRE OPTIQUE À RÉSEAU DE BRAGG ASSOCIÉ À UNE STRUCTURE DIFFUSANTE ET PROCÉDÉS DE LOCALISATION ET D'INSTALLATION D'UN TEL CAPTEUR

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Application
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Abstract (en)
[origin: WO2019243745A1] The invention concerns the field of integrated health monitoring using Bragg grating optical fibre sensors. It concerns such a sensor and methods for locating and installing this sensor on a support. According to the invention, the Bragg grating optical fibre sensor (30) comprises an optical fibre (31) in which at least one set of patterns (33) forming a Bragg grating is written, the optical fibre further comprising a set of microstructures (32) in the vicinity of each Bragg grating, the microstructures being separate from the patterns forming the Bragg grating, each microstructure (32) being capable of scattering a portion of a light beam within a predetermined range of scattering wavelengths.

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