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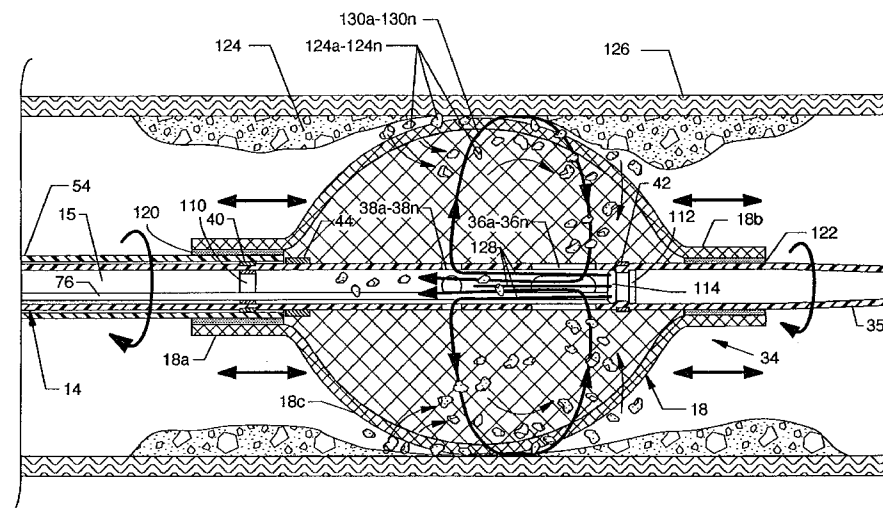
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(54) Title: CROSS STREAM THROMBECTOMY CATHETER WITH FLEXIBLE AND EXPANDABLE CAGE



(57) Abstract: A cross stream thrombectomy catheter with a flexible and expandable cage ( 18 ) preferably formed of nitinol for removal of hardened and aged thrombotic material stubbornly attached to the interior of a blood vessel ( 124 ) The cage, which can be mesh or of straight or spiral filament design, is located close to inflow and outflow orifices at the distal portion of a catheter tube ( 128 ) and is deployed and extended at a thrombus site for intimate contact therewith and for action of a positionable assembly and subsequent rotation and lineal actuation to abrade, grate, scrape, or otherwise loosen » td dislodge difficult to remove thrombus which can interact with cross stream flows to exhaust free and loosened thrombotic particulate through the catheter tube. An alternative embodiment discloses a mechanism involving a threaded tube in rotatable engagement with an internally threaded sleeve to incrementally control the deployment and expansion of the flexible and expandable cages.

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*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

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## A. CLASSIFICATION OF SUBJECT MATTER

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USPC: 606/191,198.200

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## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 606/191,198,200

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	US 6,635,070 B2 (Leeftang et al) 21 November 2002 (21.11.2002), column 10, lines, 43,45, column 13, lines 62,66, column 14, lines, 3-7,11,13,26, column 16, line 18	1-24,28-42
X	US 6,635,070 B2 (Leeftang et al) 21 November 2002 (21.11.2002),	25-27
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Y		

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

☐ See patent family annex.

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