Handle Mechanism And Functionality For Repositioning And Retrieval Of Transcatheter Heart Valves

Tech ID: 31730 / UC Case 2013-643-0

BRIEF DESCRIPTION

Improved catheter devices for delivery, repositioning and/or percutaneous retrieval of percutaneously implanted heart valves are described, including a medical device handle that provides an array of features helpful in conducting a percutaneous heart valve implantation procedure while variously enabling radial expansion or contraction and/or lateral positioning control over the heart valve during the medical procedure.

FULL DESCRIPTION

Correct valve positioning is crucial for treatment success and optimal outcomes after transcatheter valve implantation. For example, to maintain a stable and correct lengthwise position with respect to the aortic annulus, a stepwise deployment that allows the valve to be repositioned both circumferentially and in the axial direction (i.e., towards the left ventricle (LV) or the ascending aorta) is important.

However, most of the current technologies are limited by instant deployment, and once the valve is deployed, repositioning and/or percutaneous retrieval is not possible—or at least difficult or potentially problematic.

Embodiments described herein address the need for improved catheter devices for delivery, repositioning and/or percutaneous retrieval of percutaneously implanted heart valves. Features of a medical device handle are described that provide an array of features helpful in conducting a percutaneous heart valve implantation procedure while variously enabling radial expansion or contraction and/or lateral positioning control over the heart valve during the medical procedure.

SUGGESTED USES

ADVANTAGES

PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	9,744, 037	08/29/2017	2013-643

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OTHER INFORMATION

CATEGORIZED AS

- » **Medical**
  - » Devices
  - » Disease: Cardiovascular and Circulatory System

RELATED CASES

2013-643-0

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