

United States Patent [19]

Murtfeldt

[11] Patent Number: 4,592,920

[45] Date of Patent: Jun. 3, 1986

[54] METHOD FOR THE PRODUCTION OF AN ANTIMICROBIAL CATHETER

[75] Inventor: Robert L. Murtfeldt, Redondo Beach, Calif.

[73] Assignee: Baxter Travenol Laboratories, Inc., Deerfield, Ill.

[21] Appl. No.: 496,367

[22] Filed: May 20, 1983

[51] Int. Cl.⁴ B05D 3/02; A01N 1/02; A61M 5/325; A61M 25/00

[52] U.S. Cl. 427/2; 427/387; 427/393.5; 604/265; 604/280

[58] Field of Search 604/265, 280; 427/2, 427/387, 393.5

[56] References Cited

U.S. PATENT DOCUMENTS

3,695,921 10/1972 Shepherd et al. 604/280 X
4,054,139 10/1977 Crossley 604/265

FOREIGN PATENT DOCUMENTS

3228849 2/1984 Fed. Rep. of Germany 604/256

Primary Examiner—Michael R. Lusignan
Attorney, Agent, or Firm—Roger A. Williams

[57] ABSTRACT

A method for the production of antimicrobial catheters includes the steps of comminuting an antimicrobial metal compound to a particle size of up to about 30 microns in diameter. The comminuted antimicrobial metal compound is suspended in a suspending agent which can be cured to form a catheter or which can be formed to provide a coating on a previously formed catheter. The suspending agent is coated to either form the catheter or to form a coating on a catheter. Upon curing of the suspending agent, an outer surface is formed on the catheter, which outer surface includes the antimicrobial metal compound, thereby imparting antimicrobial activity to the catheter.

38 Claims, No Drawings