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**Laguna et al.**

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(54) **BALLOON CATHETER AND METHOD OF MOUNTING SAME**

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(52) **U.S. Cl.** ..... **604/96.01**

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604/103.12, 912, 915

See application file for complete search history.

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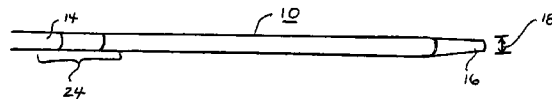
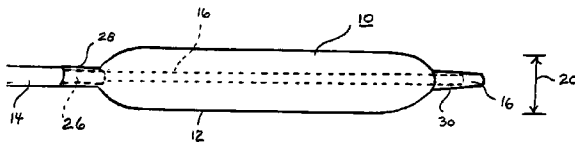
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(57) **ABSTRACT**

The present invention provides improved methods for forming and mounting a sleeve on a catheter shaft in order to form a distensible balloon catheter. The balloon is formed from a distensible sleeve that is treated to render one or both of its ends essentially non-distensible. The balloon is mounted on the catheter shaft by the non-distensible ends, without compromising the distensible operative portion of the balloon. The balloon may also be mounted using non-distensible tape or similar means to achieve a similar result.

**19 Claims, 5 Drawing Sheets**



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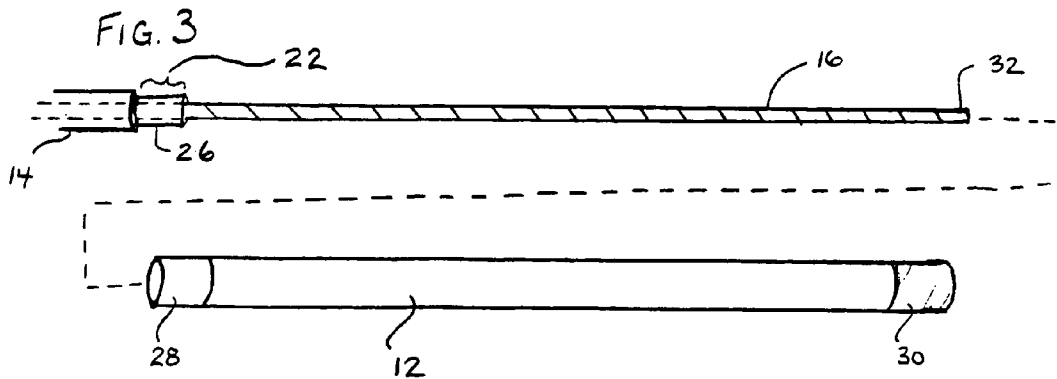
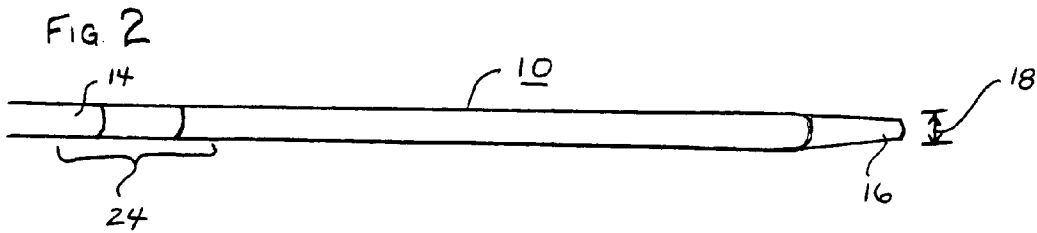
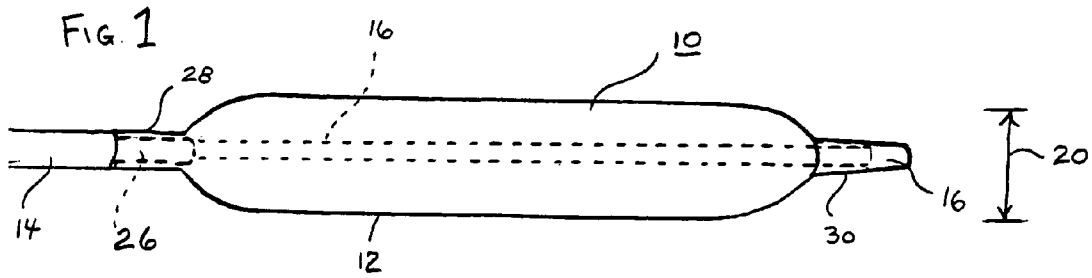


FIG. 4

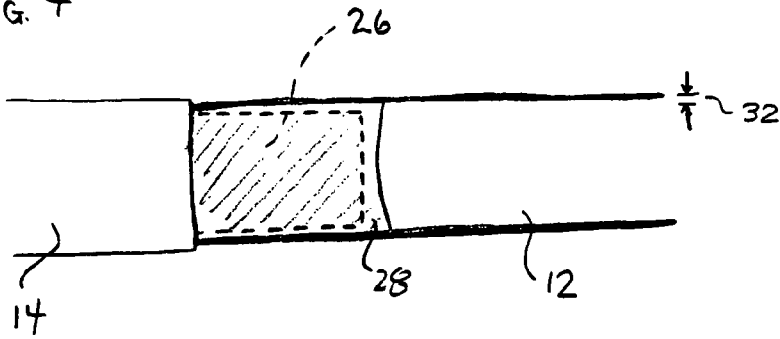


FIG. 5

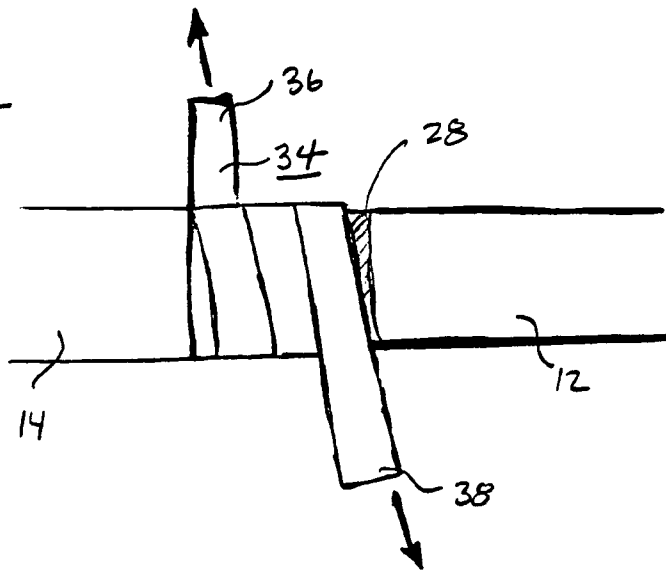


FIG. 6

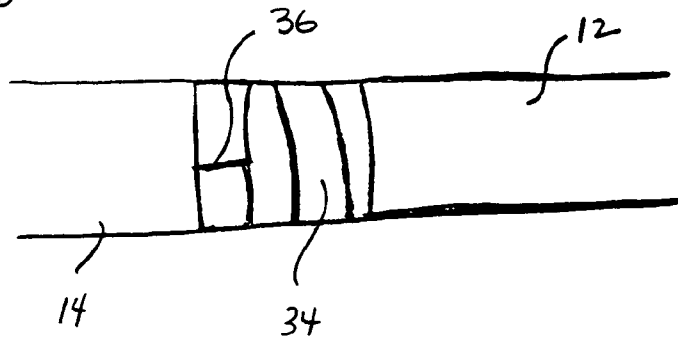


FIG. 7

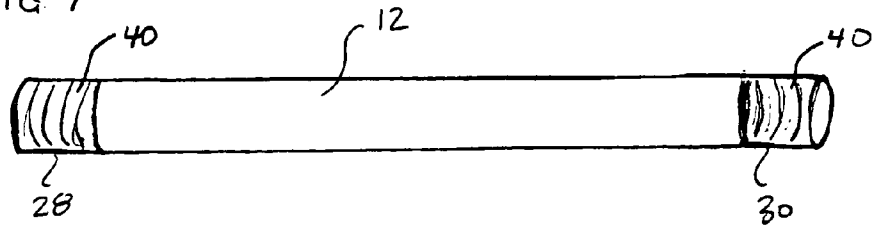


FIG. 8

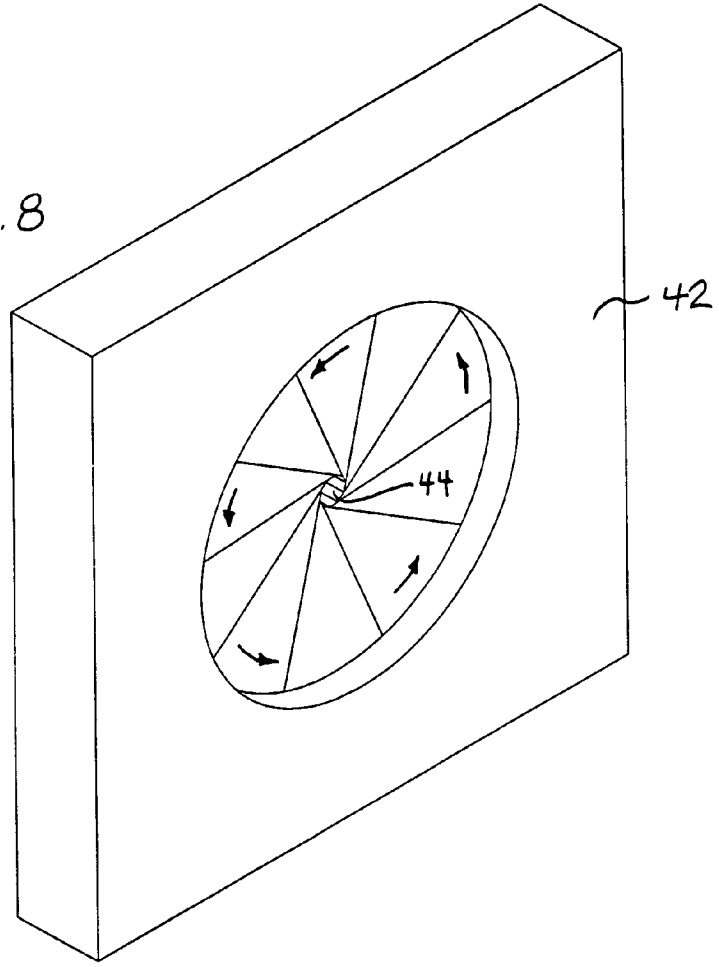
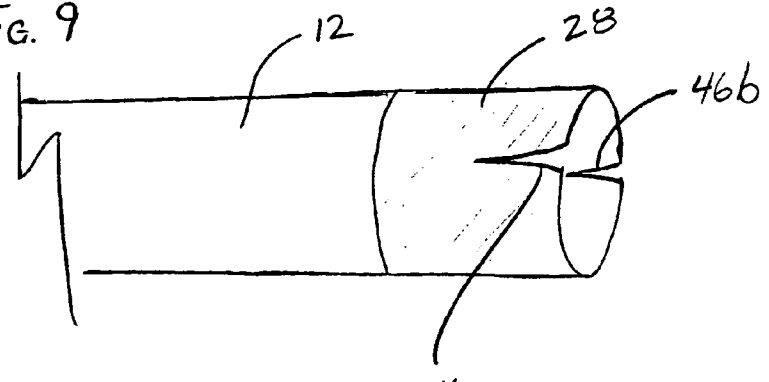


FIG. 9



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