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(54) **METHOD OF CONTROLLED RELEASE OF A PERCUTANEOUS REPLACEMENT HEART VALVE**

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(71) Applicant: **Colibri Heart Valve LLC**, Broomfield, CO (US)

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(72) Inventors: **David Paniagua**, Houston, TX (US); **R. David Fish**, Houston, TX (US)

(73) Assignee: **Colibri Heart Valve LLC**, Broomfield, CO (US)

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Primary Examiner — Thomas J Sweet

Assistant Examiner — Cheryl Miller

(74) *Attorney, Agent, or Firm* — Fox Rothschild LLP

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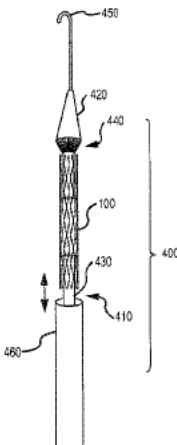
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(57) **ABSTRACT**

A method of making a replacement heart valve device whereby a fragment of biocompatible tissue material is treated and soaked in one or more alcohol solutions and a solution of glutaraldehyde. The dried biocompatible tissue material is folded and rehydrated in such a way that forms a two- or three-leaflet/cusp valve without affixing of separate cusps or leaflets or cutting slits into the biocompatible tissue material to form the cusps or leaflets. After the biocompatible tissue material is folded, it is affixed at one or more points on the outer surface to the inner cavity or a stent.

4 Claims, 12 Drawing Sheets



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