

Title (en)
APPARATUS FOR FILTERING BLOOD WHEN REMOVING A HEART VALVE STENOSIS, AND METHOD FOR REMOVING A HEART VALVE STENOSIS

Title (de)
VORRICHTUNG ZUM FILTERN VON BLUT BEIM BESEITIGEN EINER HERZKLAPPENSTENOSE UND VERFARHEN ZUM BESEITIGEN EINER HERZKLAPPENSTENOSE

Title (fr)
DISPOSITIF DE FILTRATION DE SANG LORS DU TRAITEMENT D'UNE STÉNOSE VALVULAIRE ET PROCÉDÉ DE TRAITEMENT D'UNE STÉNOSE VALVULAIRE

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Application
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Priority
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Abstract (en)
[origin: WO2007135065A2] The invention relates to an apparatus and a method for removing a heart valve stenosis. A filter catheter is disposed in a vessel region located downstream of the heart valve while a balloon catheter is disposed in the area of the heart valve. In one embodiment, the distal end of the filter catheter is provided with a radial filter which is unfolded in a radial direction until resting against the vessel wall. The catheter lumen is closed in such a way that blood is forced through the filter. After unfolding the filter, the balloon catheter is unfolded in the area of the heart valve in order to remove the heart valve stenosis, debris and plaque that detaches being collected in the filter. In an alternative embodiment, the filter catheter can be sealed towards the vessel wall by means of a sealing element, an external filter being connected to the filter catheter in order to filter debris and plaque out of the blood.

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