Title: ENHANCED CROSS STREAM MECHANICAL THROMBECTOMY CATHETER WITH BACKLOADING MANIFOLD

Abstract: An enhanced cross stream mechanical thrombectomy catheter with backloading manifold having a distal end with outflow and inflow orifices at one side for producing concentrated cross stream jet flow for selective and concentrated thrombus ablation during thrombectomy procedures. The invention provides for suitable distancing of high powered ablation or suction forces from the near walls of the vasculature. Cross stream flow emanating from the one side of the distal end of the catheter resultantly urges the distal end of the catheter and thus the opposing non-orificed side of the distal end of the catheter toward and against the vascular wall to inhibit contact of the inflow orifice with the vascular wall. Features of the invention include a geometrically configured insert to facilitate the backloading or exchange of guidewires.
For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.
INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/41409

A. CLASSIFICATION OF SUBJECT MATTER
IPC: A61M 31/00 (2006.01)

USPC: 604/93.01
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.: 604/93.01,22,523-539,284,264,93.01; 606/167,170

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)
EAST(catheter, jet, manifold, openings, holes, apertures)

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>
</table>

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:

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Date of the actual completion of the international search: 19 June 2006 (19.06.2006)

Date of mailing of the international search report: 05.11.2006

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