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Andersen

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[54] **IMPREGNATED STENT**

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[51] Int. Cl.⁵ **A61M 29/00**

[52] U.S. Cl. **606/198; 606/108; 606/154; 606/195**

[58] Field of Search **606/108, 192, 194, 195, 606/198, 230, 77, 154, 191, 200; 623/1**

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Assistant Examiner—Ren Yan

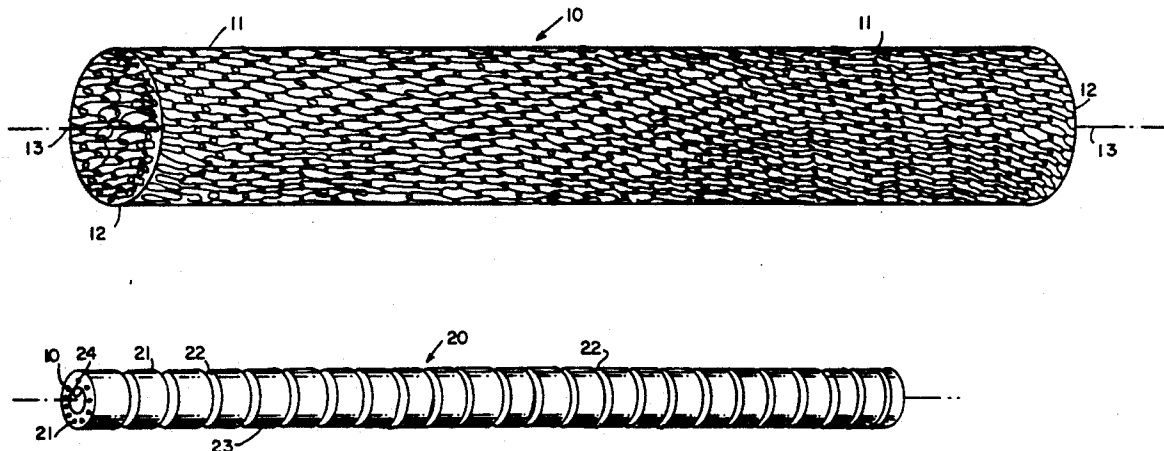
Attorney, Agent, or Firm—Pearson & Pearson

[57]

ABSTRACT

A stent assembly, delivery system and method of manufacture therefor. A stent assembly includes a compact stent. A dissolvable material impregnates the stent in liquid form. In its cured, solid form, the material contains the stent in its compact form. When the stent is positioned in a vessel, the temperature and liquids in the vessel dissolve the material thereby to release the stent for positioning in a final configuration. The expansion of the stent then allows removal of the delivery system.

60 Claims, 5 Drawing Sheets



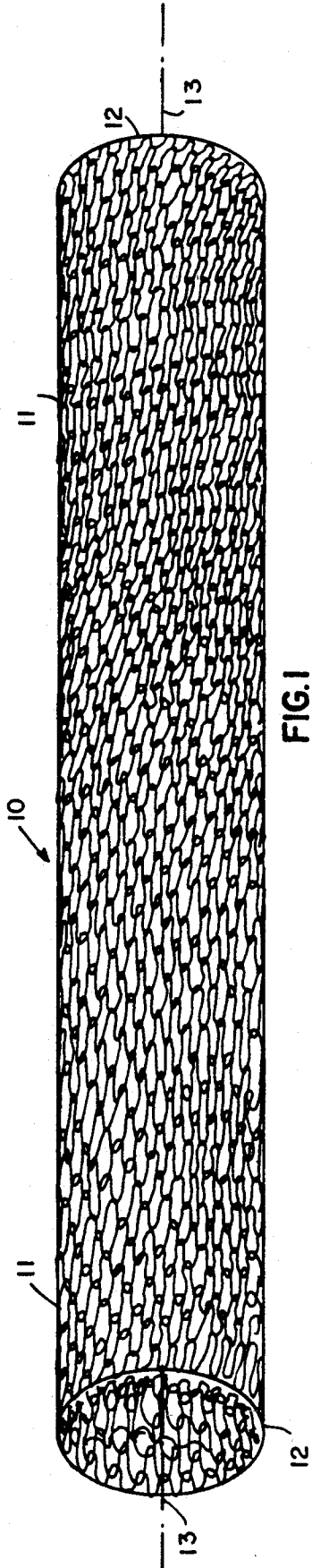


FIG. 1

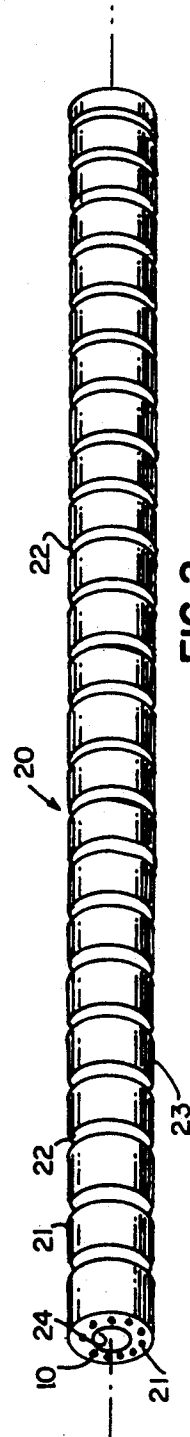


FIG. 2

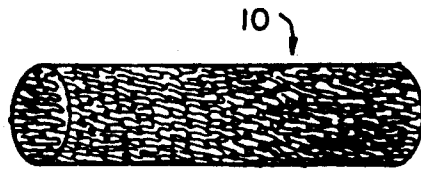


FIG. 3A

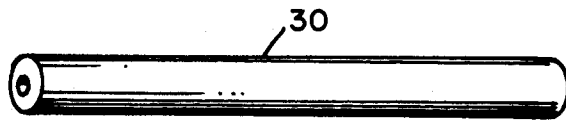


FIG. 3B

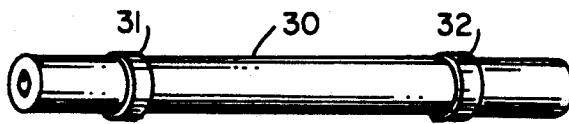


FIG. 3C

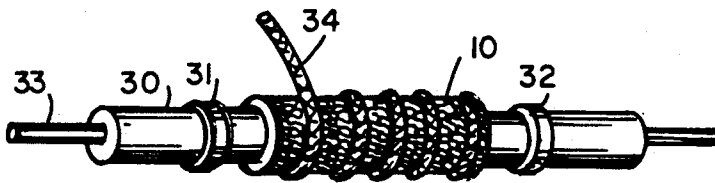


FIG. 3D

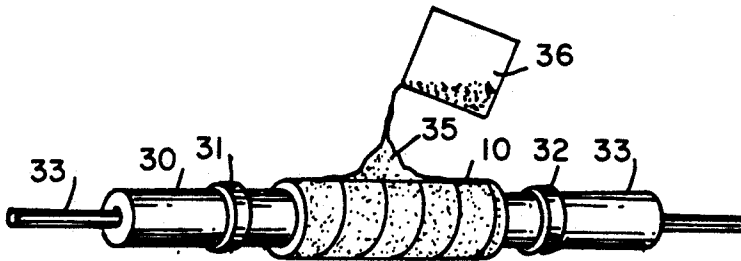


FIG. 3E

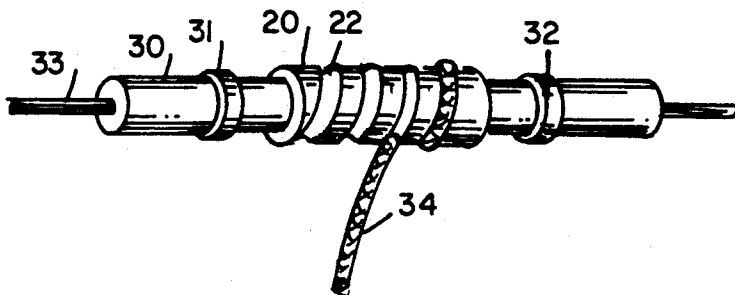


FIG. 3F

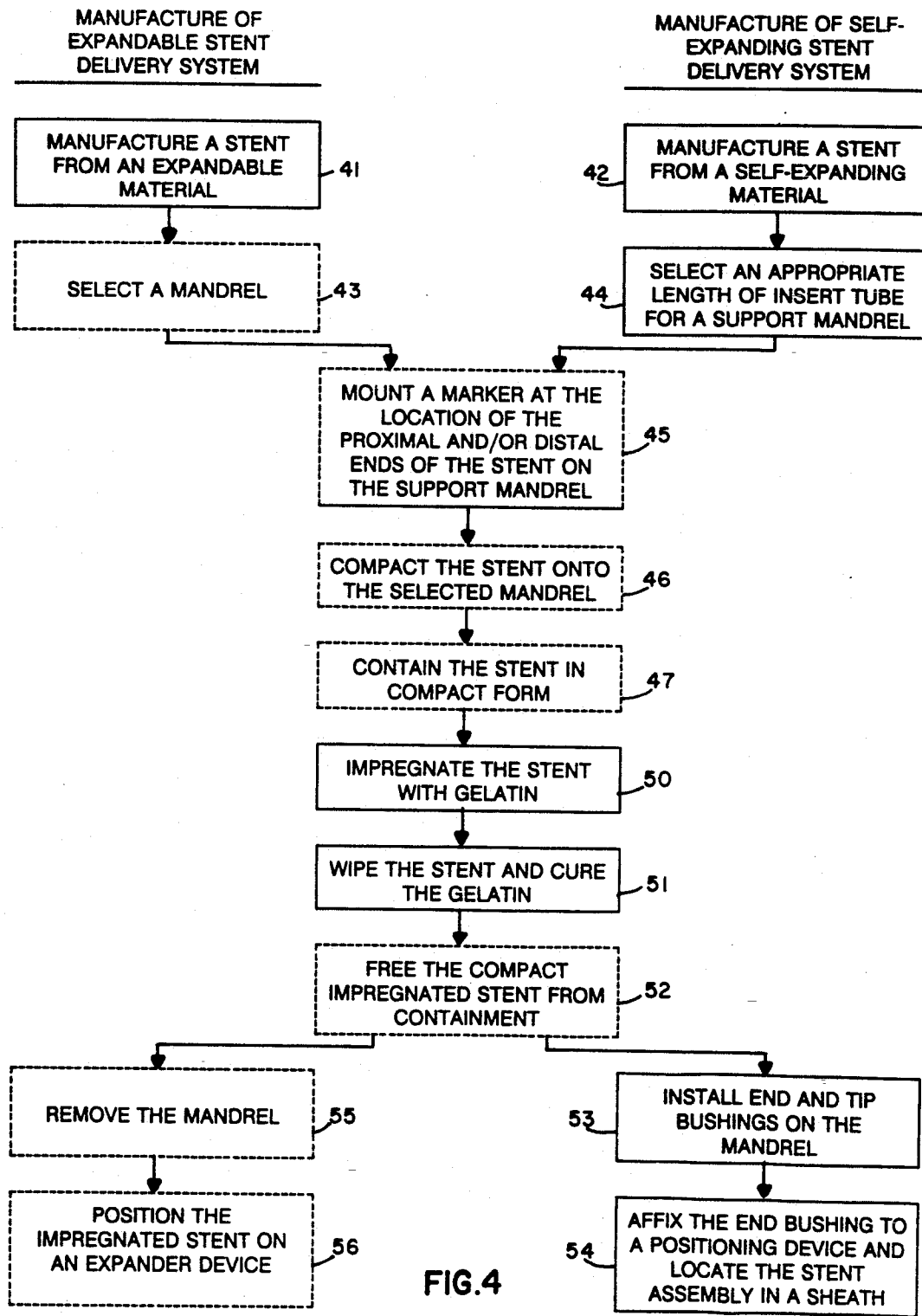


FIG. 4

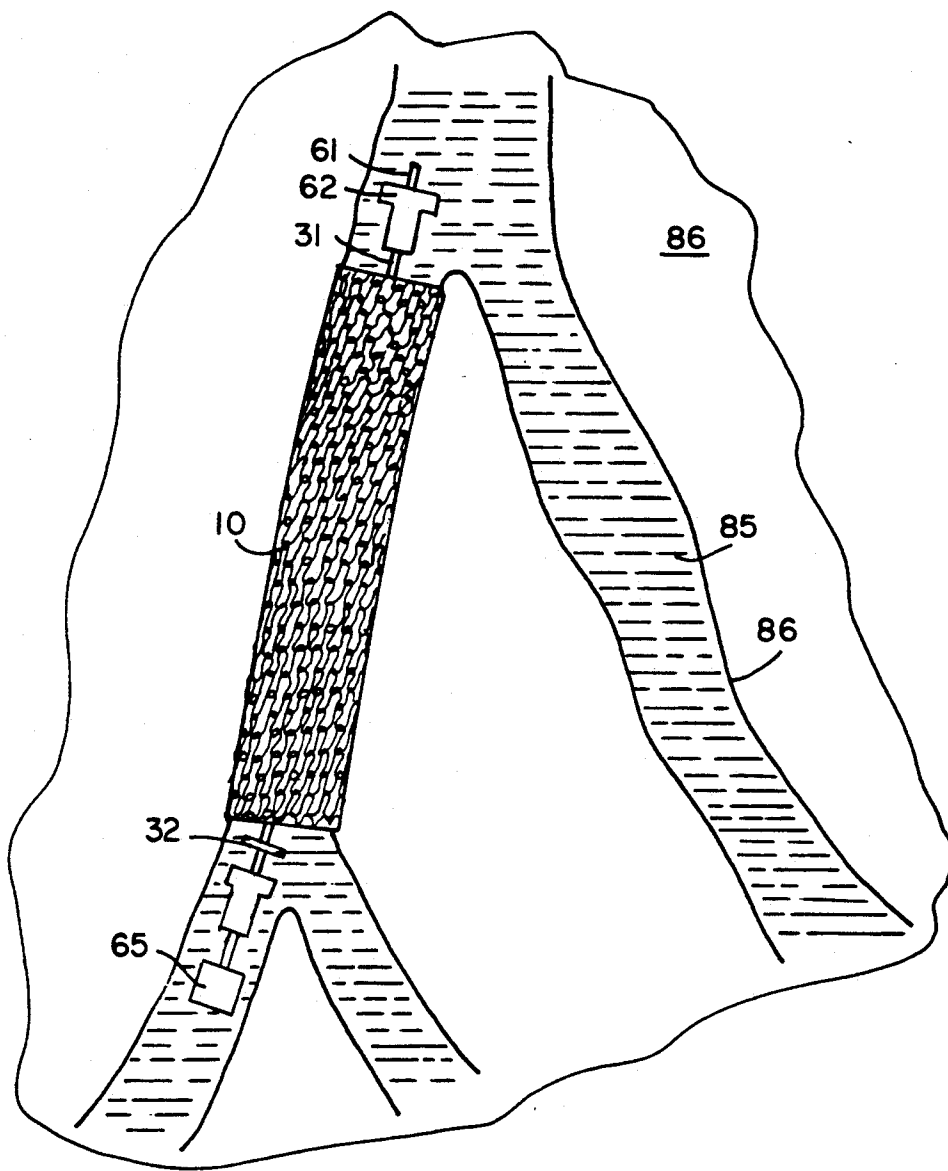


FIG. 6

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