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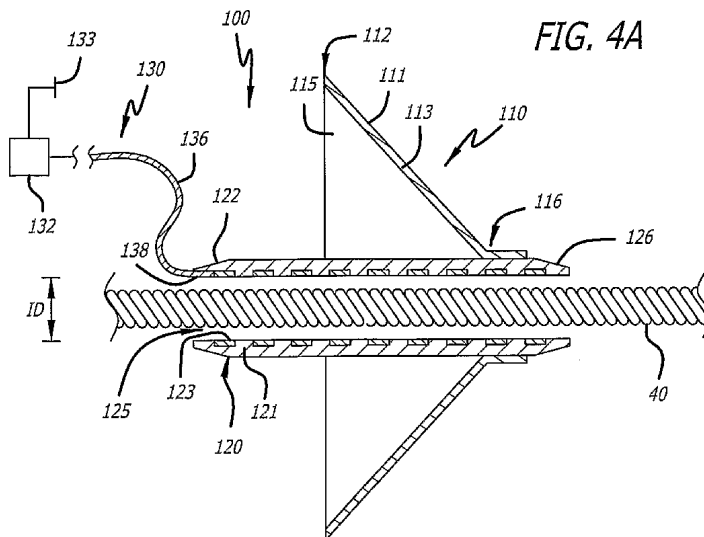
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[Continued on next page]

(54) Title: EMBOLIC FILTER DEVICE AND RELATED SYSTEMS AND METHODS



(57) Abstract: An adjustable embolic filter module includes an adjustable lock assembly and an adjustable filter assembly with a filter support scaffold and filter member. The lock assembly and filter support scaffold are formed integrally from one piece of nickel-titanium tubing that is cut and retrained into a shape memory pattern. The lock assembly locks onto a guidewire, and the adjustable filter assembly self-expands when released from radial compression to filter blood at the location. A delivery system provides low profile delivery and release of the assembly for guidewire locking and filter deployment. A dynamic coupling is positioned between the lock and the filter, allowing limited range of motion between them upon movement of the locked guidewire. A system includes an actuated or sensed guidewire in combination with an adjustable filter module. A guidewire-lockable filter includes a needle coupled into the guidewire lumen for energy or material delivery to lock the filter to the guidewire.



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A. CLASSIFICATION OF SUBJECT MATTER
 IPC: **A61M 29/00(2006.01)**

 USPC: **606/200**
 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)
 U.S. : 606/200

 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 6,277,139 B1 (LEVINSON et al) 21 Aug 2001 (21.08.2001), whole document.	1-16, 33-49, 54 ----- 50-53, 55, 72-77
Y	US 2001/0031981 A1 (EVANS et al) 18 Oct 2001 (18.10.2001), whole document.	50-53, 55
X	US 5,827,324 (CASSELL et al) 27 Oct 1998 (27.10.1998), whole document.	63-71

Further documents are listed in the continuation of Box C.

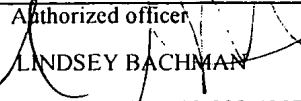
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