

Device for measuring the length of a stenosis

Ref AP-HP 12-044

Background

Inflammatory bowel diseases (Crohn's disease and ulcerative colitis) affect around 1.6 million Americans and represent a sales market worth \$5.6 billion worldwide. Intestinal inflammation often results in stenosis, for which a classic treatment is surgical resection. However, surgical resection is a drastic option ; if the stenosis is located on a zone accessible to endoscopy, it can be treated alternatively by dilatation, using an endoscope coupled with a balloon catheter. This method can be inefficient if the stenosis is too long.

Therefore, measuring the length of the stenosis prior to dilatation is crucial for choosing the most appropriate shape and dimensions of the balloon. Another treatment is a stent placement that also requires measuring the length of the stenosis so as to choose a well-suited stent. Currently, measurements of stenosis length is often inaccurate and result in inappropriate dimensions of the balloon catheter or the stent.

Technology

We propose a new endoscopic medical device for measuring precisely the length of a stenosis in inflammatory bowel diseases. This specific endoscopic digestive catheter allows the operator to easily read the length of the stenosis thanks to a specific marking. The measurement is therefore more accurate than with standard procedures, thus minimizing the possibility of stent mis-sizing and associated complications.

Keywords

Digestive stenosis - catheter - endoscopy - stricture - length measurement - Crohn's disease

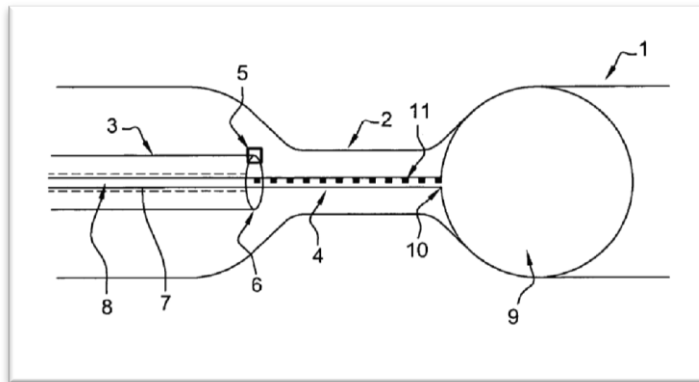
Intellectual property

Patent application

EP2861287A1 - US20150141850

Stage of development

R&D



Partnership type

AP-HP is looking for an industrial partner for the development of the device and offers to grant license on the patent.

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