Title: DELIVERY SYSTEM FOR TRANSCATHETER DETACHMENT OF A STENT FORM THE DELIVERY DEVICE

Abstract: Described is an apparatus for transcatheter detachment of a stent from a delivery device. A braided suture with an opening is inserted through a restraining hole in a glide (the opening is secured on one side by a knot or a series of knots) and a release line is inserted through the braided suture opening. The braided suture is thus prevented from pulling through the restraining hole while the release line is through the opening. The braided suture is free to pass through the restraining hole after the release line is pulled out of the opening and thereafter pulled free of the stent holes formed through a stent, thereby detaching the stent at a desired location.

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INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8)- A61F 2/24 (2015.01)
CPC - A61F 2/2439
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
CPC: A61F 2/2439; IPC(8): A61F 2/24 (2015.01); USPC: 629/11.2

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
CPC: A61B 17/1218; USPC: 623/1.11, 623/2.11, 623/900 (keyword limited; terms below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PatBase; Google (Web, Patents, Scholar) Search Terms Used: Transcatheter stent heart valve expand Placement delivery deployment Draw lines release line cable wire Pull back knots loops opening aperture hole glide pusher sheath braided filaments strands suture slipknot

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>US 2013/0310923 A1 (Kheradvar et al.), 21 November 2013 (21.11.2013), entire document, especially Fig. 5 and 9; para [0052] and [0057]</td>
<td>1-20</td>
</tr>
<tr>
<td>A</td>
<td>US 2012/0016469 A1 (Salahieh et al.), 19 January 2012 (19.01.2012), entire document, especially Fig. 1 and 6-8; para [0106]-[0107]</td>
<td>1-20</td>
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* Further documents are listed in the continuation of Box C.
*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

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