

- [54] BIFURCATING STENT APPARATUS AND METHOD
- [75] Inventor: David C. MacGregor, Miami, Fla.
- [73] Assignee: Cordis Corporation, Miami, Fla.
- [21] Appl. No.: 354,799
- [22] Filed: May 22, 1989
- [51] Int. Cl.⁵ A61M 29/00; A61F 2/06
- [52] U.S. Cl. 606/194; 606/192
- [58] Field of Search 606/191, 192, 198, 200, 606/194, 96, 151, 153; 623/1, 12

4,856,516 8/1989 Hillstead 604/96 X
 4,913,141 4/1990 Hillstead 606/194 X

Primary Examiner—Robert A. Hafer
 Assistant Examiner—Kevin G. Rooney
 Attorney, Agent, or Firm—Watts, Hoffmann, Fisher & Heinke Co.

[56] **References Cited**
U.S. PATENT DOCUMENTS

3,993,078	11/1976	Bergentz et al.	606/156
4,501,264	2/1985	Rockey	606/192 X
4,733,665	3/1988	Palmaz	606/191 X
4,795,465	1/1989	Marten	623/12 X
4,830,003	5/1989	Wolff et al.	606/191
4,842,575	6/1989	Hoffman, Jr. et al.	623/1 X

[57] **ABSTRACT**
 A bifurcating stent for insertion into a bifurcating vessel such as a blood vessel. The stent can be expanded from an insertion configuration to an implanted configuration by the application of radially outward forces against a series of interconnected wire loops that make up the stent. The preferred and disclosed method of stent implantation is accomplished with the use of a balloon catheter that expands the stent into contact with inner walls of the vessel. The balloon is then deflated and withdrawn from the vessel, leaving the stent implanted within the vessel.

16 Claims, 3 Drawing Sheets

