United States Patent [19]

Hillstead

[54] ENDOVASCULAR STENT AND METHOD

- [75] Inventor: Richard A. Hillstead, Miami, Fla.
- [73] Assignee: Cordis Corporation, Miami Lakes, Fla.
- [21] Appl. No.: 650,699
- [22] Filed: Feb. 5, 1991
- [51] Int. Cl.⁵ A61M 29/00; A61F 2/06;
- [58] Field of Search 606/108, 191-195; 623/1, 12; 604/96

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[11] Patent Number: 5,135,536

[45] Date of Patent: Aug. 4, 1992

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Primary Examiner-Ronald Frinks

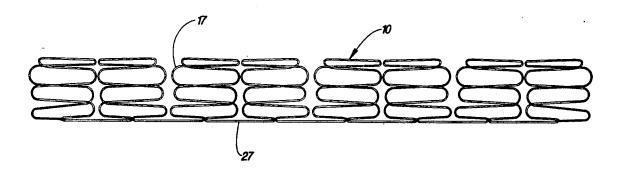
Attorney, Agent, or Firm-Watts, Hoffmann, Fisher & Heinke Co.

ABSTRACT

[57]

A stent for reinforcing a vessel wall is disclosed. The stent is constructed from a single elongated wire. The wire is first bent into a series of tight bends. The wire is then rolled around a mandrel to create junctions of wire which are permanently adhered. The completed stent forms a cylindrical form which can be expanded from an initial diameter to a larger implanted diameter by application of a radially outward force from a balloon catheter or the like.

24 Claims, 4 Drawing Sheets



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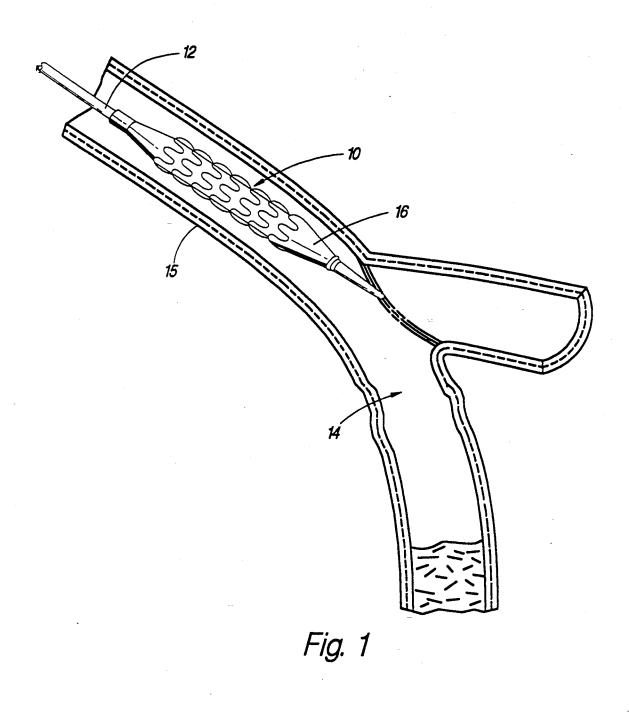
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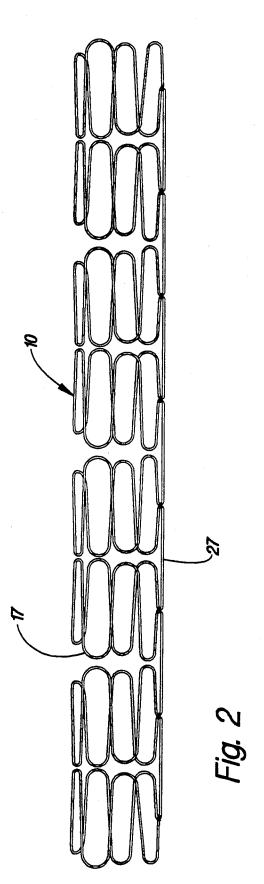
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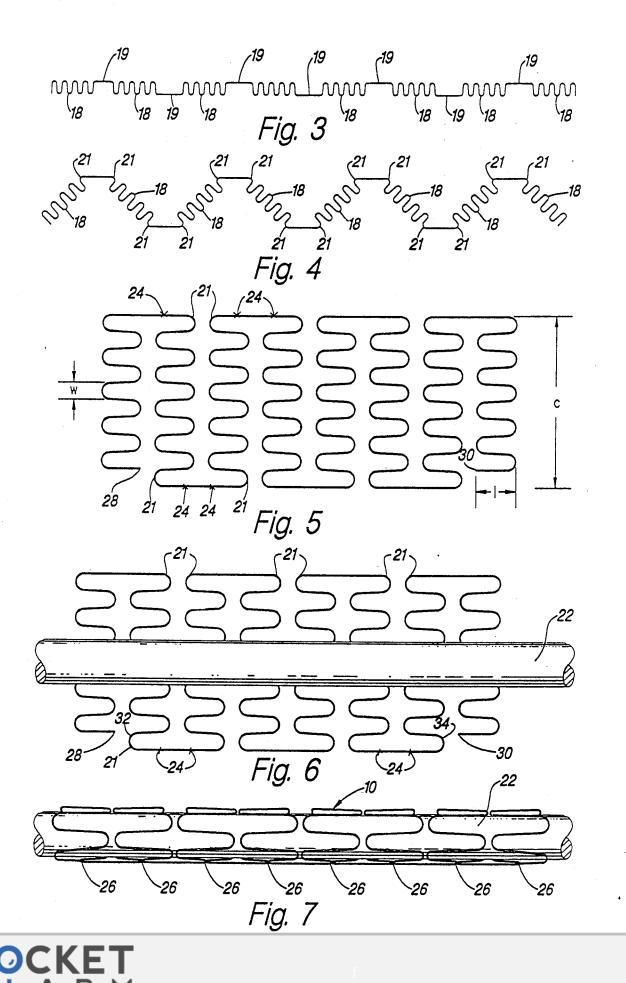


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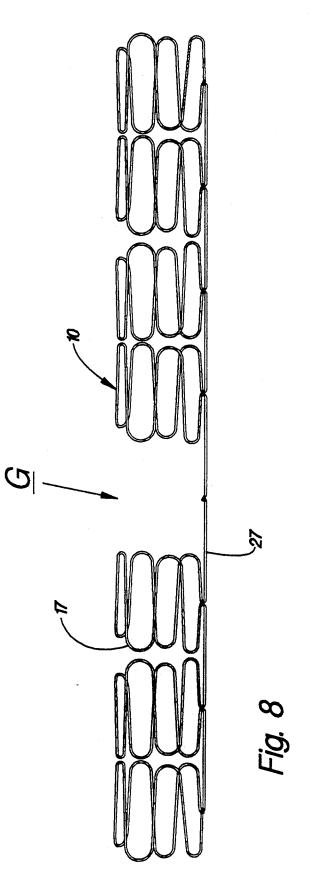
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