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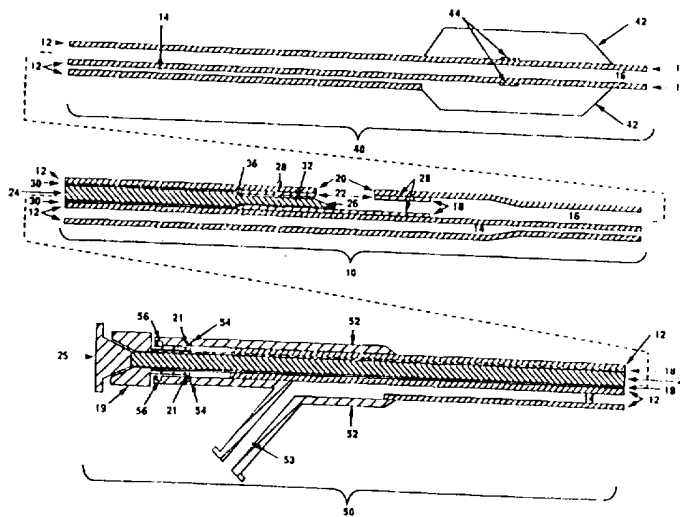
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<p>(51) International Patent Classification ⁶: A61M 25/00 B64C 07/02, G06G 5/02, G01S 13/02</p>	<p>A3</p>	<p>(11) International Publication Number: WO 94/03213 (43) International Publication Date: 17 February 1994 (17.02.94)</p>
<p>(21) International Application Number: PCT/US93/07323 (22) International Filing Date: 4 August 1993 (04.08.93) (30) Priority data: 926,530 4 August 1992 (04.08.92) US (71) Applicant: DANFORTH BIOMEDICAL INCORPORATED [US/US]; 1505 Adams Drive, Suite D, Menlo Park, CA 94025-1439 (US). (74) Agent: JAFFER, David, H.; Rosenblum, Parish & Isaacs, 160 West Santa Clara Street, 15th Floor, San Jose, CA 95113 (US).</p>	<p>(81) Designated States: European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 27 April 1995 (27.04.95)</p>	

(54) Title: CONVERTIBLE CATHETER



(57) Abstract

The present invention is a catheter having a guide wire lumen (16) with a slidable sleeve (18). The lumen and sleeve have aligned apertures (20), (22), which may be closed by moving the slidable sleeve (18). When the apertures (20), (22) are aligned, a guide wire may be loaded from the distal end of the catheter (10) through the lumen (16). The guide wire is forced out of the lumen by a ramp (26) in the lumen (16). The ramp (26) is at the end of a removable core member (24), which provides enhanced shaft rigidity. The catheter may be converted from a "monorail" to an "over-the-wire" configuration by moving the slidable sleeve (18) to close the aperture and advancing a replacement guide wire through the guide wire lumen (16) past the now sealed aperture. A non-circular cross section is used for the lumen (16), removable core member (24), and slidable sleeve (18), thereby maintaining orientation of the lumen and slidable sleeve aperture should the catheter undergo rotational flexing during use.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US93/07323

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) :A61M 25/00
US CL :604/280

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. : 604/96-103, 164, 280; 606/194280

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
NONE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US, A, 5,135,535, (KRAMER), 04 August 1992. See entire document.	1-25
Y, P	US, A, 5,171,222, (EUTENEUER ET AL.), 15 December 1992. See entire document.	1-25
Y	WO, A, 92/11894, (BURNS ET AL.), 23 July 1992. See entire document.	1-25


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