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Sevensma

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(54) **STEERABLE CATHETERS**

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See application file for complete search history.

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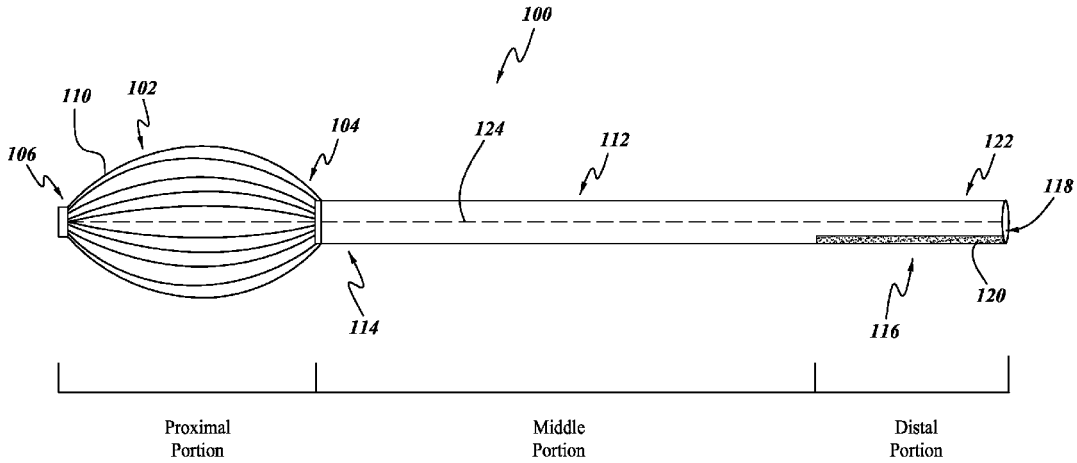
(57) **ABSTRACT**

Embodiments of steerable catheters are disclosed. The catheters may include a plurality of generally arcuate-shaped struts connected at proximal and distal ends of a handle. The handle is connected to a tubular portion at a distal end of the handle. The tubular portion includes a resilient component positioned near a distal tip of the tubular portion. The catheter includes a pull wire fixed to a point at or near the distal tip of the tubular portion. Upon manual compression of the handle, the struts are squeezed together, lengthening the handle, and extending the pull wire proximally. The proximal extension of the pull wire can cause the distal tip of the catheter to deflect. The catheter can be rotated greater than 360° around a longitudinal axis. The compressible handle can allow a user of the catheter tactile feedback and control over navigation of the catheter.

16 Claims, 8 Drawing Sheets