



MECHANICAL DEVICE FOR ENDOSCOPIC SURGERY PROCEDURES

TECHNOLOGY OFFER



COMPETITIVE ADVANTAGES

- ✓ Savings in pressurized gas supply.
- ✓ Savings in general anaesthesia.
- ✓ Easy to use → shorter interventions.
- ✓ Reusable device (manufactured with materials that withstand many sterilization cycles).
- ✓ Universalization of TEM technique in hospitals.

PATENTS

- ES patent granted.
- PCT application in international phase.

TYPE OF COLLABORATION

- Licence agreement.

MORE INFO

<http://bit.ly/1SZ0i5c>

- Prototypes available
- Validated by experts.

INNOVATIVE ASPECTS

- ✓ Simple, reliable and safe manual-mechanical system with robust design.
- ✓ No need to insufflate pressurized CO₂ (or other gas).
- ✓ Medical interventions using the device can be performed without the need of anaesthesia, therefore procedures can be less aggressive or dangerous.
- ✓ It helps to provide an expanded and stable working area throughout the duration of the procedure, thanks to the rigidity of the folding rods.
- ✓ Most reliable and safe surgical interventions.
- ✓ Folding rods adaptable to different formats, sizes and materials. Customization according to patient.
- ✓ It helps to prevent post-operative complications.

ABSTRACT

This invention relates to a mechanical device for performing surgery, examination and diagnostic/therapeutic procedures which require access to inside the patient's body through a natural orifice, and for expanding and maintaining a stable cavity working space for the operation, which normally tends to collapse. Although the invention preferably relates to processes of Transanal Endoscopic Microsurgery (TEM), the device can also be applied more generally to other interventions, such as in examinations or diagnostic and therapeutic procedures in other anatomical parts as the urogenital area.

The device consists of a system of pivoting rods, a front head housing one end of the pivoting rods, an input port for the other end, some transmission means for rotating the rods and some driving means for deploying or retracting such rods.

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