

TITLE NEW VAGINAL PROSTHESIS

DESCRIPTION OF THE TECHNOLOGY

The product consists of a prosthesis intended to be placed temporarily in the space defined between the bladder and rectum of women with vaginal agenesis and in sex change interventions, to create an artificial vaginal cavity or neovagina with a suitable luminal diameter following the surgical technique known as McIndoe.

The design is intended to be used also as a mold or dilator, which is recommended for daily use the days after surgery and medical care to ensure the maintenance of an adequate vaginal luminal diameter. This self-dilator must be placed by the patient herself, every night, for 3-4 months until regular intercourse begins. For this use the prosthesis is silicone coated to facilitate insertion and self-removal by the patient.

MARKET APPLICATION SECTORS

Supplies industry and mold making Plastics Sector

TECHNICAL ADVANTAGES AND BUSINESS BENEFITS

This product replaces craft prostheses (described in the scientific literature) that have been used in surgical McIndoe technique. The form of additive construction allows a precise geometry and is adapted to the needs of surgery. The application of this prosthesis will allow the surgery to form the vagina to be less aggressive than is done at present and will not require skin graft.

The new system is better suited to the anatomy of the vagina because it has been developed with 3D technology, protects more the soft part and is much lighter. The material is a natural polymer derived from lactic acid, which brings lightweighting and stiffness, and allows the manufacture of complex, optimized geometries thanks to 3D printing technology. Moreover, this material stimulates healing and skin formation in the neovagina.

CURRENT STATE OF DEVELOPMENT

Several prototypes have been developed to be used in a clinical trial.

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INTELLECTUAL PROPERTY RIGHTS

Utility Model 201630650 Granted

Utility Model under co-ownership: 70%UMH-30% FISABIO

Under study the viability of international extension.

COLABORATION SOUGHT

Companies interested in the license of the utility model for manufacturing and marketing the product

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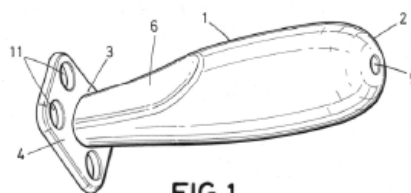


FIG.1

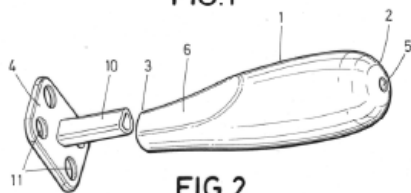


FIG.2

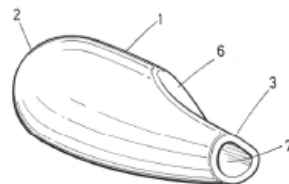


FIG.3



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