Tohoku Univ. Technology

Catheter system

Adjuster for easily grasping positional relation between catheter and guide wire and providing safe operation

Overview

In endovascular therapy, it is necessary to advance the distal tip of a catheter through the body to reach a lesion. When guiding the catheter internally, a guidewire is passed through the catheter and used for navigation. The positions of the catheter and guidewire are continuously monitored using X-ray fluoroscopy.

While modern catheters have pursued extreme thinness and flexibility to enable highly precise treatments, they have become less visible under X-ray, often making it difficult to ascertain the exact location of the catheter tip. Consequently, the catheter may reach unintended locations, or inappropriate force may be applied to the guidewire. This can damage cerebral blood vessels and even lead to extremely severe complications. To prevent such adverse events, operators must maintain constant vigilance, which leads to prolonged procedure times and increased operator fatigue.

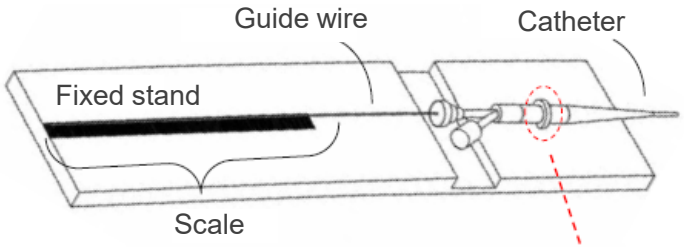
The present invention is based on the concept of equipping the proximal catheter control section with a graduated adjuster. This clarifies the positional relationship between the catheter and the guidewire, enabling accurate identification of the catheter tip's location. The adjuster can be easily attached to and detached from the catheter, and is designed to secure to the exact same position on the catheter every time.

Product Application

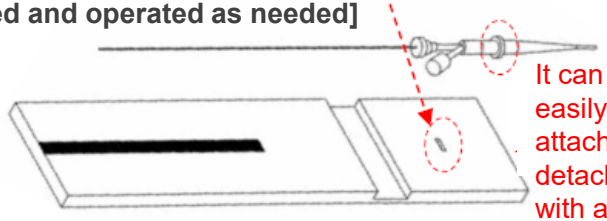
- Endovascular treatment for cerebrovascular diseases, endovascular treatment

Features・Outstandings

[Align the guide wire tips on the fixed stand]



[Can be removed and operated as needed]



It can be easily attached and detached with a magnet.

IP Data

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