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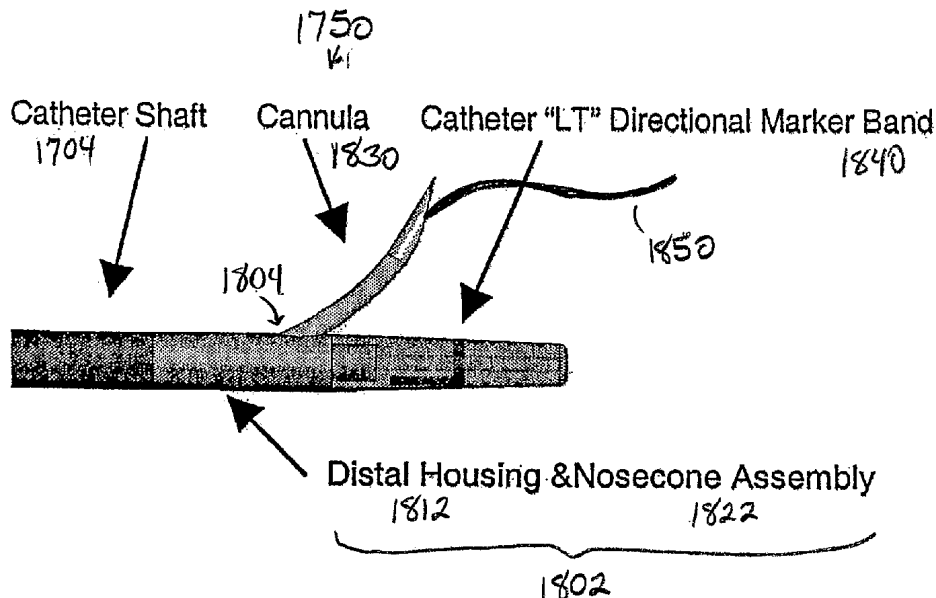
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[Continued on next page]

(54) Title: CATHETER SYSTEMS FOR CROSSING TOTAL OCCLUSIONS IN VASCULATURE



(57) Abstract: Medical devices and methods are described that include catheter systems for use in vasculature. The catheter systems include a re-entry catheter for use with numerous guide wires to direct the guide wire from the extraluminal or subintimal space back into a true lumen after the guide wire has entered the subintimal space. An example of the re-entry catheter is a single lumen catheter configured to facilitate placement and positioning of guide wires and catheters within vasculature. An embodiment places and positions guide wires and catheters within peripheral vasculature. More specifically, the re-entry catheter provides for re-entry of a guide wire back into the true lumen of peripheral vasculature from a subintimal space.



WO 2006/105244 A3



FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT,
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A. CLASSIFICATION OF SUBJECT MATTER
 IPC: **A61M 25/00**(2006.01)

USPC: 604/523
 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. : 604/523, 529, 284, 508, 528, 284

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

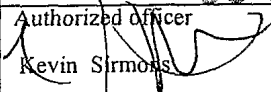
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,692,483 B2 (VARDI et al) 17 February 2004 (17.02.2004) columns 2-6.	1-21
A	US 7,552,554 (GOULD et al) 12 Novemeber 1985 (12.11.1985), columns 2-5.	1-21

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

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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	"&" document member of the same patent family

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