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Related U.S. Application Data

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- (51) Int. Cl. A61F 2/24 (2006.01)
- (52) U.S. Cl. 623/2.14; 623/1.24

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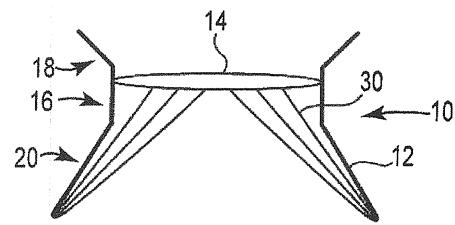
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Primary Examiner — Christopher D Koharski Assistant Examiner — Rebecca Straszheim

(57) ABSTRACT

A stented valve of two or more leaflets made of pericardium or other material having a relatively thin profile at the annulus. The leaflet surfaces are attached via chords to a stent frame, where the chords are positioned to mimic the native valve anatomy and functionality. In particular, the valves of one exemplary embodiment of the invention are sized to replace a mitral valve and therefore the chords are arranged to prevent prolapse of the leaflets into the atrium. The stented valve has a relatively short height at its annulus due to the positioning of the chords. In addition, the stented valve is capable of being crimped to a small enough size that it can be delivered to the implantation site via transcatheter delivery systems and methods.

15 Claims, 3 Drawing Sheets



NORRED EXHIBIT 2346 - Page 1 Medtronic, Inc., Medtronic Vascul & Medtronic Corevalve, LLC v. Troy R. Norred, MD Case IPR2014-00395



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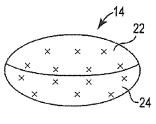


Fig. 1

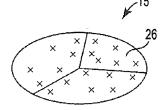


Fig. 2

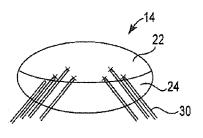


Fig. 3

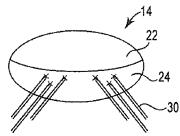


Fig. 4

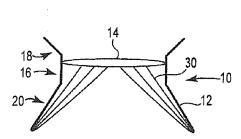


Fig. 5

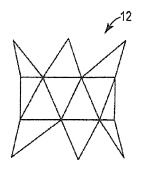
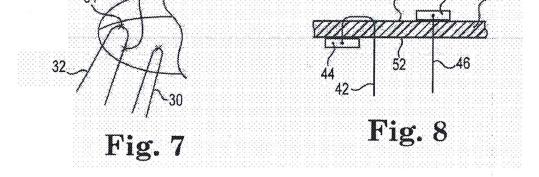
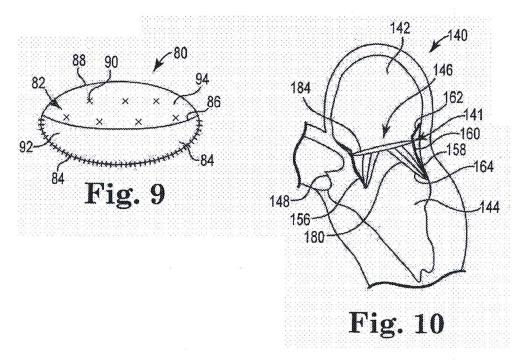


Fig. 6





Page 4

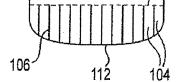


Fig. 11

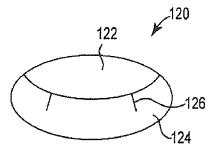


Fig. 12

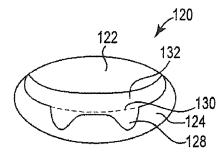


Fig. 13

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