United States Patent [19]

Choudhury

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[54] **METHOD FOR PERFORMING ANEURYSM REPAIR**

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[52] **U.S. Cl.** **128/325**; 128/348; 3/1.4; 138/97; 138/98

[58] **Field of Search** ..... 128/334 R, 1 R, 334 C, 128/303 R, 349 B, 348, 325; 3/1.4, 1; 138/97, 98; 264/36

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[57] **ABSTRACT**

A method and article for performing an aneurysm repair is the subject of the present invention. A prosthetic graft is utilized to replace the damaged segment of the blood vessel. The graft is characterized by being movable from a collapsed formation of a diameter less than the diameter of the vessel to an open formation of a diameter approximately equal to that of the vessel. A plurality of radially spaced anchoring pins are located adjacent each end of the graft and provide means for securing the graft to the wall of the healthy vessel, on opposite sides of the aneurysm. Once in place, hemodynamic pressure will assure a continued fluid tight seal between the graft and the healthy vessel wall tissue. The prosthetic graft may be used without the need for major surgery by securing it to a catheter and inserting the catheter at a distal location from the aneurysm. The catheter with the prosthetic graft attached is moved through the vessel, utilizing fluoroscopic and X-ray data, to the area of the aneurysm. When in the proper location, the graft is moved, through remote control, to the open formation where the anchoring pins secure it to the vessel wall. The catheter may then be withdrawn as is the remote control operative linkage.

3 Claims, 4 Drawing Figures