

openings, and/or within the lumen of the patent foramen ovale. The attaching means **116** are preferably on frame **114**, but can be placed at any suitable location on embolic filter device **100**. Once in place, embolic filtering device **110** effectively deters the passage of emboli from the right atrium to the left atrium via the patent foramen ovale. Embolic filter device may be delivered either percutaneously, surgically, or via a catheter, depending on the area to be treated.

[**0055**] The invention has been described through a preferred embodiment. However, those of ordinary skill will recognize that various modifications can be made without departing from the scope of the invention as defined by the claims.

1. An embolic filtering device, comprising:

a frame, wherein said frame comprises at least one base and at least two arms coupled to said base, and further wherein each of said at least two arms comprise at least one anchor extending laterally from said arms; and

a mesh, wherein said mesh is coupled to said frame.

2. The embolic filtering device of claim 1, comprising a first base and a second base, wherein said at least two arms connect said first base to said second base.

3. The embolic filtering device of claim 1 or 2, wherein said at least two arms are positioned opposite one another.

4. The embolic filtering device of claim 1 or 2, wherein said at least two arms are biased apart from another.

5. The embolic filtering device of claim 1 or 2, wherein the length of said frame is elongated when said at least two arms are compressed perpendicularly to the longitudinal axis of said frame.

6. The embolic filtering device of claim 1 or 2, wherein said at least one anchor is pliable.

7. The embolic filtering device of claim 1 or 2, wherein said at least anchor is rigid.

8. The embolic filtering device of claim 1 or 2, wherein said at least one anchor is arcuate.

9. The embolic filtering device of claim 1 or 2, wherein at least one anchor is linear.

10. The embolic filtering device of claim 1 or 2, wherein at least a portion of said frame is comprised of a radiopaque material.

11. The embolic filtering device of claim 10, wherein said radiopaque material is tantalum.

12. The embolic filtering device of claim 1 or 2, said frame and said mesh are comprised of at least one of metal, fabric, and polymer.

13. The embolic filtering device of claim 12, wherein said metal is a shape memory metal.

14. The embolic filtering device of claim 13, wherein said shape memory metal is nitinol.

15. The embolic filtering device of claim 11, wherein said metal is a non-shape memory metal.

16. The embolic filtering device of claim 14, wherein said non-shape memory metal

is selected from the group consisting of elgiloy, cobalt chromium, stainless steel,

17. The embolic filtering device of claim 1 or 2, wherein said device is collapsible into a catheter and capable of expanding to a relaxed state as said device is released from said catheter.

18. The embolic filtering device of claim 1 or 2, wherein a first portion of said mesh is secured by a first fastener, a

second portion of the mesh overlaps said first portion of said mesh and is secured by a second fastener, and a third portion of said mesh overlaps said first and second portions of said mesh and is secured by a third fastener

19. The embolic filtering device of claim 1 or 2, wherein said mesh is coupled to at least one of said bases.

20. The embolic filtering device of claim 18, wherein one of said first and second base is secured to said third fastener.

21. The embolic filtering device of claim 1 or 2, wherein said mesh is at least partially disposed between the two arms of said frame.

22. The embolic filtering device of claim 1 or 2, wherein said mesh is at least partially disposed between said first base and said second base.

23. The embolic filtering device of claim 1 or 2, wherein said at least one base comprises a collar, the lumen of said collar being aligned along a common axis.

24. The embolic filtering device of claim 18, wherein said fasteners are collars, the lumen of said collars being aligned along a common axis.

25. The embolic filtering device of claim 23, wherein a guide wire is insertable through the lumen of said collars.

26. The embolic filtering device of claim 24, wherein a guide wire is insertable through the lumen of said collars.

27. The embolic filtering device of claim 1 or 2, wherein said embolic filtering device is deliverable to within, proximate to, and/or adjacent to the passage between a venous blood pool and an arterial blood pool.

28. The embolic filtering device of claim 27, wherein said passage is a passage defined by a septal defect.

29. The embolic filtering device of claim 28, wherein said septal defect is a patent foramen ovale.

32. The embolic filtering device of claim 18, wherein at least a portion of said first fastener, second fastener, and/or said third fastener is radiopaque.

33. The embolic filtering device of claim 1, wherein said mesh is composed of foam.

34. The embolic filtering device of claim 1, wherein at least one of frame and/or said mesh are coated with an anticoagulant.

35. The embolic filtering device of claim 1, wherein at least one of said frame and mesh are coated with at least one of thrombin, collagen, hyluron or a host growth factor.

36. The mesh of claim 1 or 2, wherein said mesh if formed of a plurality strands, the density of said strands being sufficient to prevent the passage of emboli through said mesh.

37. The embolic filtering device of claim 1 or 2, wherein said at least one base is attachable to a delivery device.

39. The embolic filtering device of claim 1 or 2, comprising a plug disposed within the interior of said mesh.

40. The embolic filtering device of claim 39, wherein is comprised of at least one of collagen, fabric, an adhesive, polymer, or foam.

41. The embolic filtering device of claim 1 or 2, wherein said mesh comprises a first diameter portion and a second diameter portion, said second diameter portion being disposed within said first diameter portion.

41. An embolic filtering device, comprising:

a frame,

a mesh, said mesh comprised of a plurality of braided strands, wherein the density of said strands is sufficient to prevent the passage of emboli through said mesh.