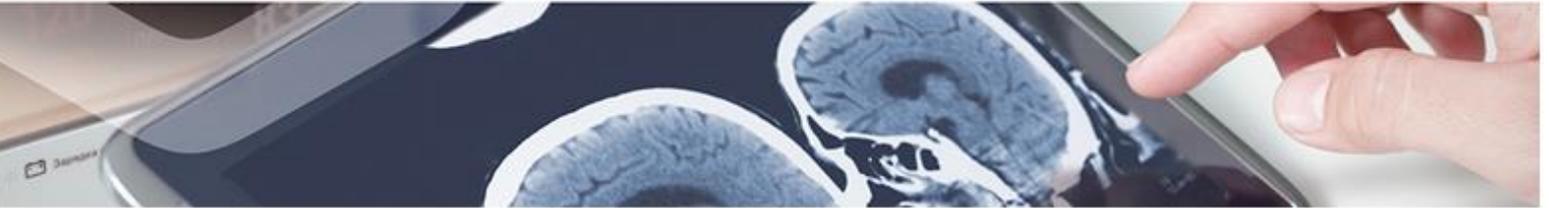


Medical Device

Endoscopic fluid application device

A research group from the Andalusian Public Health System in collaboration with the University of Seville, has developed an endoscopic device designed to apply a fluid in a confined area within the surgical field.



Description of the offer

There are endoscopic surgical procedures in which it is necessary to apply a certain fluid to a specific point on a wall or organ within the surgical field. For example, this occurs when you want to apply a hemostatic agent to an internal incision made through endoscopic procedures. This procedure has the drawback that the application of the fluid is not limited to the specific point where it is needed, but is distributed over a wider area around said point. Furthermore, the presence of material "detached" from the tip of a conventional tubular applicator can cause clusters of material or filaments that, eventually, can obstruct holes or conduits and thus cause thrombosis or heart attack.

Haemostatic agent applicators have already been described consisting of a tube at the end of which is arranged a cup formed by a cylindrical wall with a closed upper end. However, they present the problem that, due to the small thickness of the side walls of the cup, they do not allow to achieve a good seal.

In this context, we have developed a Fluid Endoscope Applicator Device (DAFE) comprising a tubular element whose distal end has flexible flanges that protrude laterally from it. Thus, when the device is inserted through the catheter, the flanges fold elastically and allow the device to move longitudinally along the catheter. When the distal end of the device comes out through the distal end of the catheter, the ridges unfold and revert to their original shape. In this way, they can be supported around the point where you want to apply the fluid to provide an excellent seal

The device can be used in any patient who requires an endoscopic access to apply some material in a gel or similar fluid state (bio-repair materials, bio-glues, stem cells on support substances, etc.) and with any endoscope or neuroendoscope.



Advantages of the offer

- It allows the continuous administration of biorepair or hemostatic materials by endoscopic route, as well as the direction of the exit of the administered product, avoiding its spillage and, where appropriate, the generation of filaments or accumulations of material.
- It allows to accurately evaluate the depth to which the product is administered and fine-tune with great precision.
- It allows choosing the most convenient configuration in each case depending on where the fluid is to be applied.
- It can include additional elements such as a graduated longitudinal scale, support elements or a thread.



Intellectual Property

This technology is protected by a International patent application (PCT).



Aims

We are looking for a partner interested in a license and/or a collaboration agreement to further develop and exploit this innovative technology.



Classification

Area: Medical device

Pathology: Oncology; Hematology; Cardiovascular and respiratory system, Digestive system, Respiratory and pulmonary system; Central Nervous System; Anesthesia; Nursing

