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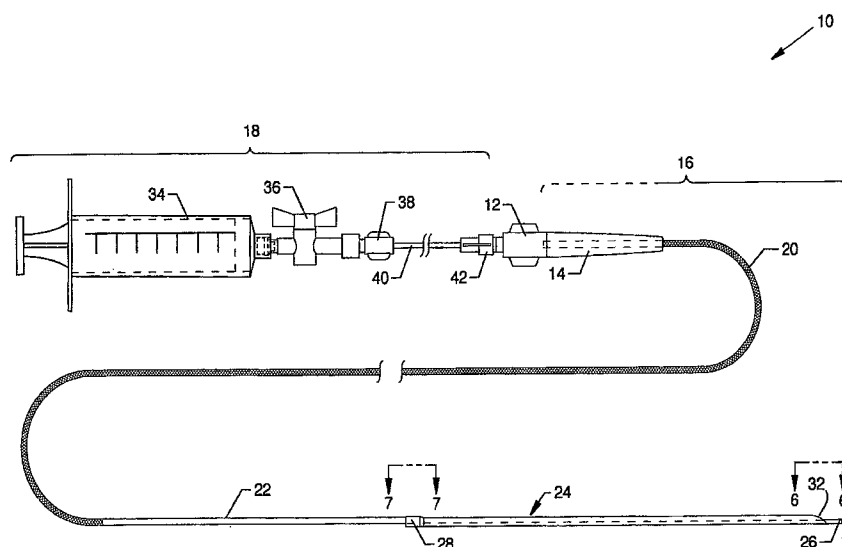
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(54) Title: DUAL LUMEN ASPIRATION CATHETER SYSTEM



(57) Abstract: A dual lumen aspiration catheter system with an aspiration catheter, a hub and a flexible strain relief, and a suction assembly. The aspiration catheter includes multiple successively connected flexible tubular components each increasing in relative flexibility in the distal direction, the most proximal tubular component connectingly extending from the hub and through the flexible strain relief. The tubular components of the aspiration catheter include, in order proximally to distally, a composite tube, an intermediate tube, a dual lumen tube, and a flexible tip tube. The dual lumen tube includes eccentrically co-located large and small tubular portions forming eccentrically co-located large and small lumens to provide a minimum cross section. The distal end of the dual lumen tube includes a convex beveled edge. The convex beveled edge and the flexible tip tube singly or jointly inflict minimal traumatic contact with a vessel wall when urged along a tortuous vascular path.



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A. CLASSIFICATION OF SUBJECT MATTER

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USPC - 604/35

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)

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604/19, 600/153, 600/156

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

PubWEST(USPT,PGPB,EPAB,JPAB); Google Scholar

Search Terms Used: catheter, vacuum, suction, aspiration, strain relief, guidewire, atraumatic tip, variably flexible, variable flexibility

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2004/0220515 A1 (CONSTANTZ) 04 November 2004 (04.11.2004) Entire document, especially para[0027], para[0032] and FIG. 1.	1-4
Y	US 2002/0091372 A1 (CRAIGG et al.) 11 July 2002 (11.07.2002) Entire document, especially para[0001], para[0007], para[0027] and FIG. 1.	1-4
Y	US 2005/0245866 A1 (AZIZI) 03 November 2005 (03.11.2005) para[0115] and FIG. 6.	2

☐ Further documents are listed in the continuation of Box C.

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
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"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

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Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)