

CLAIMS

What is claimed is:

1. A valve repair device for repairing a native valve of a patient, the valve repair device comprising:
 - a coaption element;
 - a pair of paddles connected to the coaption element, wherein the paddles are movable between an open position and a closed position; and
 - a cover that at least partially surrounds the coaption element;wherein at least a portion of the cover is closed around the coaption element by alternating in and out stitches; and
wherein the stitches are substantially unexposed when the cover is closed around the coaption element.
2. The valve repair device of claim 1, where in the coaption element is formed from a folded strip of material.
3. The valve repair device of claim 1, wherein the coaption element has a rounded shape.
- ~~4. The valve repair device of any of claims 1-3, wherein the stitches are substantially unexposed when the cover is closed around the coaption element.~~
- ~~54.~~ The valve repair device of any of claims 1-~~43~~, wherein the cover comprises a top piece and a bottom piece, the top and bottom pieces each having a first side and a second side.
- ~~65.~~ The valve repair device of claim ~~54~~, wherein the first side of the bottom piece is at least partially secured to the second side of the top piece by the alternating in and out stitches.
- ~~76.~~ The valve repair device of claim ~~54~~, wherein the second side of the bottom piece is at least partially secured to the first side of the top piece by the alternating in and out stitches.

~~87.~~ The valve repair of claim ~~54~~, further comprising a collar connected to the coaption element, wherein the bottom piece covers the collar.

~~98.~~ The valve repair device of any of claims 1-~~87~~, wherein the cover is entirely closed by the alternating in and out stitch.

~~109.~~ The valve repair device of any of claims 1-~~98~~, wherein the cover is at least partially closed by a stitch that is not an alternating in and out stitch.

~~11. A valve repair device for repairing a native valve of a patient, the valve repair device comprising:~~

~~a pair of anchors, wherein the pair of anchors are movable between an open position and a closed position; and~~
~~—— a cover that at least partially surrounds at least one anchor of the pair of anchors;~~
~~—— wherein at least a portion of the cover is closed around the at least one anchor by alternating in and out stitches.~~

~~12. The valve repair device of claim 11, wherein each anchor of the pair of anchors comprise a strip of woven material.~~

~~13. The valve repair device of any of claims 11-12, wherein each anchor of the pair of anchors comprises a metal frame.~~

~~14. The valve repair device of any of claims 11-13, wherein the stitches are substantially unexposed when the cover is closed around the at least one anchor.~~

~~15. The valve repair device of any of claims 11-14, wherein the cover has a first side and a second side, wherein the alternating in any out stitch extends between the first side and the second side.~~

~~16. The valve repair device of any of claims 11-15, wherein the at least one anchor comprises a paddle having an inner paddle portion and an outer paddle portion that is extendable away from the inner paddle portion, and wherein the cover includes an outer~~

~~paddle covering portion that covers the outer paddle portion and an inner paddle covering portion that covers the inner paddle portion.~~

~~17. The valve repair device of any of claims 11-16, wherein the cover is entirely closed by the alternating in and out stitch.~~

~~18. The valve repair device of any of claims 11-17, further comprising a coaption element.~~

~~19~~10. A valve repair device for repairing a native valve of a patient, the valve repair device comprising:

a coaption element;

a pair of paddles connected to the coaption element, wherein the paddles are movable between an open position and a closed position; and

a cover that at least partially surrounds the coaption element and at least partially surrounds the at least one of the pair of paddles;

wherein at least a portion of the cover is closed around the coaption element by alternating in and out stitches;

wherein at least a portion of the cover is closed around the at least one paddle by alternating in and out stitches; and

wherein the stitches are substantially unexposed when the cover is closed around the coaption element.

~~20~~11. The valve repair device of claim ~~19~~10, where in the coaption element is formed from a folded strip of material.

~~21~~12. The valve repair device of claim ~~19~~10, wherein the coaption element has a rounded shape.

~~22. The valve repair device of any of claims 19-21, wherein the stitches are substantially unexposed when the cover is closed around the coaption element.~~

~~23~~13. The valve repair device of any of claims ~~19-22~~10-12, wherein the cover comprises a top piece and a bottom piece, the top and bottom pieces each having a first side and a second side.

~~24~~14. The valve repair device of any of claims ~~19-24~~10-13, wherein the cover is at least partially closed by a stitch that is not an alternating in and out stitch.

~~25~~15. The valve repair device of any of claims ~~19-24~~10-14, wherein the each of the paddles comprise a strip of woven material.

~~26~~16. The valve repair device of any of claims ~~19-25~~10-15, wherein each of the paddles comprises a metal frame.

~~27~~17. The valve repair device of any of claims ~~19-26~~10-16, wherein the stitches are substantially unexposed when the cover is closed around the at least one paddle.

~~28~~18. The valve repair device of any of claims ~~19-27~~10-17, wherein the at least one paddle comprises an inner paddle portion and an outer paddle portion that is extendable away from the inner paddle portion, and wherein the cover includes an outer paddle covering portion that covers the outer paddle portion and an inner paddle covering portion that covers the inner paddle portion.

~~29. A valve repair device for repairing a native valve of a patient, the valve repair device comprising:~~

~~——— a coaption element;~~

~~——— a pair of paddles connected to the coaption element, wherein the pair of paddles are movable between an open position and a closed position; and~~

~~——— a cover that at least partially surrounds at least one paddle of the pair of paddles;~~

~~——— wherein at least a portion of the cover is closed around the at least one paddle by alternating in and out stitches.~~

~~30. The valve repair device of claim 29, wherein each paddle of the pair paddles comprise a strip of woven material.~~

~~31. The valve repair device of any of claims 29-30, wherein each paddle of the pair of paddles comprises a metal frame.~~

~~32. The valve repair device of any of claims 29-31, wherein the stitches are substantially unexposed when the cover is closed around the at least one paddle.~~

~~33. The valve repair device of any of claims 29-32, wherein the cover has a first side and a second side, wherein the alternating in and out stitch extends between the first side and the second side.~~

~~34. The valve repair device of any of claims 29-33, wherein the at least one paddle comprises an inner paddle portion and an outer paddle portion that is extendable away from the inner paddle portion, and wherein the cover includes an outer paddle covering portion that covers the outer paddle portion and an inner paddle covering portion that covers the inner paddle portion.~~

~~35. The valve repair device of any of claims 29-34, wherein the cover is entirely closed by the alternating in and out stitch.~~

~~36. The valve repair device of any of claims 29-34, wherein the cover is at least partially closed by a stitch that is not an alternating in and out stitch.~~