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(54) **ENHANCED CATHETER WITH ALIGNMENT MEANS**

part of application No. 09/312,529, filed on May 14, 1999, now Pat. No. 6,394,995.

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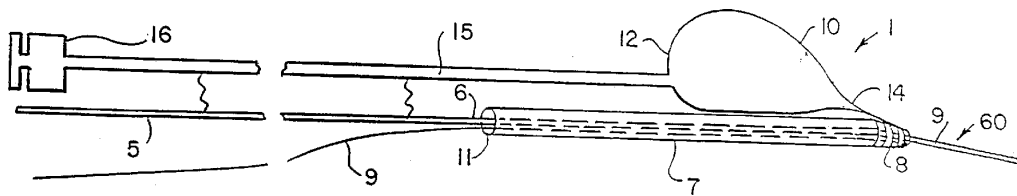
(57) **ABSTRACT**

A balloon dilatation system is comprised of an elongated flexible advancement member which terminates in a tubular tracking member slidable over a guidewire. An inflatable balloon has proximal and distal ends, the proximal end communicating with an inflation channel, and the distal end attaching to the tracking member. The balloon portion is coextensive with but not attached to the advancement member. An alignment member aligns the advancement member and the inflation channel. Other embodiments relate to delivery of stents or other medical instrumentalities.

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Related U.S. Application Data

(63) Continuation of application No. 09/629,768, filed on Jul. 31, 2000, which is a continuation-in-part of application No. 09/454,255, filed on Dec. 2, 1999, now Pat. No. 6,447,501, which is a continuation-in-



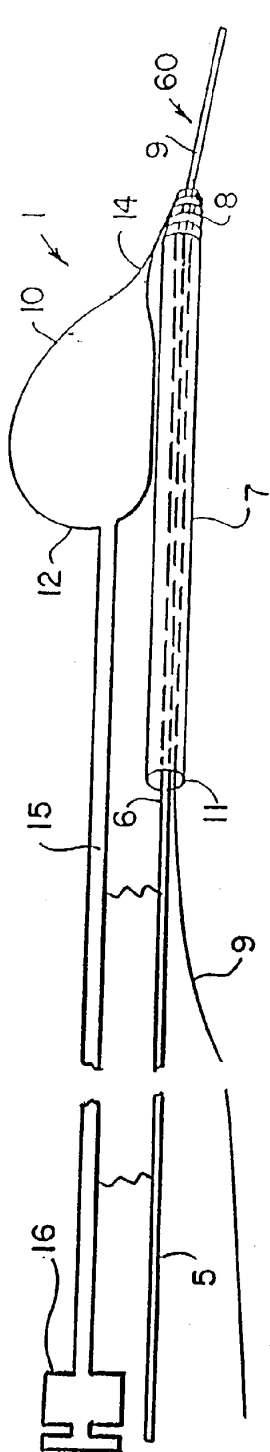


FIG. 1

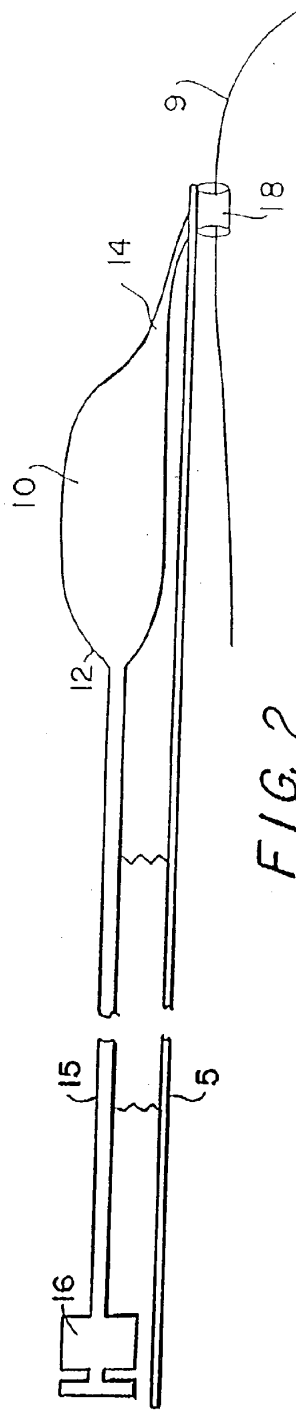


FIG. 2

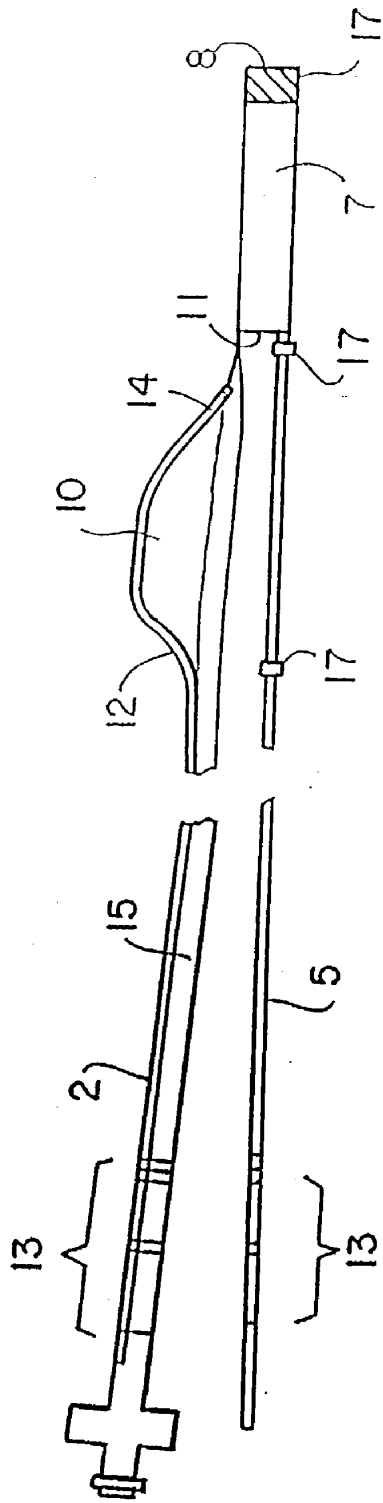


FIG. 3

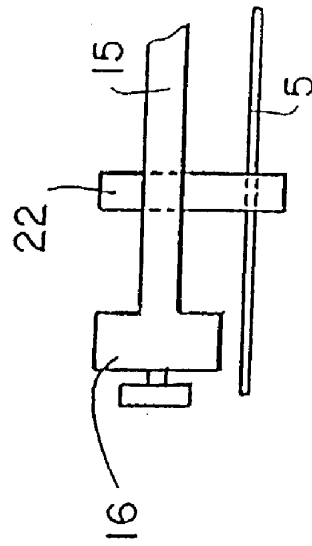


FIG. 5

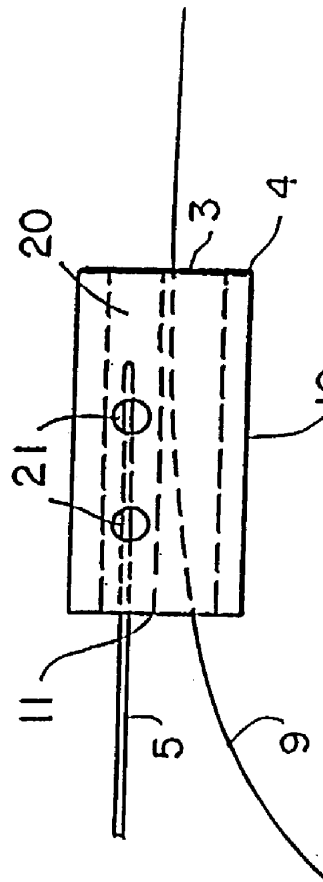


FIG. 4

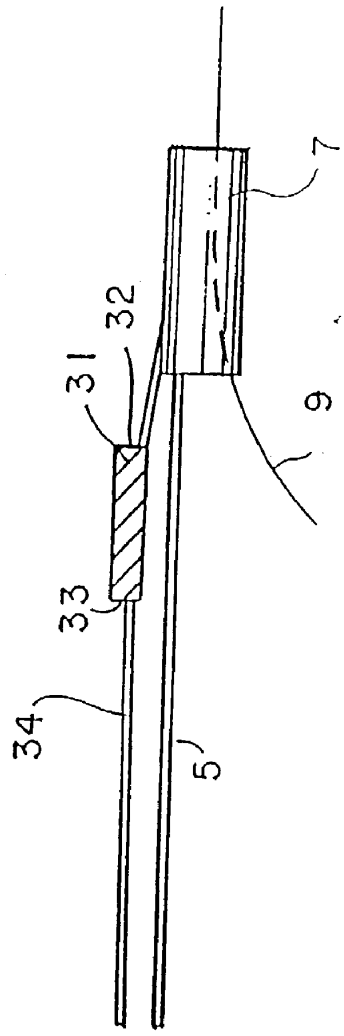


FIG. 8

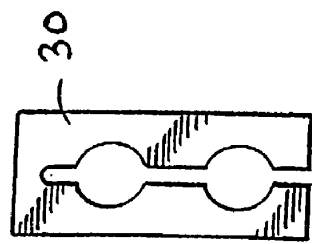


FIG. 6

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