

Title (en)  
CATHETER APPARATUS HAVING AN IMPROVED SHAPE-MEMORY ALLOY CUFF AND INFLATABLE ON-DEMAND BALLOON FOR CREATING A BYPASS GRAFT IN VIVO

Title (de)  
KATHETER MIT EINER HÜLSE AUS FORMGEDÄCHTNISLEGIERUNG UND EINEM BEI BEDARF AUFBLASBAREM BALLON ALS INVIVO BYPASS-IMPLANTAT

Title (fr)  
CATHETER POSSEDANT UNE COIFFE EN ALLIAGE A MEMOIRE DE FORME ET UN BALLONNET GONFLABLE A LA DEMANDE, AUX FINS DE CREATION (IN VIVO) D'UN PONTAGE

Publication  
**EP 1077662 A1 20010228 (EN)**

Application  
**EP 99916657 A 19990413**

Priority  
• US 9908040 W 19990413  
• US 6095898 A 19980416

Abstract (en)  
[origin: WO9952481A1] The present invention provides a catheter apparatus (1), an improved introducer system (80), a methodology for creating a bypass on-demand between an unobstructed blood vessel such as the aorta, an obstructed blood vessel, and an obstructed coronary artery in vivo using a prepared shape-memory alloy cuff (300), and a graft segment (460) in tandem as a shunt. The apparatus (1) allows the placement, and creation of single or multiple bypass grafts without use of a heart/lung machine, and without need for stopping the heart of the patient during the coronary artery bypass surgery.

IPC 1-7  
**A61F 11/00**

IPC 8 full level  
**A61M 25/01** (2006.01); **A61F 2/06** (2013.01); **A61F 2/958** (2013.01); **A61B 17/00** (2006.01); **A61B 17/11** (2006.01); **A61F 2/00** (2006.01); **A61F 2/82** (2013.01); **A61F 2/848** (2013.01); **A61F 2/90** (2013.01)

CPC (source: EP)  
**A61F 2/064** (2013.01); **A61F 2/958** (2013.01); **A61B 2017/00243** (2013.01); **A61B 2017/00867** (2013.01); **A61B 2017/1107** (2013.01); **A61B 2017/1135** (2013.01); **A61F 2/90** (2013.01); **A61F 2002/061** (2013.01); **A61F 2002/821** (2013.01); **A61F 2002/8483** (2013.01); **A61F 2002/8486** (2013.01); **A61F 2210/0014** (2013.01); **A61M 2025/0233** (2013.01); **A61M 2205/0266** (2013.01)

Citation (search report)  
See references of WO 9952481A1

Designated contracting state (EPC)  
BE DE ES FR GB NL SE

DOCDB simple family (publication)  
**WO 9952481 A1 19991021**; AU 3492399 A 19991101; AU 766058 B2 20031009; CA 2328164 A1 19991021; EP 1077662 A1 20010228; JP 2002511309 A 20020416

DOCDB simple family (application)  
**US 9908040 W 19990413**; AU 3492399 A 19990413; CA 2328164 A 19990413; EP 99916657 A 19990413; JP 2000543094 A 19990413