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(54) **STENTED HEART VALVE DEVICES AND METHODS FOR ATRIOVENTRICULAR VALVE REPLACEMENT**

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USPC 623/1.37, 1.27, 1.16, 1.35
See application file for complete search history.

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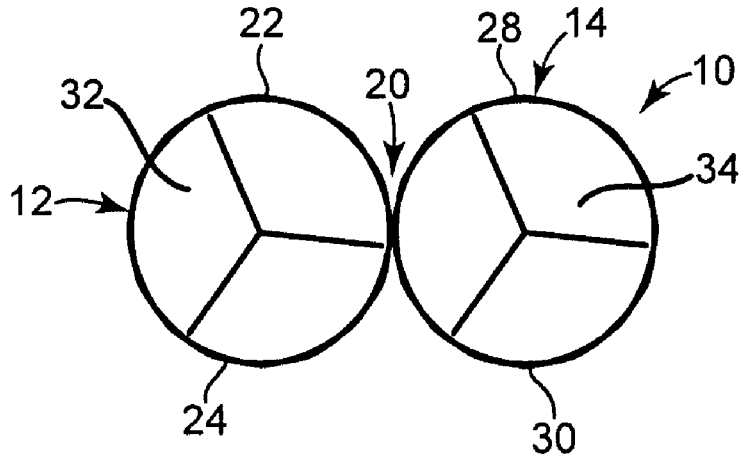
(57) **ABSTRACT**

A compressible and expandable stent assembly for implantation in a body lumen such as a mitral valve, the stent assembly including at least one stent barrel that is shaped and sized so that it allows for normal operation of adjacent heart structures. One or more stent barrels can be included in the stent assembly, where one or more of the stent barrels can include a cylinder with a tapered edge.

14 Claims, 6 Drawing Sheets