upna

Universidad Pública de Navarra
Nafarroako Unibertsitate Publikoa

Reference

P-201305

Intellectual Property Rights

Granted patent (2015)

IPR Territory

Spain

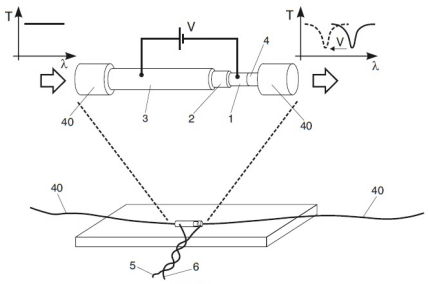

FIG. 1

Schematic representation of the invention when a broad spectrum white light source is used as the emitting device.

Electrically tunable photonic device

Device to be applied as a tunable fiber optic filter or a sensor. The filtering technique is based on the generation of one or several lossy mode resonances through the deposition of nanostructured coatings of absorbent materials.

Usefulness and innovative aspects

The photonic device of the invention can be used mainly as a fiber optic tunable filter. It is based on absorbent material coatings that allow generating lossy mode resonances (LMR), and combines the advantages of a portable fiber optic design with a small size, together with the advantage of simplifying the manufacturing process of the device by using the own fiber as a substrate.

Applicability

The device can be used:

- Communications field: as a tunable optical filter.
- Electrical installations: to measure voltages, currents and as an electrically tunable sensor.

Contact

Universidad Pública de Navarra
Campus Arrosadia
Edificio de Rectorado
31006 Pamplona
servicio.investigacion@unavarra.es 948169782

Offer porfolio

http://www.unavarra.es/investigacion/grupos-de-investigacion-y-oferta-cientifica-y-tecnologica/cartera-de-ofertas-patentes-y-tecnologías

Offer availability

Available for transfer by means of licensing