

CATHETER FOR HYDROCEPHALUS TREATMENT

DESCRIPTION OF THE INVENTION

A brand new catheter design has been developed for treating hydrocephalus, a condition that requires to drain excess cerebrospinal fluid in the brain by means of a cannula or a catheter that is implanted in one of the ventricular cavities of the encephalon. The system incorporates a peritoneal catheter for removing said liquid.

As for the practical side of the invention, the main disadvantage of the already existing designs is that they eventually become blocked. In fact, 80% of hydrocephalus patients have to undergo one or more surgeries due to problems caused by the ventricular catheter, and in 80% of the cases said problems are caused by obstructions. Moreover, a quite significant number of these problems can be potentially deadly.

Obstruction of orifices in ventricular catheters is related with the concentration of cerebrospinal fluid in the orifices closer to the valve. With these proposed new designs, that problem is solved: flux is evenly distributed to all orifices in order to extend the useful life of ventricular catheters, which will improve the patients' quality of life.

BUSINESS FIELDS OF APPLICATION

This invention can be applied within the medical components industry, and more specifically in the field of devices used for diverting or removing patients' body fluids.

THECNICAL AND BUSINESS ADVANTAGES

The main characteristic of this new device is that there is a variable number of orifices in the drainage rings. This allows the fluid to pass through the catheter evenly while at the same time minimizes the chances of orifices getting blocked, and it also boosts flux redistribution in the event of an obstruction. All these features result in a longer useful life of the invention.

DEVELOPMENT STAGE OF THE THECNOLOGY

The technology is pending validation and item testing for subsequent marketing.

INDUSTRIAL AND INTELLECTUAL PROPERTY RIGHTS

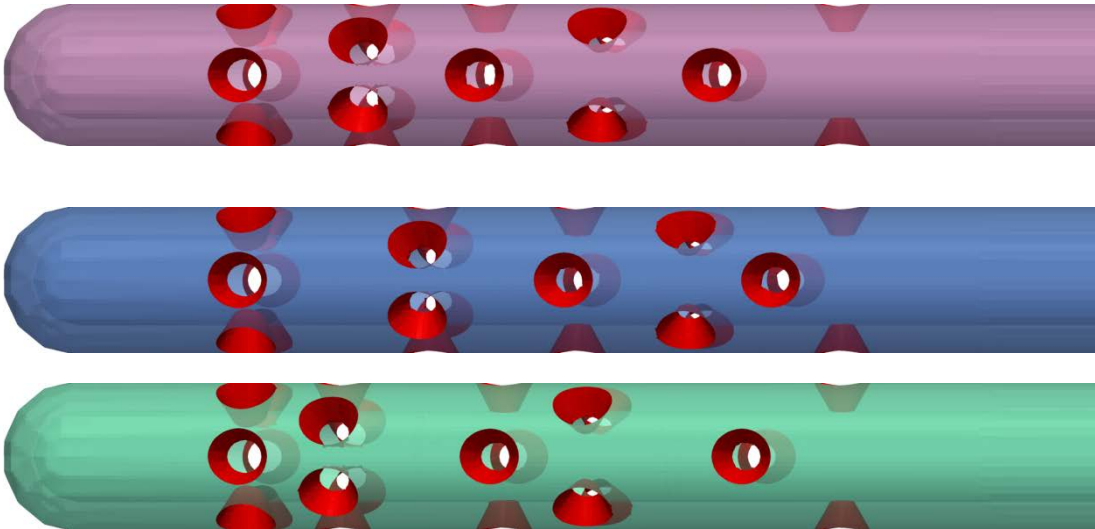
Patent request issued at the Spanish Patents and Trade Marks Office on 6 March 2014.

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TYPE OF COLABORATIONN SEEKED

License agreement with companies wishing to market the technology.

RELATED PICTURES



CONTACT DETAILS

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