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[54] NON-POROUS COATED PTFE GRAFT

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[52] **U.S. Cl.** **623/1**

[58] **Field of Search** 623/1, 11, 12

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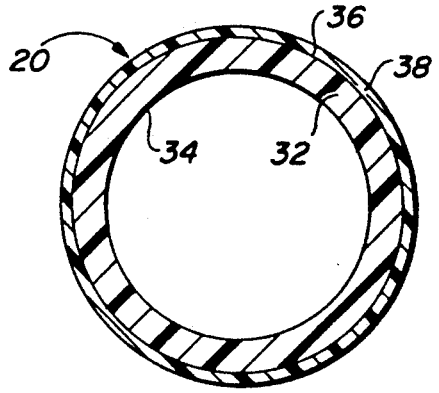
[57] **ABSTRACT**

A non-porous coated PTFE graft includes a PTFE tube having a conventional porous inner cylindrical wall and a non-porous elastomeric coating applied over at least a portion of the outer cylindrical wall of the PTFE tube to render such portion of the outer cylindrical wall non-porous. The elastomeric coating is made of polyurethane or another biocompatible non-porous elastomer and precludes tissue ingrowth into the outer cylindrical wall, minimizes suture hole bleeding, and increases suture retention strength, while reducing the incidence of serous weepage. The elastomeric coating is preferably applied by mounting the PTFE tube upon a mandrel of like diameter and either dip coating or spray coating all, or selected portions, of the PTFE tube with liquified polyurethane. After the polyurethane coating is completely dried, the non-porous vascular graft is removed form the mandrel and is ready for use.

9 Claims, 2 Drawing Sheets