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Sauro et al.

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(54) **OFFSET CATHETER**

(75) Inventors: **Dennis M. Sauro**, Glenmore, PA (US); **William T. Fisher**, Shwenksville, PA (US)

(73) Assignee: **The Spectranetics Corporation**, Colorado Springs, CO (US)

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(52) **U.S. Cl.**

CPC ***A61B 18/24*** (2013.01); ***A61M 25/0068*** (2013.01); ***A61M 25/0074*** (2013.01); *A61M 25/007* (2013.01)

(58) **Field of Classification Search**

None

See application file for complete search history.

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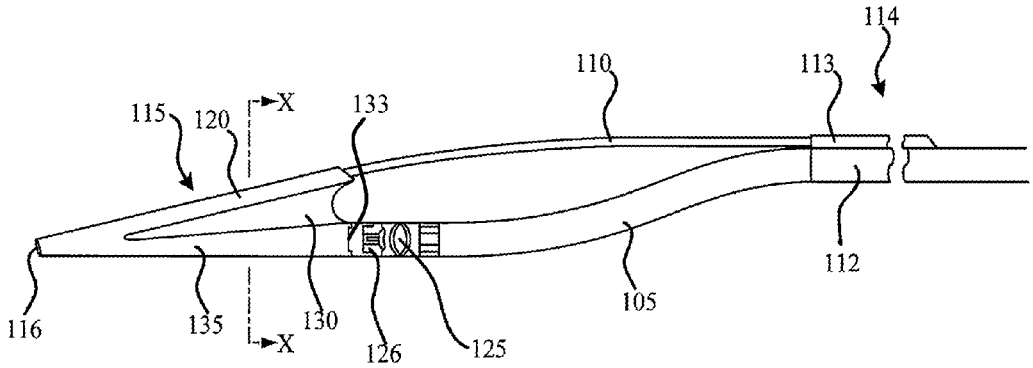
Primary Examiner — Lynsey Crandall

(74) *Attorney, Agent, or Firm* — Faegre Baker & Daniels LLP

(57) **ABSTRACT**

Various embodiments of an offset catheter are provided. In some embodiments, an offset catheter includes a guidewire tube and a catheter coupled with an elastic and/or compressible rib. The compressible rib provides an offset or separation between the catheter and the guidewire tube in its resting state. The rib has an initial resting state, but may be forced into a compressed state. When released from the compressed state, the rib returns to its resting state. An offset catheter may be compressed and slid through a sheath. When the offset catheter emerges from the sheath, the distal tip will return to its resting state providing an operation offset.

16 Claims, 10 Drawing Sheets