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**Denardo et al.**

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(54) **INTRAVASCULAR FLOW MODIFIER AND REINFORCEMENT DEVICE**

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**Related U.S. Application Data**

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(52) **U.S. Cl.** ..... **606/200; 623/1.15**

(58) **Field of Search** ..... 606/191-198, 606/108; 623/1.1-1.22; 600/1-6

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(57) **ABSTRACT**

An intravascular flow modifier and vascular reinforcement for treatment of aneurysms is formed of one or more loops of wire of resilient material formed into a series of transverse loops and longitudinal connecting sections to configure an essentially cylindrical reinforcement device that still allows, if desired, access to the neck of an aneurysm for insertion of embolic coils and the like. The proximal and distal regions of the sinusoidal loops may be more tightly coiled than the intermediate regions of the loops, or may have a larger diameter than the intermediate regions. The intravascular flow modifier and vascular reinforcement device can be provided with an outer covering that can be formed as a fiber, and can be woven, or can be formed as a ribbon wound about the intravascular flow modifier and vascular reinforcement device. The wire of resilient material can also be coated with a hydrophilic material. One or more round or oval intermediate loops extending radially outward may also be provided. An apparatus for removing clots may also be formed from one or more loops of wire of resilient material in a hollow conical shape non-detachably joined to a deployment device, to trap and hold clots within a vessel.

**2 Claims, 5 Drawing Sheets**

